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ANALYTICAL REPORT

Magna Metals

Lot #: H7D110232

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SEVERN TRENT LABORATORIES, INC.

Jamie A. McKinney
Project Manager

April 23, 2007

ANALYTICAL METHODS SUMMARY

H7D110232

PARAMETER	ANALYTICAL METHOD
Volatile Organics by TO15	EPA-2 TO-15

References:

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H7D110232

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
JTPG3	001	SV-11(S.S)	04/05/07	16:34
JTPHA	002	SV-11(A.A)	04/05/07	16:07
JTPHC	003	SV-10(A.A)	04/05/07	16:12
JTPHF	004	SV-12(S.S)	04/05/07	16:38
JTPHX	005	SV-12(A.A)	04/05/07	18:15
JTPH1	006	DUP(S.S)	04/05/07	17:06
JTPH5	007	SV-13(S.S)	04/05/07	17:06
JTPH7	008	SV-13(A.A)	04/05/07	17:10
JTPH9	009	SV-14(S.S)	04/05/07	17:28
JTPJE	010	SV-14(A.A)	04/05/07	17:20
JTPJG	011	SV-15(S.S)	04/05/07	16:56
JTPJH	012	SV-15(A.A)	04/05/07	16:55
JTPJM	013	OUTDOOR 1 (A.A)	04/05/07	17:40
JTPJR	014	OUTDOOR 2 (A.A)	04/05/07	18:10

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
H7D110232

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

The container label for sample SV-12 (A.A) was received labeled as SV-11 (A.A).

For sample SV-14 (A.A), the chain of custody lists the can ID as 1287, the correct ID should be 12587. Sample Outdoor 1 (A.A), the chain of custody listed the Can ID as1287, the correct ID should be 04333.

Quality Control and Data Interpretation

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

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. The laboratory standard operating procedure allows up to four analytes in the calibration verification to be ≤40% difference from the initial calibration. The calibration verification analyzed on 04/16/07 exhibited a %difference of >30% but ≤40% for benzene.

Although benzene is flagged as being outside recovery limits in the laboratory control sample for batch 7107200, the laboratory control sample is in control. The standard operating procedure allows for two nonpolar analyte recoveries between 60% and 140% and two polar analyte recoveries between 45% and 155%.

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, 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, 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

AKRF-White Plains

Client Sample ID: SV-11(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 001 **Work Order #** JTPG31AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/16/07
Prep Batch #.....: 7107200
Dilution Factor.: 20 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	1.6	ND	7.3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.6	ND	11
Ethylbenzene	ND	1.6	ND	6.9
Trichlorofluoromethane	ND	1.6	ND	9.0
n-Heptane	ND	4.0	ND	16
n-Hexane	**24**	**4.0**	**84**	**14**
2,2,4-Trimethylpentane	ND	4.0	ND	19
Benzene	ND	1.6	ND	5.1
1,1,2,2-Tetrachloroethane	ND	1.6	ND	11
Tetrachloroethene	ND	1.6	ND	11
Toluene	**120**	**1.6**	**450**	**6.0**
1,1,1-Trichloroethane	ND	1.6	ND	8.7
1,1,2-Trichloroethane	ND	1.6	ND	8.7
Trichloroethene	**220**	**0.80**	**1200**	**4.3**
1,3,5-Trimethylbenzene	ND	1.6	ND	7.9
Vinyl chloride	ND	1.6	ND	4.1
o-Xylene	ND	1.6	ND	6.9
Methyl tert-butyl ether	ND	8.0	ND	29
m-Xylene & p-Xylene	**3.7**	**1.6**	**16**	**6.9**
Bromodichloromethane	ND	1.6	ND	11
1,2-Dibromoethane (EDB)	ND	1.6	ND	12
Vinyl bromide	ND	1.6	ND	7.0
Bromoform	ND	1.6	ND	17
Bromomethane	ND	1.6	ND	6.2
1,3-Butadiene	ND	3.2	ND	7.1
4-Ethyltoluene	ND	3.2	ND	16
Carbon tetrachloride	ND	0.80	ND	5.0
Dibromochloromethane	ND	1.6	ND	14
Chloroethane	ND	1.6	ND	4.2
Chloroform	ND	1.6	ND	7.8
3-Chloropropene	ND	1.6	ND	5.0
Cyclohexane	**50**	**4.0**	**170**	**14**
Dichlorodifluoromethane	ND	1.6	ND	7.9
1,1-Dichloroethane	ND	1.6	ND	6.5
1,2-Dichloroethane	ND	1.6	ND	6.5
1,1-Dichloroethene	ND	1.6	ND	6.3
cis-1,2-Dichloroethene	ND	1.6	ND	6.3
trans-1,2-Dichloroethene	ND	1.6	ND	6.3
1,2-Dichloropropane	ND	1.6	ND	7.4

AKRF-White Plains

Client Sample ID: SV-11(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 001 **Work Order #** JTPG31AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	1.6	ND	7.3

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	102	70 - 130
Toluene-d8	102	70 - 130
4-Bromofluorobenzene	102	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

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AKRF-White Plains

Client Sample ID: SV-11(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 002 **Work Order #** JTPHA1AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7107200
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	**0.11**	**0.080**	**0.49**	**0.35**
Trichlorofluoromethane	**0.23**	**0.080**	**1.3**	**0.45**
n-Heptane	**0.40**	**0.20**	**1.7**	**0.82**
n-Hexane	ND	0.20	ND	0.70
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.17**	**0.080**	**0.55**	**0.26**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**0.96**	**0.080**	**3.6**	**0.30**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	**0.41**	**0.040**	**2.2**	**0.21**
1,3,5-Trimethylbenzene	**0.23**	**0.080**	**1.2**	**0.39**
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	**0.14**	**0.080**	**0.60**	**0.35**
Methyl tert-butyl ether	ND	0.40	ND	1.4
m-Xylene & p-Xylene	**0.33**	**0.080**	**1.4**	**0.35**
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	**0.084**	**0.040**	**0.53**	**0.25**
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	ND	0.20	ND	0.69
Dichlorodifluoromethane	**0.47**	**0.080**	**2.3**	**0.40**
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37

AKRF-White Plains

Client Sample ID: SV-11(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 002 **Work Order #** JTPHA1AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	110	70 - 130
Toluene-d8	104	70 - 130
4-Bromofluorobenzene	102	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

AKRF-White Plains

Client Sample ID: SV-10(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 003 **Work Order #** JTPHC1AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7107200
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	**0.093**	**0.080**	**0.41**	**0.35**
Trichlorofluoromethane	**0.26**	**0.080**	**1.4**	**0.45**
n-Heptane	ND	0.20	ND	0.82
n-Hexane	ND	0.20	ND	0.70
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.18**	**0.080**	**0.57**	**0.26**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**1.0**	**0.080**	**3.8**	**0.30**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	**0.39**	**0.040**	**2.1**	**0.21**
1,3,5-Trimethylbenzene	**0.24**	**0.080**	**1.2**	**0.39**
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	**0.11**	**0.080**	**0.48**	**0.35**
Methyl tert-butyl ether	ND	0.40	ND	1.4
m-Xylene & p-Xylene	**0.30**	**0.080**	**1.3**	**0.35**
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	**0.089**	**0.040**	**0.56**	**0.25**
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	ND	0.20	ND	0.69
Dichlorodifluoromethane	**0.52**	**0.080**	**2.6**	**0.40**
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37

AKRF-White Plains

Client Sample ID: SV-10(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 003 **Work Order #** JTPHC1AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	107	70 - 130
Toluene-d8	103	70 - 130
4-Bromofluorobenzene	102	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

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AKRF-White Plains

Client Sample ID: SV-12(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 004 **Work Order #** JTPHF1AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7107200
Dilution Factor.: 1558.8 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	120	ND	570
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	120	ND	870
Ethylbenzene	ND	120	ND	540
Trichlorofluoromethane	ND	120	ND	700
n-Heptane	ND	310	ND	1300
n-Hexane	**400**	**310**	**1400**	**1100**
2,2,4-Trimethylpentane	ND	310	ND	1500
Benzene	ND	120	ND	400
1,1,2,2-Tetrachloroethane	ND	120	ND	860
Tetrachloroethene	ND	120	ND	850
Toluene	**870**	**120**	**3300**	**470**
1,1,1-Trichloroethane	ND	120	ND	680
1,1,2-Trichloroethane	ND	120	ND	680
Trichloroethene	**12000**	**62**	**66000**	**340**
1,3,5-Trimethylbenzene	ND	120	ND	610
Vinyl chloride	ND	120	ND	320
o-Xylene	ND	120	ND	540
Methyl tert-butyl ether	ND	620	ND	2200
m-Xylene & p-Xylene	ND	120	ND	540
Bromodichloromethane	ND	120	ND	840
1,2-Dibromoethane (EDB)	ND	120	ND	960
Vinyl bromide	ND	120	ND	550
Bromoform	ND	120	ND	1300
Bromomethane	ND	120	ND	480
1,3-Butadiene	ND	250	ND	550
4-Ethyltoluene	ND	250	ND	1200
Carbon tetrachloride	ND	62	ND	390
Dibromochloromethane	ND	120	ND	1100
Chloroethane	ND	120	ND	330
Chloroform	ND	120	ND	610
3-Chloropropene	ND	120	ND	390
Cyclohexane	ND	310	ND	1100
Dichlorodifluoromethane	ND	120	ND	620
1,1-Dichloroethane	ND	120	ND	500
1,2-Dichloroethane	ND	120	ND	500
1,1-Dichloroethene	ND	120	ND	490
cis-1,2-Dichloroethene	**2700**	**120**	**11000**	**490**
trans-1,2-Dichloroethene	ND	120	ND	490
1,2-Dichloropropane	ND	120	ND	580

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AKRF-White Plains

Client Sample ID: SV-12(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 004 **Work Order #** JTPHF1AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	120	ND	570

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	106	70 - 130
Toluene-d8	101	70 - 130
4-Bromofluorobenzene	97	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

AKRF-White Plains

Client Sample ID: SV-12(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 005 **Work Order #** JTPHX1AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/17/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7108057
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	**0.14**	**0.080**	**0.62**	**0.35**
Trichlorofluoromethane	**0.30**	**0.080**	**1.7**	**0.45**
n-Heptane	ND	0.20	ND	0.82
n-Hexane	ND	0.20	ND	0.70
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.22**	**0.080**	**0.71**	**0.26**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**1.1**	**0.080**	**4.0**	**0.30**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	**0.54**	**0.040**	**2.9**	**0.21**
1,3,5-Trimethylbenzene	**0.16**	**0.080**	**0.78**	**0.39**
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	**0.14**	**0.080**	**0.59**	**0.35**
Methyl tert-butyl ether	ND	0.40	ND	1.4
m-Xylene & p-Xylene	**0.43**	**0.080**	**1.9**	**0.35**
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	**0.081**	**0.040**	**0.51**	**0.25**
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	ND	0.20	ND	0.69
Dichlorodifluoromethane	**0.45**	**0.080**	**2.2**	**0.40**
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37

AKRF-White Plains

Client Sample ID: SV-12(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 005 **Work Order #** JTPHX1AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	117	70 - 130
Toluene-d8	95	70 - 130
4-Bromofluorobenzene	97	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

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AKRF-White Plains

Client Sample ID: DUP(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 006 **Work Order #** JTPH11AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/17/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7108057
Dilution Factor.: 10 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.80	ND	3.6
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.80	ND	5.6
Ethylbenzene	**1.4**	**0.80**	**6.1**	**3.5**
Trichlorofluoromethane	ND	0.80	ND	4.5
n-Heptane	**6.7**	**2.0**	**27**	**8.2**
n-Hexane	**24**	**2.0**	**86**	**7.0**
2,2,4-Trimethylpentane	ND	2.0	ND	9.3
Benzene	ND	0.80	ND	2.6
1,1,2,2-Tetrachloroethane	ND	0.80	ND	5.5
Tetrachloroethene	**0.81**	**0.80**	**5.5**	**5.4**
Toluene	**120**	**0.80**	**450**	**3.0**
1,1,1-Trichloroethane	ND	0.80	ND	4.4
1,1,2-Trichloroethane	ND	0.80	ND	4.4
Trichloroethene	**0.72**	**0.40**	**3.9**	**2.1**
1,3,5-Trimethylbenzene	ND	0.80	ND	3.9
Vinyl chloride	ND	0.80	ND	2.0
o-Xylene	**1.4**	**0.80**	**6.1**	**3.5**
Methyl tert-butyl ether	ND	4.0	ND	14
m-Xylene & p-Xylene	**3.3**	**0.80**	**14**	**3.5**
Bromodichloromethane	ND	0.80	ND	5.4
1,2-Dibromoethane (EDB)	ND	0.80	ND	6.1
Vinyl bromide	ND	0.80	ND	3.5
Bromoform	ND	0.80	ND	8.3
Bromomethane	ND	0.80	ND	3.1
1,3-Butadiene	ND	1.6	ND	3.5
4-Ethyltoluene	ND	1.6	ND	7.9
Carbon tetrachloride	ND	0.40	ND	2.5
Dibromochloromethane	ND	0.80	ND	6.8
Chloroethane	ND	0.80	ND	2.1
Chloroform	ND	0.80	ND	3.9
3-Chloropropene	ND	0.80	ND	2.5
Cyclohexane	**25**	**2.0**	**87**	**6.9**
Dichlorodifluoromethane	ND	0.80	ND	4.0
1,1-Dichloroethane	ND	0.80	ND	3.2
1,2-Dichloroethane	ND	0.80	ND	3.2
1,1-Dichloroethene	ND	0.80	ND	3.2
cis-1,2-Dichloroethene	ND	0.80	ND	3.2
trans-1,2-Dichloroethene	ND	0.80	ND	3.2
1,2-Dichloropropane	ND	0.80	ND	3.7

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Client Sample ID: DUP(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 006 **Work Order #** JTPH11AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.80	ND	3.6

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	99	70 - 130
Toluene-d8	106	70 - 130
4-Bromofluorobenzene	100	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

AKRF-White Plains

Client Sample ID: SV-13(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 007 **Work Order #** JTPH51AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/17/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7108057
Dilution Factor.: 10 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.80	ND	3.6
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.80	ND	5.6
Ethylbenzene	**2.2**	**0.80**	**9.4**	**3.5**
Trichlorofluoromethane	ND	0.80	ND	4.5
n-Heptane	**7.4**	**2.0**	**31**	**8.2**
n-Hexane	**25**	**2.0**	**88**	**7.0**
2,2,4-Trimethylpentane	ND	2.0	ND	9.3
Benzene	**0.90**	**0.80**	**2.9**	**2.6**
1,1,2,2-Tetrachloroethane	ND	0.80	ND	5.5
Tetrachloroethene	**1.2**	**0.80**	**7.8**	**5.4**
Toluene	**160**	**0.80**	**600**	**3.0**
1,1,1-Trichloroethane	ND	0.80	ND	4.4
1,1,2-Trichloroethane	ND	0.80	ND	4.4
Trichloroethene	**0.89**	**0.40**	**4.8**	**2.1**
1,3,5-Trimethylbenzene	ND	0.80	ND	3.9
Vinyl chloride	ND	0.80	ND	2.0
o-Xylene	**2.2**	**0.80**	**9.6**	**3.5**
Methyl tert-butyl ether	ND	4.0	ND	14
m-Xylene & p-Xylene	**5.2**	**0.80**	**22**	**3.5**
Bromodichloromethane	ND	0.80	ND	5.4
1,2-Dibromoethane (EDB)	ND	0.80	ND	6.1
Vinyl bromide	ND	0.80	ND	3.5
Bromoform	ND	0.80	ND	8.3
Bromomethane	ND	0.80	ND	3.1
1,3-Butadiene	ND	1.6	ND	3.5
4-Ethyltoluene	ND	1.6	ND	7.9
Carbon tetrachloride	ND	0.40	ND	2.5
Dibromochloromethane	ND	0.80	ND	6.8
Chloroethane	ND	0.80	ND	2.1
Chloroform	ND	0.80	ND	3.9
3-Chloropropene	ND	0.80	ND	2.5
Cyclohexane	**28**	**2.0**	**97**	**6.9**
Dichlorodifluoromethane	ND	0.80	ND	4.0
1,1-Dichloroethane	ND	0.80	ND	3.2
1,2-Dichloroethane	ND	0.80	ND	3.2
1,1-Dichloroethene	ND	0.80	ND	3.2
cis-1,2-Dichloroethene	ND	0.80	ND	3.2
trans-1,2-Dichloroethene	ND	0.80	ND	3.2
1,2-Dichloropropane	ND	0.80	ND	3.7

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AKRF-White Plains

Client Sample ID: SV-13(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 007 **Work Order #** JTPH51AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.80	ND	3.6

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	102	70 - 130
Toluene-d8	107	70 - 130
4-Bromofluorobenzene	101	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

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AKRF-White Plains

Client Sample ID: SV-13(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 008 **Work Order #** JTPH71AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/17/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7108057
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	**0.41**	**0.080**	**1.8**	**0.35**
Trichlorofluoromethane	**0.24**	**0.080**	**1.3**	**0.45**
n-Heptane	**4.2**	**0.20**	**17**	**0.82**
n-Hexane	**0.25**	**0.20**	**0.89**	**0.70**
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.36**	**0.080**	**1.1**	**0.26**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**8.2**	**0.080**	**31**	**0.30**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	**0.26**	**0.040**	**1.4**	**0.21**
1,3,5-Trimethylbenzene	**0.34**	**0.080**	**1.7**	**0.39**
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	**0.45**	**0.080**	**2.0**	**0.35**
Methyl tert-butyl ether	**1.7**	**0.40**	**6.0**	**1.4**
m-Xylene & p-Xylene	**1.4**	**0.080**	**5.9**	**0.35**
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	**0.075**	**0.040**	**0.47**	**0.25**
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	**0.22**	**0.080**	**1.1**	**0.39**
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	**0.94**	**0.20**	**3.3**	**0.69**
Dichlorodifluoromethane	**0.42**	**0.080**	**2.1**	**0.40**
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

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Client Sample ID: SV-13(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 008 **Work Order #** JTPH71AD **Matrix.....:** AIR

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	112	70 - 130
Toluene-d8	104	70 - 130
4-Bromofluorobenzene	98	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

AKRF-White Plains

Client Sample ID: SV-14(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 009 **Work Order #** JTPH91AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/17/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7108057
Dilution Factor.: 2 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.16	ND	0.73
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.16	ND	1.1
Ethylbenzene	ND	0.16	ND	0.69
Trichlorofluoromethane	**0.27**	**0.16**	**1.5**	**0.90**
n-Heptane	ND	0.40	ND	1.6
n-Hexane	**5.0**	**0.40**	**18**	**1.4**
2,2,4-Trimethylpentane	ND	0.40	ND	1.9
Benzene	**0.80**	**0.16**	**2.6**	**0.51**
1,1,2,2-Tetrachloroethane	ND	0.16	ND	1.1
Tetrachloroethene	ND	0.16	ND	1.1
Toluene	**1.6**	**0.16**	**6.2**	**0.60**
1,1,1-Trichloroethane	ND	0.16	ND	0.87
1,1,2-Trichloroethane	ND	0.16	ND	0.87
Trichloroethene	**0.085**	**0.080**	**0.46**	**0.43**
1,3,5-Trimethylbenzene	ND	0.16	ND	0.79
Vinyl chloride	ND	0.16	ND	0.41
o-Xylene	ND	0.16	ND	0.69
Methyl tert-butyl ether	**0.91**	**0.80**	**3.3**	**2.9**
m-Xylene & p-Xylene	ND	0.16	ND	0.69
Bromodichloromethane	ND	0.16	ND	1.1
1,2-Dibromoethane (EDB)	ND	0.16	ND	1.2
Vinyl bromide	ND	0.16	ND	0.70
Bromoform	ND	0.16	ND	1.7
Bromomethane	ND	0.16	ND	0.62
1,3-Butadiene	ND	0.32	ND	0.71
4-Ethyltoluene	ND	0.32	ND	1.6
Carbon tetrachloride	ND	0.080	ND	0.50
Dibromochloromethane	ND	0.16	ND	1.4
Chloroethane	ND	0.16	ND	0.42
Chloroform	ND	0.16	ND	0.78
3-Chloropropene	ND	0.16	ND	0.50
Cyclohexane	**5.0**	**0.40**	**17**	**1.4**
Dichlorodifluoromethane	**0.47**	**0.16**	**2.3**	**0.79**
1,1-Dichloroethane	ND	0.16	ND	0.65
1,2-Dichloroethane	ND	0.16	ND	0.65
1,1-Dichloroethene	ND	0.16	ND	0.63
cis-1,2-Dichloroethene	ND	0.16	ND	0.63
trans-1,2-Dichloroethene	ND	0.16	ND	0.63
1,2-Dichloropropane	ND	0.16	ND	0.74

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Client Sample ID: SV-14(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 009 **Work Order #** JTPH91AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.16	ND	0.73

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	102	70 - 130
Toluene-d8	105	70 - 130
4-Bromofluorobenzene	102	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

AKRF-White Plains

Client Sample ID: SV-14(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 010 **Work Order #** JTPJE1AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7107200
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	**0.73**	**0.080**	**3.2**	**0.35**
Trichlorofluoromethane	**0.40**	**0.080**	**2.2**	**0.45**
n-Heptane	**0.41**	**0.20**	**1.7**	**0.82**
n-Hexane	**0.29**	**0.20**	**1.0**	**0.70**
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.46**	**0.080**	**1.5**	**0.26**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	**0.20**	**0.080**	**1.3**	**0.54**
Toluene	**4.9**	**0.080**	**19**	**0.30**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
1,3,5-Trimethylbenzene	**0.14**	**0.080**	**0.70**	**0.39**
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	**0.64**	**0.080**	**2.8**	**0.35**
Methyl tert-butyl ether	ND	0.40	ND	1.4
m-Xylene & p-Xylene	**1.8**	**0.080**	**7.6**	**0.35**
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	**0.12**	**0.040**	**0.77**	**0.25**
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	**0.19**	**0.080**	**0.95**	**0.39**
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	**0.31**	**0.20**	**1.1**	**0.69**
Dichlorodifluoromethane	**0.72**	**0.080**	**3.6**	**0.40**
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

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Client Sample ID: SV-14(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 010 **Work Order #** JTPJE1AD **Matrix.....:** AIR

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	111	70 - 130
Toluene-d8	96	70 - 130
4-Bromofluorobenzene	98	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

AKRF-White Plains

Client Sample ID: SV-15(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 011 **Work Order #** JTPJG1AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7107200
Dilution Factor.: 2 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.16	ND	0.73
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.16	ND	1.1
Ethylbenzene	ND	0.16	ND	0.69
Trichlorofluoromethane	**0.42**	**0.16**	**2.3**	**0.90**
n-Heptane	ND	0.40	ND	1.6
n-Hexane	**7.4**	**0.40**	**26**	**1.4**
2,2,4-Trimethylpentane	ND	0.40	ND	1.9
Benzene	**0.68**	**0.16**	**2.2**	**0.51**
1,1,2,2-Tetrachloroethane	ND	0.16	ND	1.1
Tetrachloroethene	ND	0.16	ND	1.1
Toluene	**4.9**	**0.16**	**19**	**0.60**
1,1,1-Trichloroethane	ND	0.16	ND	0.87
1,1,2-Trichloroethane	ND	0.16	ND	0.87
Trichloroethene	ND	0.080	ND	0.43
1,3,5-Trimethylbenzene	ND	0.16	ND	0.79
Vinyl chloride	ND	0.16	ND	0.41
o-Xylene	ND	0.16	ND	0.69
Methyl tert-butyl ether	**1.2**	**0.80**	**4.4**	**2.9**
m-Xylene & p-Xylene	ND	0.16	ND	0.69
Bromodichloromethane	ND	0.16	ND	1.1
1,2-Dibromoethane (EDB)	ND	0.16	ND	1.2
Vinyl bromide	ND	0.16	ND	0.70
Bromoform	ND	0.16	ND	1.7
Bromomethane	ND	0.16	ND	0.62
1,3-Butadiene	ND	0.32	ND	0.71
4-Ethyltoluene	ND	0.32	ND	1.6
Carbon tetrachloride	**0.084**	**0.080**	**0.53**	**0.50**
Dibromochloromethane	ND	0.16	ND	1.4
Chloroethane	ND	0.16	ND	0.42
Chloroform	ND	0.16	ND	0.78
3-Chloropropene	ND	0.16	ND	0.50
Cyclohexane	**16**	**0.40**	**56**	**1.4**
Dichlorodifluoromethane	**0.65**	**0.16**	**3.2**	**0.79**
1,1-Dichloroethane	ND	0.16	ND	0.65
1,2-Dichloroethane	ND	0.16	ND	0.65
1,1-Dichloroethene	ND	0.16	ND	0.63
cis-1,2-Dichloroethene	ND	0.16	ND	0.63
trans-1,2-Dichloroethene	ND	0.16	ND	0.63
1,2-Dichloropropane	ND	0.16	ND	0.74

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AKRF-White Plains

Client Sample ID: SV-15(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 011 **Work Order #** JTPJG1AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.16	ND	0.73

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	108	70 - 130
Toluene-d8	95	70 - 130
4-Bromofluorobenzene	96	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

AKRF-White Plains

Client Sample ID: SV-15(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 012 **Work Order #** JTPJH1AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7107200
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	**0.45**	**0.080**	**1.9**	**0.35**
Trichlorofluoromethane	**0.24**	**0.080**	**1.4**	**0.45**
n-Heptane	**1.2**	**0.20**	**4.8**	**0.82**
n-Hexane	ND	0.20	ND	0.70
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.24**	**0.080**	**0.77**	**0.26**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	**0.090**	**0.080**	**0.61**	**0.54**
Toluene	**3.1**	**0.080**	**12**	**0.30**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
1,3,5-Trimethylbenzene	**0.14**	**0.080**	**0.71**	**0.39**
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	**0.40**	**0.080**	**1.8**	**0.35**
Methyl tert-butyl ether	ND	0.40	ND	1.4
m-Xylene & p-Xylene	**1.0**	**0.080**	**4.5**	**0.35**
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	**0.087**	**0.040**	**0.54**	**0.25**
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	**0.24**	**0.080**	**1.2**	**0.39**
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	**0.28**	**0.20**	**0.97**	**0.69**
Dichlorodifluoromethane	**0.45**	**0.080**	**2.2**	**0.40**
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37

AKRF-White Plains

Client Sample ID: SV-15(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 012 **Work Order #** JTPJH1AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	105	70 - 130
Toluene-d8	104	70 - 130
4-Bromofluorobenzene	104	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

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AKRF-White Plains

Client Sample ID: OUTDOOR 1 (A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 013 **Work Order #** JTPJM1AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7107200
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	ND	0.080	ND	0.35
Trichlorofluoromethane	**0.23**	**0.080**	**1.3**	**0.45**
n-Heptane	ND	0.20	ND	0.82
n-Hexane	ND	0.20	ND	0.70
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.15**	**0.080**	**0.48**	**0.26**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**0.26**	**0.080**	**0.97**	**0.30**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	ND	0.080	ND	0.35
Methyl tert-butyl ether	ND	0.40	ND	1.4
m-Xylene & p-Xylene	**0.096**	**0.080**	**0.42**	**0.35**
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	**0.082**	**0.040**	**0.51**	**0.25**
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	ND	0.20	ND	0.69
Dichlorodifluoromethane	**0.45**	**0.080**	**2.2**	**0.40**
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37

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Client Sample ID: OUTDOOR 1 (A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 013 **Work Order #** JTPJM1AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	108	70 - 130
Toluene-d8	103	70 - 130
4-Bromofluorobenzene	100	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

AKRF-White Plains

Client Sample ID: OUTDOOR 2 (A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 014 **Work Order #** JTPJR1AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7107200
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	ND	0.080	ND	0.35
Trichlorofluoromethane	**0.33**	**0.080**	**1.8**	**0.45**
n-Heptane	**0.23**	**0.20**	**0.94**	**0.82**
n-Hexane	**0.22**	**0.20**	**0.76**	**0.70**
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.29**	**0.080**	**0.91**	**0.26**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**0.59**	**0.080**	**2.2**	**0.30**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	ND	0.080	ND	0.35
Methyl tert-butyl ether	ND	0.40	ND	1.4
m-Xylene & p-Xylene	**0.20**	**0.080**	**0.87**	**0.35**
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	**0.11**	**0.040**	**0.66**	**0.25**
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	ND	0.20	ND	0.69
Dichlorodifluoromethane	**0.65**	**0.080**	**3.2**	**0.40**
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37

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AKRF-White Plains

Client Sample ID: OUTDOOR 2 (A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 014 **Work Order #** JTPJR1AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	107	70 - 130
Toluene-d8	98	70 - 130
4-Bromofluorobenzene	101	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

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AKRF-White Plains

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H7D170000 - 200B **Work Order #** JT2KK1AA **Matrix.....:** AIR

Date Received..: 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/16/07
Prep Batch #.....: 7107200
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	ND	0.080	ND	0.35
Trichlorofluoromethane	ND	0.080	ND	0.45
n-Heptane	ND	0.20	ND	0.82
n-Hexane	ND	0.20	ND	0.70
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	ND	0.080	ND	0.26
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	ND	0.080	ND	0.30
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	ND	0.080	ND	0.35
Methyl tert-butyl ether	ND	0.40	ND	1.4
m-Xylene & p-Xylene	ND	0.080	ND	0.35
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	ND	0.040	ND	0.25
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	ND	0.20	ND	0.69
Dichlorodifluoromethane	ND	0.080	ND	0.40
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37

AKRF-White Plains

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H7D170000 - 200B **Work Order #** JT2KK1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	106	70 - 130
Toluene-d8	99	70 - 130
4-Bromofluorobenzene	99	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

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AKRF-White Plains

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H7D170000 - 200C **Work Order #** JT2KK1AC **Matrix.....:** AIR

Date Received..: 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/16/07
Prep Batch #.....: 7107200
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY		RECOVERY LIMITS
Benzene	10.0	6.95	32	22	69	a	70 - 130
Toluene	10.0	7.36	38	28	74		70 - 130
Trichloroethene	10.0	7.85	54	42	78		70 - 130
1,1-Dichloroethene	10.0	8.62	40	34	86		70 - 130
Chlorobenzene	10.0	7.92	46	36	79		70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	101	70 - 130
Toluene-d8	101	70 - 130
4-Bromofluorobenzene	102	70 - 130

Qualifiers

a Spiked analyte recovery is outside stated control limits.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

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AKRF-White Plains

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H7D180000 - 057B **Work Order #** JT4LA1AA **Matrix.....:** AIR

Date Received..: 4/10/07
Prep Date.....: 4/17/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7108057
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	ND	0.080	ND	0.35
Trichlorofluoromethane	ND	0.080	ND	0.45
n-Heptane	ND	0.20	ND	0.82
n-Hexane	ND	0.20	ND	0.70
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	ND	0.080	ND	0.26
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	ND	0.080	ND	0.30
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	ND	0.080	ND	0.35
Methyl tert-butyl ether	ND	0.40	ND	1.4
m-Xylene & p-Xylene	ND	0.080	ND	0.35
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	ND	0.040	ND	0.25
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	ND	0.20	ND	0.69
Dichlorodifluoromethane	ND	0.080	ND	0.40
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37

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AKRF-White Plains

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H7D180000 - 057B **Work Order #** JT4LA1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	102	70 - 130
Toluene-d8	105	70 - 130
4-Bromofluorobenzene	104	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

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AKRF-White Plains

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H7D180000 - 057C **Work Order #** JT4LA1AC **Matrix.....:** AIR

Prep Date.....: 4/17/07
Prep Batch #.....: 7108057
Dilution Factor.: 1

Date Received..: 4/10/07
Analysis Date.. 4/17/07

Method..... TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Benzene	10.0	7.99	32	26	80	70 - 130
Toluene	10.0	7.88	38	30	79	70 - 130
Trichloroethene	10.0	9.18	54	49	92	70 - 130
1,1-Dichloroethene	10.0	10.2	40	41	102	70 - 130
Chlorobenzene	10.0	8.58	46	40	86	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	101	70 - 130
Toluene-d8	100	70 - 130
4-Bromofluorobenzene	102	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Sample Receipt Documentation

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

"PASSED RAD SCREEN"

Canister Samples Chain of Custody Record

H7D110232

SEVERN TRENT STL

Severn Trent Laboratories, Inc. (STL) assumes no liability with respect to the collection and shipment of these samples.

1 of 3 COCs

Client Contact Information
Company: AKRF
Address: 34 S Broadway
City/State/Zip White Plains NY 10601
Phone: 914-922-2382
FAX: 914 949-7559
Project Name: Magna Metals
Site:
PO # 40256

Project Manager: Brian Zieroff
Phone: 914-922-2382
Site Contact:
STL Contact:

Sampled By B Tepper

Analysis Turnaround Time
Standard (Specify)
Rush (Specify)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	[redacted]	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SV-11 (S.S)	4/5/07	9:34	4:34	30	3.5	K324	2165	X											
SV-11 (A.A)		8:05	4:07	30	4.5	K352	6591												
SV-10 (A.A)		9:12	4:12	28.5	7	K143	1491												
SV-12 (S.S)		8:37	4:38	30	3.5	K119	1519												
SV-12 (A.A)		10:15	5:15	30	5.5	K288	6679												
DUP (S.S)		9:01	5:06	30	4.5	K354	2040												

SV-1149

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

CUSTODY SEALS INTACT
RECEIVED AT AMBIENT TEMP
GKD 4-10-07

3 BOXES FEDX#
9303 5262 9443
9421
~~9432~~

14 CANS / 14 FLOWS / CANS

Special Instructions/QC Requirements & Comments:

TCE - detection limit of 0.25 ug/m3

Canisters Shipped by:	Date/Time:	Canisters Received by: Bryan Lawson 4-10-07 09:45
Samples Relinquished by: B Tepper	Date/Time: 4/6/07 12:00	Received by: Richard L Ford
Relinquished by: B Blackburn 4/9/07 1600	Date/Time: 4/6/07 1730	Received by: Richard L Ford

Lab Use Only — Received by: Condition:

47D110232

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

"PASSED RAD SCREEN"

Canister Samples Chain of Custody Record

SEVERN TRENT STL

Severn Trent Laboratories, Inc. (STL) assumes no liability with respect to the collection and shipment of these samples.

2 of 3 COCs

Client Contact Information
Company: AKRF
Address: 34 S Broadway
City/State/Zip White Plains NY 10601
Phone: 914-922-2352
FAX: 914-949-7558
Project Name: Magna Metals
Site:
PO# 40256

Project Manager:
Phone:
Site Contact:
STL Contact:

Sampled By

Analysis Turnaround Time
Standard (Specify)
Rush (Specify)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	[illegible]	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SV-13 (S.S)	4/5/07	9:01	5:06	28	3.5	K110	1425	X											
SV-13 (A.A)		8:53	5:10	30	5	K319	11345												
SV-14 (S.S)		9:28	5:28	30		K187	12836												
SV-14 (A.A)		9:13	5:20	30	4.5	K351	1287												
SV-15 (S.S)		9:50	4:56	30	8	K148	6574												
SV-15 (A.A)		9:28	4:55	30	6	K356	1407												

12587

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:
TCE - detection limit of 0.25 ug/m3

Canisters Shipped by:	Date/Time:	Canisters Received by: [illegible] 4-10-07 0915
Samples Relinquished by: B Tepper	Date/Time: 4/6/07 12:00	Received by: Richard L J Ma
Relinquished by: [illegible] 4/9/07 1600	Date/Time: 4/6/07 1730	Received by: Richard L J Ma

Lab Use Only — Shipper Name: — Opened by: — Condition:

H7D110232

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

"PASSED RAD SCREEN"

Canister Samples Chain of Custody Record

SEVERN TRENT STL

Severn Trent Laboratories, Inc. (STL) assumes no liability with respect to the collection and shipment of these samples.

Sampled by

3 of 3 COCs

Client Contact Information
Company: AKRF
Address: 38 S Broadway
City/State/Zip White Plains, NY 10601
Phone: 914-922-2352
FAX: 914-949-7559
Project Name: Magna Metals
Site:
PO # 40256

Project Manager: Brian Zieroff
Phone: 914-922-2382
Site Contact:
STL Contact:

Analysis Turnaround Time
Standard (Specify)
Rush (Specify)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)		Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
Outdoor 1 (A.A)	4/5/07	9:40	5:40	30	10.5	K223	0433	X											
Outdoor 2 (A.A)	4/5/07	10:09	6:10	29	5	K262	12833	X											

04333

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:
(5) 4/6/07
TCE detection limit of 0.25 ug/m3

Canisters Shipped by:	Date/Time:	Canisters Received by: [illegible] 4/10/07 09:45
Samples Relinquished by: B Teppet	Date/Time: 4/6/07 12:00	Received by: Richard L [illegible]
Relinquished by: [illegible] 4/9/07 1600	Date/Time: 4/6/07 1730	Received by: Richard L [illegible]

Lab Use Only — Storage Name: Opened by: Condition:

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: AKRF **Project:** _____ **Lot Number:** H7D110232

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:	1A, SV-12 (A.A), LABELED AS SV-11 (A.A), MATCHED BY CAN ID 1C, SV-14 (A.A), COC LIST CAN ID AS 1287, SHOULD BE 12587 1C, OUTDOOR 1 (A.A) COC LIST CAN ID AS 0433, SHOULD BE 04333
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 #: 74816 PM Instructions: _____

Sample Receiving Associate: [signature] Date: 4-10-07

QA026R18.doc, 1/30/06

Volatiles

Raw Sample Data

AKRF-White Plains

Client Sample ID: SV-11(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 001 **Work Order #** JTPG31AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/16/07
Prep Batch #.....: 7107200
Dilution Factor.: 20 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	1.6	ND	7.3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.6	ND	11
Ethylbenzene	ND	1.6	ND	6.9
Trichlorofluoromethane	ND	1.6	ND	9.0
n-Heptane	ND	4.0	ND	16
n-Hexane	**24**	**4.0**	**84**	**14**
2,2,4-Trimethylpentane	ND	4.0	ND	19
Benzene	ND	1.6	ND	5.1
1,1,2,2-Tetrachloroethane	ND	1.6	ND	11
Tetrachloroethene	ND	1.6	ND	11
Toluene	**120**	**1.6**	**450**	**6.0**
1,1,1-Trichloroethane	ND	1.6	ND	8.7
1,1,2-Trichloroethane	ND	1.6	ND	8.7
Trichloroethene	**220**	**0.80**	**1200**	**4.3**
1,3,5-Trimethylbenzene	ND	1.6	ND	7.9
Vinyl chloride	ND	1.6	ND	4.1
o-Xylene	ND	1.6	ND	6.9
Methyl tert-butyl ether	ND	8.0	ND	29
m-Xylene & p-Xylene	**3.7**	**1.6**	**16**	**6.9**
Bromodichloromethane	ND	1.6	ND	11
1,2-Dibromoethane (EDB)	ND	1.6	ND	12
Vinyl bromide	ND	1.6	ND	7.0
Bromoform	ND	1.6	ND	17
Bromomethane	ND	1.6	ND	6.2
1,3-Butadiene	ND	3.2	ND	7.1
4-Ethyltoluene	ND	3.2	ND	16
Carbon tetrachloride	ND	0.80	ND	5.0
Dibromochloromethane	ND	1.6	ND	14
Chloroethane	ND	1.6	ND	4.2
Chloroform	ND	1.6	ND	7.8
3-Chloropropene	ND	1.6	ND	5.0
Cyclohexane	**50**	**4.0**	**170**	**14**
Dichlorodifluoromethane	ND	1.6	ND	7.9
1,1-Dichloroethane	ND	1.6	ND	6.5
1,2-Dichloroethane	ND	1.6	ND	6.5
1,1-Dichloroethene	ND	1.6	ND	6.3
cis-1,2-Dichloroethene	ND	1.6	ND	6.3
trans-1,2-Dichloroethene	ND	1.6	ND	6.3
1,2-Dichloropropane	ND	1.6	ND	7.4

TO-14 _rev5.rpt version 5.0.103 10/12/2006

AKRF-White Plains

Client Sample ID: SV-11(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 001 **Work Order #** JTPG31AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	1.6	ND	7.3

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	102	70 - 130
Toluene-d8	102	70 - 130
4-Bromofluorobenzene	102	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TO-14 _rev5.rpt version 5.0.103 10/12/2006

Data File: /var/chem/gcms/mj.i/J041607.b/jtpg3.d
Report Date: 19-Apr-2007 18:59

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041607.b/jtpg3.d
Lab Smp Id: JTPG31AD Client Smp ID: SV-11(S.S)
Inj Date : 16-APR-2007 23:30
Operator : 7126 Inst ID: mj.i
Smp Info : JTPG31AD,20,0,,,
Misc Info : J041607,TO15,magna.sub,,,25 ML
Comment :
Method : /var/chem/gcms/mj.i/J041607.b/TO15.m
Meth Date : 19-Apr-2007 17:51 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 10
Dil Factor: 20.00000
Integrator: HP RTE Compound Sublist: magna.sub
Target Version: 3.50

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

Name	Value	Description
DF	20.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

OK RW

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.908	8.899	(1.000)	181918	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.092	11.083	(1.000)	733996	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.809	15.806	(1.000)	661874	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.914	9.905	(0.894)	190104	4.07025	4.070
$ 5 Toluene-d8	98	13.733	13.724	(0.869)	656594	4.07652	4.076
$ 6 4-Bromofluorobenzene	95	17.445	17.441	(1.103)	543981	4.07304	4.073
39 Hexane	56	8.144	8.130	(0.914)	55506	1.18837	23.77
47 Cyclohexane	69	10.538	10.523	(0.950)	79113	2.50075	50.02
51 2,2,4-trimethylpentane	57	11.092	11.277	(1.000)	65472	0.22444	~~4.489~~
53 1,2-Dichloropropane	63	11.791	11.766	(1.063)	5045	0.09362	~~1.872~~
54 Trichloroethene	130	11.796	11.793	(1.064)	1157764	11.1845	223.7
61 trans-1,3-Dichloropropene	75	13.841	13.724	(0.875)	8814	0.08760	~~1.752~~
62 Toluene	91	13.841	13.837	(0.875)	1033872	5.99990	120.0
63 1,1,2-Trichloroethane	97	13.744	13.923	(0.869)	77470	1.24423	~~24.88~~
71 m&p-Xylene	91	16.304	16.301	(1.031)	28950	0.18338	3.668

KM 4-19-07

Data File: /var/chem/gcms/mj.i/J041607.b/jtpg3.d
Report Date: 19-Apr-2007 18:59

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jtpg3.d
Lab Smp Id: JTPG31AD
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,magna.sub,,,25 ML

Calibration Date: 16-APR-2007
Calibration Time: 12:57
Client Smp ID: SV-11(S.S)
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	185541	110397	260685	181918	-1.95
2 1,4-Difluorobenze	738195	439226	1037164	733996	-0.57
3 Chlorobenzene-d5	652787	388408	917166	661874	1.39

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.90	8.57	9.23	8.91	0.10
2 1,4-Difluorobenze	11.08	10.75	11.41	11.09	0.08
3 Chlorobenzene-d5	15.81	15.48	16.14	15.81	0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J041607.b/jtpg3.d
Report Date: 19-Apr-2007 18:59

STL Knoxville

RECOVERY REPORT

Client Name: AKRF-White Plains
Sample Matrix: GAS
Lab Smp Id: JTPG31AD
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: magna.sub
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,magna.sub,,,25 ML

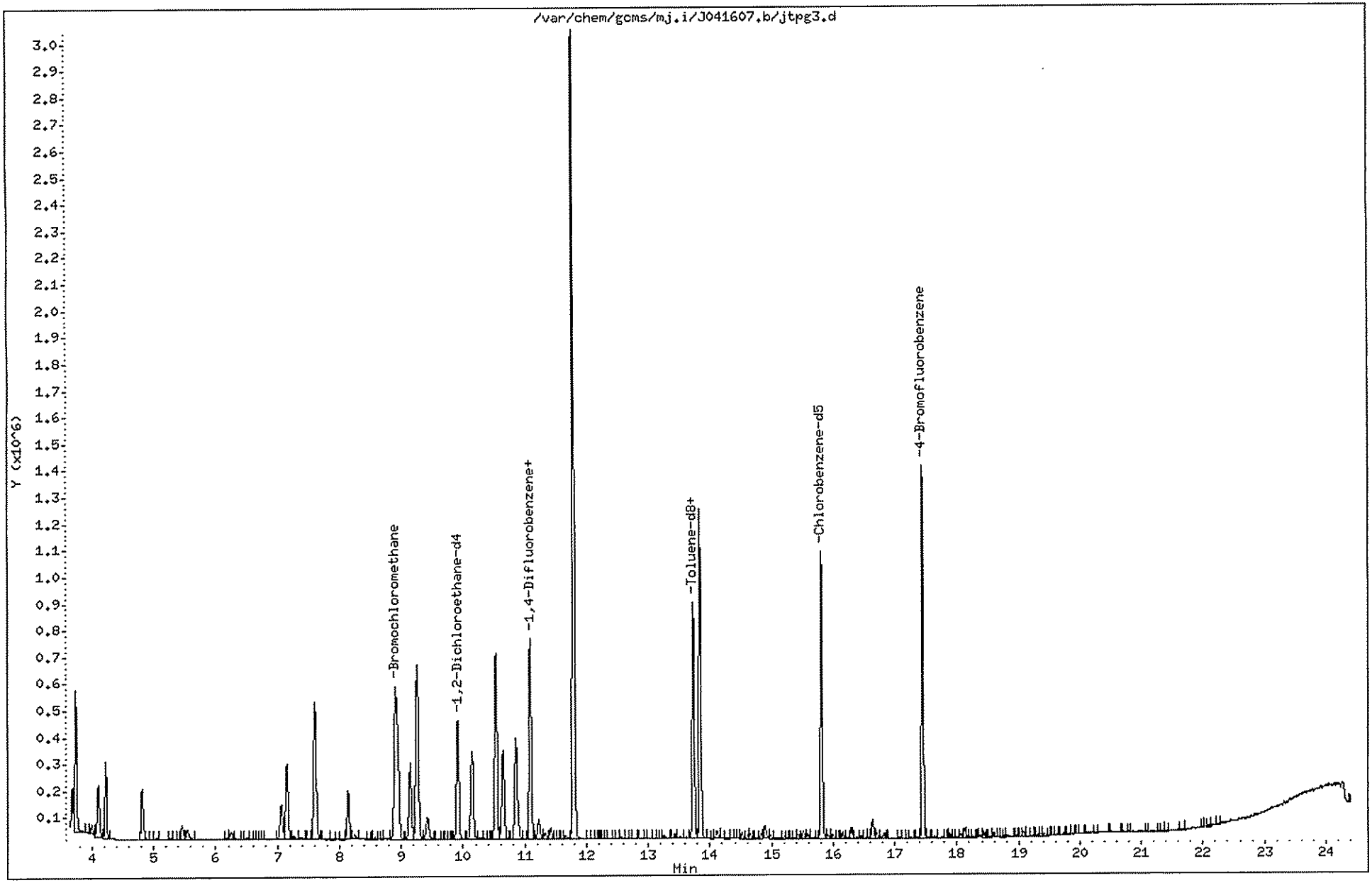
Client SDG: H7D110232
Fraction: OTHER
Client Smp ID: SV-11(S.S)
Operator: 7126
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	4.000	4.070	101.76	70-130
$ 5 Toluene-d8	4.000	4.076	101.91	70-130
$ 6 4-Bromofluorobenze	4.000	4.073	101.83	70-130

Data File: /var/chem/gcms/mj.i/J041607.b/jtpg3.d
Date : 16-APR-2007 23:30
Client ID: SV-11(S.S)
Sample Info: JTPG31AB,20,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J041607.b/jtpg3.d

Date : 16-APR-2007 23:30

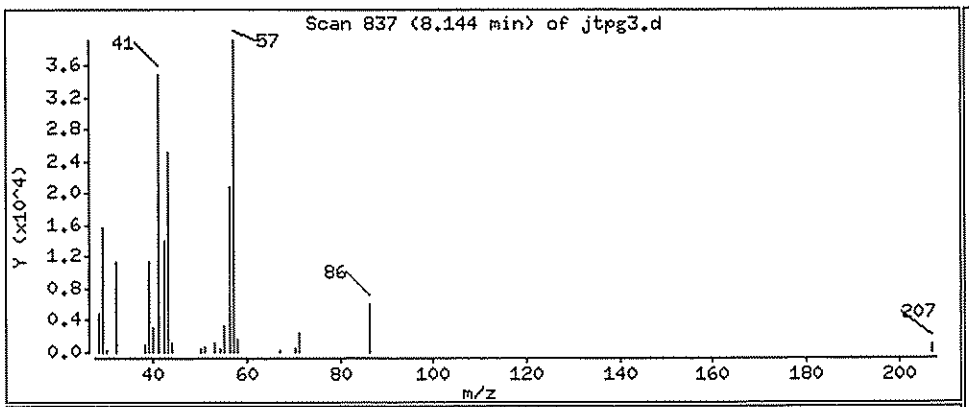
Client ID: SV-11(S.S) Instrument: mj.i

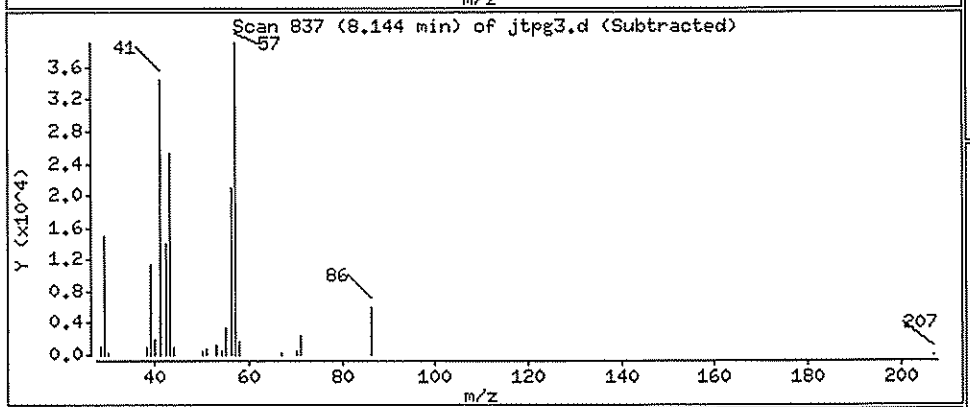
Sample Info: JTPG31AD,20,0,,,

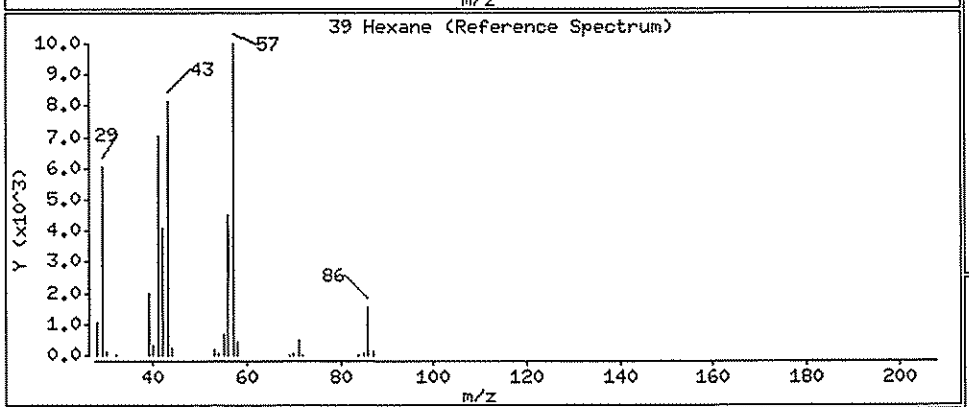
Purge Volume: 500.0 Operator: 7126

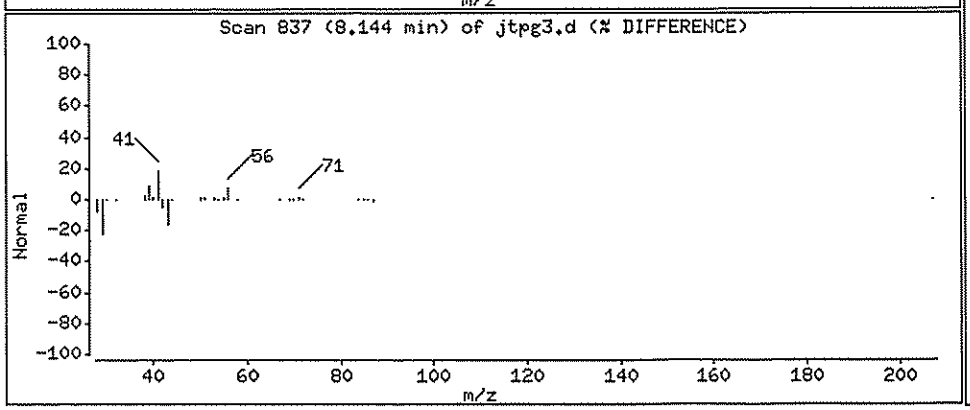
Column phase: Rtx-5 Column diameter: 0.32

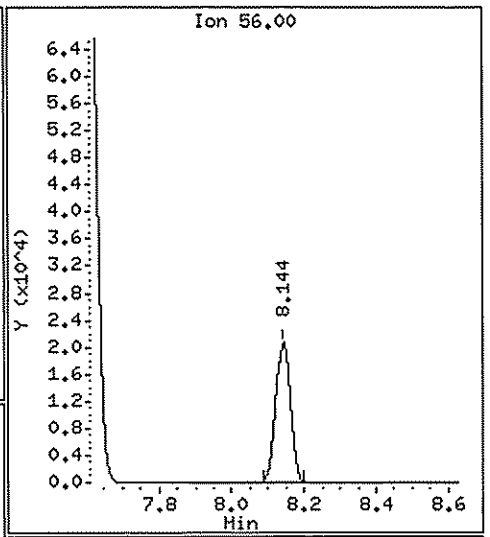
39 Hexane Concentration: 23.77 ppb(v/v)

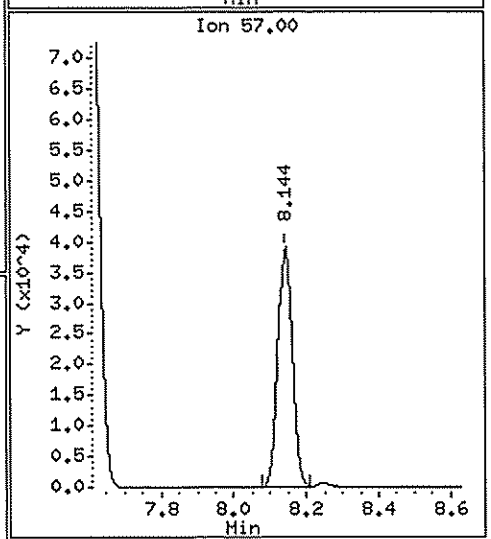


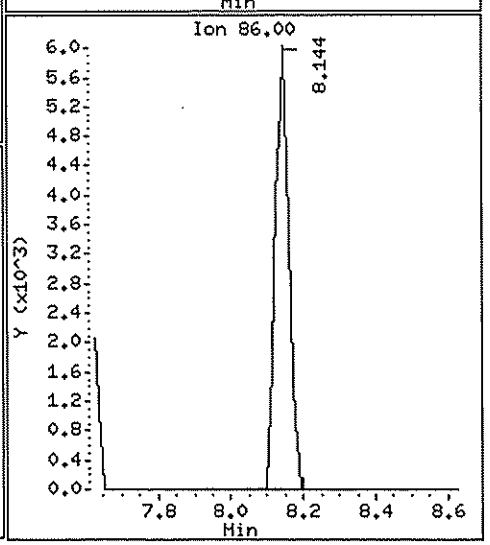












Data File: /var/chem/gcms/mj.i/J041607.b/jtpg3.d

Date : 16-APR-2007 23:30

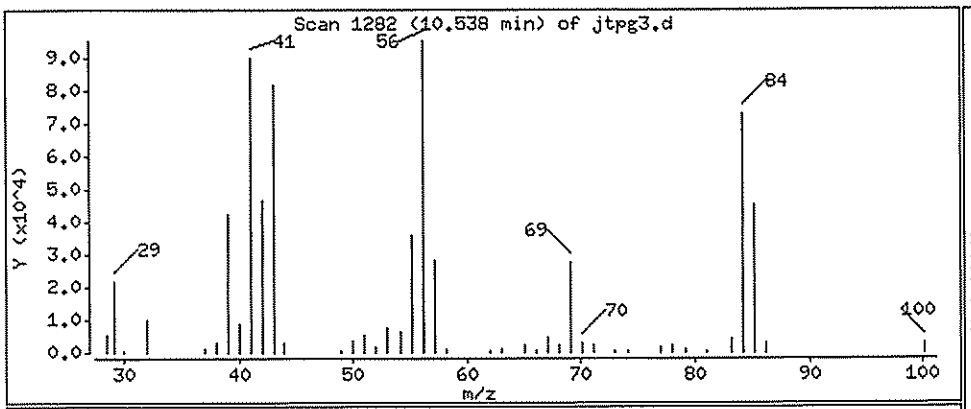
Client ID: SV-11(S.S) Instrument: mj.i

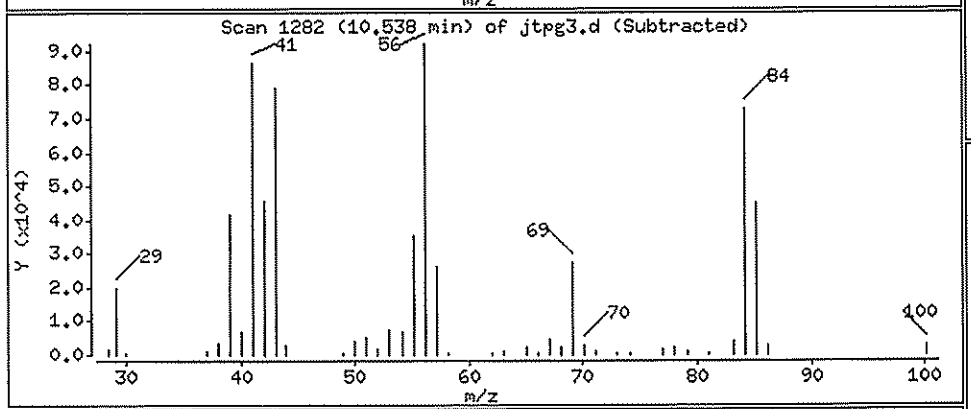
Sample Info: JTPG31AD,20,0,,,

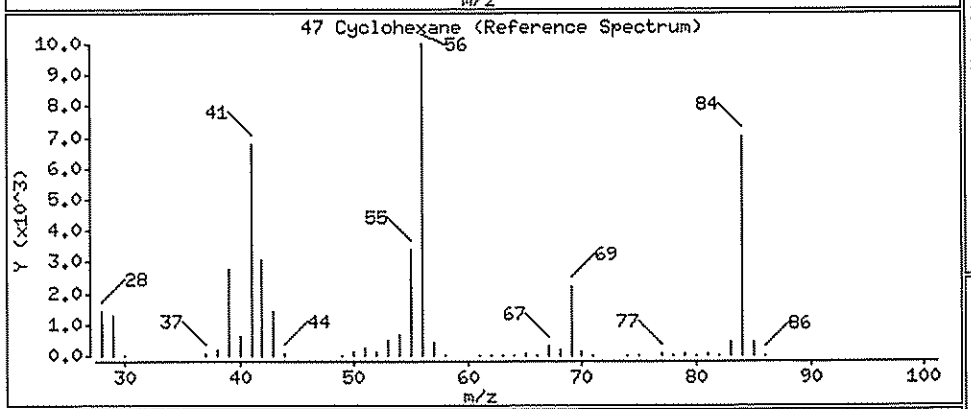
Purge Volume: 500.0 Operator: 7126

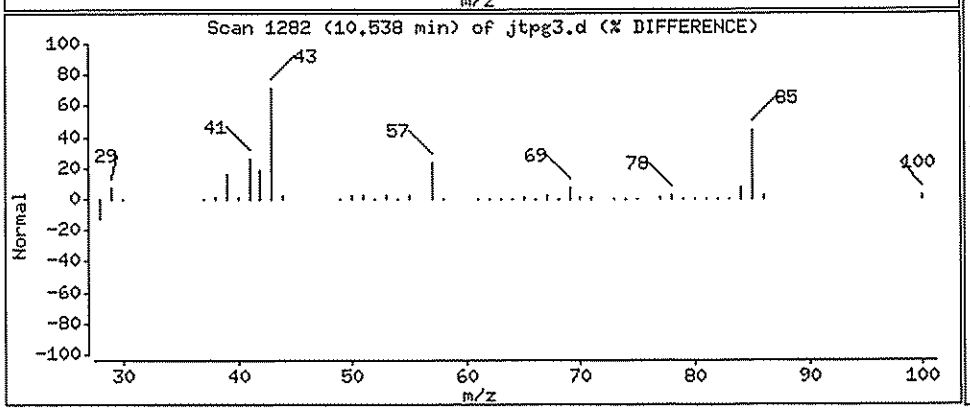
Column phase: Rtx-5 Column diameter: 0.32

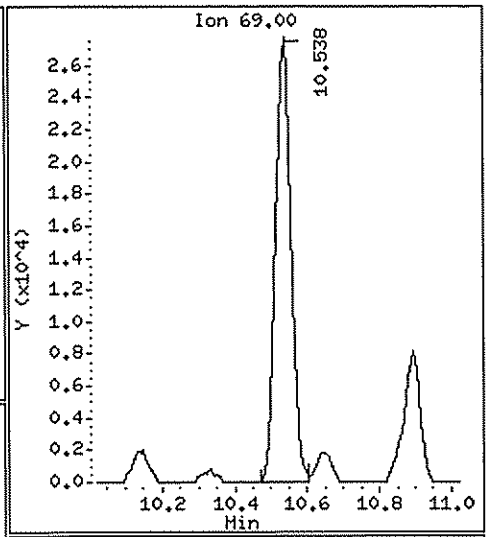
47 Cyclohexane Concentration: 50.02 ppb(v/v)

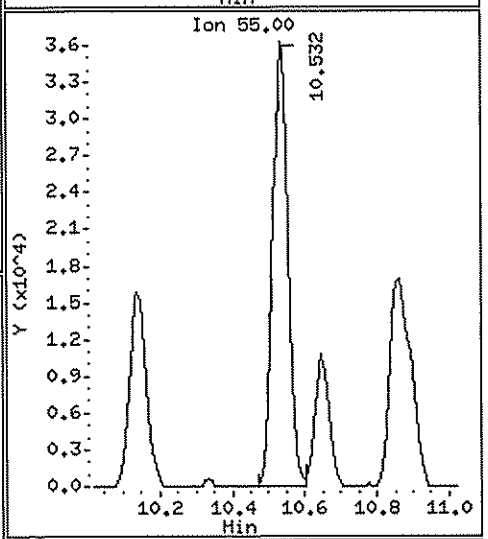


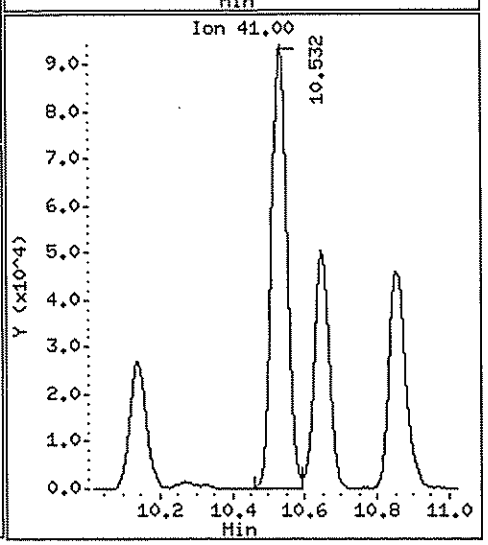












Data File: /var/chem/gcms/mj.i/J041607.b/jtpg3.d

Date : 16-APR-2007 23:30

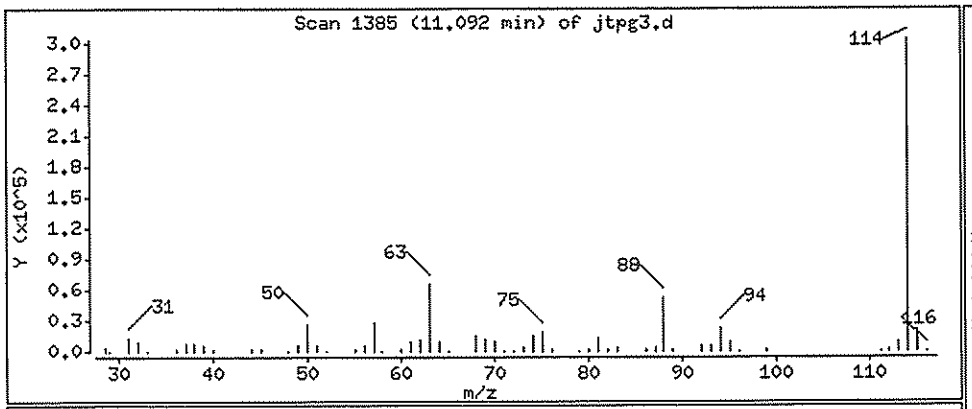
Client ID: SV-11(S,S) Instrument: mj.i

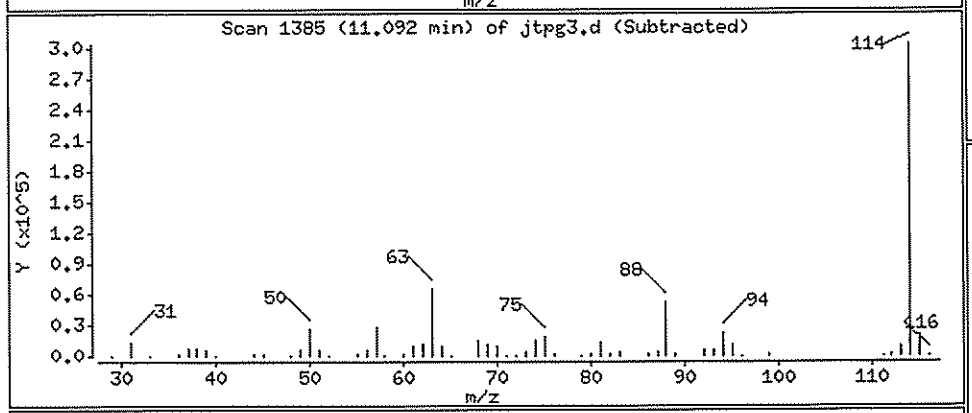
Sample Info: JTPG31AD,20,0,,,

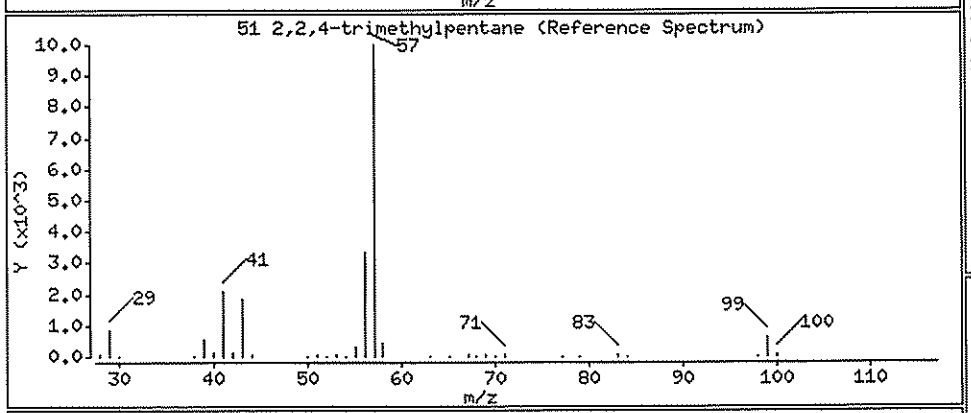
Purge Volume: 500.0 Operator: 7126

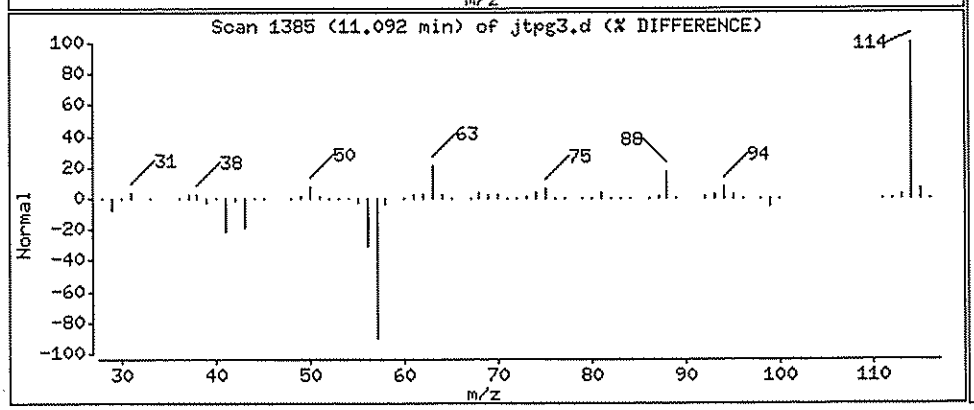
Column phase: Rtx-5 Column diameter: 0.32

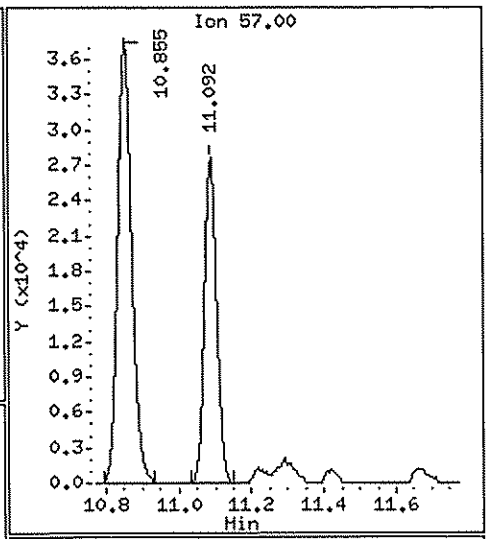
51 2,2,4-trimethylpentane Concentration: 4.489 ppb(v/v)

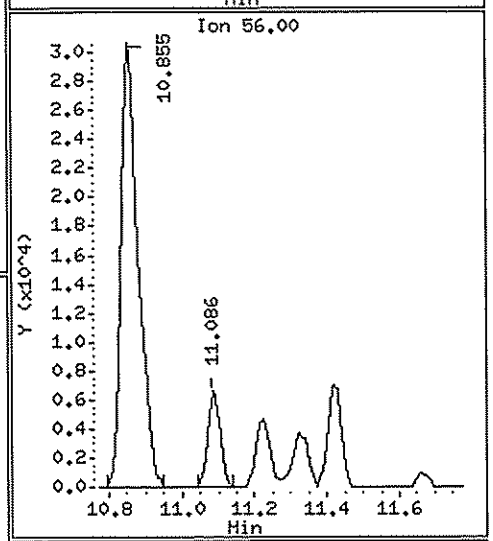


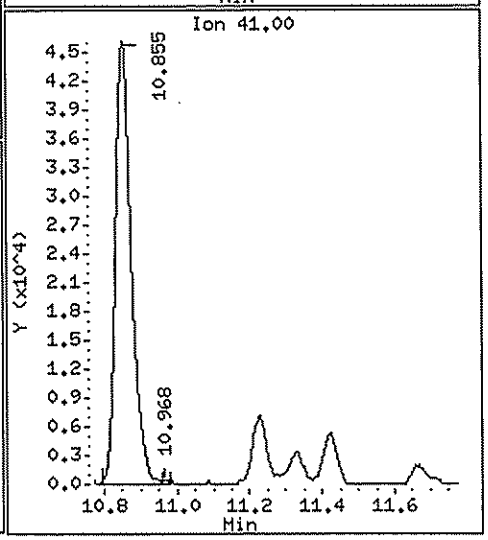












Data File: /var/chem/gcms/mj.i/J041607.b/jtpg3.d

Date : 16-APR-2007 23:30

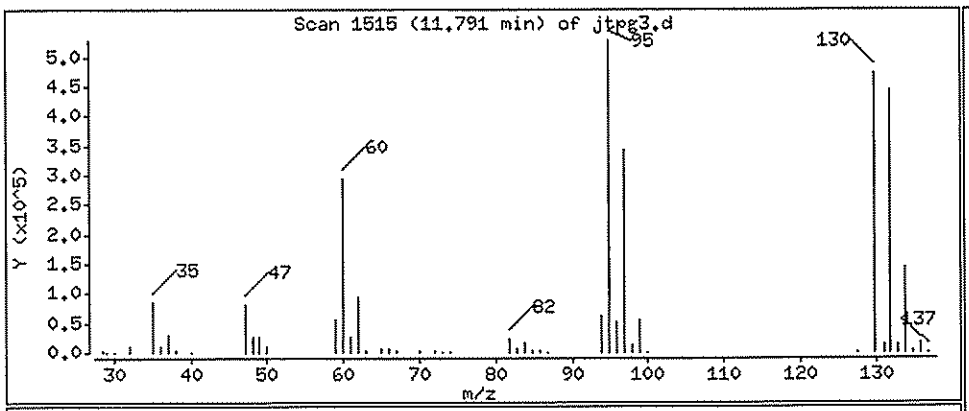
Client ID: SV-11(S.S) Instrument: mj.i

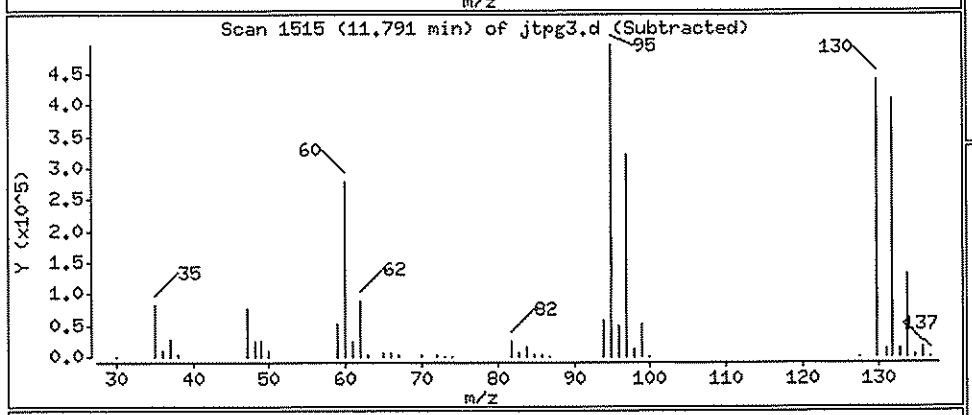
Sample Info: JTPG31AD,20,0,,,

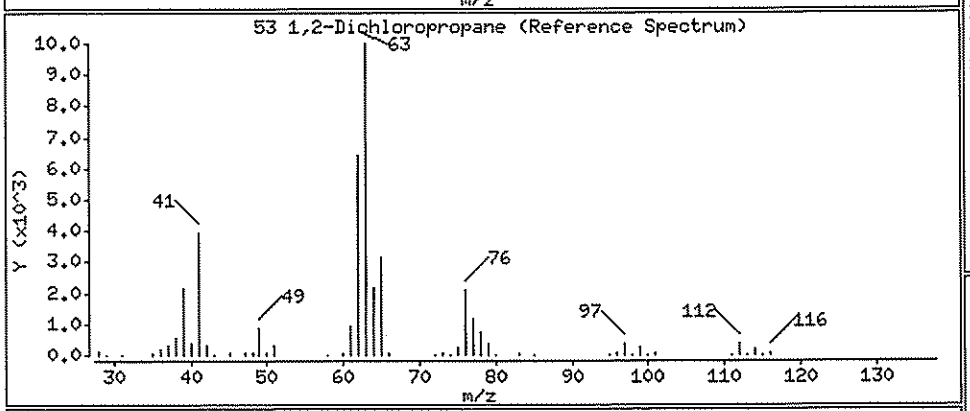
Purge Volume: 500.0 Operator: 7126

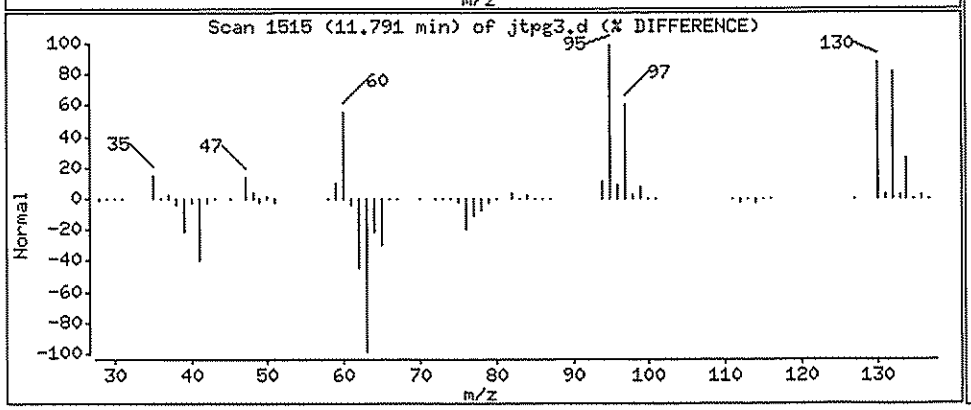
Column phase: Rtx-5 Column diameter: 0.32

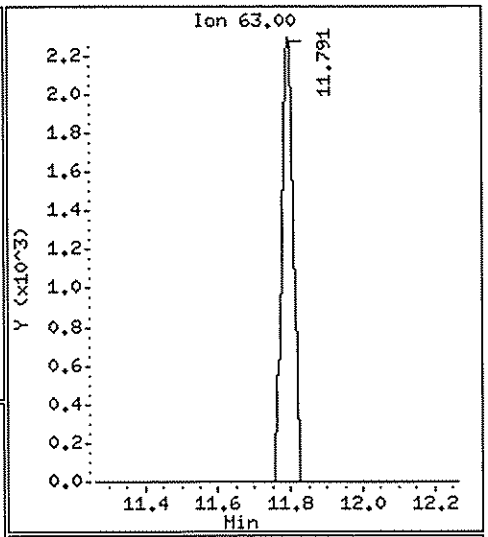
53 1,2-Dichloropropane Concentration: 1.872 ppb(v/v)

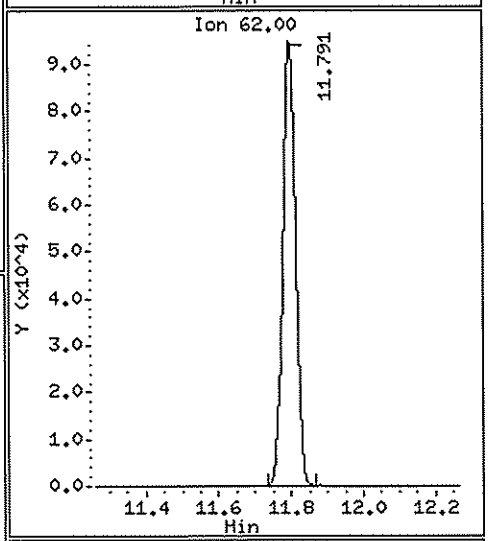


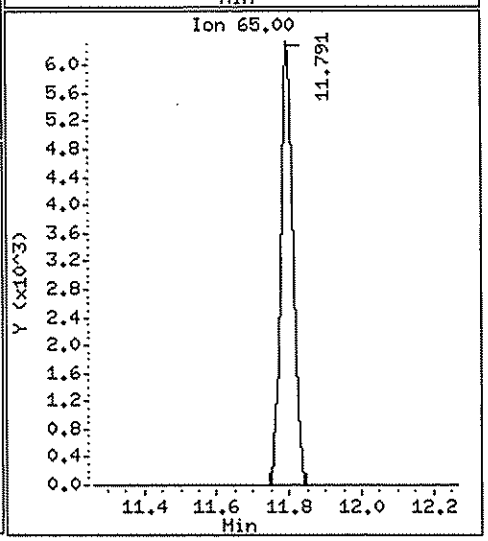












Data File: /var/chem/gcms/mj.i/J041607.b/jtpg3.d

Date : 16-APR-2007 23:30

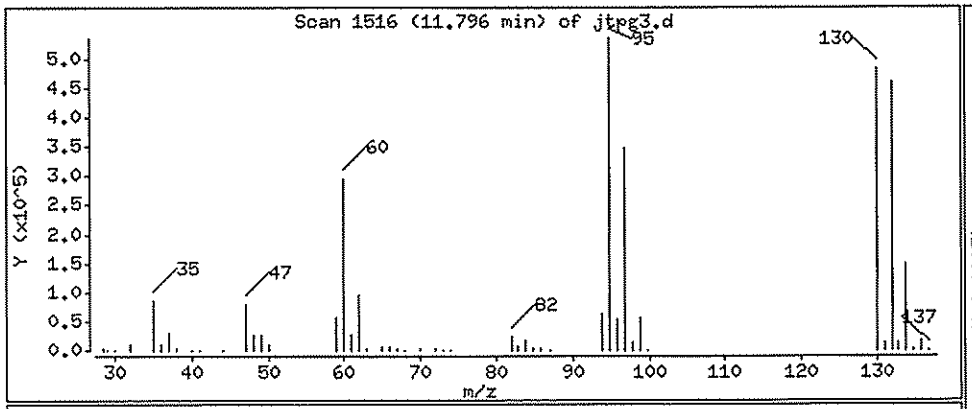
Client ID: SV-11(S.S) Instrument: mj.i

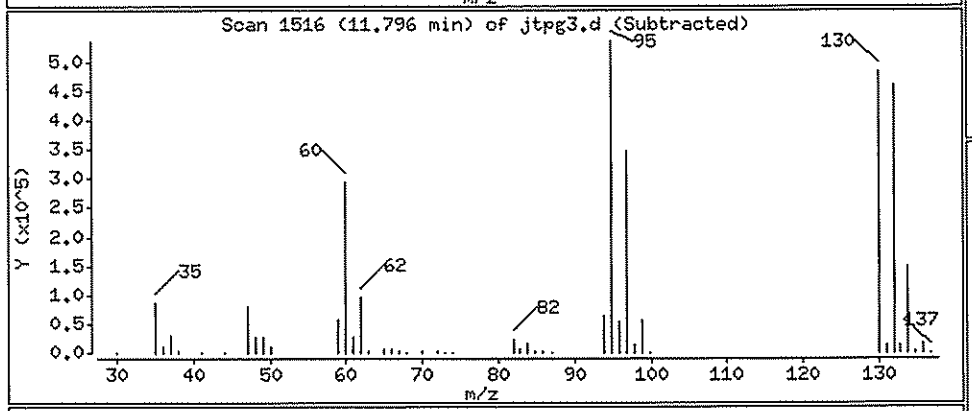
Sample Info: JTPG31AD,20,0,,,

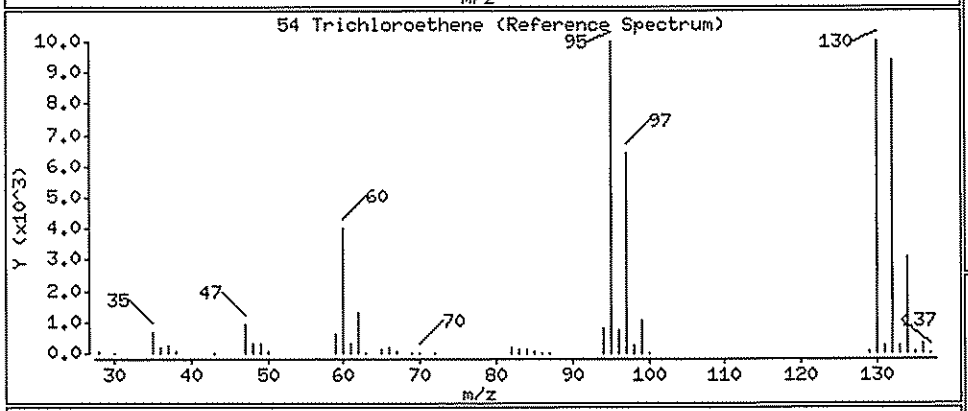
Purge Volume: 500.0 Operator: 7126

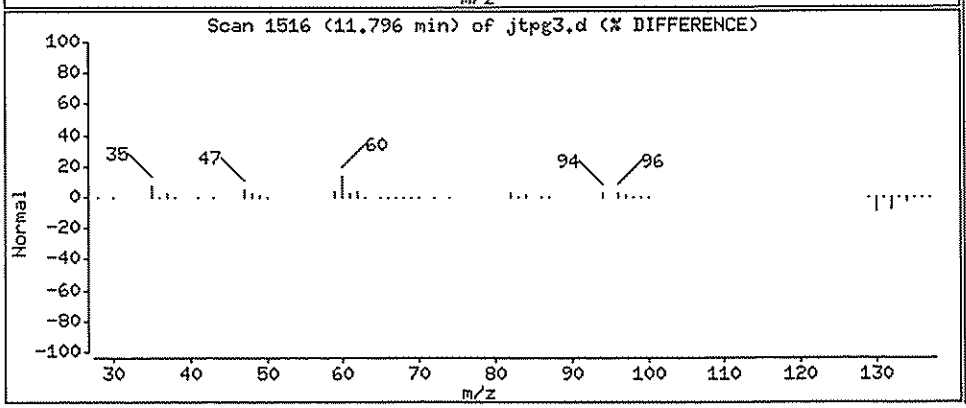
Column phase: Rtx-5 Column diameter: 0.32

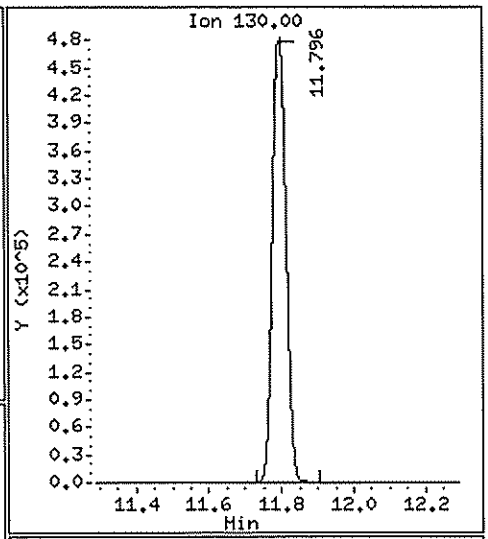
54 Trichloroethene Concentration: 223.7 ppb(v/v)

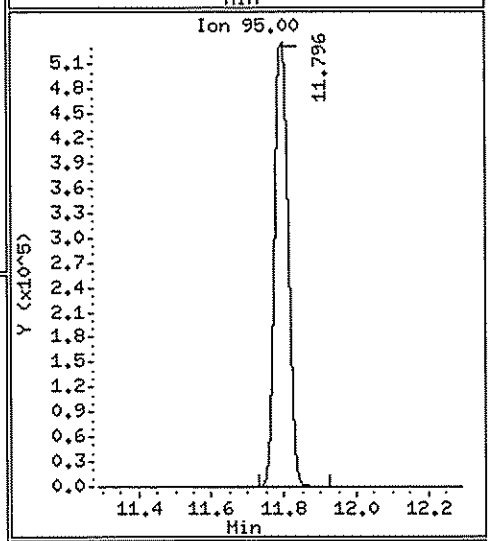


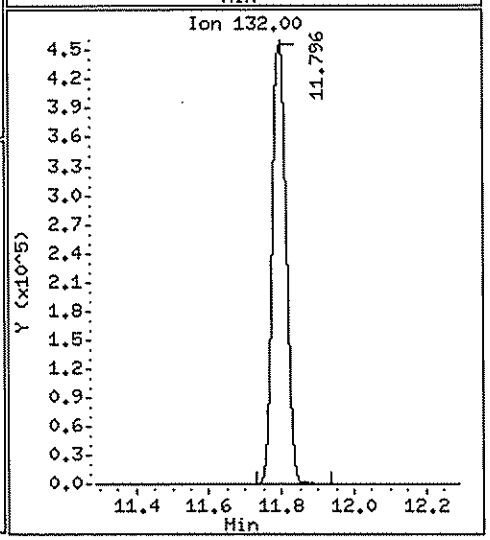












Data File: /var/chem/gcms/mj.i/J041607.b/jtpg3.d

Date : 16-APR-2007 23:30

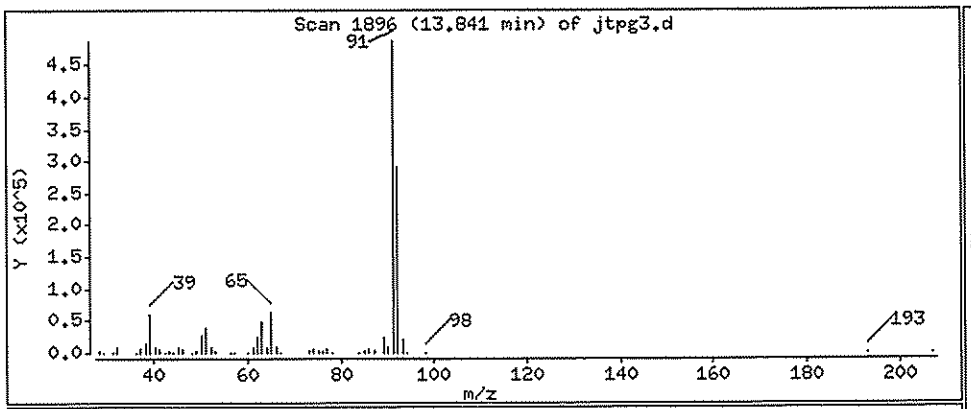
Client ID: SV-11(S.S) Instrument: mj.i

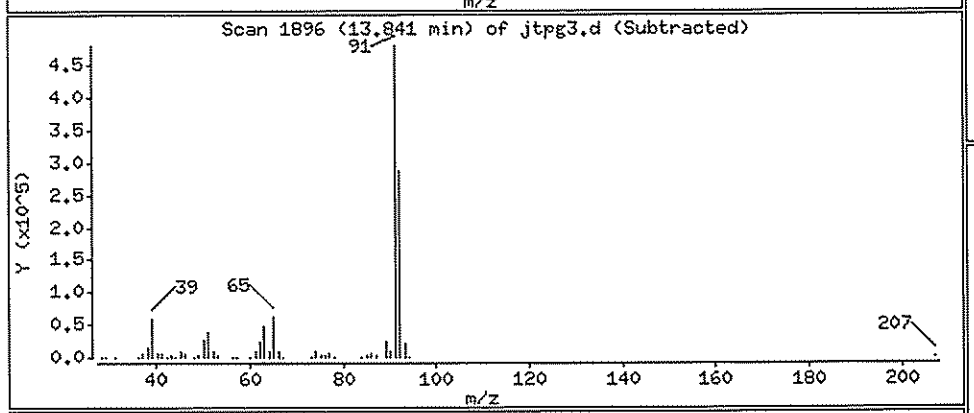
Sample Info: JTPG31AD,20,0,,,

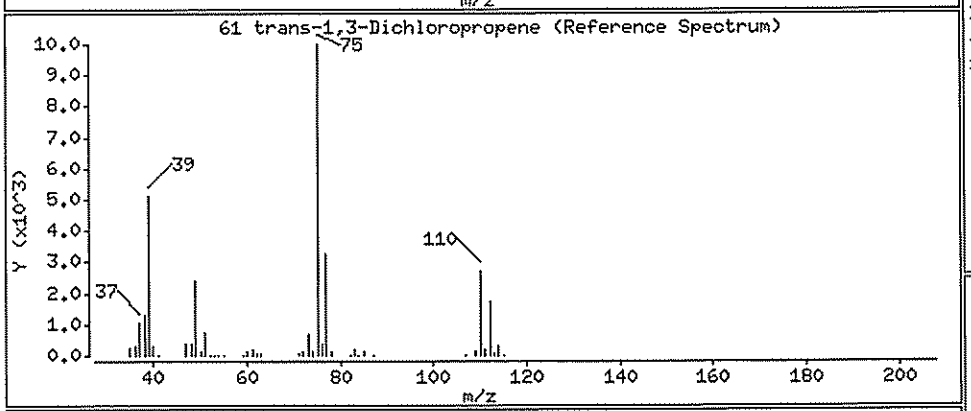
Purge Volume: 500.0 Operator: 7126

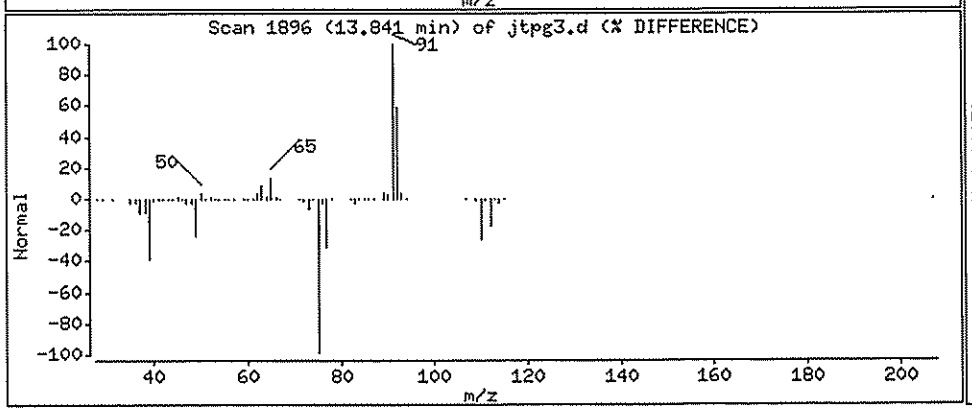
Column phase: Rtx-5 Column diameter: 0.32

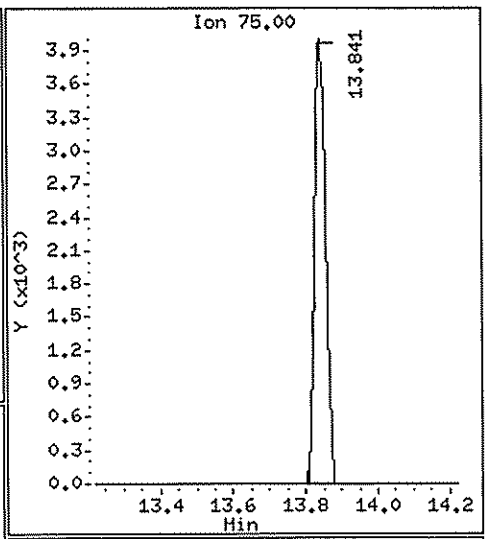
61 trans-1,3-Dichloropropene Concentration: 1.752 ppb(v/v)

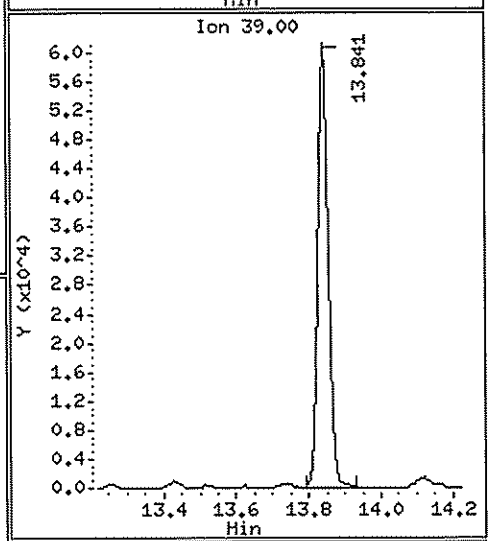


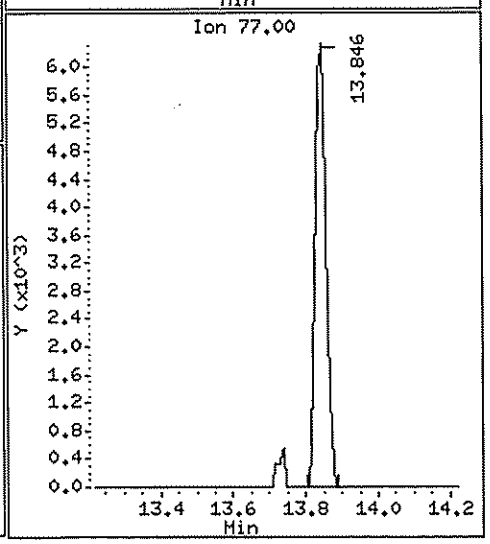












Data File: /var/chem/gcms/mj.i/J041607.b/jtpg3.d

Date : 16-APR-2007 23:30

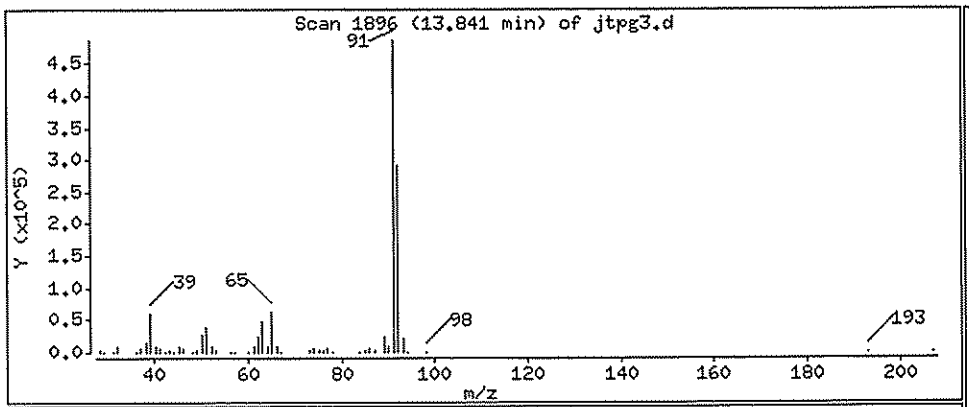
Client ID: SV-11(S.S) Instrument: mj.i

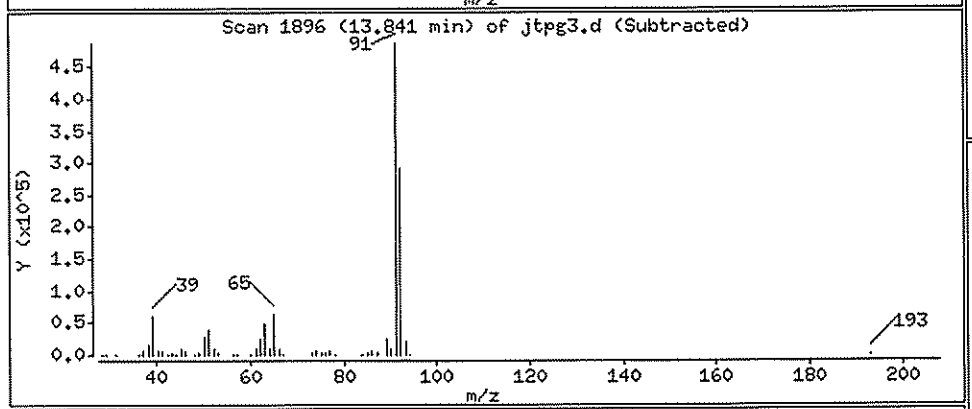
Sample Info: JTPG31AD,20,0,,,

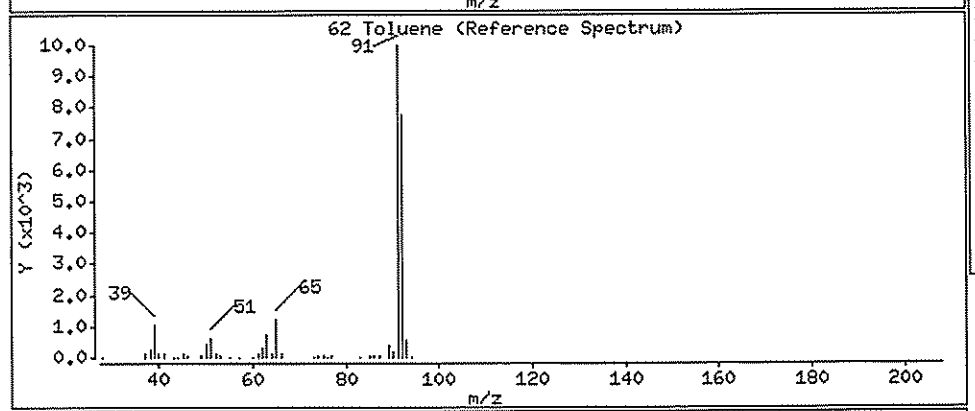
Purge Volume: 500.0 Operator: 7126

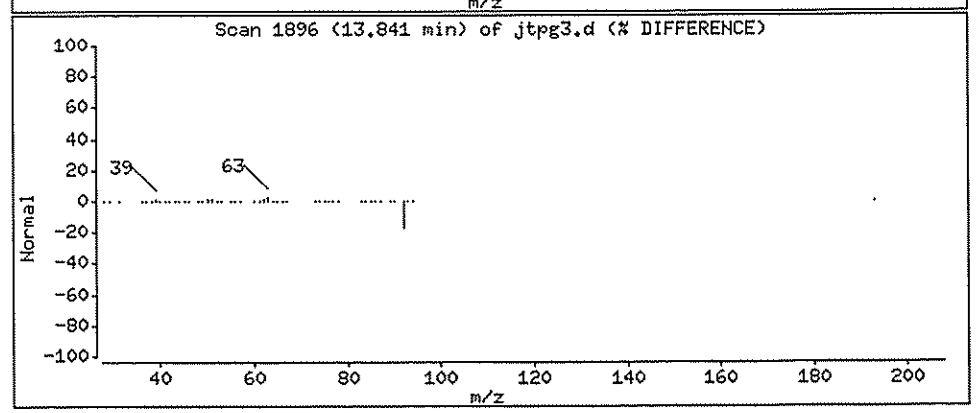
Column phase: Rtx-5 Column diameter: 0.32

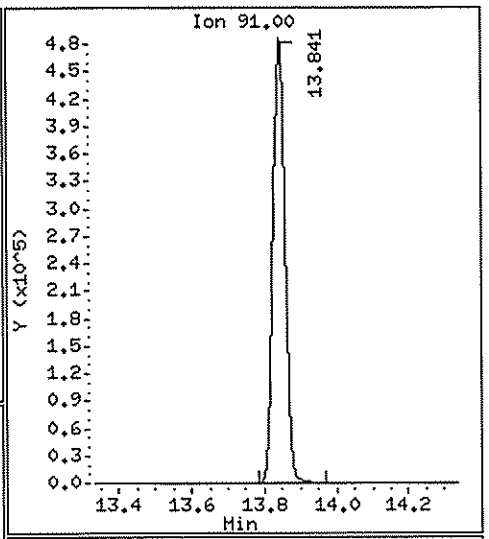
62 Toluene Concentration: 120.0 ppb(v/v)

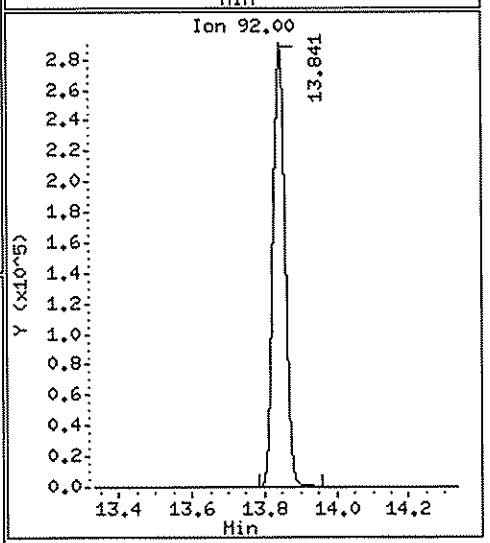












Data File: /var/chem/gcms/mj.i/J041607.b/jtpg3.d

Date : 16-APR-2007 23:30

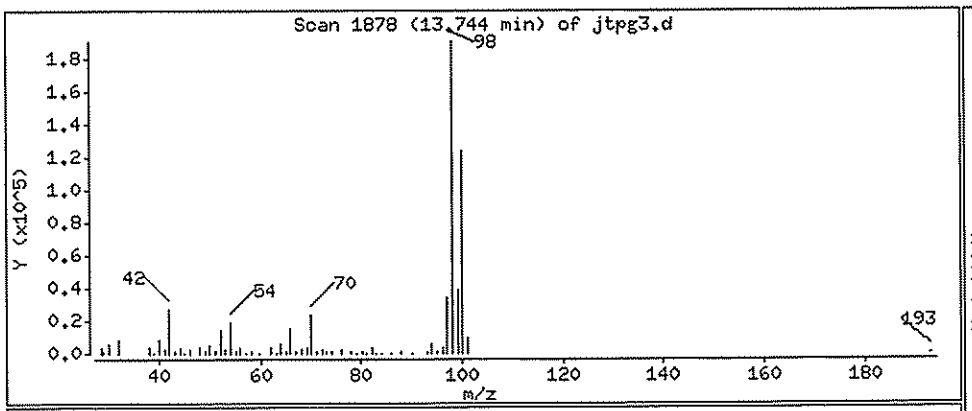
Client ID: SV-11(S,S) Instrument: mj.i

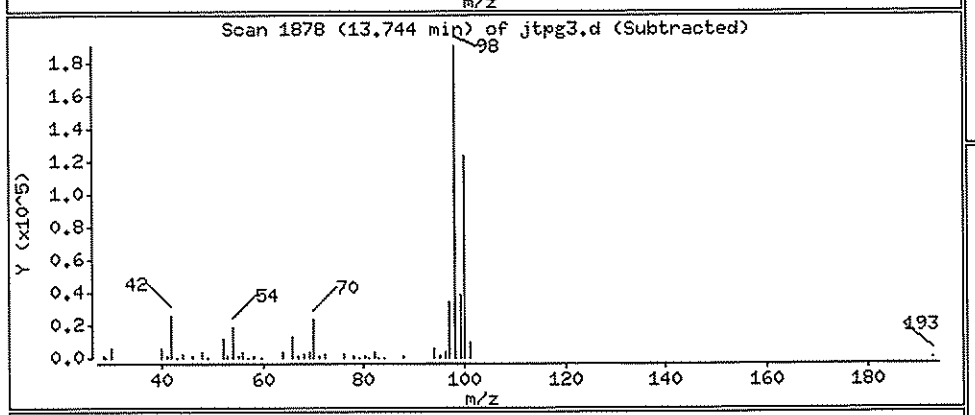
Sample Info: JTPG31AD,20,0,,,

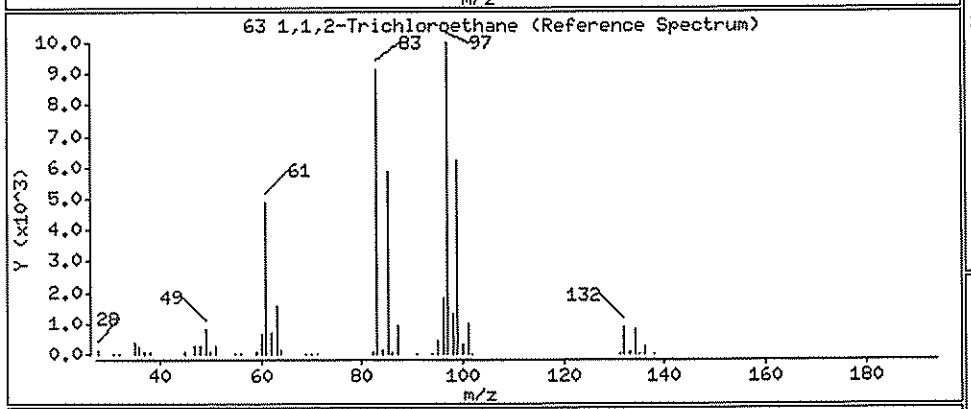
Purge Volume: 500.0 Operator: 7126

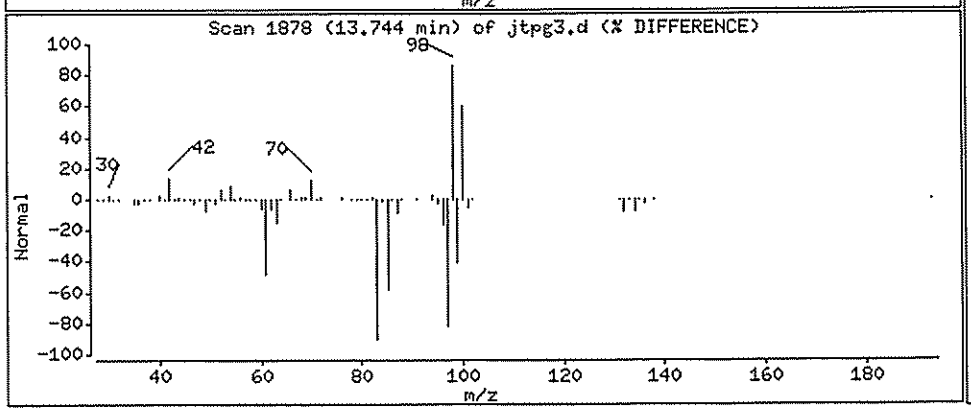
Column phase: Rtx-5 Column diameter: 0.32

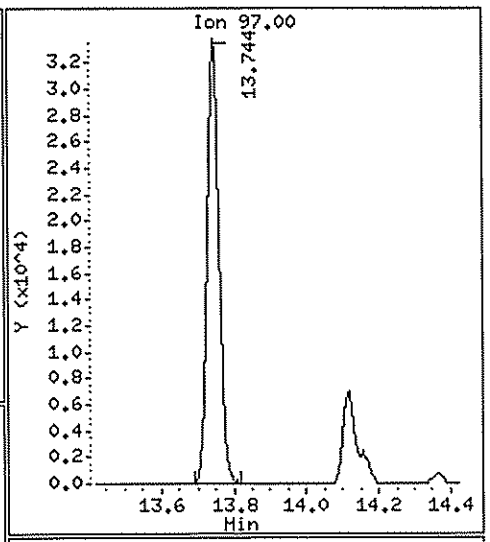
63 1,1,2-Trichloroethane Concentration: 24.88 ppb(v/v)

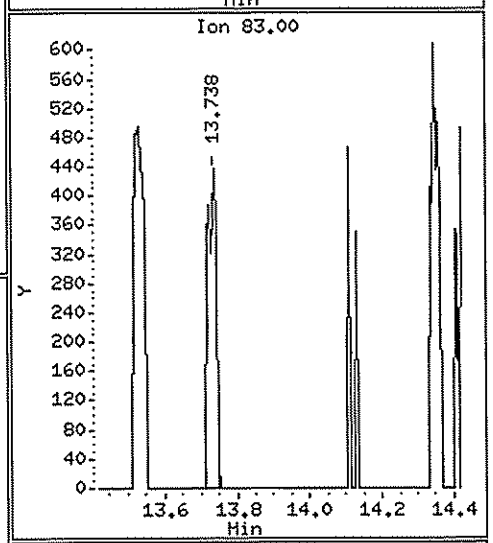


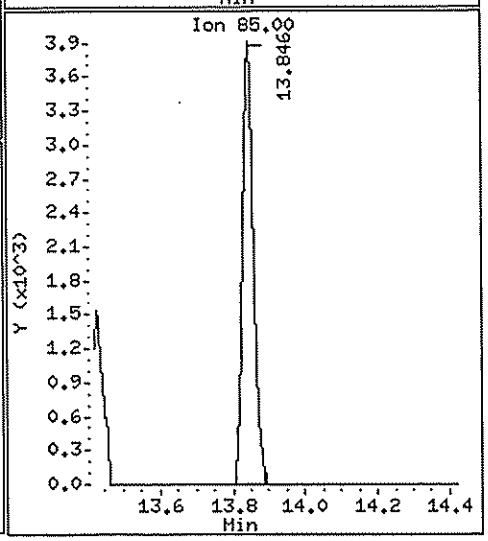












Data File: /var/chem/gcms/mj.i/J041607.b/jtpg3.d

Date : 16-APR-2007 23:30

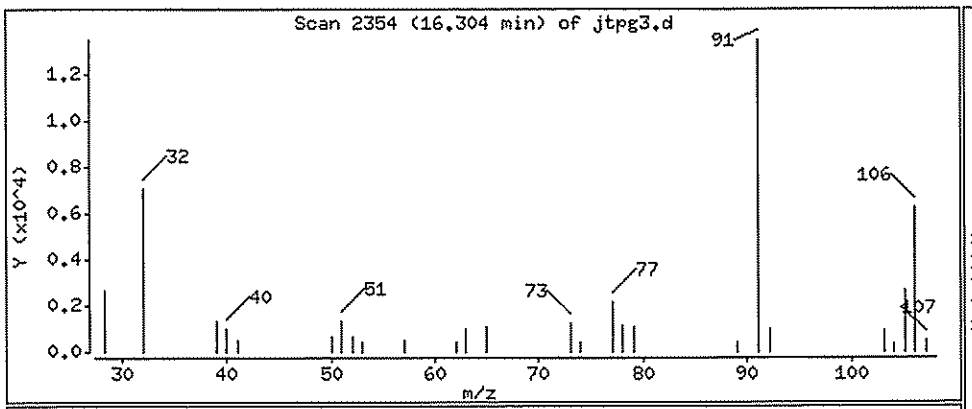
Client ID: SV-11(S,S) Instrument: mj.i

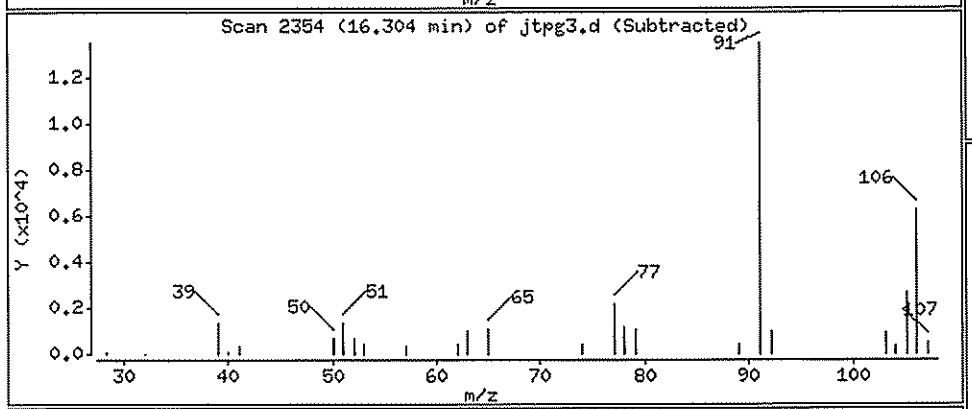
Sample Info: JTPG31AD,20,0,,,

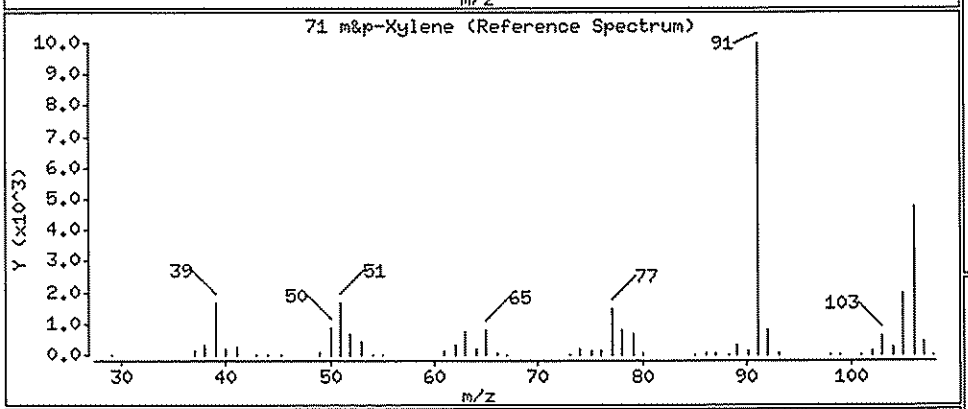
Purge Volume: 500.0 Operator: 7126

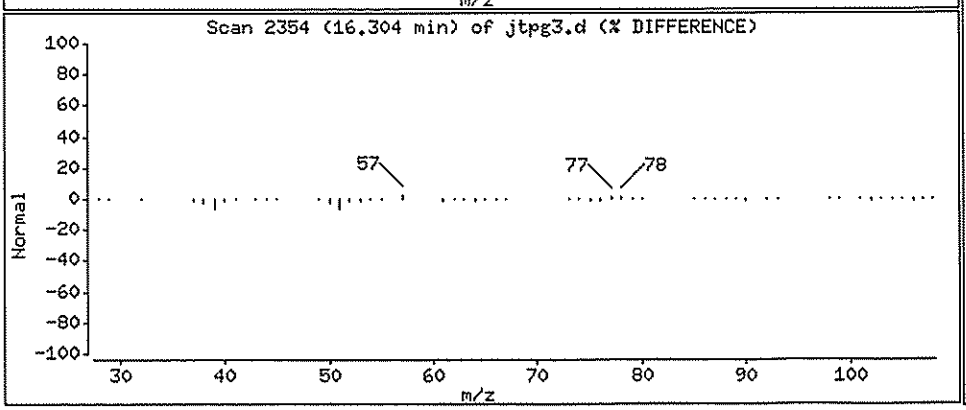
Column phase: Rtx-5 Column diameter: 0.32

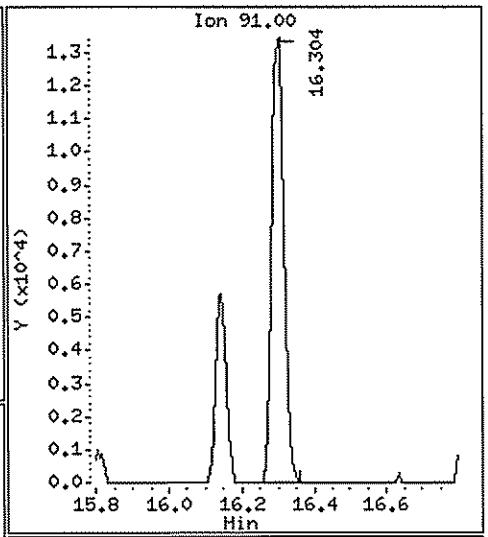
71 m&p-Xylene Concentration: 3.668 ppb(v/v)

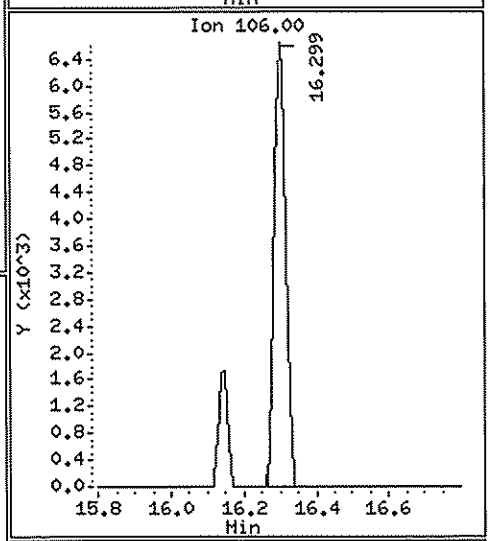


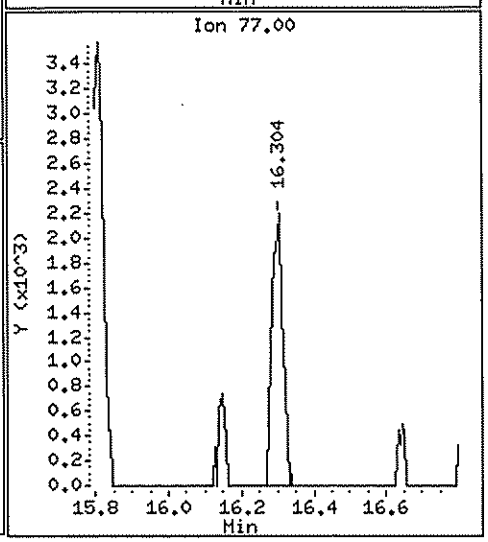












AKRF-White Plains

Client Sample ID: SV-11(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 002 **Work Order #** JTPHA1AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7107200
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	**0.11**	**0.080**	**0.49**	**0.35**
Trichlorofluoromethane	**0.23**	**0.080**	**1.3**	**0.45**
n-Heptane	**0.40**	**0.20**	**1.7**	**0.82**
n-Hexane	ND	0.20	ND	0.70
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.17**	**0.080**	**0.55**	**0.26**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**0.96**	**0.080**	**3.6**	**0.30**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	**0.41**	**0.040**	**2.2**	**0.21**
1,3,5-Trimethylbenzene	**0.23**	**0.080**	**1.2**	**0.39**
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	**0.14**	**0.080**	**0.60**	**0.35**
Methyl tert-butyl ether	ND	0.40	ND	1.4
m-Xylene & p-Xylene	**0.33**	**0.080**	**1.4**	**0.35**
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	**0.084**	**0.040**	**0.53**	**0.25**
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	ND	0.20	ND	0.69
Dichlorodifluoromethane	**0.47**	**0.080**	**2.3**	**0.40**
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37

TO-14 _rev5.rpt version 5.0.103 10/12/2006

AKRF-White Plains

Client Sample ID: SV-11(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 002 **Work Order #** JTPHA1AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	110	70 - 130
Toluene-d8	104	70 - 130
4-Bromofluorobenzene	102	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TO-14 _rev5.rpt version 5.0.103 10/12/2006

Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d
Report Date: 19-Apr-2007 18:59

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041607.b/jtpha.d
Lab Smp Id: JTPHA1AD Client Smp ID: SV-11(A.A)
Inj Date : 17-APR-2007 00:11
Operator : 7126 Inst ID: mj.i
Smp Info : JTPHA1AD,,0,,,
Misc Info : J041607,TO15,magna.sub,,,500 ML
Comment :
Method : /var/chem/gcms/mj.i/J041607.b/TO15.m
Meth Date : 19-Apr-2007 17:51 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: magna.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

OK 20U

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.904	8.899	(1.000)	177119	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.088	11.083	(1.000)	668884	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.806	15.806	(1.000)	599659	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.910	9.905	(0.894)	186573	4.38349	4.383
$ 5 Toluene-d8	98	13.730	13.724	(0.869)	609128	4.17419	4.174
$ 6 4-Bromofluorobenzene	95	17.447	17.441	(1.104)	494472	4.08646	4.086
8 Dichlorodifluoromethane	85	3.778	3.778	(0.424)	100125	0.47134	0.4713
20 Trichlorofluoromethane	101	5.268	5.262	(0.592)	49407	0.23365	0.2336
32 3-Chloropropene	39	6.161	6.344	(0.692)	5330	0.08439	~~0.08439~~
49 Benzene	78	10.545	10.534	(0.951)	27567	0.17106	0.1710
50 Carbon Tetrachloride	117	10.567	10.556	(1.187)	13477	0.08435	0.08435
51 2,2,4-trimethylpentane	57	11.083	11.277	(1.000)	58896	0.22154	~~0.2215~~
52 Heptane	43	11.664	11.653	(1.052)	38416	0.40323	0.4032
54 Trichloroethene	130	11.793	11.793	(1.064)	39074	0.41422	0.4142
62 Toluene	91	13.843	13.837	(0.876)	150479	0.96389	0.9639
63 1,1,2-Trichloroethane	97	13.741	13.923	(0.869)	70854	1.25605	~~1.256~~

UM
4-19-07

Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d
Report Date: 19-Apr-2007 18:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
70 Ethylbenzene	91	16.140	16.140	(1.021)	20812	0.11258	0.1126
71 m&p-Xylene	91	16.296	16.301	(1.031)	47210	0.33006	0.3301
75 o-Xylene	91	16.823	16.823	(1.064)	21477	0.13813	0.1381
83 4-Ethyltoluene	105	18.055	18.092	(1.142)	42132	0.21043	0.2104
84 1,3,5-Trimethylbenzene	120	18.162	18.162	(1.149)	17321	0.23420	0.2342

KM
4-19-07

Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d
Report Date: 19-Apr-2007 18:59

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jtpha.d
Lab Smp Id: JTPHA1AD
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,magna.sub,,,500 ML

Calibration Date: 16-APR-2007
Calibration Time: 12:57
Client Smp ID: SV-11(A.A)
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	185541	110397	260685	177119	-4.54
2 1,4-Difluorobenze	738195	439226	1037164	668884	-9.39
3 Chlorobenzene-d5	652787	388408	917166	599659	-8.14

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.90	8.57	9.23	8.90	0.06
2 1,4-Difluorobenze	11.08	10.75	11.41	11.09	0.05
3 Chlorobenzene-d5	15.81	15.48	16.14	15.81	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d
Report Date: 19-Apr-2007 18:59

STL Knoxville

RECOVERY REPORT

Client Name: AKRF-White Plains
Sample Matrix: GAS
Lab Smp Id: JTPHA1AD
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: magna.sub
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,magna.sub,,,500 ML

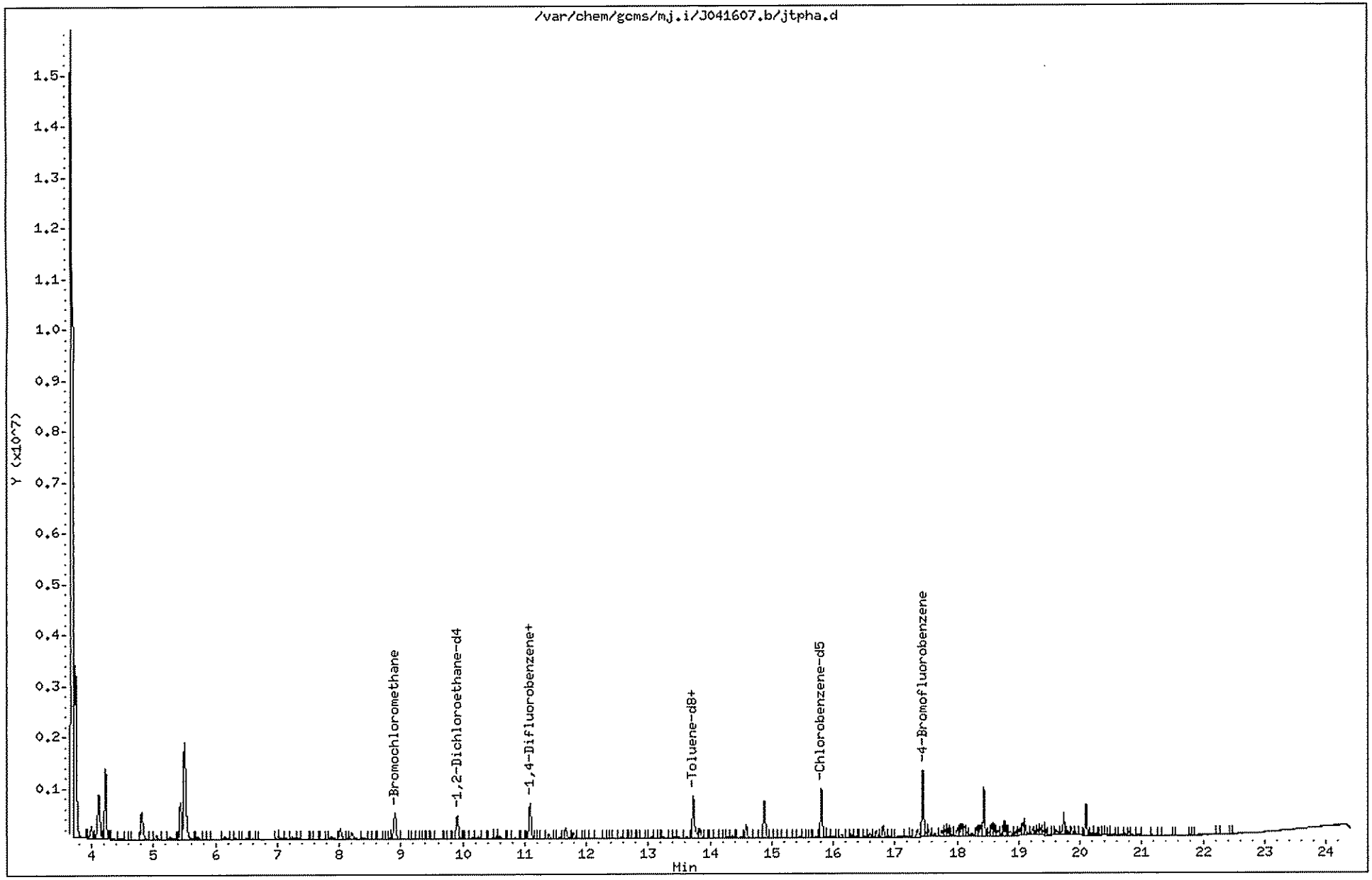
Client SDG: H7D110232
Fraction: OTHER
Client Smp ID: SV-11(A.A)
Operator: 7126
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	4.000	4.383	109.59	70-130
$ 5 Toluene-d8	4.000	4.174	104.35	70-130
$ 6 4-Bromofluorobenze	4.000	4.086	102.16	70-130

Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d
Date : 17-APR-2007 00:11
Client ID: SV-11(A,A)
Sample Info: JTPHA1AD,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d

Date : 17-APR-2007 00:11

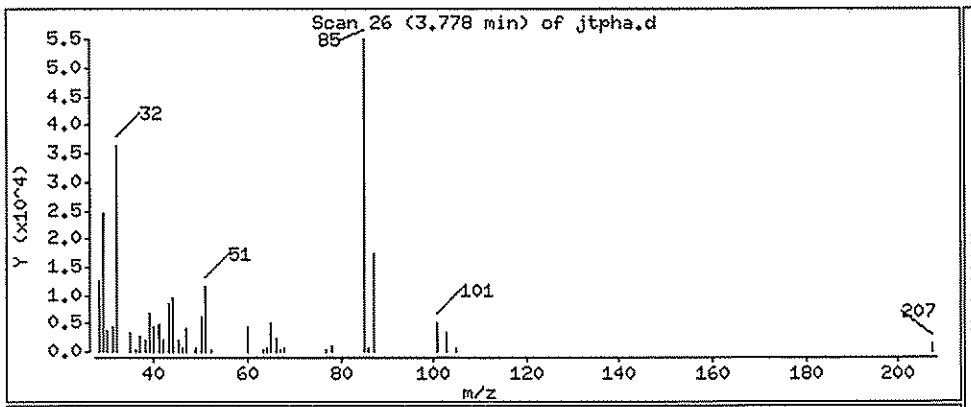
Client ID: SV-11(A,A) Instrument: mj.i

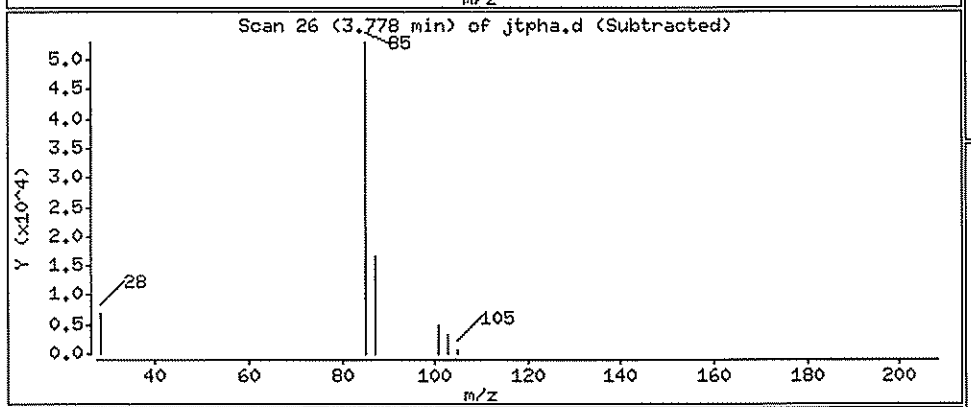
Sample Info: JTPHA1AD,,0,,,

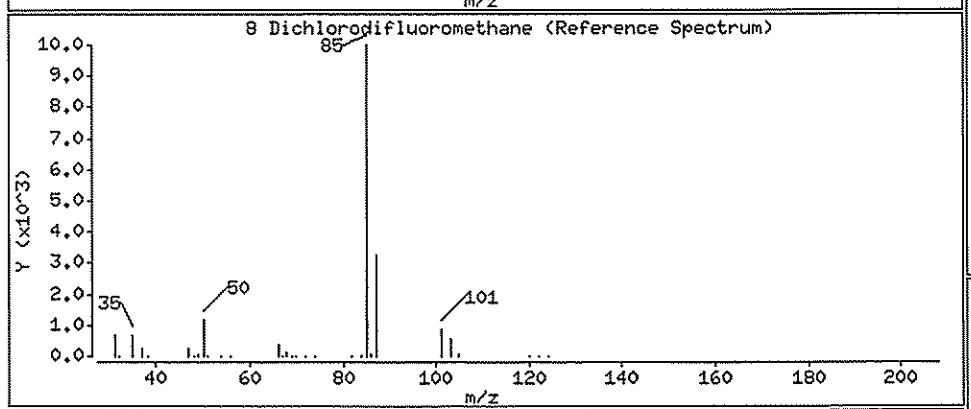
Purge Volume: 500.0 Operator: 7126

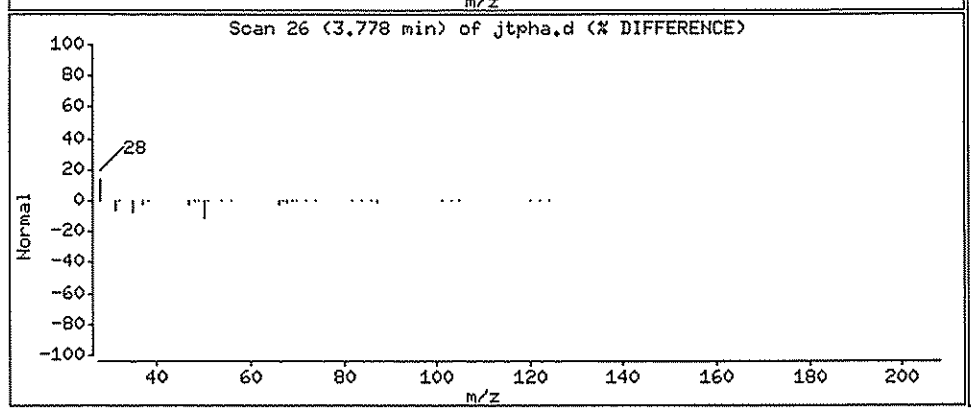
Column phase: Rtx-5 Column diameter: 0.32

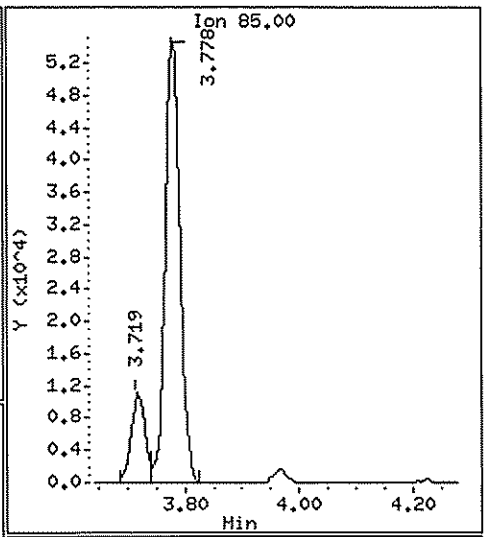
8 Dichlorodifluoromethane Concentration: 0.4713 ppb(v/v)

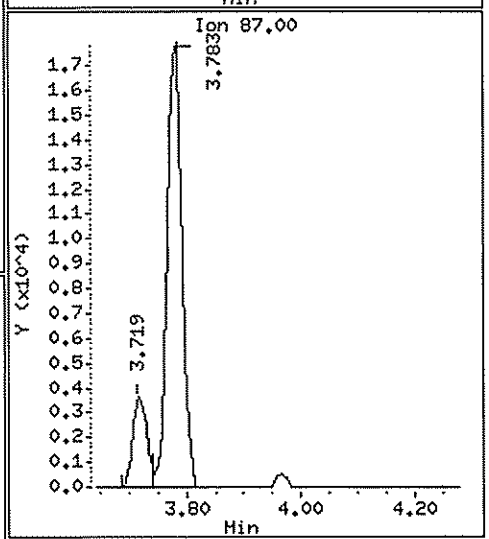


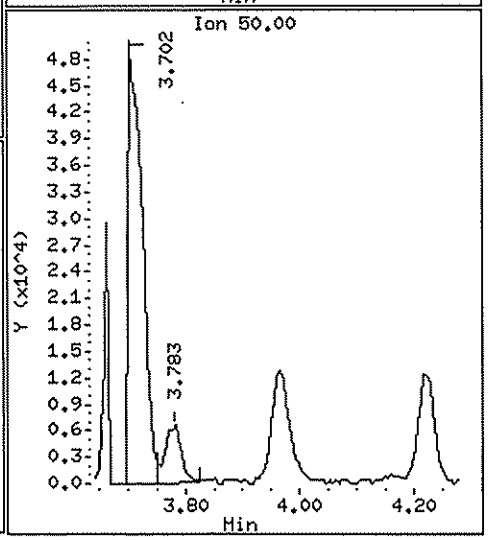












Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d

Date : 17-APR-2007 00:11

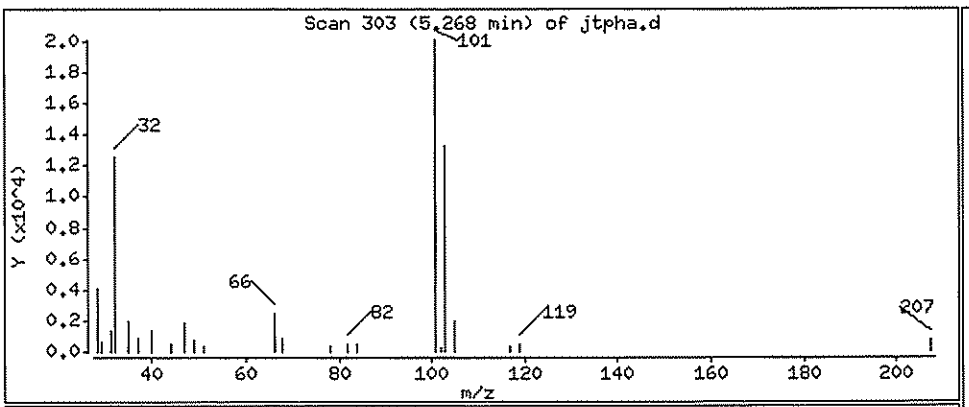
Client ID: SV-11(A,A) Instrument: mj.i

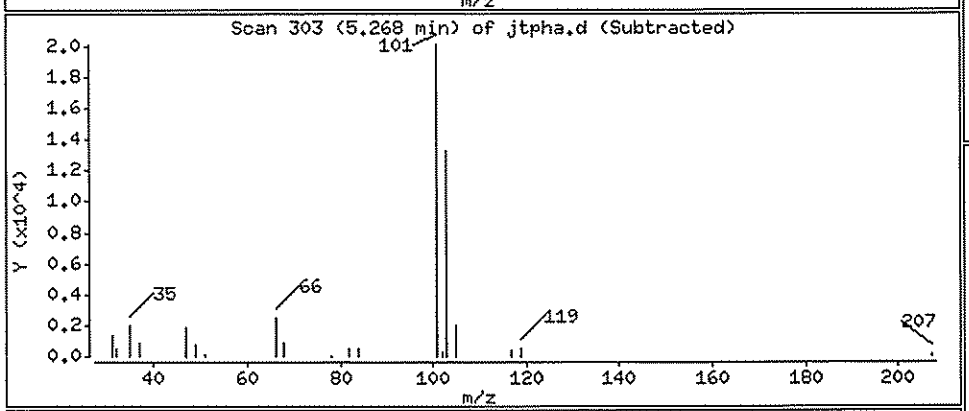
Sample Info: JTPHA1AD,,0,,,

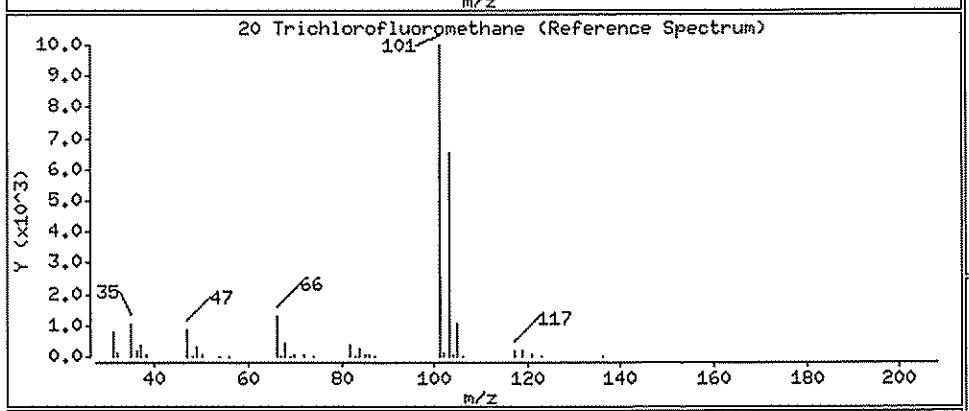
Purge Volume: 500.0 Operator: 7126

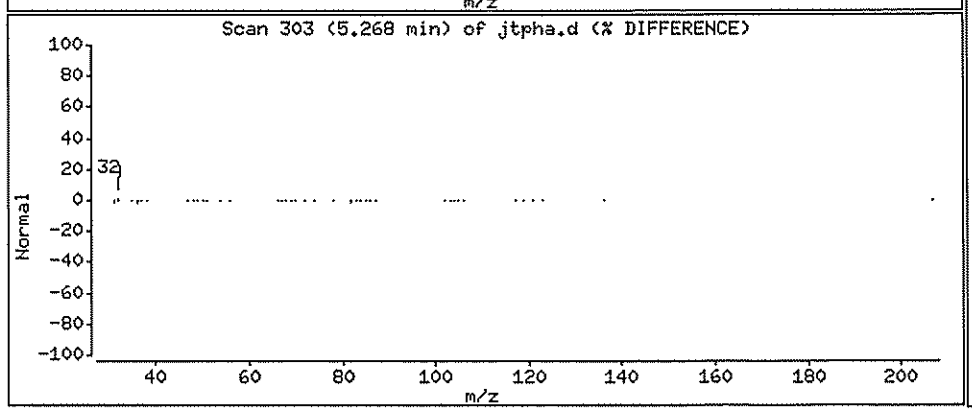
Column phase: Rtx-5 Column diameter: 0.32

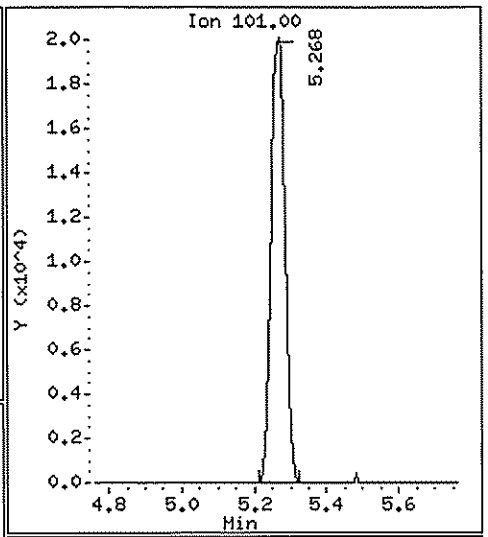
20 Trichlorofluoromethane Concentration: 0.2336 ppb(v/v)

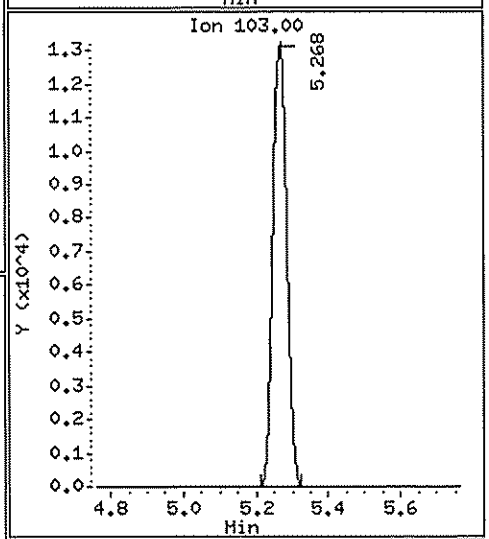


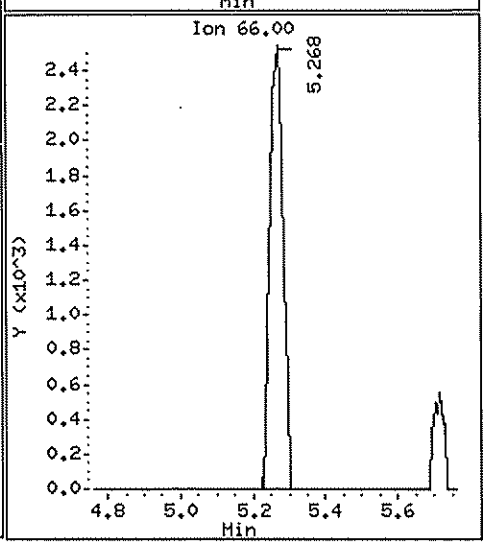












Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d

Date : 17-APR-2007 00:11

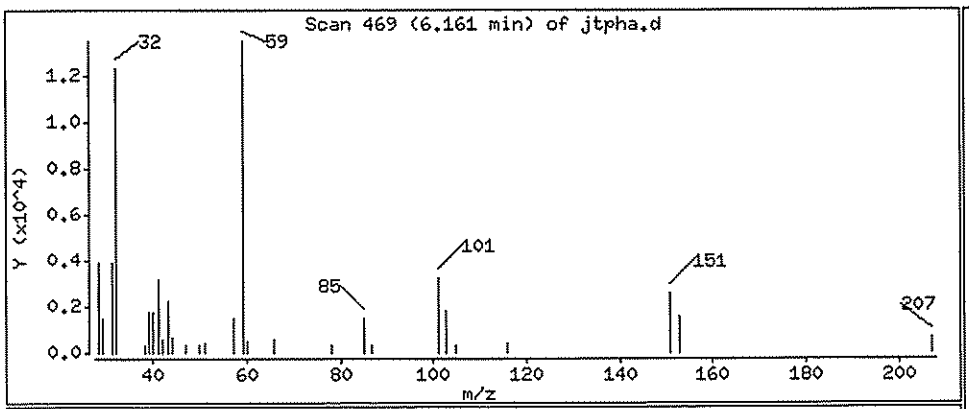
Client ID: SV-11(A.A) Instrument: mj.i

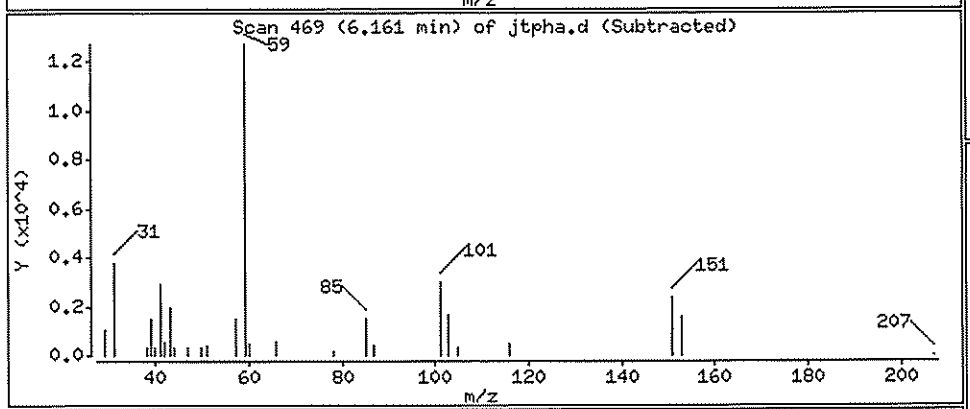
Sample Info: JTPHA1AD,,0,,,

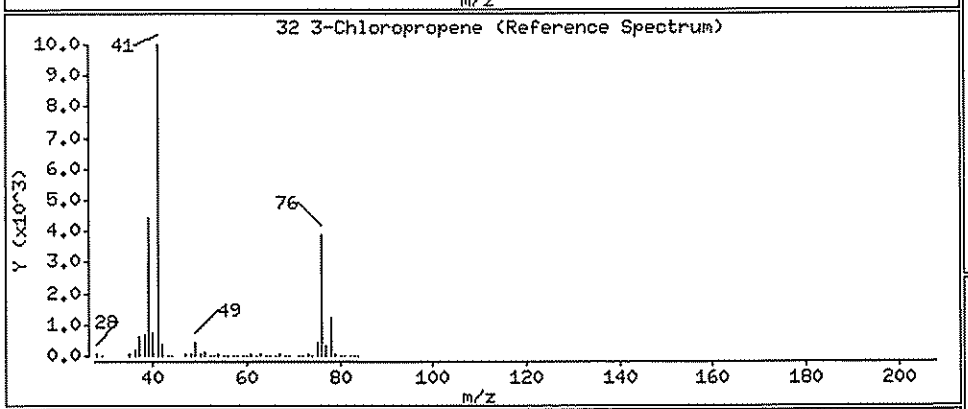
Purge Volume: 500.0 Operator: 7126

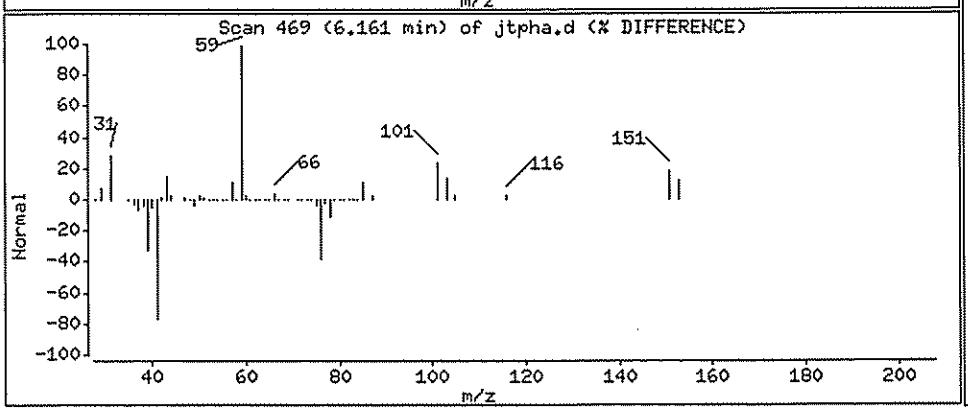
Column phase: Rtx-5 Column diameter: 0.32

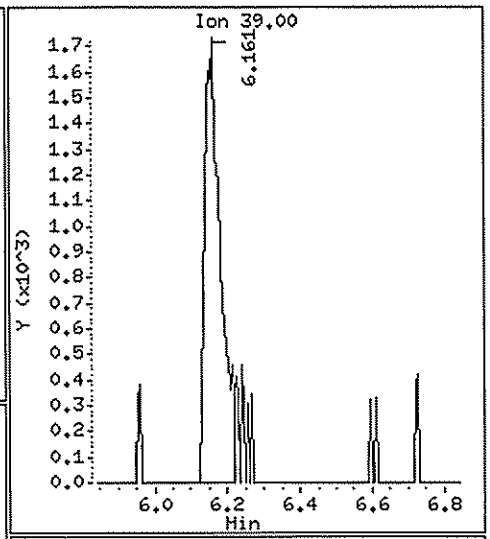
32 3-Chloropropene Concentration: 0.08439 ppb(v/v)

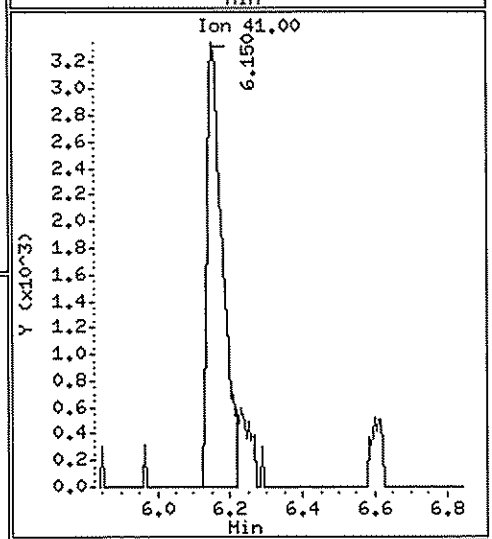


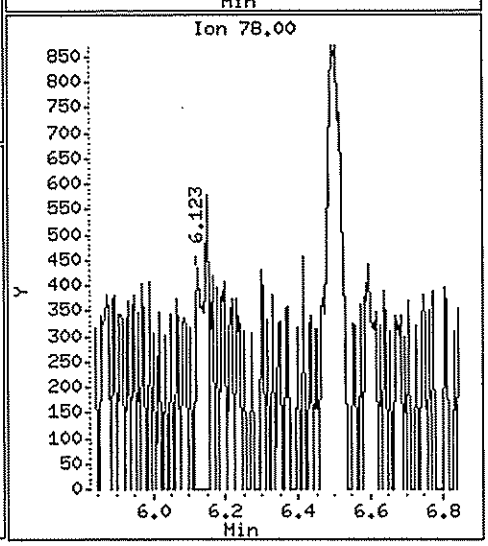












Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d

Date : 17-APR-2007 00:11

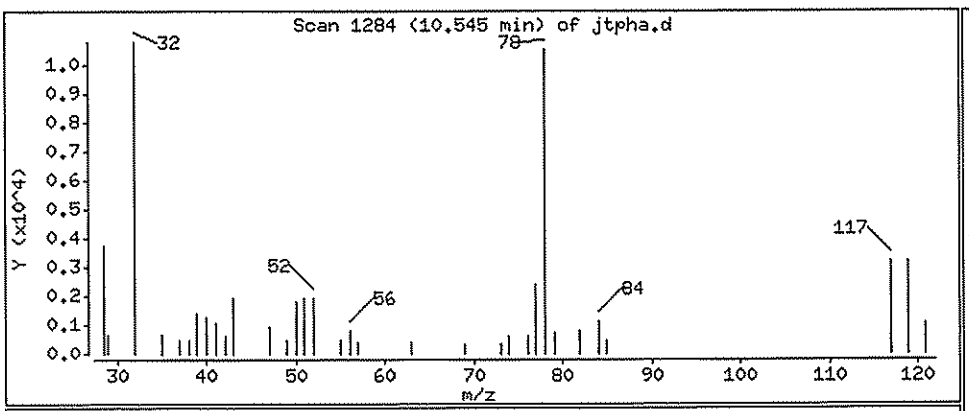
Client ID: SV-11(A.A) Instrument: mj.i

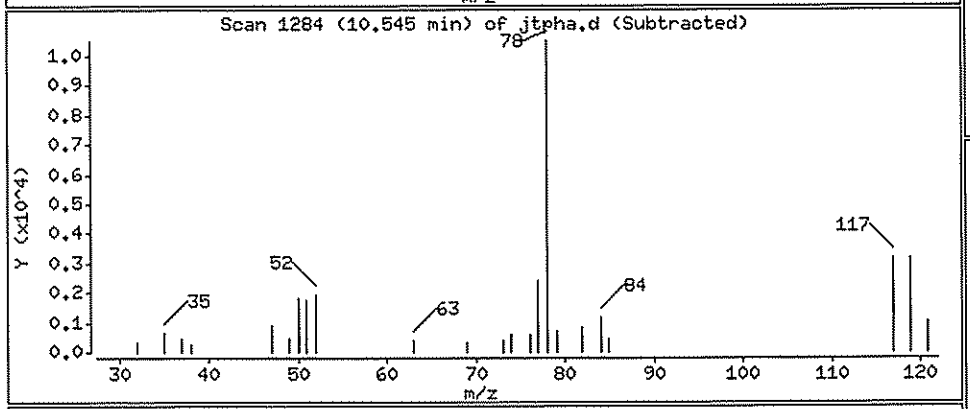
Sample Info: JTPHA1AD,,0,,,

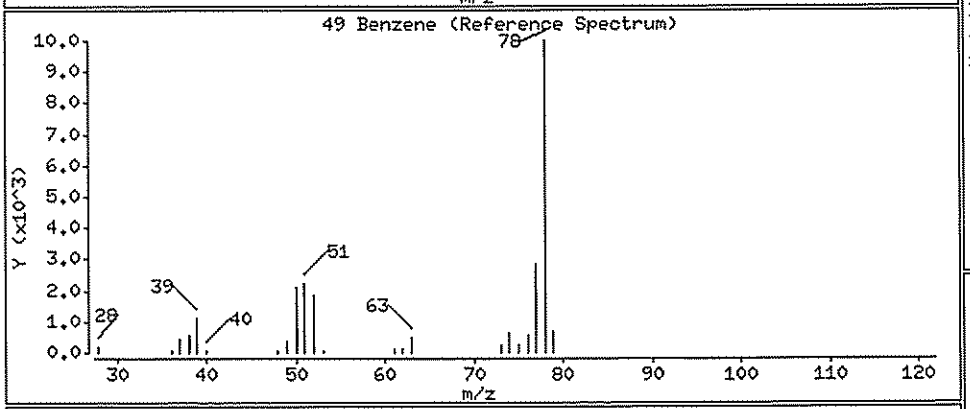
Purge Volume: 500.0 Operator: 7126

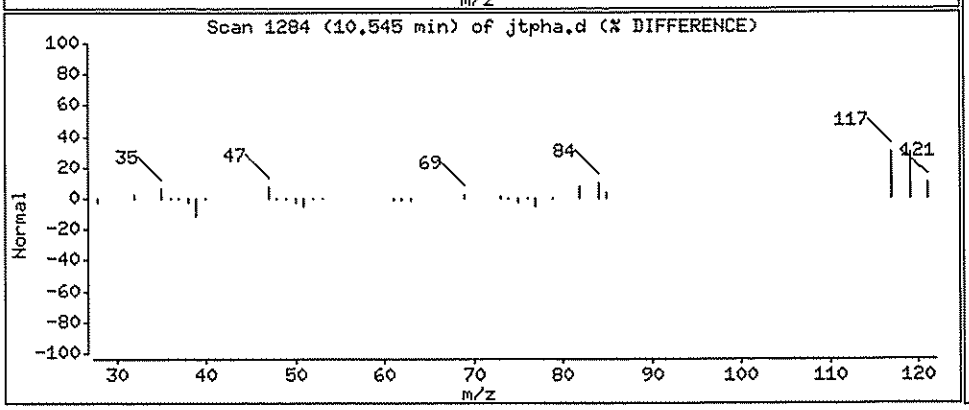
Column phase: Rtx-5 Column diameter: 0.32

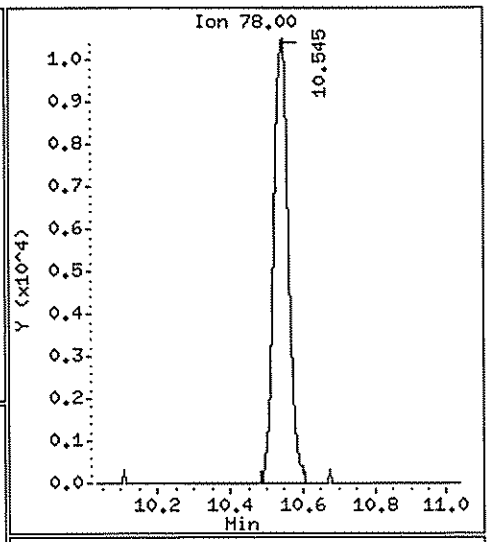
49 Benzene Concentration: 0.1710 ppb(v/v)

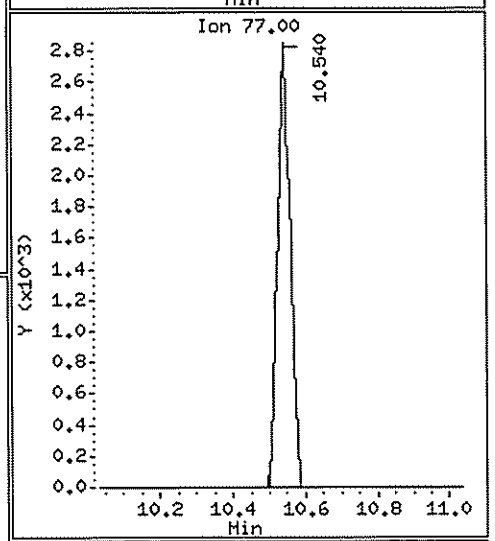


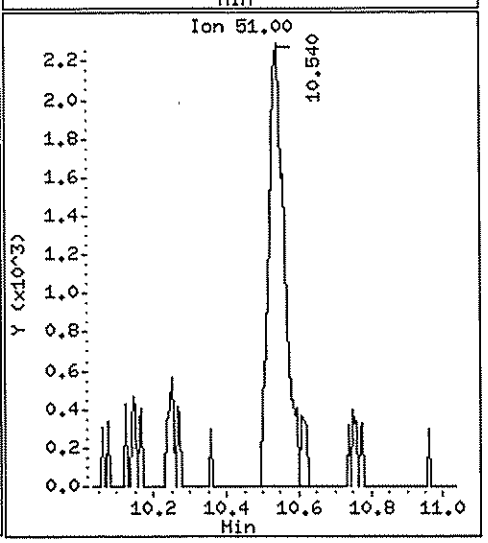












Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d

Date : 17-APR-2007 00:11

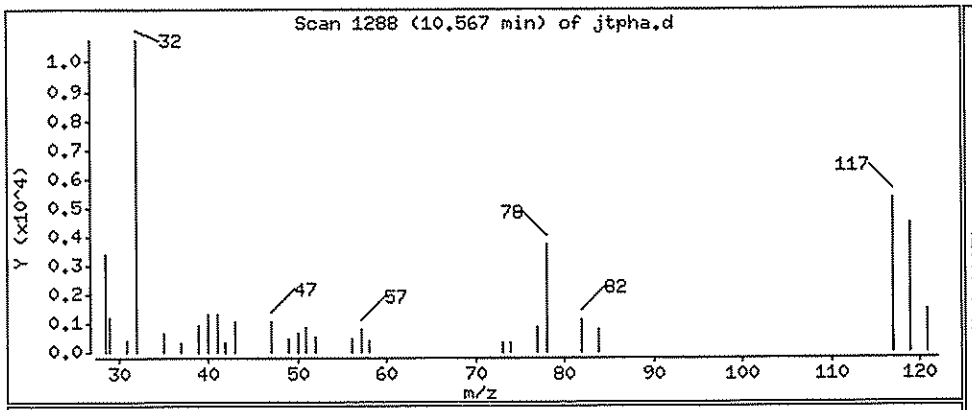
Client ID: SV-11(A.A) Instrument: mj.i

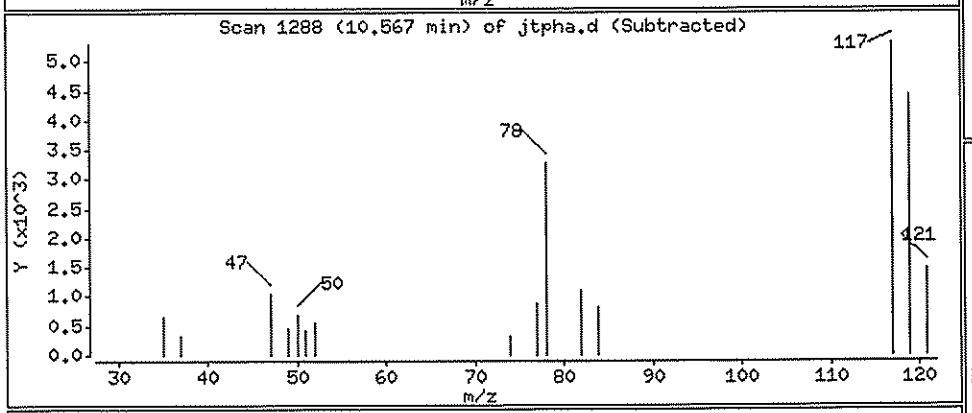
Sample Info: JTPHA1AD,,0,,,

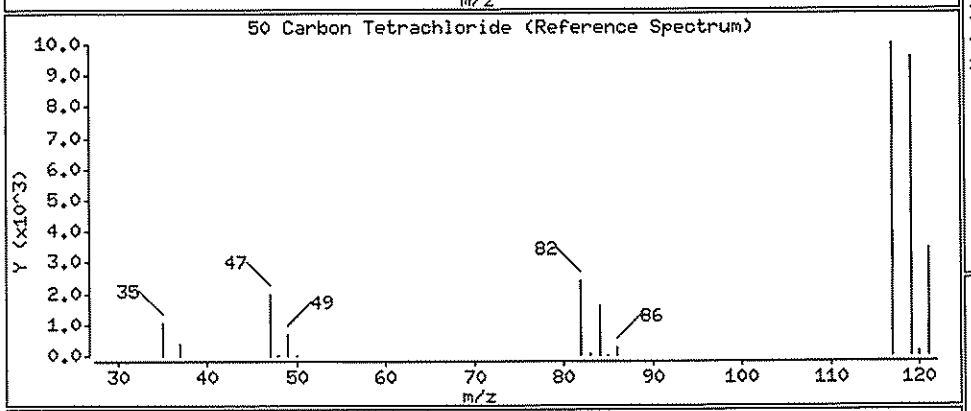
Purge Volume: 500.0 Operator: 7126

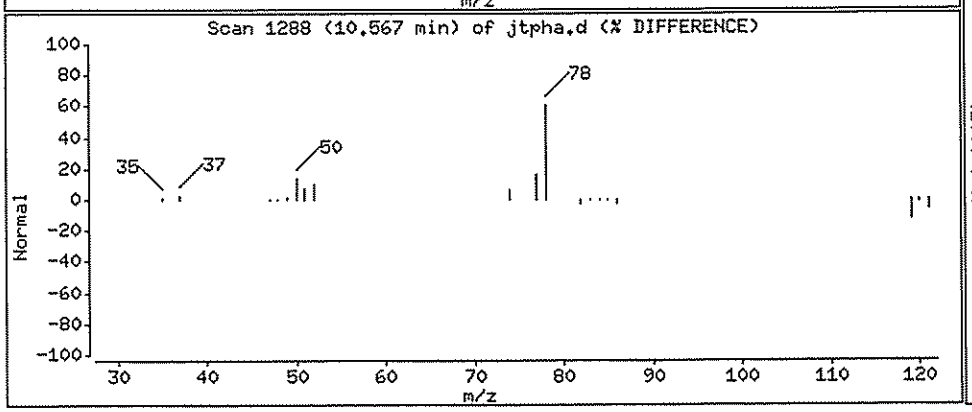
Column phase: Rtx-5 Column diameter: 0.32

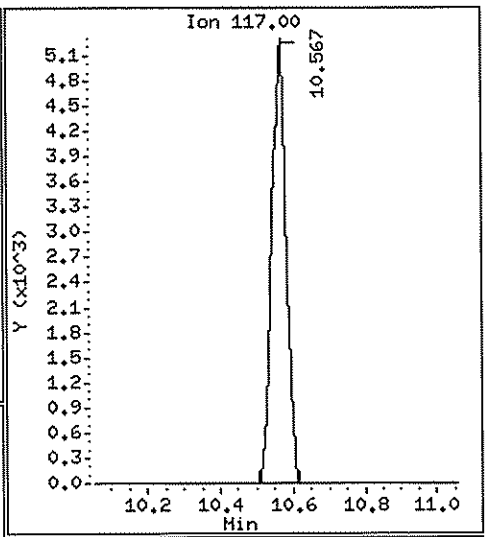
50 Carbon Tetrachloride Concentration: 0.08435 ppb(v/v)

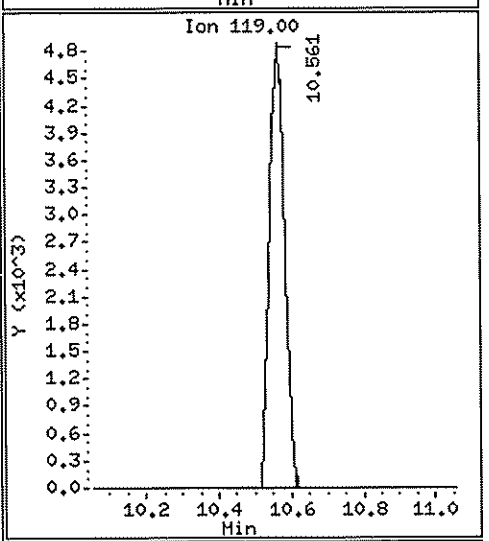


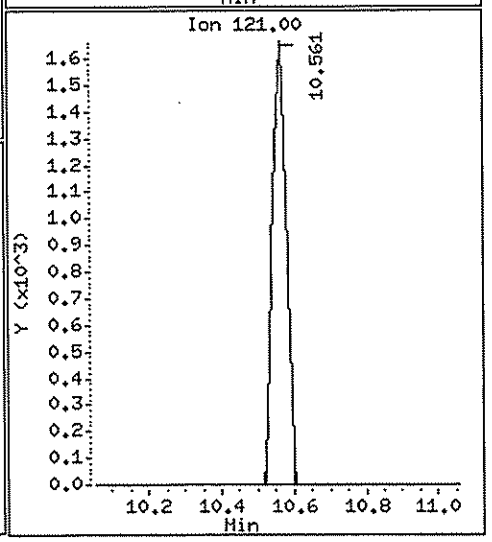












Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d

Date : 17-APR-2007 00:11

Client ID: SV-11(A,A)

Instrument: mj.i

Sample Info: JTPHA1AD,,0,,,

Purge Volume: 500.0

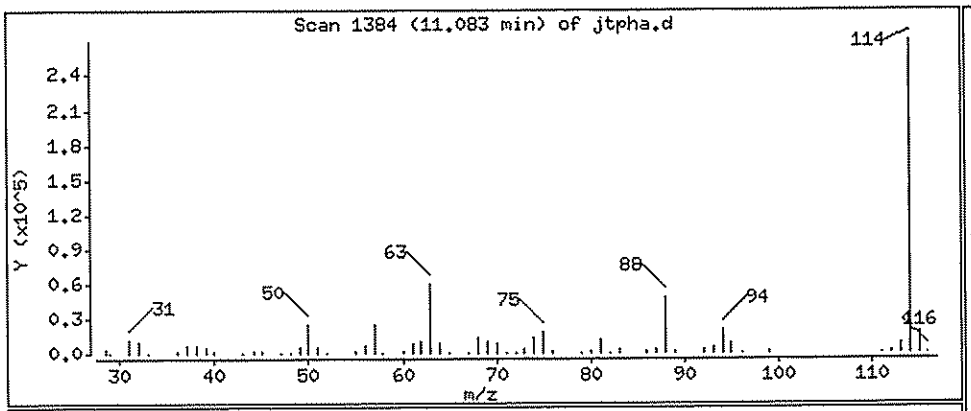
Operator: 7126

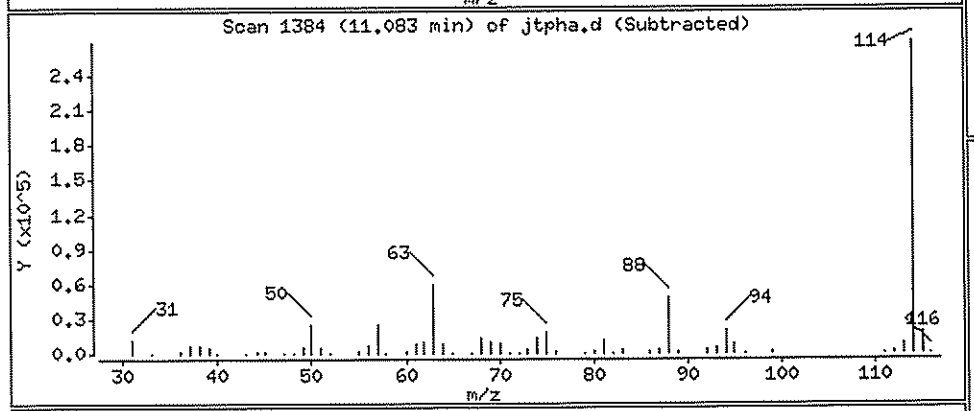
Column phase: Rtx-5

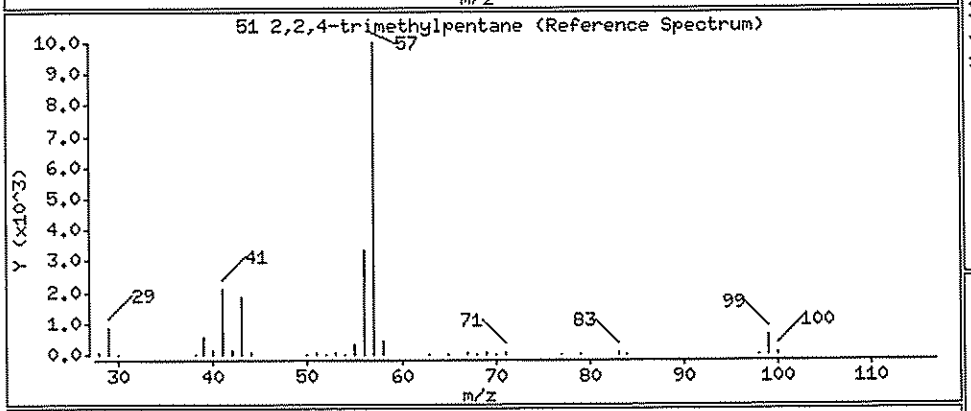
Column diameter: 0.32

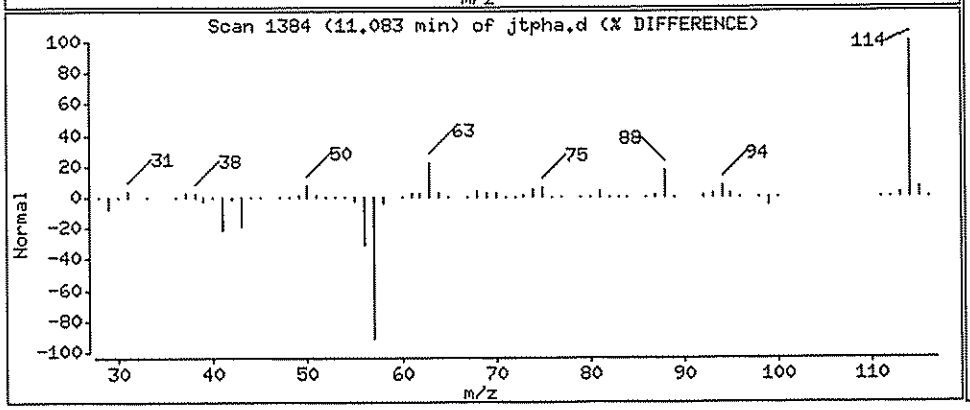
51 2,2,4-trimethylpentane

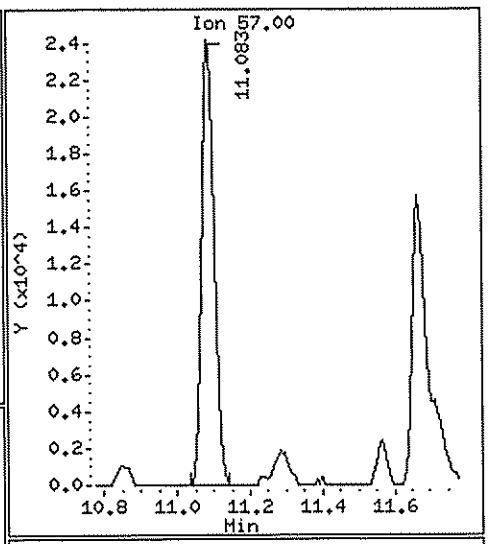
Concentration: 0.2215 ppb(v/v)

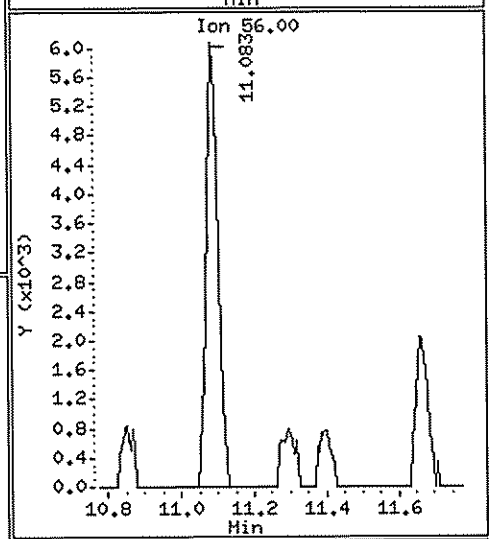


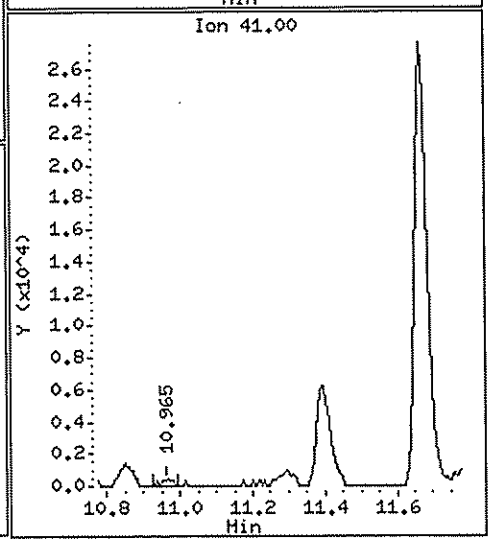












Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d

Date : 17-APR-2007 00:11

Client ID: SV-11(A.A)

Instrument: mj.i

Sample Info: JTPHA1AD,,0,,,

Purge Volume: 500.0

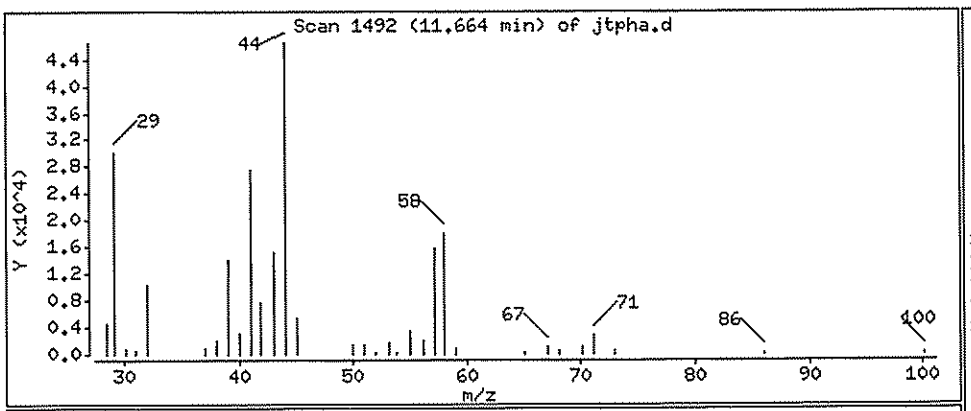
Operator: 7126

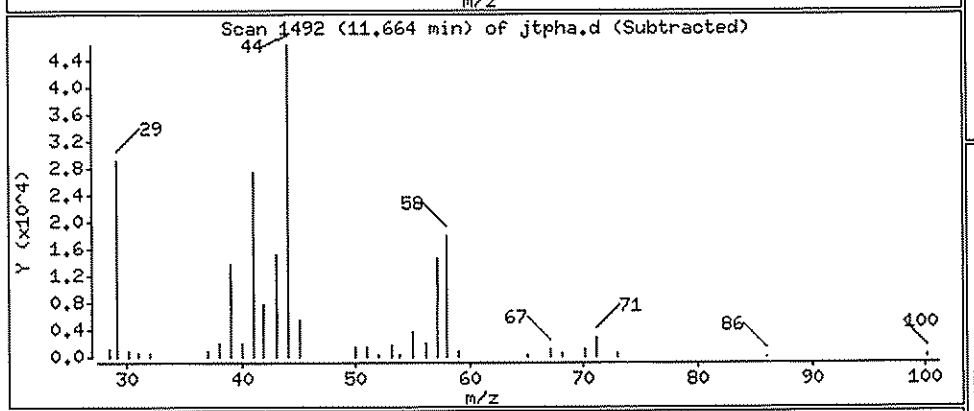
Column phase: Rtx-5

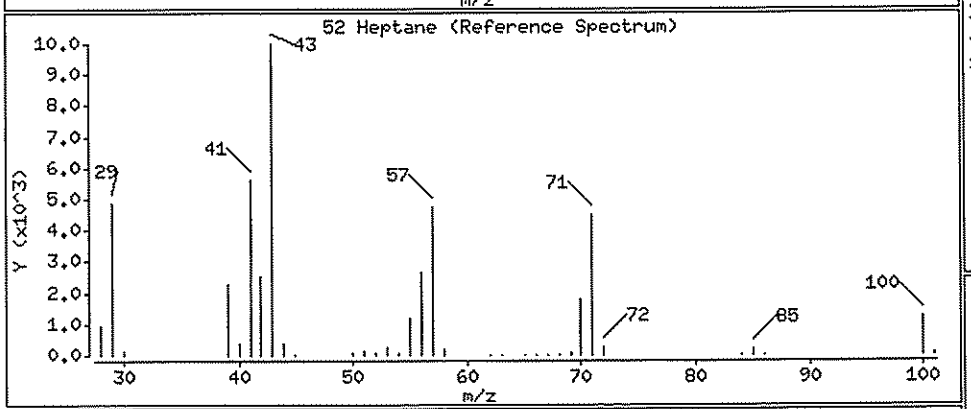
Column diameter: 0.32

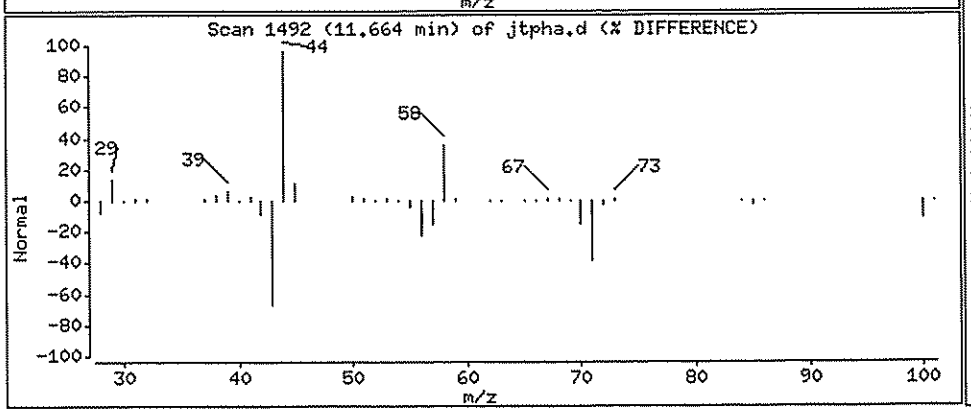
52 Heptane

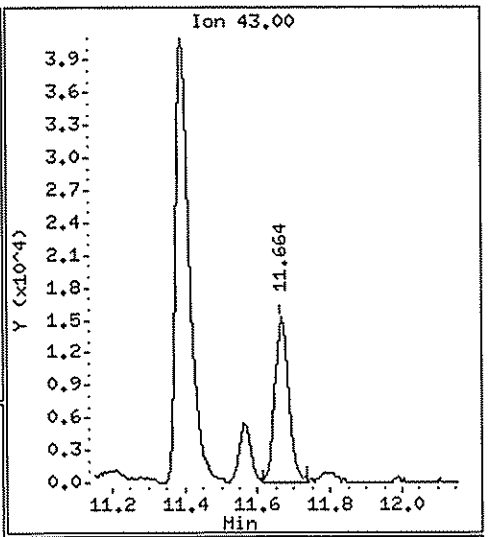
Concentration: 0.4032 ppb(v/v)

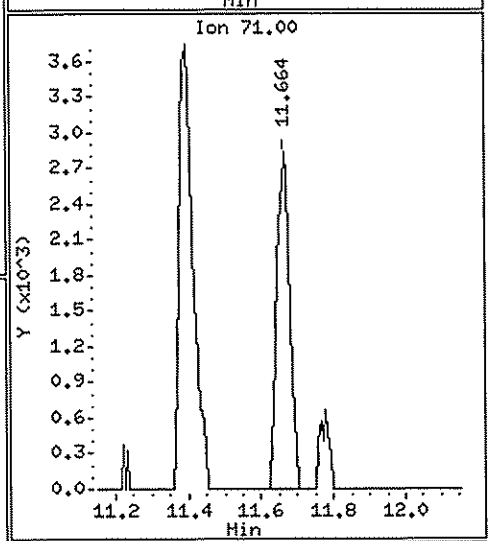


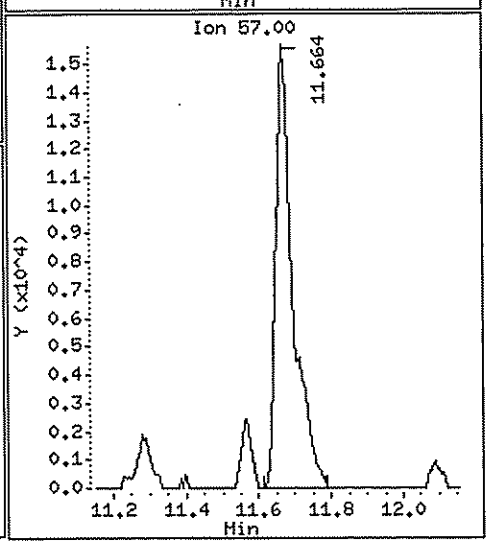












Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d

Date : 17-APR-2007 00:11

Client ID: SV-11(A.A)

Instrument: mj.i

Sample Info: JTPHA1AD,,0,,,

Purge Volume: 500.0

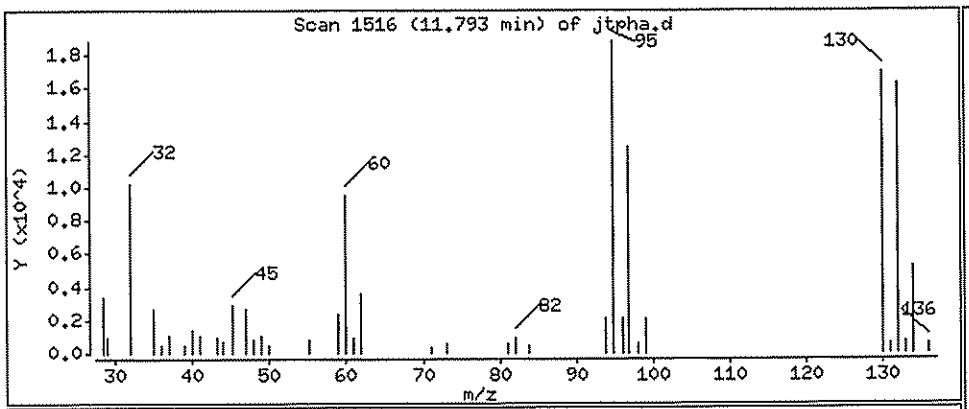
Operator: 7126

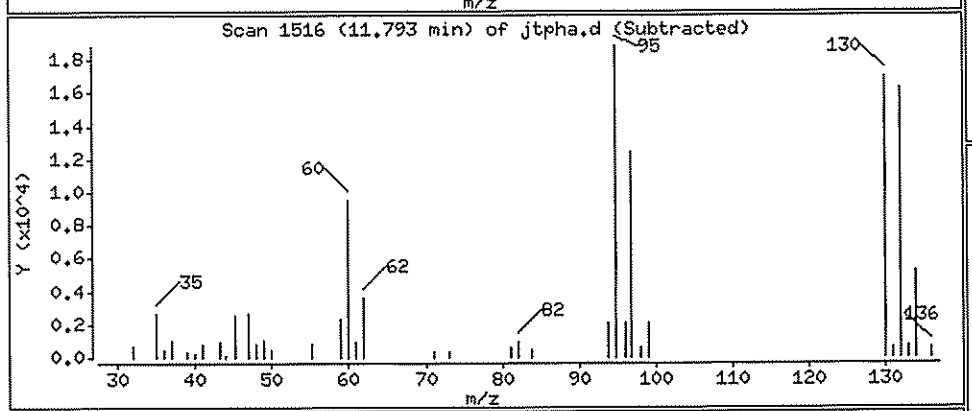
Column phase: Rtx-5

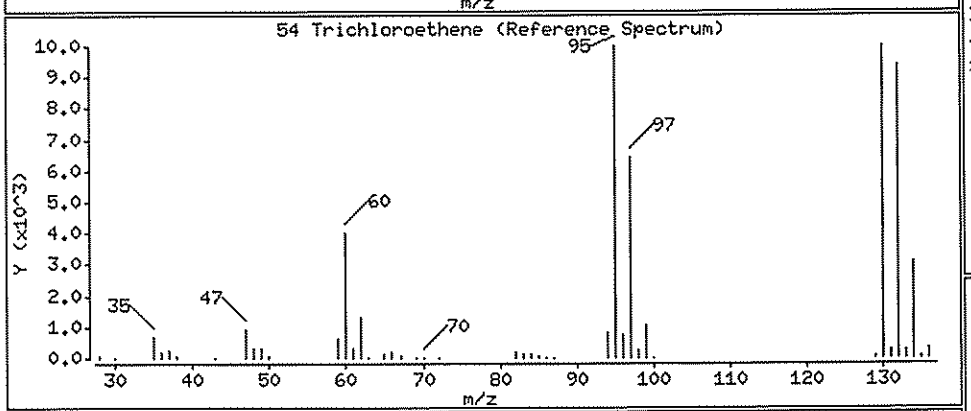
Column diameter: 0.32

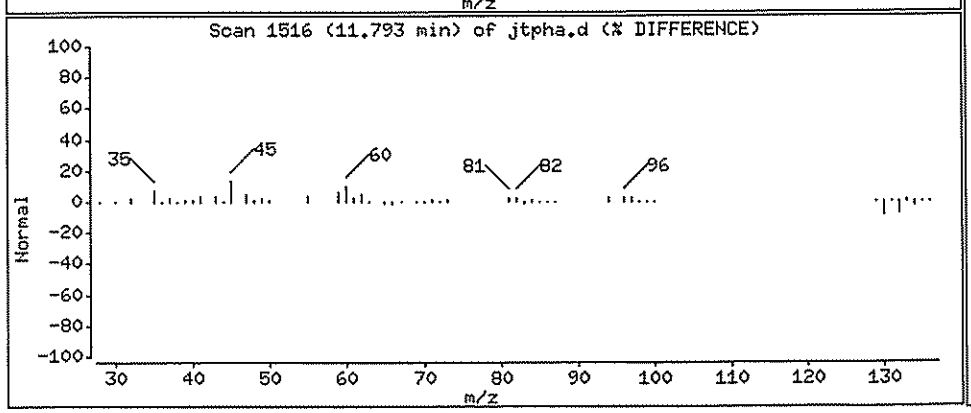
54 Trichloroethene

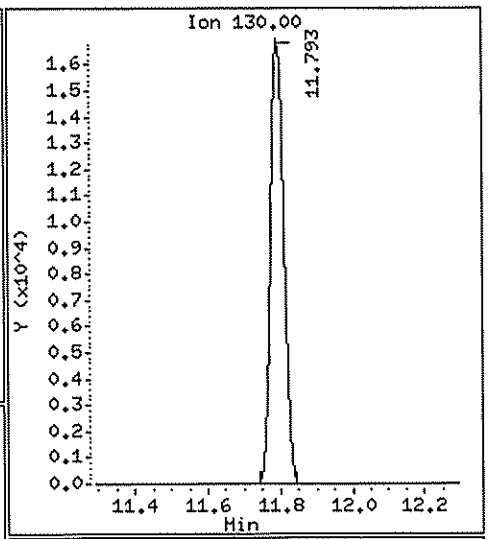
Concentration: 0.4142 ppb(v/v)

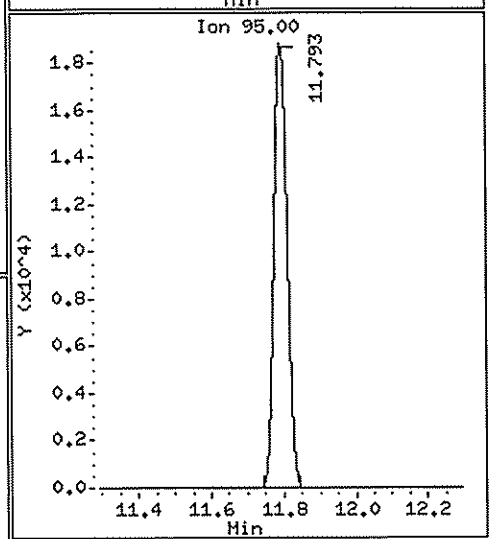


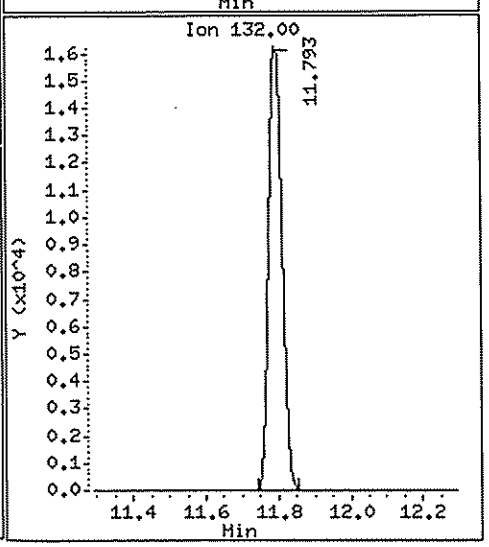












Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d

Date : 17-APR-2007 00:11

Client ID: SV-11(A,A)

Instrument: mj.i

Sample Info: JTPHA1AD,,0,,,

Purge Volume: 500.0

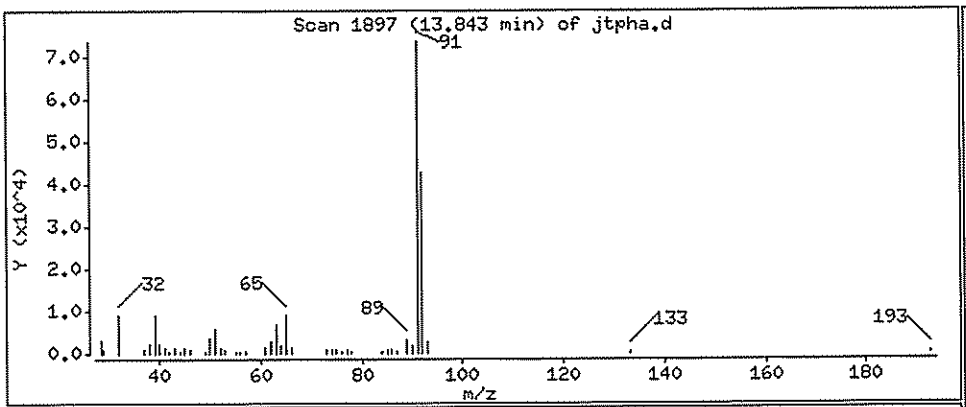
Operator: 7126

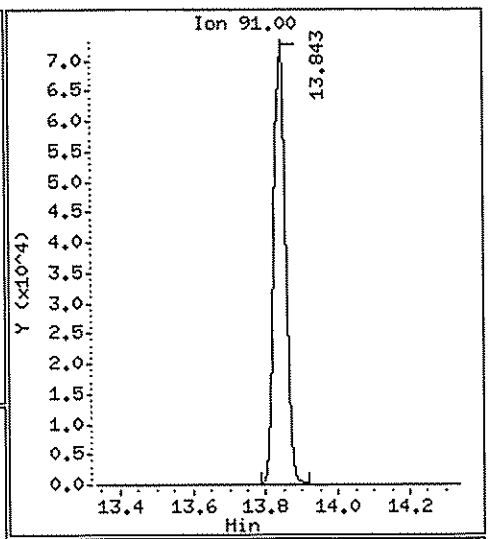
Column phase: Rtx-5

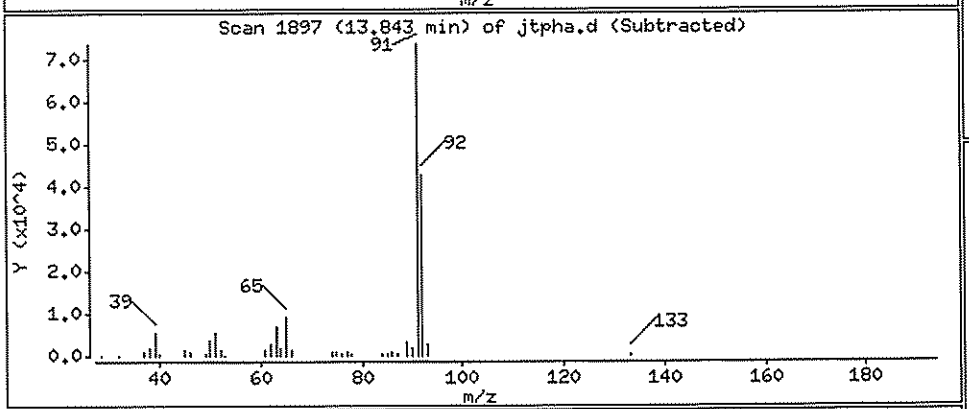
Column diameter: 0.32

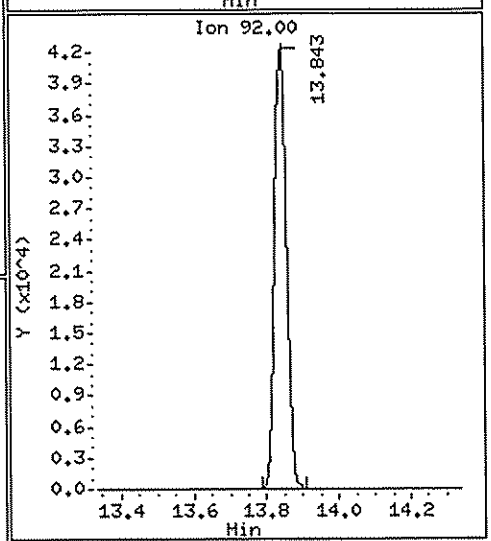
62 Toluene

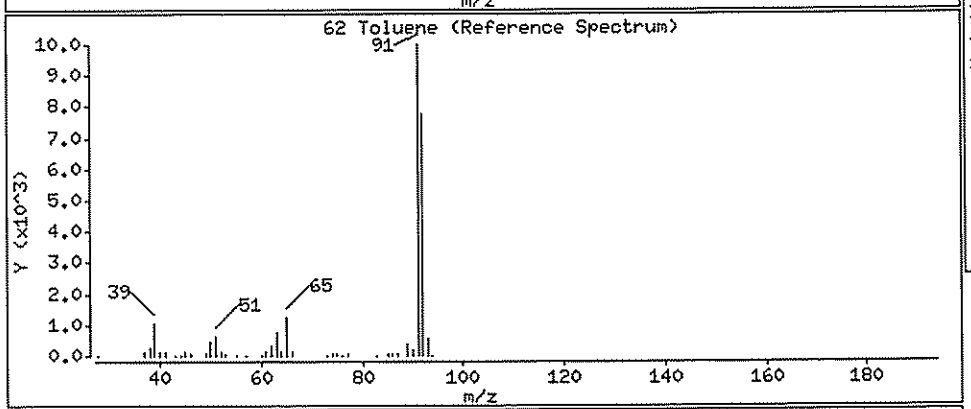
Concentration: 0.9639 ppb(v/v)

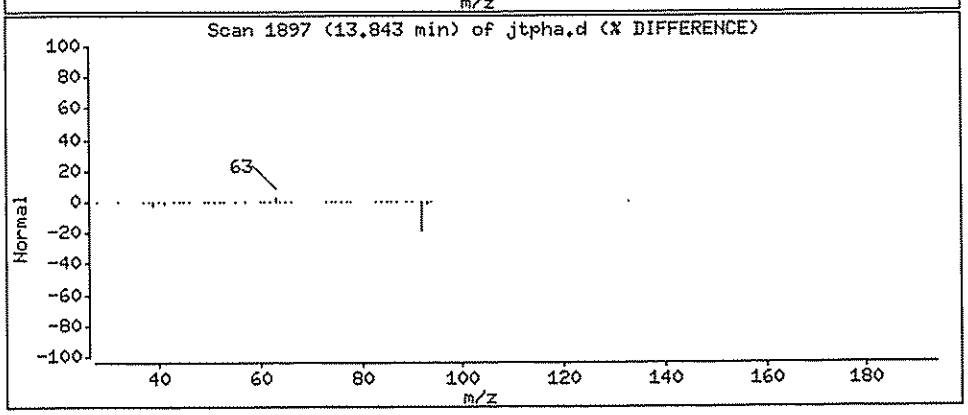












Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d

Date : 17-APR-2007 00:11

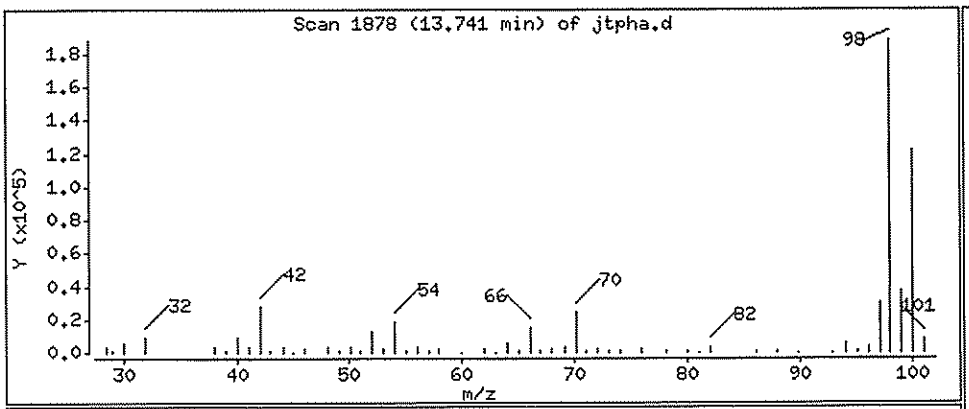
Client ID: SV-11(A.A) Instrument: mj.i

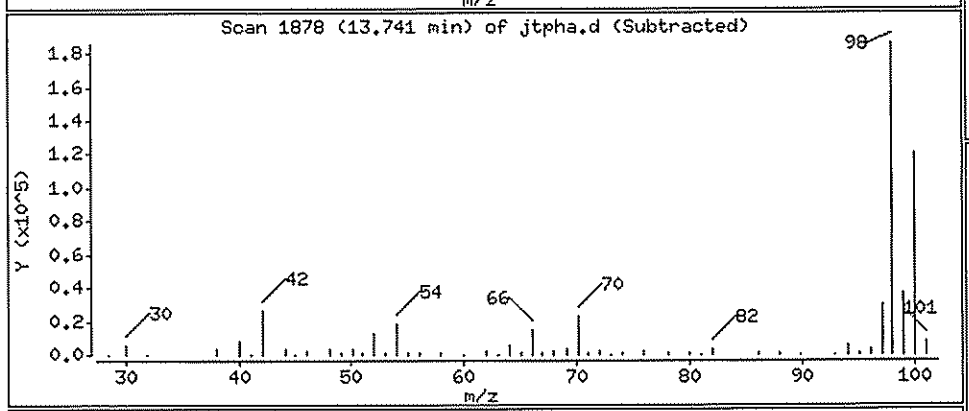
Sample Info: JTPHA1AD,,0,,,

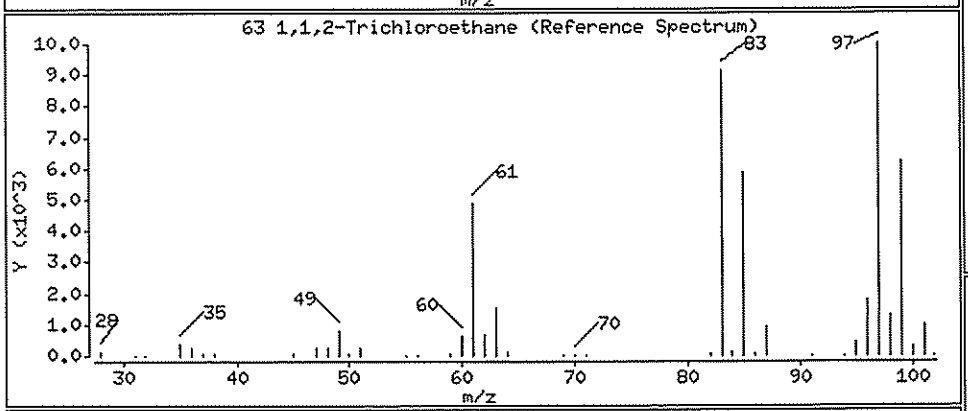
Purge Volume: 500.0 Operator: 7126

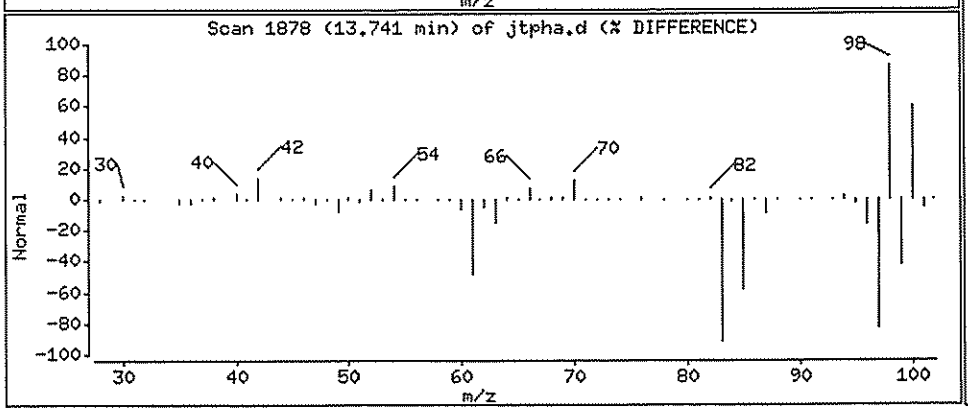
Column phase: Rtx-5 Column diameter: 0.32

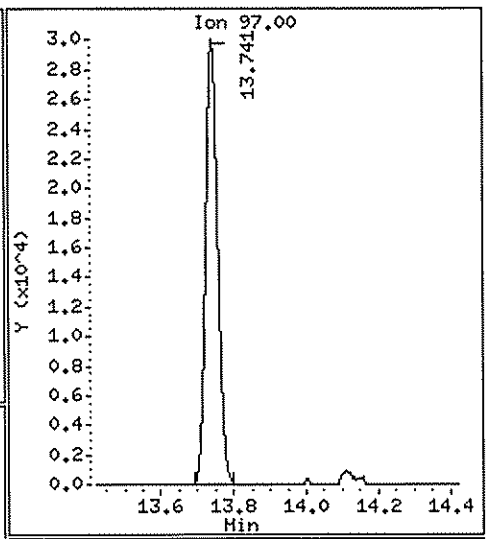
63 1,1,2-Trichloroethane Concentration: 1.256 ppb(v/v)

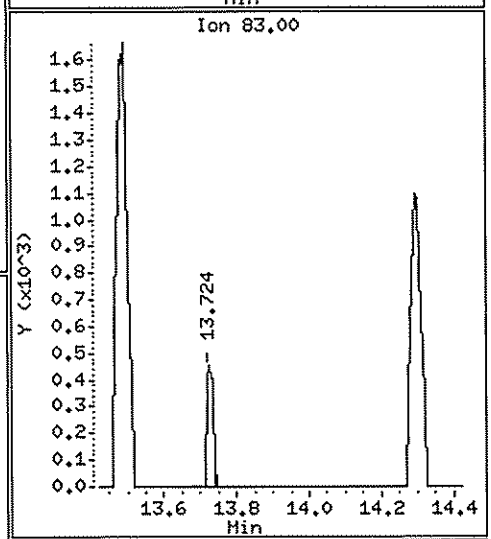


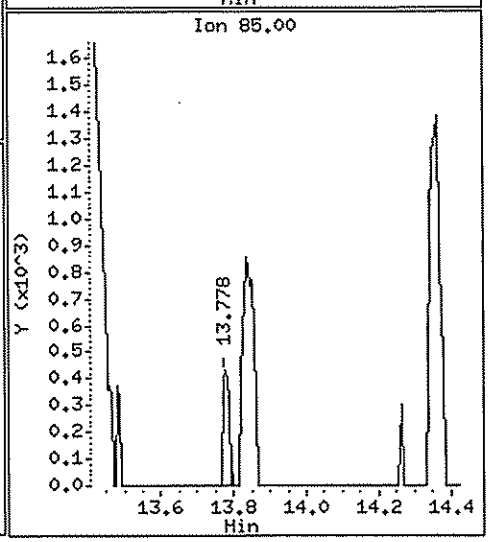












Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d

Date : 17-APR-2007 00:11

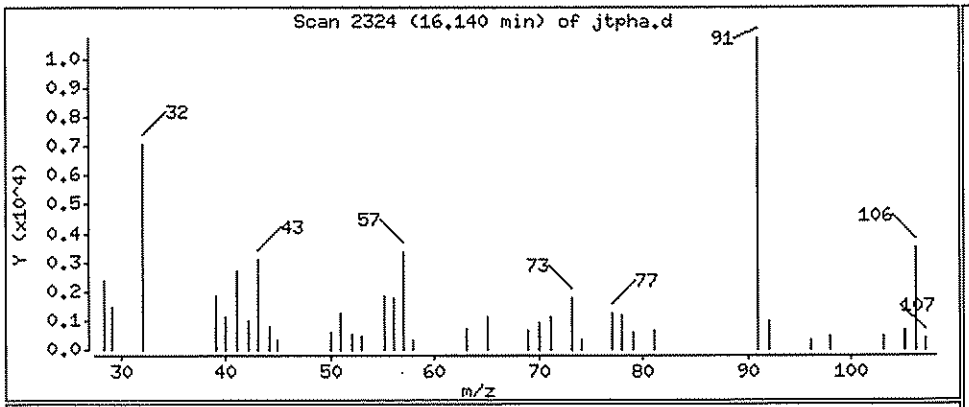
Client ID: SV-11(A.A) Instrument: mj.i

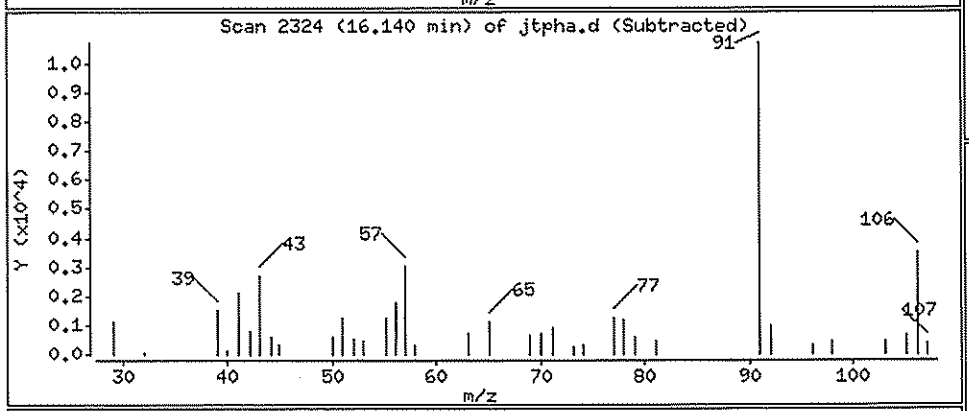
Sample Info: JTPHA1AD,,0,,,

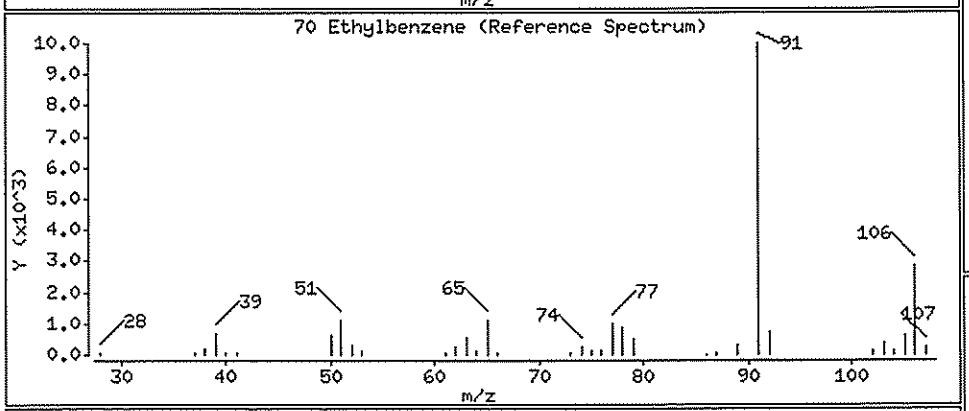
Purge Volume: 500.0 Operator: 7126

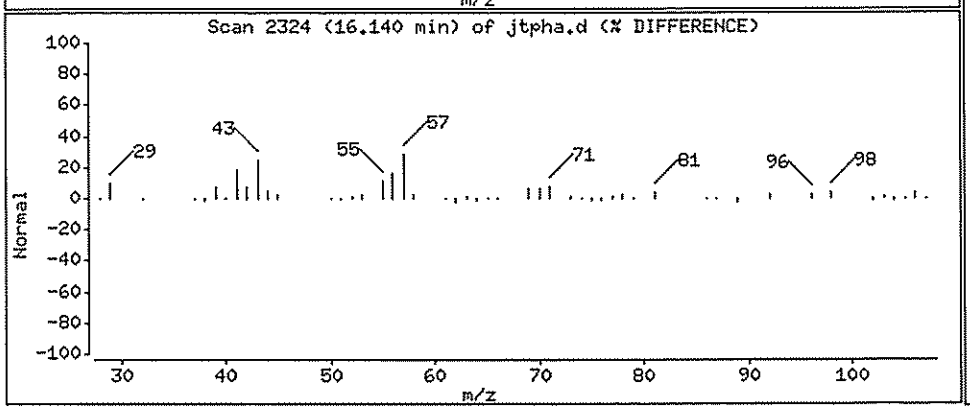
Column phase: Rtx-5 Column diameter: 0.32

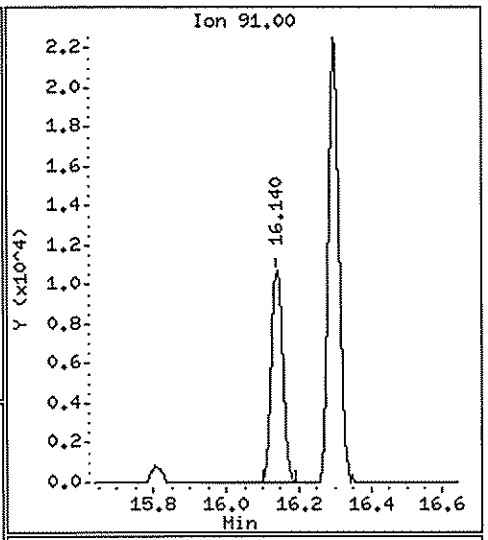
70 Ethylbenzene Concentration: 0.1126 ppb(v/v)

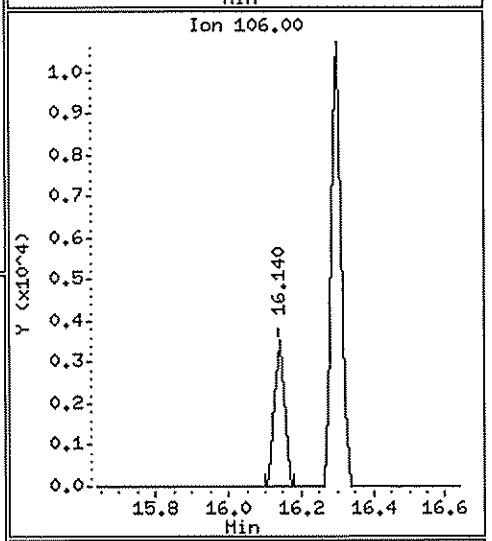


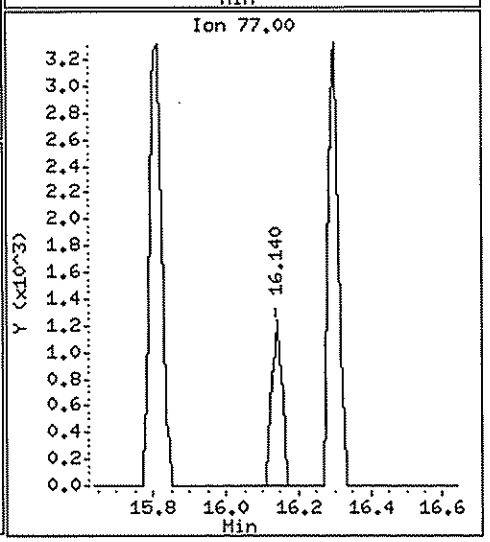












Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d

Date : 17-APR-2007 00:11

Client ID: SV-11(A,A)

Instrument: mj.i

Sample Info: JTPHA1AD,,0,,,

Purge Volume: 500.0

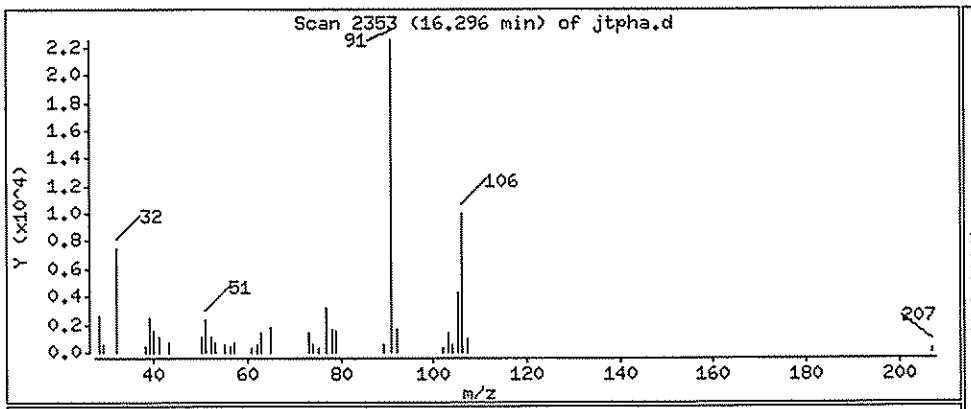
Operator: 7126

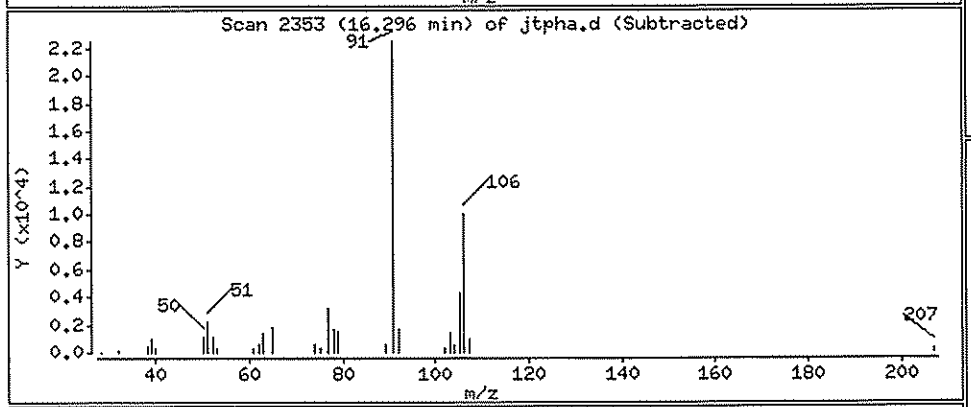
Column phase: Rtx-5

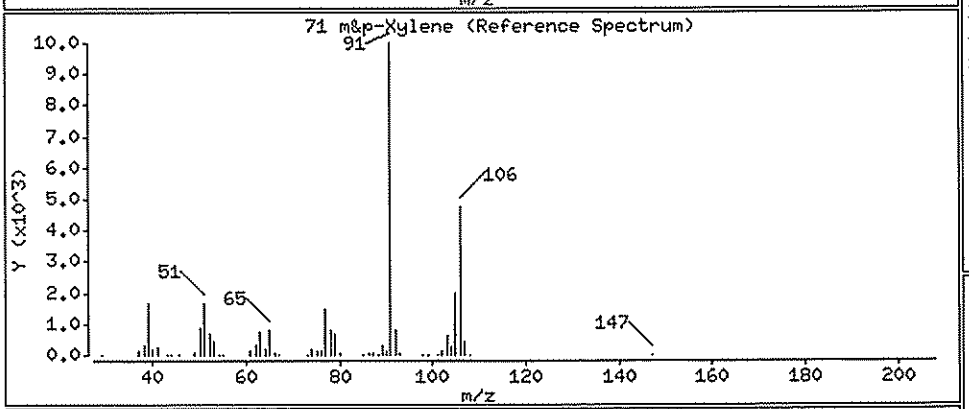
Column diameter: 0.32

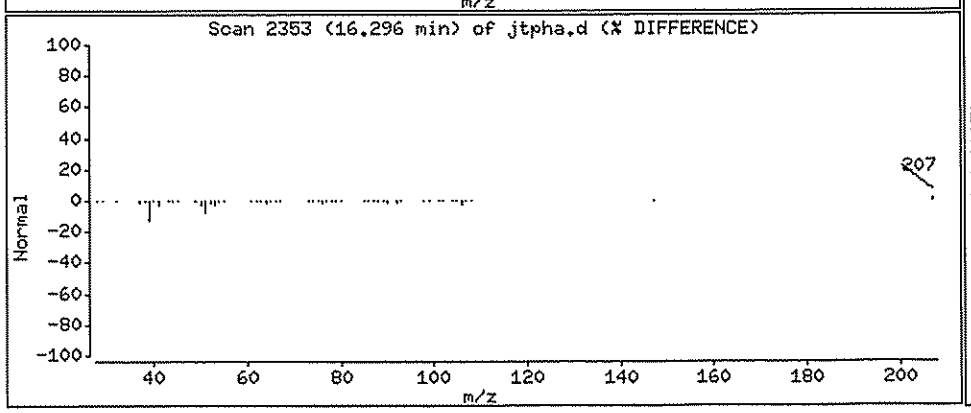
71 m&p-Xylene

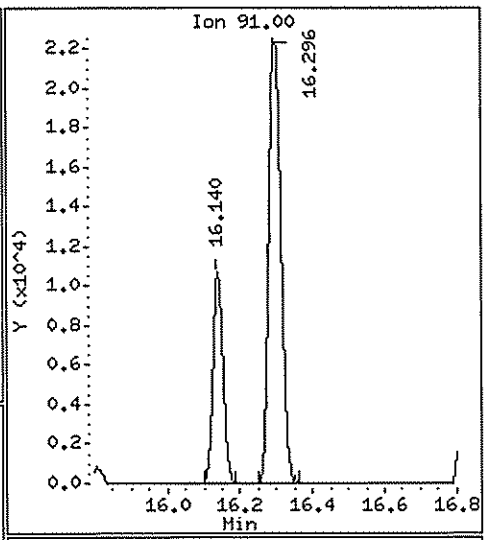
Concentration: 0.3301 ppb(v/v)

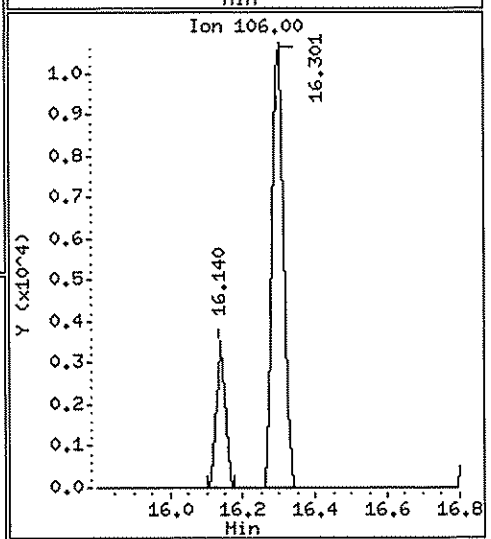


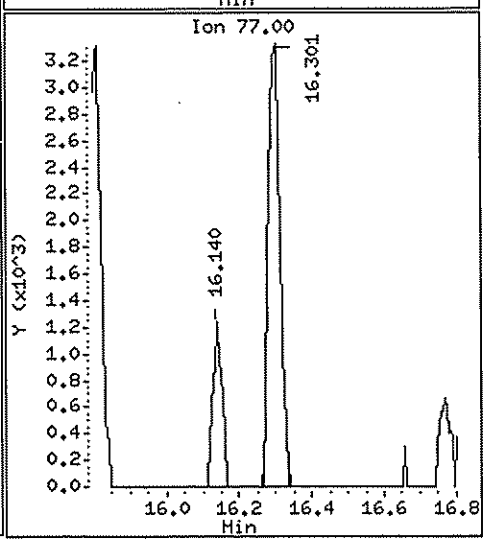












Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d

Date : 17-APR-2007 00:11

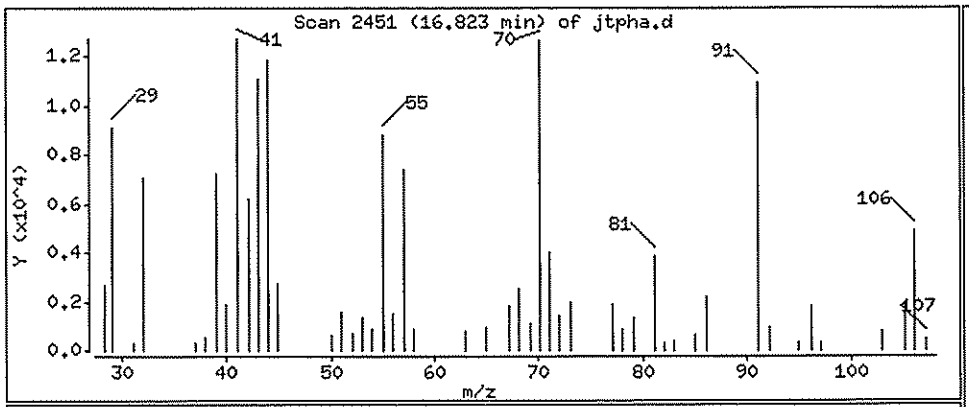
Client ID: SV-11(A,A) Instrument: mj.i

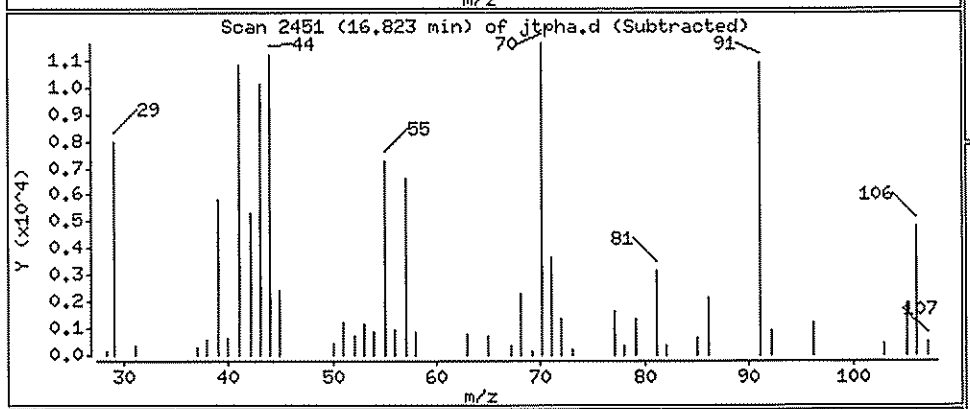
Sample Info: JTPHA1AD,,0,,,

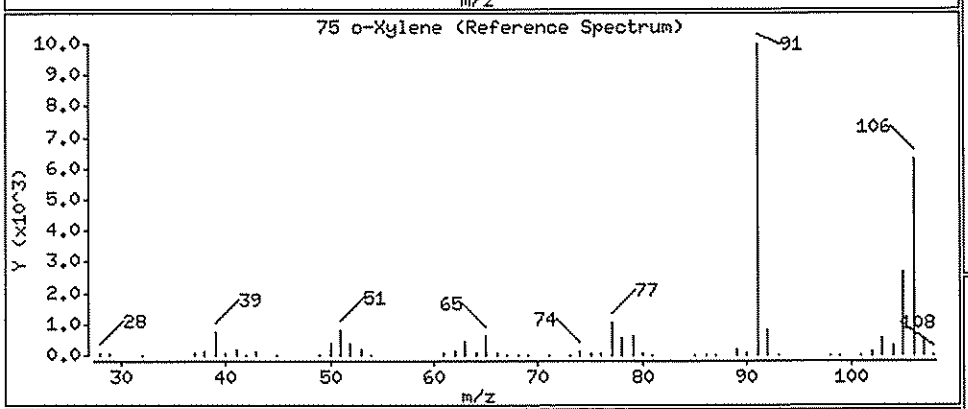
Purge Volume: 500.0 Operator: 7126

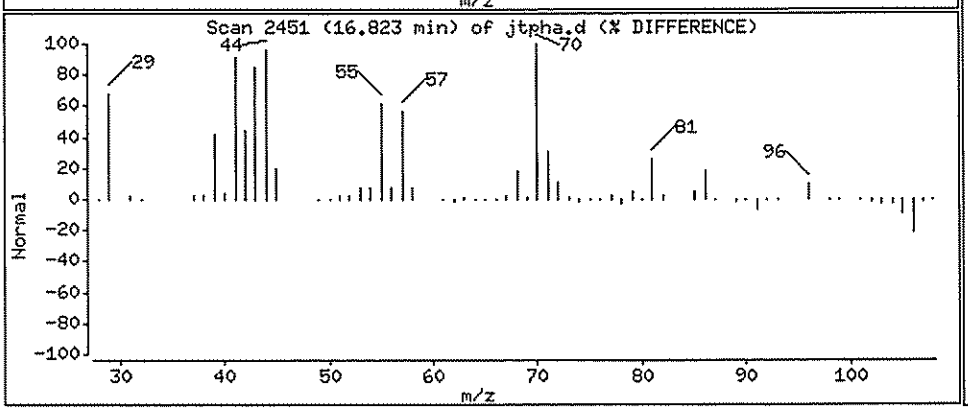
Column phase: Rtx-5 Column diameter: 0.32

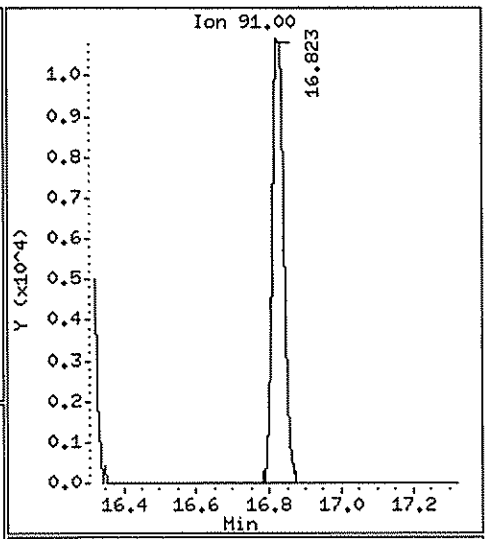
75 o-Xylene Concentration: 0.1381 ppb(v/v)

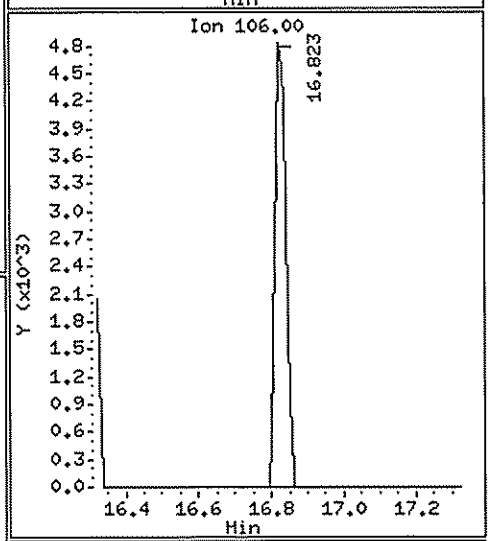


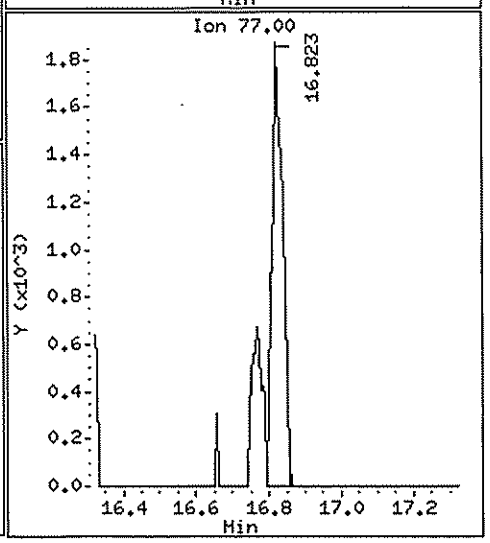












Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d

Date : 17-APR-2007 00:11

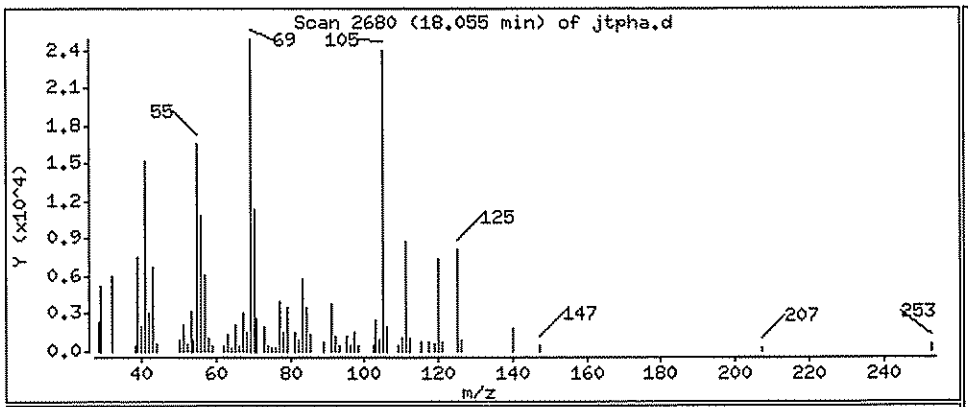
Client ID: SV-11(A,A) Instrument: mj.i

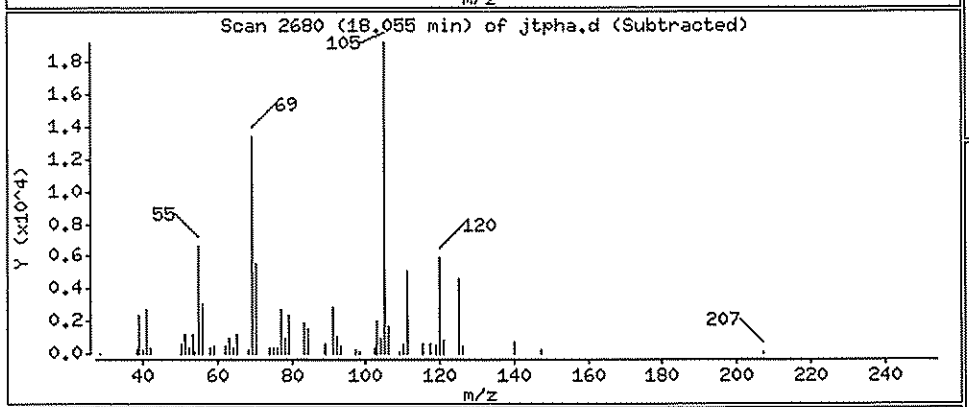
Sample Info: JTPHA1AD,,0,,,

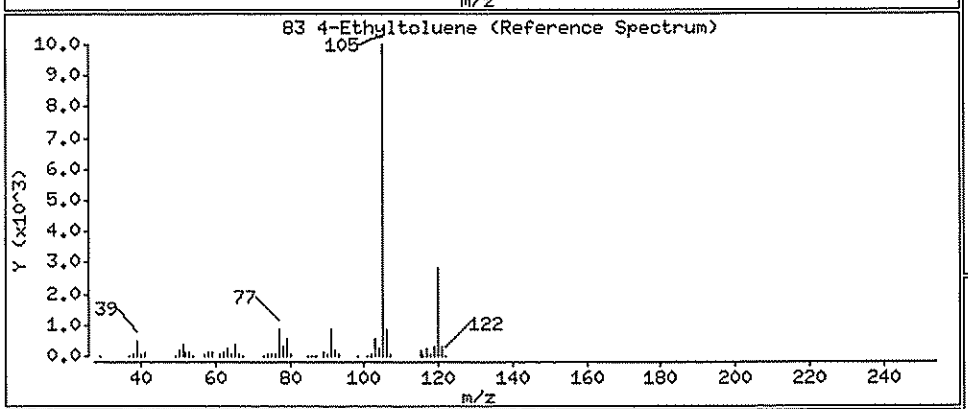
Purge Volume: 500.0 Operator: 7126

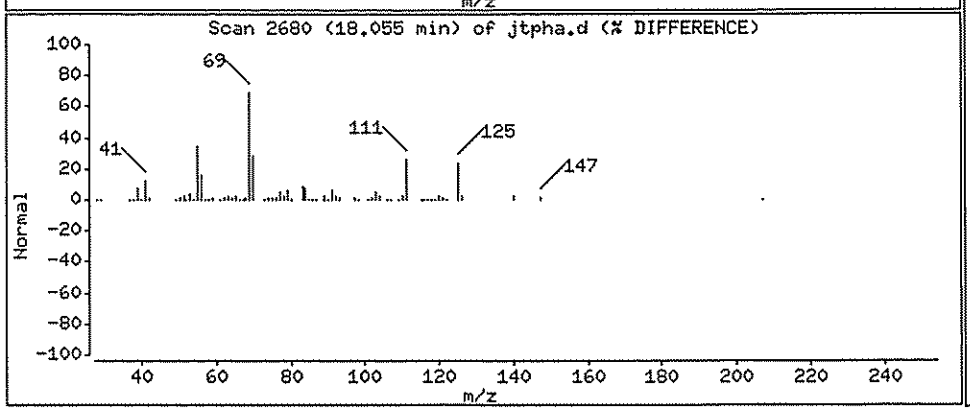
Column phase: Rtx-5 Column diameter: 0.32

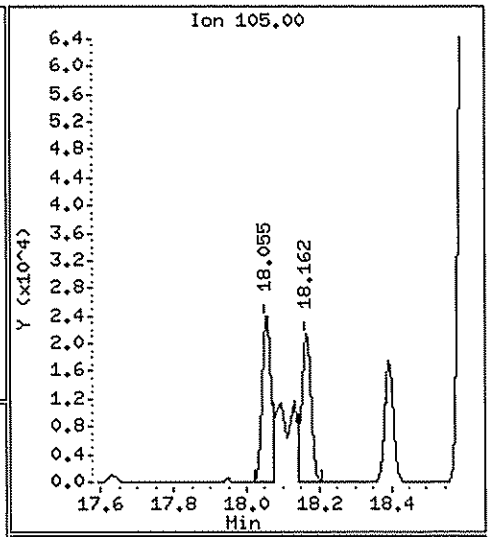
83 4-Ethyltoluene Concentration: 0.2104 ppb(v/v)

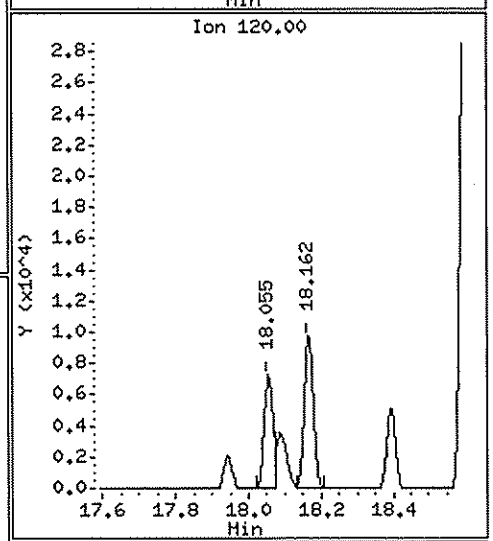


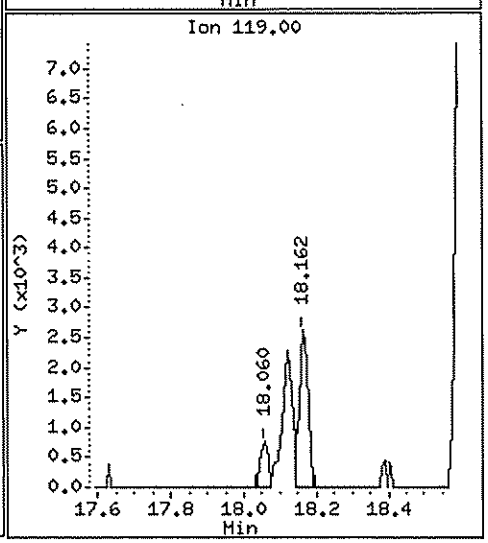












Data File: /var/chem/gcms/mj.i/J041607.b/jtpha.d

Date : 17-APR-2007 00:11

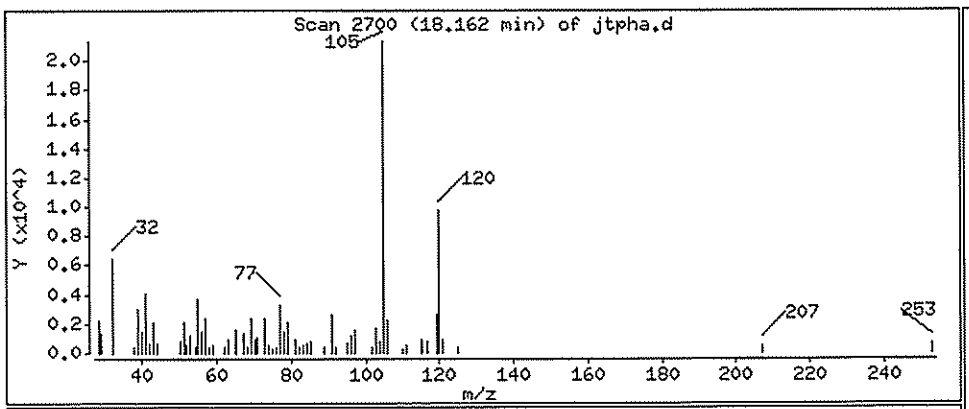
Client ID: SV-11(A.A) Instrument: mj.i

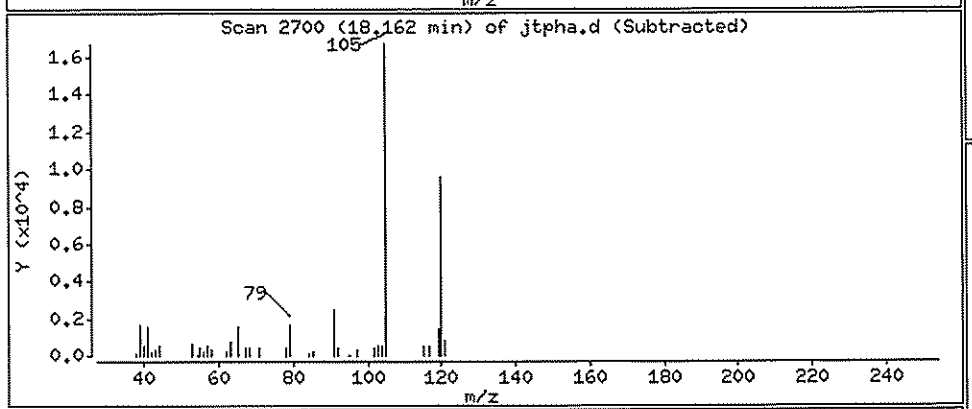
Sample Info: JTPHA1AD,,0,,,

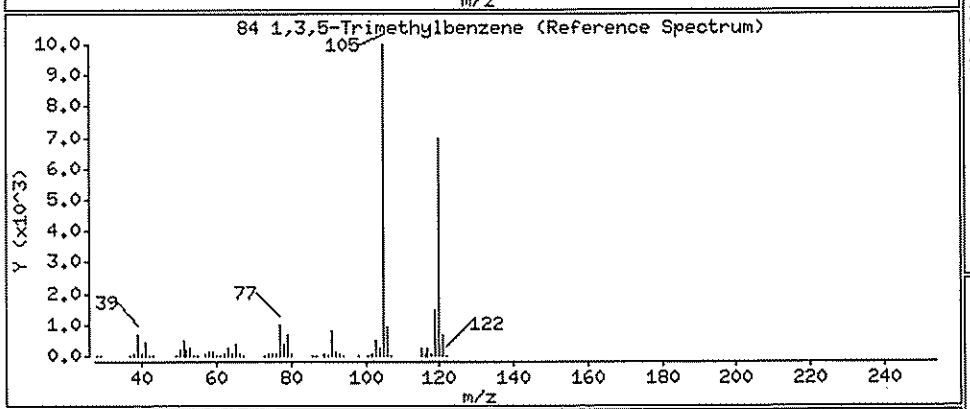
Purge Volume: 500.0 Operator: 7126

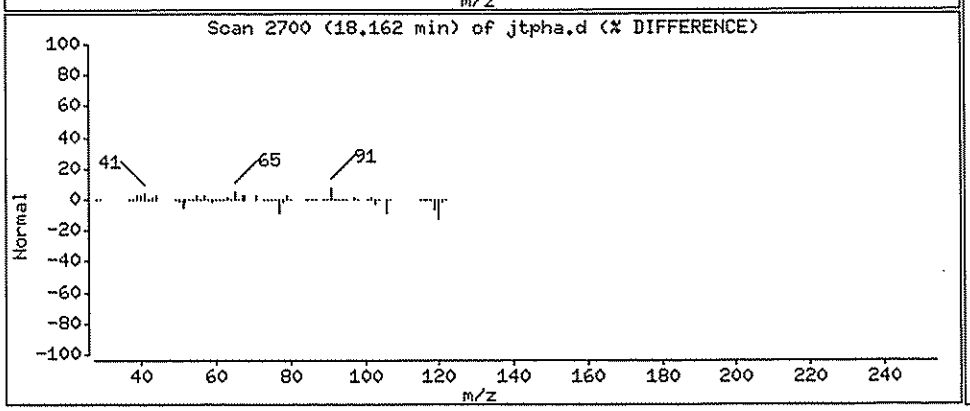
Column phase: Rtx-5 Column diameter: 0.32

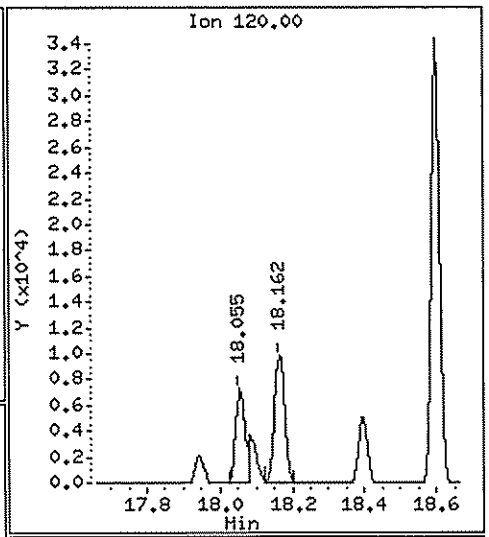
84 1,3,5-Trimethylbenzene Concentration: 0.2342 ppb(v/v)

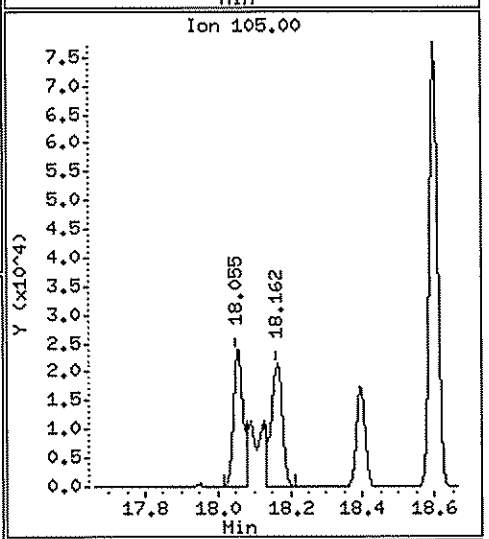


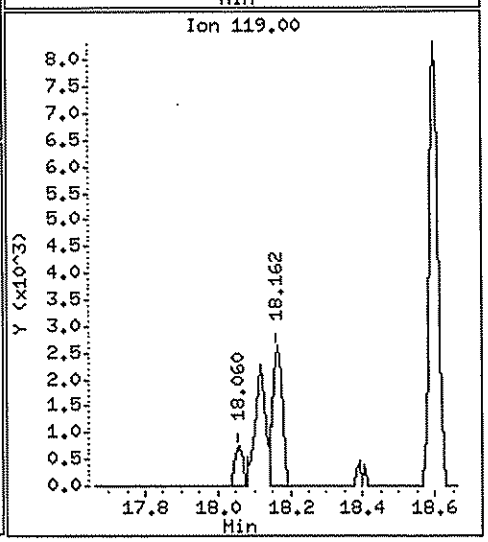












AKRF-White Plains

Client Sample ID: SV-10(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 003 **Work Order #** JTPHC1AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7107200
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	**0.093**	**0.080**	**0.41**	**0.35**
Trichlorofluoromethane	**0.26**	**0.080**	**1.4**	**0.45**
n-Heptane	ND	0.20	ND	0.82
n-Hexane	ND	0.20	ND	0.70
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.18**	**0.080**	**0.57**	**0.26**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**1.0**	**0.080**	**3.8**	**0.30**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	**0.39**	**0.040**	**2.1**	**0.21**
1,3,5-Trimethylbenzene	**0.24**	**0.080**	**1.2**	**0.39**
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	**0.11**	**0.080**	**0.48**	**0.35**
Methyl tert-butyl ether	ND	0.40	ND	1.4
m-Xylene & p-Xylene	**0.30**	**0.080**	**1.3**	**0.35**
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	**0.089**	**0.040**	**0.56**	**0.25**
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	ND	0.20	ND	0.69
Dichlorodifluoromethane	**0.52**	**0.080**	**2.6**	**0.40**
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37

AKRF-White Plains

Client Sample ID: SV-10(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 003 **Work Order #** JTPHC1AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	107	70 - 130
Toluene-d8	103	70 - 130
4-Bromofluorobenzene	102	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TO-14 _rev5.rpt version 5.0.103 10/12/2006

Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d
Report Date: 19-Apr-2007 18:59

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041607.b/jtphc.d
Lab Smp Id: JTPHC1AD Client Smp ID: SV-10(A.A)
Inj Date : 17-APR-2007 00:49
Operator : 7126 Inst ID: mj.i
Smp Info : JTPHC1AD,,0,,,
Misc Info : J041607,TO15,magna.sub,,,500 ML
Comment :
Method : /var/chem/gcms/mj.i/J041607.b/TO15.m
Meth Date : 19-Apr-2007 17:51 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: magna.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.900	8.899	(1.000)	160937	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.089	11.083	(1.000)	639566	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.807	15.806	(1.000)	575380	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.911	9.905	(0.894)	173437	4.26168	4.262
$ 5 Toluene-d8	98	13.725	13.724	(0.868)	574972	4.10639	4.106
$ 6 4-Bromofluorobenzene	95	17.442	17.441	(1.103)	474718	4.08875	4.089
8 Dichlorodifluoromethane	85	3.779	3.778	(0.425)	100076	0.51848	0.5185
15 1,3-Butadiene	54	4.220	4.219	(0.474)	6075	0.18542	~~0.1854~~
20 Trichlorofluoromethane	101	5.263	5.262	(0.591)	49068	0.25538	0.2554
49 Benzene	78	10.541	10.534	(0.951)	27360	0.17755	0.1776
50 Carbon Tetrachloride	117	10.557	10.556	(1.186)	12955	0.08924	0.08924
51 2,2,4-trimethylpentane	57	11.084	11.277	(1.000)	56580	0.22259	~~0.2226~~
54 Trichloroethene	130	11.794	11.793	(1.064)	35035	0.38843	0.3884
62 Toluene	91	13.844	13.837	(0.876)	152754	1.01975	1.020
63 1,1,2-Trichloroethane	97	13.741	13.923	(0.869)	67223	1.24198	~~1.242~~
70 Ethylbenzene	91	16.141	16.140	(1.021)	16573	0.09343	0.09343

VMM 4-19-07

Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d
Report Date: 19-Apr-2007 18:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
71 m&p-Xylene	91	16.297	16.301	(1.031)	40594	0.29578	0.2958
75 o-Xylene	91	16.829	16.823	(1.065)	16484	0.11050	0.1105
83 4-Ethyltoluene	105	18.056	18.092	(1.142)	41662	0.21686	~~0.2169~~
84 1,3,5-Trimethylbenzene	120	18.163	18.162	(1.149)	16924	0.23849	0.2385

KM
4-19-07

Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d
Report Date: 19-Apr-2007 18:59

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jtphc.d
Lab Smp Id: JTPHC1AD
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,magna.sub,,,500 ML

Calibration Date: 16-APR-2007
Calibration Time: 12:57
Client Smp ID: SV-10(A.A)
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	185541	110397	260685	160937	-13.26
2 1,4-Difluorobenze	738195	439226	1037164	639566	-13.36
3 Chlorobenzene-d5	652787	388408	917166	575380	-11.86

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.90	8.57	9.23	8.90	0.01
2 1,4-Difluorobenze	11.08	10.75	11.41	11.09	0.06
3 Chlorobenzene-d5	15.81	15.48	16.14	15.81	0.01

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d
Report Date: 19-Apr-2007 18:59

STL Knoxville

RECOVERY REPORT

Client Name: AKRF-White Plains
Sample Matrix: GAS
Lab Smp Id: JTPHC1AD
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: magna.sub
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,magna.sub,,,500 ML

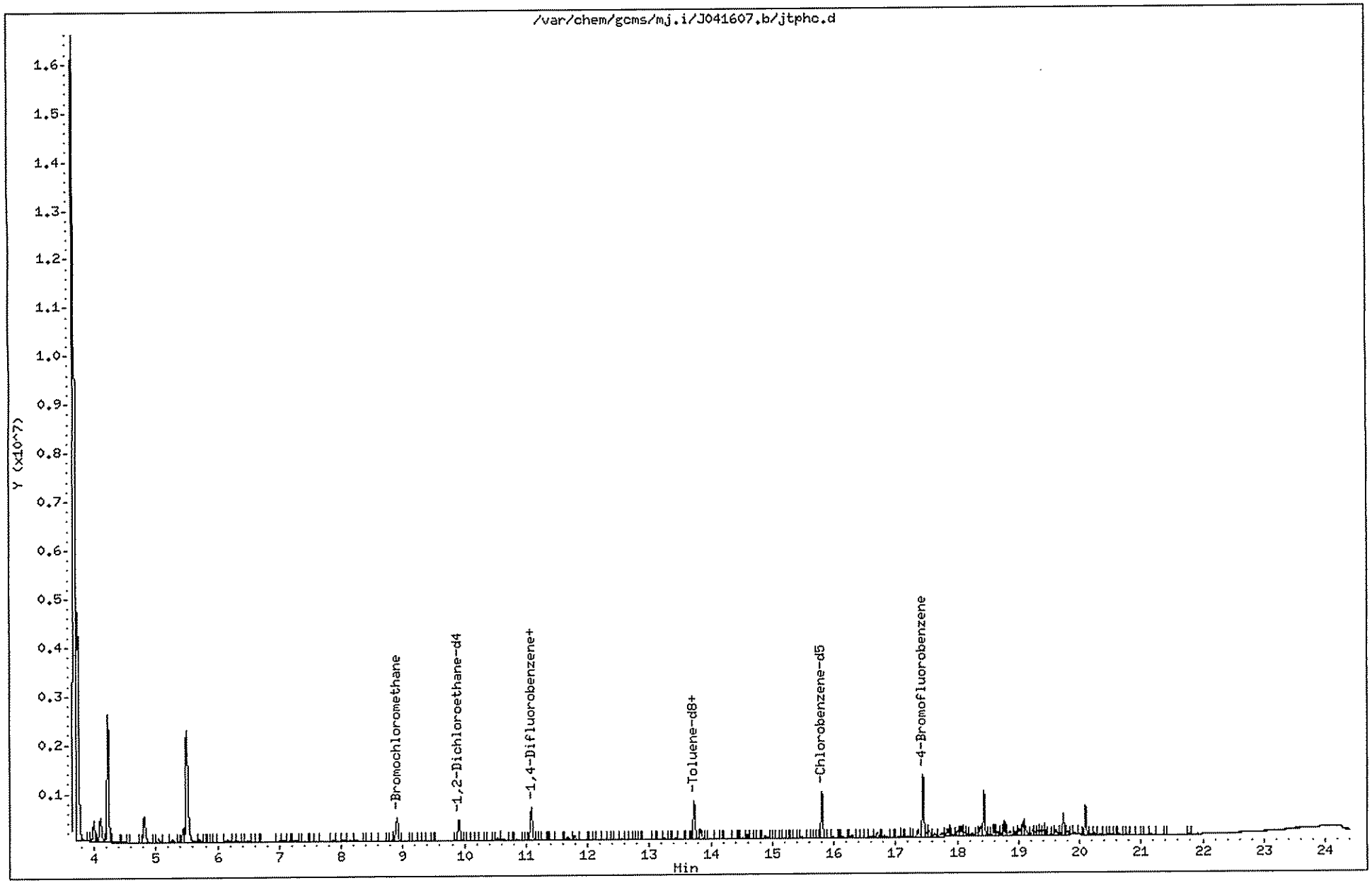
Client SDG: H7D110232
Fraction: OTHER
Client Smp ID: SV-10(A.A)
Operator: 7126
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	4.000	4.262	106.54	70-130
$ 5 Toluene-d8	4.000	4.106	102.66	70-130
$ 6 4-Bromofluorobenze	4.000	4.089	102.22	70-130

Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d
Date : 17-APR-2007 00:49
Client ID: SV-10(A,A)
Sample Info: JTPHC1AD,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d

Date : 17-APR-2007 00:49

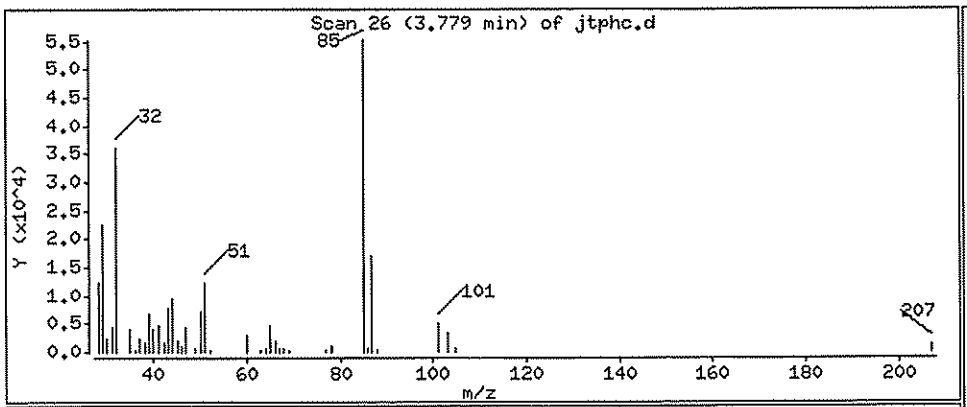
Client ID: SV-10(A,A) Instrument: mj.i

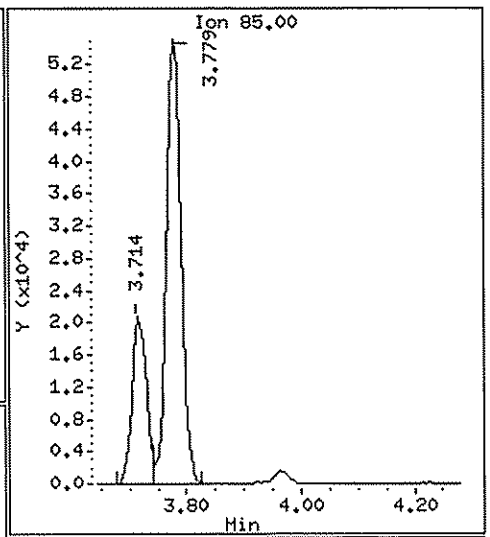
Sample Info: JTPHC1AD,,0,,,

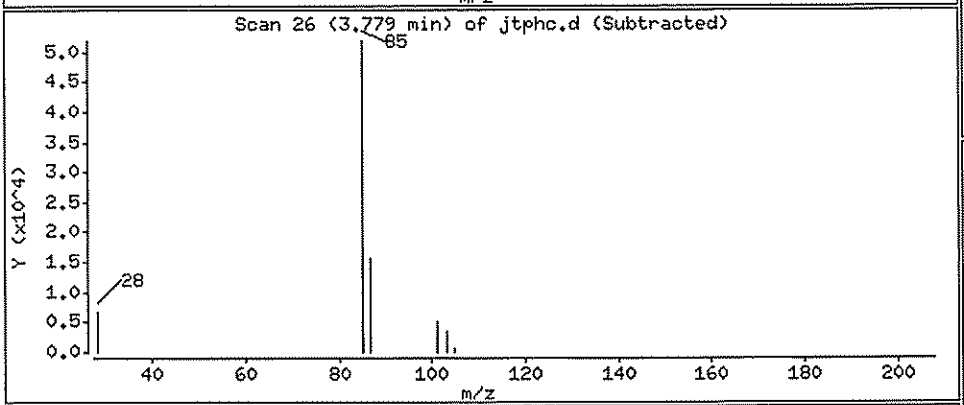
Purge Volume: 500.0 Operator: 7126

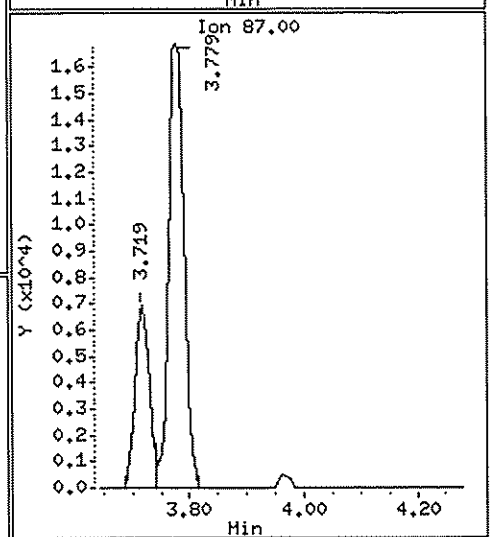
Column phase: Rtx-5 Column diameter: 0.32

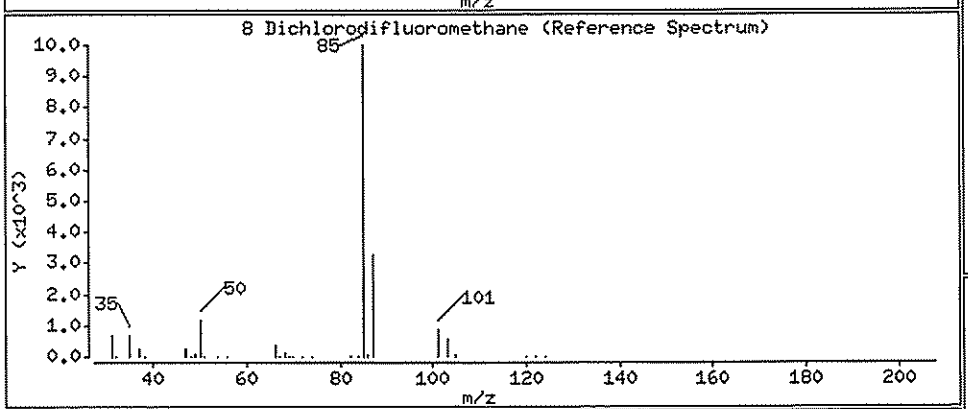
8 Dichlorodifluoromethane Concentration: 0.5185 ppb(v/v)

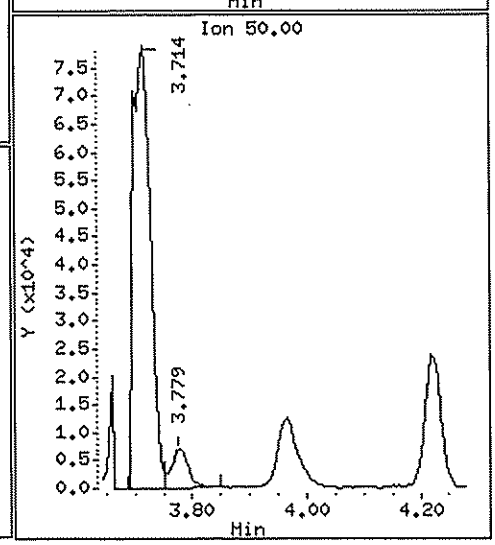


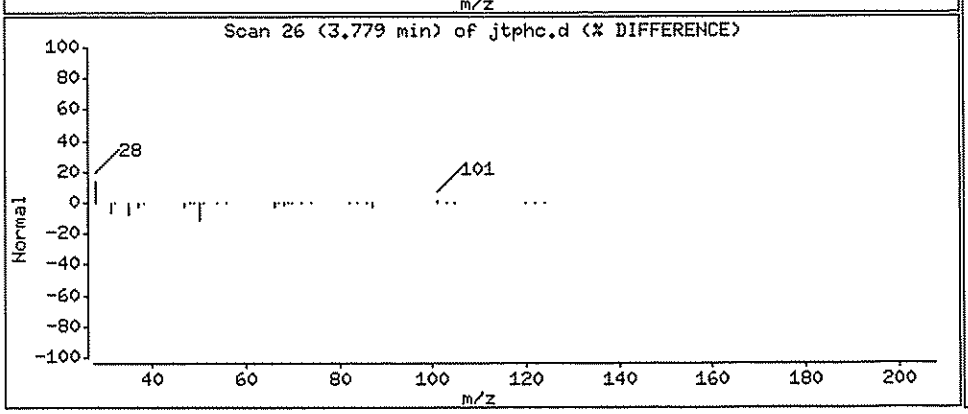












Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d

Date : 17-APR-2007 00:49

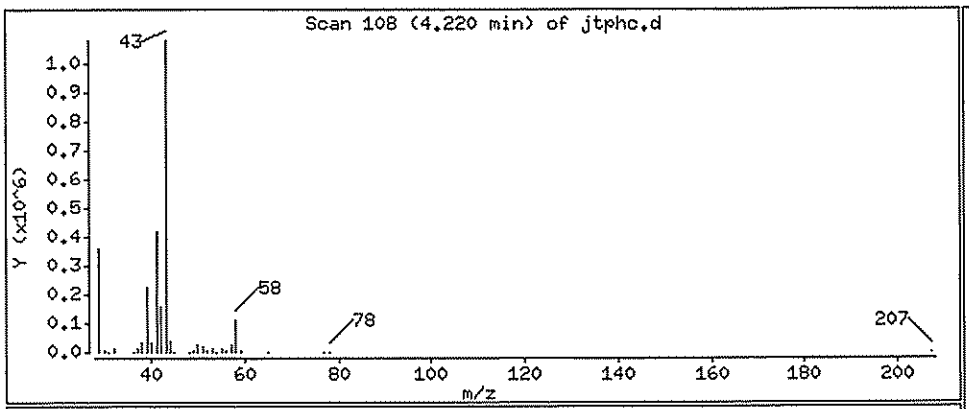
Client ID: SV-10(A,A) Instrument: mj.i

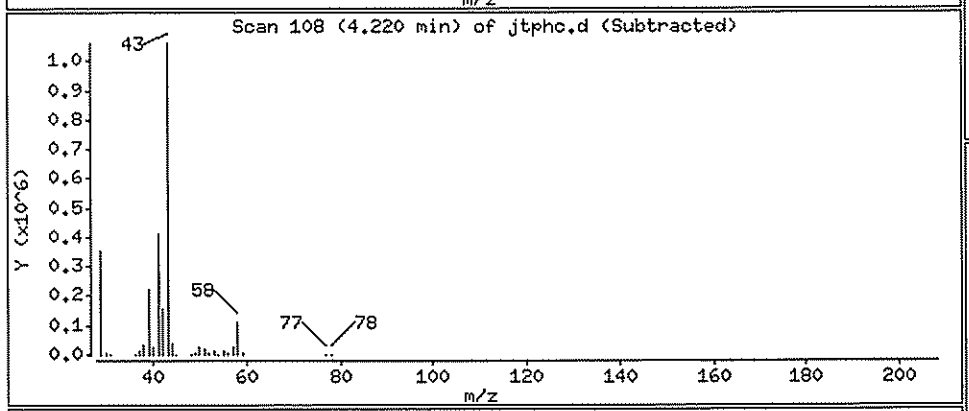
Sample Info: JTPHC1AD,,0,,,

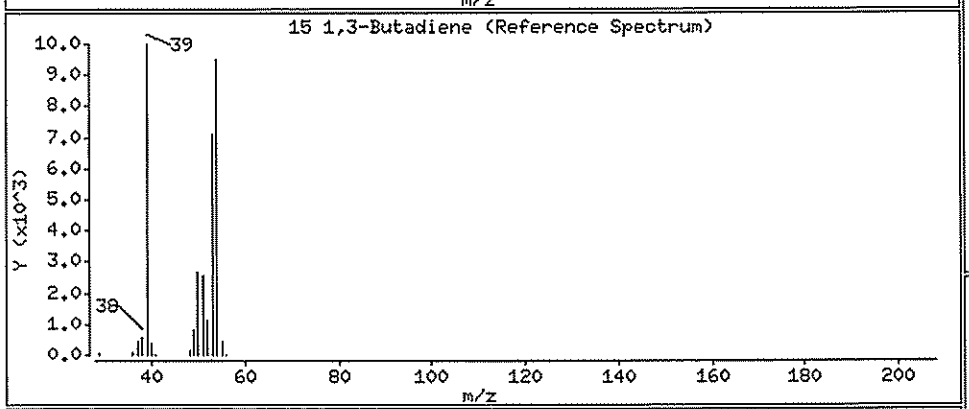
Purge Volume: 500.0 Operator: 7126

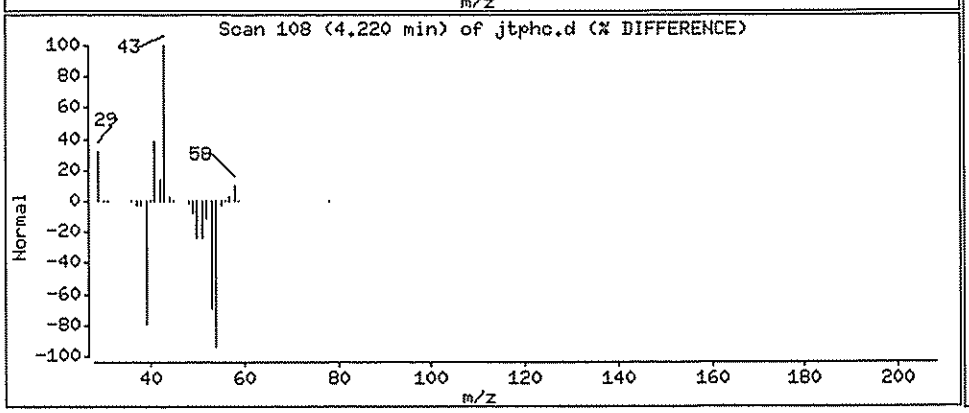
Column phase: Rtx-5 Column diameter: 0.32

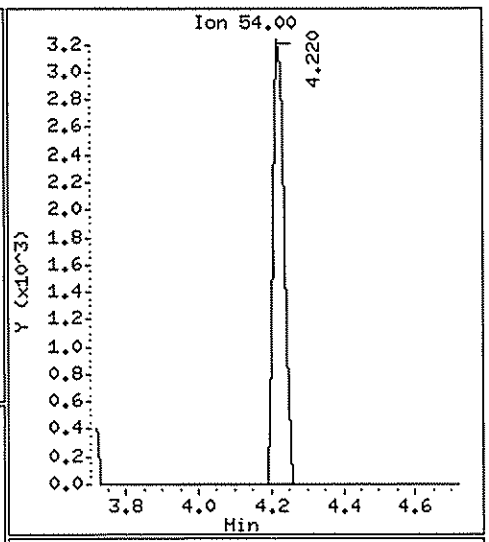
15 1,3-Butadiene Concentration: 0.1854 ppb(v/v)

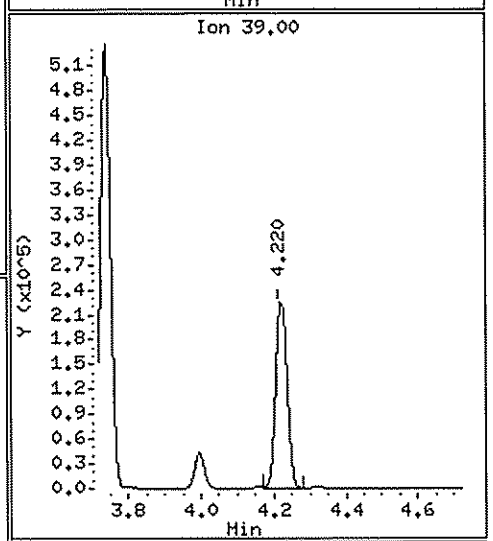


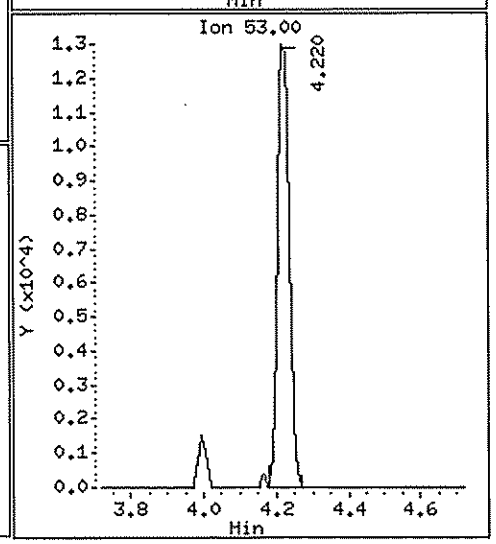












Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d

Date : 17-APR-2007 00:49

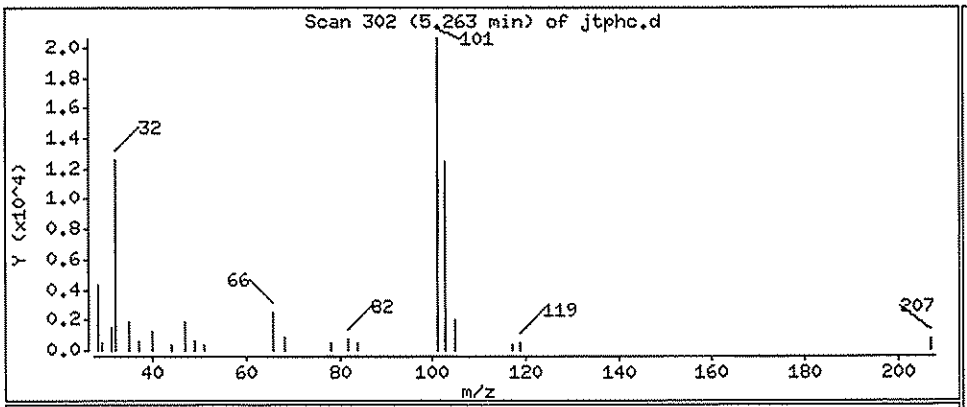
Client ID: SV-10(A.A) Instrument: mj.i

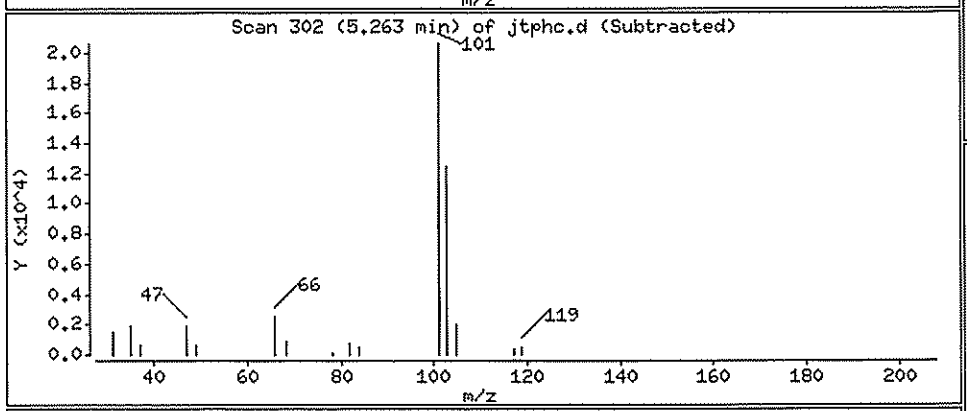
Sample Info: JTPHC1AD,,0,,,

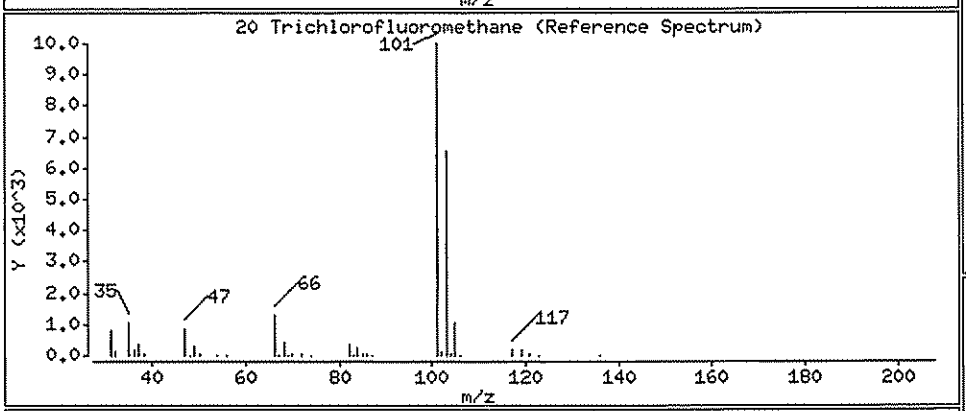
Purge Volume: 500.0 Operator: 7126

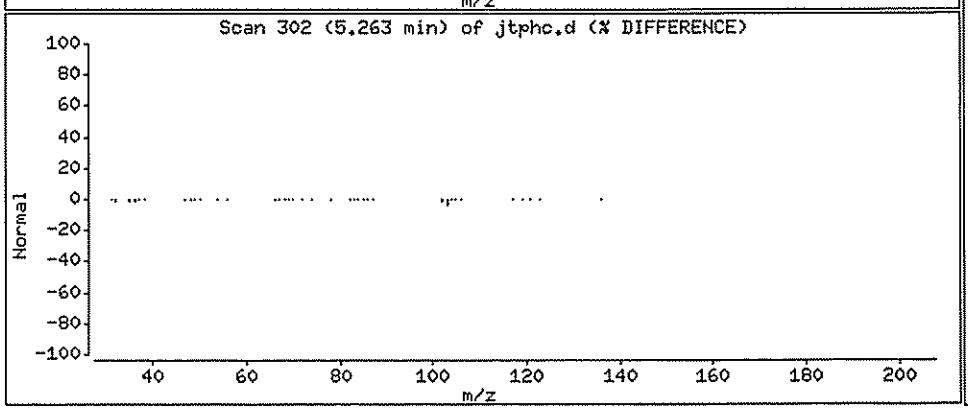
Column phase: Rtx-5 Column diameter: 0.32

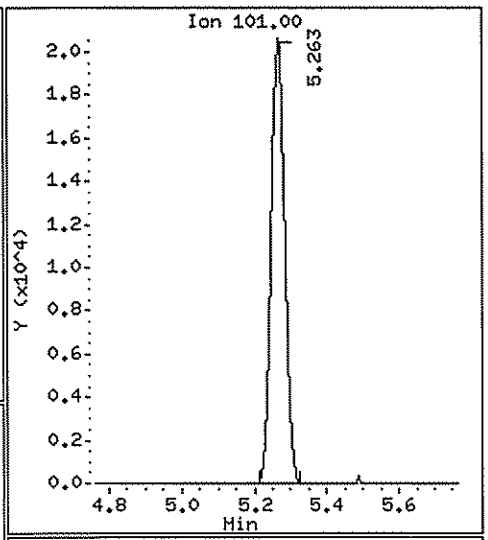
20 Trichlorofluoromethane Concentration: 0.2554 ppb(v/v)

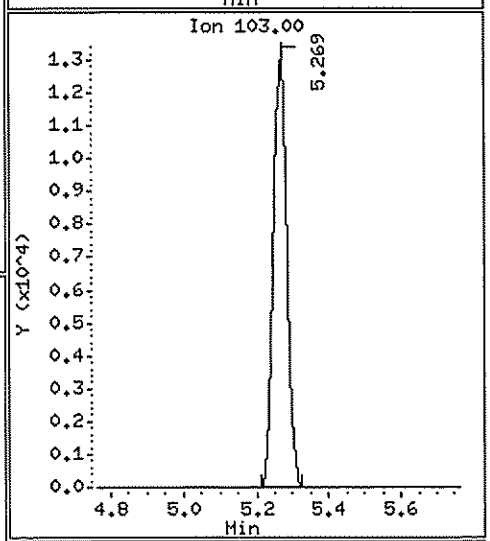


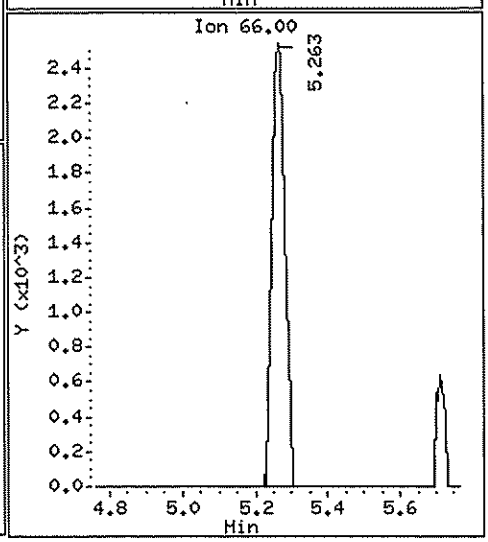












Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d

Date : 17-APR-2007 00:49

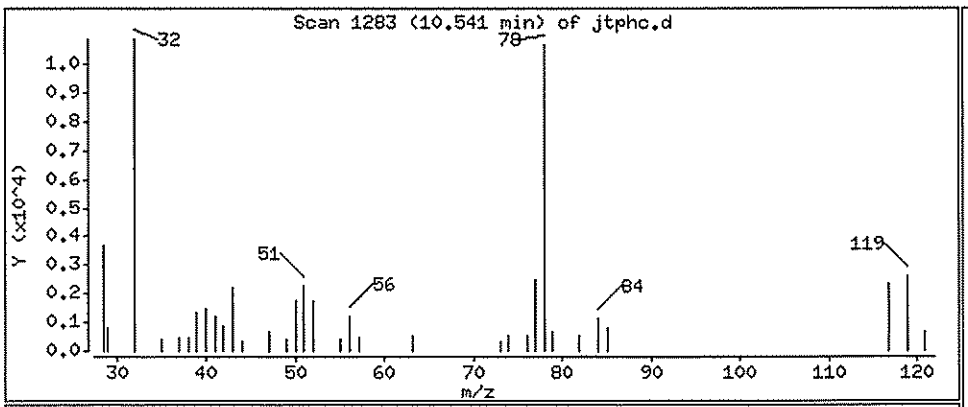
Client ID: SV-10(A.A) Instrument: mj.i

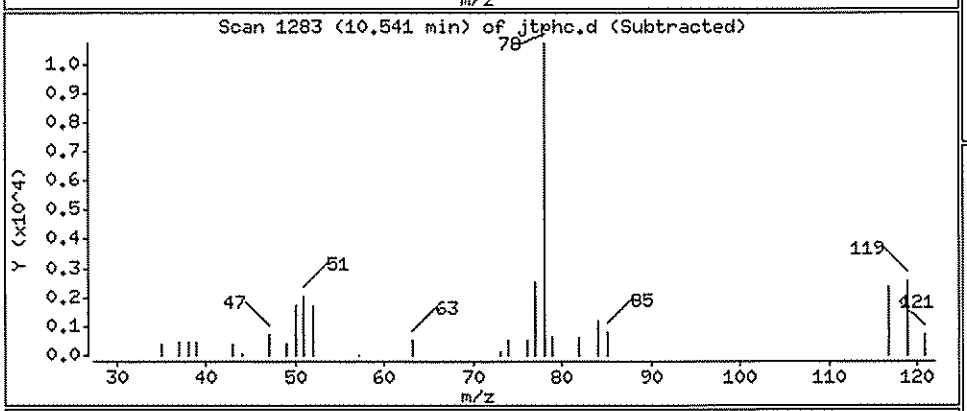
Sample Info: JTPHC1AD,,0,,,

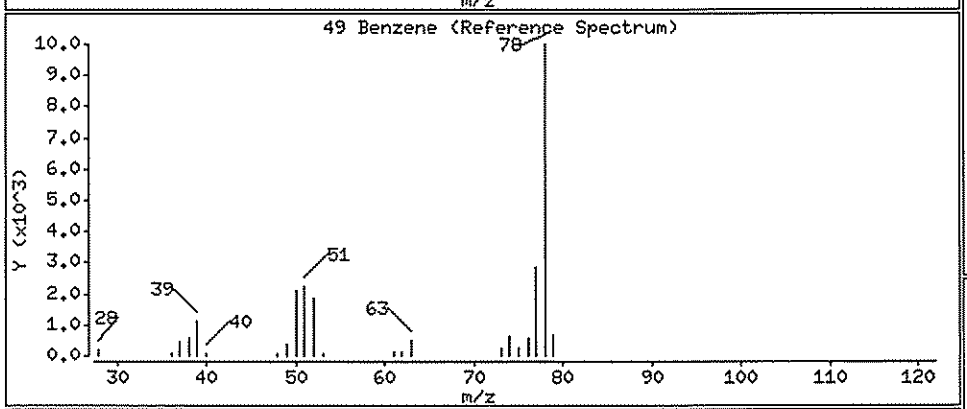
Purge Volume: 500.0 Operator: 7126

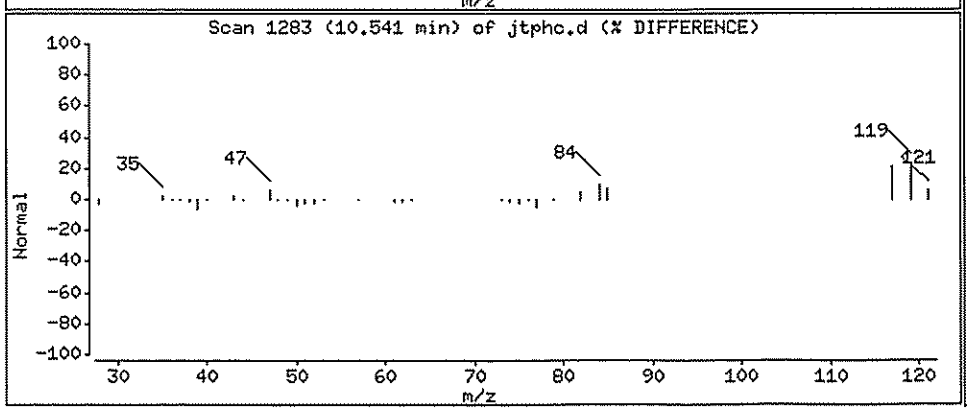
Column phase: Rtx-5 Column diameter: 0.32

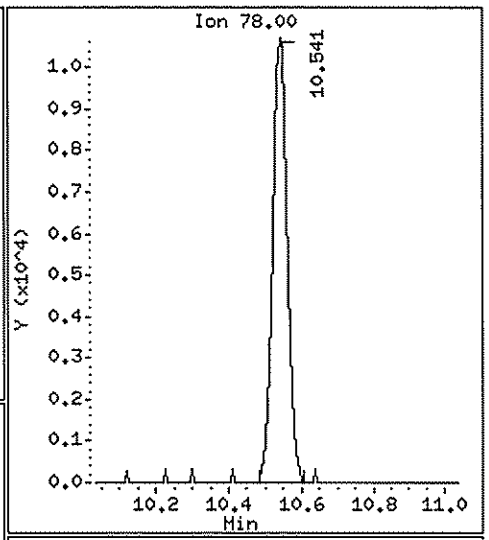
49 Benzene Concentration: 0.1776 ppb(v/v)

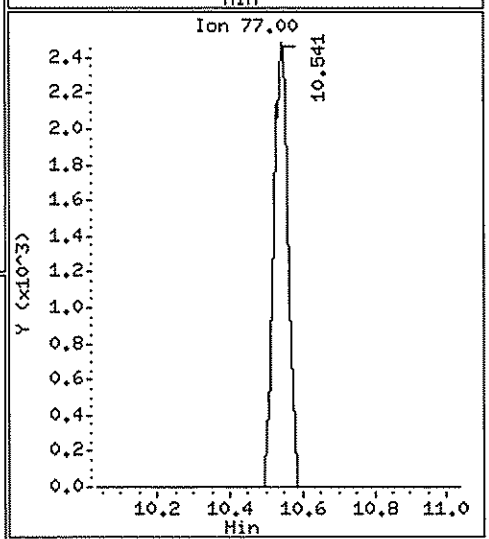


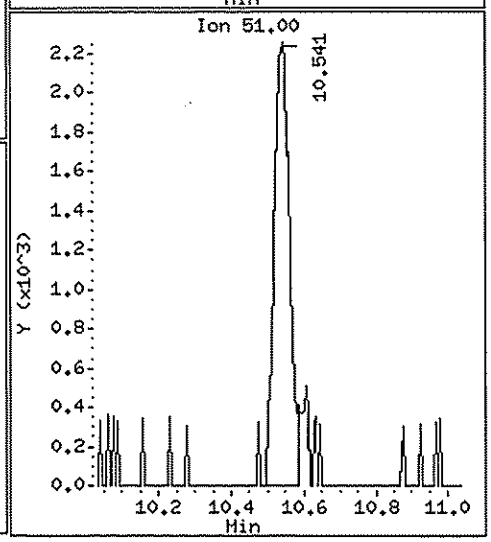












Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d

Date : 17-APR-2007 00:49

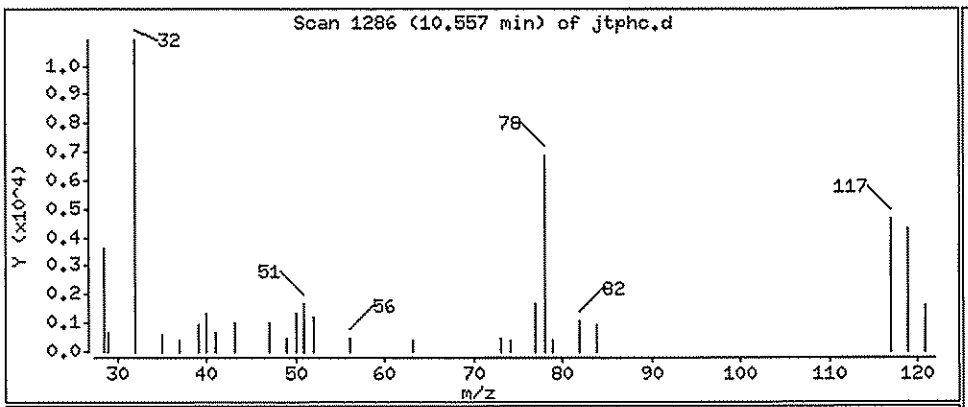
Client ID: SV-10(A.A) Instrument: mj.i

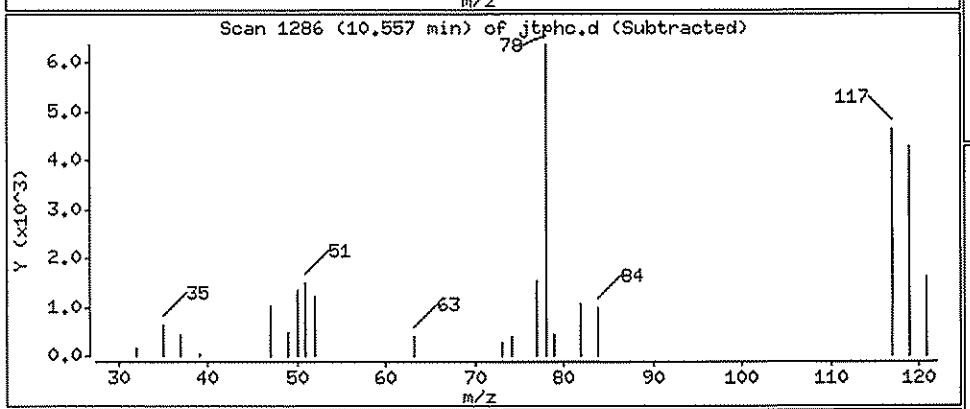
Sample Info: JTPHC1AD,,0,,,

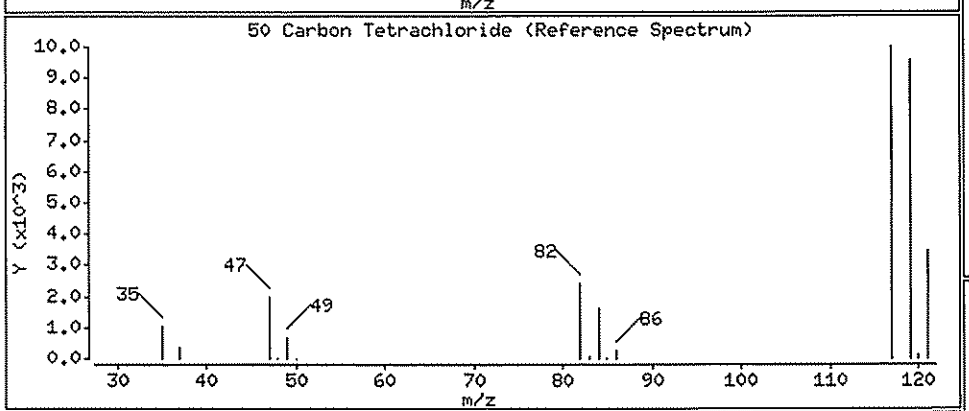
Purge Volume: 500.0 Operator: 7126

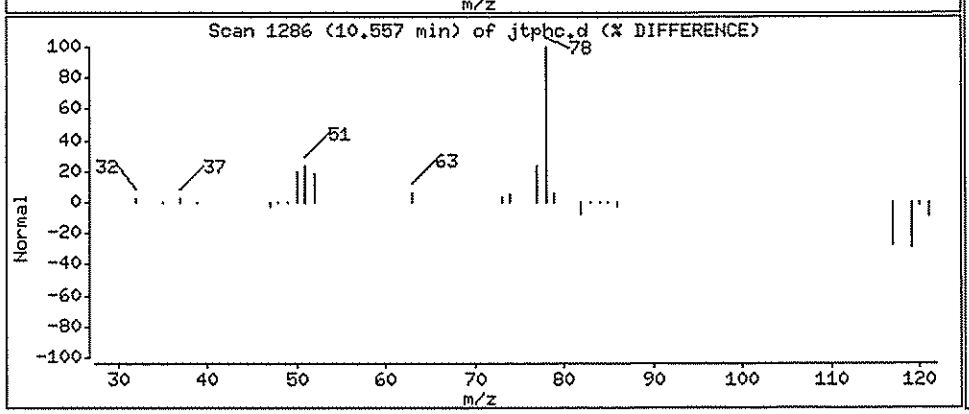
Column phase: Rtx-5 Column diameter: 0.32

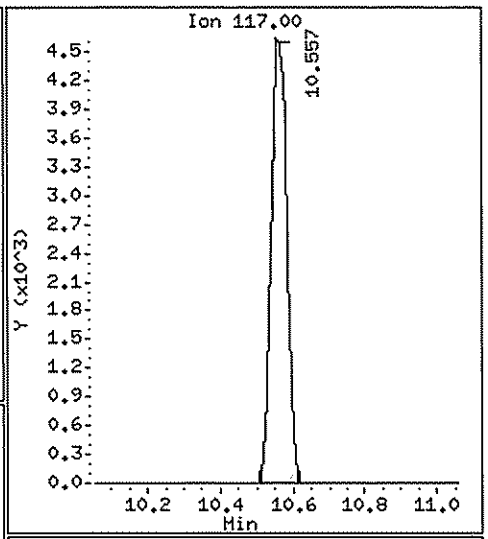
50 Carbon Tetrachloride Concentration: 0.08924 ppb(v/v)

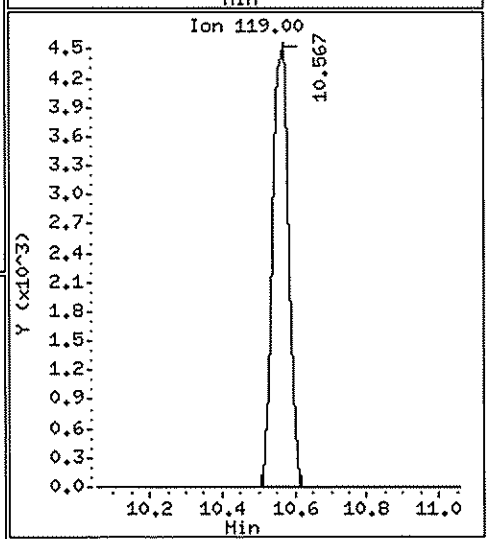


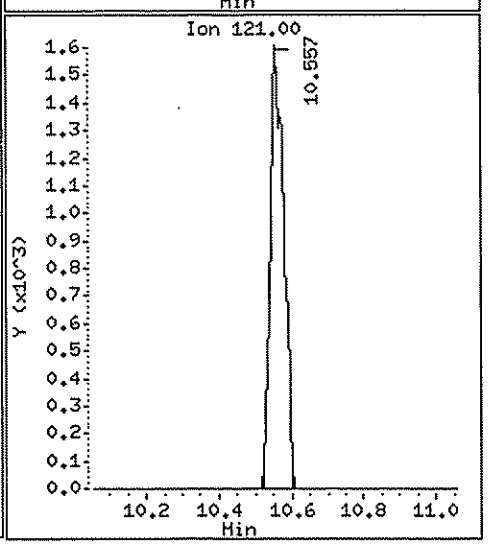












Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d

Date : 17-APR-2007 00:49

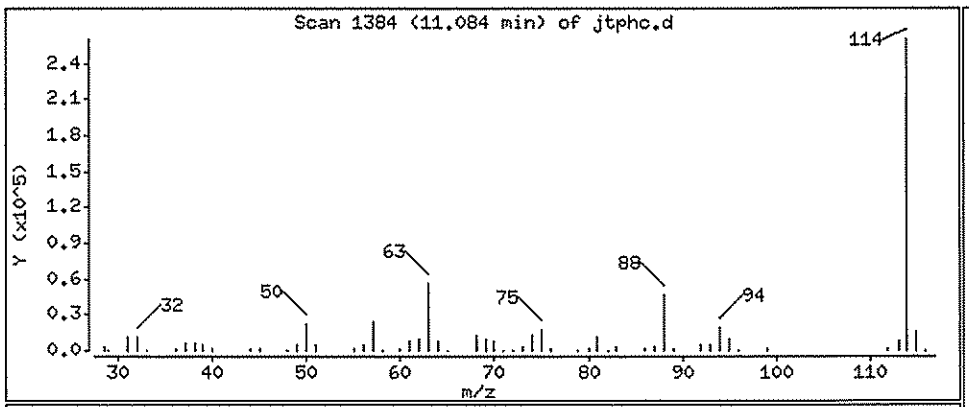
Client ID: SV-10(A.A) Instrument: mj.i

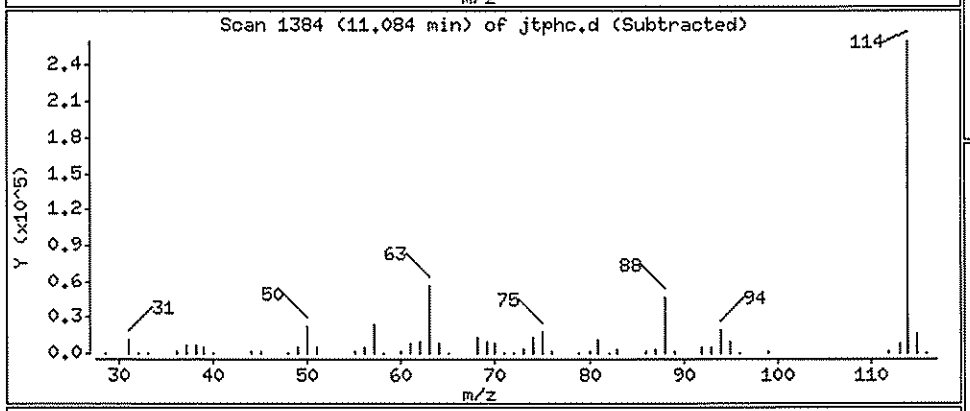
Sample Info: JTPHC1AD,,0,,,

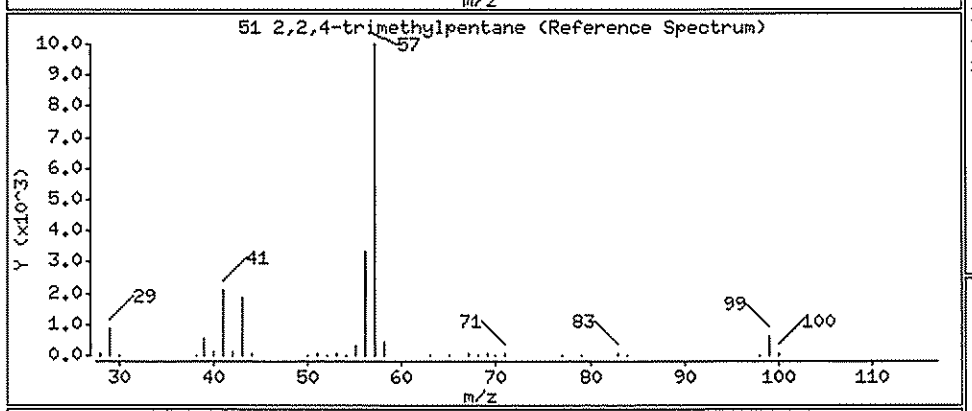
Purge Volume: 500.0 Operator: 7126

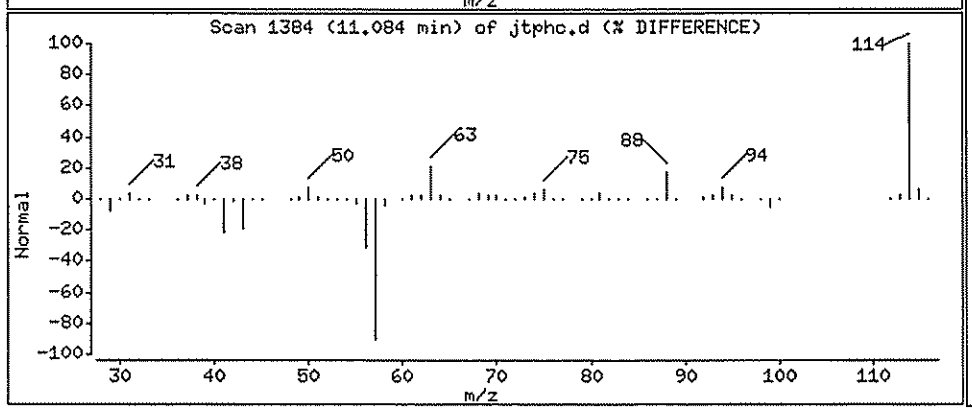
Column phase: Rtx-5 Column diameter: 0.32

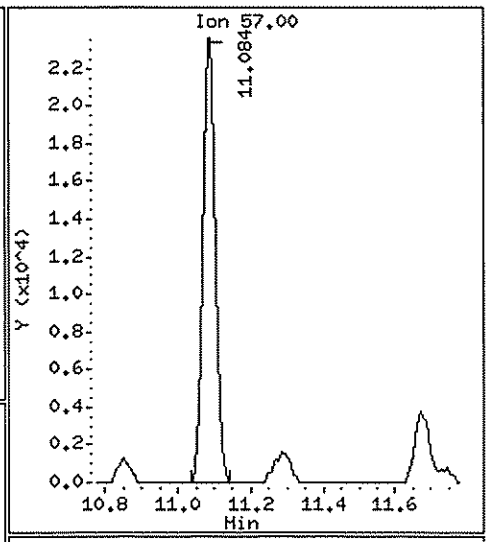
51 2,2,4-trimethylpentane Concentration: 0.2226 ppb(v/v)

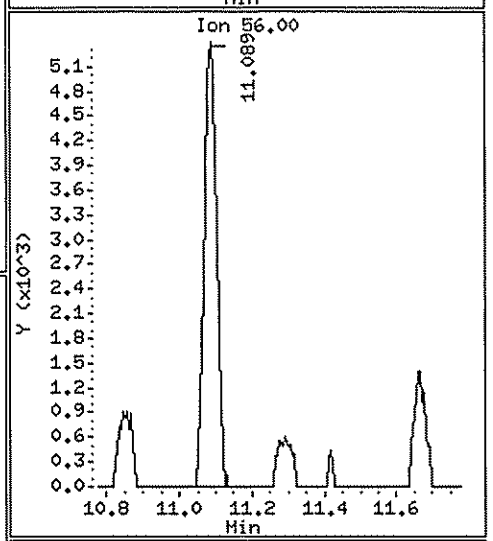


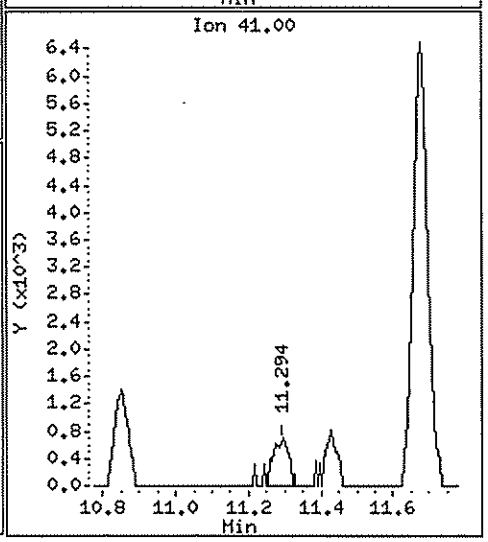












Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d

Date : 17-APR-2007 00:49

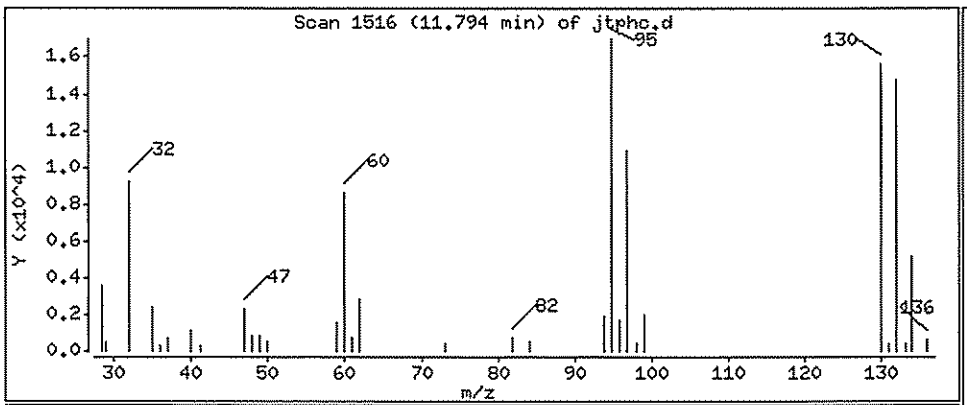
Client ID: SV-10(A.A) Instrument: mj.i

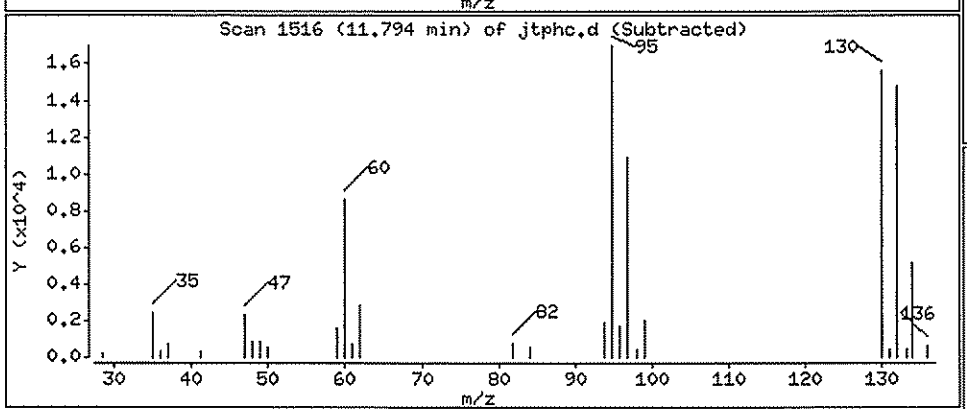
Sample Info: JTPHC1AD,,0,,,

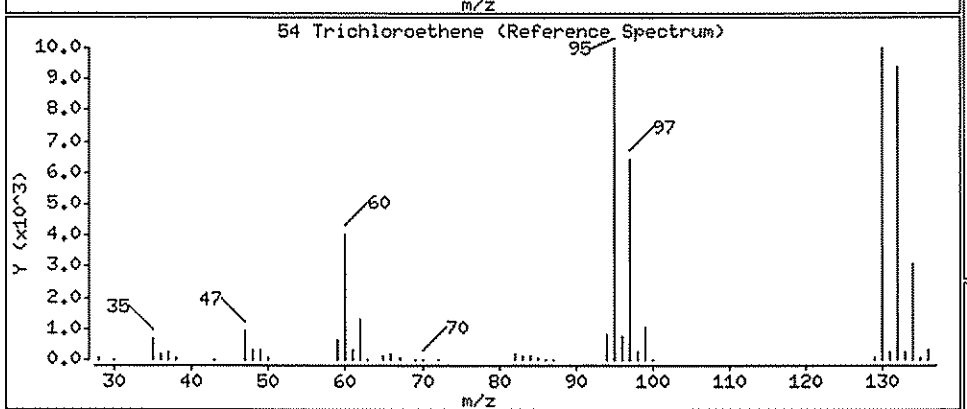
Purge Volume: 500.0 Operator: 7126

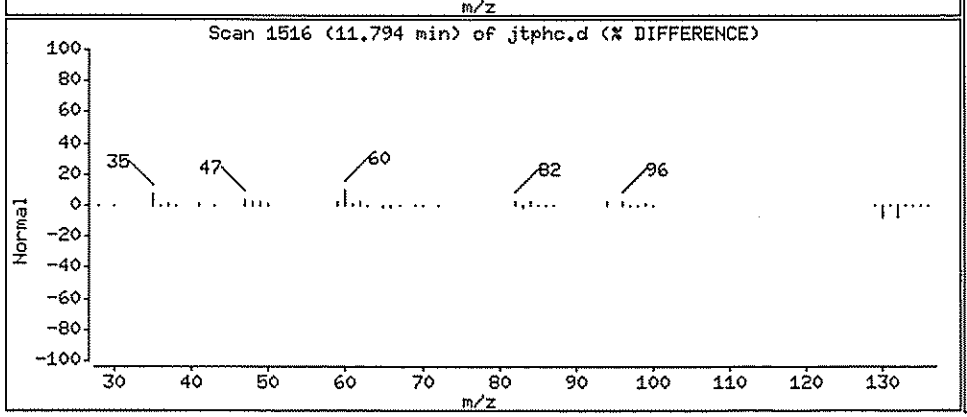
Column phase: Rtx-5 Column diameter: 0.32

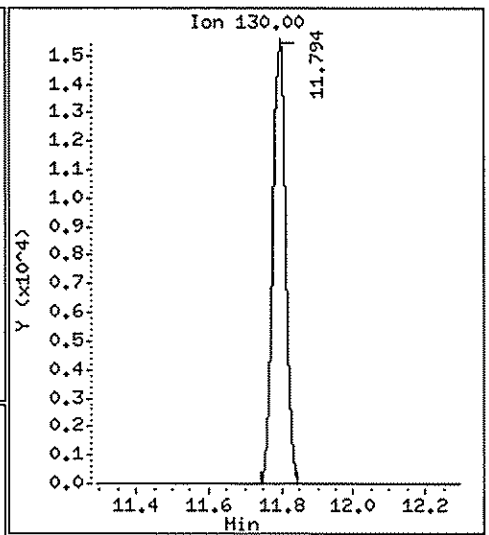
54 Trichloroethene Concentration: 0.3884 ppb(v/v)

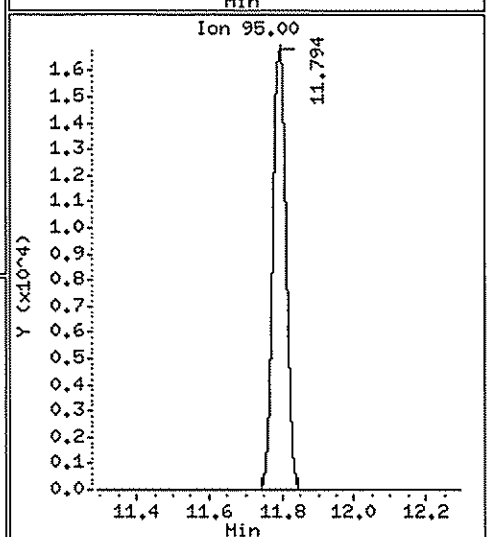


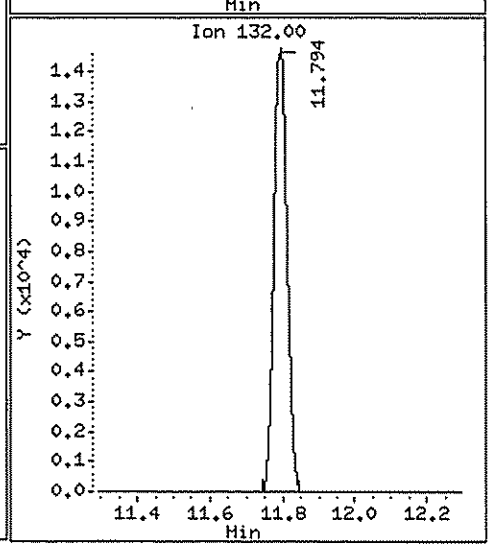












Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d

Date : 17-APR-2007 00:49

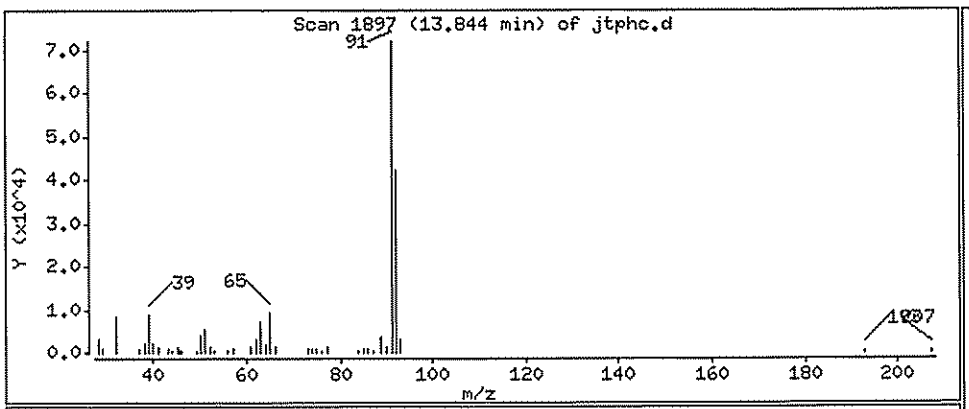
Client ID: SV-10(A,A) Instrument: mj.i

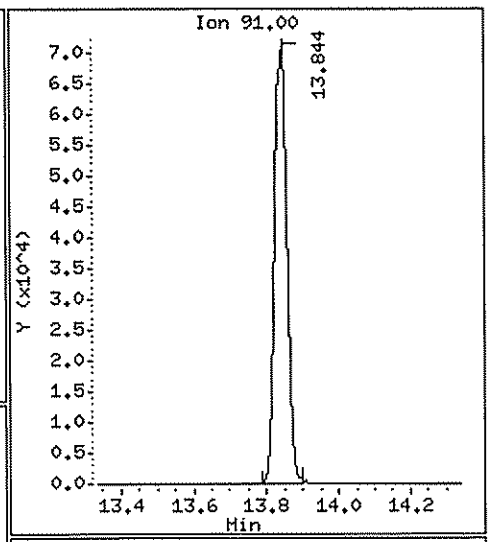
Sample Info: JTPHC1AD,,0,,,

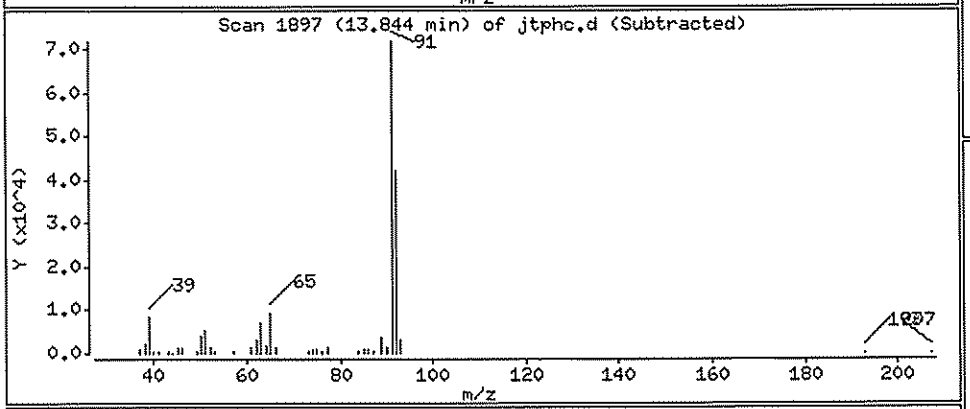
Purge Volume: 500.0 Operator: 7126

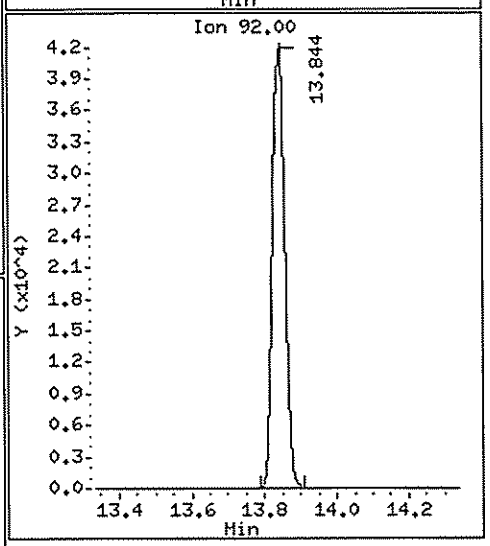
Column phase: Rtx-5 Column diameter: 0.32

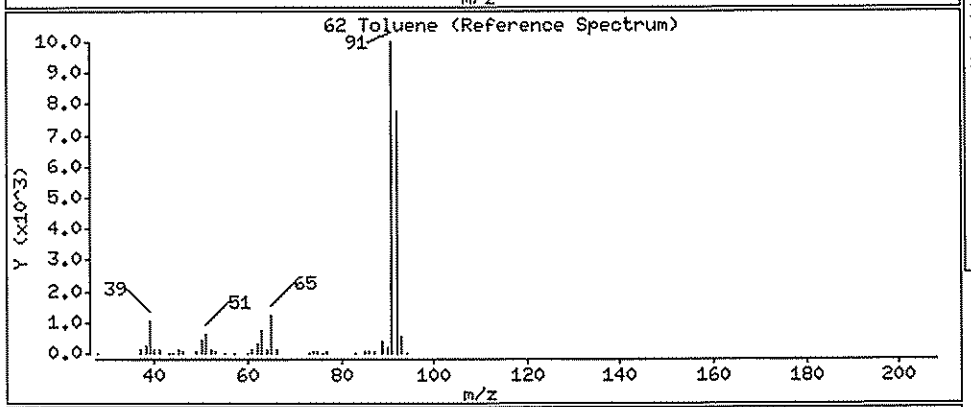
62 Toluene Concentration: 1.020 ppb(v/v)

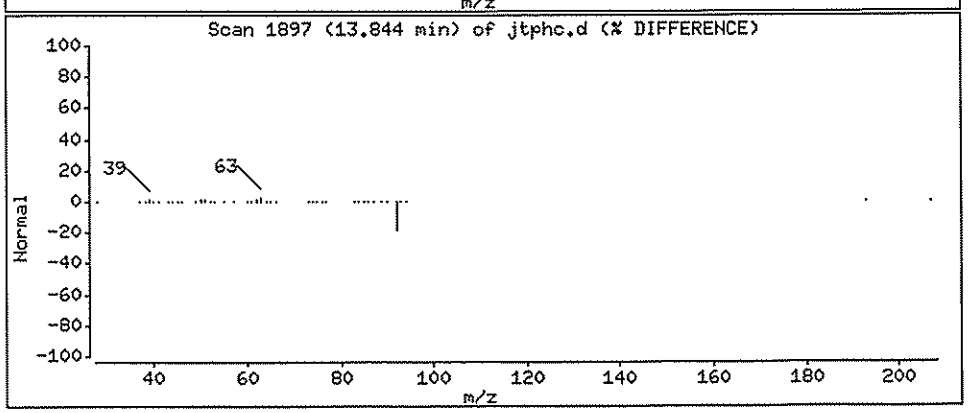












Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d

Date : 17-APR-2007 00:49

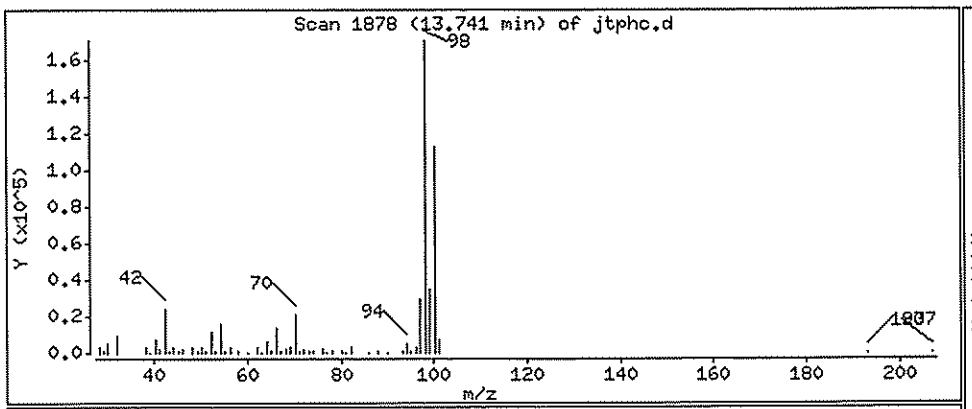
Client ID: SV-10(A.A) Instrument: mj.i

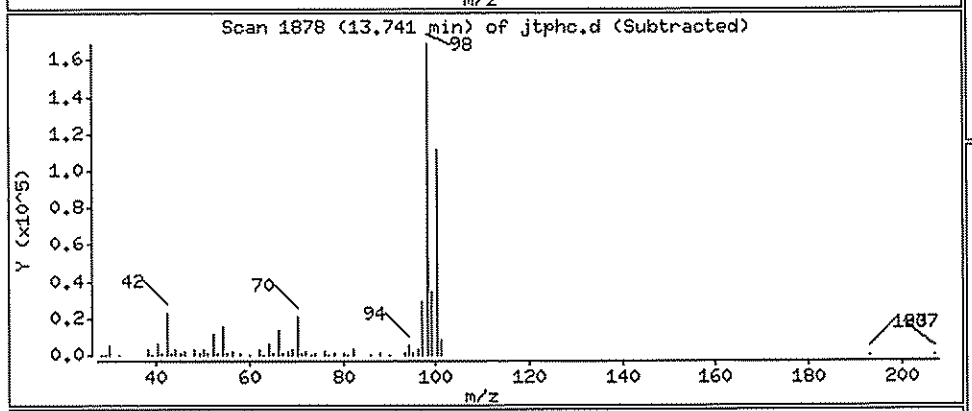
Sample Info: JTPHC1AD,,0,,,

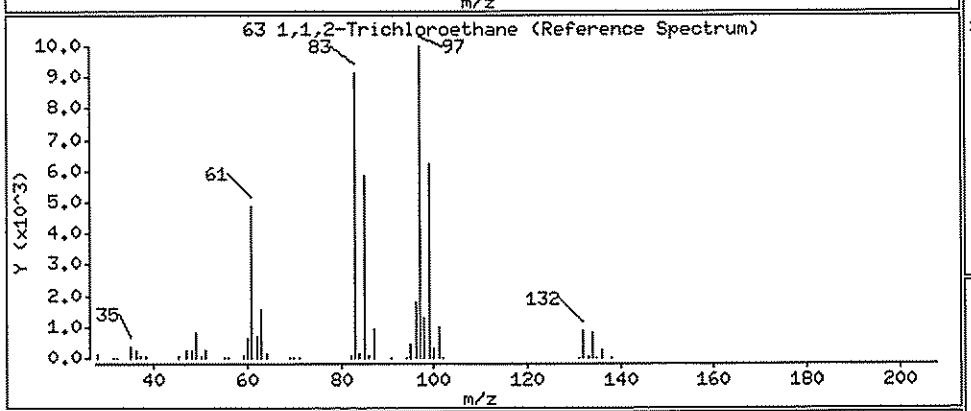
Purge Volume: 500.0 Operator: 7126

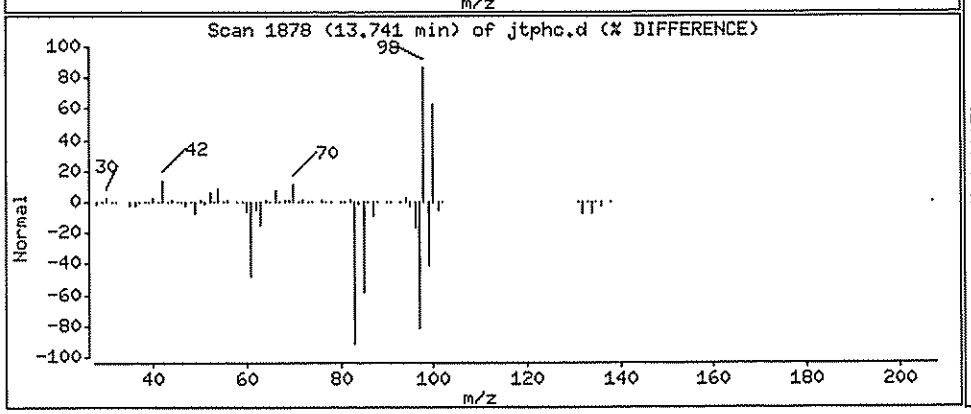
Column phase: Rtx-5 Column diameter: 0.32

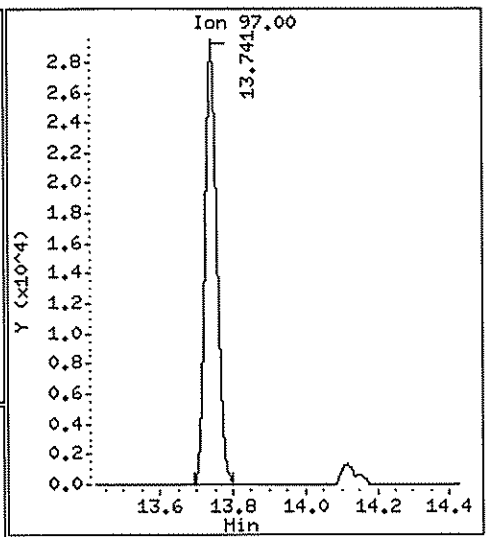
63 1,1,2-Trichloroethane Concentration: 1.242 ppb(v/v)

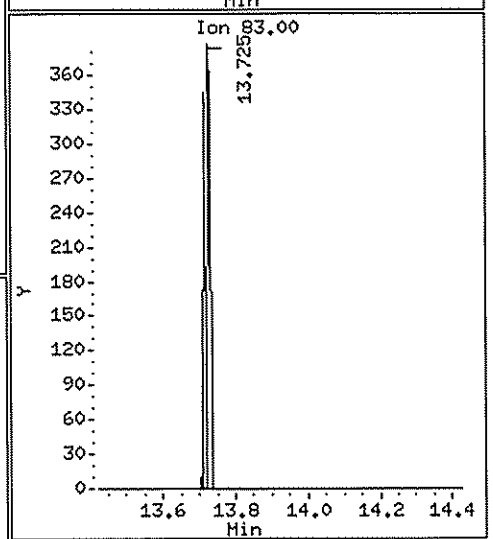


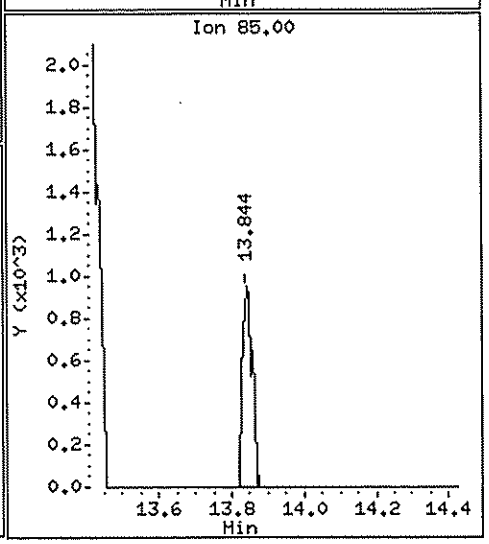












Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d

Date : 17-APR-2007 00:49

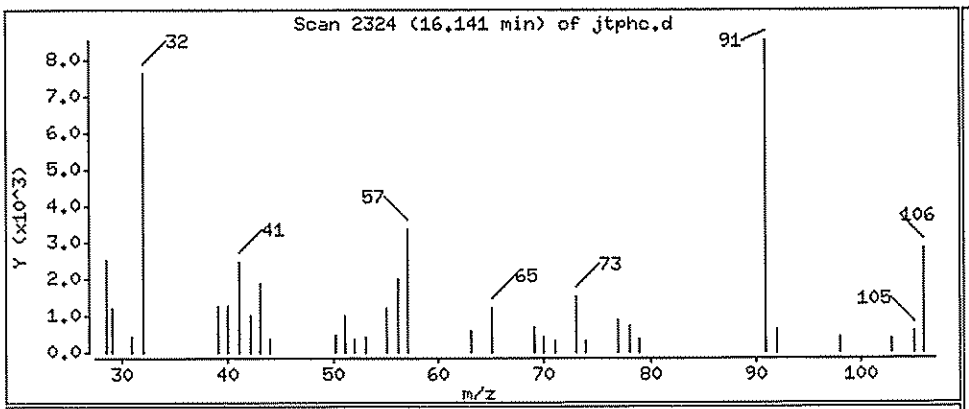
Client ID: SV-10(A.A) Instrument: mj.i

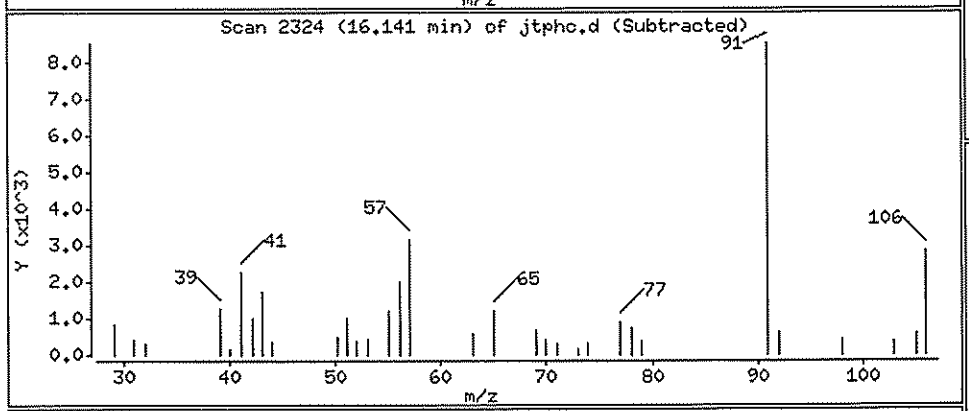
Sample Info: JTPHC1AD,,0,,,

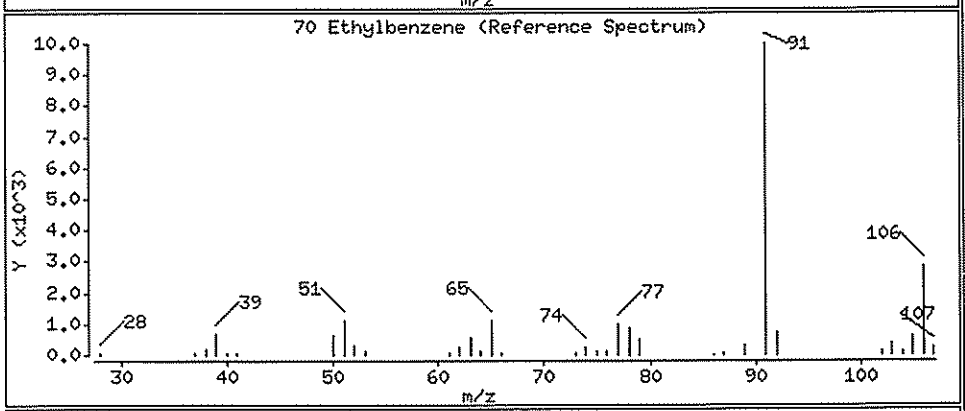
Purge Volume: 500.0 Operator: 7126

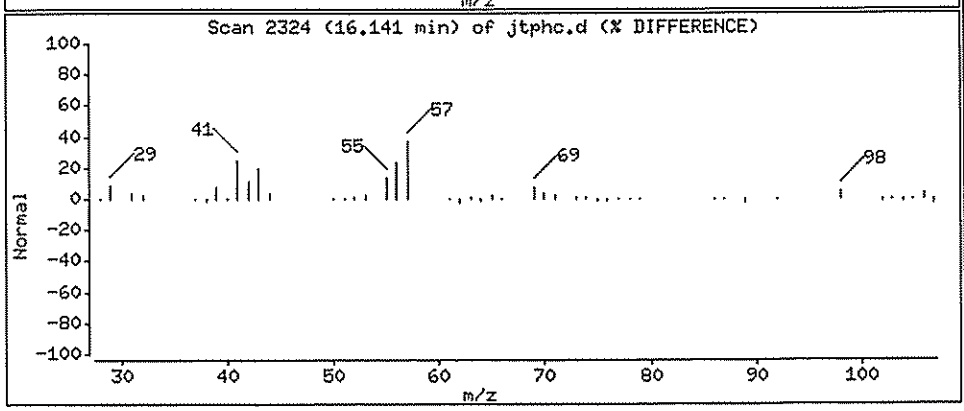
Column phase: Rtx-5 Column diameter: 0.32

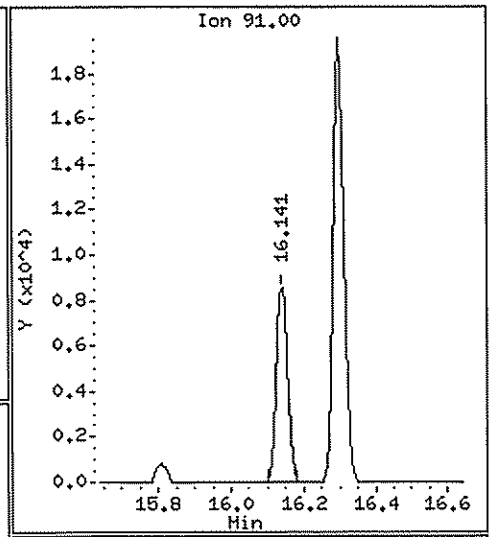
70 Ethylbenzene Concentration: 0.09343 ppb(v/v)

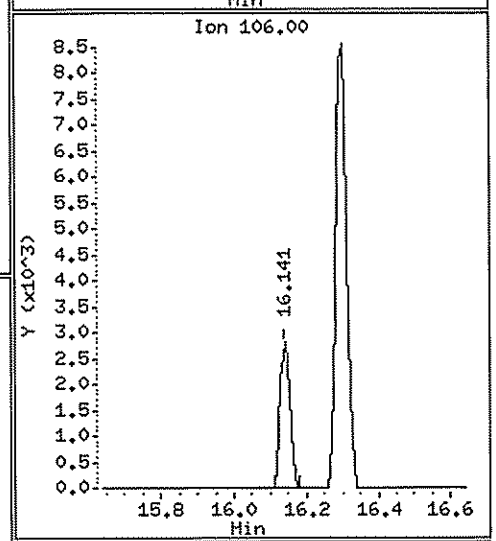


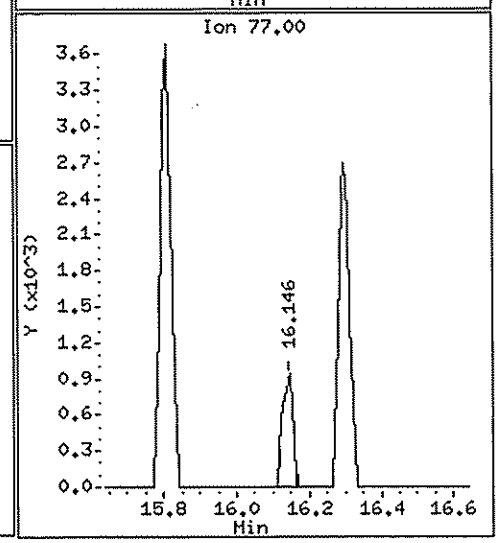












Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d

Date : 17-APR-2007 00:49

Client ID: SV-10(A,A)

Instrument: mj.i

Sample Info: JTPHC1AD,,0,,,

Purge Volume: 500.0

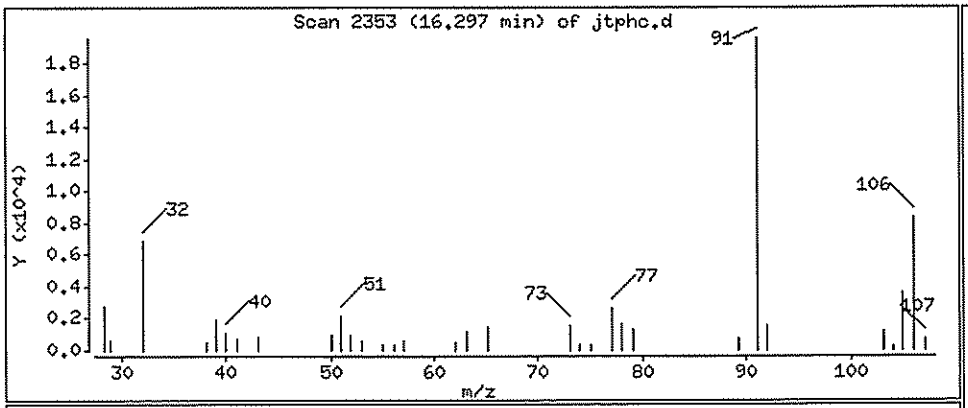
Operator: 7126

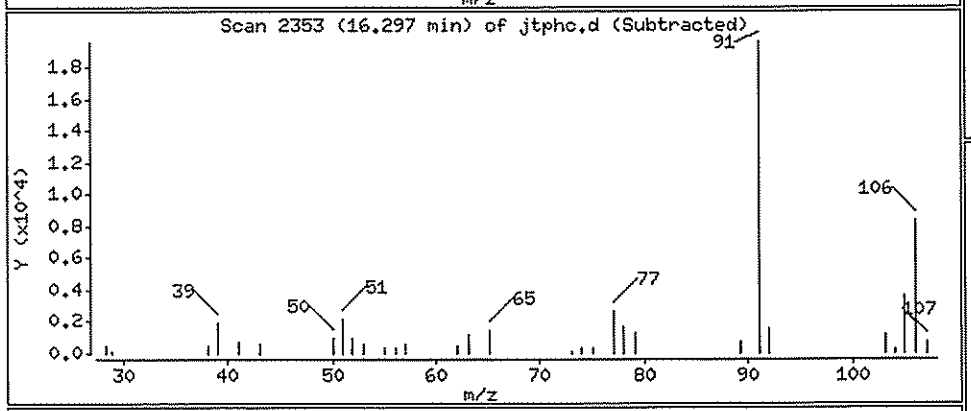
Column phase: Rtx-5

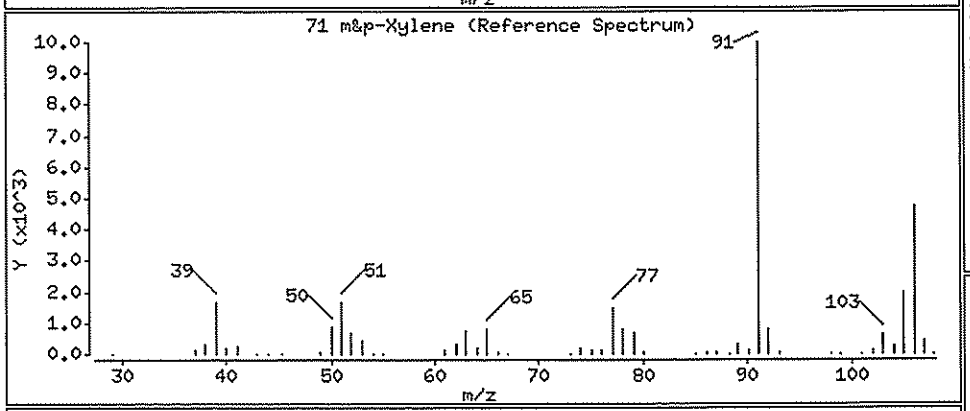
Column diameter: 0.32

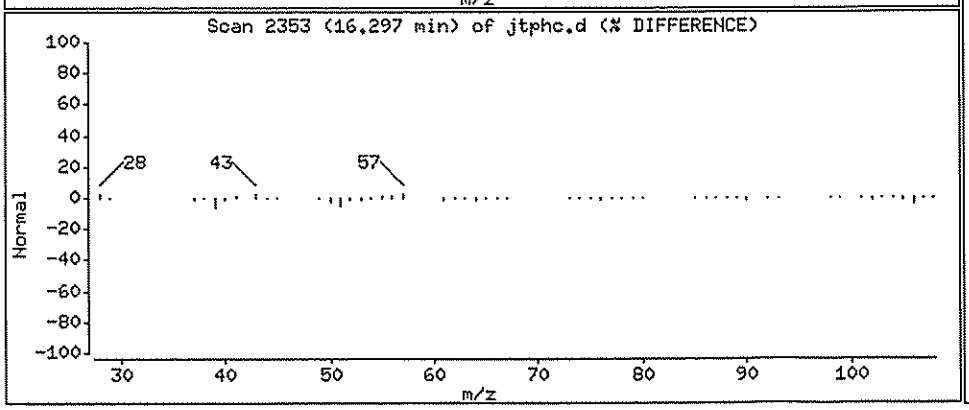
71 m&p-Xylene

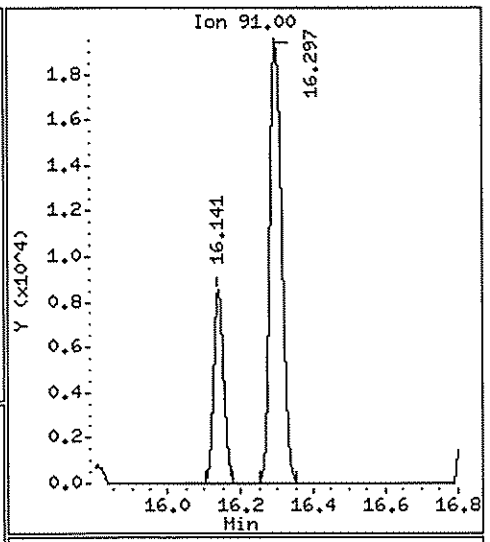
Concentration: 0.2958 ppb(v/v)

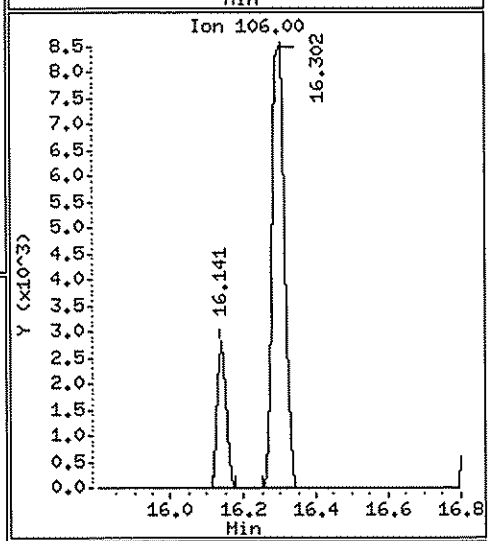


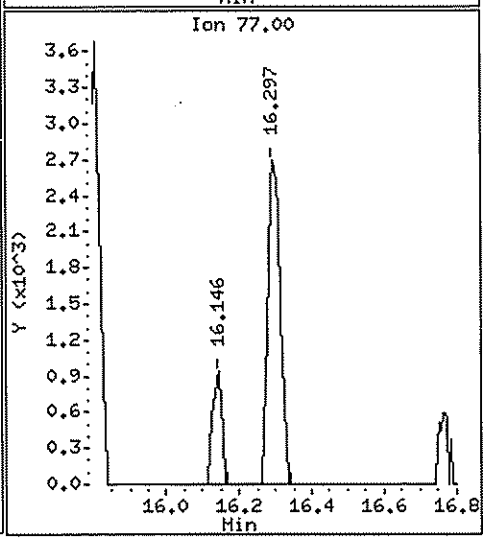












Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d

Date : 17-APR-2007 00:49

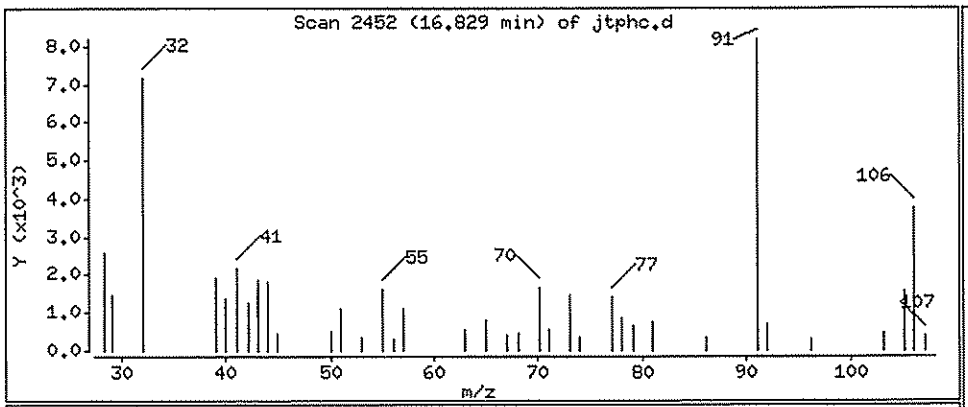
Client ID: SV-10(A,A) Instrument: mj.i

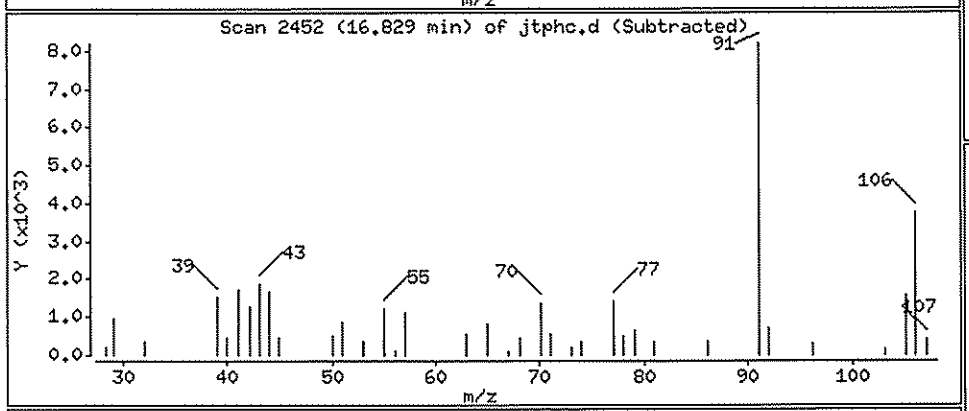
Sample Info: JTPHC1AD,,0,,,

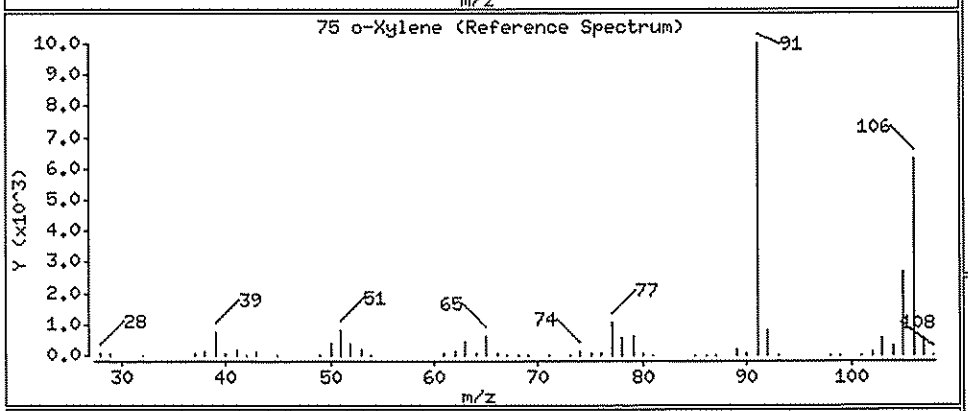
Purge Volume: 500.0 Operator: 7126

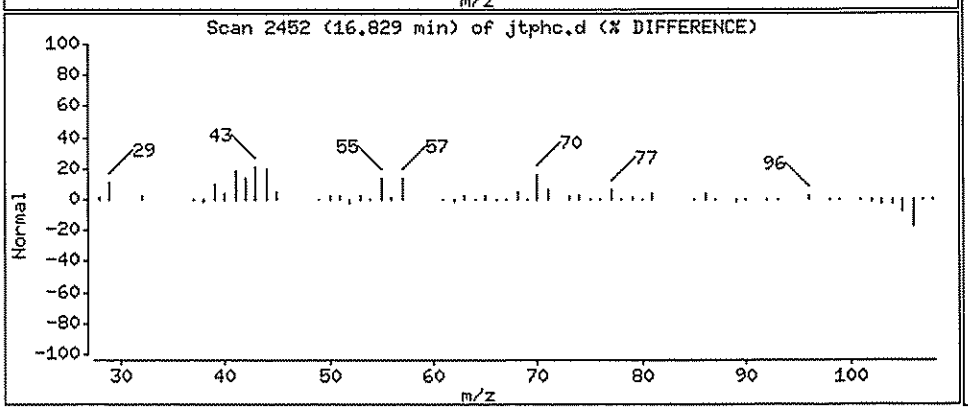
Column phase: Rtx-5 Column diameter: 0.32

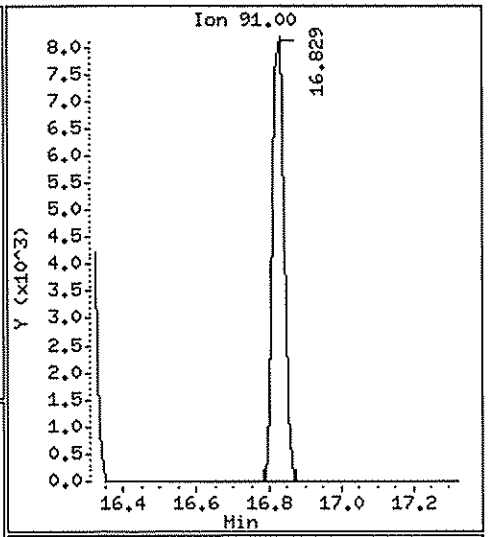
75 o-Xylene Concentration: 0.1105 ppb(v/v)

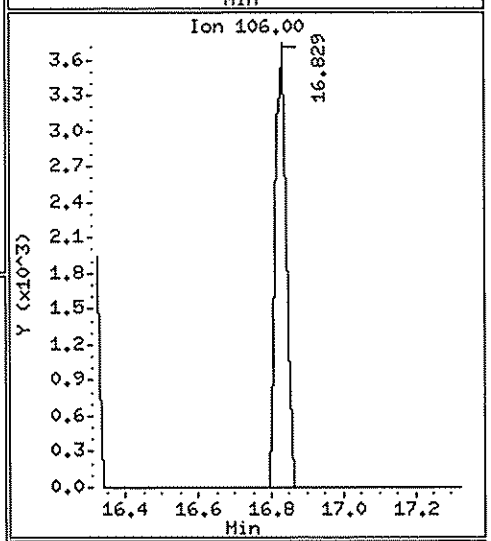


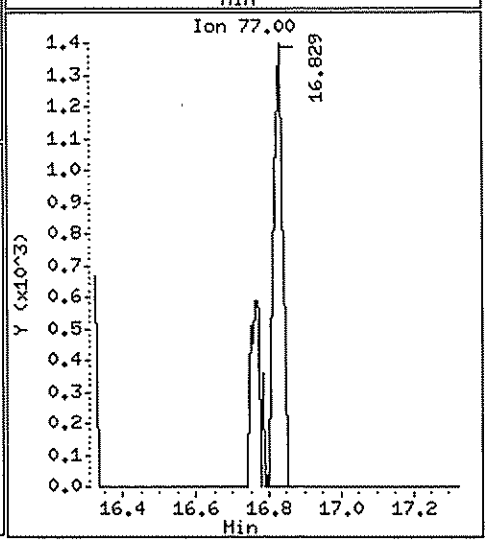












Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d

Date : 17-APR-2007 00:49

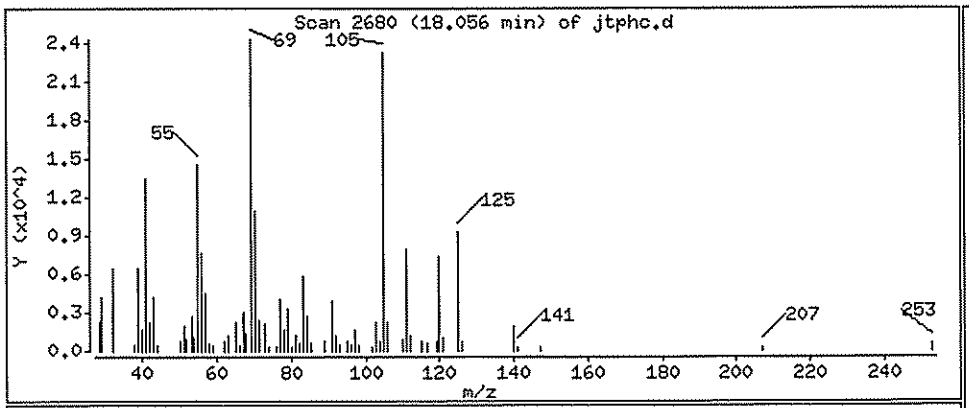
Client ID: SV-10(A.A) Instrument: mj.i

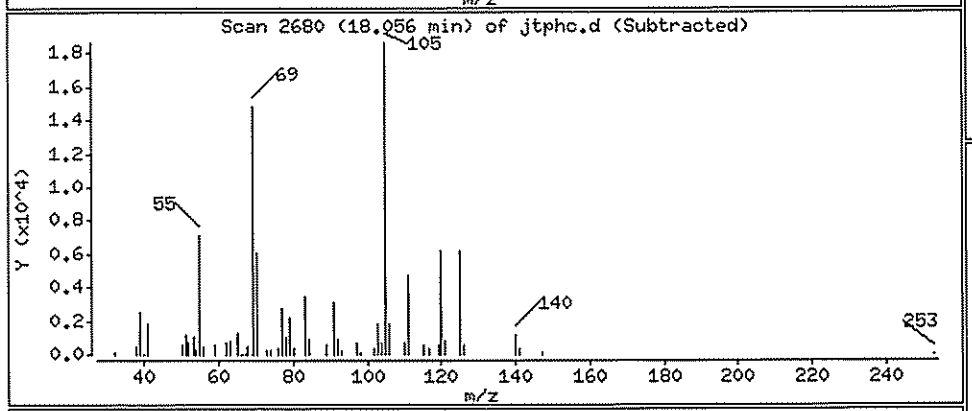
Sample Info: JTPHC1AD,,0,,,

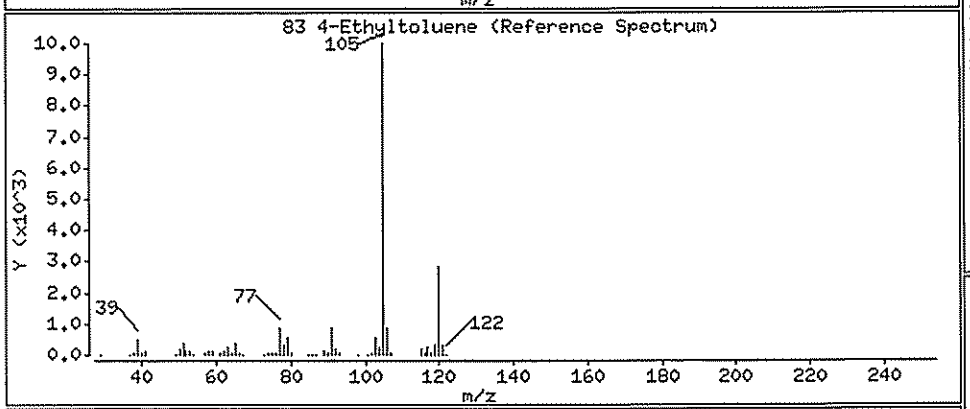
Purge Volume: 500.0 Operator: 7126

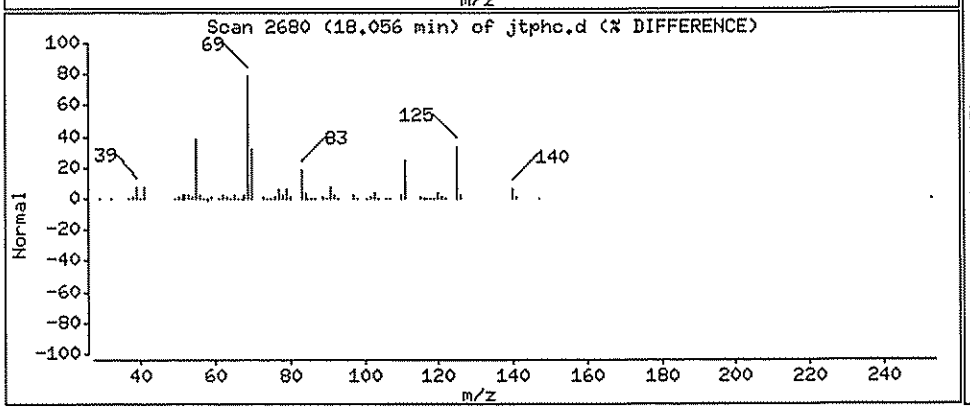
Column phase: Rtx-5 Column diameter: 0.32

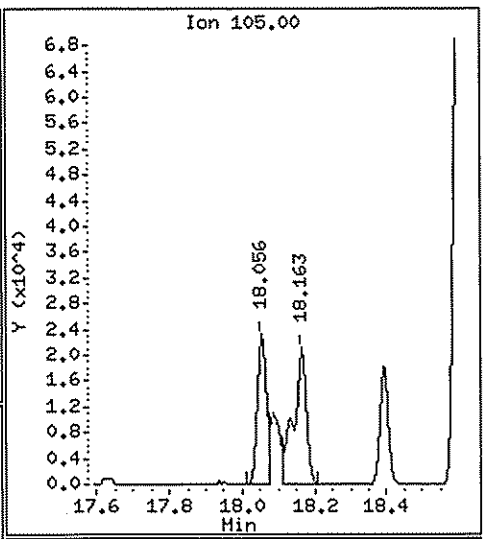
83 4-Ethyltoluene Concentration: 0.2169 ppb(v/v)

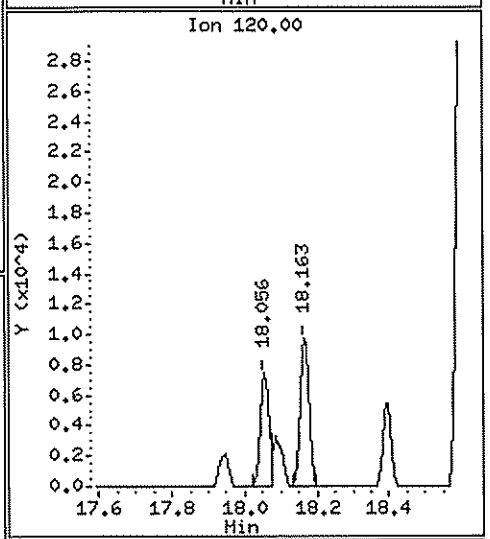


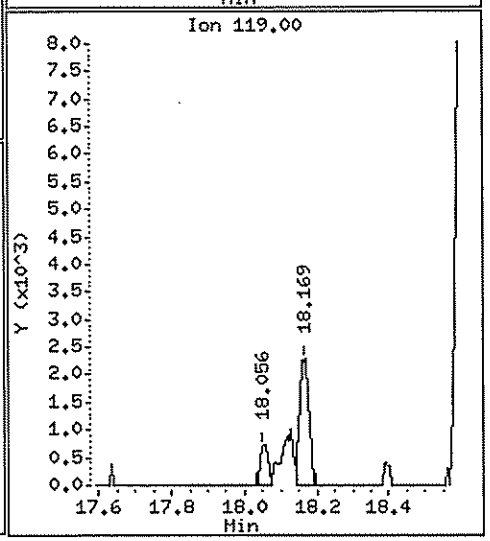












Data File: /var/chem/gcms/mj.i/J041607.b/jtphc.d

Date : 17-APR-2007 00:49

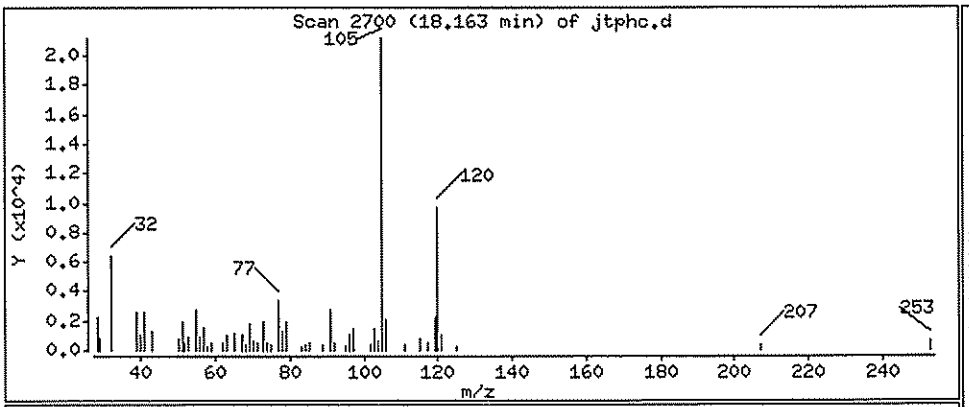
Client ID: SV-10(A.A) Instrument: mj.i

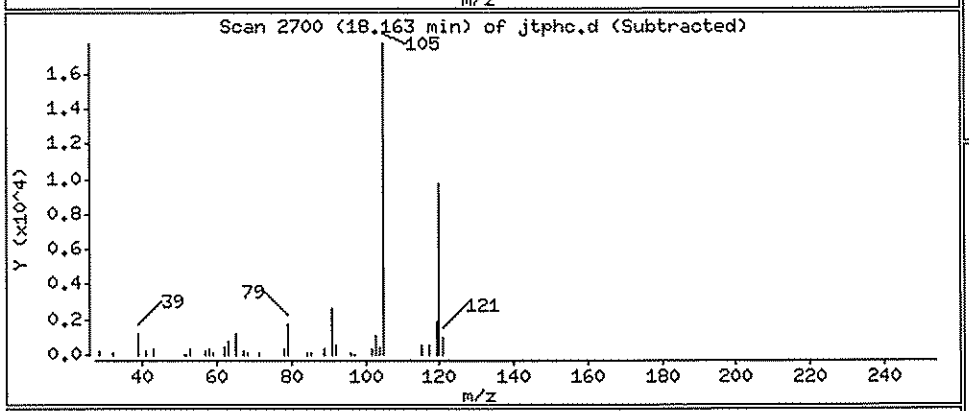
Sample Info: JTPHC1AD,,0,,,

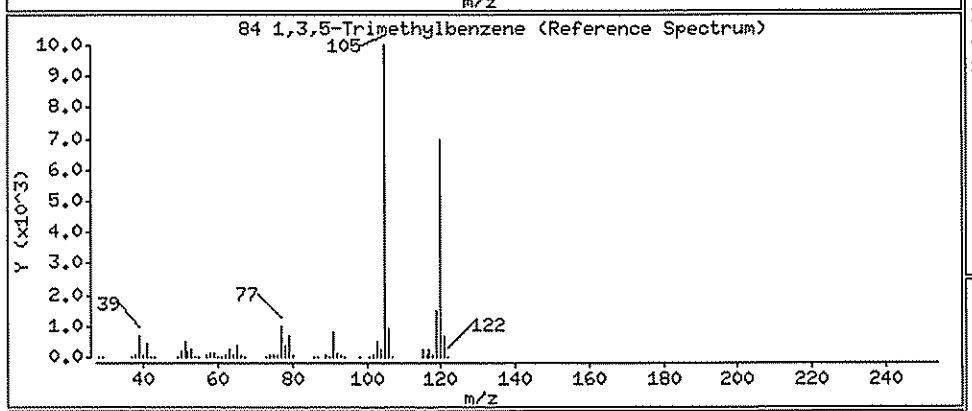
Purge Volume: 500.0 Operator: 7126

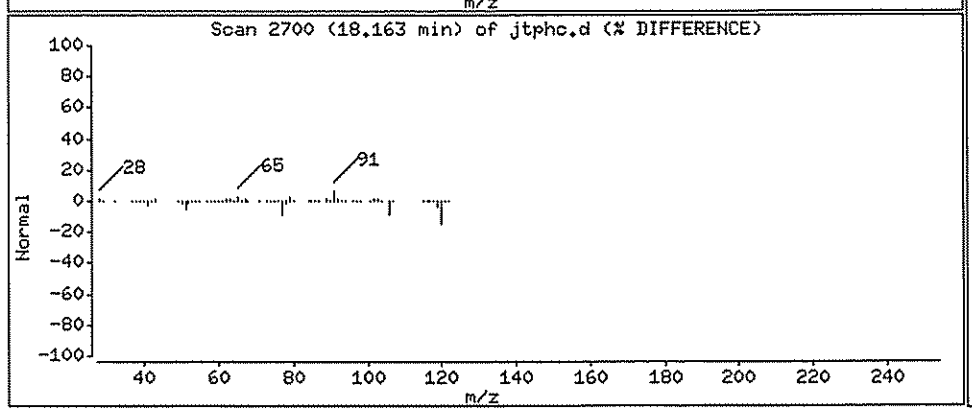
Column phase: Rtx-5 Column diameter: 0.32

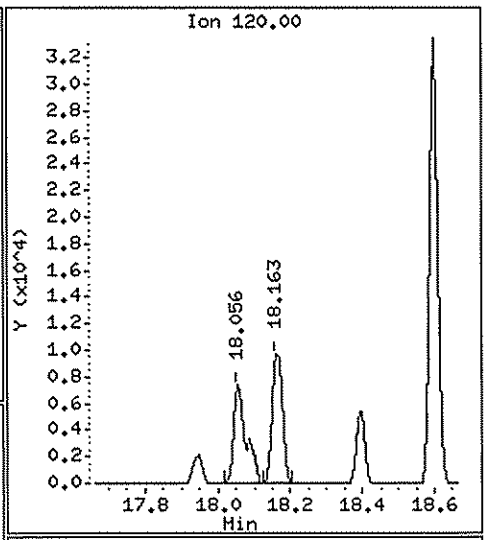
84 1,3,5-Trimethylbenzene Concentration: 0.2385 ppb(v/v)

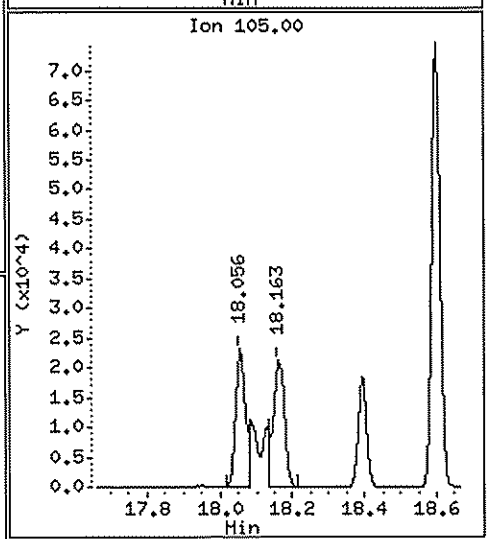


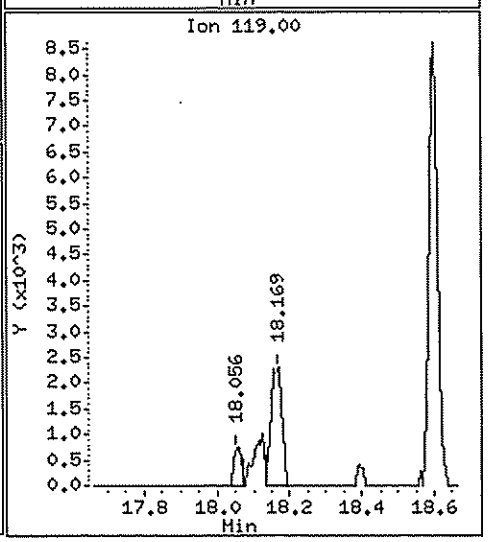












AKRF-White Plains

Client Sample ID: SV-12(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 004 **Work Order #** JTPHF1AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7107200
Dilution Factor.: 1558.8 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	120	ND	570
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	120	ND	870
Ethylbenzene	ND	120	ND	540
Trichlorofluoromethane	ND	120	ND	700
n-Heptane	ND	310	ND	1300
n-Hexane	**400**	**310**	**1400**	**1100**
2,2,4-Trimethylpentane	ND	310	ND	1500
Benzene	ND	120	ND	400
1,1,2,2-Tetrachloroethane	ND	120	ND	860
Tetrachloroethene	ND	120	ND	850
Toluene	**870**	**120**	**3300**	**470**
1,1,1-Trichloroethane	ND	120	ND	680
1,1,2-Trichloroethane	ND	120	ND	680
Trichloroethene	**12000**	**62**	**66000**	**340**
1,3,5-Trimethylbenzene	ND	120	ND	610
Vinyl chloride	ND	120	ND	320
o-Xylene	ND	120	ND	540
Methyl tert-butyl ether	ND	620	ND	2200
m-Xylene & p-Xylene	ND	120	ND	540
Bromodichloromethane	ND	120	ND	840
1,2-Dibromoethane (EDB)	ND	120	ND	960
Vinyl bromide	ND	120	ND	550
Bromoform	ND	120	ND	1300
Bromomethane	ND	120	ND	480
1,3-Butadiene	ND	250	ND	550
4-Ethyltoluene	ND	250	ND	1200
Carbon tetrachloride	ND	62	ND	390
Dibromochloromethane	ND	120	ND	1100
Chloroethane	ND	120	ND	330
Chloroform	ND	120	ND	610
3-Chloropropene	ND	120	ND	390
Cyclohexane	ND	310	ND	1100
Dichlorodifluoromethane	ND	120	ND	620
1,1-Dichloroethane	ND	120	ND	500
1,2-Dichloroethane	ND	120	ND	500
1,1-Dichloroethene	ND	120	ND	490
cis-1,2-Dichloroethene	**2700**	**120**	**11000**	**490**
trans-1,2-Dichloroethene	ND	120	ND	490
1,2-Dichloropropane	ND	120	ND	580

TO-14 _rev5.rpt version 5.0.103 10/12/2006

AKRF-White Plains

Client Sample ID: SV-12(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 004 **Work Order #** JTPHF1AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	120	ND	570

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	106	70 - 130
Toluene-d8	101	70 - 130
4-Bromofluorobenzene	97	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TO-14 _rev5.rpt version 5.0.103 10/12/2006

Data File: /var/chem/gcms/mj.i/J041607.b/jtphf.d
Report Date: 19-Apr-2007 18:59

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041607.b/jtphf.d
Lab Smp Id: JTPHF1AD Client Smp ID: SV-12(S.S)
Inj Date : 17-APR-2007 01:30
Operator : 7126 Inst ID: mj.i
Smp Info : JTPHF1AD,1558.8,0,,,
Misc Info : J041607,TO15,magna.sub,,,250 ML
Comment :
Method : /var/chem/gcms/mj.i/J041607.b/TO15.m
Meth Date : 19-Apr-2007 17:51 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 13
Dil Factor: 1558.80000
Integrator: HP RTE Compound Sublist: magna.sub
Target Version: 3.50

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

Name	Value	Description
DF	1558.80000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.900	8.899	(1.000)	138859	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.084	11.083	(1.000)	521116	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.807	15.806	(1.000)	459068	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.906	9.905	(0.894)	141188	4.25783	4.258
$ 5 Toluene-d8	98	13.725	13.724	(0.868)	451415	4.04080	4.041
$ 6 4-Bromofluorobenzene	95	17.442	17.441	(1.103)	358284	3.86778	3.868
39 Hexane	56	8.136	8.130	(0.914)	9264	0.25987	405.1
41 cis 1,2-Dichloroethene	96	8.566	8.555	(0.963)	82050	1.70984	2665
51 2,2,4-trimethylpentane	57	11.084	11.277	(1.000)	45363	0.21903	~~341.4~~
54 Trichloroethene	130	11.794	11.793	(1.064)	576030	7.83792	12220
62 Toluene	91	13.844	13.837	(0.876)	66795	0.55889	871.2

4-19-07

Data File: /var/chem/gcms/mj.i/J041607.b/jtphf.d
Report Date: 19-Apr-2007 18:59

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jtphf.d
Lab Smp Id: JTPHF1AD
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,magna.sub,,,250 ML

Calibration Date: 16-APR-2007
Calibration Time: 12:57
Client Smp ID: SV-12(S.S)
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	185541	110397	260685	138859	-25.16
2 1,4-Difluorobenze	738195	439226	1037164	521116	-29.41
3 Chlorobenzene-d5	652787	388408	917166	459068	-29.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.90	8.57	9.23	8.90	0.01
2 1,4-Difluorobenze	11.08	10.75	11.41	11.08	0.01
3 Chlorobenzene-d5	15.81	15.48	16.14	15.81	0.01

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J041607.b/jtphf.d
Report Date: 19-Apr-2007 18:59

STL Knoxville

RECOVERY REPORT

Client Name: AKRF-White Plains
Sample Matrix: GAS
Lab Smp Id: JTPHF1AD
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: magna.sub
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,magna.sub,,,250 ML

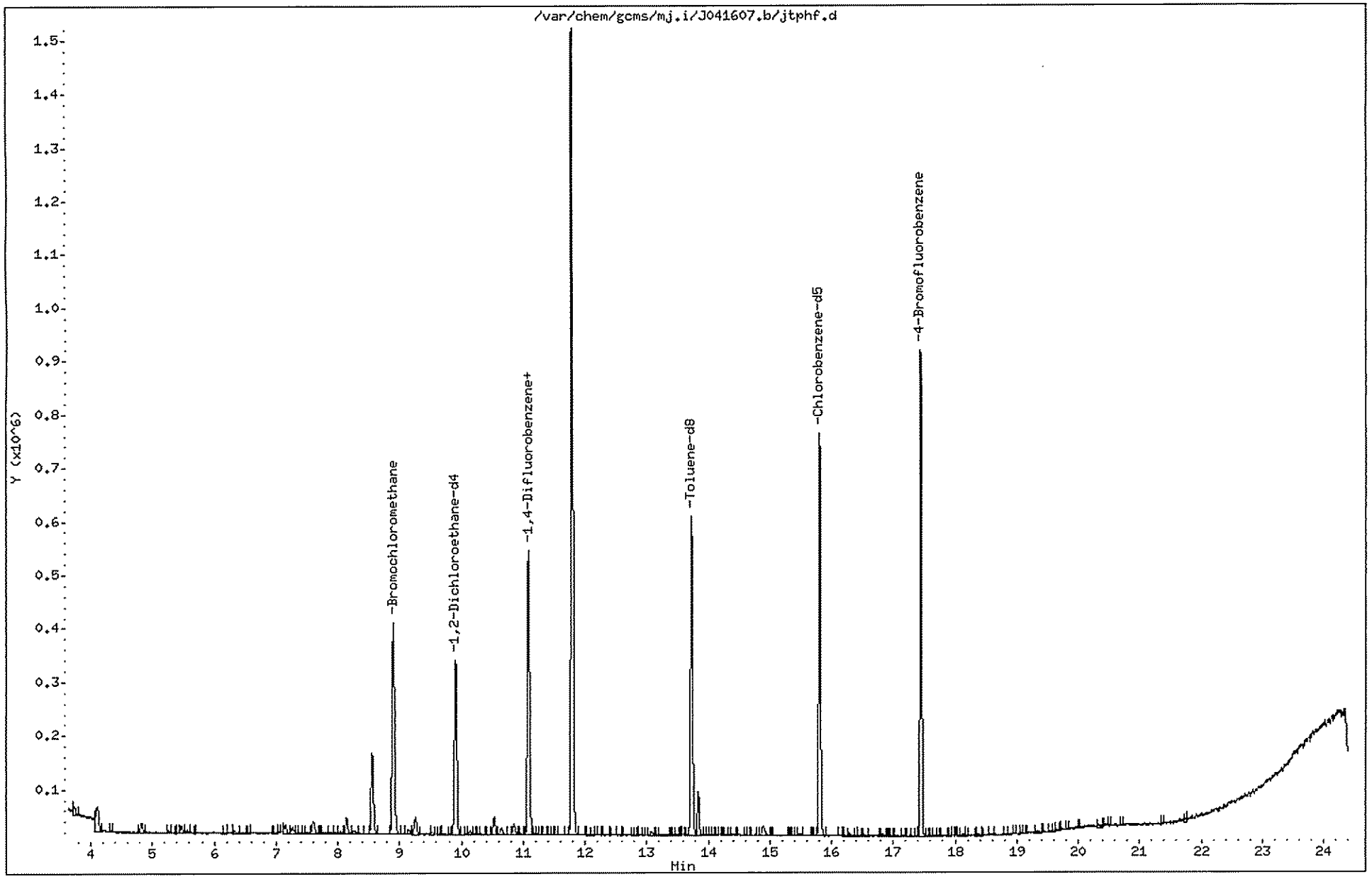
Client SDG: H7D110232
Fraction: OTHER
Client Smp ID: SV-12(S.S)
Operator: 7126
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	4.000	4.258	106.45	70-130
$ 5 Toluene-d8	4.000	4.041	101.02	70-130
$ 6 4-Bromofluorobenze	4.000	3.868	96.69	70-130

Data File: /var/chem/gcms/mj.i/J041607.b/jtphf.d
Date : 17-APR-2007 01:30
Client ID: SV-12(S.S)
Sample Info: JTPHF1AD,1558.8,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J041607.b/jtphf.d

Date : 17-APR-2007 01:30

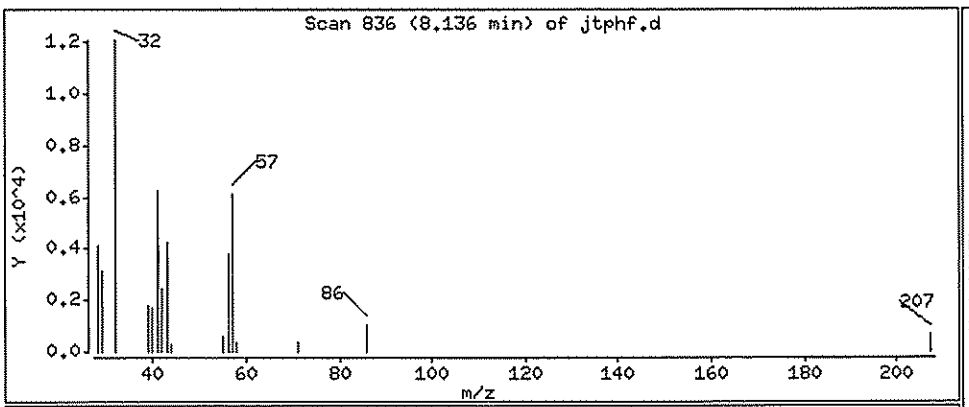
Client ID: SV-12(S.S) Instrument: mj.i

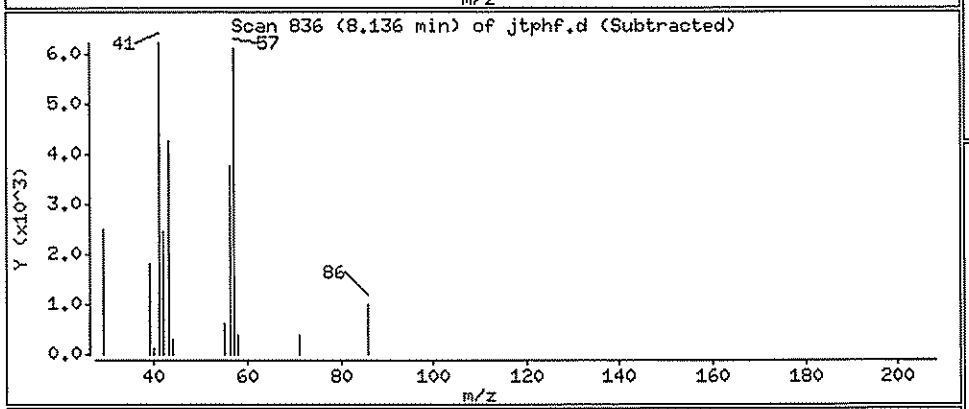
Sample Info: JTPHF1AD,1558.8,0,,,

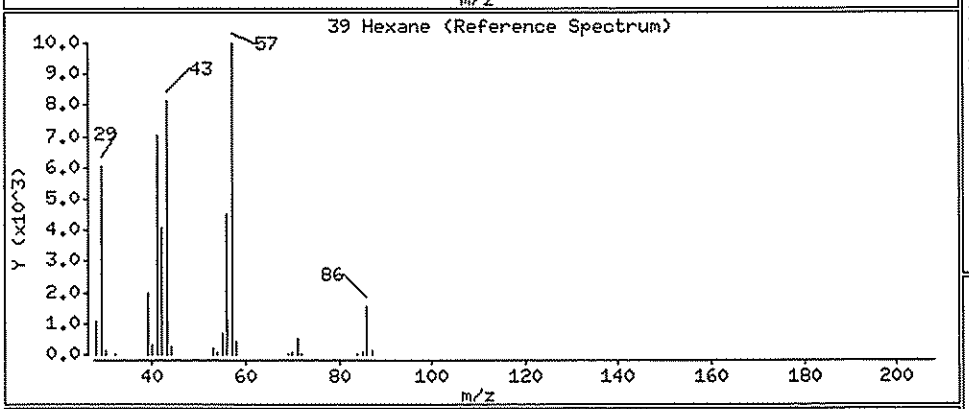
Purge Volume: 500.0 Operator: 7126

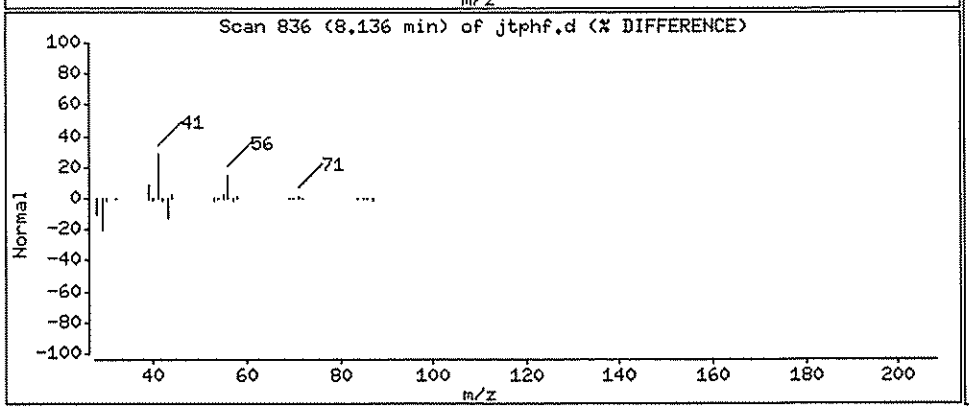
Column phase: Rtx-5 Column diameter: 0.32

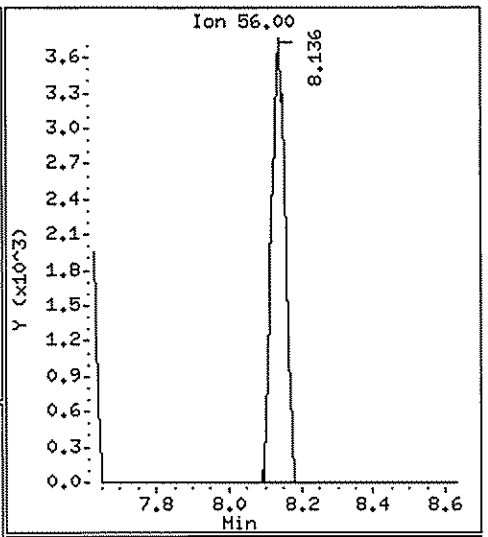
39 Hexane Concentration: 405.1 ppb(v/v)

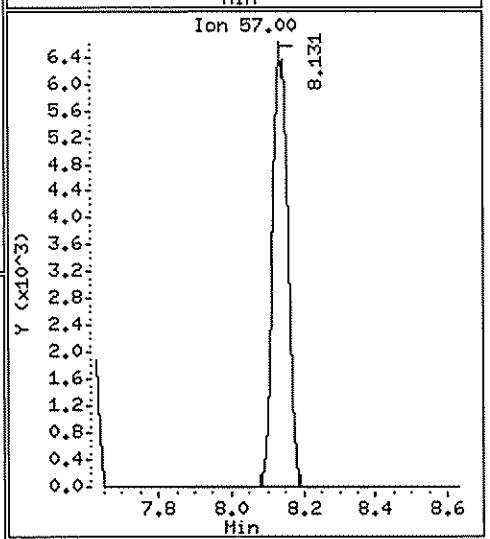


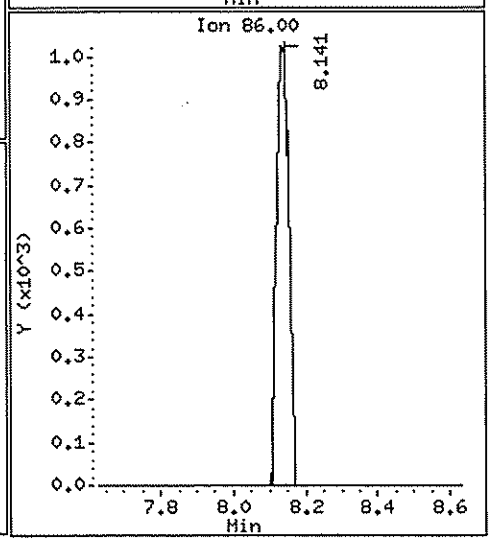












Data File: /var/chem/gcms/mj.i/J041607.b/jtphf.d

Date : 17-APR-2007 01:30

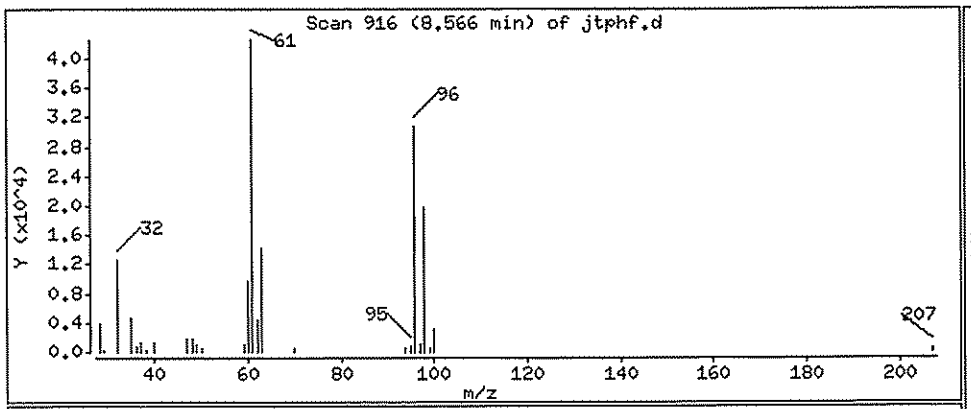
Client ID: SV-12(S.S) Instrument: mj.i

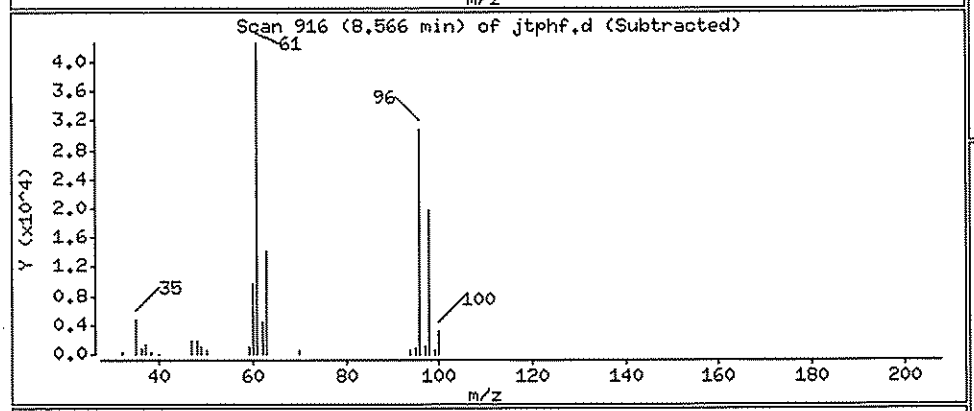
Sample Info: JTPHF1AD,1558.8,0,,,

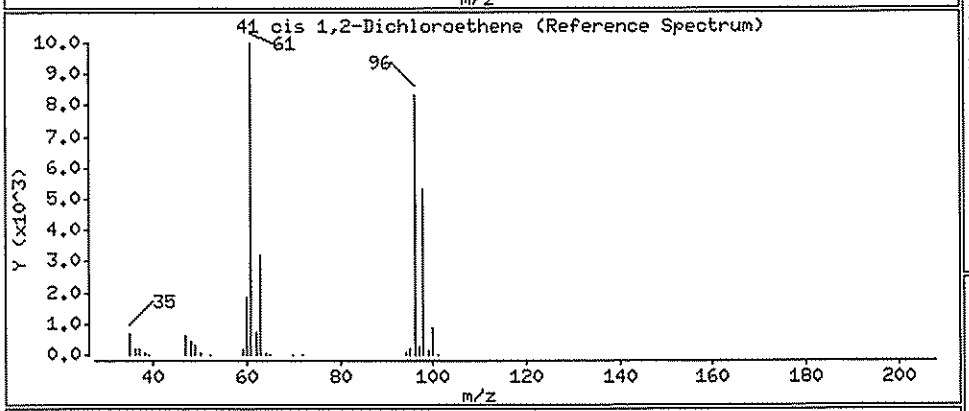
Purge Volume: 500.0 Operator: 7126

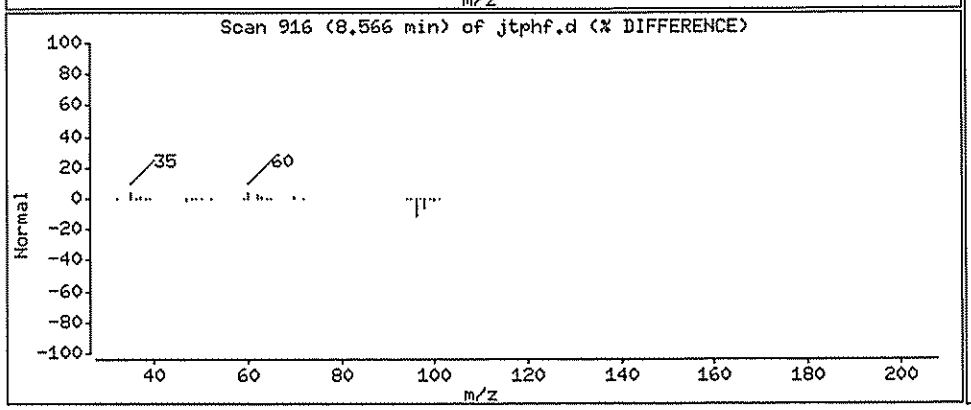
Column phase: Rtx-5 Column diameter: 0.32

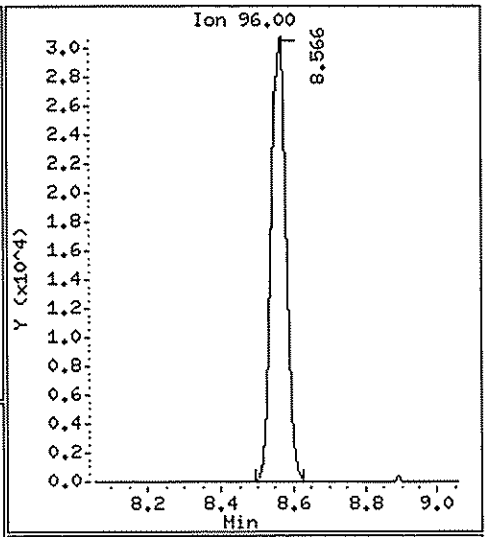
41 cis 1,2-Dichloroethene Concentration: 2665 ppb(v/v)

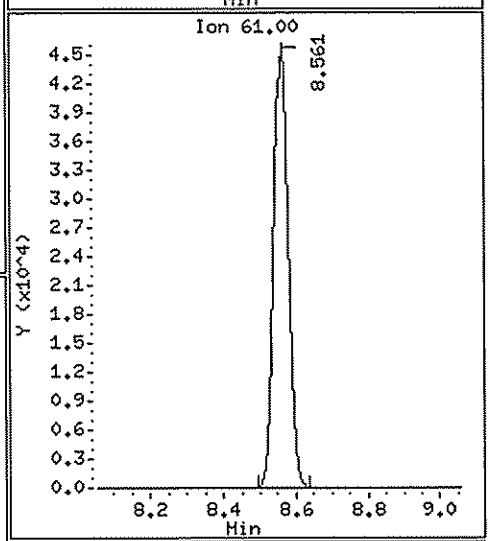


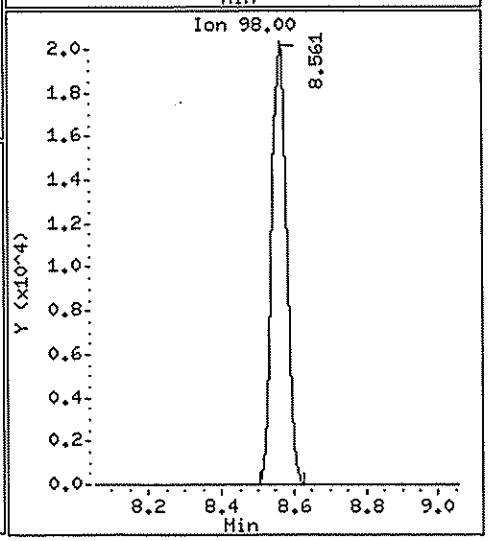












Data File: /var/chem/gcms/mj.i/J041607.b/jtphf.d

Date : 17-APR-2007 01:30

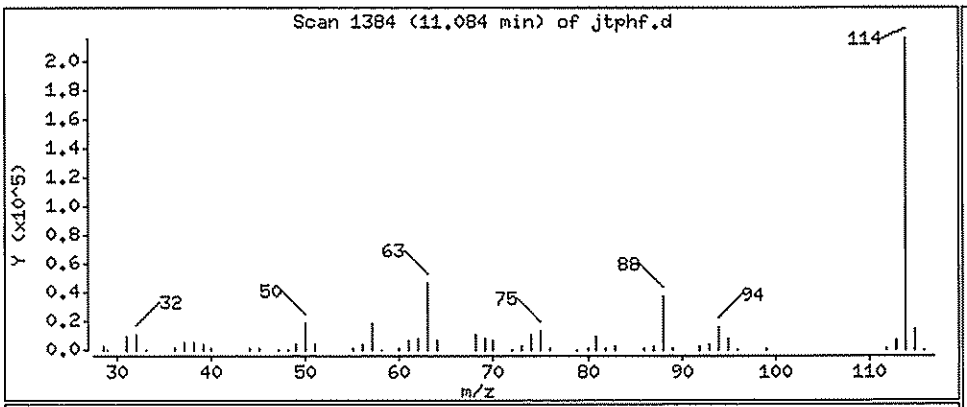
Client ID: SV-12(S.S) Instrument: mj.i

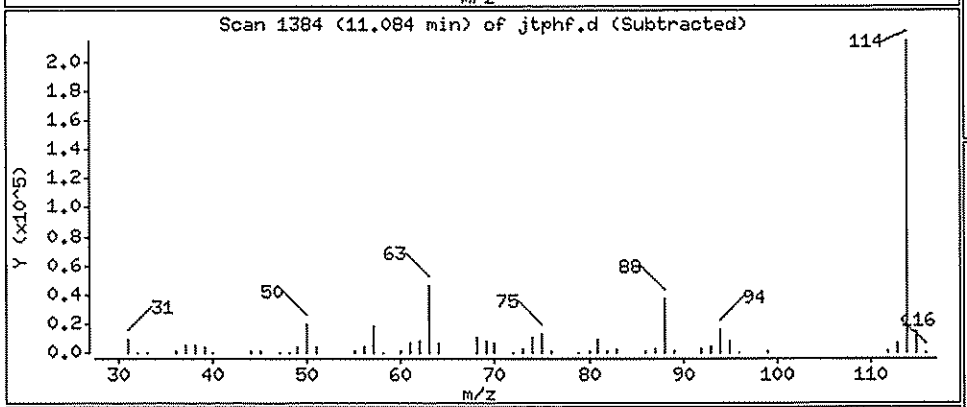
Sample Info: JTPHF1AD,1558.8,0,,,

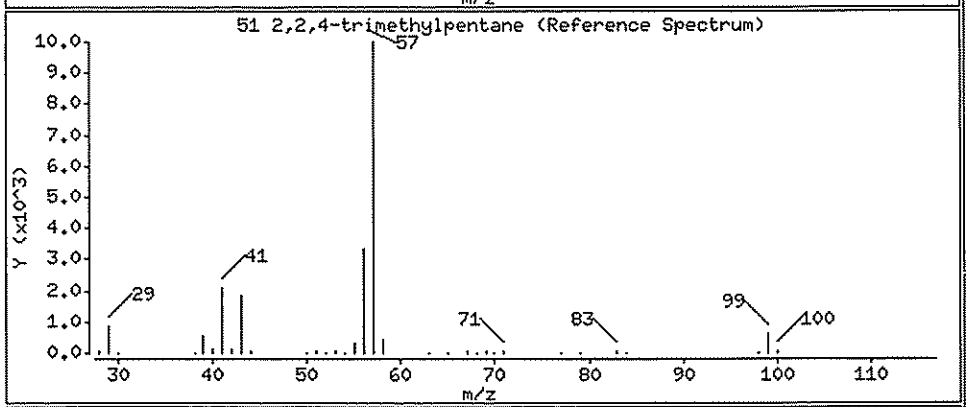
Purge Volume: 500.0 Operator: 7126

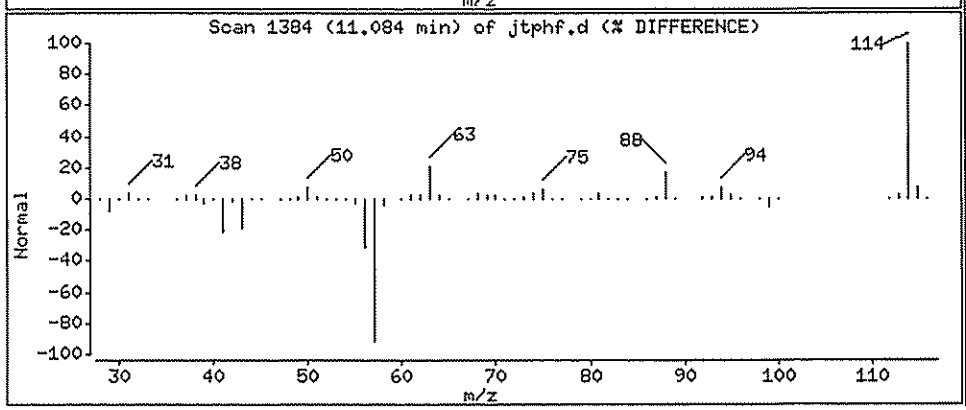
Column phase: Rtx-5 Column diameter: 0.32

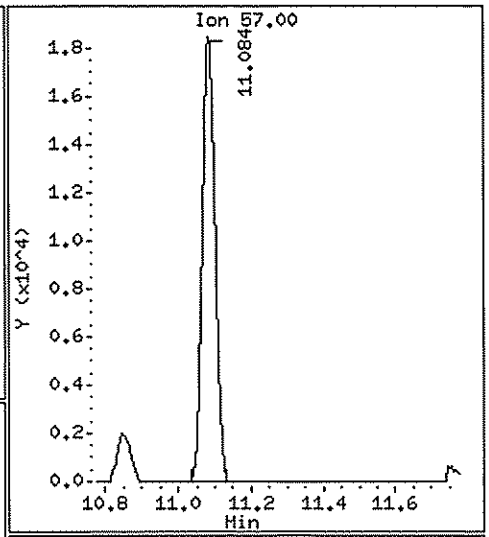
51 2,2,4-trimethylpentane Concentration: 341.4 ppb(v/v)

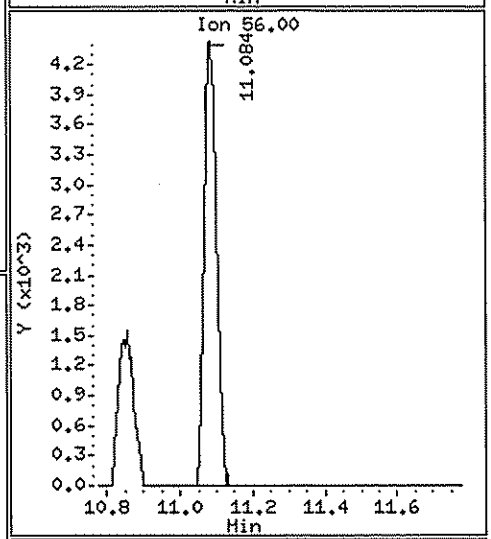


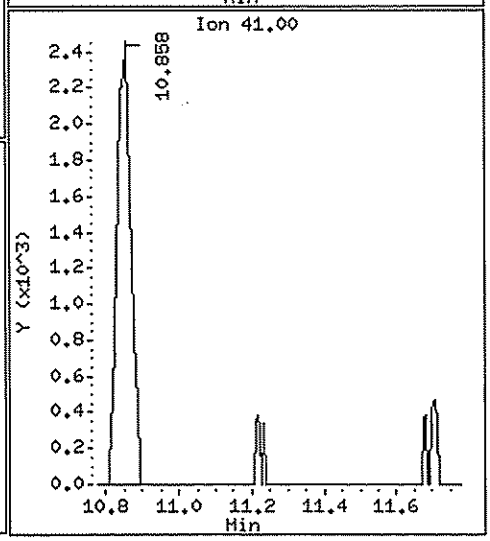












Data File: /var/chem/gcms/mj.i/J041607.b/jtphf.d

Date : 17-APR-2007 01:30

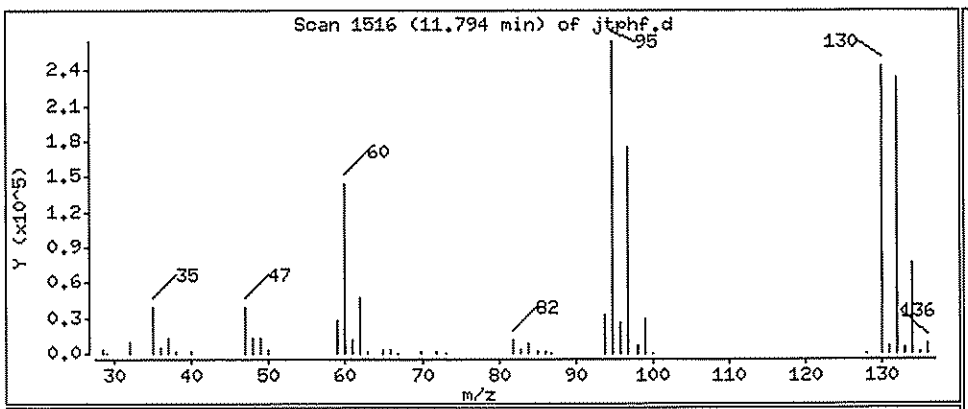
Client ID: SV-12(S,S) Instrument: mj.i

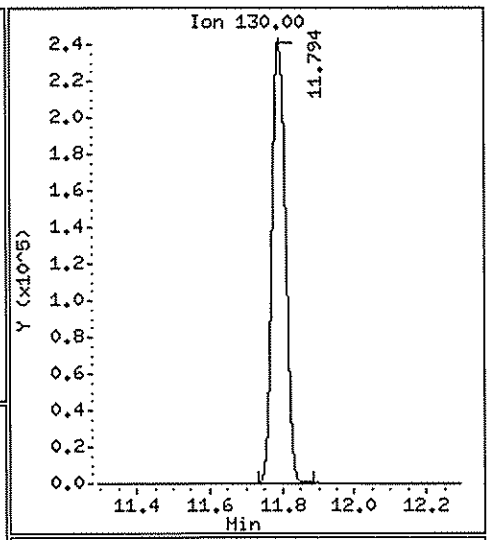
Sample Info: JTPHF1AD,1558.8,0,,,

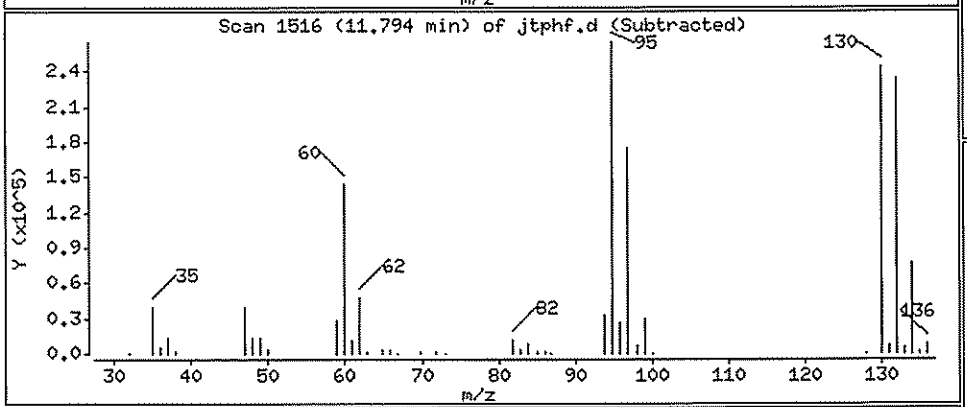
Purge Volume: 500.0 Operator: 7126

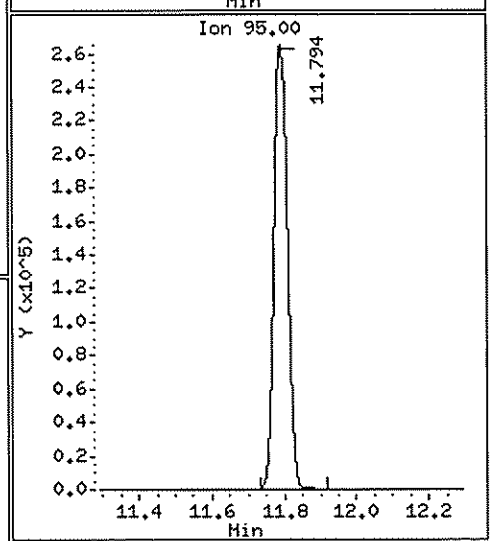
Column phase: Rtx-5 Column diameter: 0.32

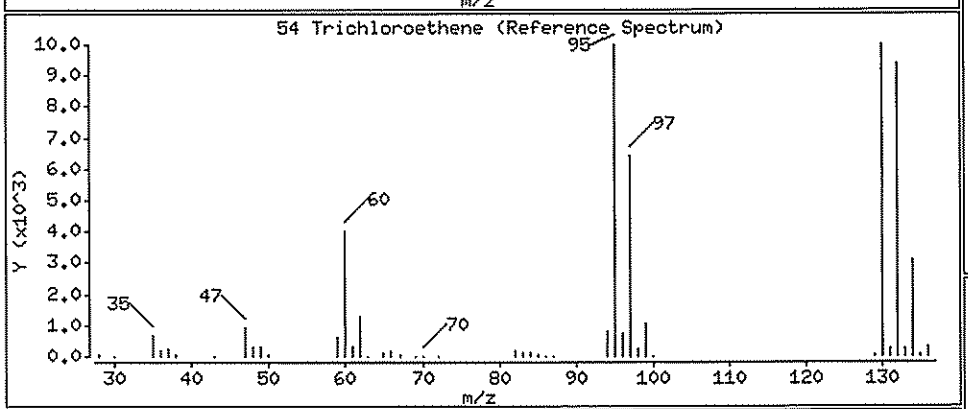
54 Trichloroethene Concentration: 12220 ppb(v/v)

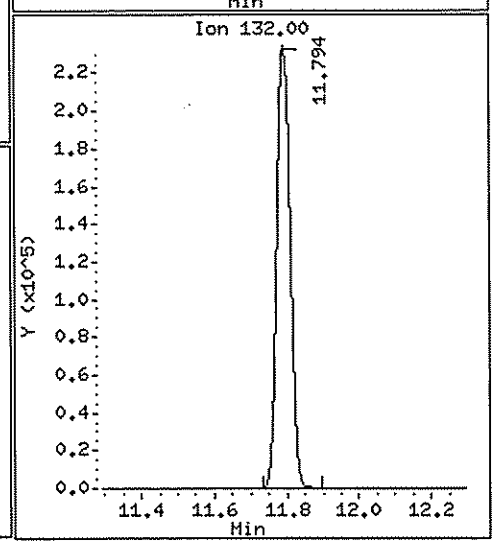


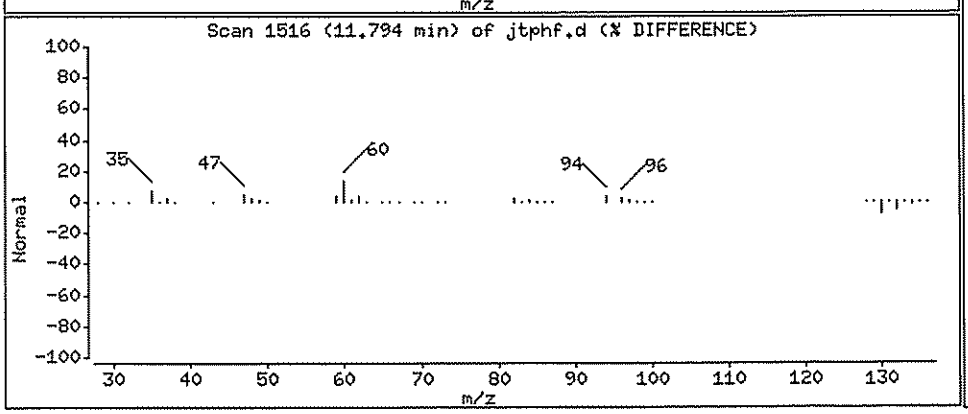












Data File: /var/chem/gcms/mj.i/J041607.b/jtphf.d

Date : 17-APR-2007 01:30

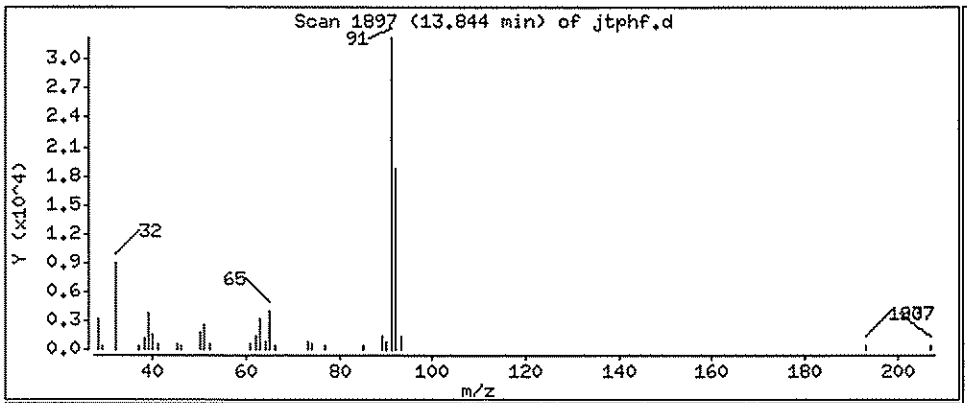
Client ID: SV-12(S.S) Instrument: mj.i

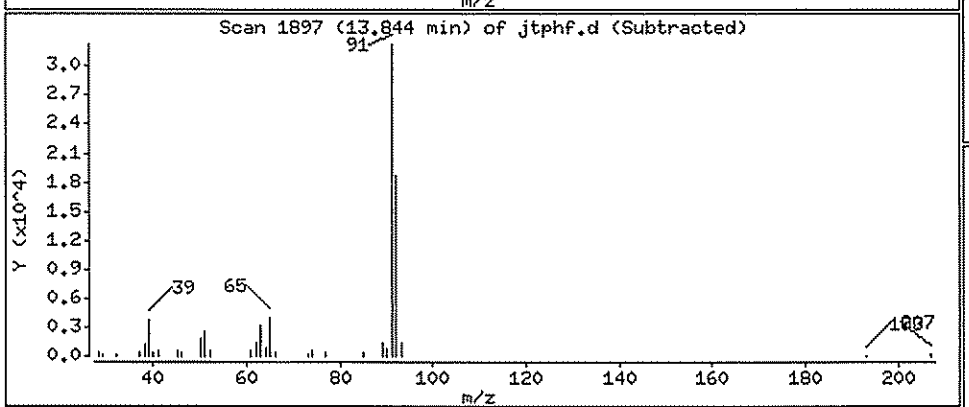
Sample Info: JTPHF1AD,1558.8,0,,,

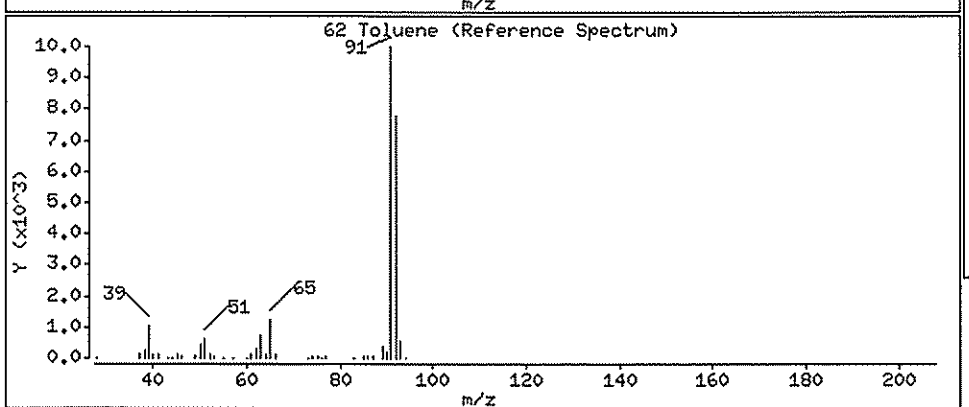
Purge Volume: 500.0 Operator: 7126

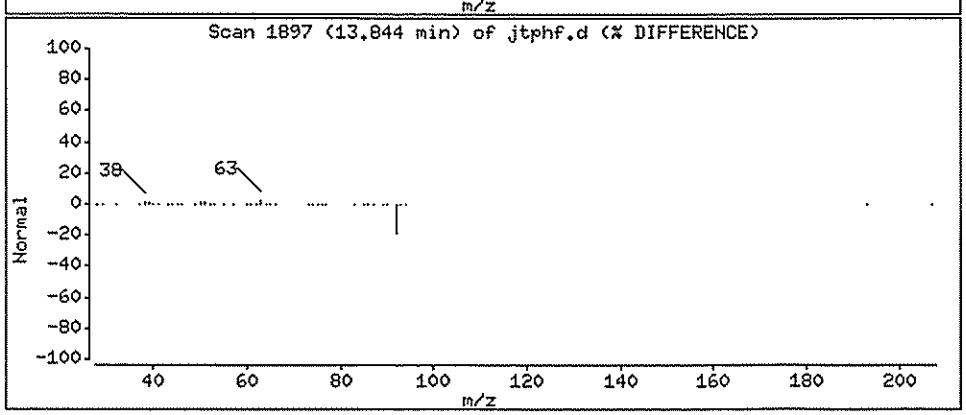
Column phase: Rtx-5 Column diameter: 0.32

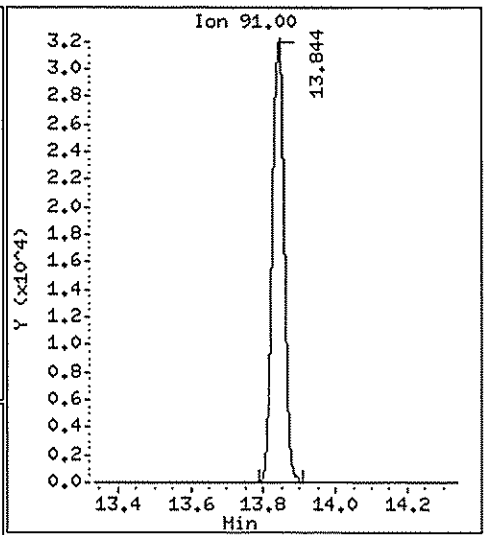
62 Toluene Concentration: 871.2 ppb(v/v)

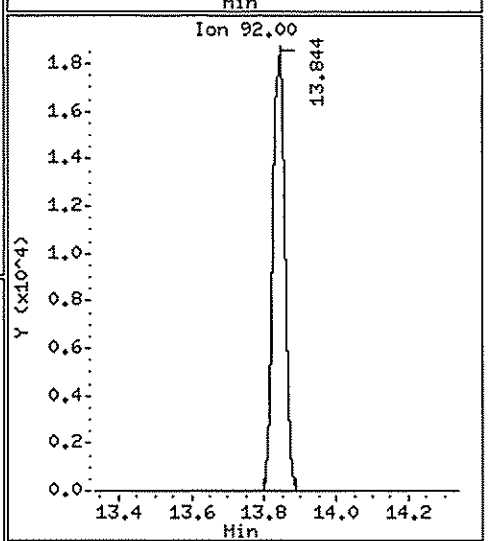












AKRF-White Plains

Client Sample ID: SV-12(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 005 **Work Order #** JTPHX1AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/17/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7108057
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	**0.14**	**0.080**	**0.62**	**0.35**
Trichlorofluoromethane	**0.30**	**0.080**	**1.7**	**0.45**
n-Heptane	ND	0.20	ND	0.82
n-Hexane	ND	0.20	ND	0.70
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.22**	**0.080**	**0.71**	**0.26**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**1.1**	**0.080**	**4.0**	**0.30**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	**0.54**	**0.040**	**2.9**	**0.21**
1,3,5-Trimethylbenzene	**0.16**	**0.080**	**0.78**	**0.39**
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	**0.14**	**0.080**	**0.59**	**0.35**
Methyl tert-butyl ether	ND	0.40	ND	1.4
m-Xylene & p-Xylene	**0.43**	**0.080**	**1.9**	**0.35**
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	**0.081**	**0.040**	**0.51**	**0.25**
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	ND	0.20	ND	0.69
Dichlorodifluoromethane	**0.45**	**0.080**	**2.2**	**0.40**
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37

AKRF-White Plains

Client Sample ID: SV-12(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 005 **Work Order #** JTPHX1AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	117	70 - 130
Toluene-d8	95	70 - 130
4-Bromofluorobenzene	97	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TO-14 _rev5.rpt version 5.0.103 10/12/2006

Data File: /var/chem/gcms/mj.i/J041707.b/jtphx.d
Report Date: 18-Apr-2007 12:00

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041707.b/jtphx.d
Lab Smp Id: JTPHX1AD Client Smp ID: SV-12(A.A)
Inj Date : 17-APR-2007 19:29
Operator : 7126 Inst ID: mj.i
Smp Info : JTPHX1AD,,0,,,
Misc Info : J041707,TO15,mabna.sub,,,500 ML
Comment :
Method : /var/chem/gcms/mj.i/J041707.b/TO15.m
Meth Date : 18-Apr-2007 11:59 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: magna.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.891	8.894	(1.000)	181666	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.081	11.089	(1.000)	621935	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.804	15.806	(1.000)	479342	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.897	9.911	(0.893)	184523	4.66262	4.663
$ 5 Toluene-d8	98	13.722	13.725	(0.868)	442960	3.79740	3.797
$ 6 4-Bromofluorobenzene	95	17.439	17.442	(1.103)	375095	3.87798	3.878
8 Dichlorodifluoromethane	85	3.770	3.773	(0.424)	98526	0.45220	0.4522
20 Trichlorofluoromethane	101	5.255	5.263	(0.591)	64283	0.29639	0.2964
49 Benzene	78	10.532	10.540	(0.950)	33212	0.22164	0.2216
50 Carbon Tetrachloride	117	10.548	10.556	(1.186)	13248	0.08085	0.08085
51 2,2,4-trimethylpentane	57	11.081	11.282	(1.000)	54314	0.21973	~~0.2197~~
54 Trichloroethene	130	11.785	11.793	(1.064)	47551	0.54213	0.5421
62 Toluene	91	13.835	13.838	(0.875)	133374	1.06876	1.069
70 Ethylbenzene	91	16.137	16.140	(1.021)	21212	0.14355	0.1435
71 m&p-Xylene	91	16.293	16.296	(1.031)	48875	0.42747	0.4275
75 o-Xylene	91	16.821	16.823	(1.064)	17031	0.13704	0.1370

4-19-07

Data File: /var/chem/gcms/mj.i/J041707.b/jtphx.d
Report Date: 18-Apr-2007 12:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
83 4-Ethyltoluene	105	18.052	18.087	(1.142)	33376	0.20854	~~0.2085~~
84 1,3,5-Trimethylbenzene	120	18.160	18.163	(1.149)	9374	0.15857	0.1586

CM 4-19-07

Data File: /var/chem/gcms/mj.i/J041707.b/jtphx.d
Report Date: 18-Apr-2007 12:00

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jtphx.d
Lab Smp Id: JTPHX1AD
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J041707.b/TO15.m
Misc Info: J041707,TO15,mabna.sub,,,500 ML

Calibration Date: 17-APR-2007
Calibration Time: 10:04
Client Smp ID: SV-12(A.A)
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	174498	103826	245170	181666	4.11
2 1,4-Difluorobenze	650922	387299	914545	621935	-4.45
3 Chlorobenzene-d5	597966	355790	840142	479342	-19.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.89	8.56	9.22	8.89	-0.03
2 1,4-Difluorobenze	11.09	10.76	11.42	11.08	-0.07
3 Chlorobenzene-d5	15.81	15.48	16.14	15.80	-0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J041707.b/jtphx.d
Report Date: 18-Apr-2007 12:00

STL Knoxville

RECOVERY REPORT

Client Name: AKRF-White Plains
Sample Matrix: GAS
Lab Smp Id: JTPHX1AD
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: magna.sub
Method File: /var/chem/gcms/mj.i/J041707.b/TO15.m
Misc Info: J041707,TO15,mabna.sub,,,500 ML

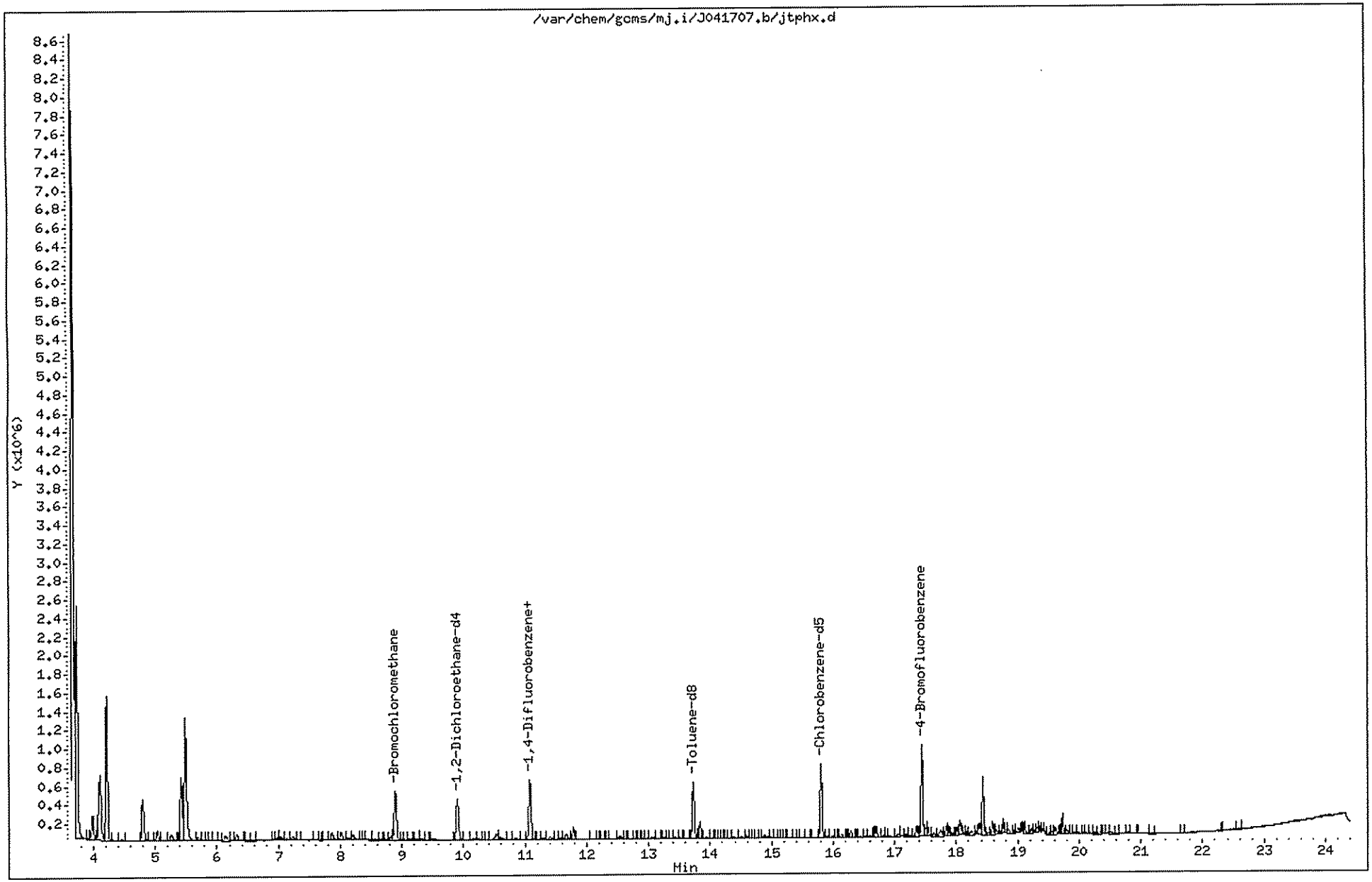
Client SDG: H7D110232
Fraction: OTHER
Client Smp ID: SV-12(A.A)
Operator: 7126
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	4.000	4.663	116.57	70-130
$ 5 Toluene-d8	4.000	3.797	94.94	70-130
$ 6 4-Bromofluorobenze	4.000	3.878	96.95	70-130

Data File: /var/chem/gcms/mj.i/J041707.b/jtphx.d
Date : 17-APR-2007 19:29
Client ID: SV-12(A,A)
Sample Info: JTPHX1AD,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J041707.b/jtphx.d

Date : 17-APR-2007 19:29

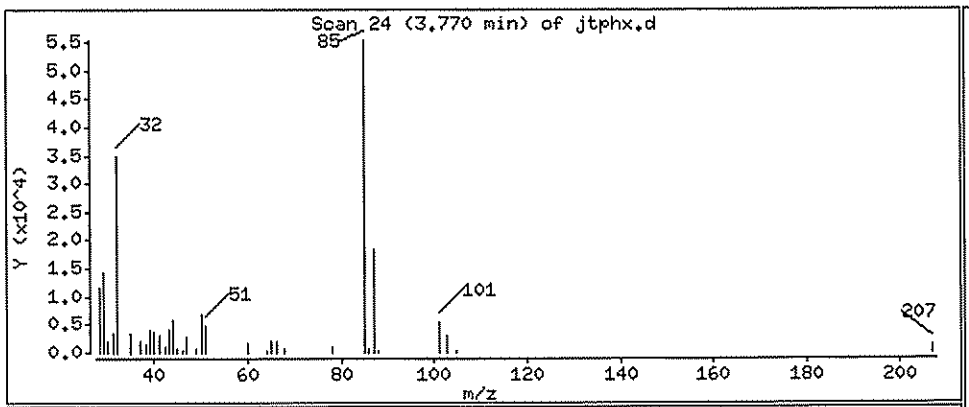
Client ID: SV-12(A,A) Instrument: mj.i

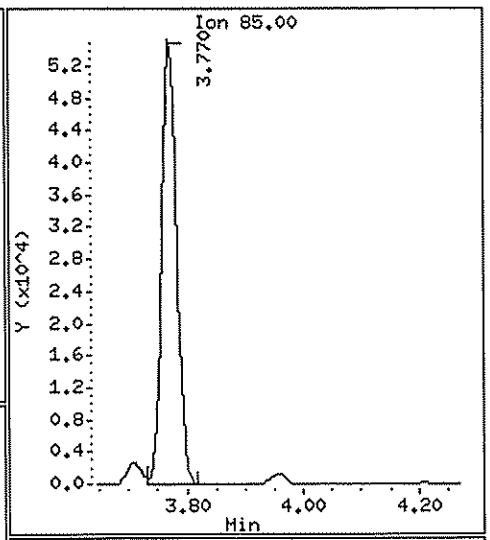
Sample Info: JTPHX1AD,,0,,,

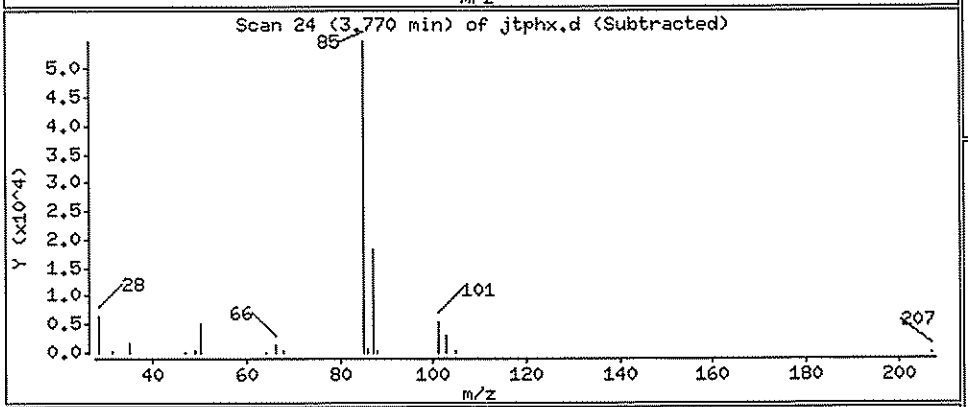
Purge Volume: 500.0 Operator: 7126

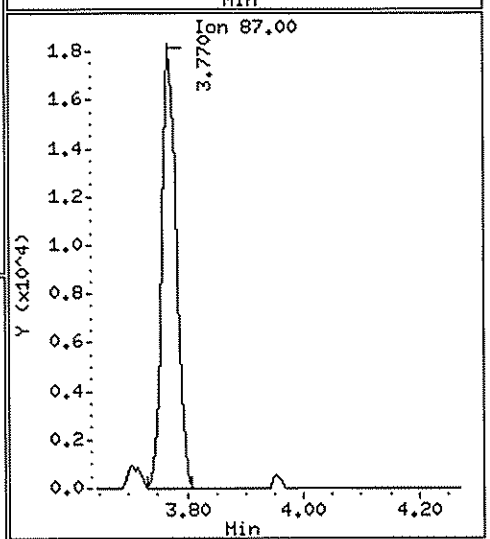
Column phase: Rtx-5 Column diameter: 0.32

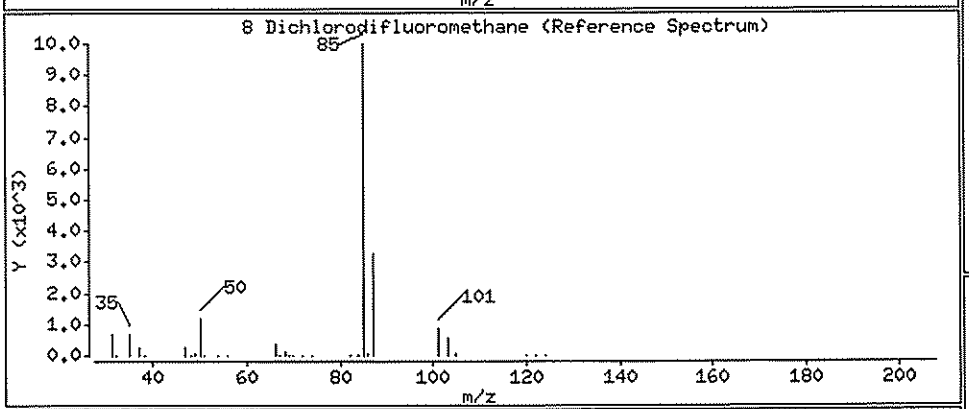
8 Dichlorodifluoromethane Concentration: 0.4522 ppb(v/v)

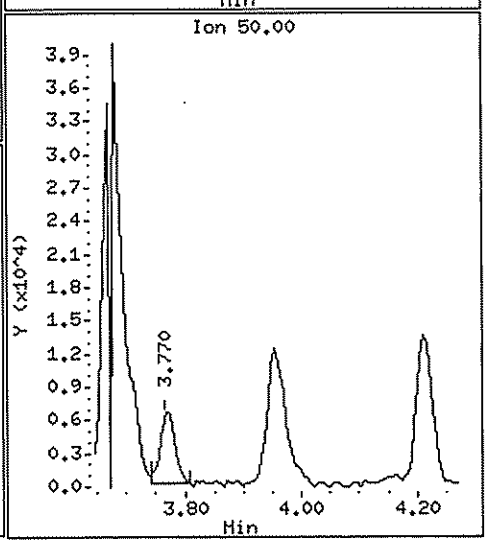


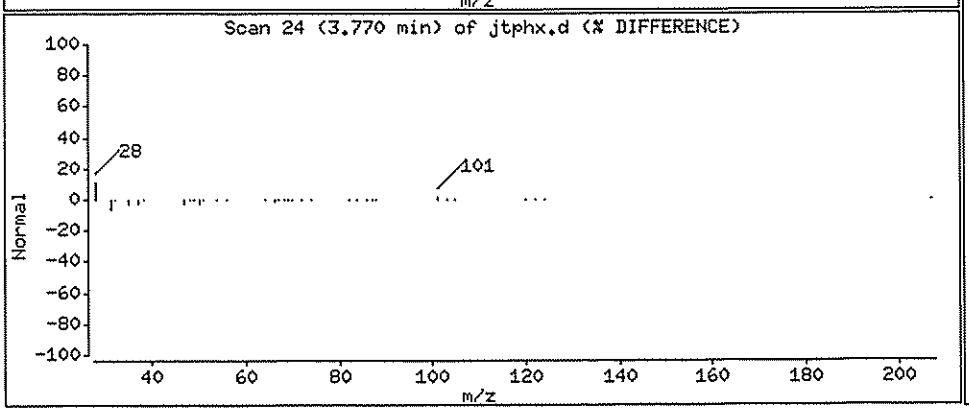












Data File: /var/chem/gcms/mj.i/J041707.b/jtphx.d

Date : 17-APR-2007 19:29

Client ID: SV-12(A.A)

Instrument: mj.i

Sample Info: JTPHX1AD,,0,,,

Purge Volume: 500.0

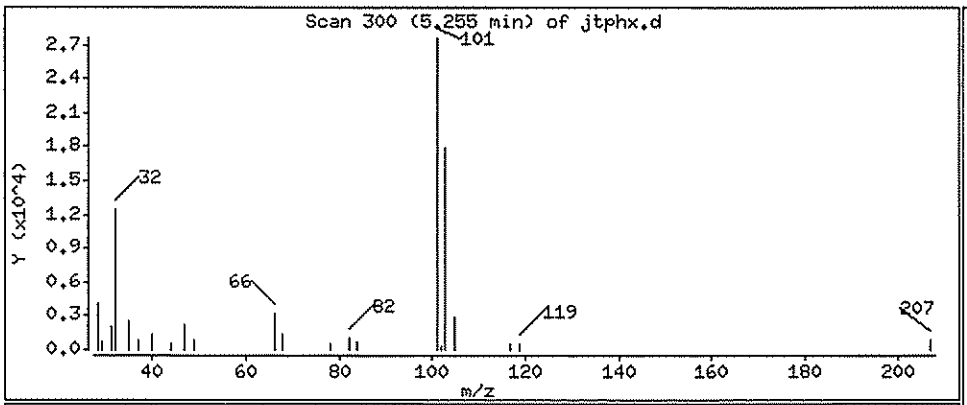
Operator: 7126

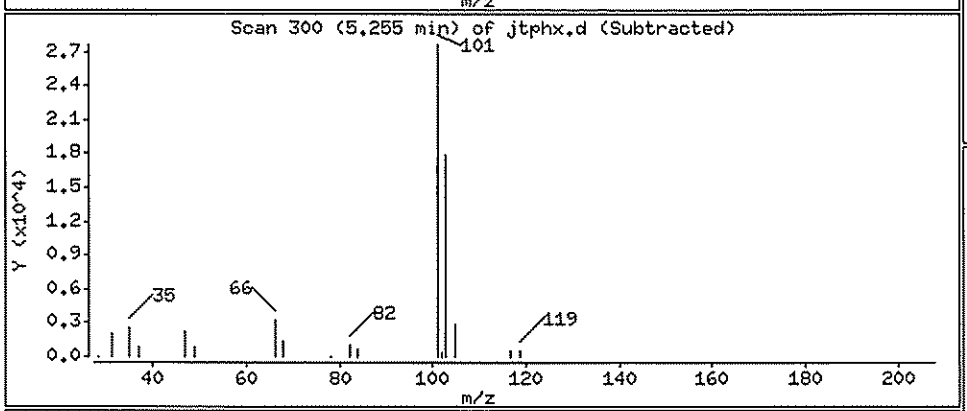
Column phase: Rtx-5

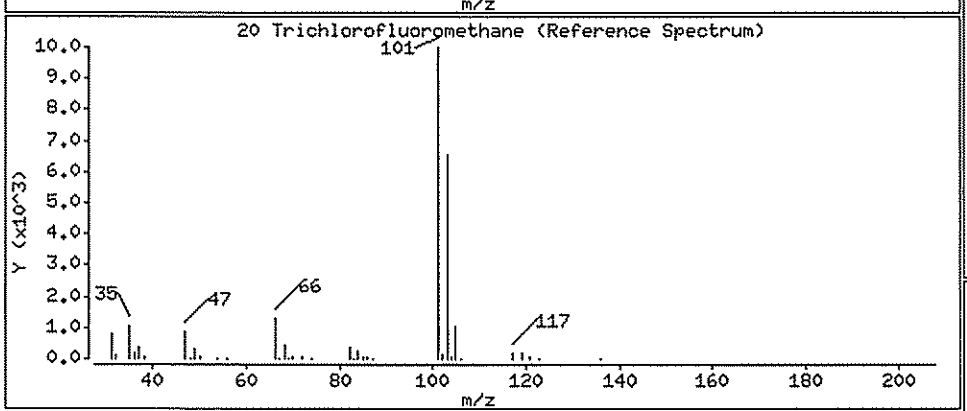
Column diameter: 0.32

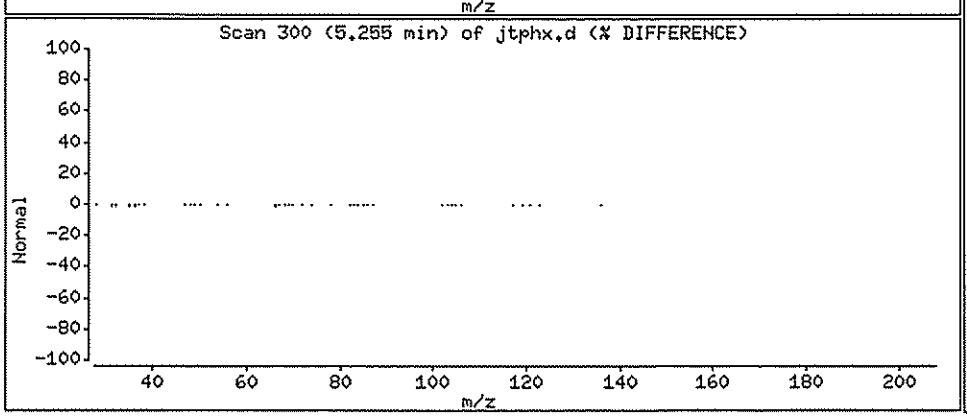
20 Trichlorofluoromethane

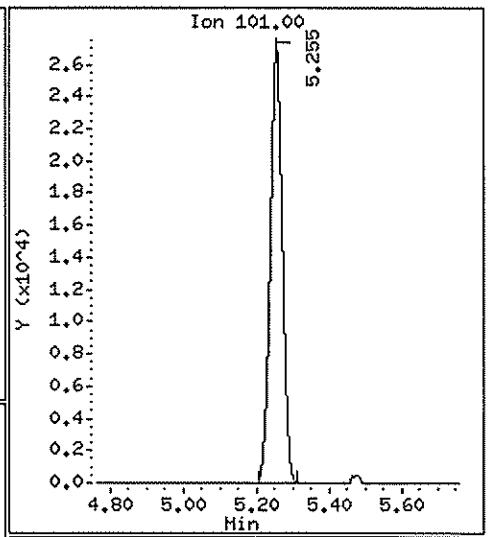
Concentration: 0.2964 ppb(v/v)

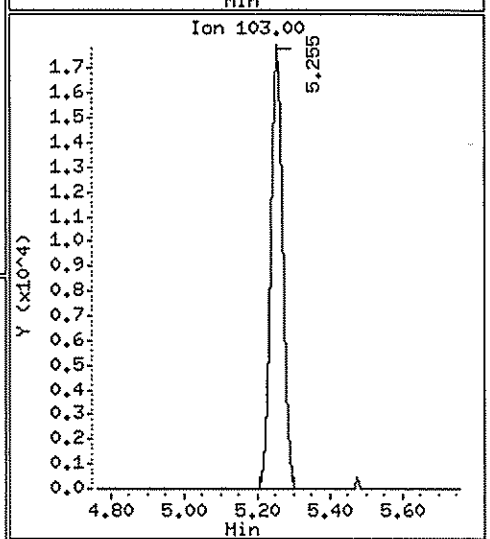


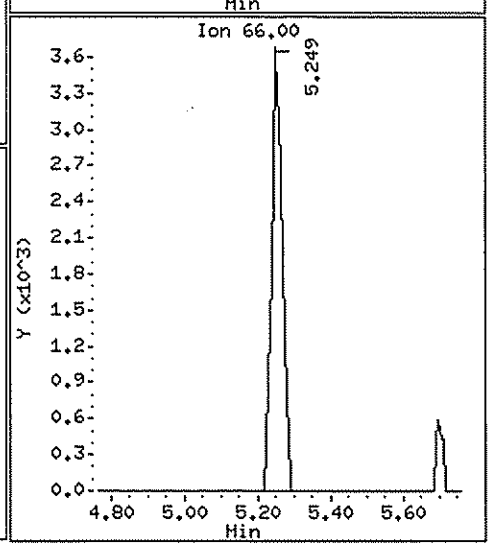












Data File: /var/chem/gcms/mj.i/J041707.b/jtphx.d

Date : 17-APR-2007 19:29

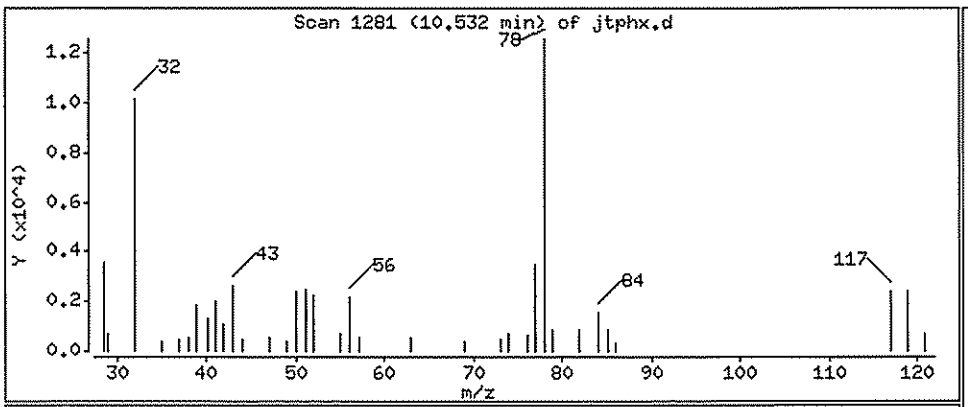
Client ID: SV-12(A.A) Instrument: mj.i

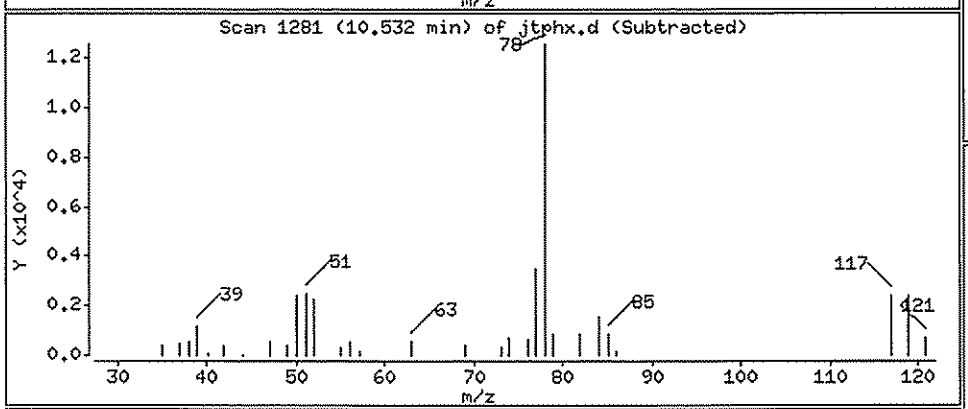
Sample Info: JTPHX1AD,,0,,,

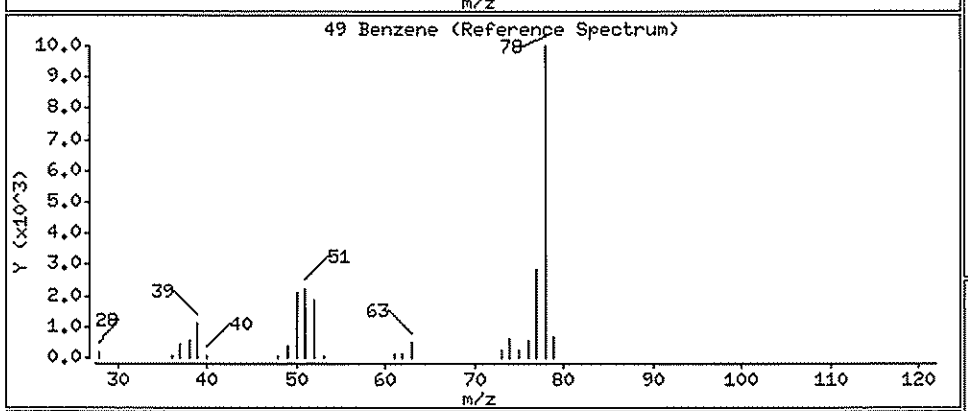
Purge Volume: 500.0 Operator: 7126

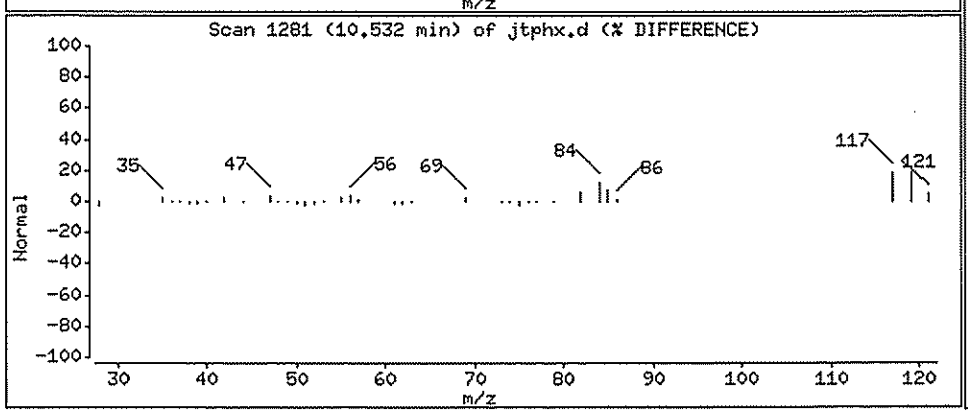
Column phase: Rtx-5 Column diameter: 0.32

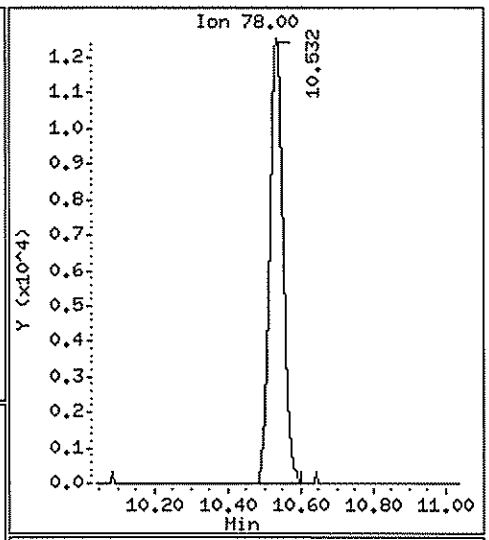
49 Benzene Concentration: 0.2216 ppb(v/v)

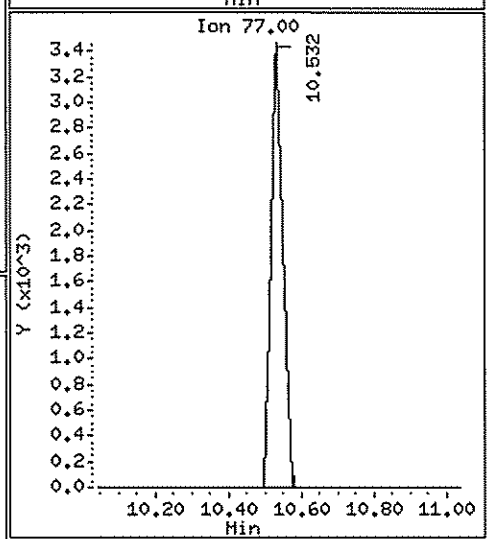


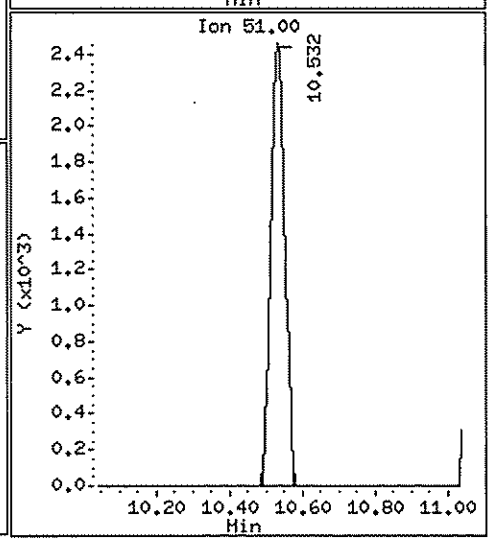












Data File: /var/chem/gcms/mj.i/J041707.b/jtphx.d

Date : 17-APR-2007 19:29

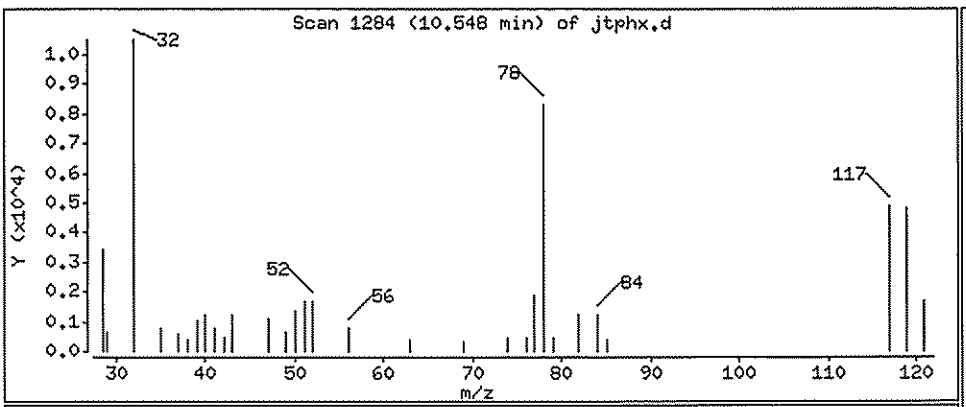
Client ID: SV-12(A,A) Instrument: mj.i

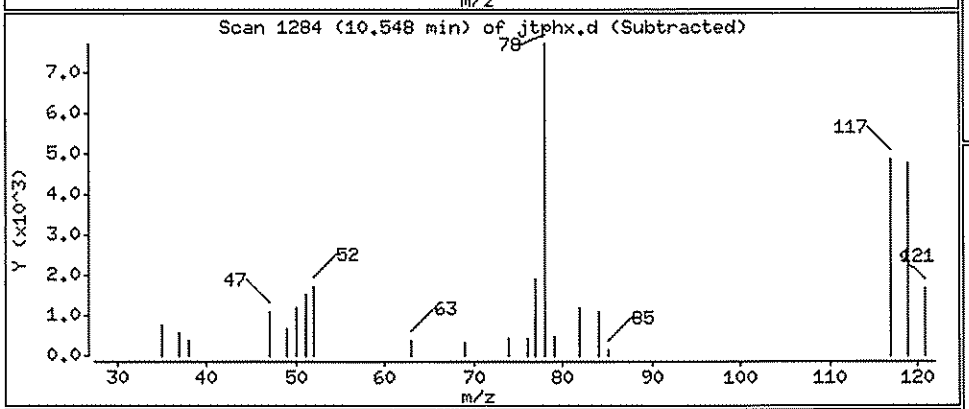
Sample Info: JTPHX1AD,,0,,,

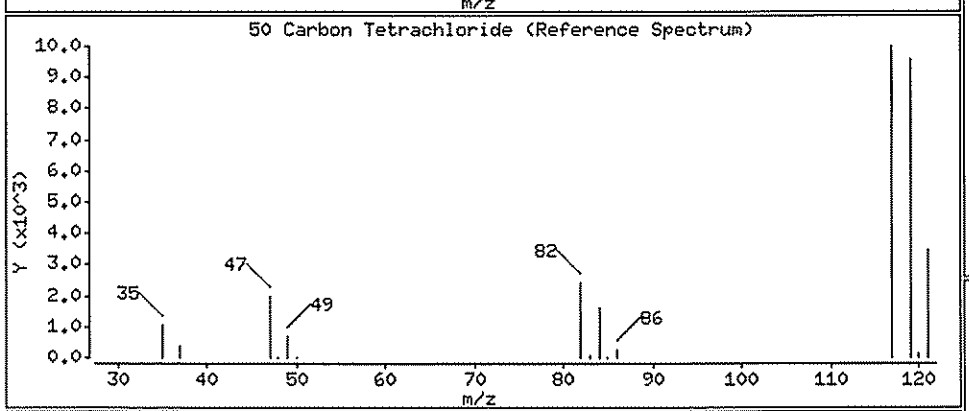
Purge Volume: 500.0 Operator: 7126

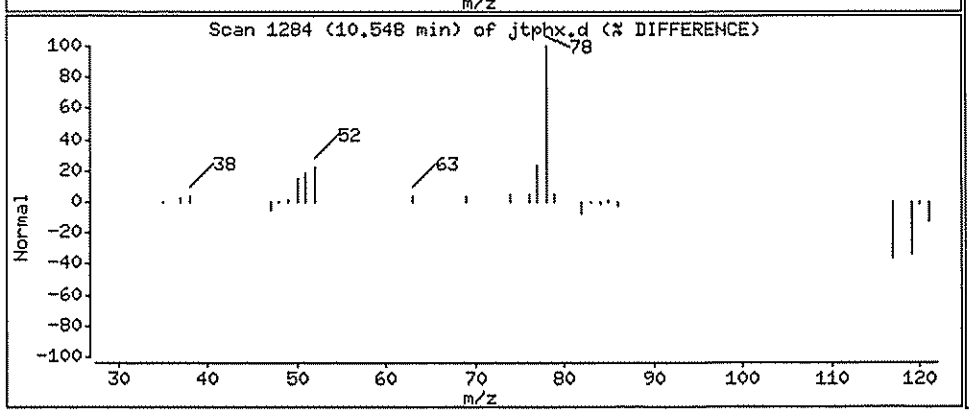
Column phase: Rtx-5 Column diameter: 0.32

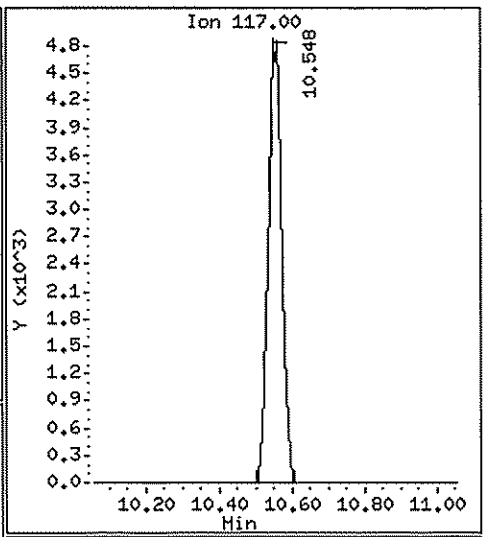
50 Carbon Tetrachloride Concentration: 0.08085 ppb(v/v)

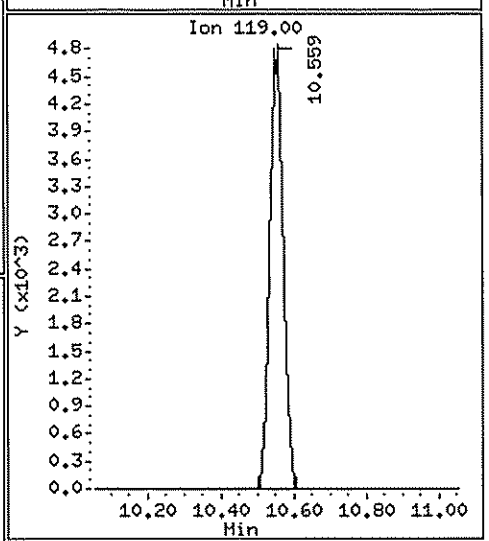


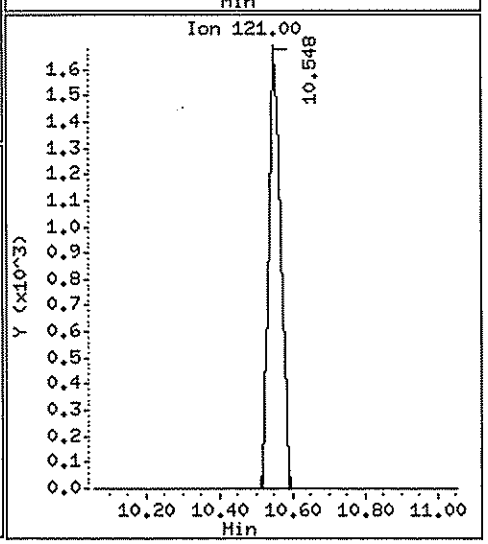












Data File: /var/chem/gcms/mj.i/J041707.b/jtphx.d

Date : 17-APR-2007 19:29

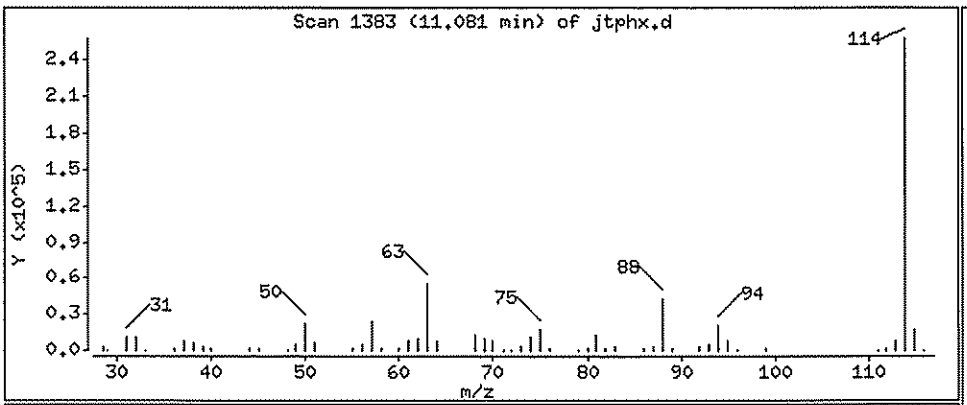
Client ID: SV-12(A.A) Instrument: mj.i

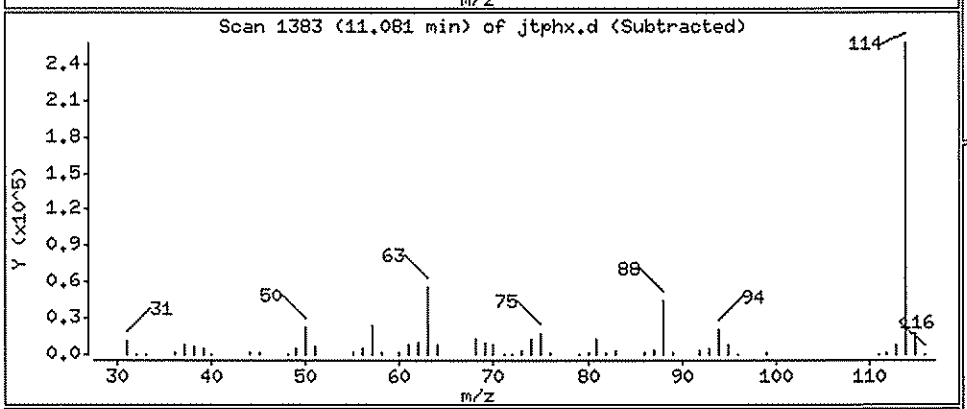
Sample Info: JTPHX1AD,,0,,,

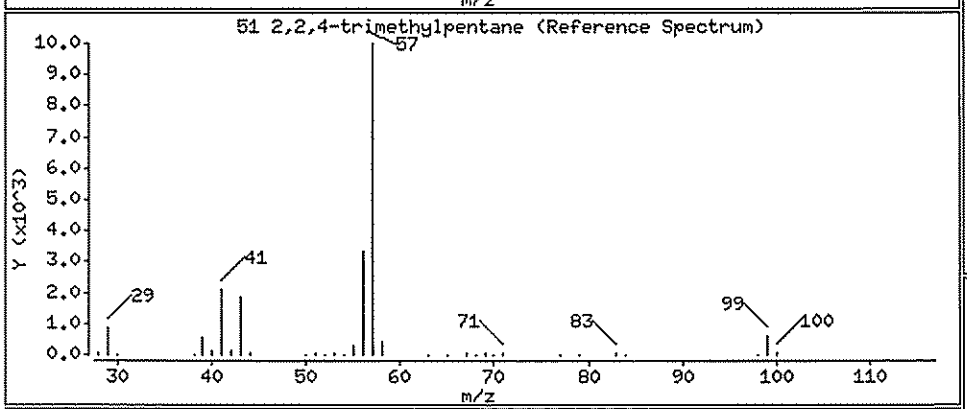
Purge Volume: 500.0 Operator: 7126

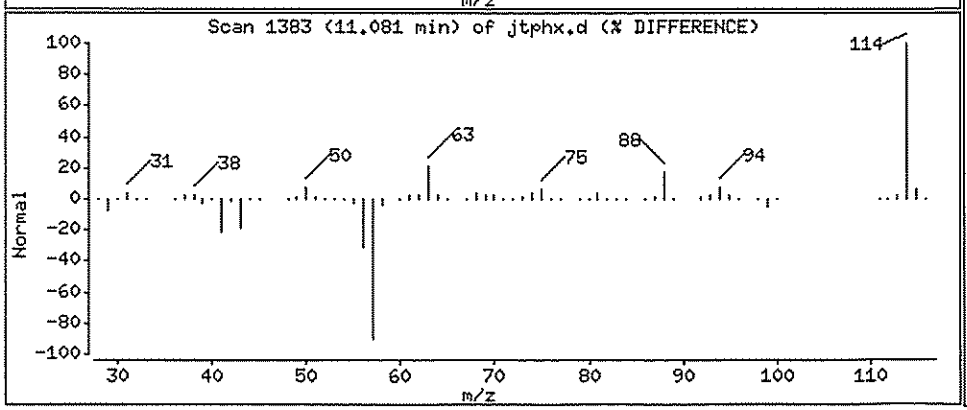
Column phase: Rtx-5 Column diameter: 0.32

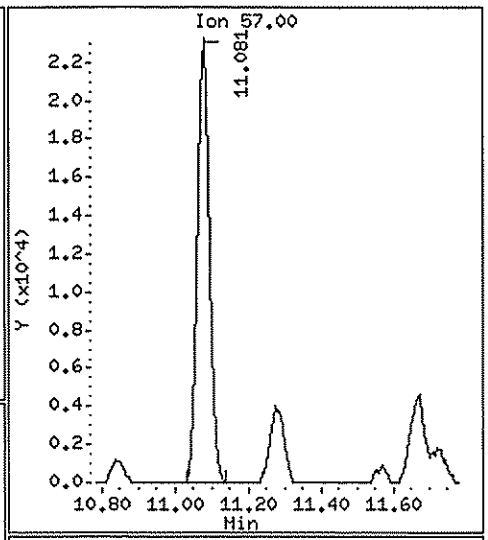
51 2,2,4-trimethylpentane Concentration: 0.2197 ppb(v/v)

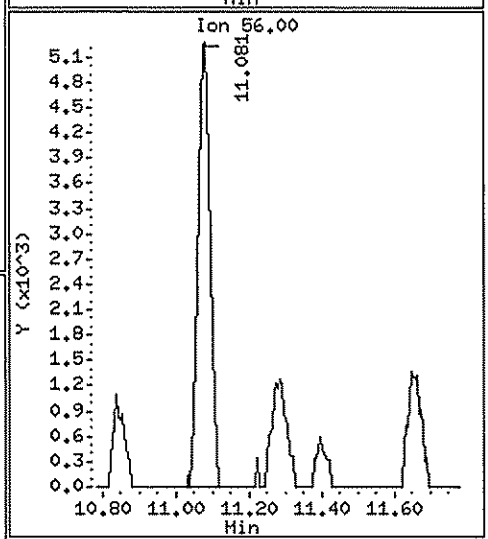


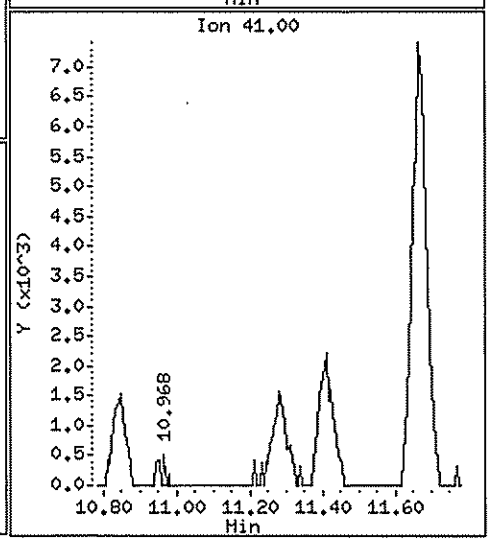












Data File: /var/chem/gcms/mj.i/J041707.b/jtphx.d

Date : 17-APR-2007 19:29

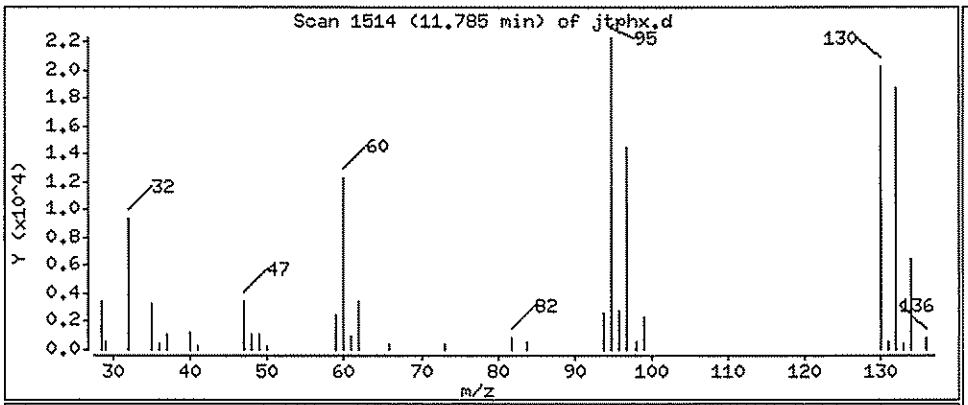
Client ID: SV-12(A,A) Instrument: mj.i

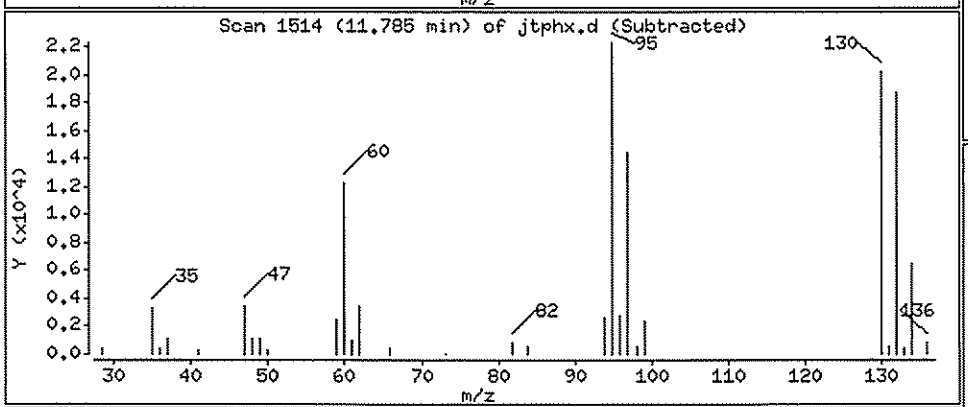
Sample Info: JTPHX1AD,,0,,,

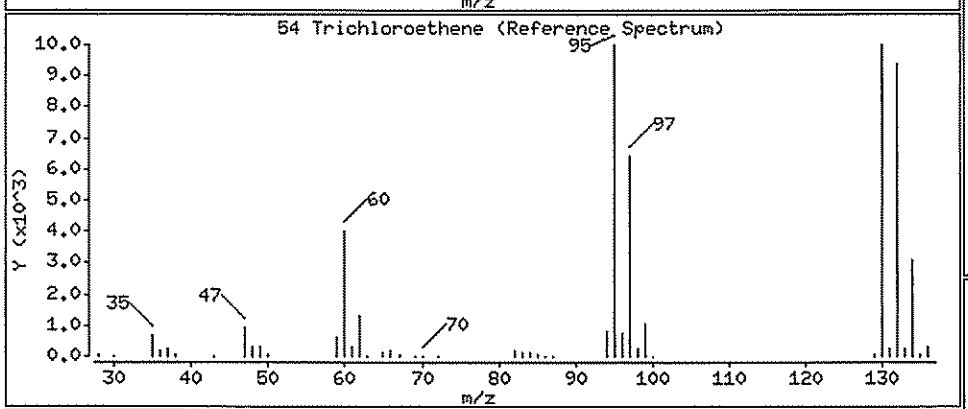
Purge Volume: 500.0 Operator: 7126

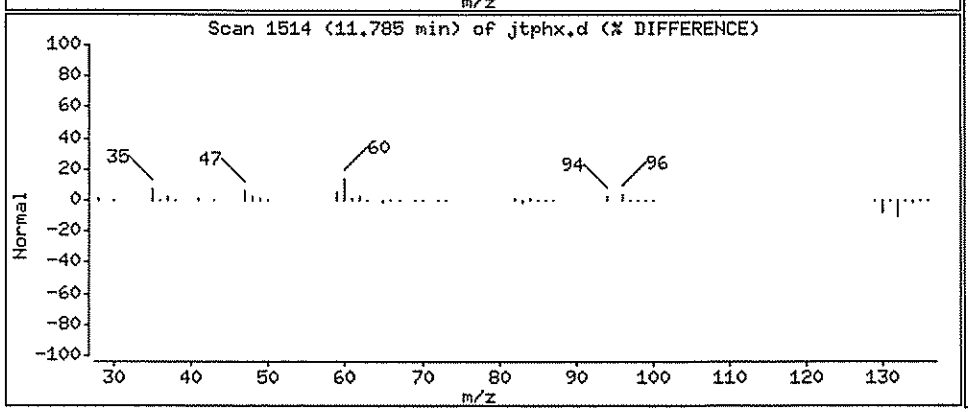
Column phase: Rtx-5 Column diameter: 0.32

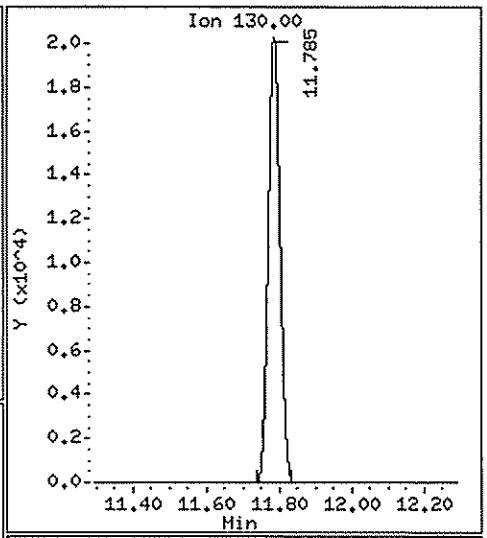
54 Trichloroethene Concentration: 0.5421 ppb(v/v)

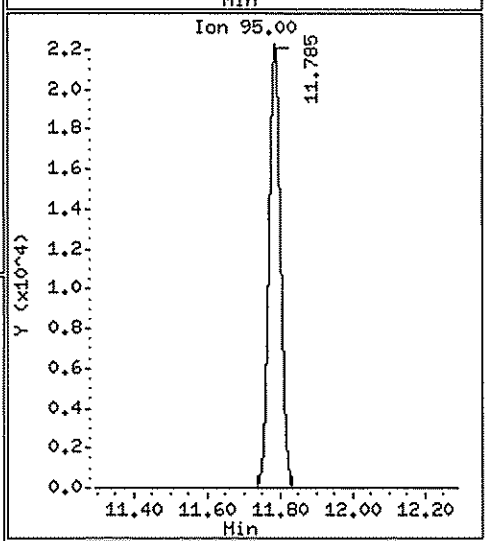


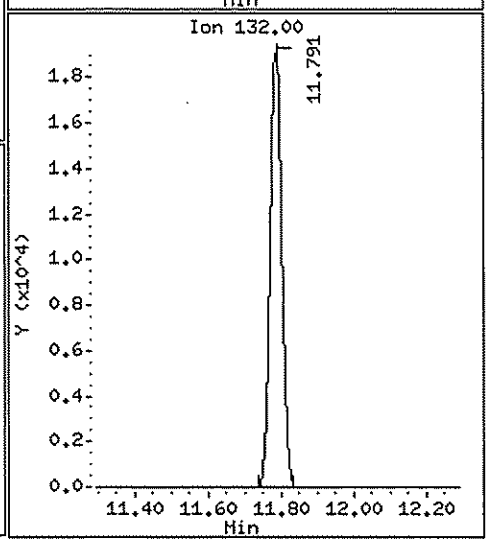












Data File: /var/chem/gcms/mj.i/J041707.b/jtphx.d

Date : 17-APR-2007 19:29

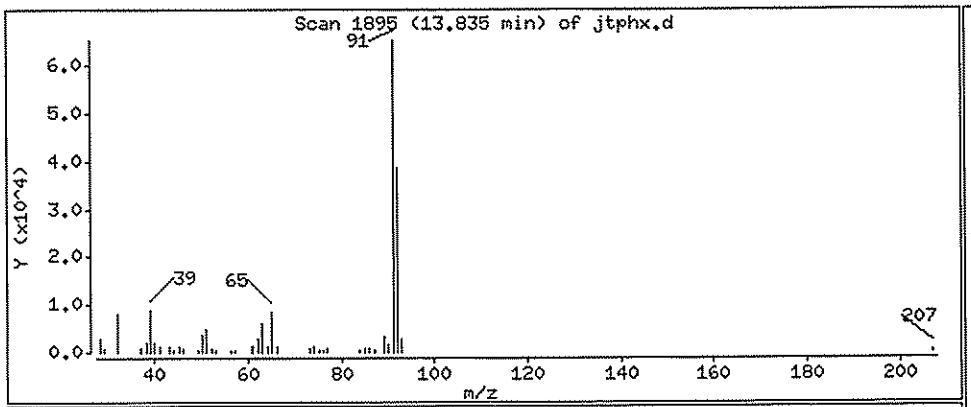
Client ID: SV-12(A.A) Instrument: mj.i

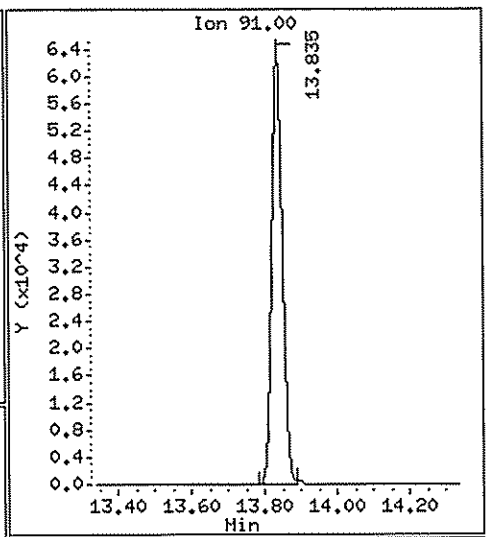
Sample Info: JTPHX1AD,,0,,,

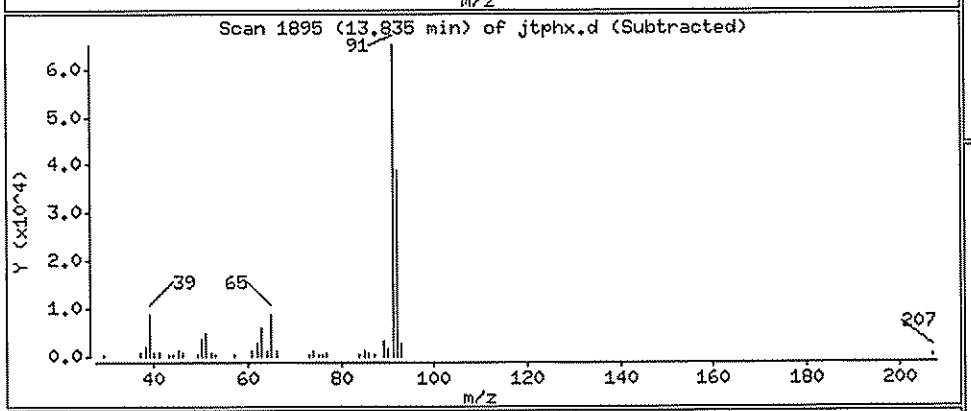
Purge Volume: 500.0 Operator: 7126

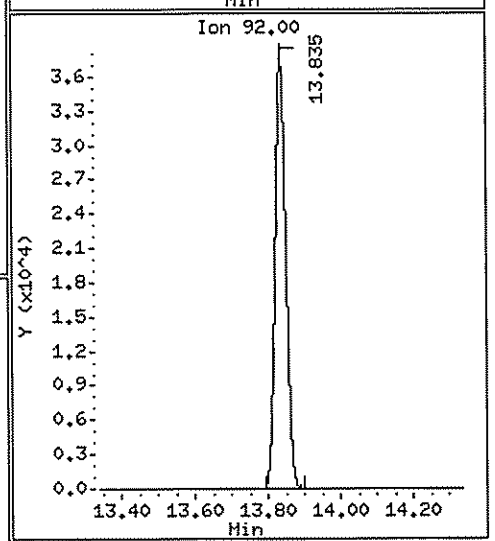
Column phase: Rtx-5 Column diameter: 0.32

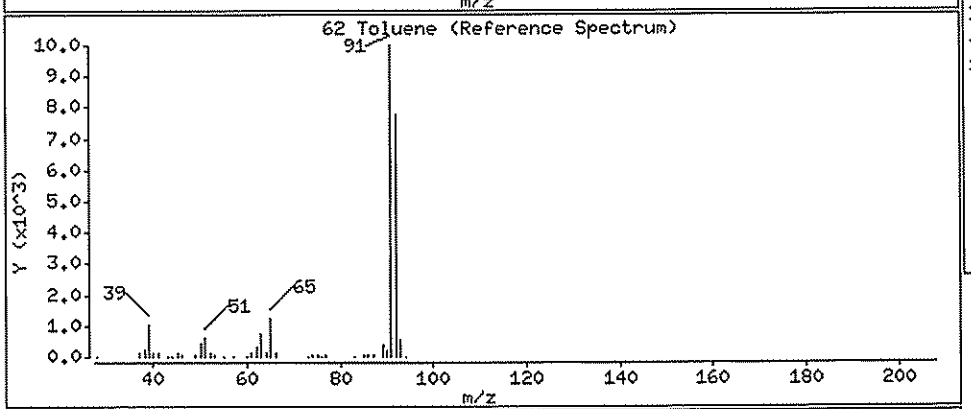
62 Toluene Concentration: 1.069 ppb(v/v)

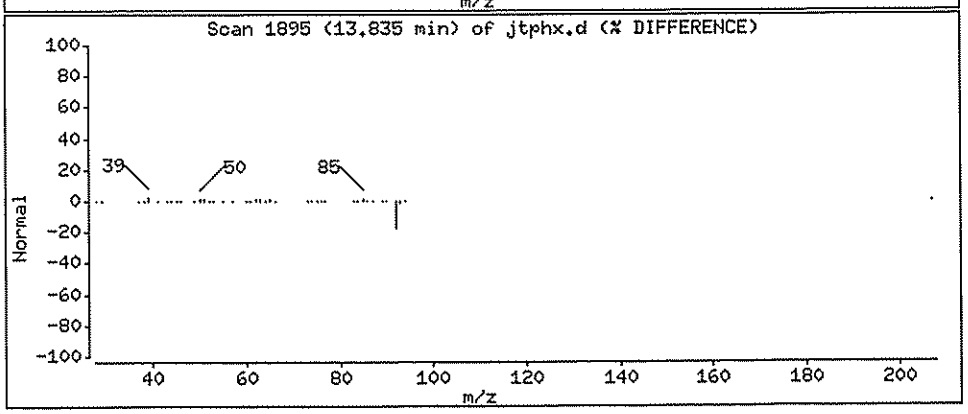












Data File: /var/chem/gcms/mj.i/J041707.b/jtphx.d

Date : 17-APR-2007 19:29

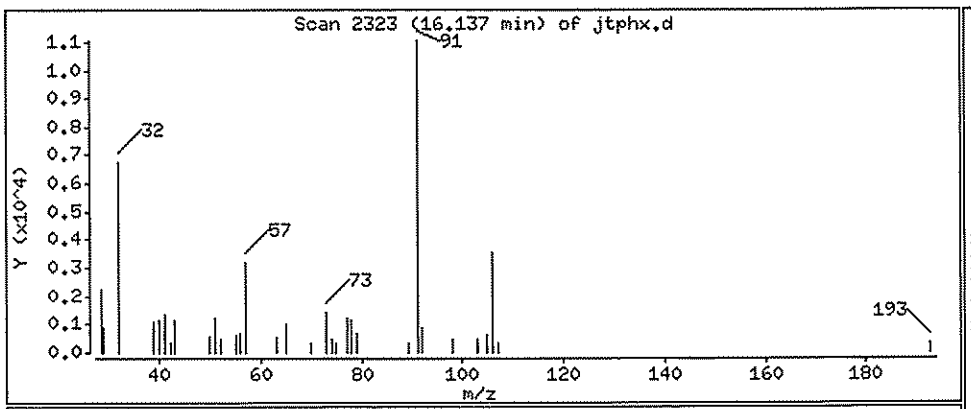
Client ID: SV-12(A.A) Instrument: mj.i

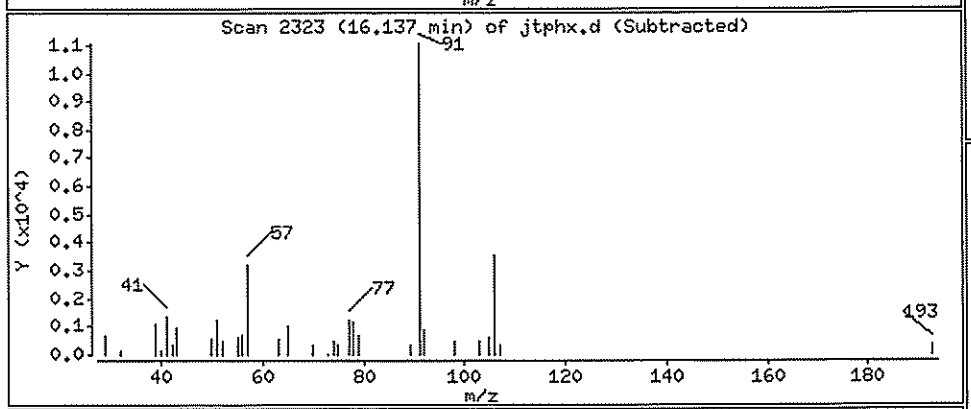
Sample Info: JTPHX1AD,,0,,,

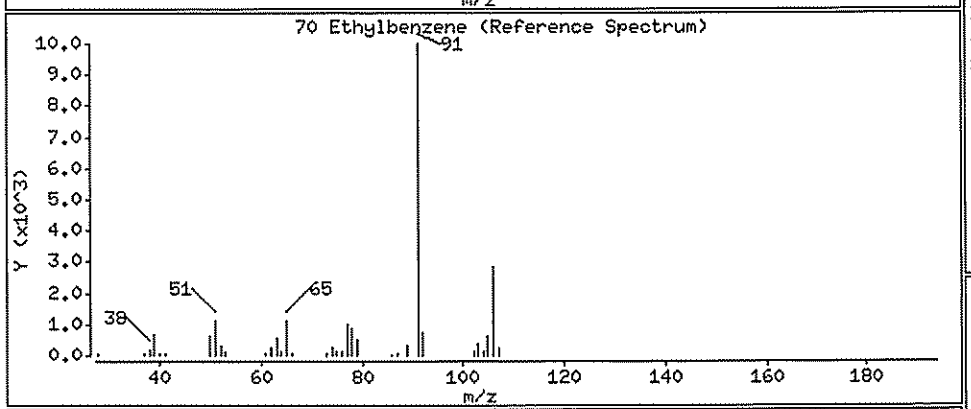
Purge Volume: 500.0 Operator: 7126

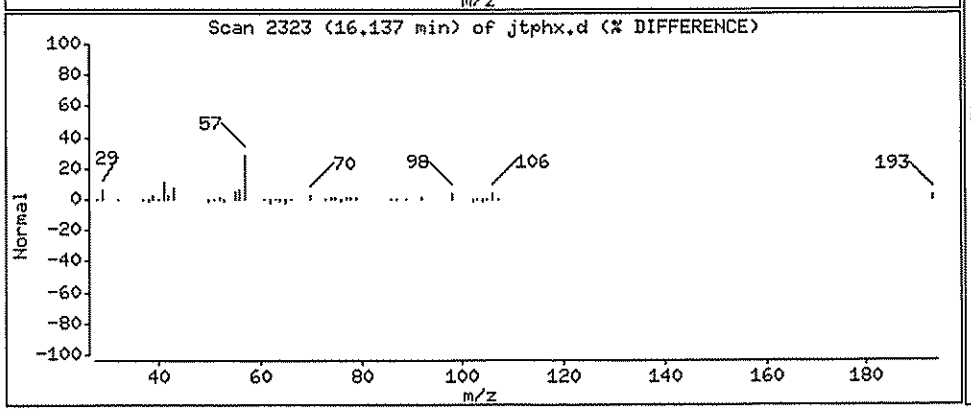
Column phase: Rtx-5 Column diameter: 0.32

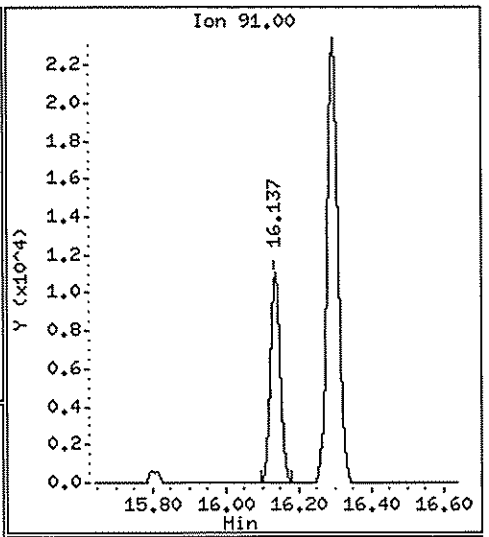
70 Ethylbenzene Concentration: 0.1435 ppb(v/v)

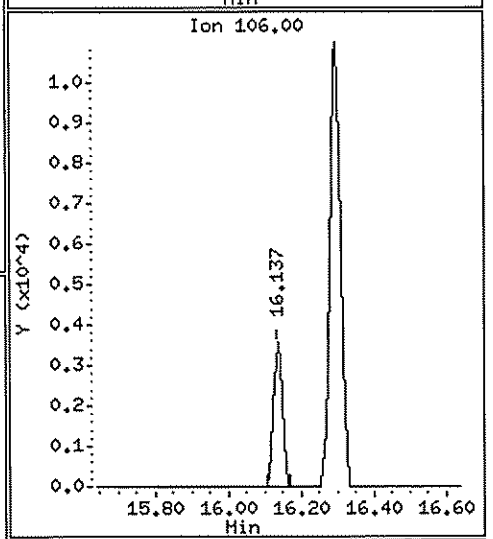


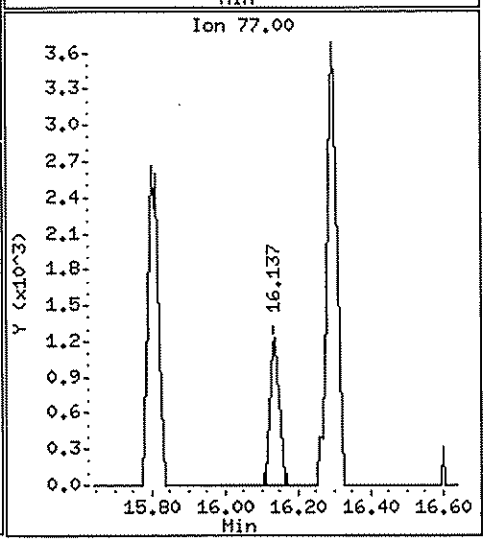












Data File: /var/chem/gcms/mj.i/J041707.b/jtphx.d

Date : 17-APR-2007 19:29

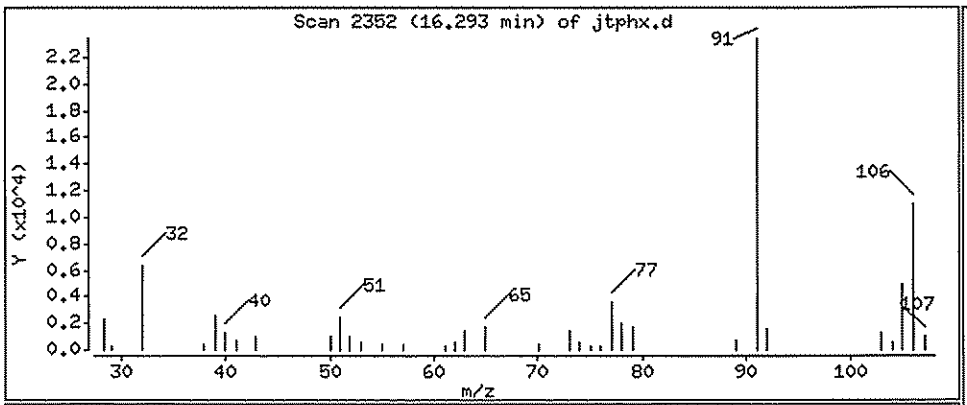
Client ID: SV-12(A,A) Instrument: mj.i

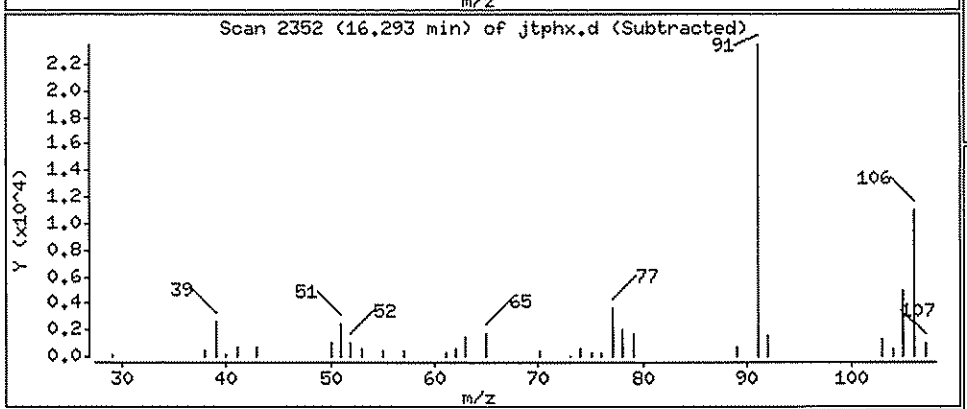
Sample Info: JTPHX1AD,,0,,,

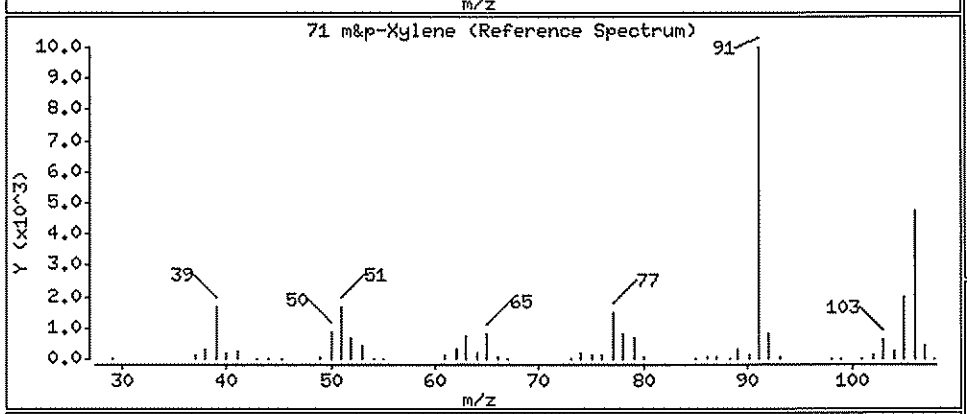
Purge Volume: 500.0 Operator: 7126

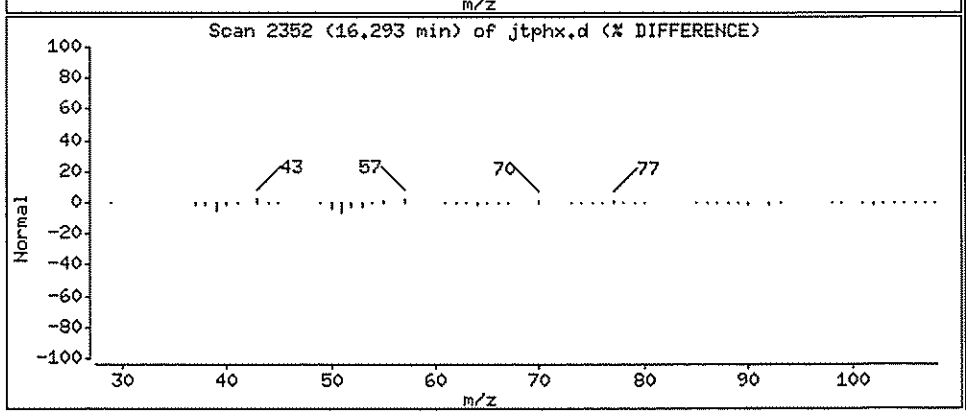
Column phase: Rtx-5 Column diameter: 0.32

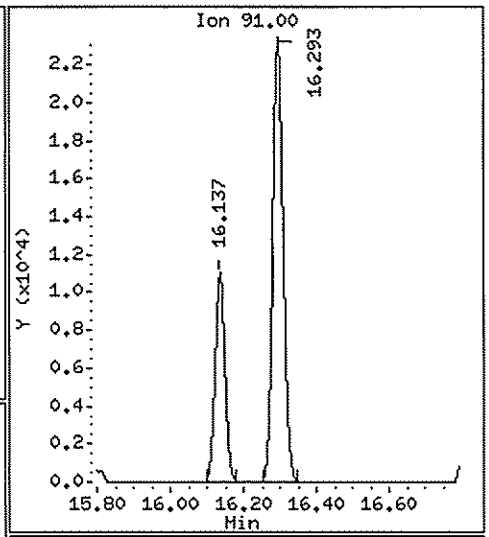
71 m&p-Xylene Concentration: 0.4275 ppb(v/v)

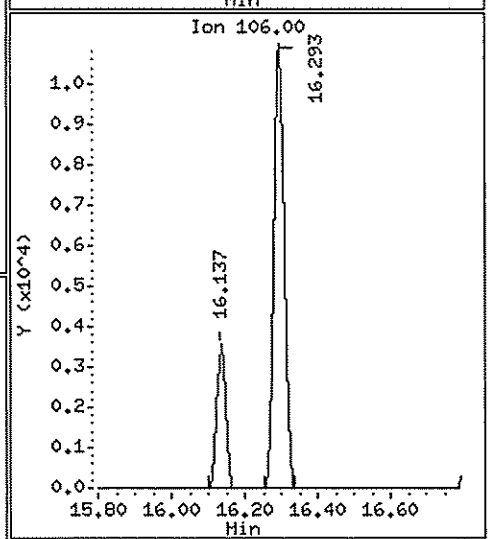


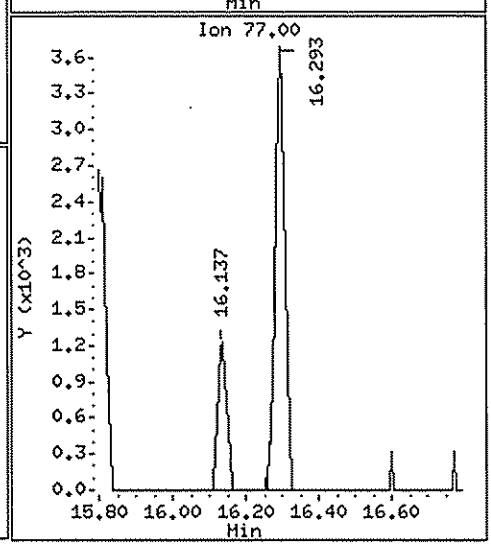












Data File: /var/chem/gcms/mj.i/J041707.b/jtphx.d

Date : 17-APR-2007 19:29

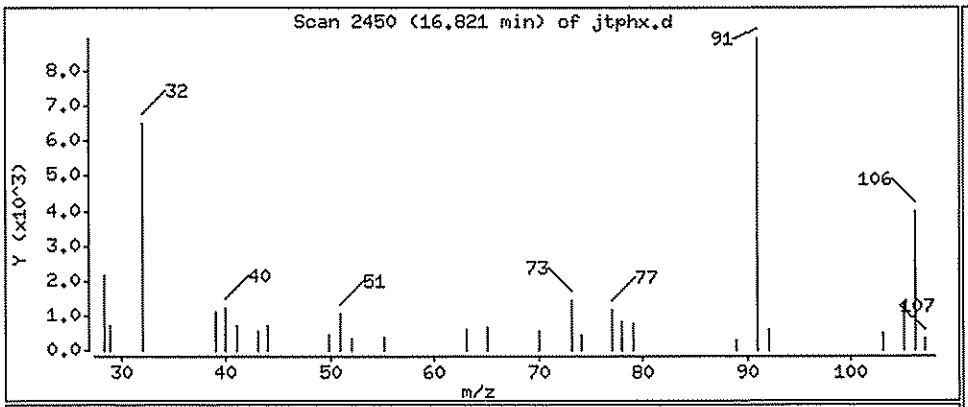
Client ID: SV-12(A,A) Instrument: mj.i

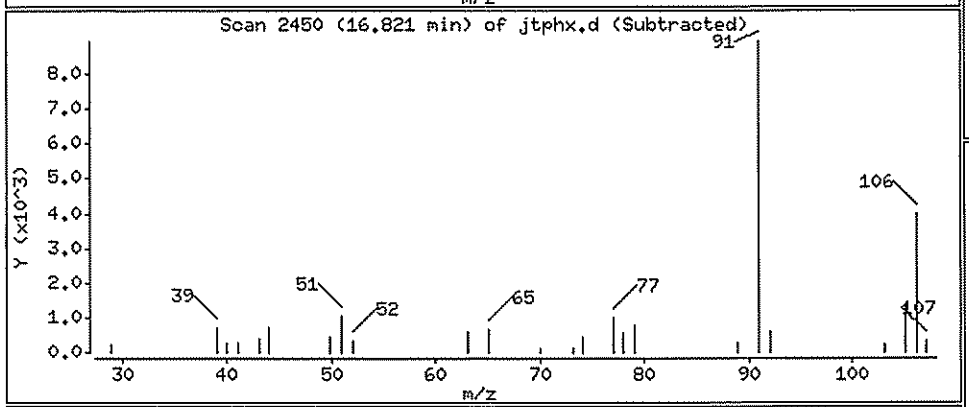
Sample Info: JTPHX1AD,,0,,,

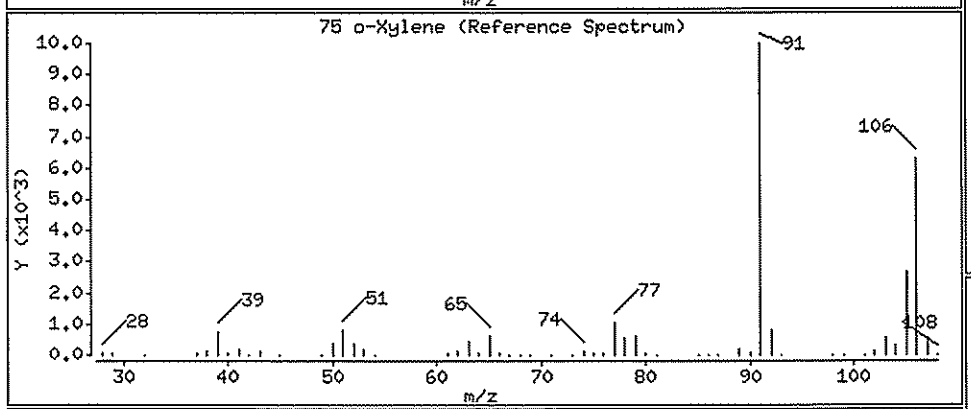
Purge Volume: 500.0 Operator: 7126

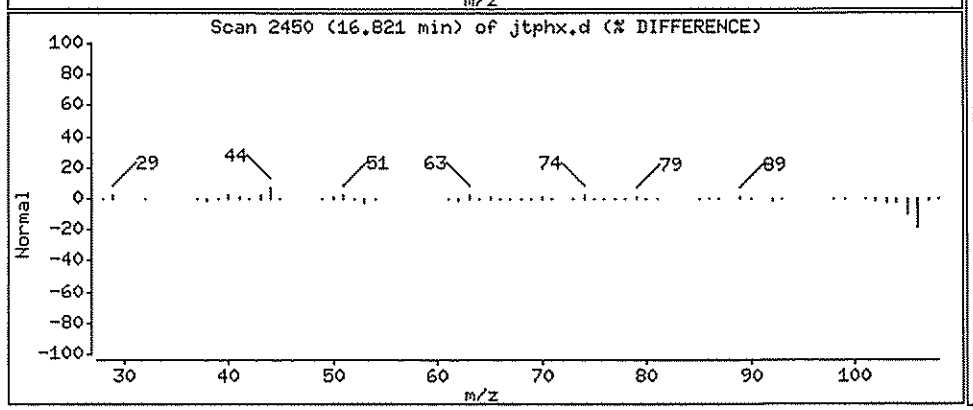
Column phase: Rtx-5 Column diameter: 0.32

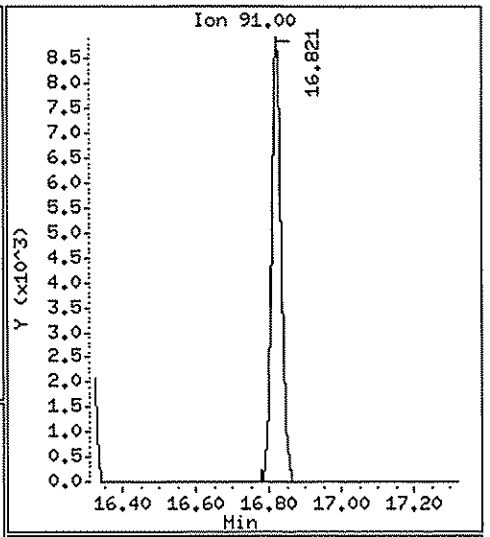
75 o-Xylene Concentration: 0.1370 ppb(v/v)

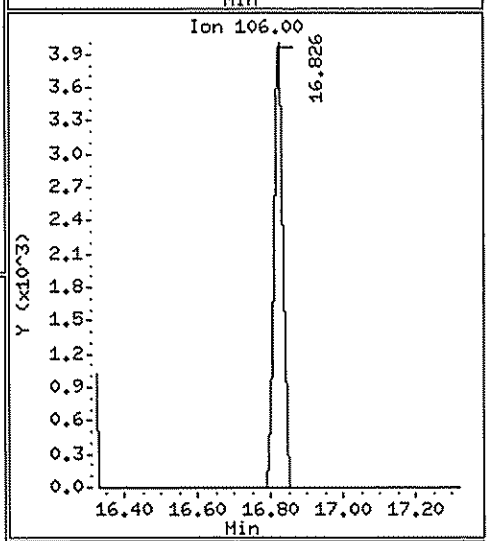


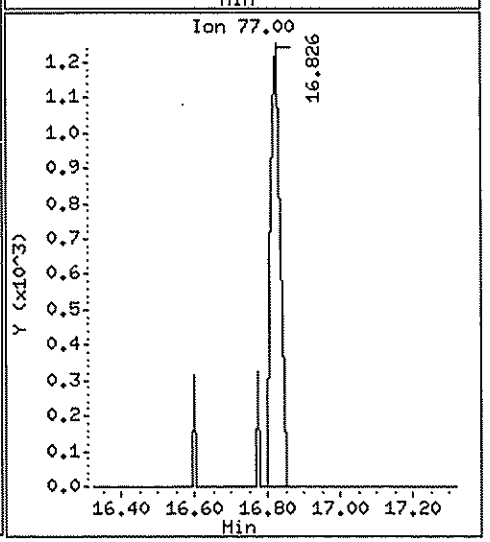












Data File: /var/chem/gcms/mj.i/J041707.b/jtphx.d

Date : 17-APR-2007 19:29

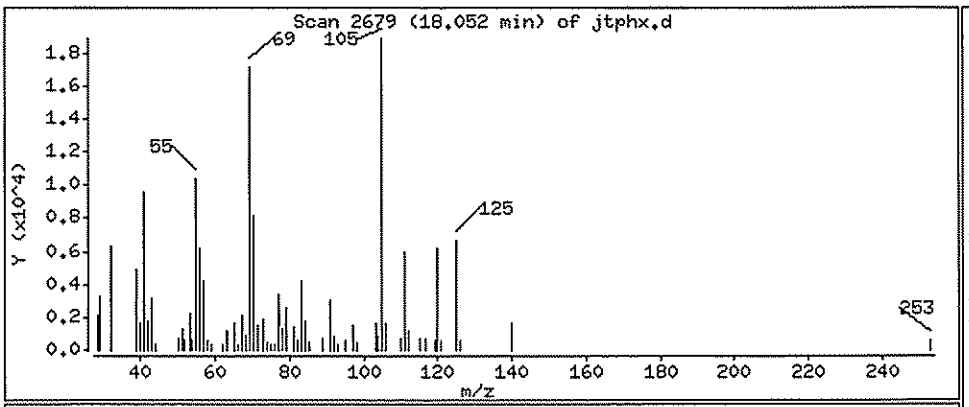
Client ID: SV-12(A.A) Instrument: mj.i

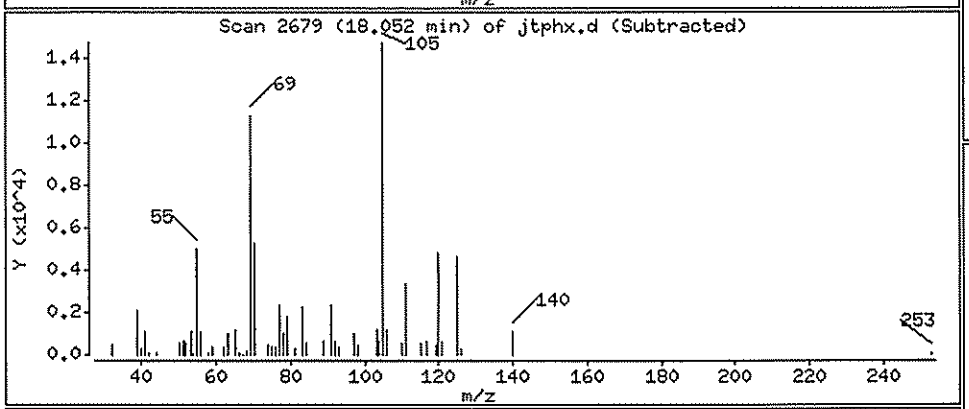
Sample Info: JTPHX1AD,,0,,,

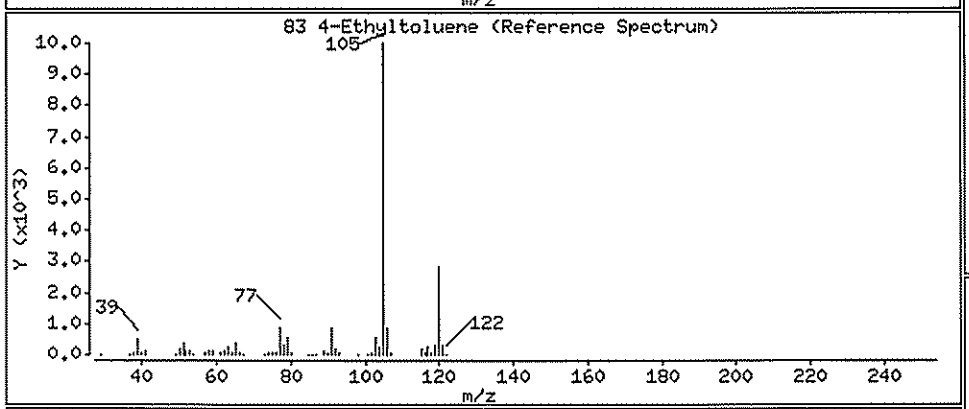
Purge Volume: 500.0 Operator: 7126

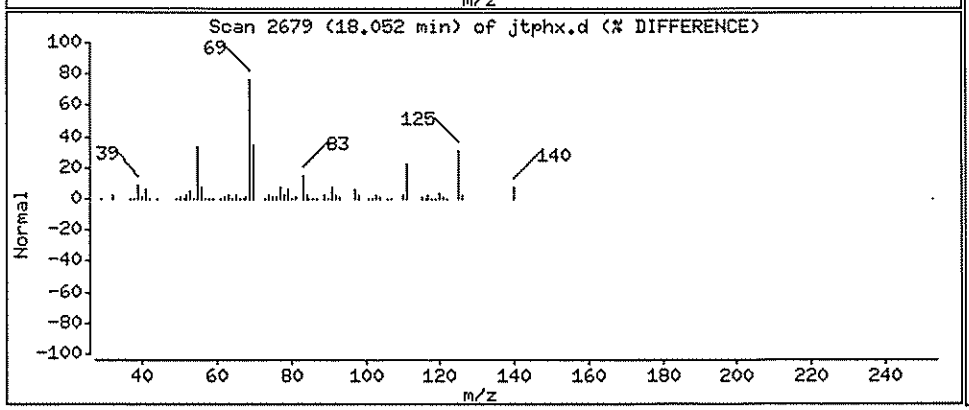
Column phase: Rtx-5 Column diameter: 0.32

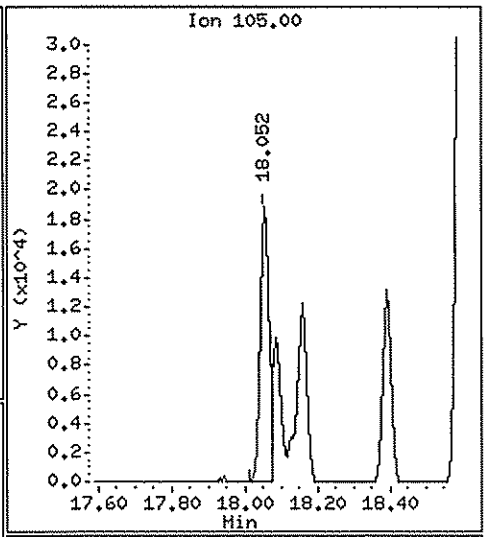
83 4-Ethyltoluene Concentration: 0.2085 ppb(v/v)

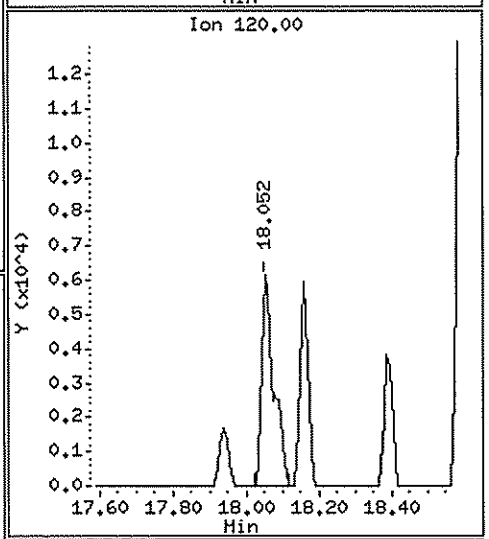


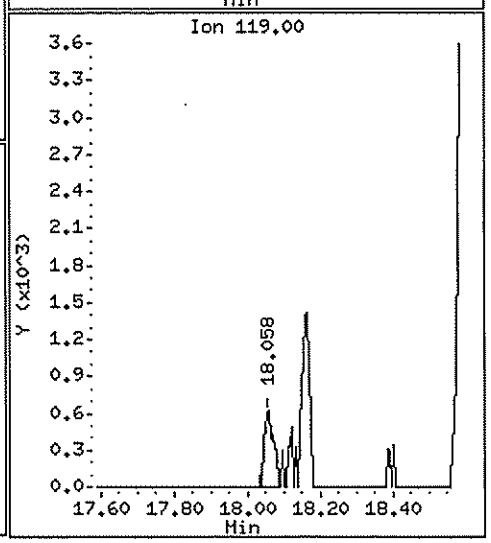












Data File: /var/chem/gcms/mj.i/J041707.b/jtphx.d

Date : 17-APR-2007 19:29

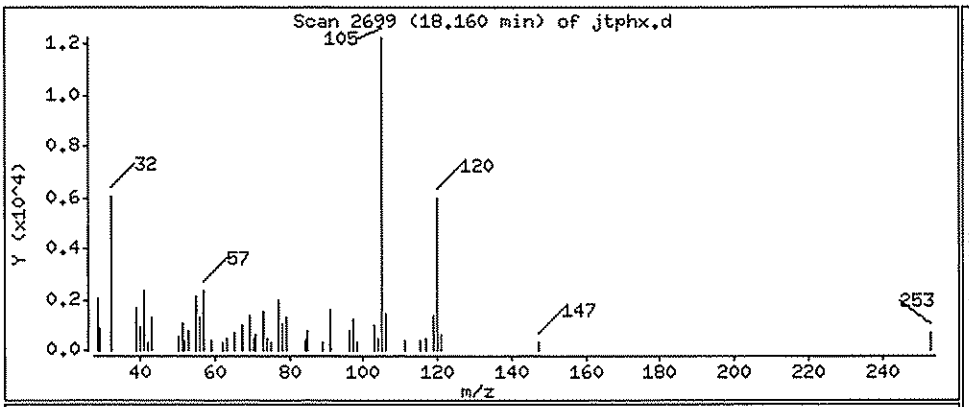
Client ID: SV-12(A.A) Instrument: mj.i

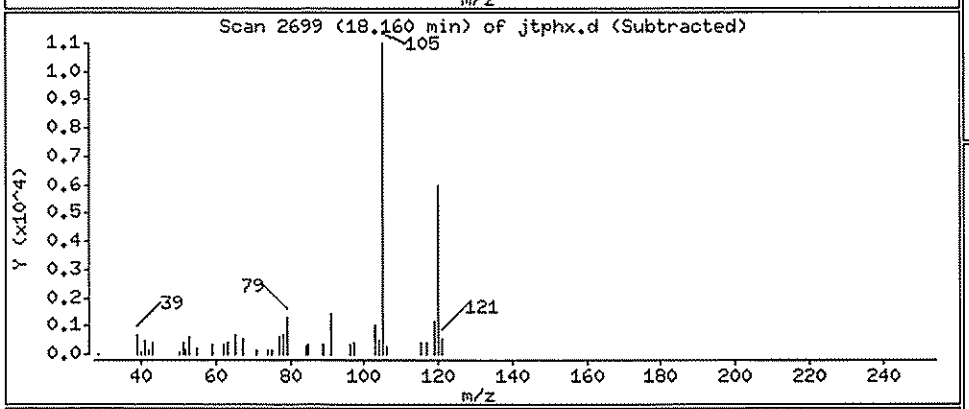
Sample Info: JTPHX1AD,,0,,,

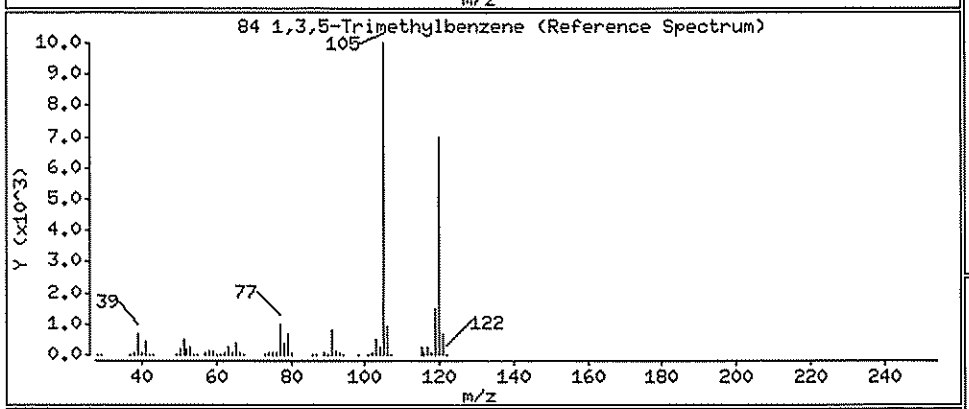
Purge Volume: 500.0 Operator: 7126

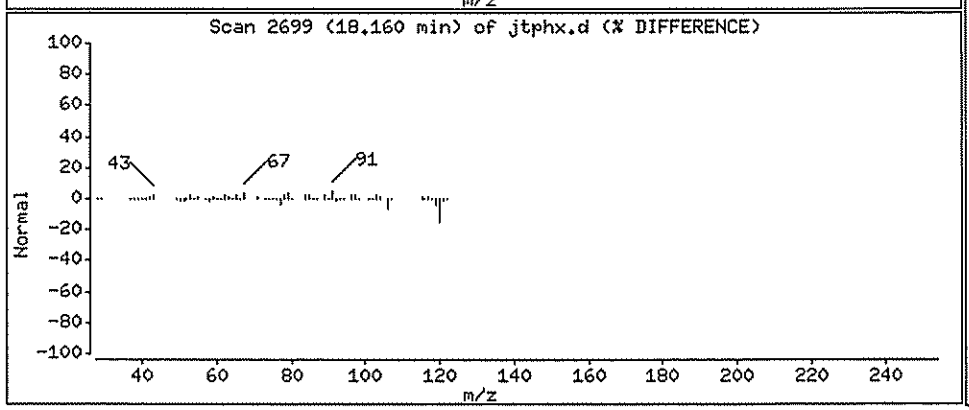
Column phase: Rtx-5 Column diameter: 0.32

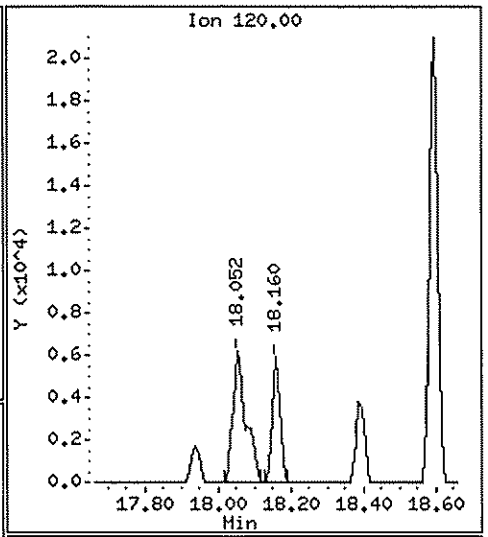
84 1,3,5-Trimethylbenzene Concentration: 0.1586 ppb(v/v)

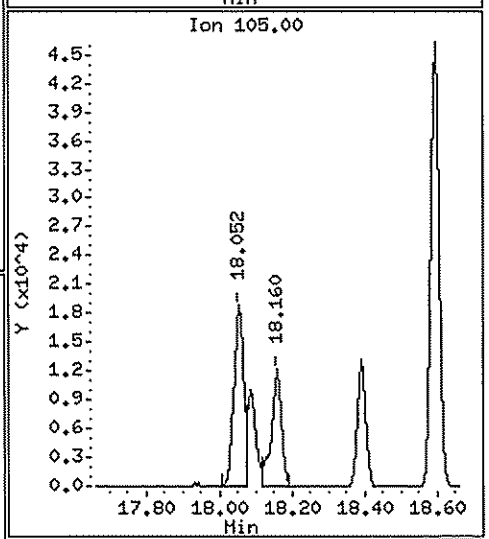


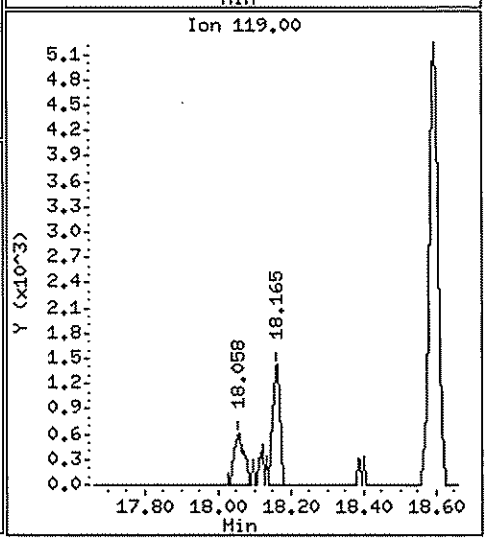












AKRF-White Plains

Client Sample ID: DUP(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 006 **Work Order #** JTPH11AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/17/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7108057
Dilution Factor.: 10 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.80	ND	3.6
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.80	ND	5.6
Ethylbenzene	**1.4**	**0.80**	**6.1**	**3.5**
Trichlorofluoromethane	ND	0.80	ND	4.5
n-Heptane	**6.7**	**2.0**	**27**	**8.2**
n-Hexane	**24**	**2.0**	**86**	**7.0**
2,2,4-Trimethylpentane	ND	2.0	ND	9.3
Benzene	ND	0.80	ND	2.6
1,1,2,2-Tetrachloroethane	ND	0.80	ND	5.5
Tetrachloroethene	**0.81**	**0.80**	**5.5**	**5.4**
Toluene	**120**	**0.80**	**450**	**3.0**
1,1,1-Trichloroethane	ND	0.80	ND	4.4
1,1,2-Trichloroethane	ND	0.80	ND	4.4
Trichloroethene	**0.72**	**0.40**	**3.9**	**2.1**
1,3,5-Trimethylbenzene	ND	0.80	ND	3.9
Vinyl chloride	ND	0.80	ND	2.0
o-Xylene	**1.4**	**0.80**	**6.1**	**3.5**
Methyl tert-butyl ether	ND	4.0	ND	14
m-Xylene & p-Xylene	**3.3**	**0.80**	**14**	**3.5**
Bromodichloromethane	ND	0.80	ND	5.4
1,2-Dibromoethane (EDB)	ND	0.80	ND	6.1
Vinyl bromide	ND	0.80	ND	3.5
Bromoform	ND	0.80	ND	8.3
Bromomethane	ND	0.80	ND	3.1
1,3-Butadiene	ND	1.6	ND	3.5
4-Ethyltoluene	ND	1.6	ND	7.9
Carbon tetrachloride	ND	0.40	ND	2.5
Dibromochloromethane	ND	0.80	ND	6.8
Chloroethane	ND	0.80	ND	2.1
Chloroform	ND	0.80	ND	3.9
3-Chloropropene	ND	0.80	ND	2.5
Cyclohexane	**25**	**2.0**	**87**	**6.9**
Dichlorodifluoromethane	ND	0.80	ND	4.0
1,1-Dichloroethane	ND	0.80	ND	3.2
1,2-Dichloroethane	ND	0.80	ND	3.2
1,1-Dichloroethene	ND	0.80	ND	3.2
cis-1,2-Dichloroethene	ND	0.80	ND	3.2
trans-1,2-Dichloroethene	ND	0.80	ND	3.2
1,2-Dichloropropane	ND	0.80	ND	3.7

TO-14 _rev5.rpt version 5.0.103 10/12/2006

AKRF-White Plains

Client Sample ID: DUP(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 006 **Work Order #** JTPH11AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.80	ND	3.6

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	99	70 - 130
Toluene-d8	106	70 - 130
4-Bromofluorobenzene	100	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TO-14 _rev5.rpt version 5.0.103 10/12/2006

Data File: /var/chem/gcms/mj.i/J041707.b/jtph1.d
Report Date: 18-Apr-2007 12:00

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041707.b/jtph1.d
Lab Smp Id: JTPH11AD Client Smp ID: DUP(S.S)
Inj Date : 17-APR-2007 20:05
Operator : 7126 Inst ID: mj.i
Smp Info : JTPH11AD,10,0,,,
Misc Info : J041707,TO15,mabna.sub,,,50 ML
Comment :
Method : /var/chem/gcms/mj.i/J041707.b/TO15.m
Meth Date : 18-Apr-2007 11:59 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 18
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: magna.sub
Target Version: 3.50

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

Name	Value	Description
DF	10.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.895	8.894	(1.000)	189458	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.085	11.089	(1.000)	842370	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.803	15.806	(1.000)	752993	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.901	9.911	(0.893)	212018	3.95542	3.955
$ 5 Toluene-d8	98	13.721	13.725	(0.868)	779500	4.25396	4.254
$ 6 4-Bromofluorobenzene	95	17.438	17.442	(1.103)	609304	4.01008	4.010
32 3-Chloropropene	39	6.238	6.344	(0.701)	5769	0.08538	~~0.0838~~
39 Hexane	56	8.132	8.135	(0.914)	119015	2.44667	24.47
47 Cyclohexane	69	10.531	10.529	(0.950)	91396	2.51732	25.17
51 2,2,4-trimethylpentane	57	11.079	11.282	(1.000)	75355	0.22508	~~2.251~~
52 Heptane	43	11.655	11.654	(1.051)	79914	0.66605	6.660
54 Trichloroethene	130	11.790	11.793	(1.064)	8577	0.07220	0.7220
61 trans-1,3-Dichloropropene	75	13.834	13.725	(0.875)	19534	0.17065	~~1.706~~
62 Toluene	91	13.839	13.838	(0.876)	2323605	11.8529	118.5
63 1,1,2-Trichloroethane	97	14.108	13.929	(0.893)	45146	0.63735	~~6.373~~
68 Tetrachloroethene	129	14.980	14.978	(0.948)	7455	0.08072	0.8072

WM 4-19-07

Data File: /var/chem/gcms/mj.i/J041707.b/jtph1.d
Report Date: 18-Apr-2007 12:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
70 Ethylbenzene	91	16.136	16.140	(1.021)	32413	0.13963	1.396
71 m&p-Xylene	91	16.292	16.296	(1.031)	58543	0.32595	3.259
75 o-Xylene	91	16.819	16.823	(1.064)	27417	0.14043	1.404

Data File: /var/chem/gcms/mj.i/J041707.b/jtph1.d
Report Date: 18-Apr-2007 12:00

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jtph1.d
Lab Smp Id: JTPH11AD
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J041707.b/TO15.m
Misc Info: J041707,TO15,mabna.sub,,,50 ML

Calibration Date: 17-APR-2007
Calibration Time: 10:04
Client Smp ID: DUP(S.S)
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	174498	103826	245170	189458	8.57
2 1,4-Difluorobenze	650922	387299	914545	842370	29.41
3 Chlorobenzene-d5	597966	355790	840142	752993	25.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.89	8.56	9.22	8.90	0.02
2 1,4-Difluorobenze	11.09	10.76	11.42	11.08	-0.03
3 Chlorobenzene-d5	15.81	15.48	16.14	15.80	-0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J041707.b/jtph1.d
Report Date: 18-Apr-2007 12:00

STL Knoxville

RECOVERY REPORT

Client Name: AKRF-White Plains
Sample Matrix: GAS
Lab Smp Id: JTPH11AD
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: magna.sub
Method File: /var/chem/gcms/mj.i/J041707.b/TO15.m
Misc Info: J041707,TO15,mabna.sub,,,50 ML

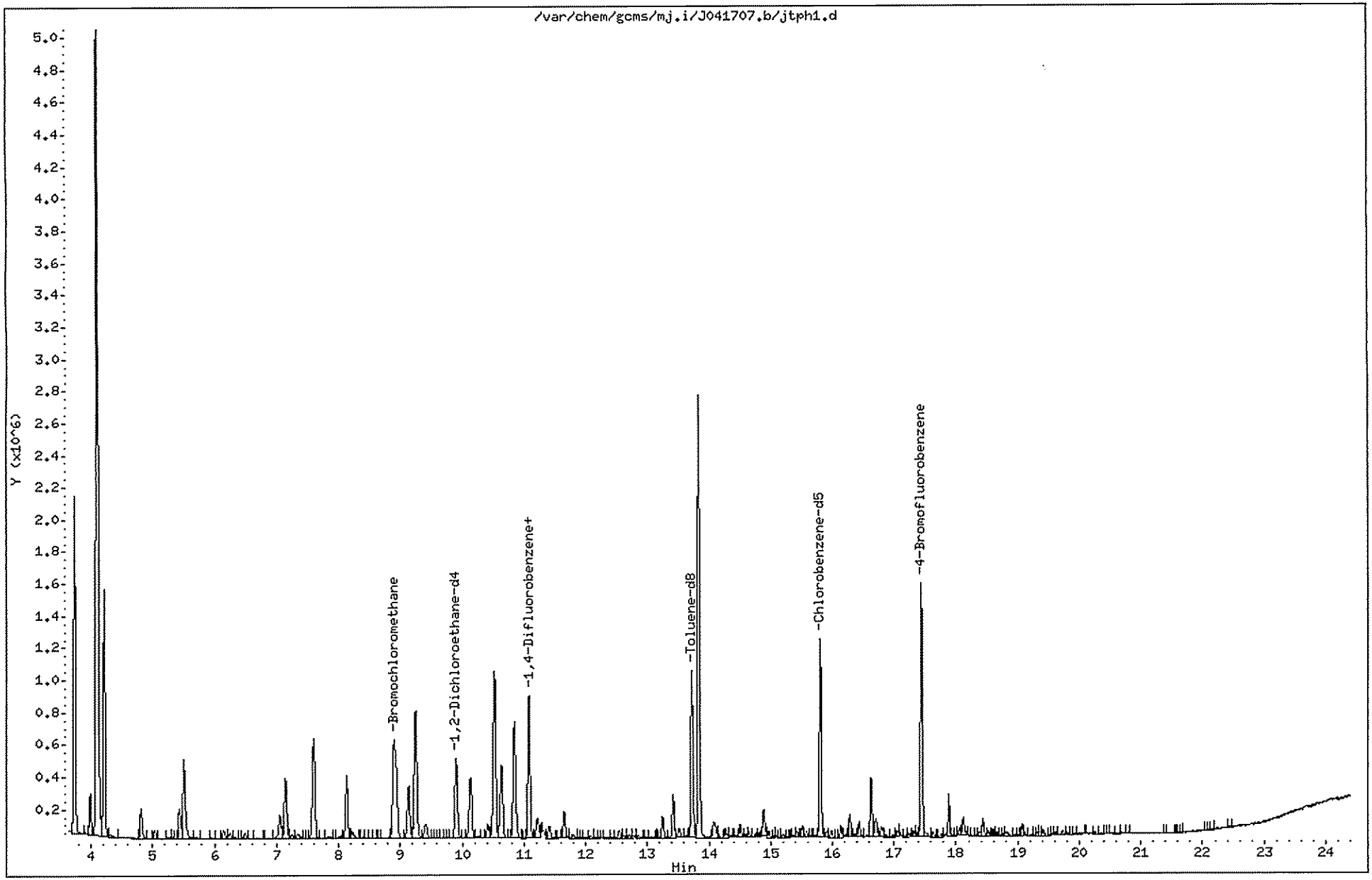
Client SDG: H7D110232
Fraction: OTHER
Client Smp ID: DUP(S.S)
Operator: 7126
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	4.000	3.955	98.89	70-130
$ 5 Toluene-d8	4.000	4.254	106.35	70-130
$ 6 4-Bromofluorobenze	4.000	4.010	100.25	70-130

Data File: /var/chem/gcms/mj.i/J041707.b/jtph1.d
Date : 17-APR-2007 20:05
Client ID: DUP(S.S)
Sample Info: JTPH11AD,10,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J041707.b/jtph1.d

Date : 17-APR-2007 20:05

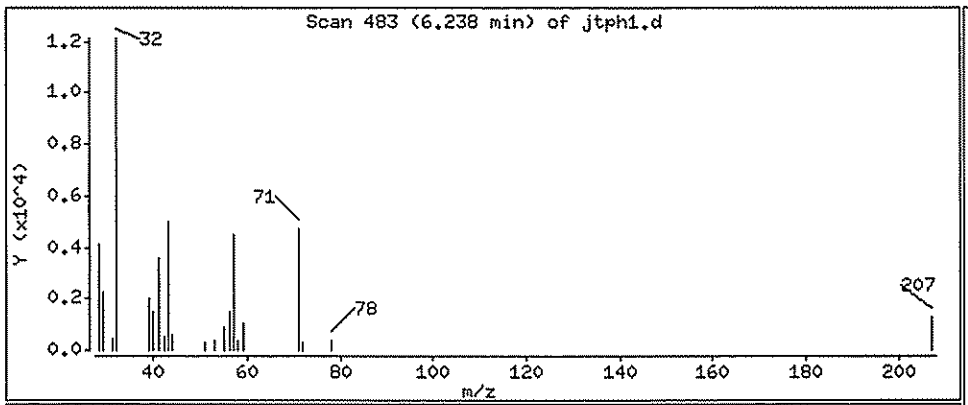
Client ID: DUP(S.S) Instrument: mj.i

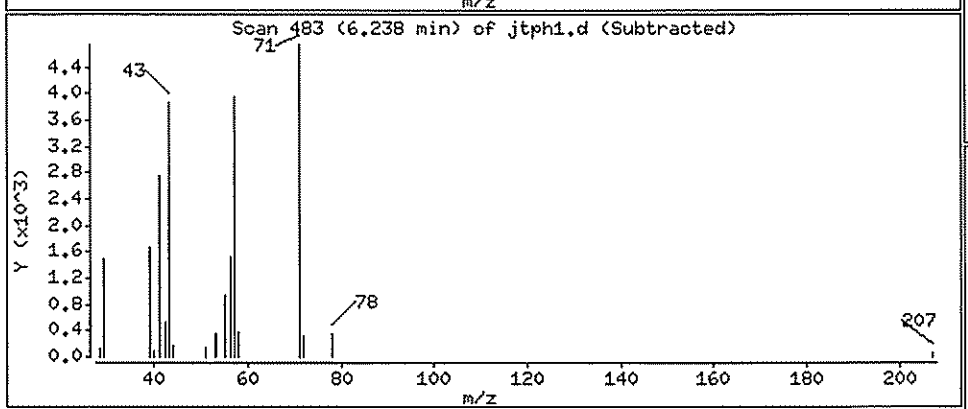
Sample Info: JTPH11AD,10,0,,,

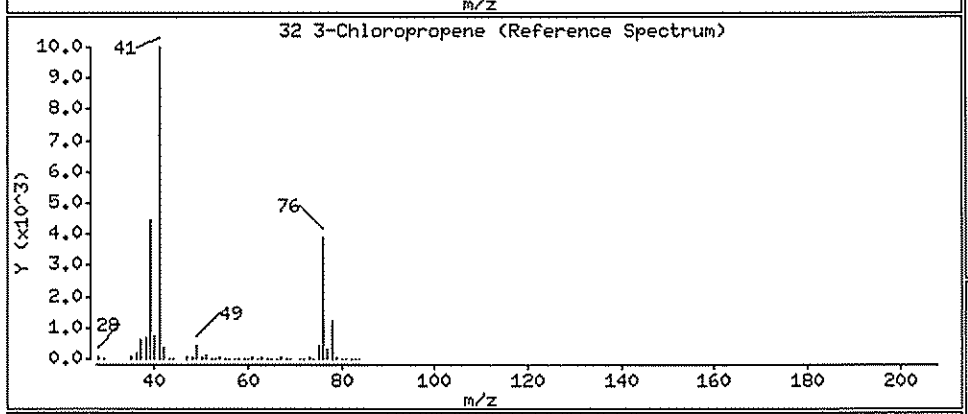
Purge Volume: 500.0 Operator: 7126

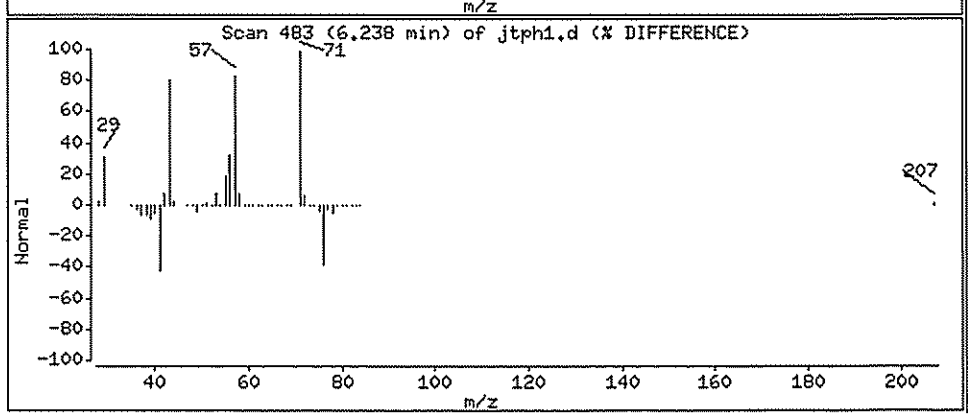
Column phase: Rtx-5 Column diameter: 0.32

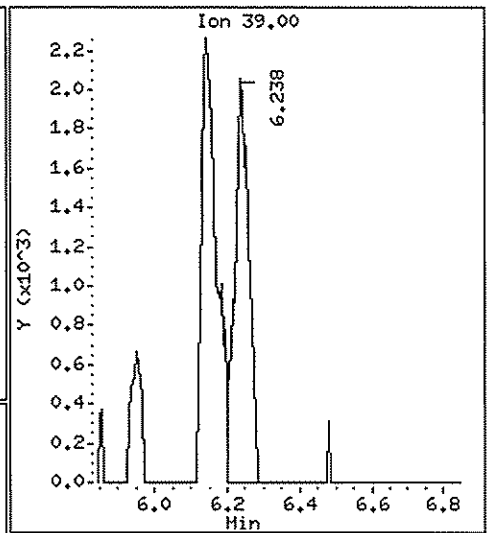
32 3-Chloropropene Concentration: 0.8538 ppb(v/v)

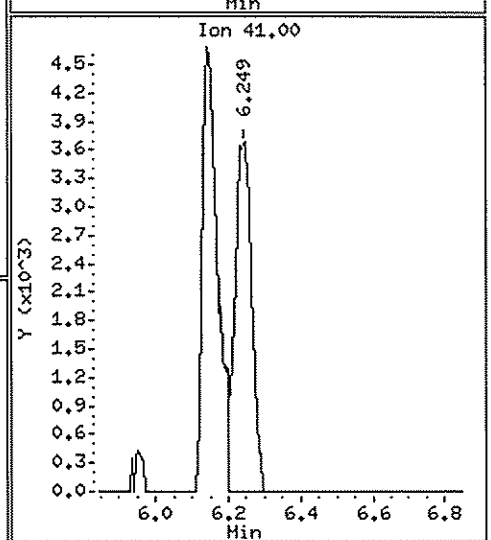


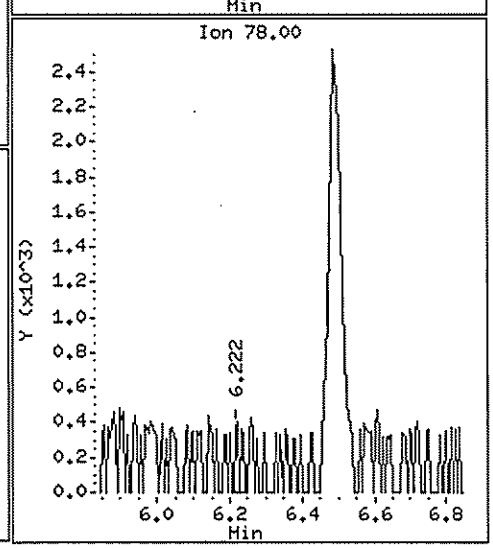












Data File: /var/chem/gcms/mj.i/J041707.b/jtph1.d

Date : 17-APR-2007 20:05

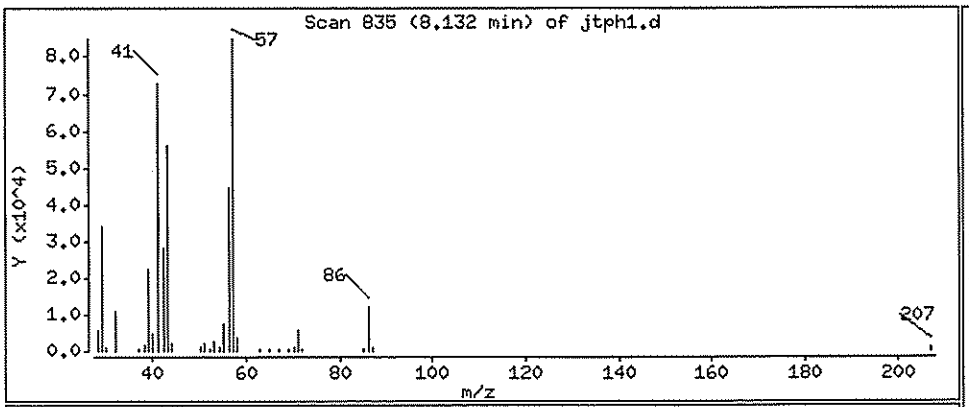
Client ID: DUP(S.S) Instrument: mj.i

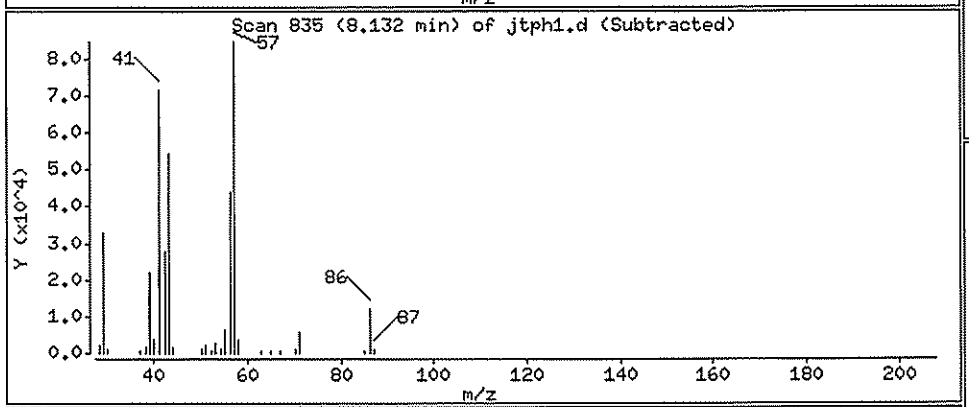
Sample Info: JTPH11AD,10,0,,,

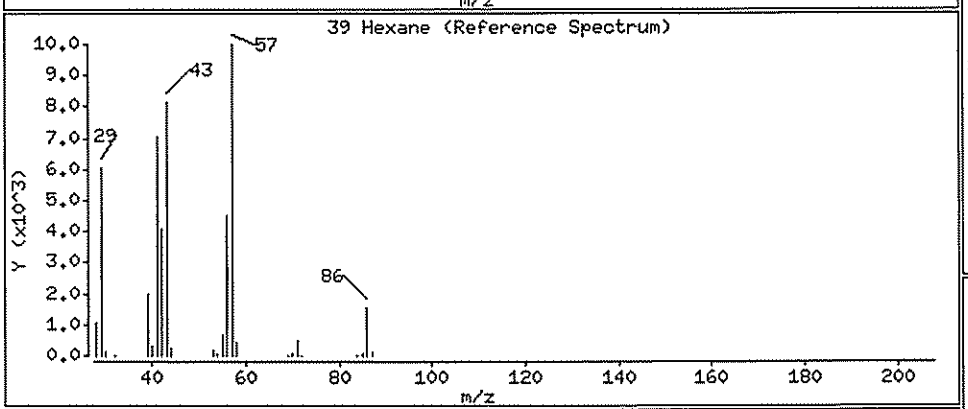
Purge Volume: 500.0 Operator: 7126

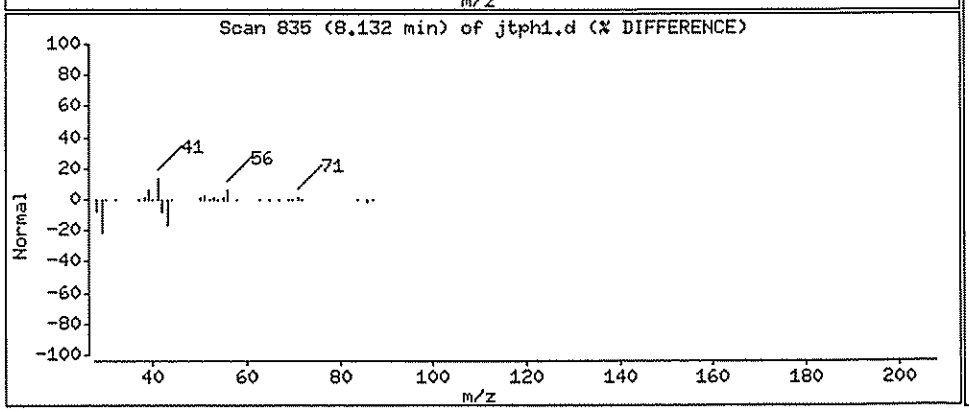
Column phase: Rtx-5 Column diameter: 0.32

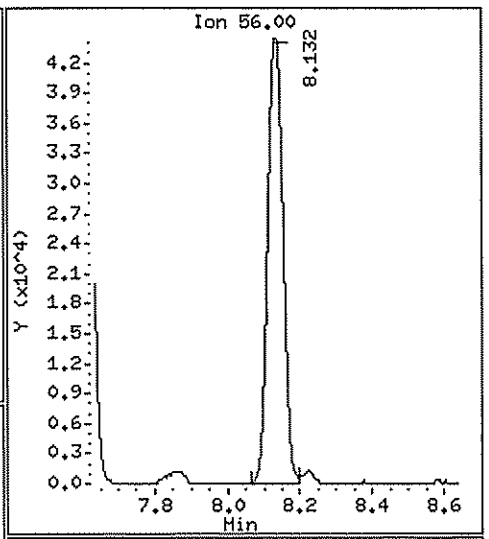
39 Hexane Concentration: 24.47 ppb(v/v)

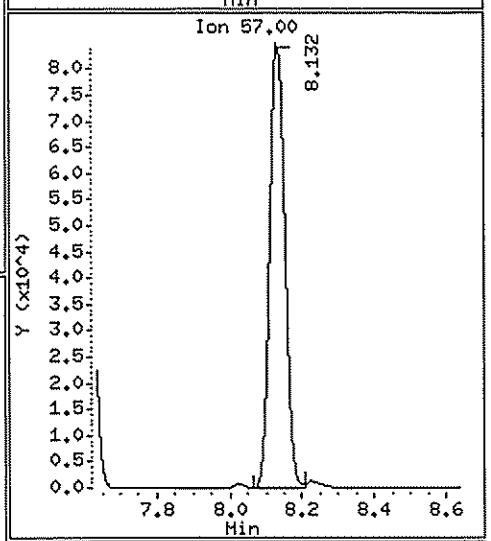


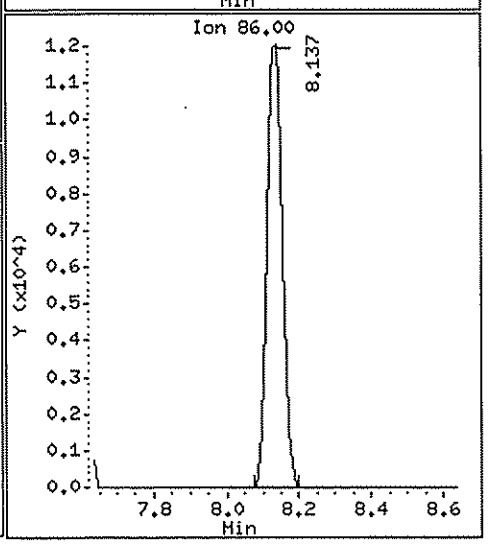












Data File: /var/chem/gcms/mj.i/J041707.b/jtph1.d

Date : 17-APR-2007 20:05

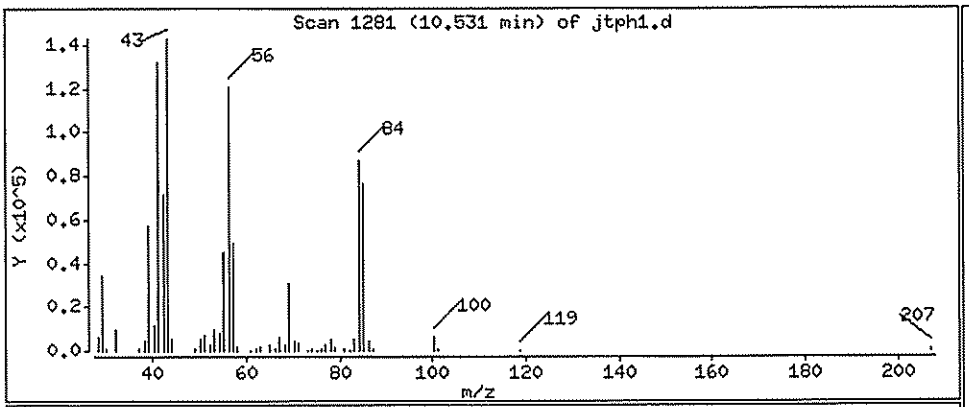
Client ID: DUP(S.S) Instrument: mj.i

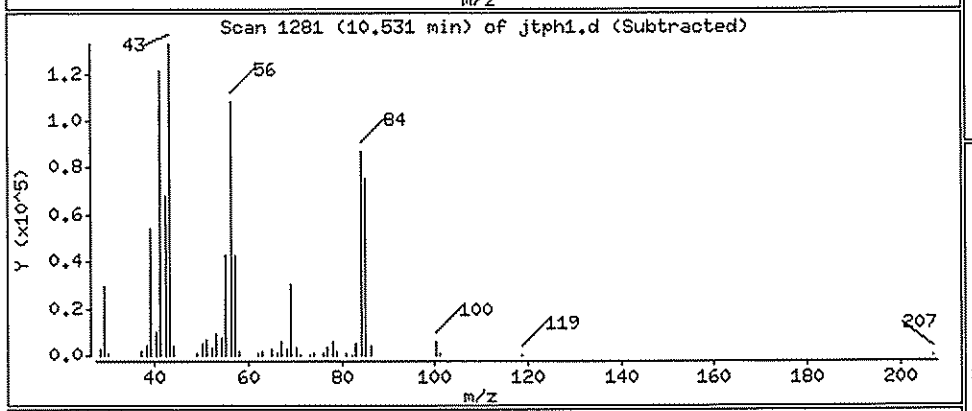
Sample Info: JTPH11AD,10,0,,,

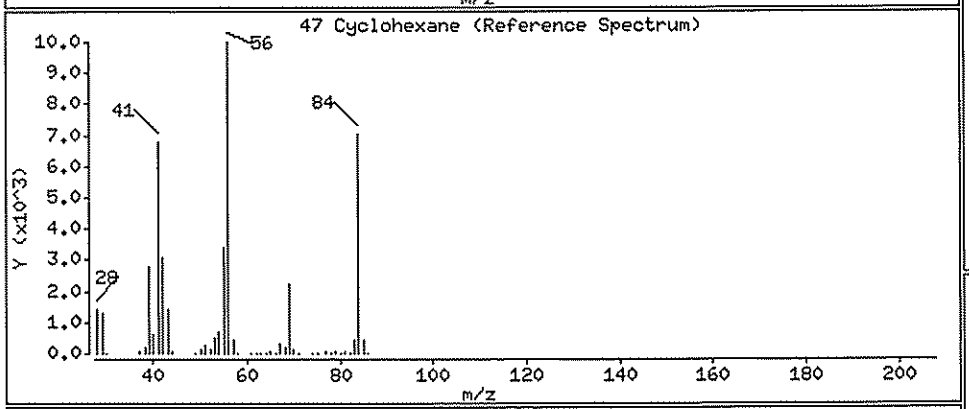
Purge Volume: 500.0 Operator: 7126

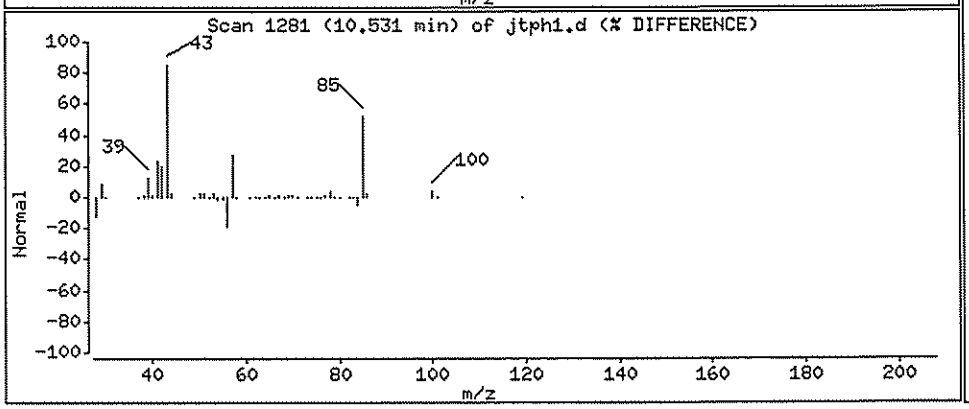
Column phase: Rtx-5 Column diameter: 0.32

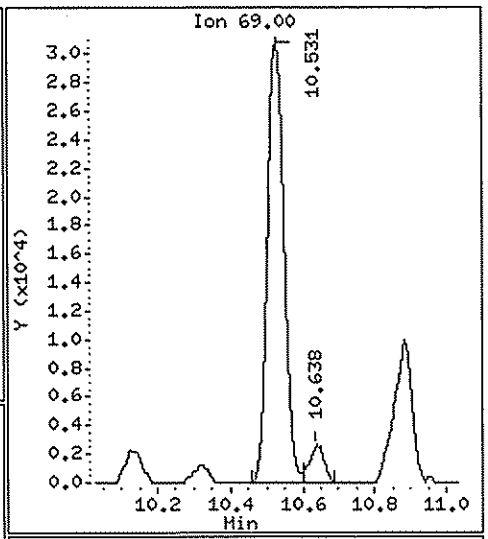
47 Cyclohexane Concentration: 25.17 ppb(v/v)

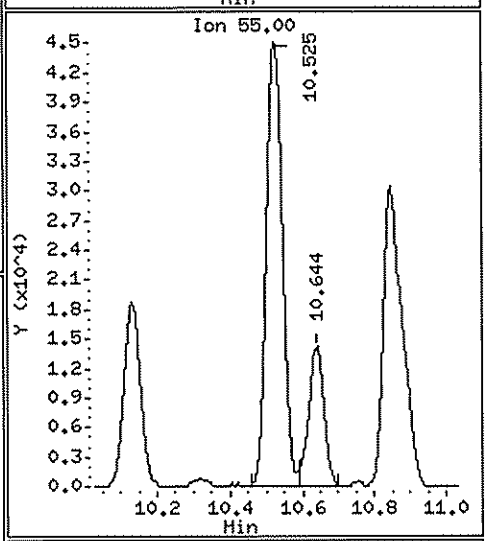


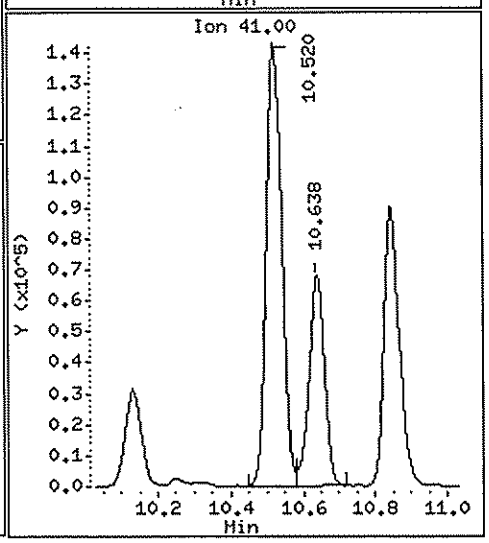












Data File: /var/chem/gcms/mj.i/J041707.b/jtph1.d

Date : 17-APR-2007 20:05

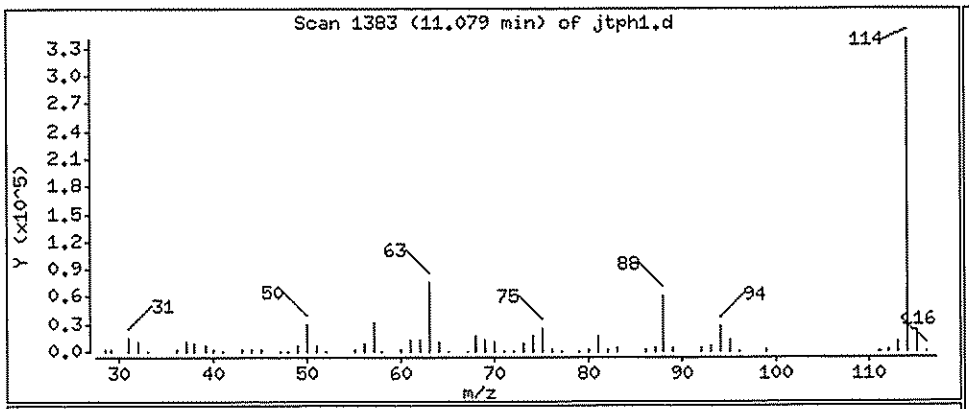
Client ID: DUP(S,S) Instrument: mj.i

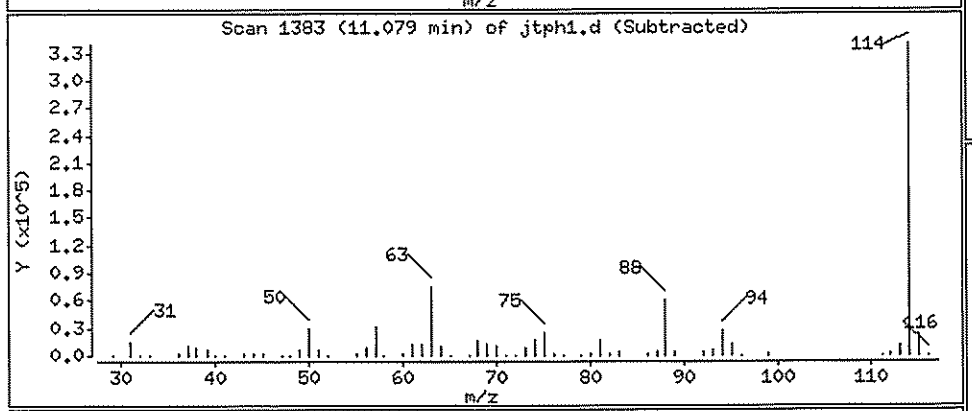
Sample Info: JTPH11AD,10,0,,,

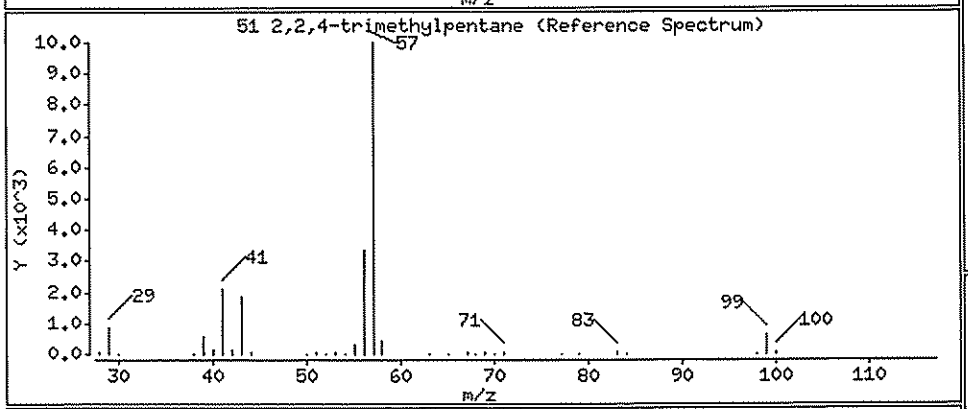
Purge Volume: 500.0 Operator: 7126

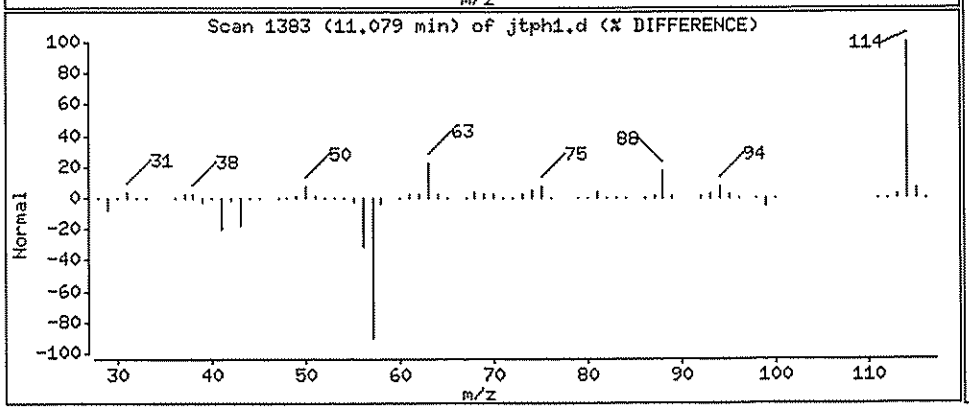
Column phase: Rtx-5 Column diameter: 0.32

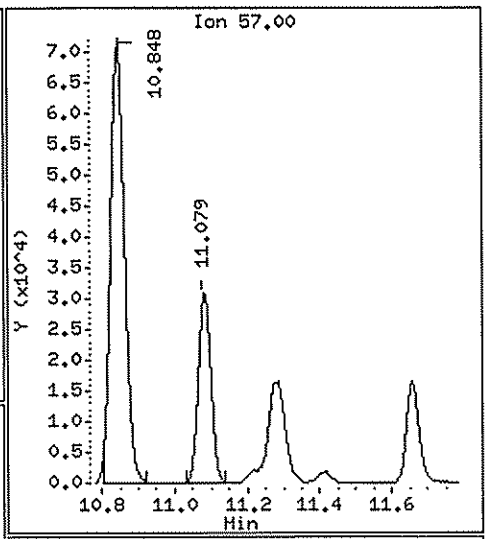
51 2,2,4-trimethylpentane Concentration: 2.251 ppb(v/v)

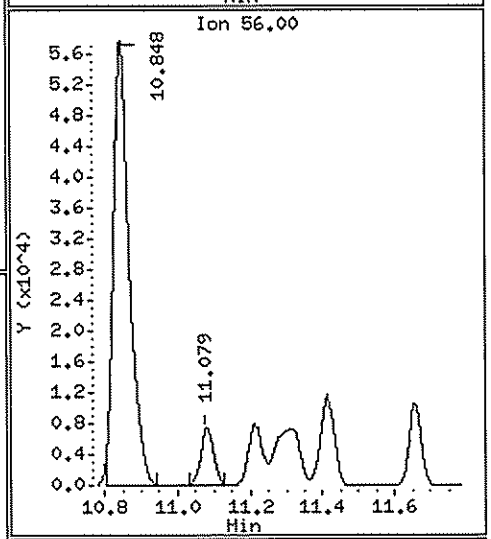


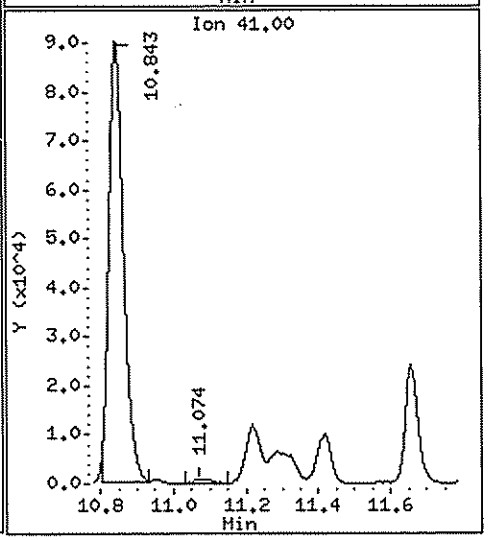












Data File: /var/chem/gcms/mj.i/J041707.b/jtph1.d

Date : 17-APR-2007 20:05

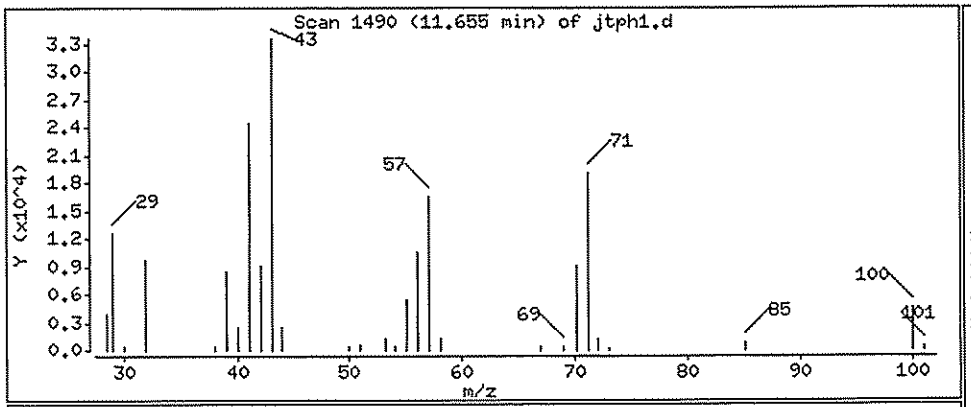
Client ID: DUP(S.S) Instrument: mj.i

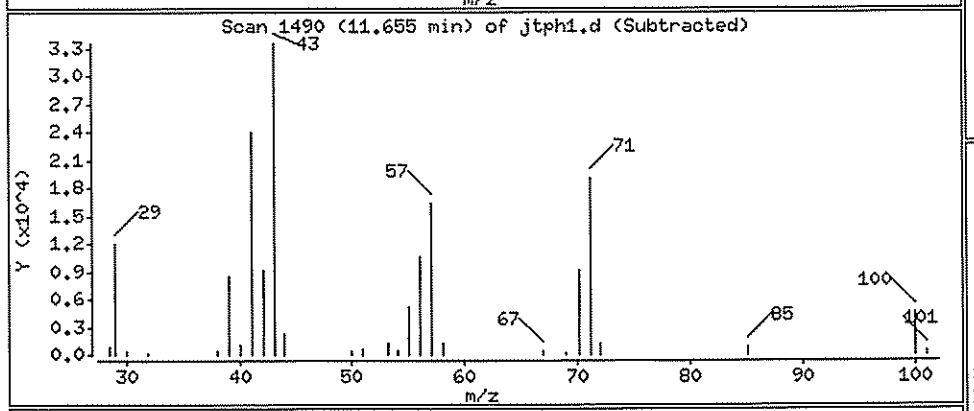
Sample Info: JTPH11AD,10,0,,,

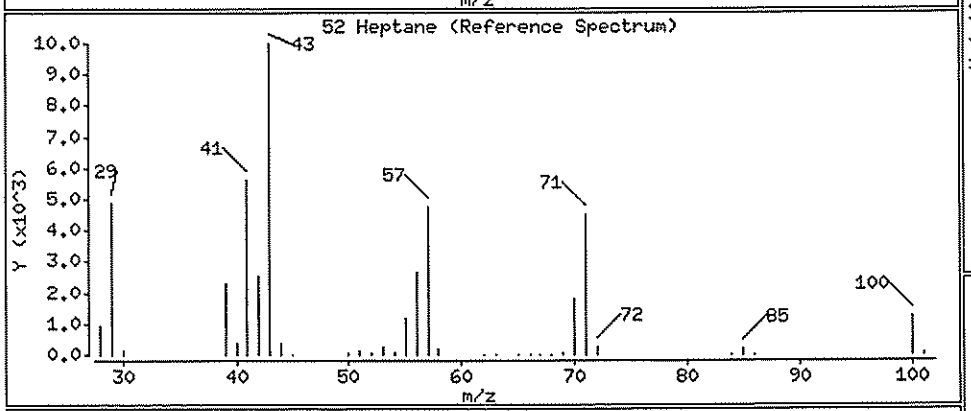
Purge Volume: 500.0 Operator: 7126

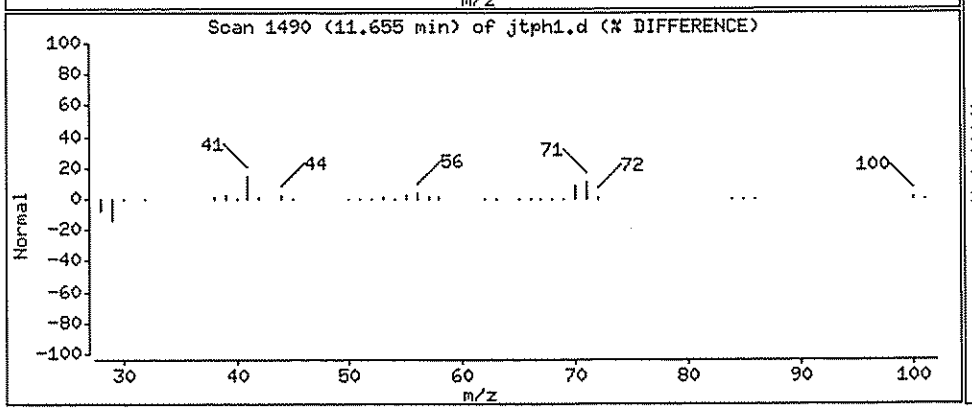
Column phase: Rtx-5 Column diameter: 0.32

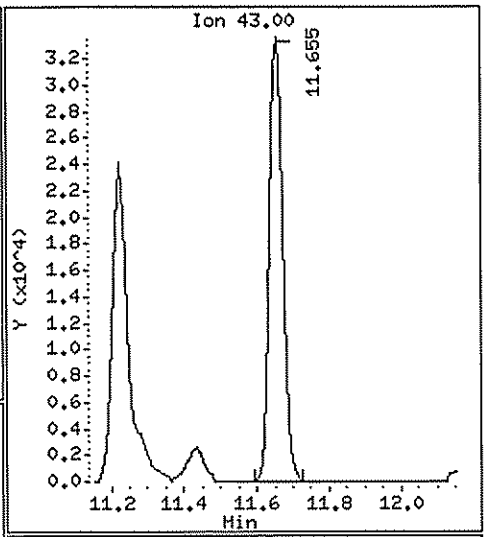
52 Heptane Concentration: 6.660 ppb(v/v)

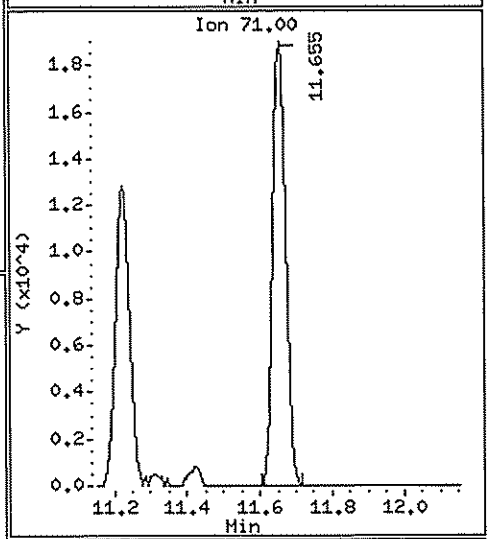


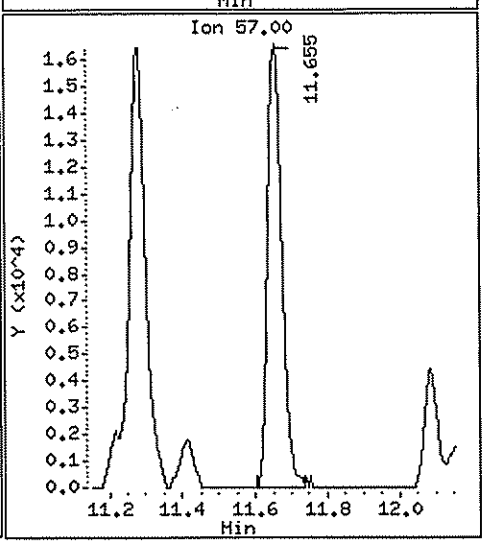












Data File: /var/chem/gcms/mj.i/J041707.b/jtph1.d

Date : 17-APR-2007 20:05

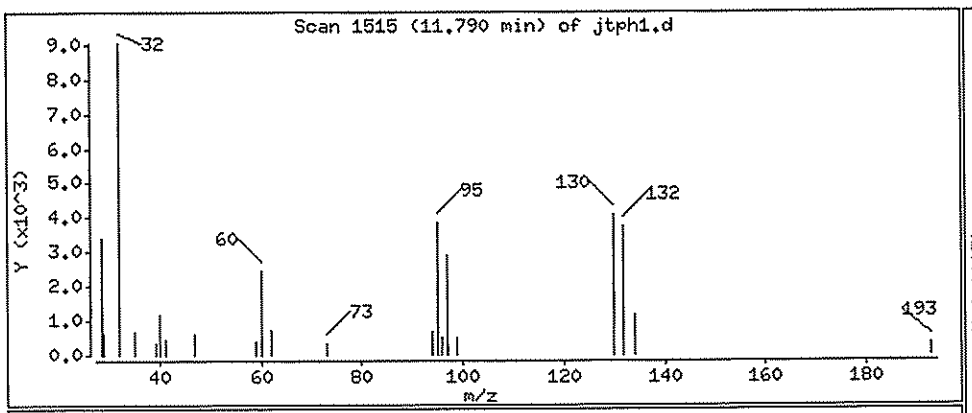
Client ID: DUP(S.S) Instrument: mj.i

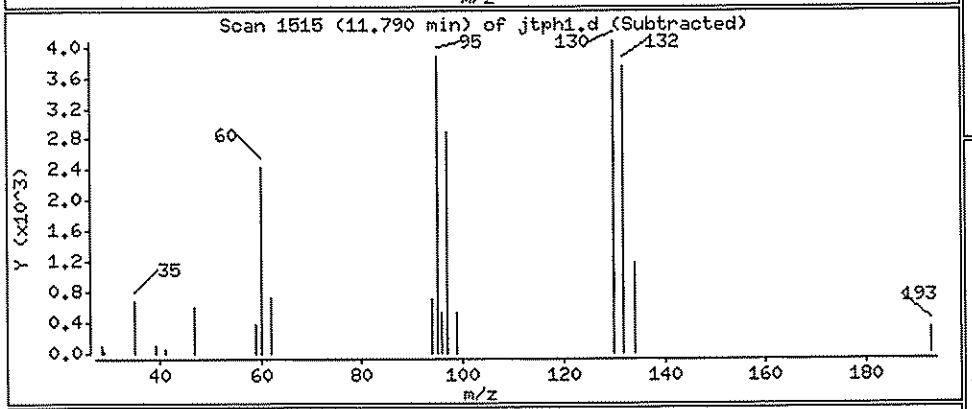
Sample Info: JTPH11AD,10,0,,,

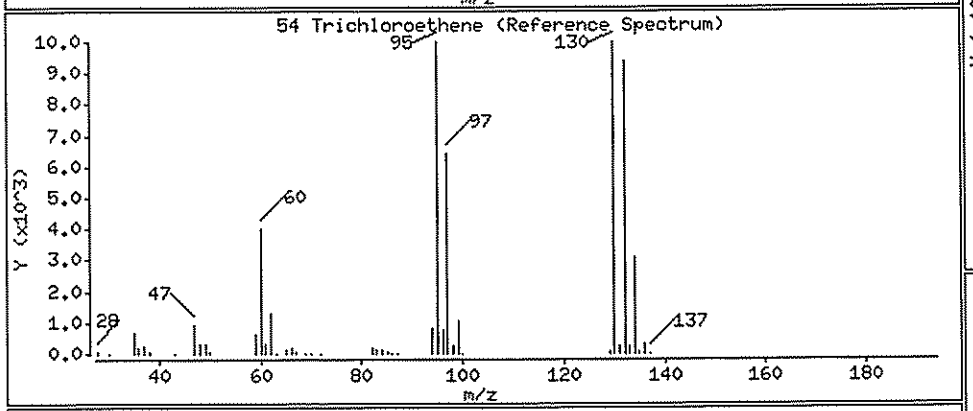
Purge Volume: 500.0 Operator: 7126

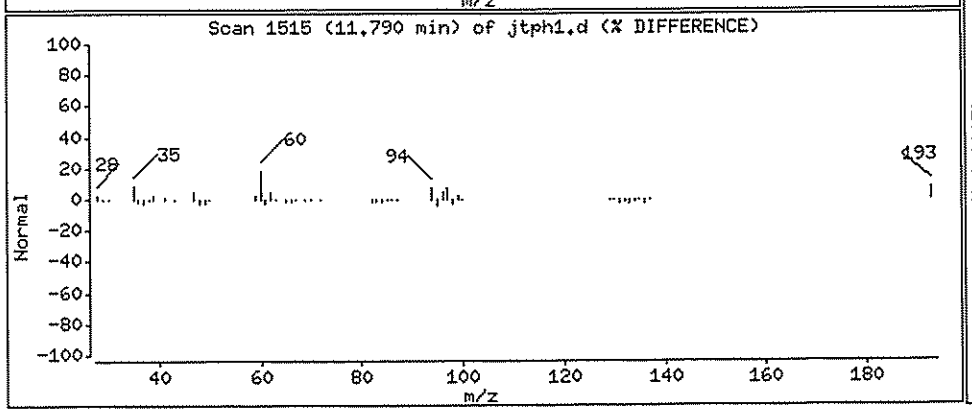
Column phase: Rtx-5 Column diameter: 0.32

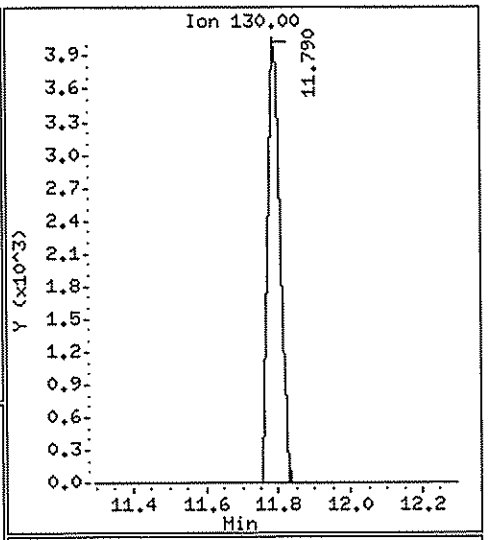
54 Trichloroethene Concentration: 0.7220 ppb(v/v)

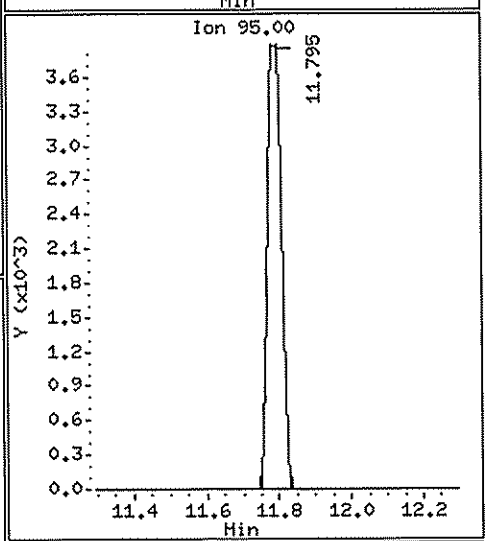


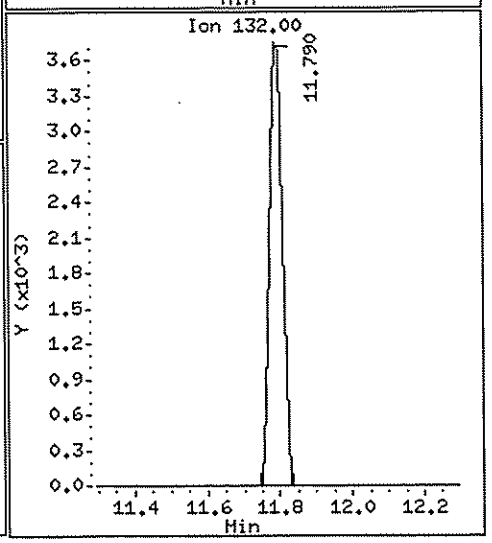












Data File: /var/chem/gcms/mj.i/J041707.b/jtph1.d

Date : 17-APR-2007 20:05

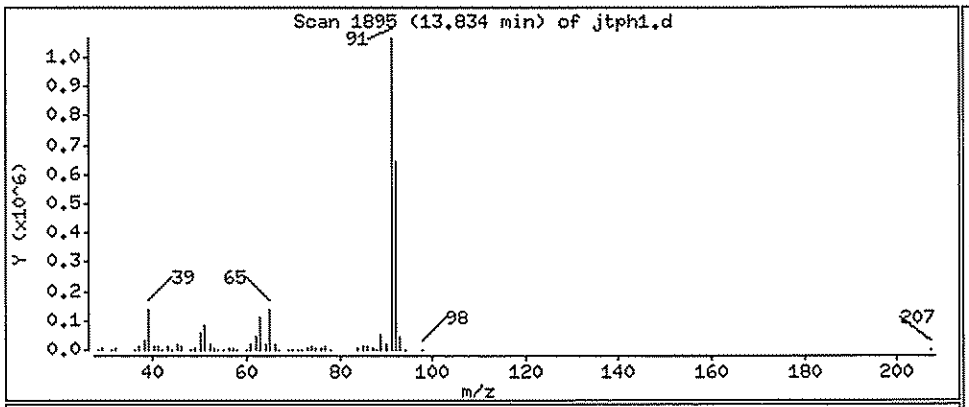
Client ID: DUP(S,S) Instrument: mj.i

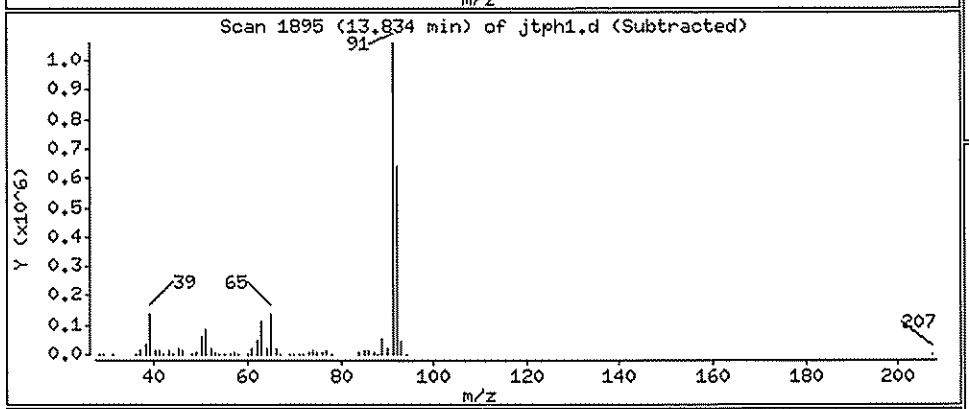
Sample Info: JTPH11AD,10,0,,,

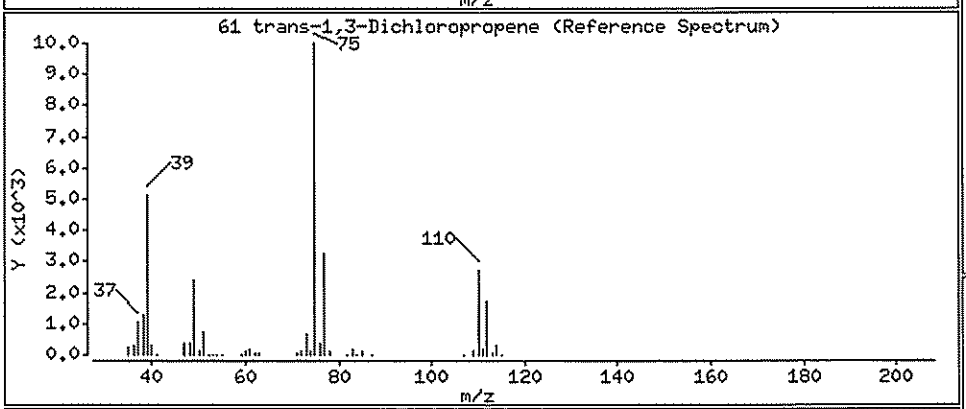
Purge Volume: 500.0 Operator: 7126

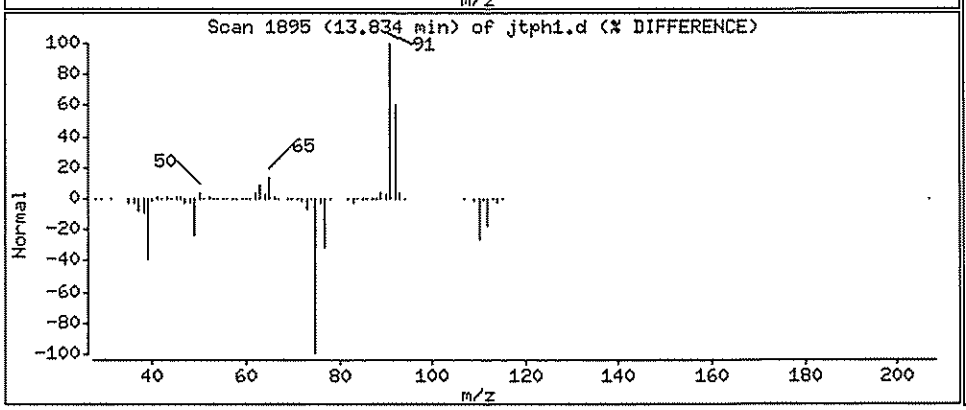
Column phase: Rtx-5 Column diameter: 0.32

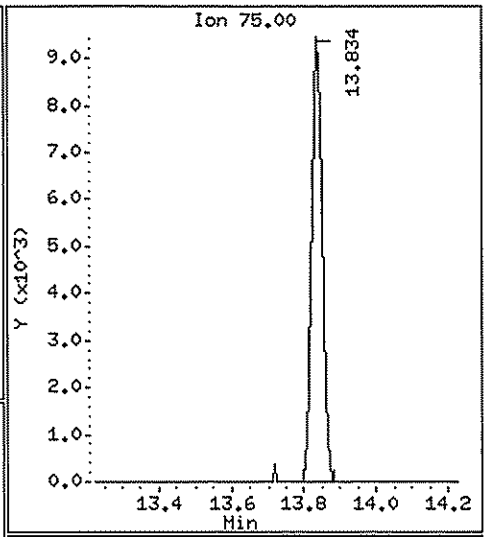
61 trans-1,3-Dichloropropene Concentration: 1.706 ppb(v/v)

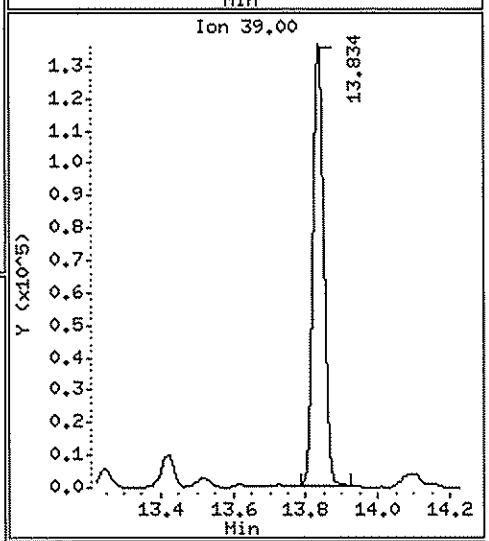


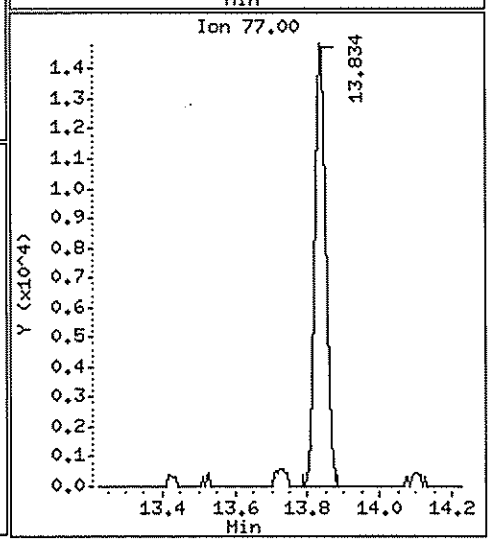












Data File: /var/chem/gcms/mj.i/J041707.b/jtph1.d

Date : 17-APR-2007 20:05

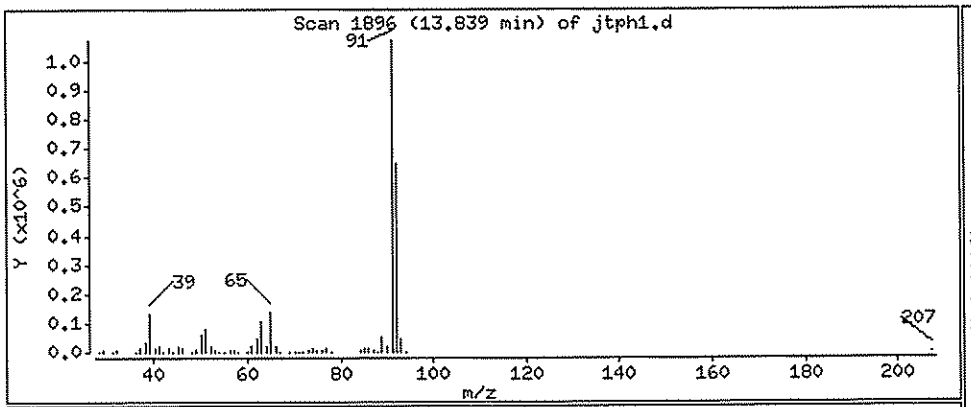
Client ID: DUP(S,S) Instrument: mj.i

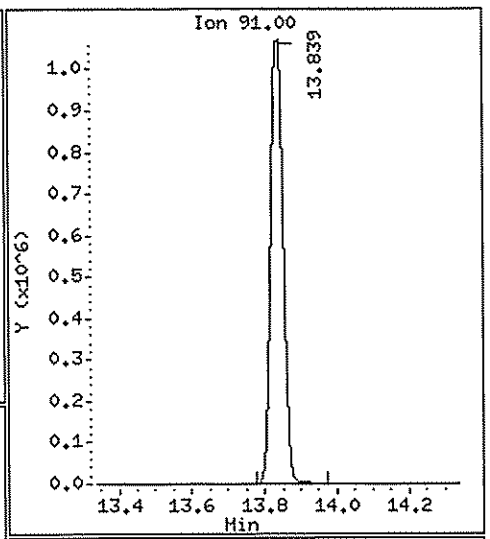
Sample Info: JTPH11AD,10,0,,,

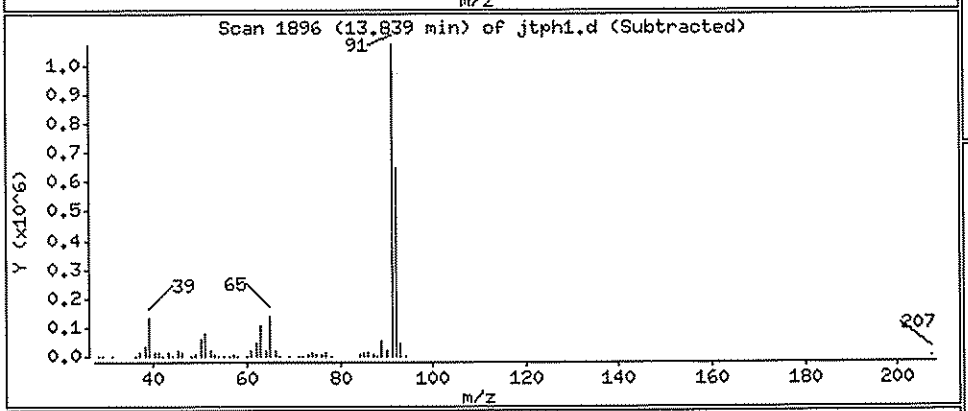
Purge Volume: 500.0 Operator: 7126

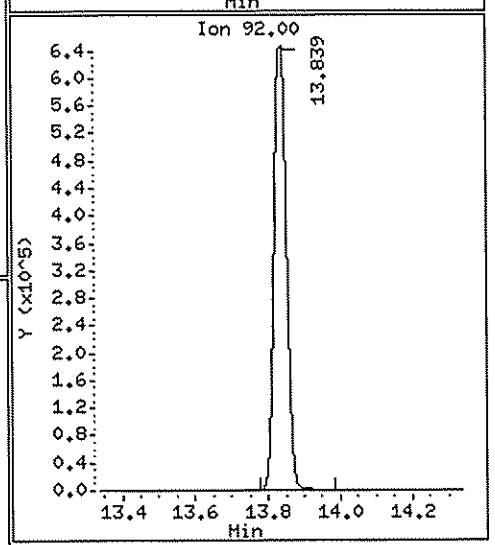
Column phase: Rtx-5 Column diameter: 0.32

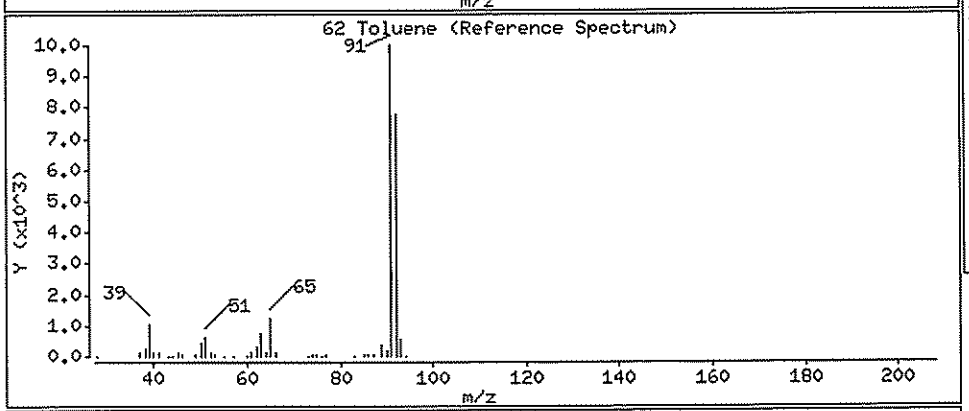
62 Toluene Concentration: 118.5 ppb(v/v)

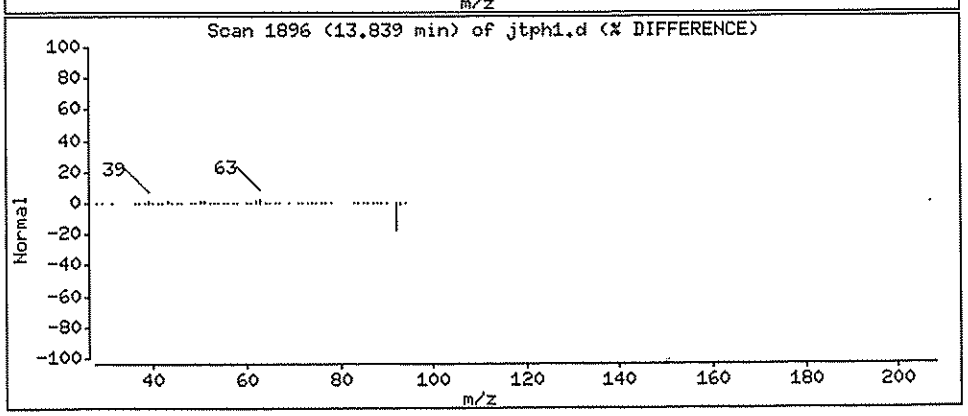












Data File: /var/chem/gcms/mj.i/J041707.b/jtph1.d

Date : 17-APR-2007 20:05

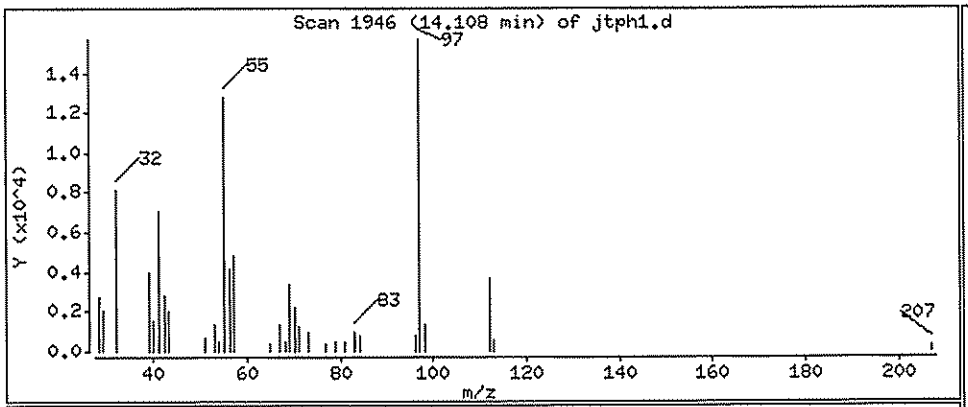
Client ID: DUP(S,S) Instrument: mj.i

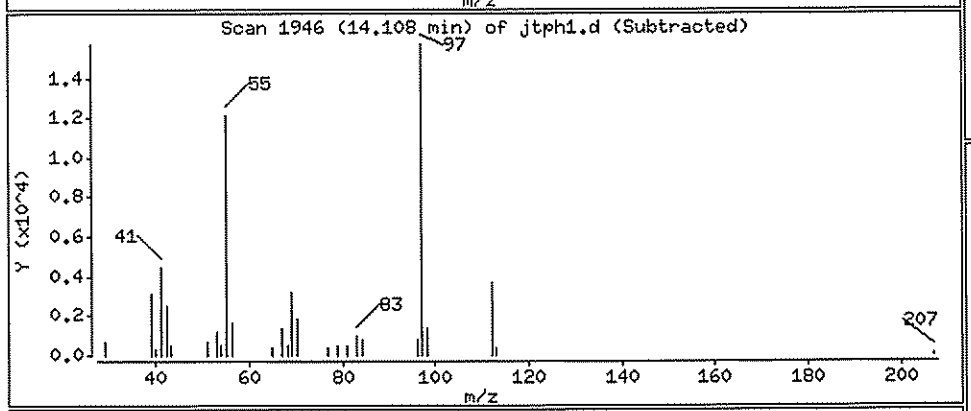
Sample Info: JTPH11AD,10,0,,,

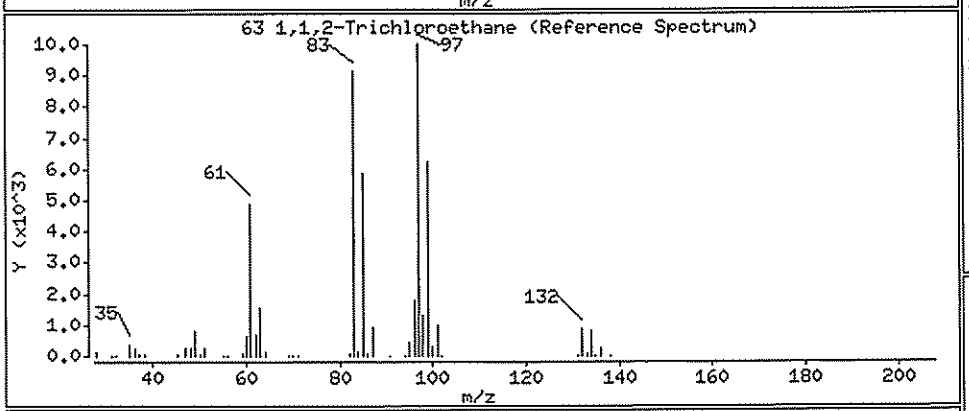
Purge Volume: 500.0 Operator: 7126

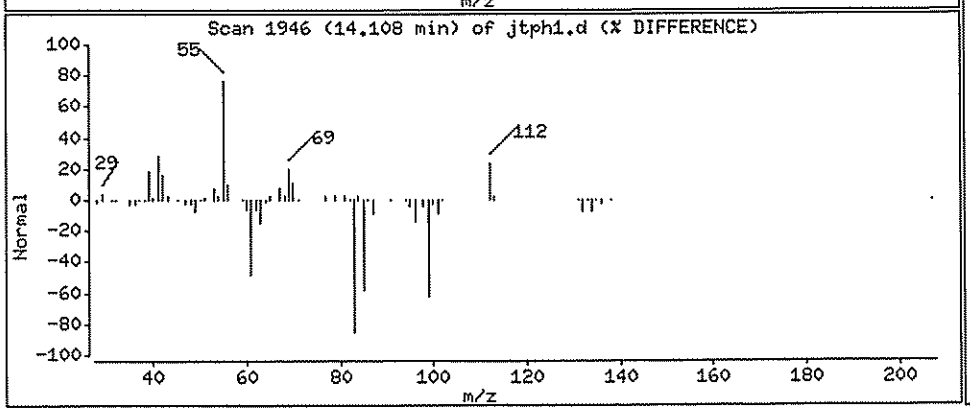
Column phase: Rtx-5 Column diameter: 0.32

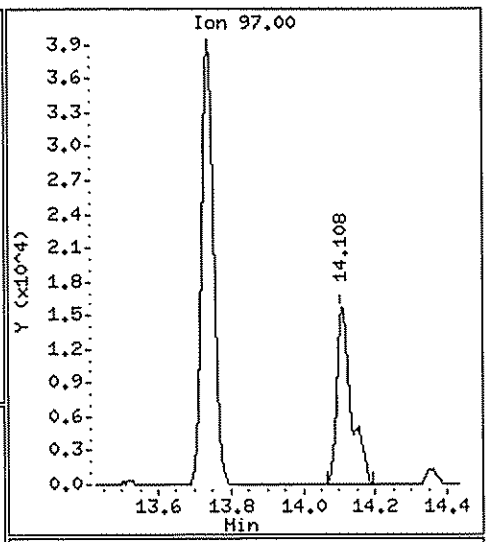
63 1,1,2-Trichloroethane Concentration: 6.373 ppb(v/v)

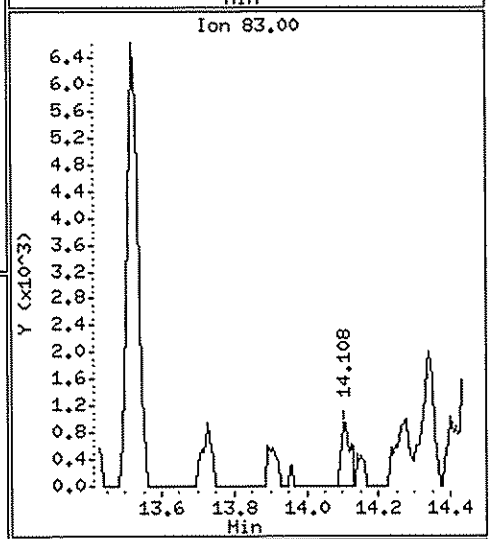


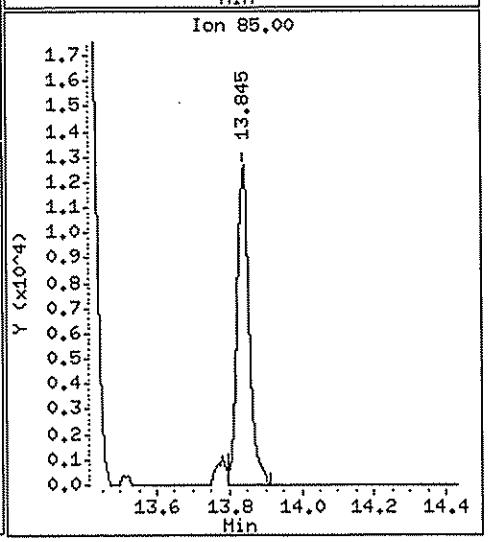












Data File: /var/chem/gcms/mj.i/J041707.b/jtph1.d

Date : 17-APR-2007 20:05

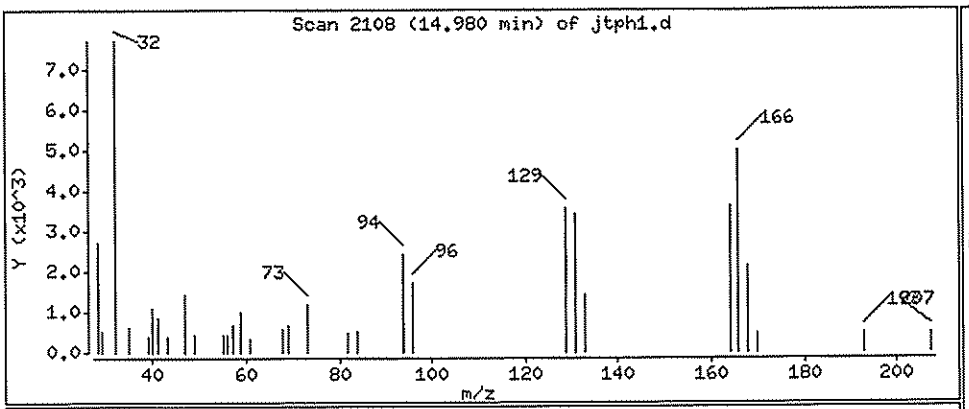
Client ID: DUP(S.S) Instrument: mj.i

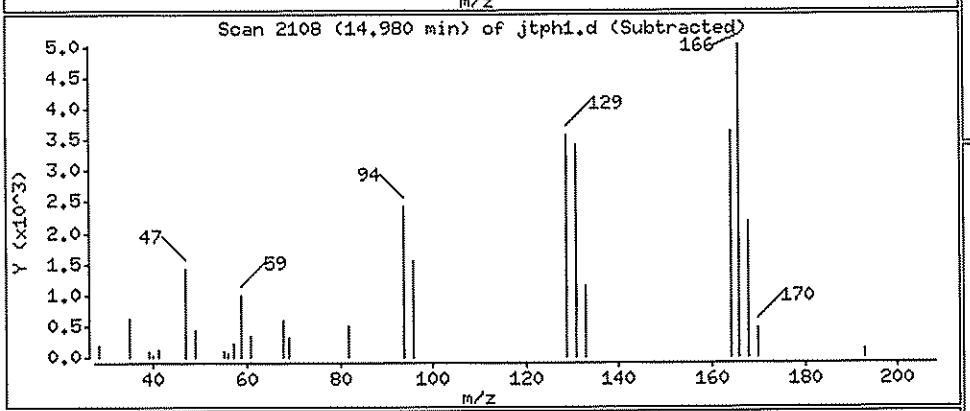
Sample Info: JTPH11AD,10,0,,,

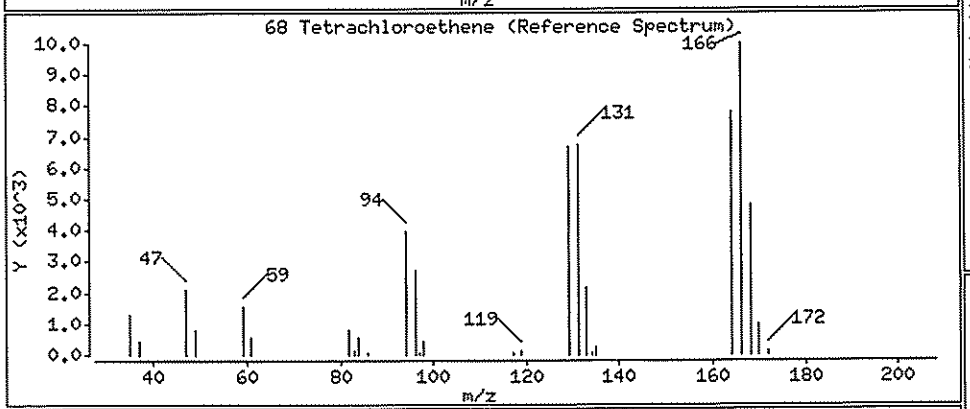
Purge Volume: 500.0 Operator: 7126

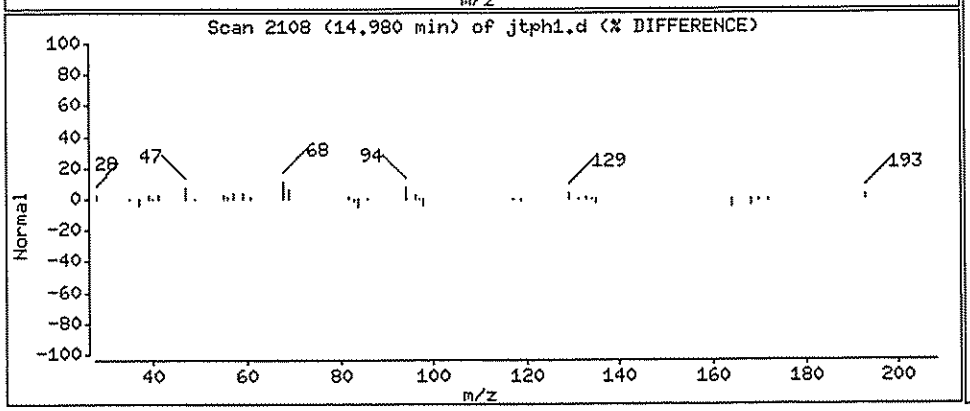
Column phase: Rtx-5 Column diameter: 0.32

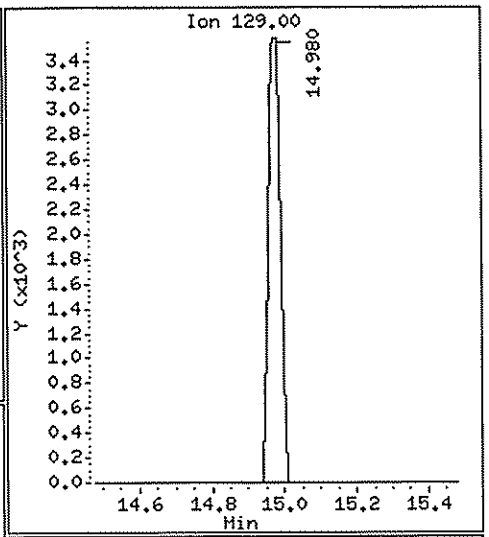
68 Tetrachloroethene Concentration: 0.8072 ppb(v/v)

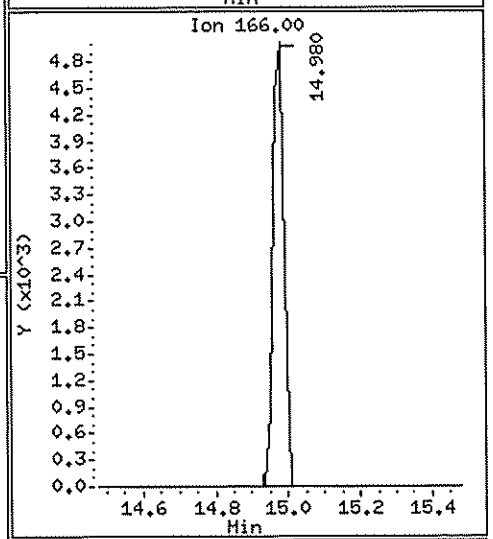


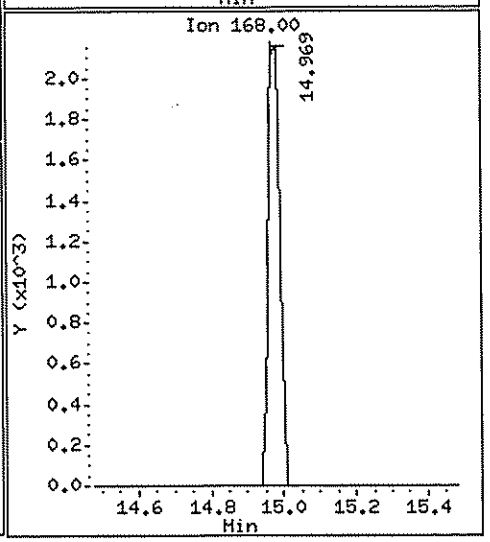












Data File: /var/chem/gcms/mj.i/J041707.b/jtph1.d

Date : 17-APR-2007 20:05

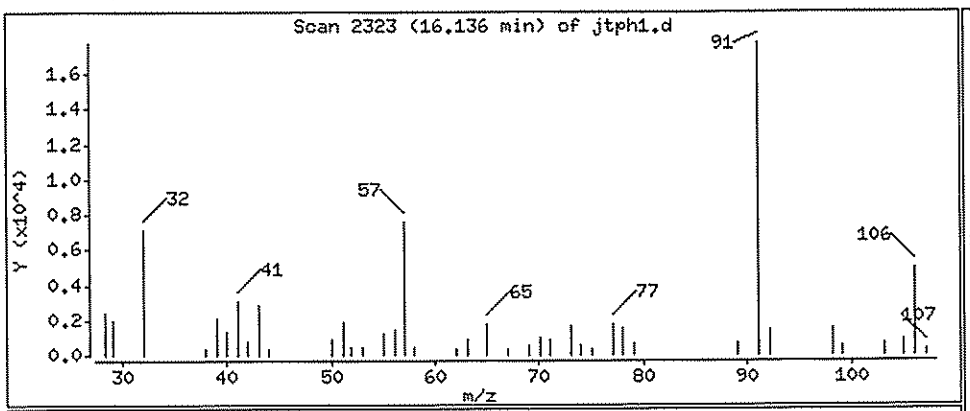
Client ID: DUP(S.S) Instrument: mj.i

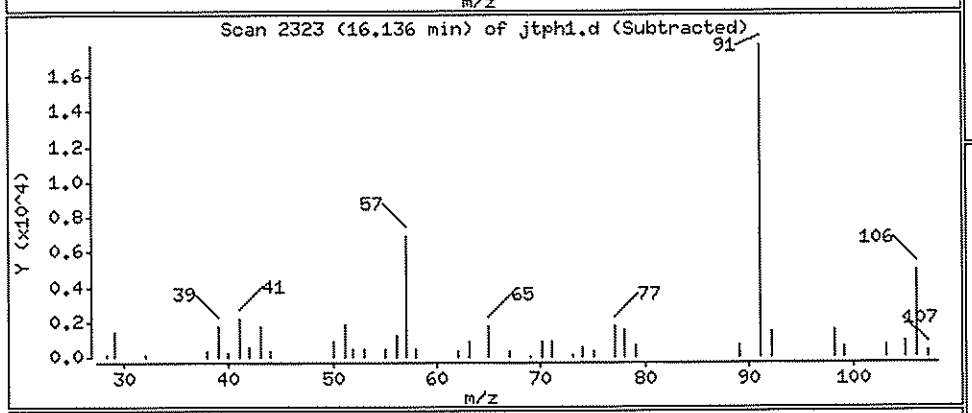
Sample Info: JTPH11AD,10,0,,,

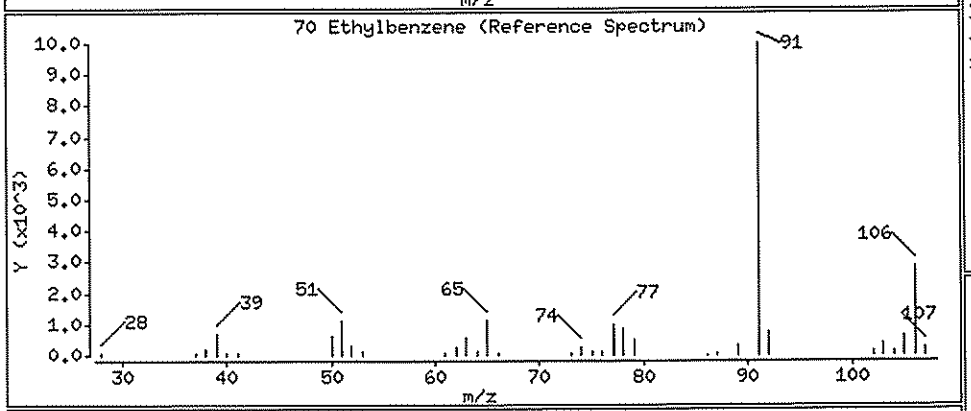
Purge Volume: 500.0 Operator: 7126

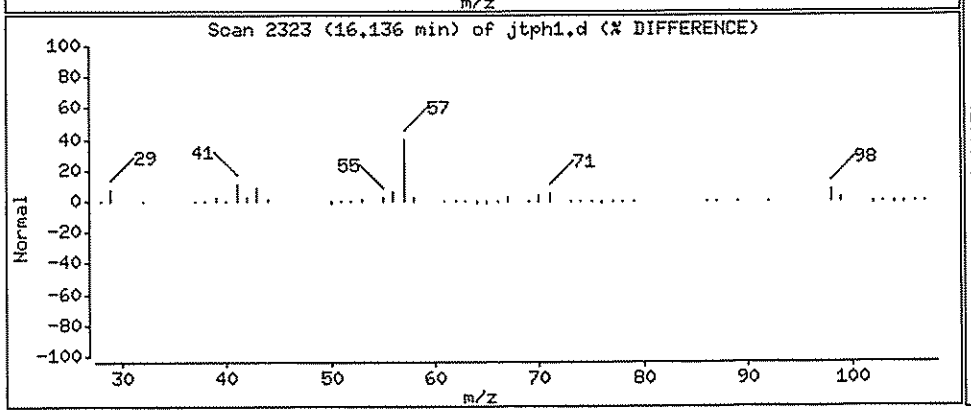
Column phase: Rtx-5 Column diameter: 0.32

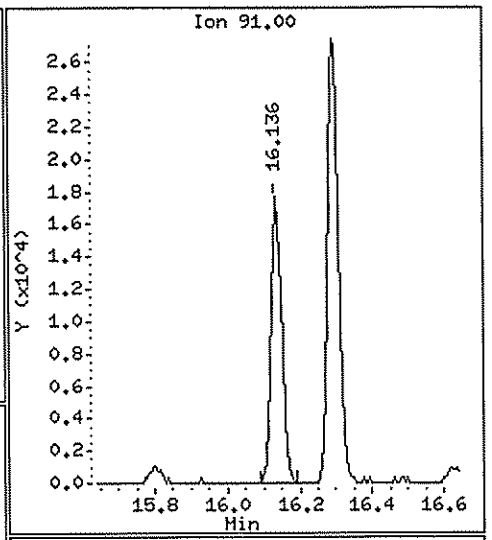
70 Ethylbenzene Concentration: 1.396 ppb(v/v)

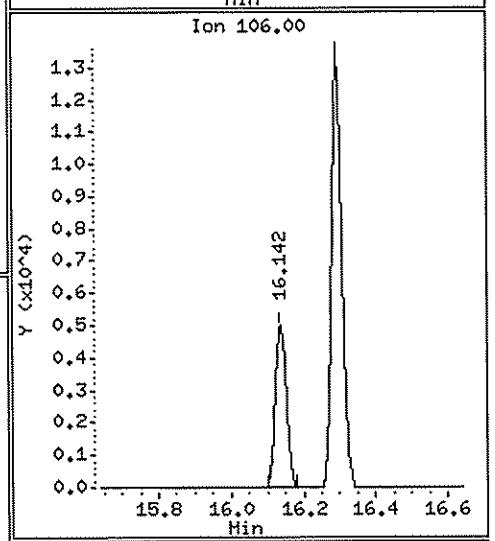


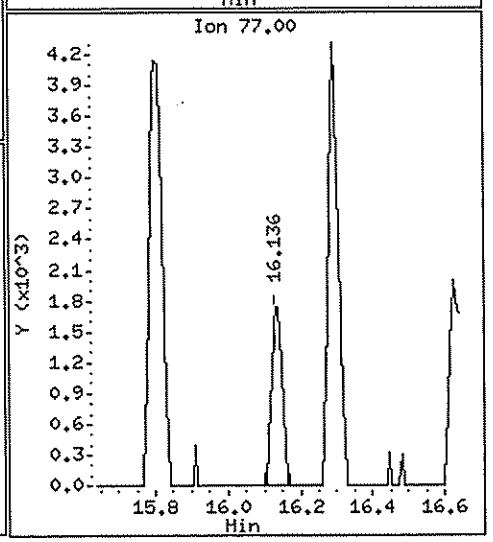












Data File: /var/chem/gcms/mj.i/J041707.b/jtph1.d

Date : 17-APR-2007 20:05

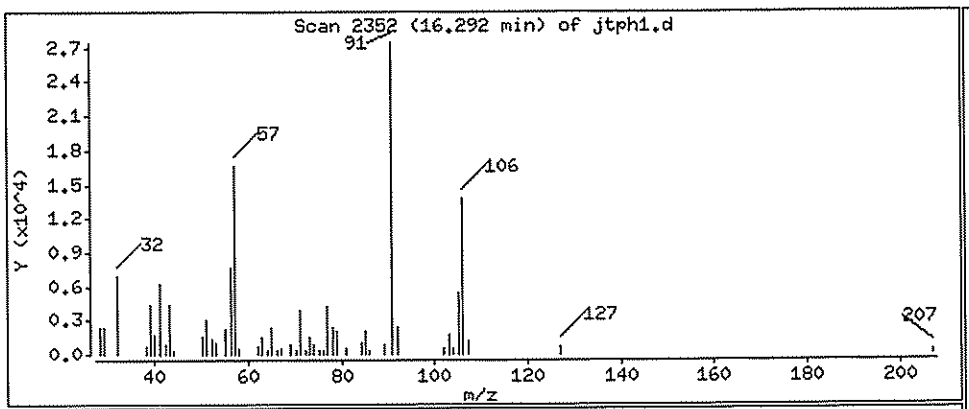
Client ID: DUP(S.S) Instrument: mj.i

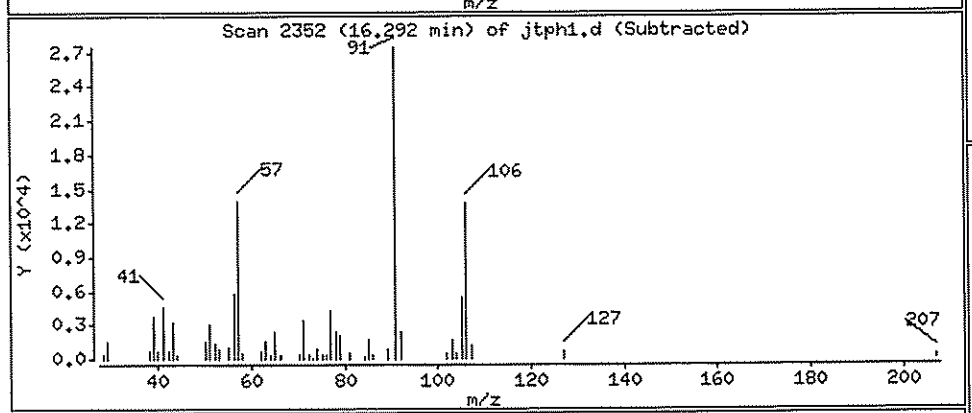
Sample Info: JTPH11AD,10,0,,,

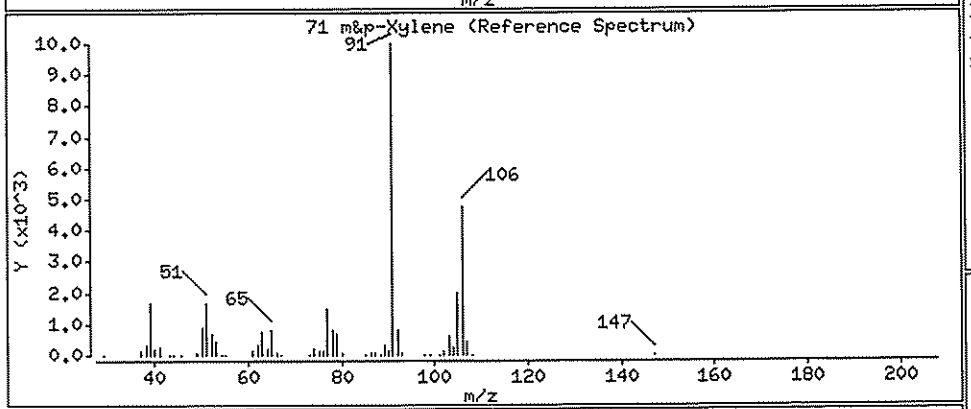
Purge Volume: 500.0 Operator: 7126

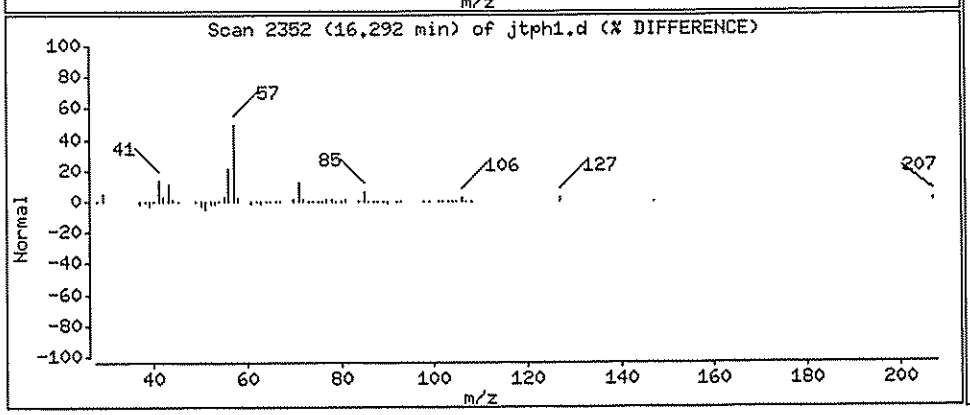
Column phase: Rtx-5 Column diameter: 0.32

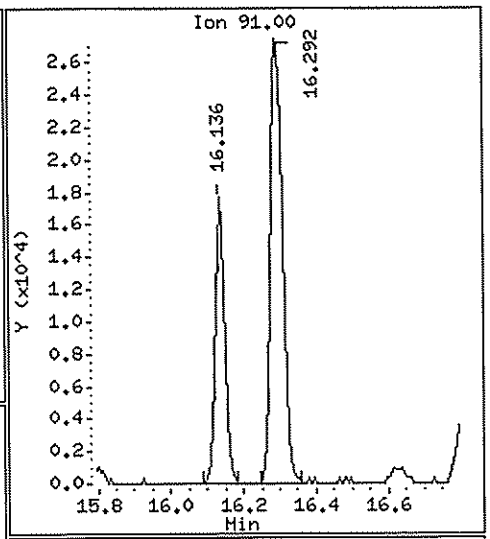
71 m&p-Xylene Concentration: 3.259 ppb(v/v)

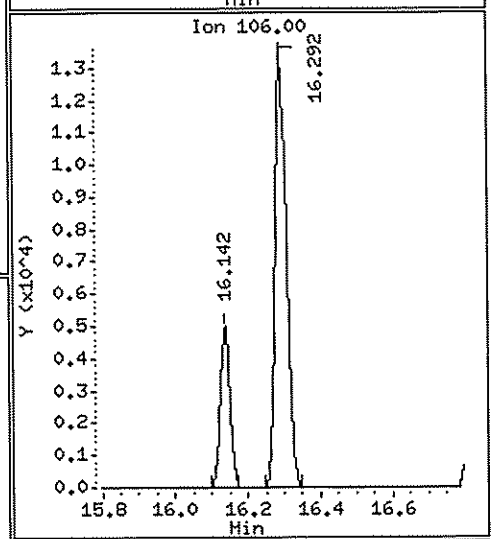


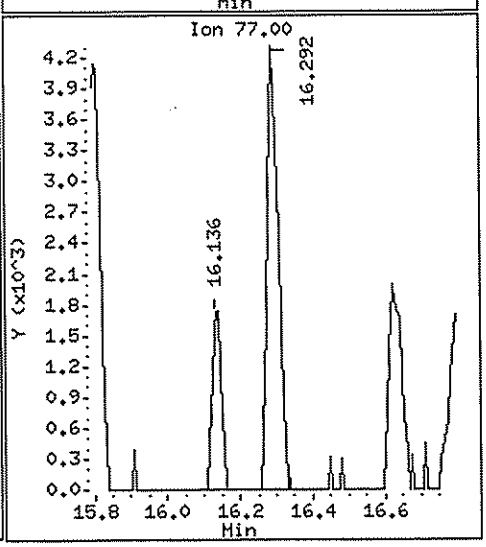












Data File: /var/chem/gcms/mj.i/J041707.b/jtph1.d

Date : 17-APR-2007 20:05

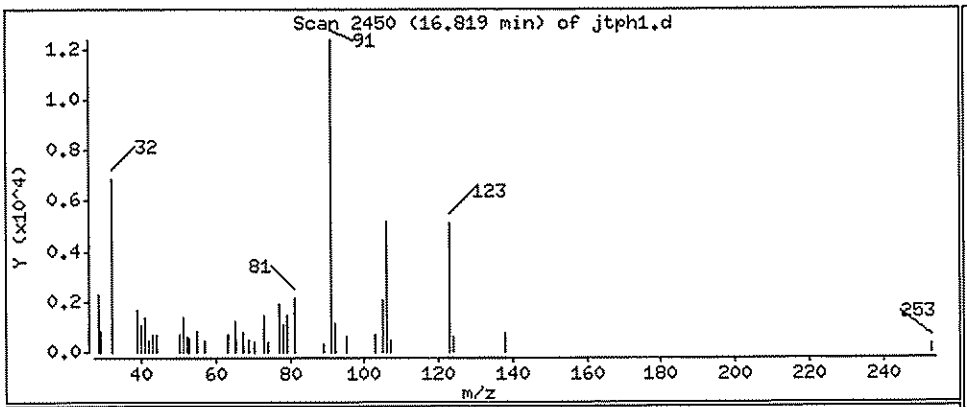
Client ID: DUP(S.S) Instrument: mj.i

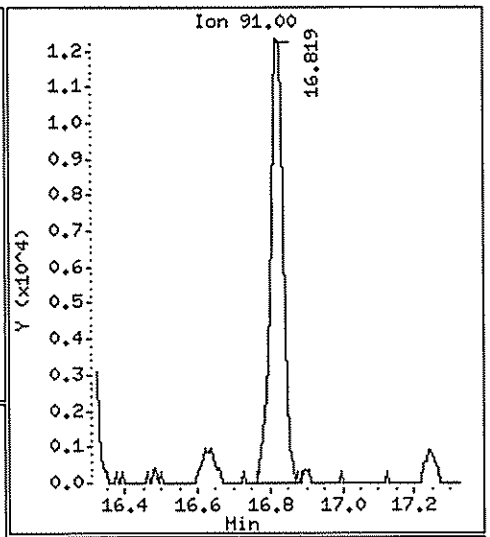
Sample Info: JTPH11AD,10,0,,,

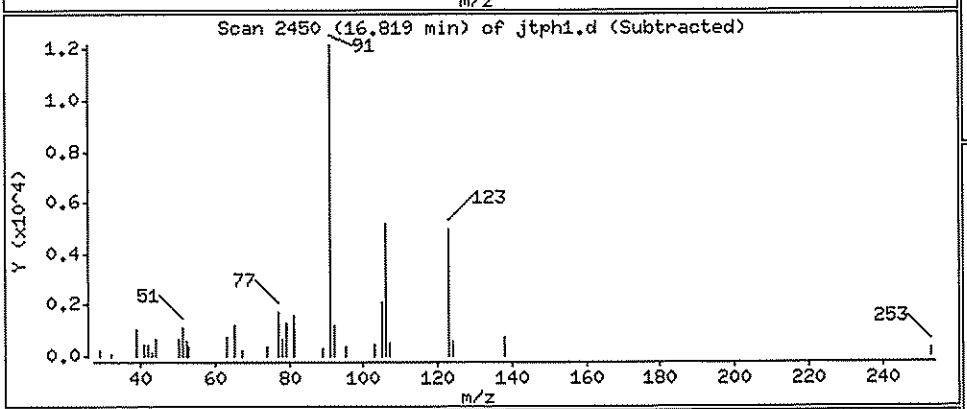
Purge Volume: 500.0 Operator: 7126

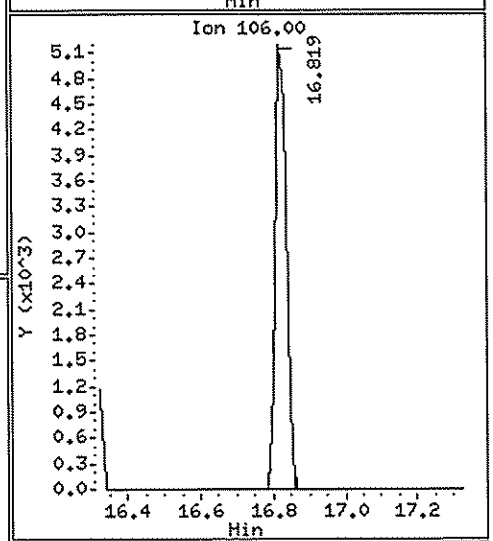
Column phase: Rtx-5 Column diameter: 0.32

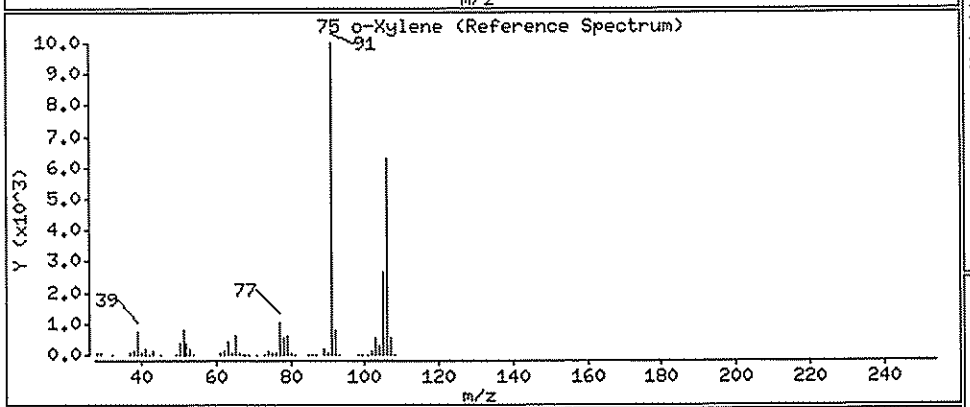
75 o-Xylene Concentration: 1.404 ppb(v/v)

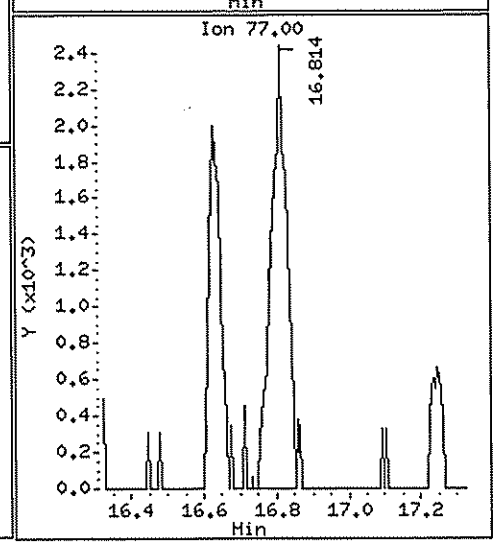


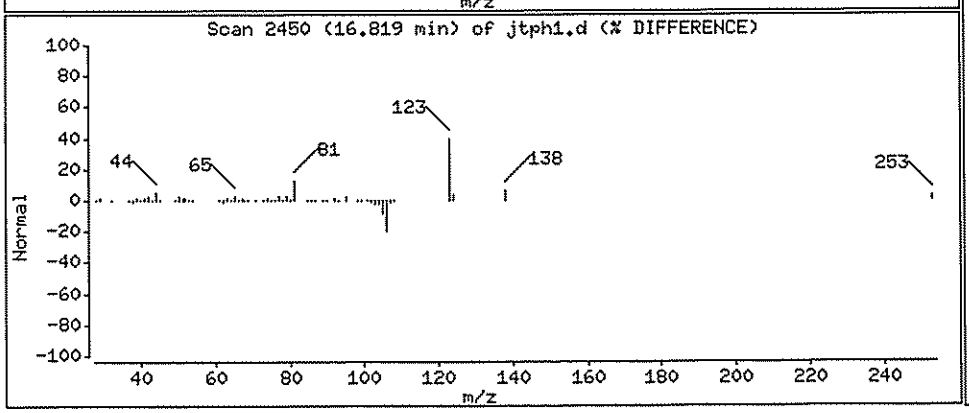












AKRF-White Plains

Client Sample ID: SV-13(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 007 **Work Order #** JTPH51AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/17/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7108057
Dilution Factor.: 10 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.80	ND	3.6
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.80	ND	5.6
Ethylbenzene	**2.2**	**0.80**	**9.4**	**3.5**
Trichlorofluoromethane	ND	0.80	ND	4.5
n-Heptane	**7.4**	**2.0**	**31**	**8.2**
n-Hexane	**25**	**2.0**	**88**	**7.0**
2,2,4-Trimethylpentane	ND	2.0	ND	9.3
Benzene	**0.90**	**0.80**	**2.9**	**2.6**
1,1,2,2-Tetrachloroethane	ND	0.80	ND	5.5
Tetrachloroethene	**1.2**	**0.80**	**7.8**	**5.4**
Toluene	**160**	**0.80**	**600**	**3.0**
1,1,1-Trichloroethane	ND	0.80	ND	4.4
1,1,2-Trichloroethane	ND	0.80	ND	4.4
Trichloroethene	**0.89**	**0.40**	**4.8**	**2.1**
1,3,5-Trimethylbenzene	ND	0.80	ND	3.9
Vinyl chloride	ND	0.80	ND	2.0
o-Xylene	**2.2**	**0.80**	**9.6**	**3.5**
Methyl tert-butyl ether	ND	4.0	ND	14
m-Xylene & p-Xylene	**5.2**	**0.80**	**22**	**3.5**
Bromodichloromethane	ND	0.80	ND	5.4
1,2-Dibromoethane (EDB)	ND	0.80	ND	6.1
Vinyl bromide	ND	0.80	ND	3.5
Bromoform	ND	0.80	ND	8.3
Bromomethane	ND	0.80	ND	3.1
1,3-Butadiene	ND	1.6	ND	3.5
4-Ethyltoluene	ND	1.6	ND	7.9
Carbon tetrachloride	ND	0.40	ND	2.5
Dibromochloromethane	ND	0.80	ND	6.8
Chloroethane	ND	0.80	ND	2.1
Chloroform	ND	0.80	ND	3.9
3-Chloropropene	ND	0.80	ND	2.5
Cyclohexane	**28**	**2.0**	**97**	**6.9**
Dichlorodifluoromethane	ND	0.80	ND	4.0
1,1-Dichloroethane	ND	0.80	ND	3.2
1,2-Dichloroethane	ND	0.80	ND	3.2
1,1-Dichloroethene	ND	0.80	ND	3.2
cis-1,2-Dichloroethene	ND	0.80	ND	3.2
trans-1,2-Dichloroethene	ND	0.80	ND	3.2
1,2-Dichloropropane	ND	0.80	ND	3.7

AKRF-White Plains

Client Sample ID: SV-13(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 007 **Work Order #** JTPH51AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.80	ND	3.6

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	102	70 - 130
Toluene-d8	107	70 - 130
4-Bromofluorobenzene	101	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TO-14 _rev5.rpt version 5.0.103 10/12/2006

Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d
Report Date: 18-Apr-2007 12:00

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041707.b/jtph5.d
Lab Smp Id: JTPH51AD Client Smp ID: SV-13(S.S)
Inj Date : 17-APR-2007 20:41
Operator : 7126 Inst ID: mj.i
Smp Info : JTPH51AD,10,0,,,
Misc Info : J041707,TO15,mabna.sub,,,50 ML
Comment :
Method : /var/chem/gcms/mj.i/J041707.b/TO15.m
Meth Date : 18-Apr-2007 11:59 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 19
Dil Factor: 10.00000
Integrator: HP RTE Compound Sublist: magna.sub
Target Version: 3.50

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

Name	Value	Description
DF	10.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.893	8.894	(1.000)	191510	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.083	11.089	(1.000)	809502	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.806	15.806	(1.000)	679160	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.905	9.911	(0.894)	210531	4.08717	4.087
$ 5 Toluene-d8	98	13.724	13.725	(0.868)	707659	4.28174	4.282
$ 6 4-Bromofluorobenzene	95	17.441	17.442	(1.103)	554062	4.04293	4.043
32 3-Chloropropene	39	6.241	6.344	(0.702)	6126	0.08970	~~0.8970~~
39 Hexane	56	8.135	8.135	(0.915)	123010	2.50171	25.02
47 Cyclohexane	69	10.523	10.529	(0.950)	98439	2.82140	28.21
49 Benzene	78	10.529	10.540	(0.950)	17510	0.08978	0.8978
51 2,2,4-trimethylpentane	57	11.077	11.282	(1.000)	71619	0.22261	~~2.226~~
52 Heptane	43	11.653	11.654	(1.051)	85834	0.74444	7.444
54 Trichloroethene	130	11.787	11.793	(1.064)	10153	0.08894	0.8894
61 trans-1,3-Dichloropropene	75	13.837	13.725	(0.875)	24023	0.23268	~~2.327~~
62 Toluene	91	13.837	13.838	(0.875)	2814293	15.9166	159.2 ~~(A)~~ OK
63 1,1,2-Trichloroethane	97	14.111	13.929	(0.893)	31570	0.49414	~~4.941~~

VM 4-19-07

Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d
Report Date: 18-Apr-2007 12:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
68 Tetrachloroethene	129	14.977	14.978	(0.948)	9641	0.11574	1.157
70 Ethylbenzene	91	16.139	16.140	(1.021)	45327	0.21649	2.165
71 m&p-Xylene	91	16.295	16.296	(1.031)	83838	0.51753	5.175
75 o-Xylene	91	16.823	16.823	(1.064)	38858	0.22067	2.207
84 1,3,5-Trimethylbenzene	120	18.054	18.163	(1.142)	10365	0.12374	1.237

QC Flag Legend

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

Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d
Report Date: 18-Apr-2007 12:00

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jtph5.d
Lab Smp Id: JTPH51AD
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J041707.b/TO15.m
Misc Info: J041707,TO15,mabna.sub,,,50 ML

Calibration Date: 17-APR-2007
Calibration Time: 10:04
Client Smp ID: SV-13(S.S)
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	174498	103826	245170	191510	9.75
2 1,4-Difluorobenze	650922	387299	914545	809502	24.36
3 Chlorobenzene-d5	597966	355790	840142	679160	13.58

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.89	8.56	9.22	8.89	-0.01
2 1,4-Difluorobenze	11.09	10.76	11.42	11.08	-0.05
3 Chlorobenzene-d5	15.81	15.48	16.14	15.81	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d
Report Date: 18-Apr-2007 12:00

STL Knoxville

RECOVERY REPORT

Client Name: AKRF-White Plains
Sample Matrix: GAS
Lab Smp Id: JTPH51AD
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: magna.sub
Method File: /var/chem/gcms/mj.i/J041707.b/TO15.m
Misc Info: J041707,TO15,mabna.sub,,,50 ML

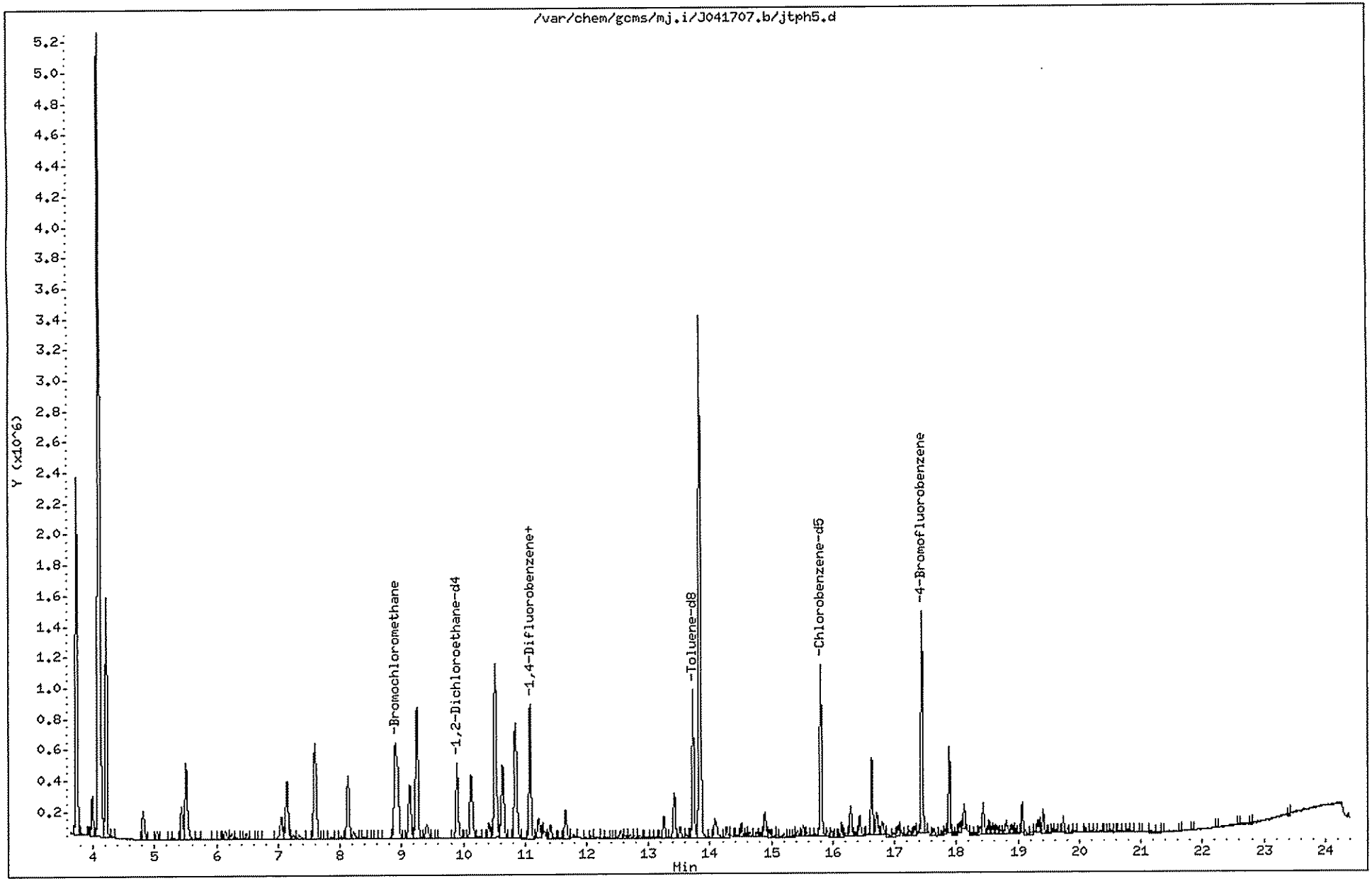
Client SDG: H7D110232
Fraction: OTHER
Client Smp ID: SV-13(S.S)
Operator: 7126
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	4.000	4.087	102.18	70-130
$ 5 Toluene-d8	4.000	4.282	107.04	70-130
$ 6 4-Bromofluorobenze	4.000	4.043	101.07	70-130

Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d
Date : 17-APR-2007 20:41
Client ID: SV-13(S.S)
Sample Info: JTPH51AD,10,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d

Date : 17-APR-2007 20:41

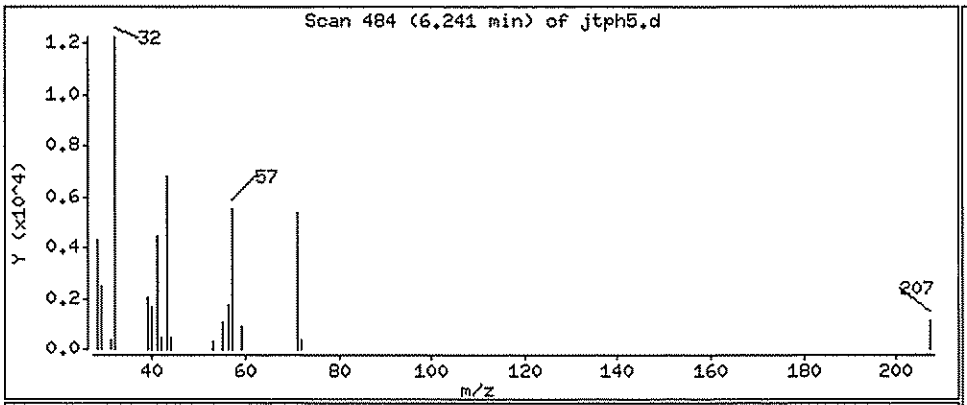
Client ID: SV-13(S.S) Instrument: mj.i

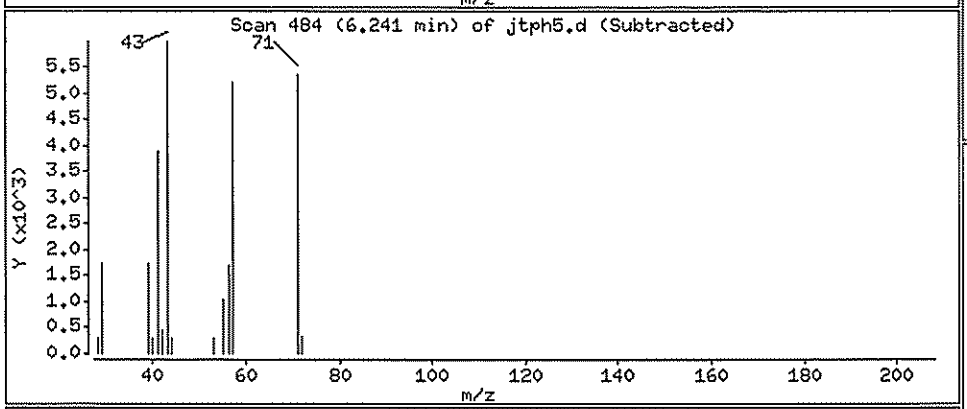
Sample Info: JTPH51AD,10,0,,,

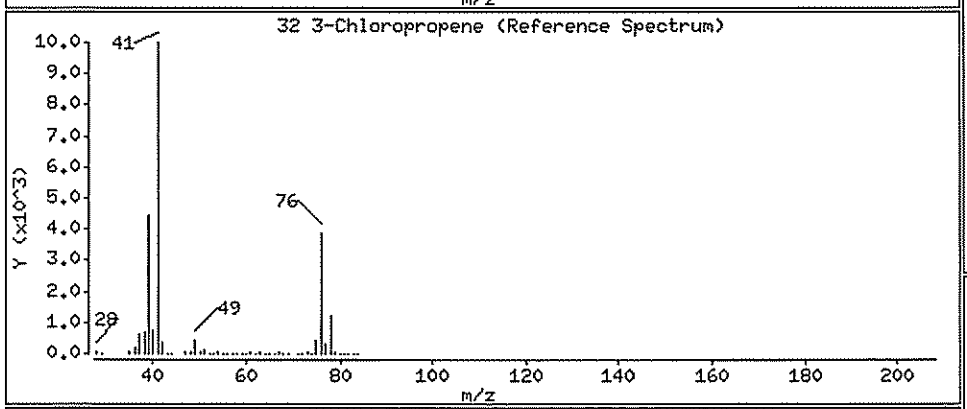
Purge Volume: 500.0 Operator: 7126

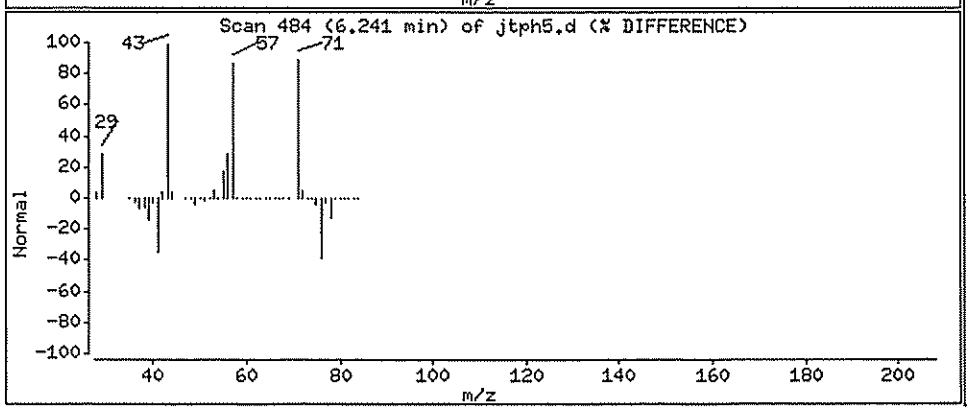
Column phase: Rtx-5 Column diameter: 0.32

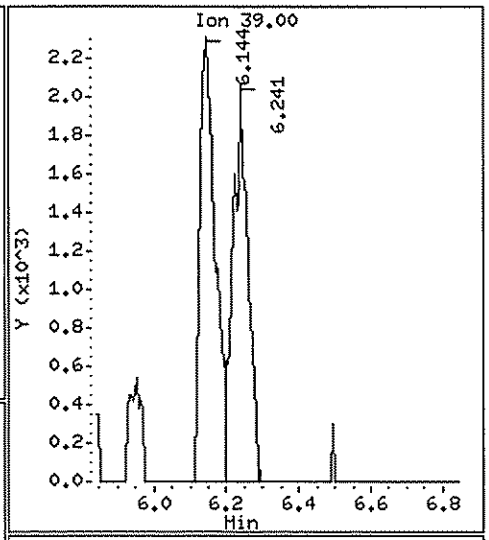
32 3-Chloropropene Concentration: 0.8970 ppb(v/v)

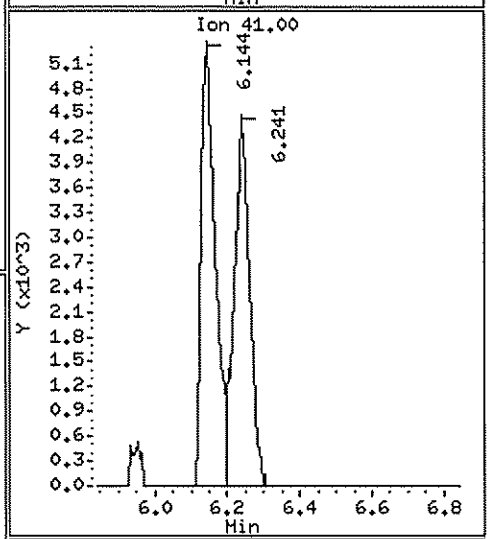


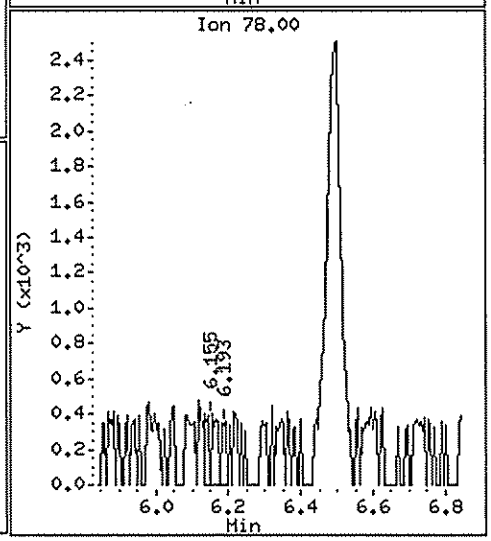












Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d

Date : 17-APR-2007 20:41

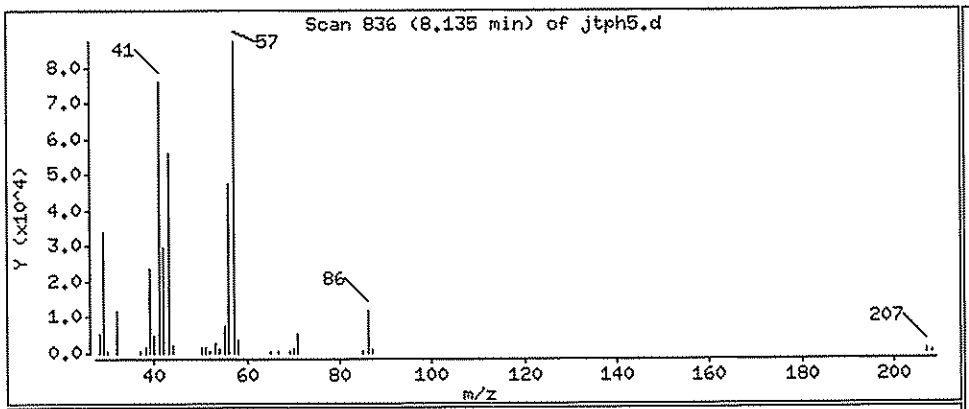
Client ID: SV-13(S.S) Instrument: mj.i

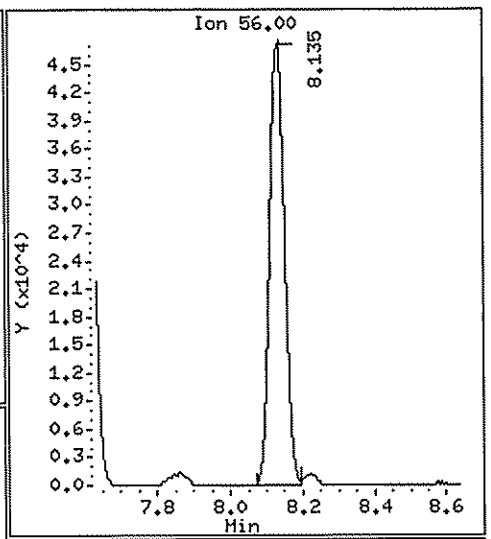
Sample Info: JTPH51AD,10,0,,,

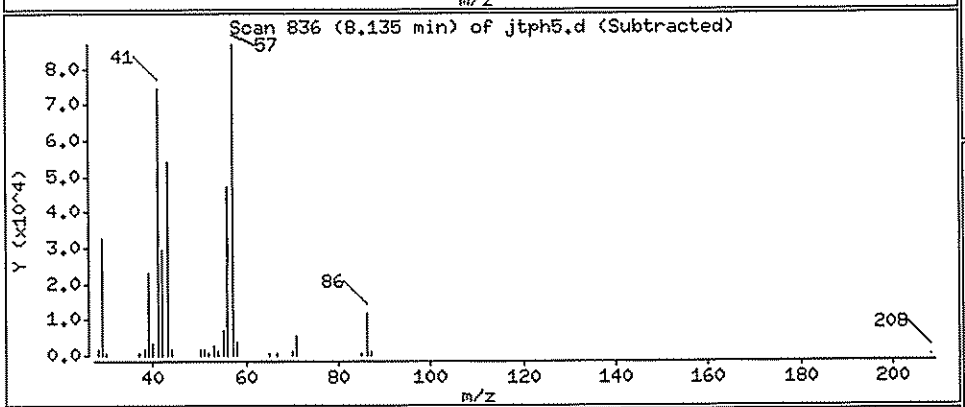
Purge Volume: 500.0 Operator: 7126

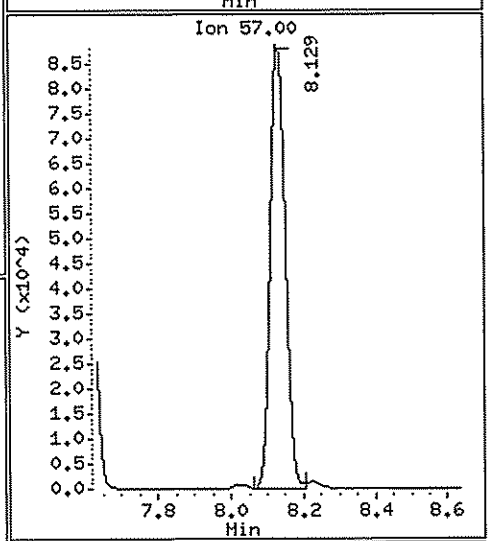
Column phase: Rtx-5 Column diameter: 0.32

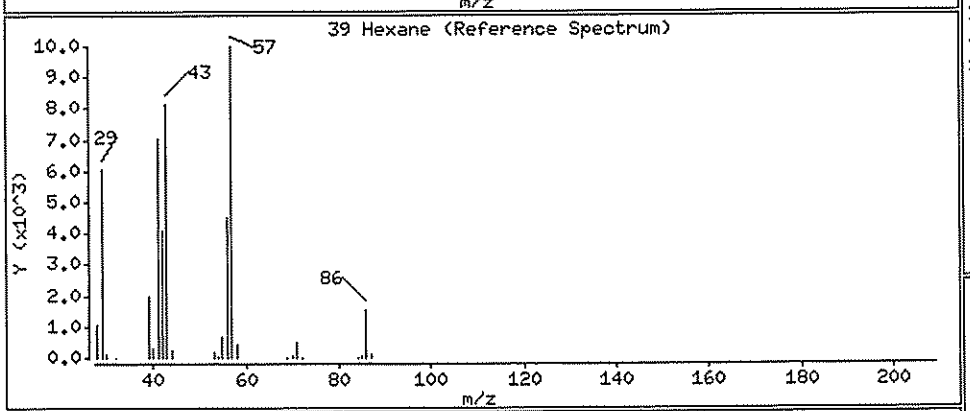
39 Hexane Concentration: 25.02 ppb(v/v)

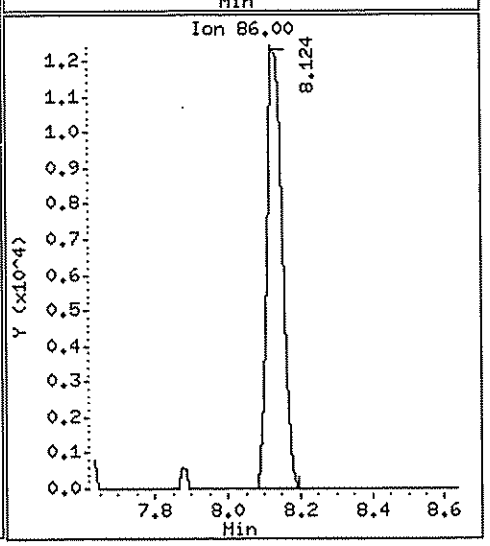


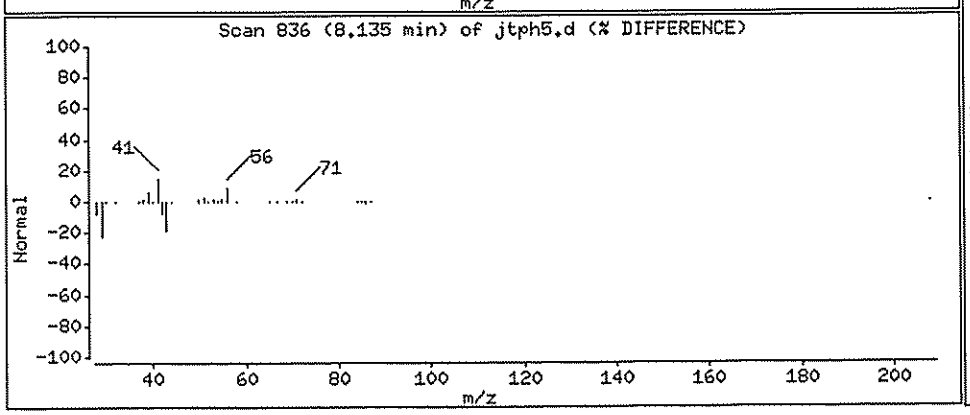












Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d

Date : 17-APR-2007 20:41

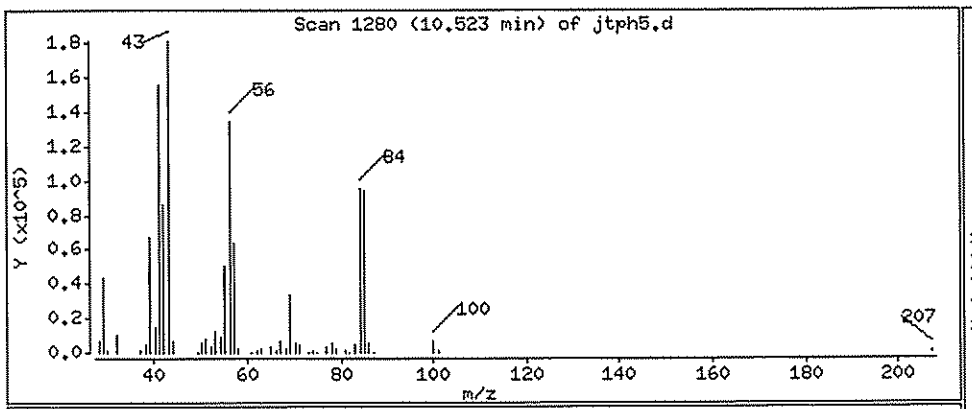
Client ID: SV-13(S.S) Instrument: mj.i

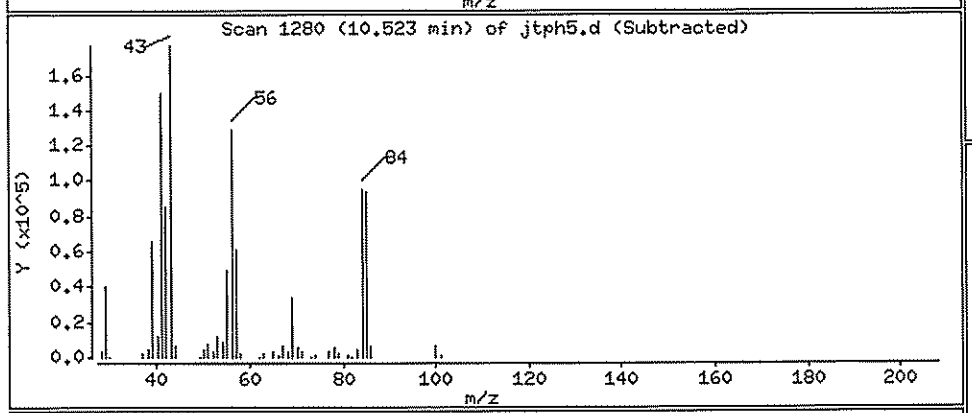
Sample Info: JTPH51AD,10,0,,,

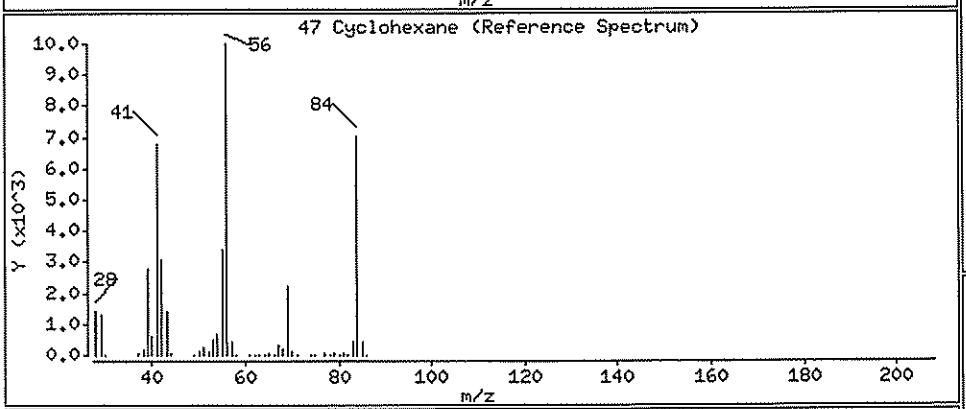
Purge Volume: 500.0 Operator: 7126

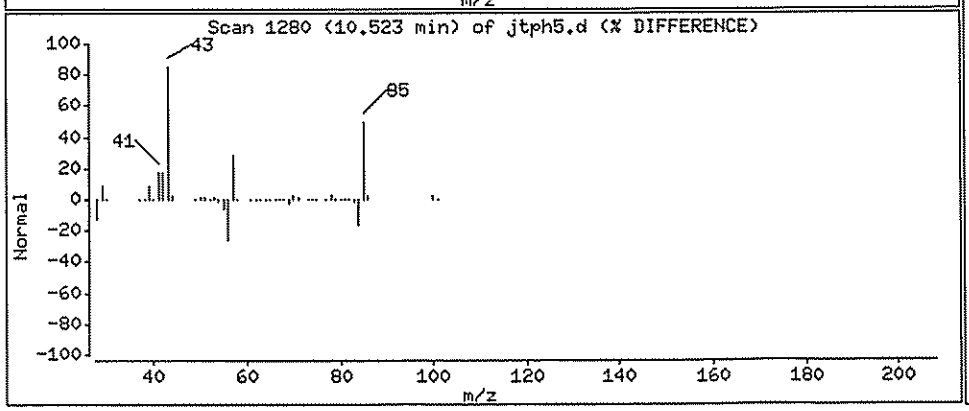
Column phase: Rtx-5 Column diameter: 0.32

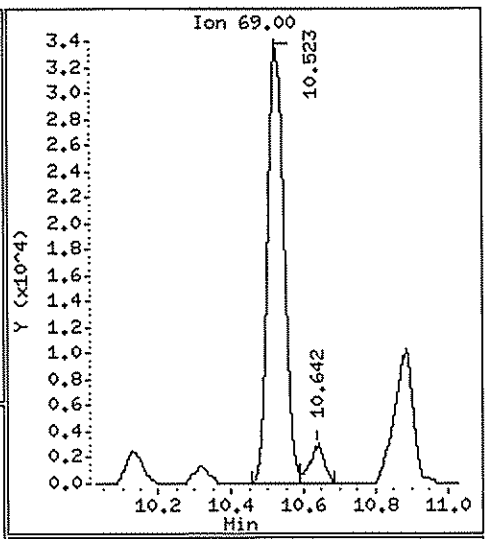
47 Cyclohexane Concentration: 28.21 ppb(v/v)

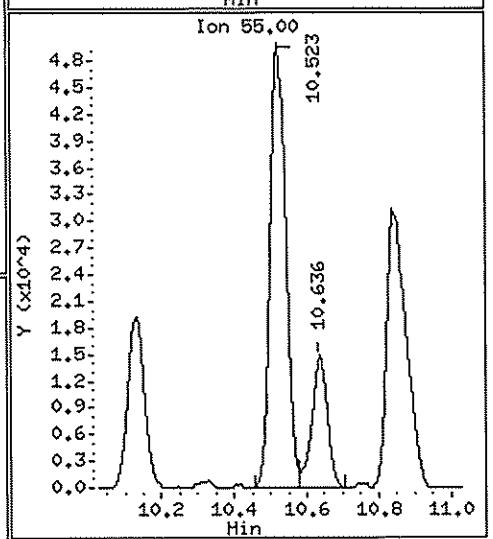


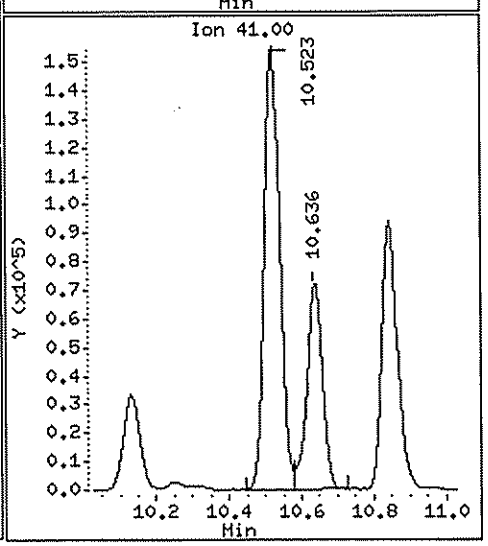












Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d

Date : 17-APR-2007 20:41

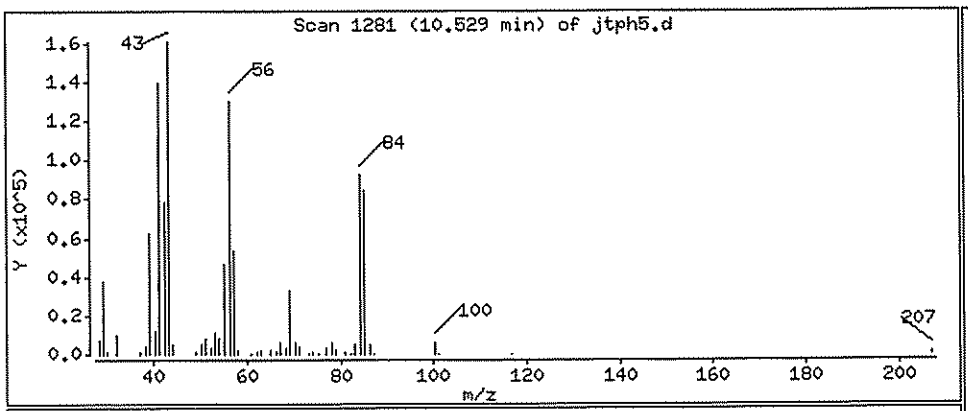
Client ID: SV-13(S,S) Instrument: mj.i

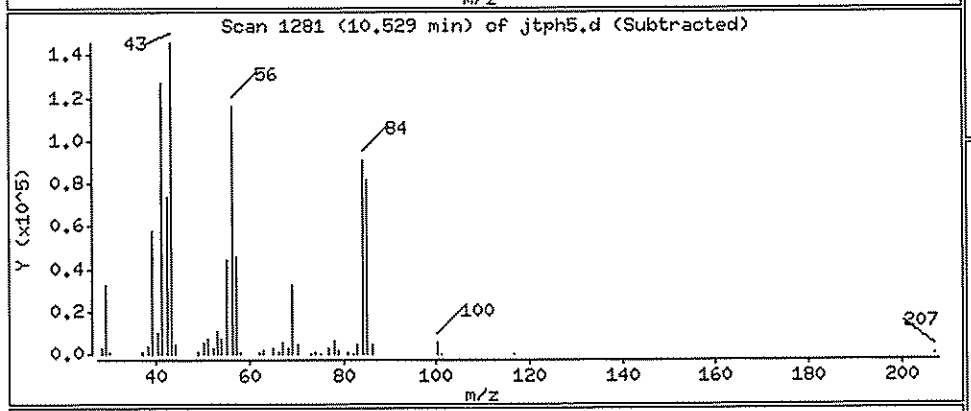
Sample Info: JTPH51AD,10,0,,,

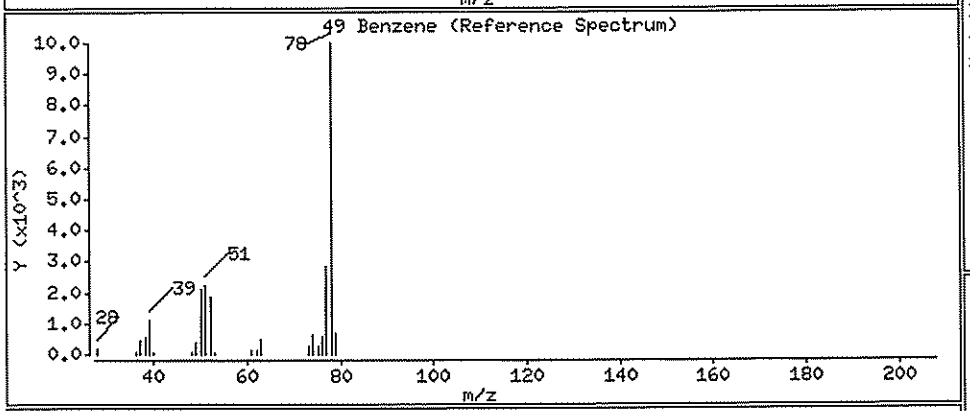
Purge Volume: 500.0 Operator: 7126

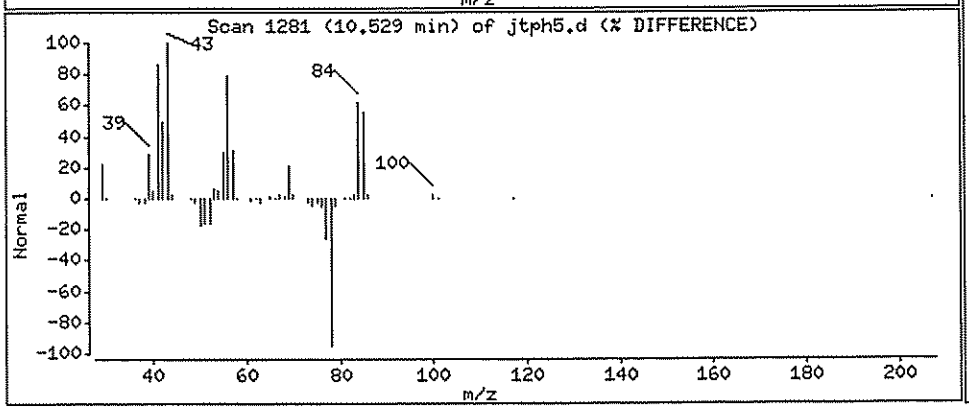
Column phase: Rtx-5 Column diameter: 0.32

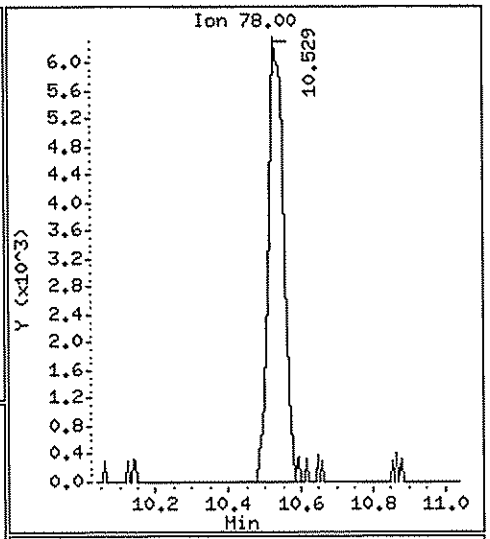
49 Benzene Concentration: 0.8978 ppb(v/v)

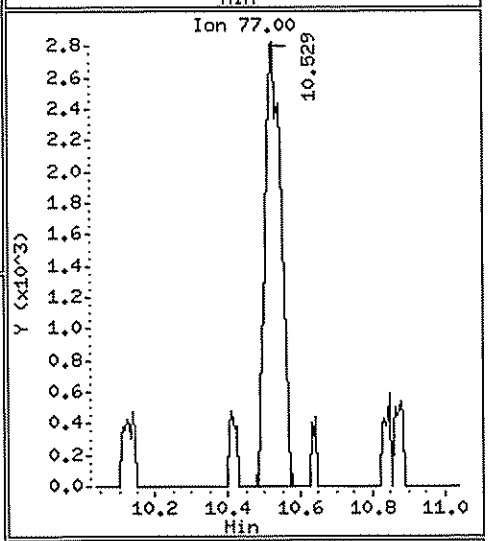


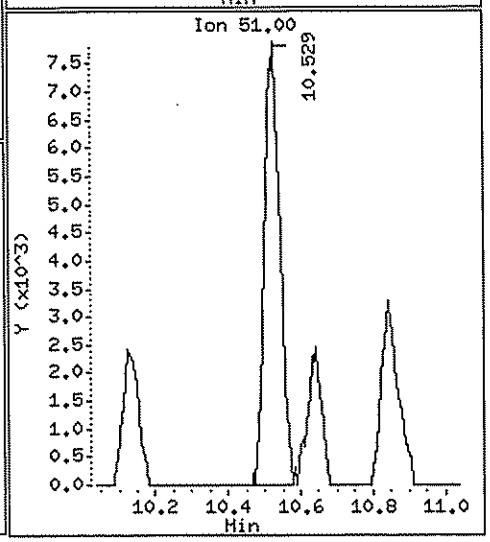












Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d

Date : 17-APR-2007 20:41

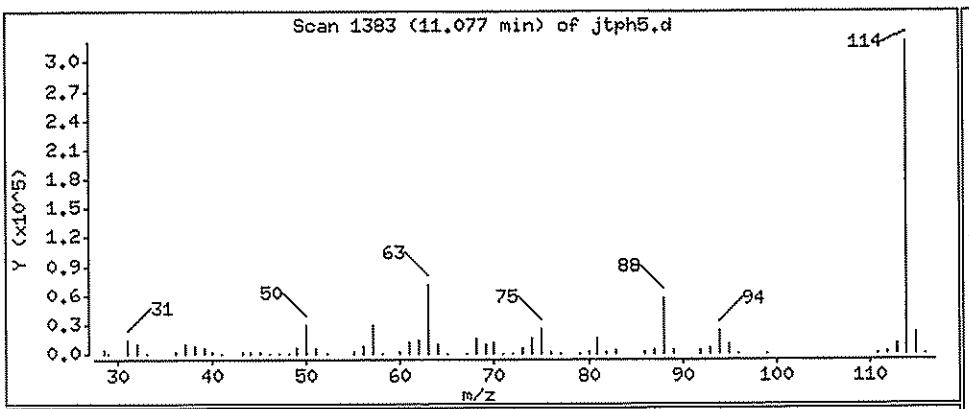
Client ID: SV-13(S.S) Instrument: mj.i

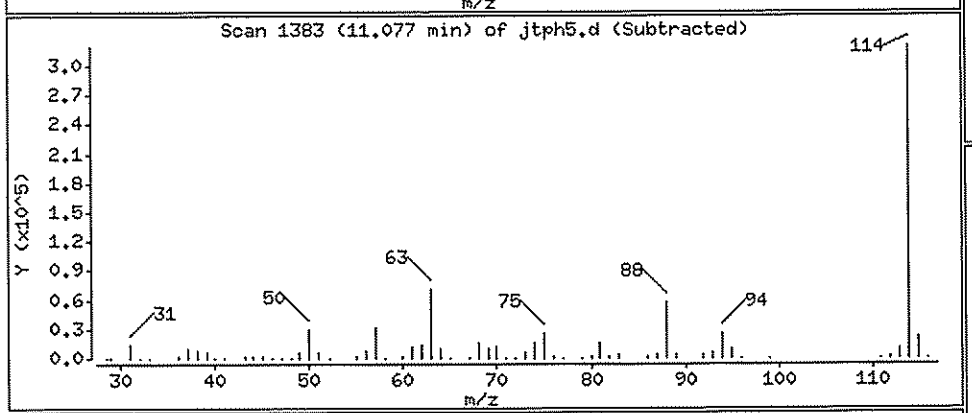
Sample Info: JTPH51AD,10,0,,,

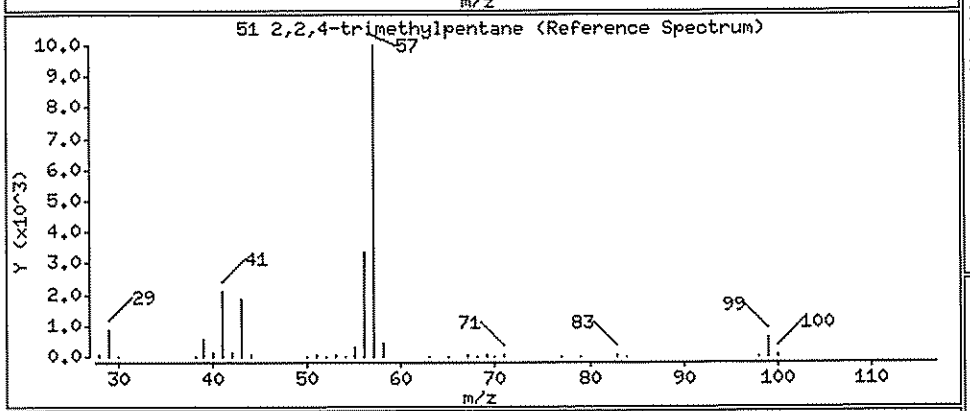
Purge Volume: 500.0 Operator: 7126

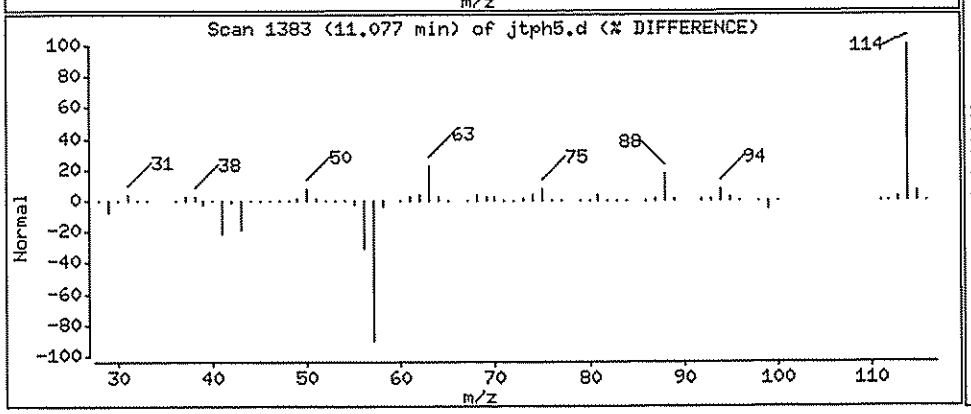
Column phase: Rtx-5 Column diameter: 0.32

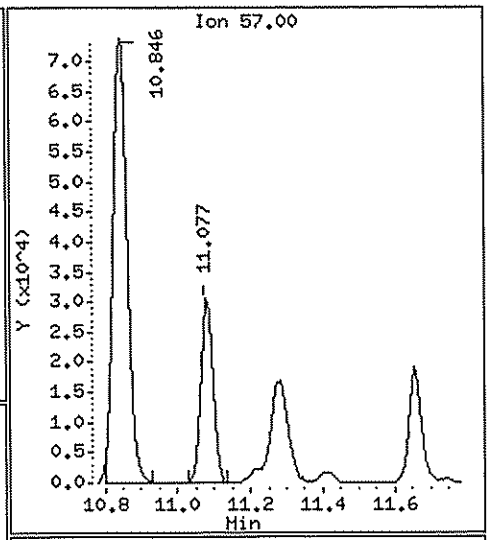
51 2,2,4-trimethylpentane Concentration: 2.226 ppb(v/v)

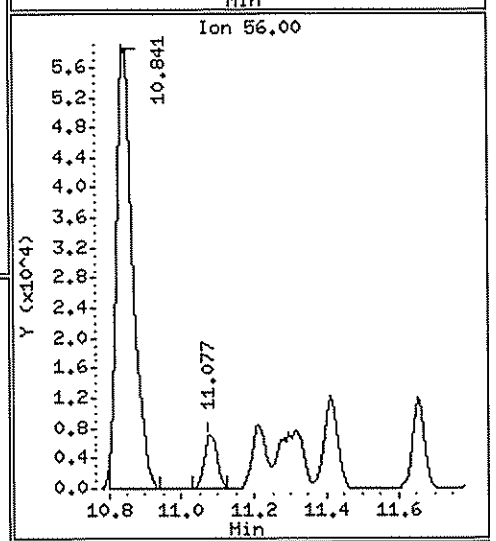


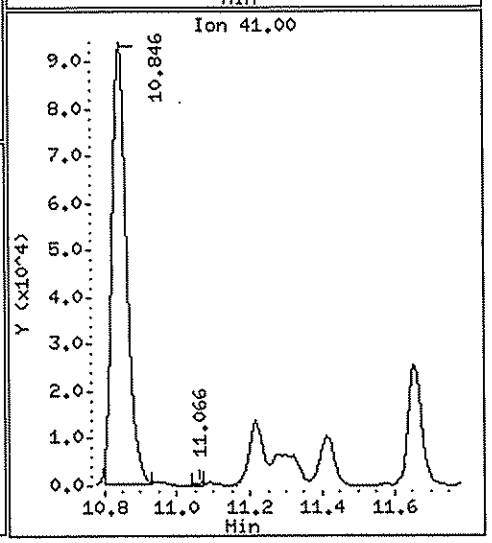












Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d

Date : 17-APR-2007 20:41

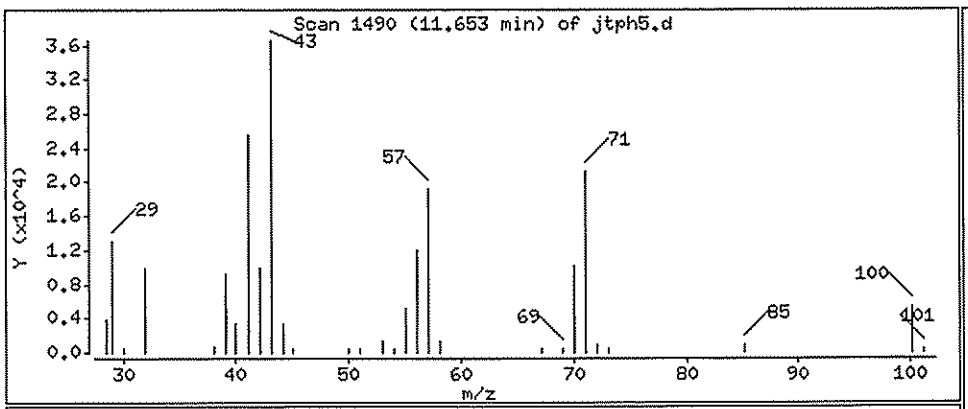
Client ID: SV-13(S.S) Instrument: mj.i

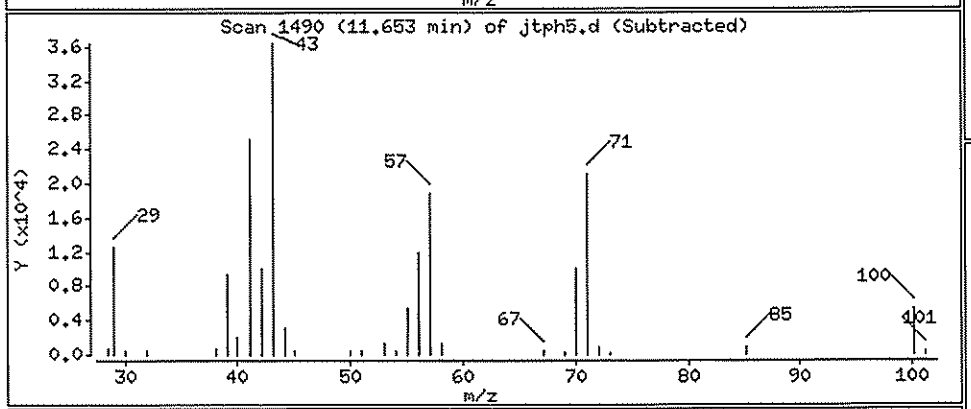
Sample Info: JTPH51AD,10,0,,,

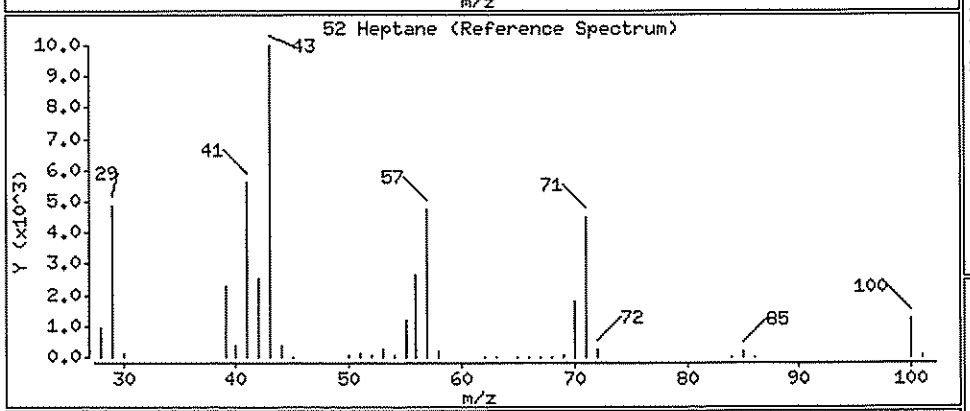
Purge Volume: 500.0 Operator: 7126

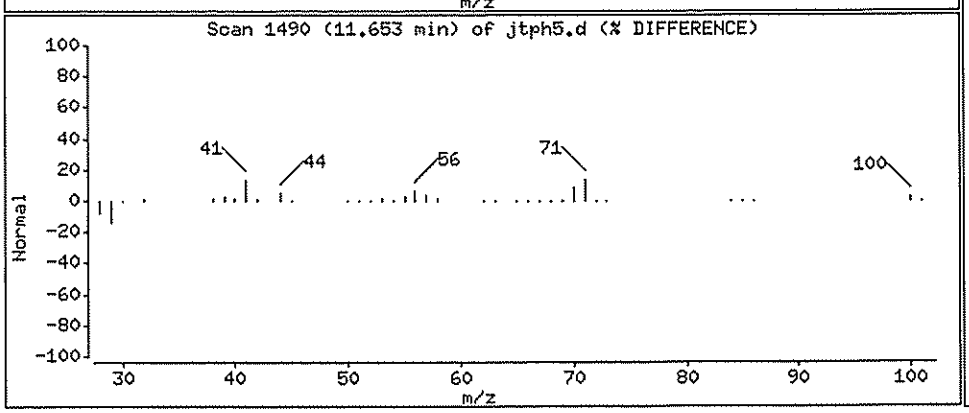
Column phase: Rtx-5 Column diameter: 0.32

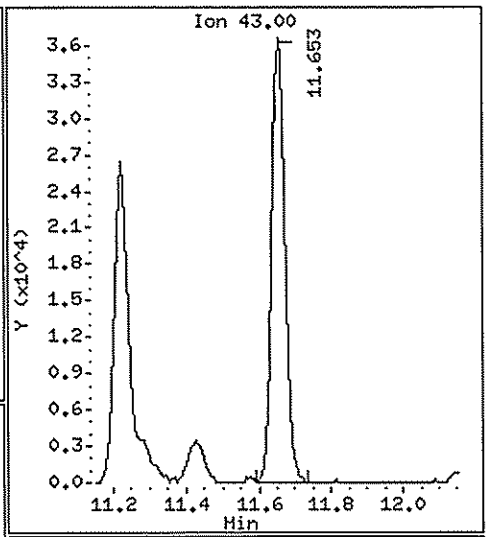
52 Heptane Concentration: 7.444 ppb(v/v)

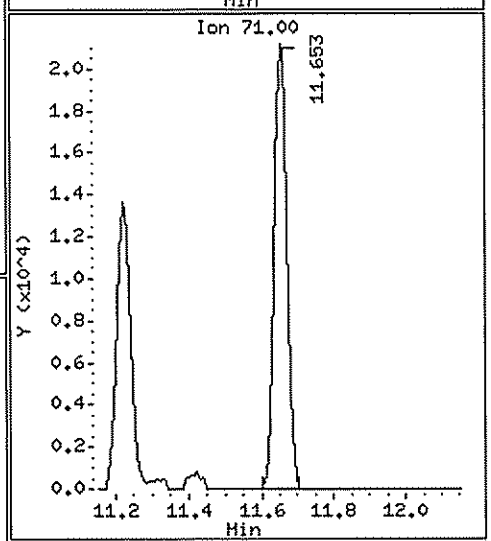


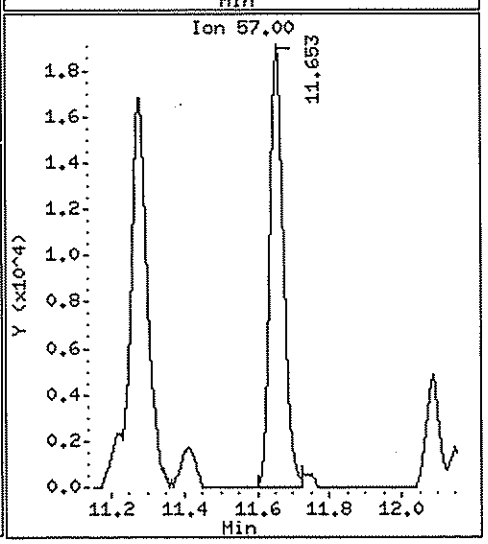












Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d

Date : 17-APR-2007 20:41

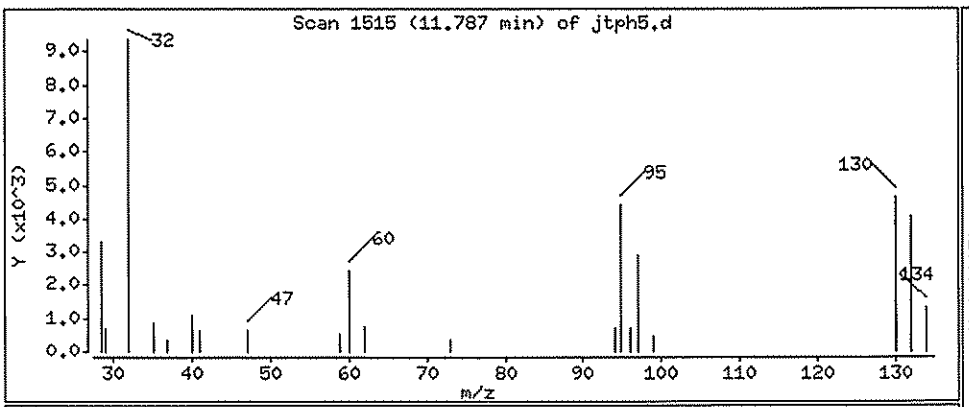
Client ID: SV-13(S.S) Instrument: mj.i

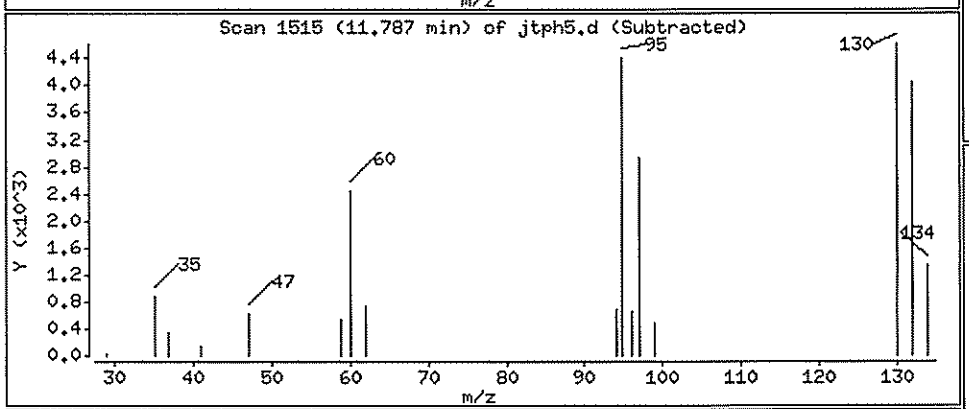
Sample Info: JTPH51AD,10,0,,,

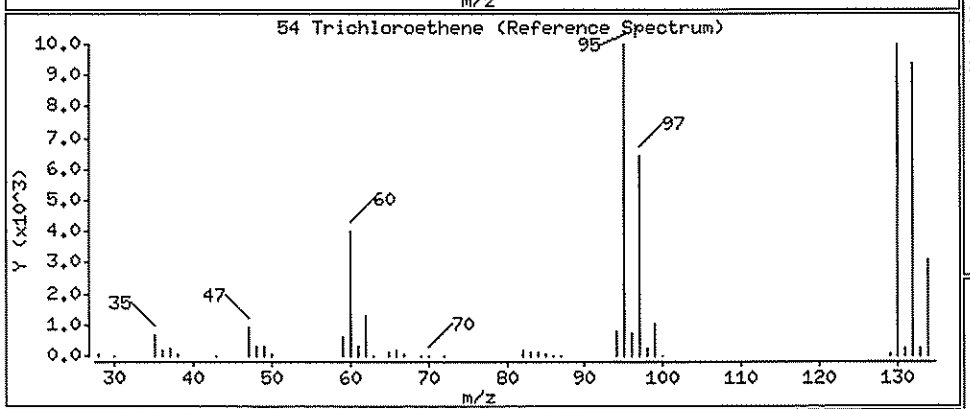
Purge Volume: 500.0 Operator: 7126

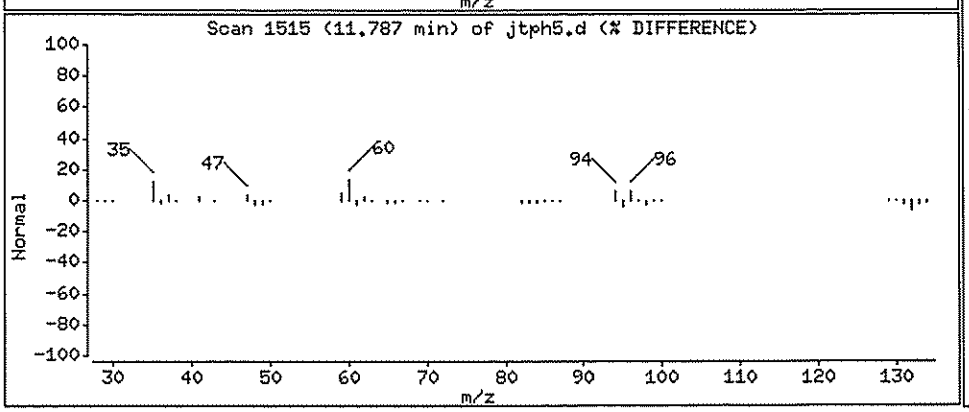
Column phase: Rtx-5 Column diameter: 0.32

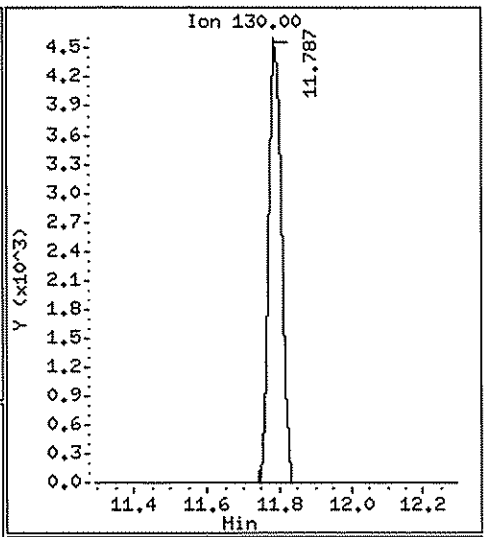
54 Trichloroethene Concentration: 0.8894 ppb(v/v)

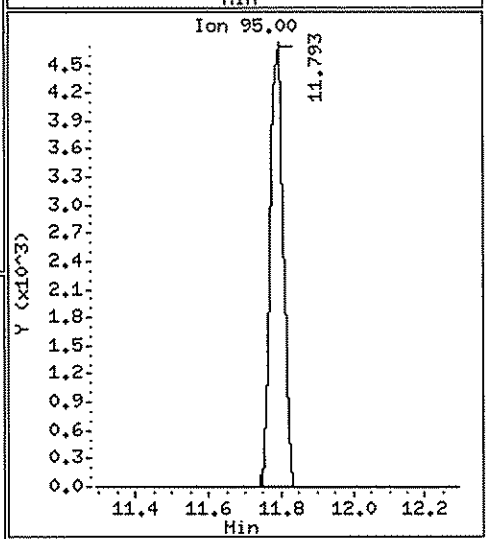


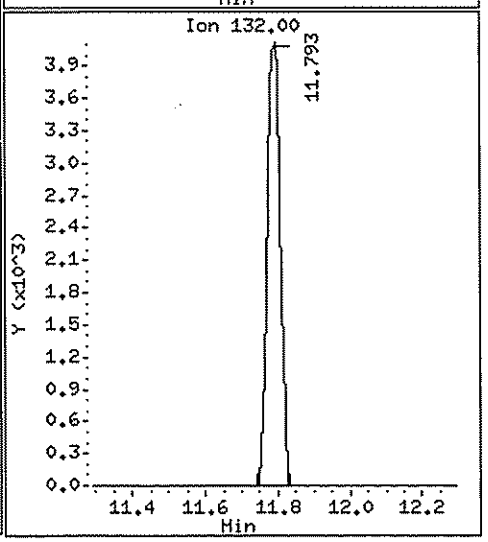












Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d

Date : 17-APR-2007 20:41

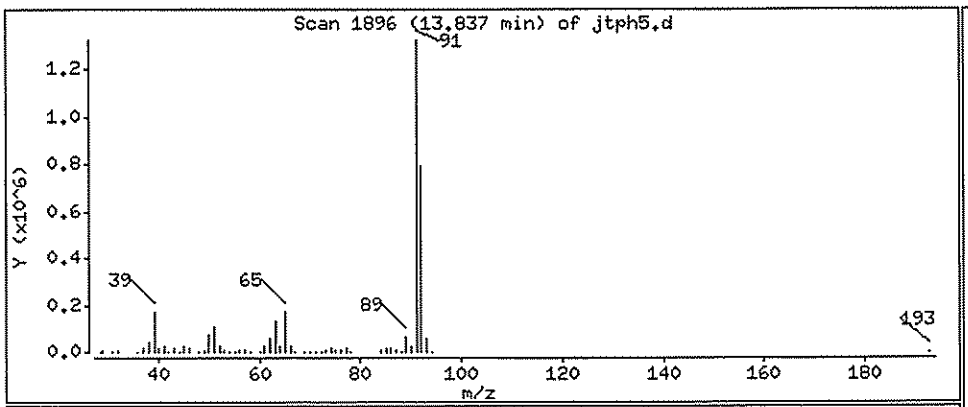
Client ID: SV-13(S.S) Instrument: mj.i

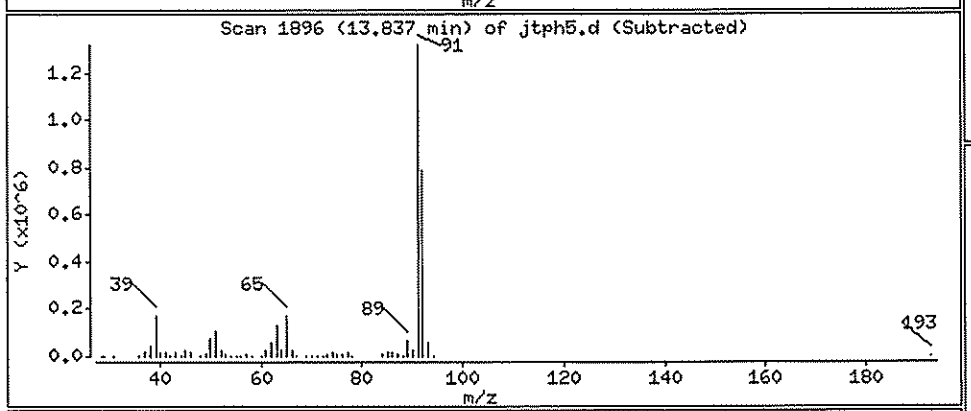
Sample Info: JTPH51AD,10,0,,,

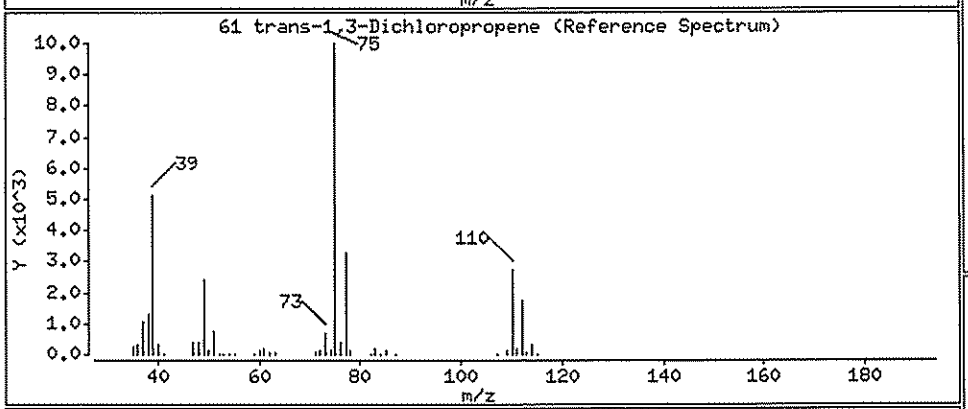
Purge Volume: 500.0 Operator: 7126

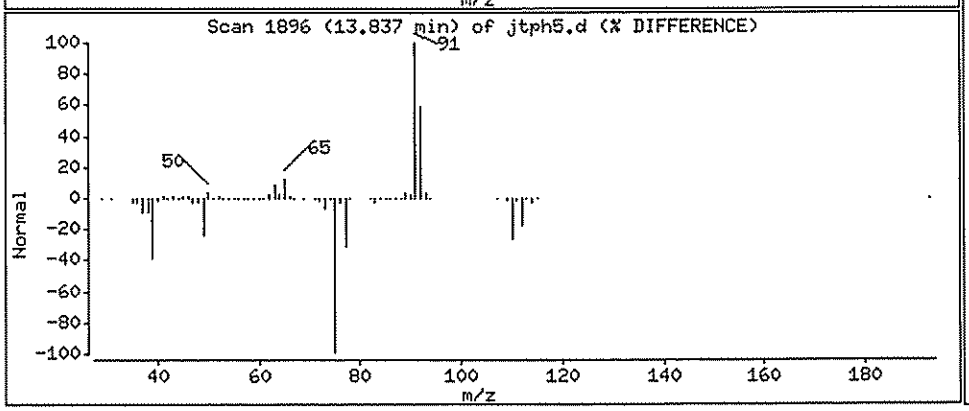
Column phase: Rtx-5 Column diameter: 0.32

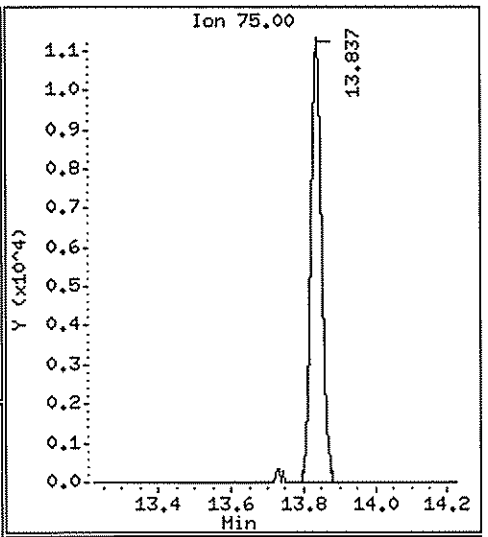
61 trans-1,3-Dichloropropene Concentration: 2.327 ppb(v/v)

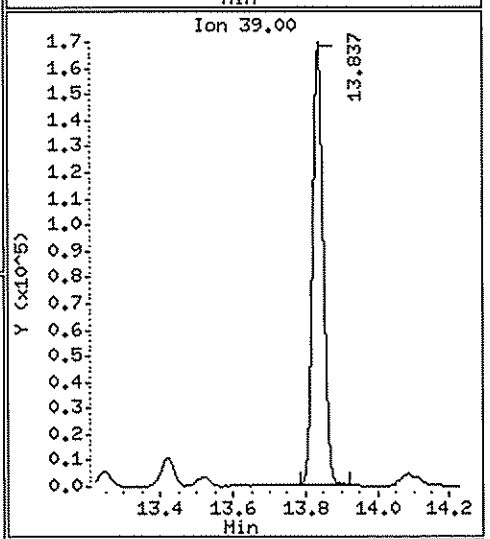


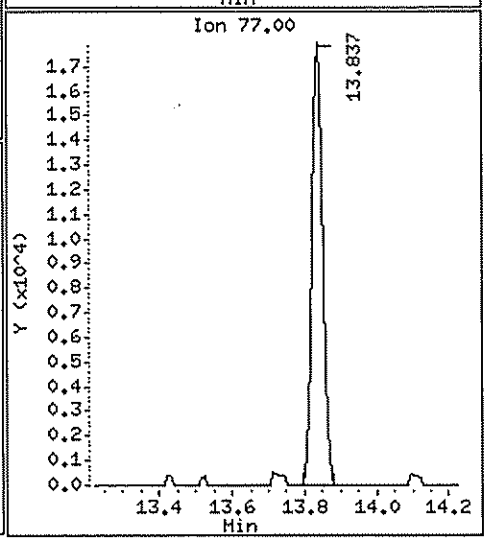












Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d

Date : 17-APR-2007 20:41

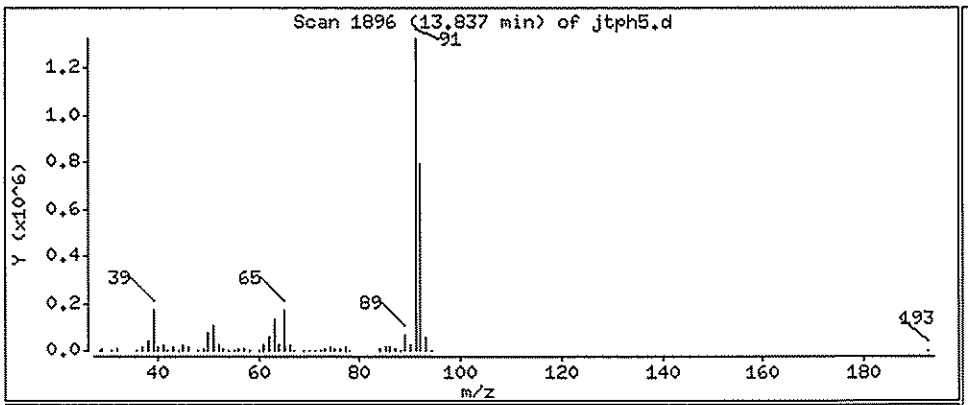
Client ID: SV-13(S.S) Instrument: mj.i

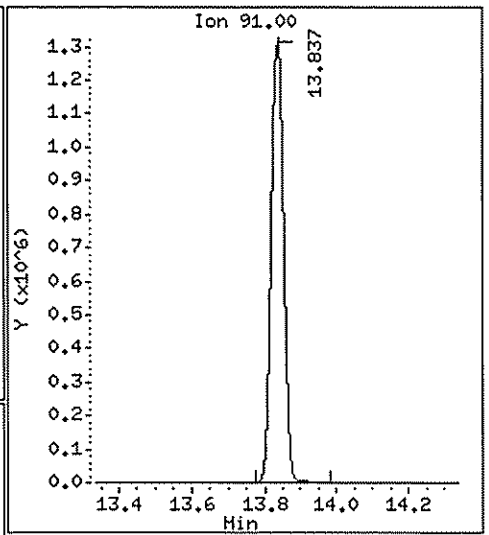
Sample Info: JTPH51AD,10,0,,,

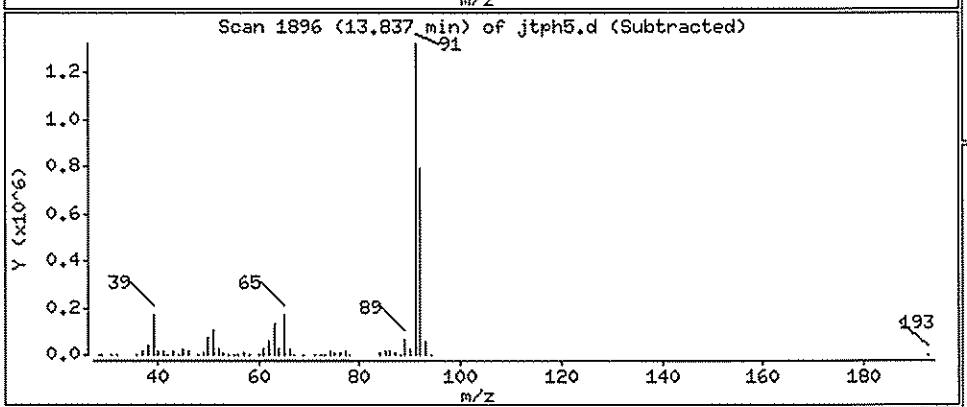
Purge Volume: 500.0 Operator: 7126

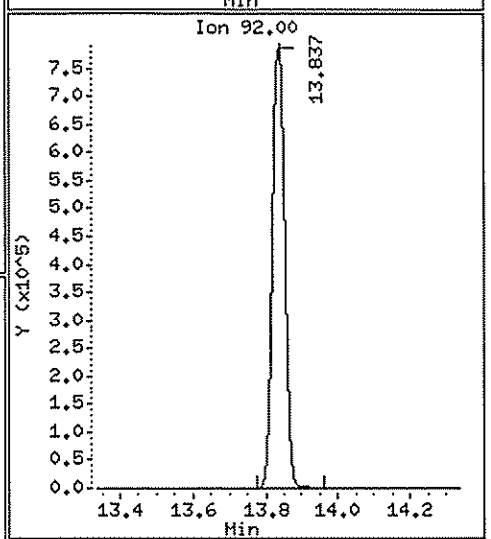
Column phase: Rtx-5 Column diameter: 0.32

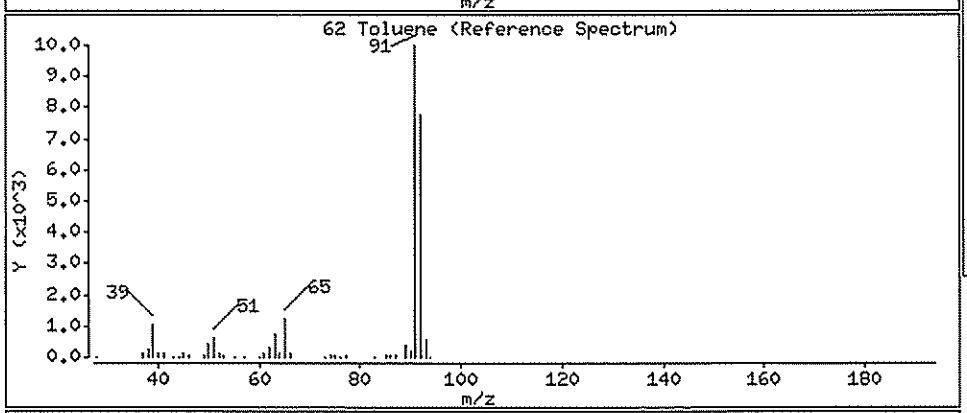
62 Toluene Concentration: 159.2 ppb(v/v)

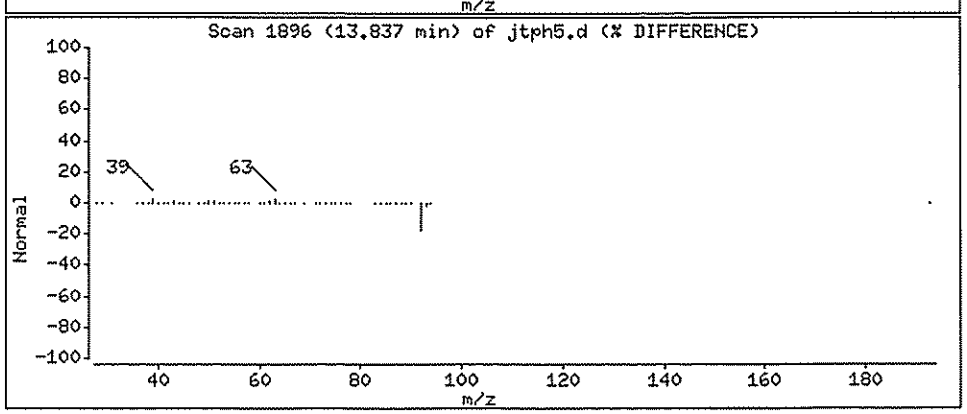












Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d

Date : 17-APR-2007 20:41

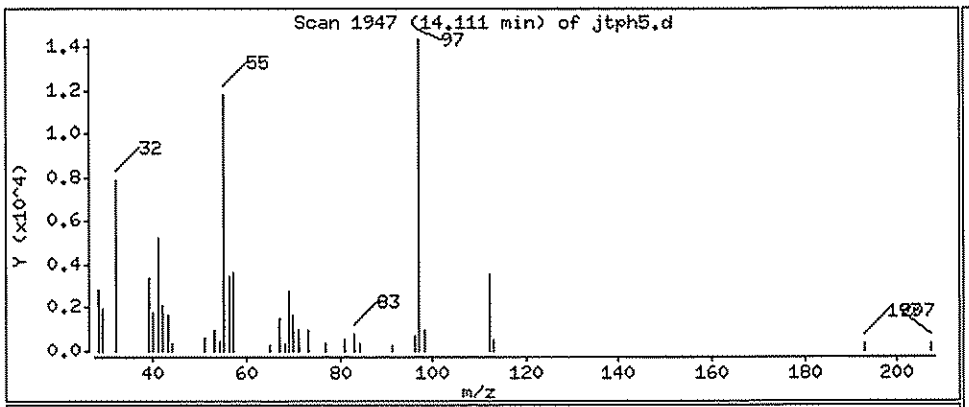
Client ID: SV-13(S.S) Instrument: mj.i

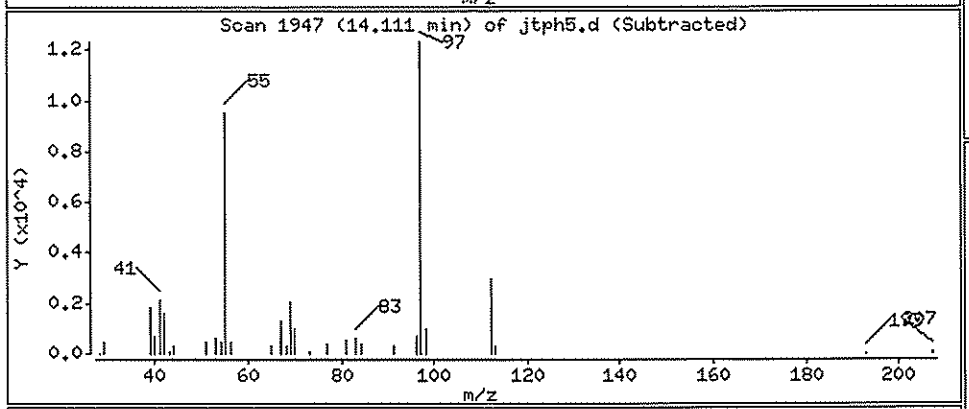
Sample Info: JTPH51AD,10,0,,,

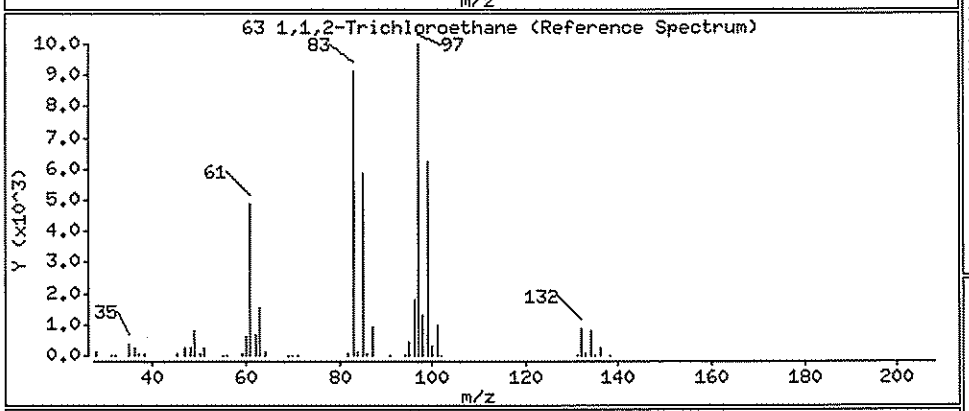
Purge Volume: 500.0 Operator: 7126

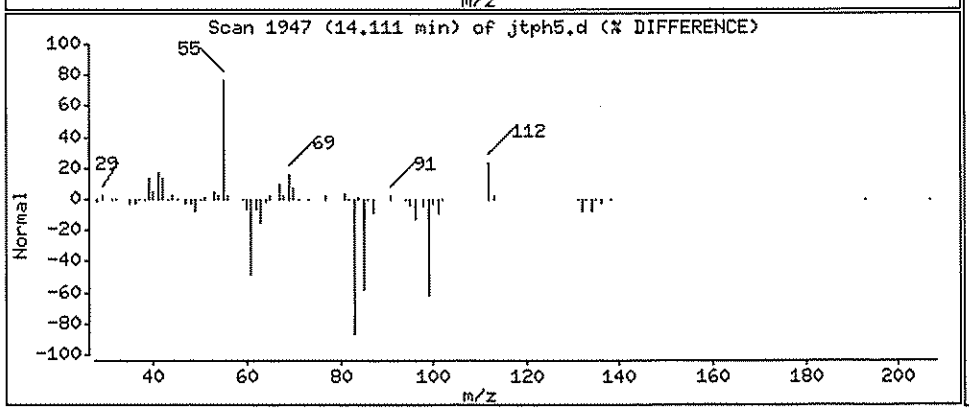
Column phase: Rtx-5 Column diameter: 0.32

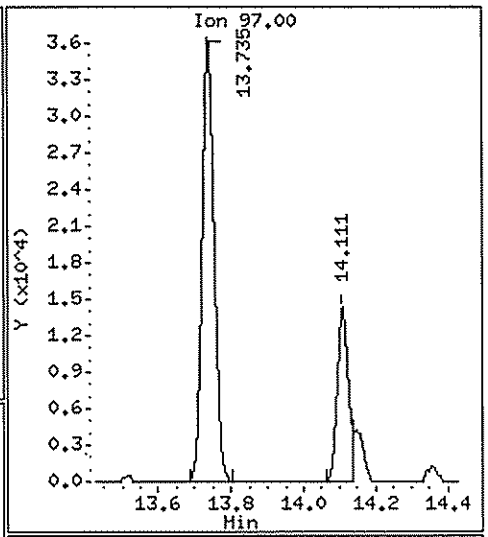
63 1,1,2-Trichloroethane Concentration: 4.941 ppb(v/v)

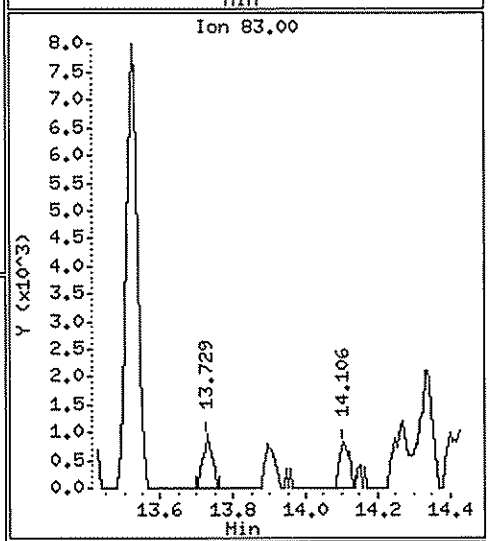


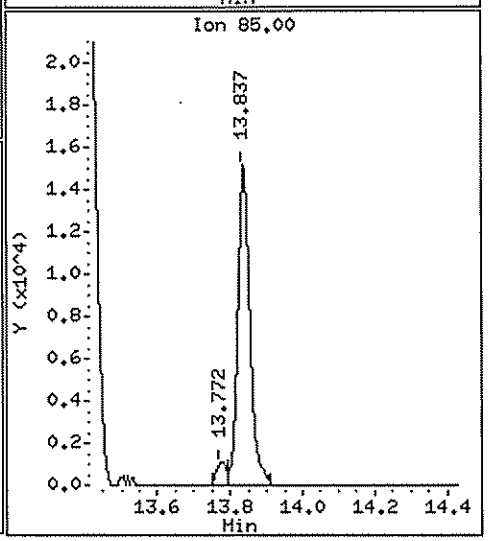












Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d

Date : 17-APR-2007 20:41

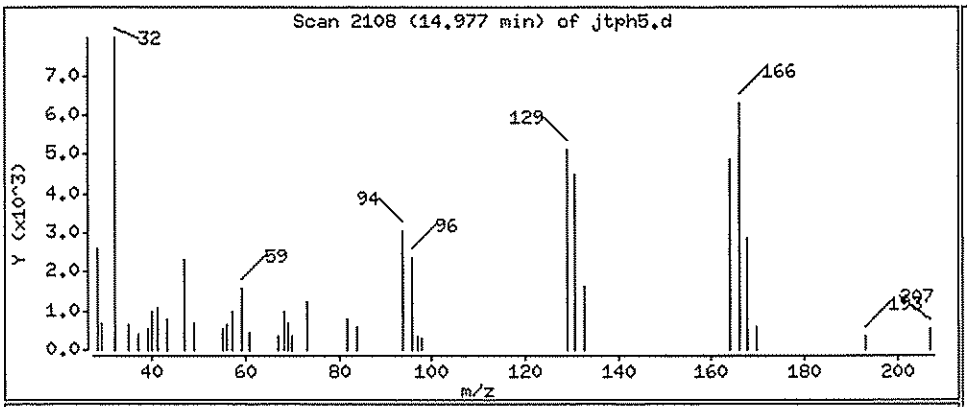
Client ID: SV-13(S.S) Instrument: mj.i

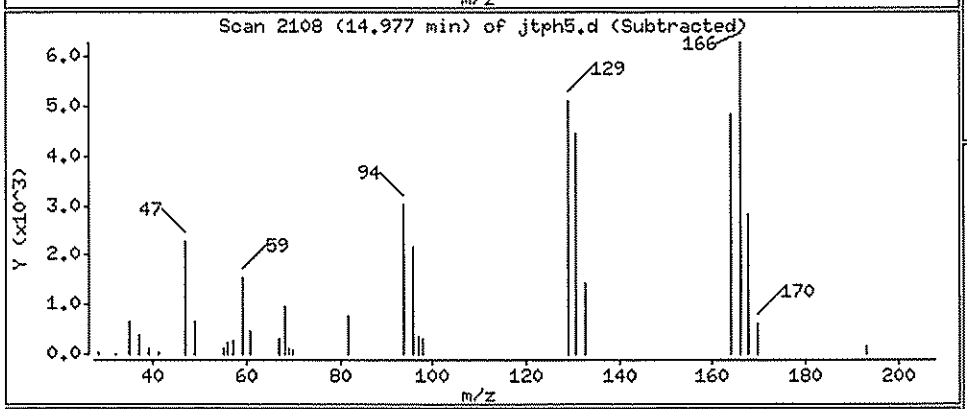
Sample Info: JTPH51AD,10,0,,,

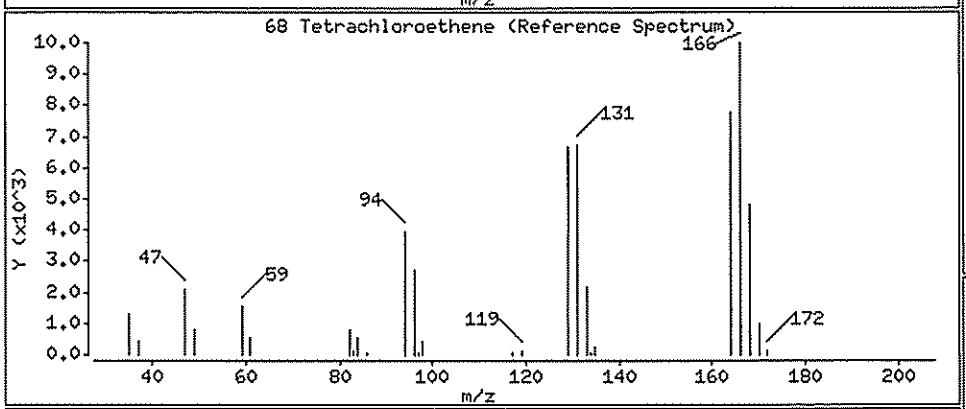
Purge Volume: 500.0 Operator: 7126

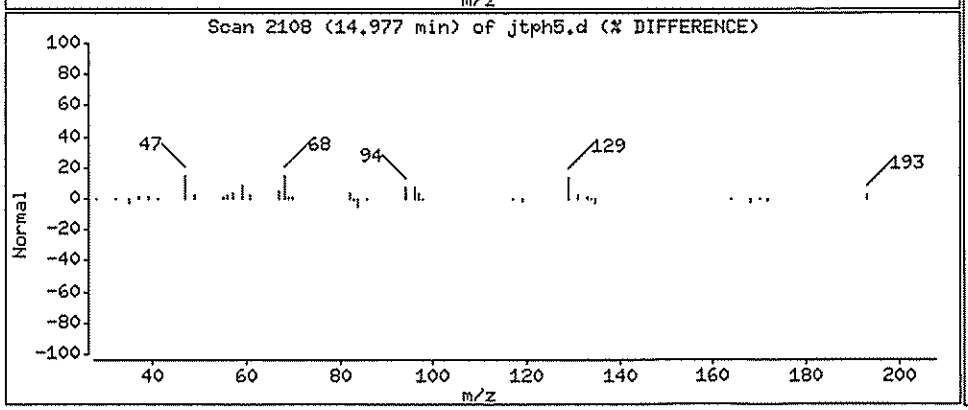
Column phase: Rtx-5 Column diameter: 0.32

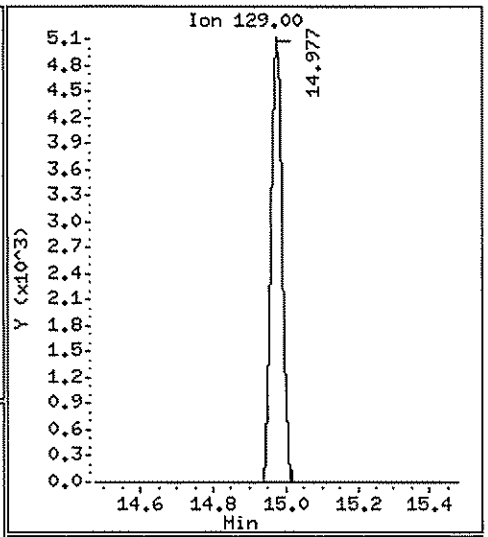
68 Tetrachloroethene Concentration: 1.157 ppb(v/v)

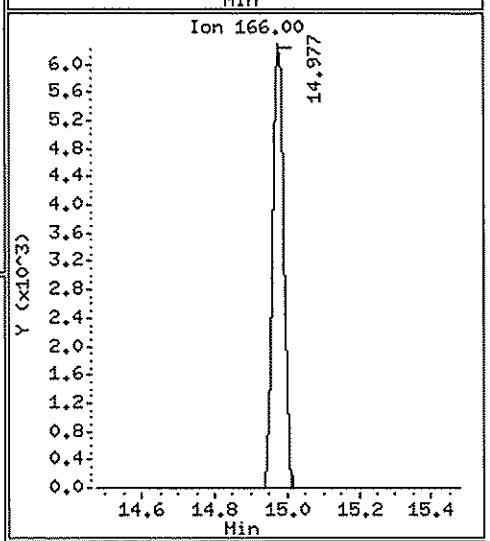


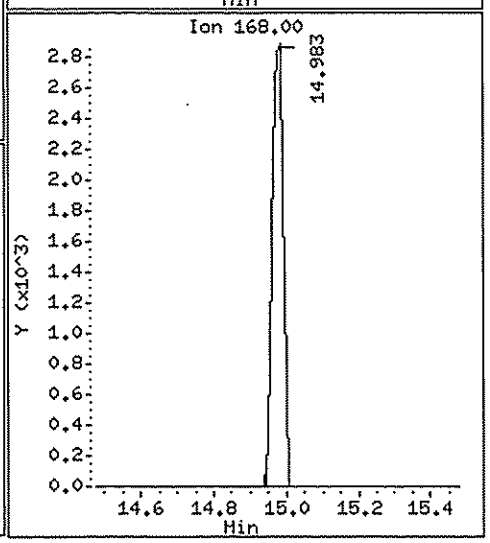












Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d

Date : 17-APR-2007 20:41

Client ID: SV-13(S.S)

Instrument: mj.i

Sample Info: JTPH51AD,10,0,,,

Purge Volume: 500.0

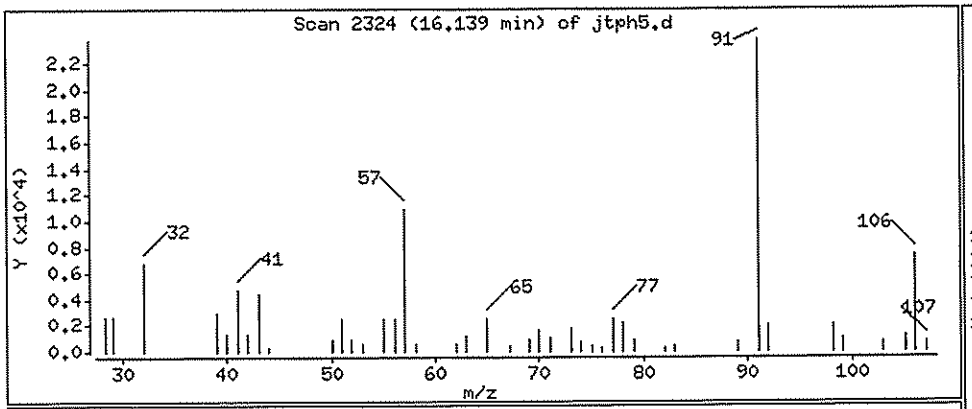
Operator: 7126

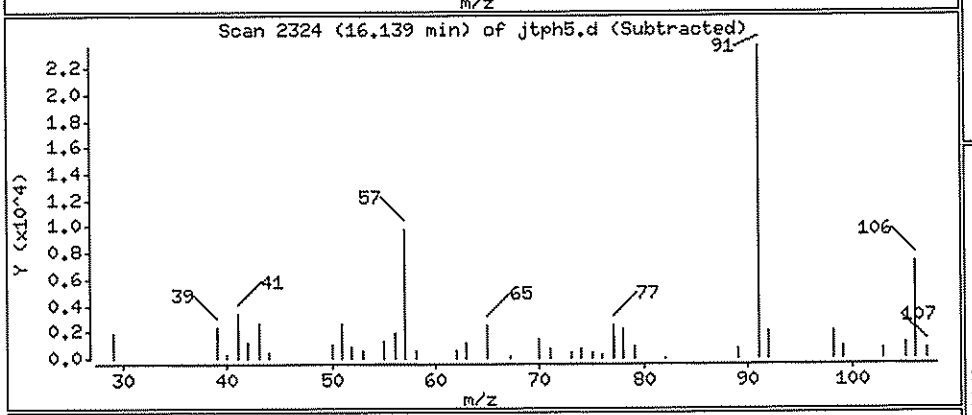
Column phase: Rtx-5

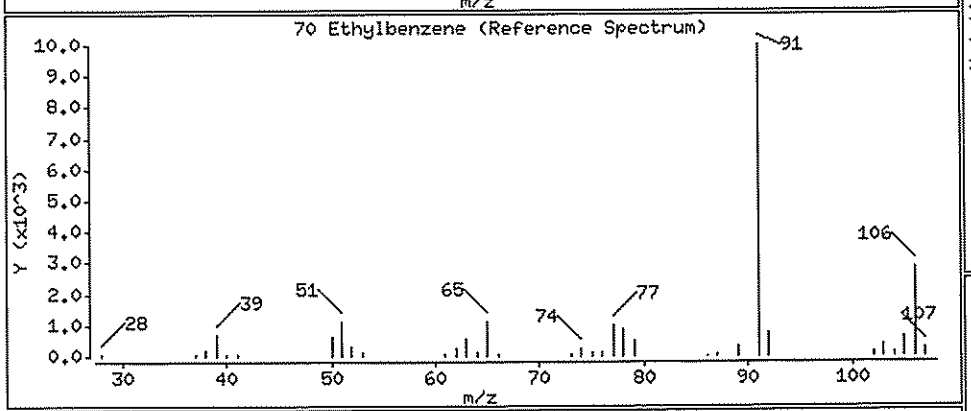
Column diameter: 0.32

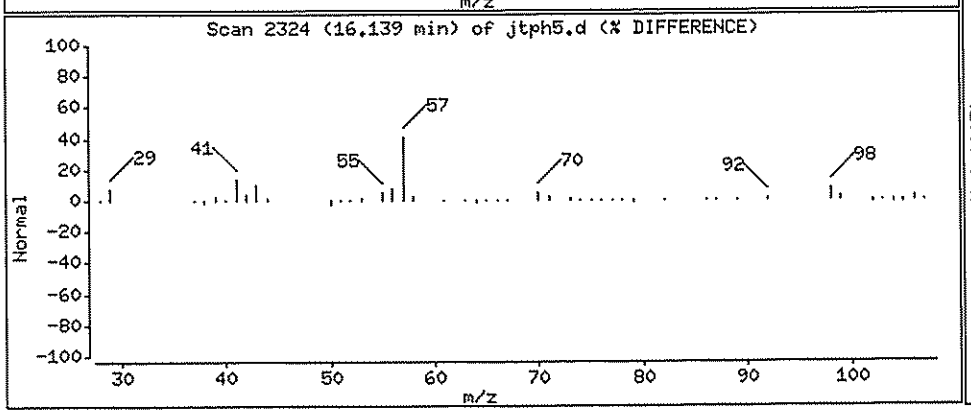
70 Ethylbenzene

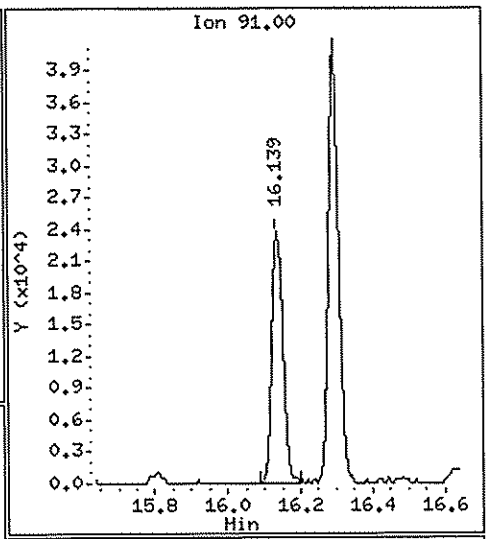
Concentration: 2.165 ppb(v/v)

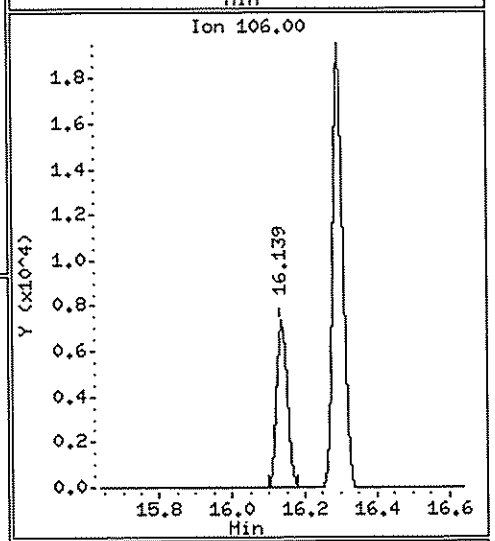


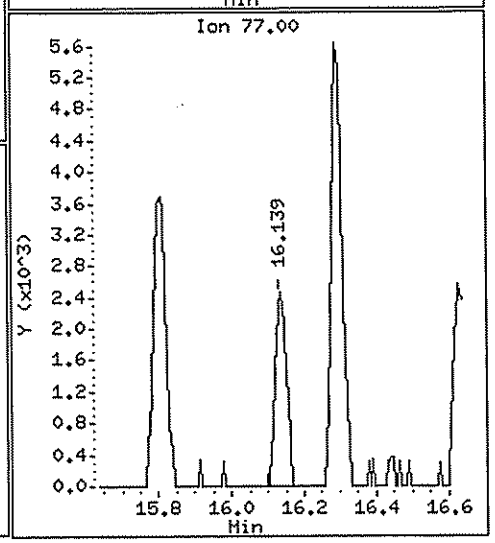












Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d

Date : 17-APR-2007 20:41

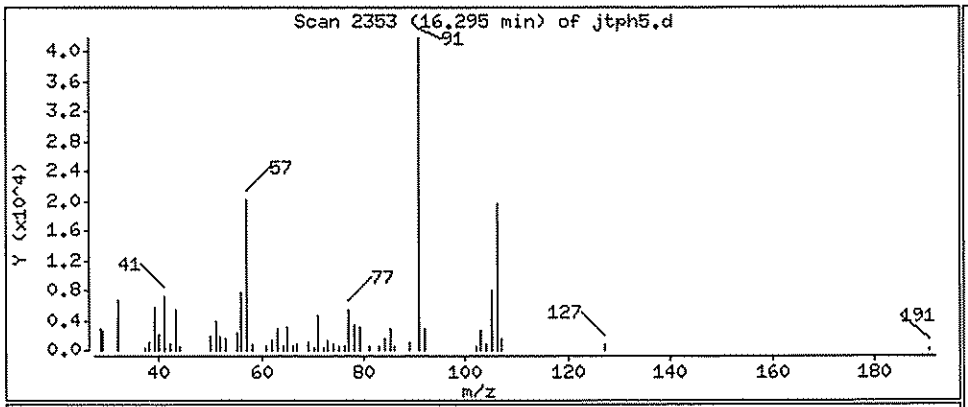
Client ID: SV-13(S.S) Instrument: mj.i

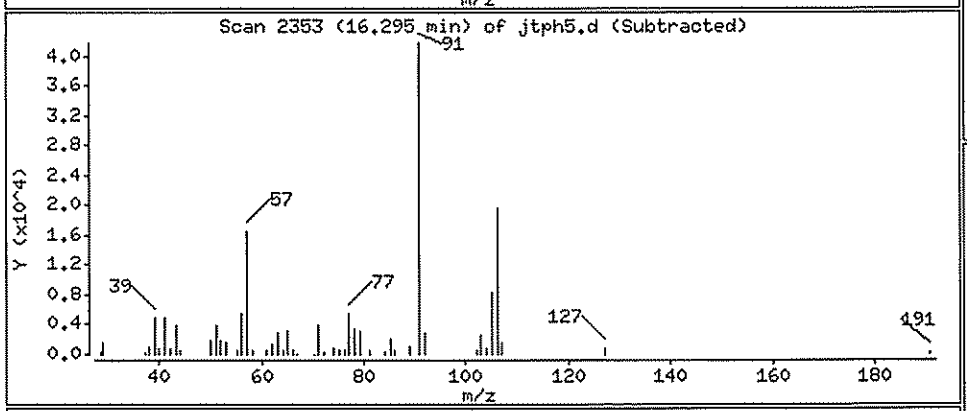
Sample Info: JTPH51AD,10,0,,,

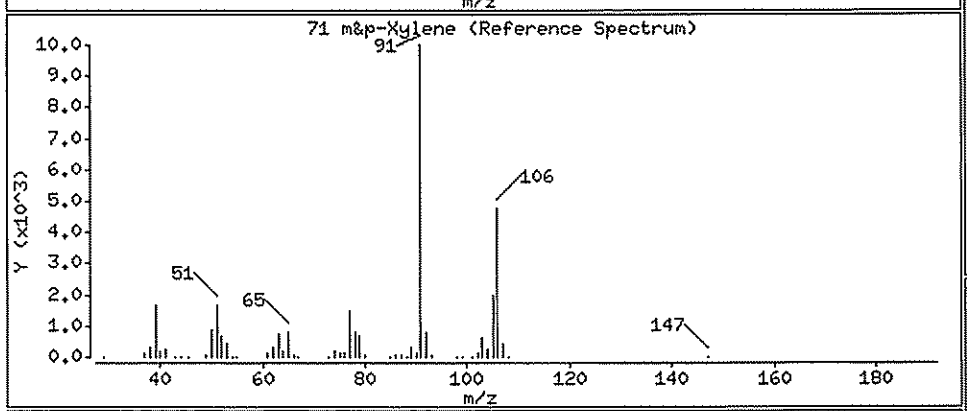
Purge Volume: 500.0 Operator: 7126

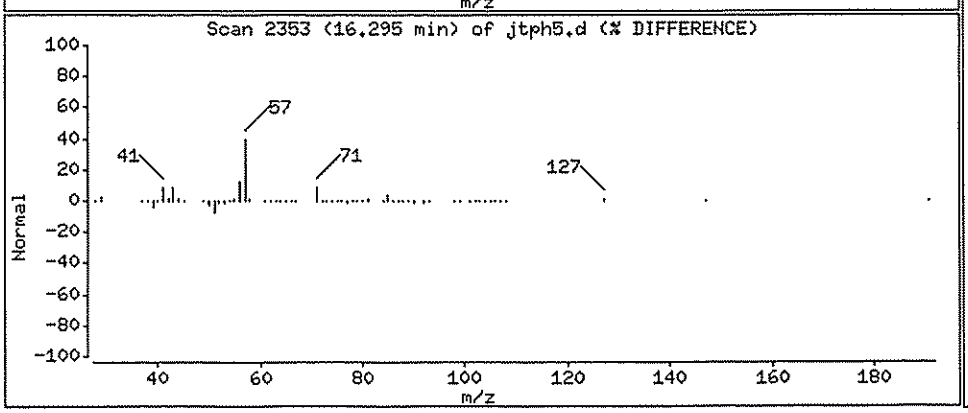
Column phase: Rtx-5 Column diameter: 0.32

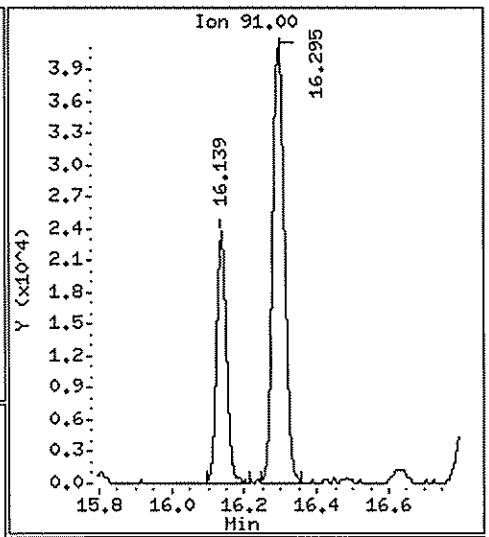
71 m&p-Xylene Concentration: 5.175 ppb(v/v)

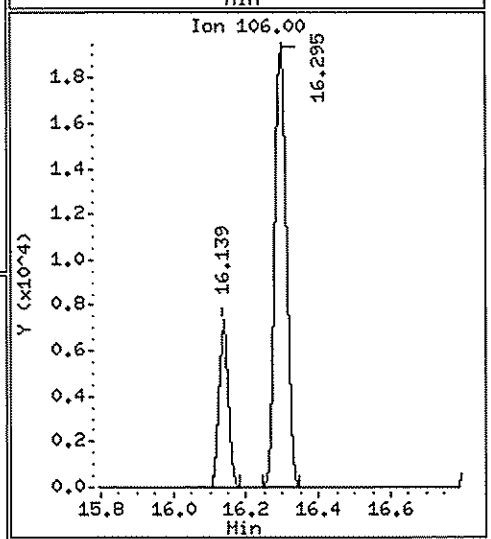


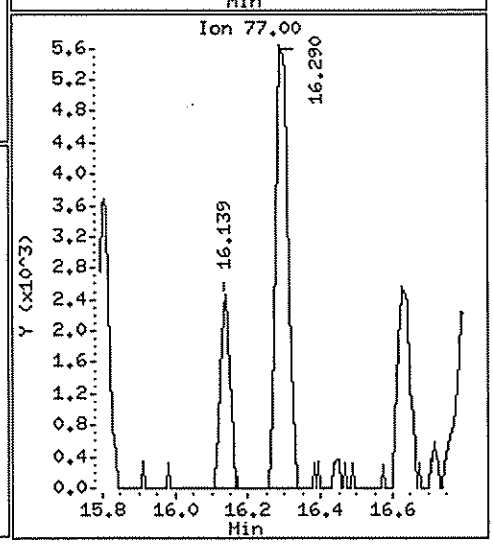












Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d

Date : 17-APR-2007 20:41

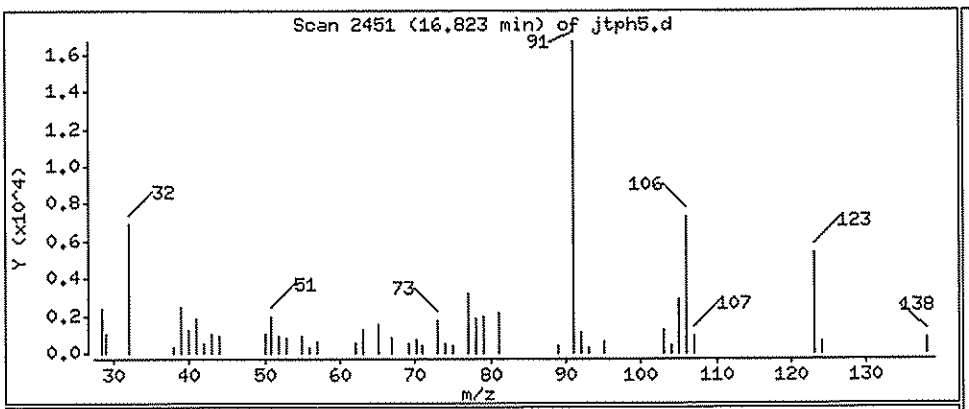
Client ID: SV-13(S.S) Instrument: mj.i

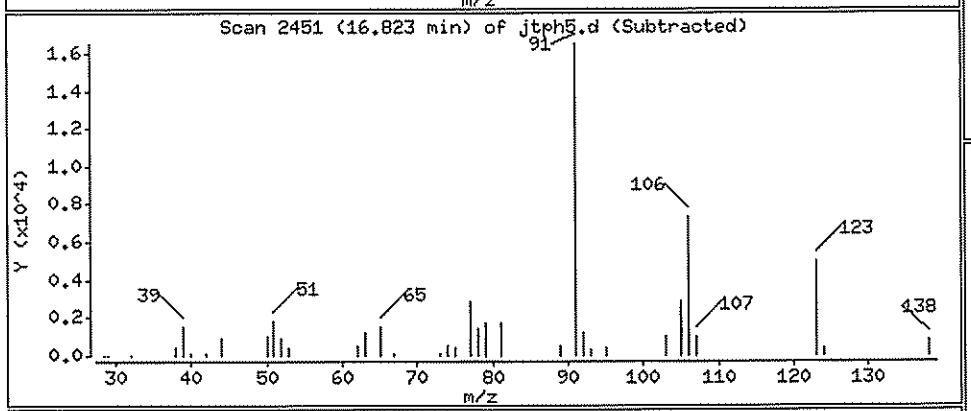
Sample Info: JTPH51AD,10,0,,,

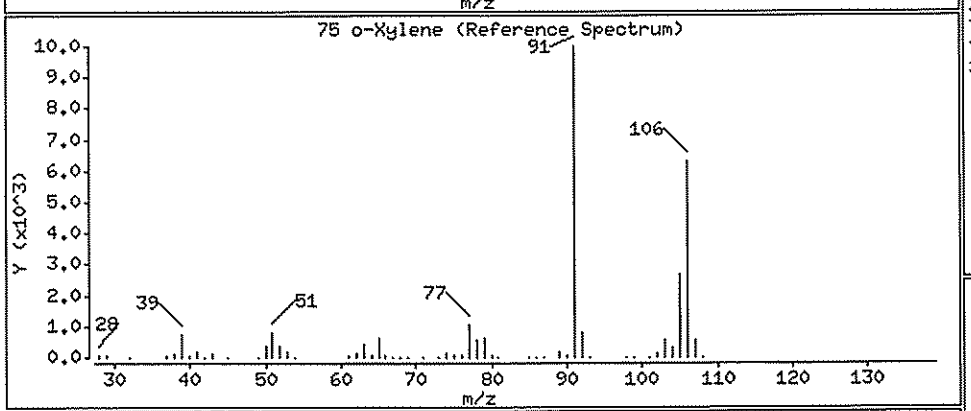
Purge Volume: 500.0 Operator: 7126

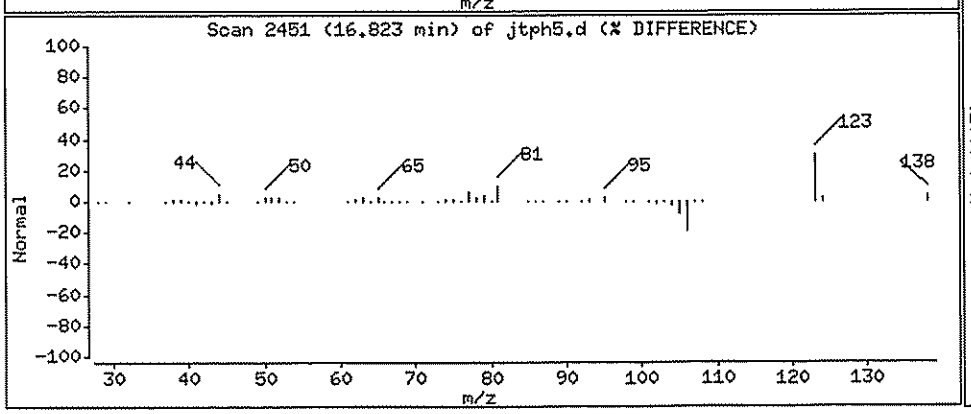
Column phase: Rtx-5 Column diameter: 0.32

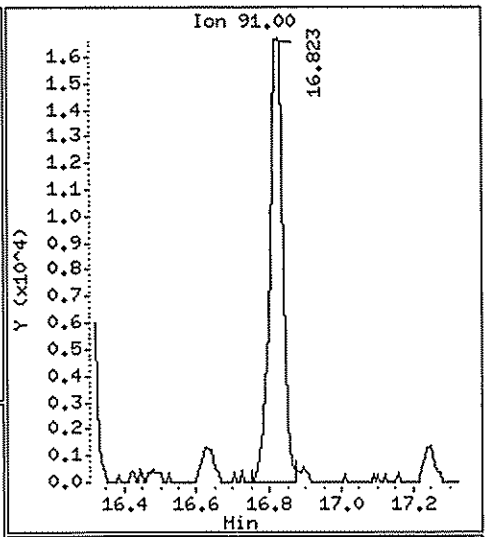
75 o-Xylene Concentration: 2.207 ppb(v/v)

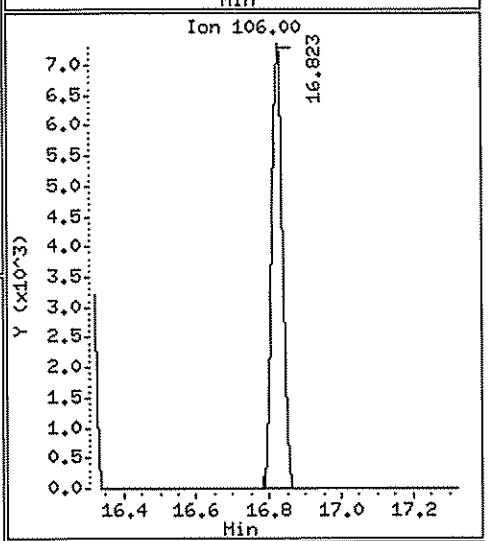


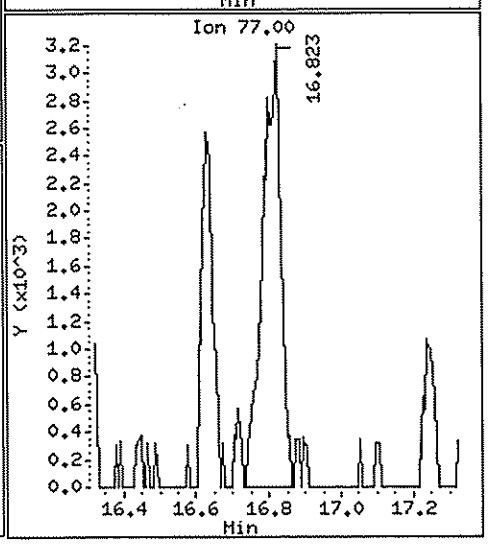












Data File: /var/chem/gcms/mj.i/J041707.b/jtph5.d

Date : 17-APR-2007 20:41

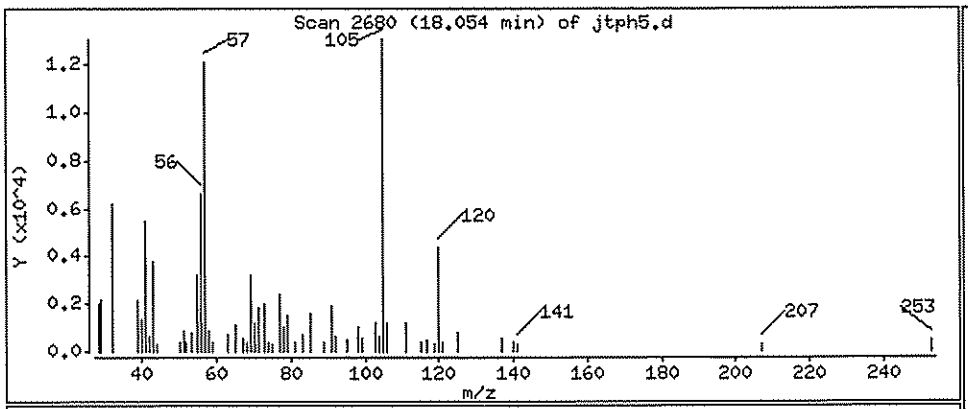
Client ID: SV-13(S.S) Instrument: mj.i

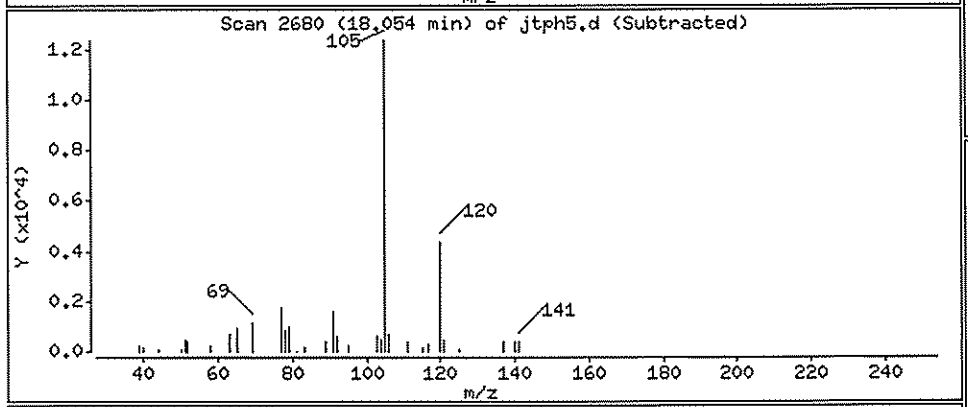
Sample Info: JTPH51AD,10,0,,,

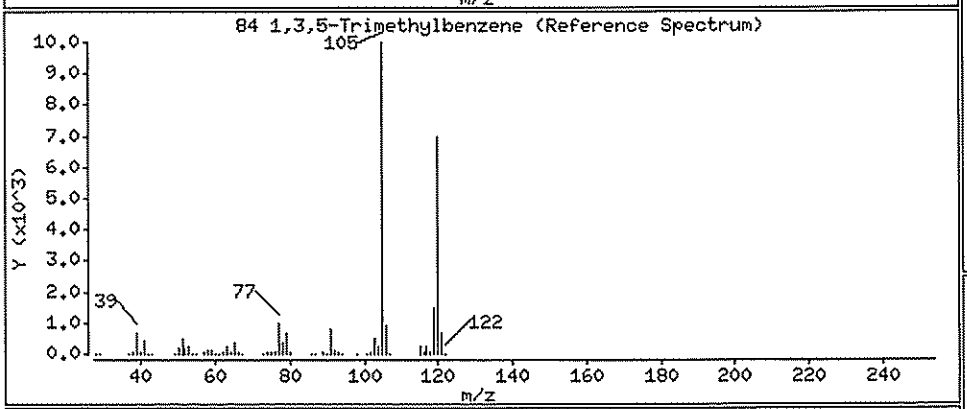
Purge Volume: 500.0 Operator: 7126

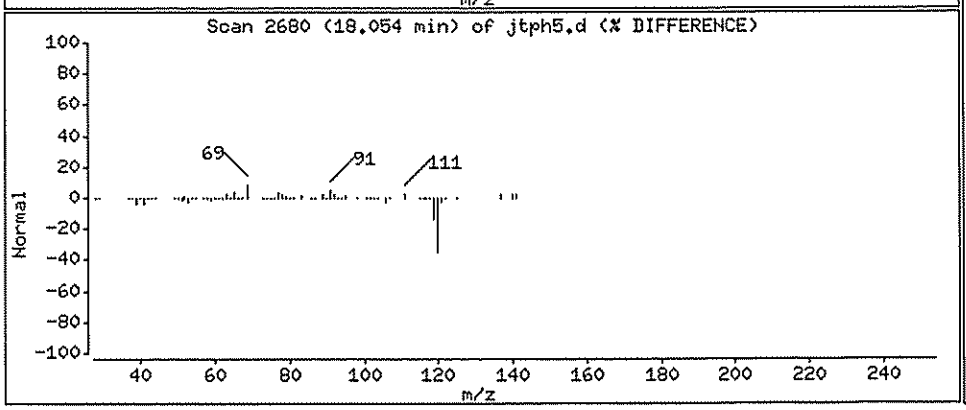
Column phase: Rtx-5 Column diameter: 0.32

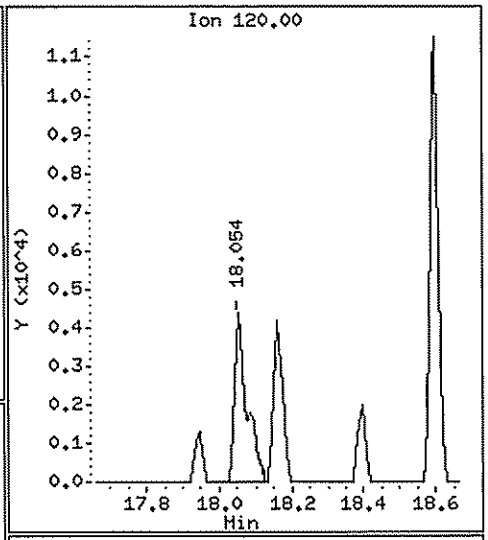
84 1,3,5-Trimethylbenzene Concentration: 1.237 ppb(v/v)

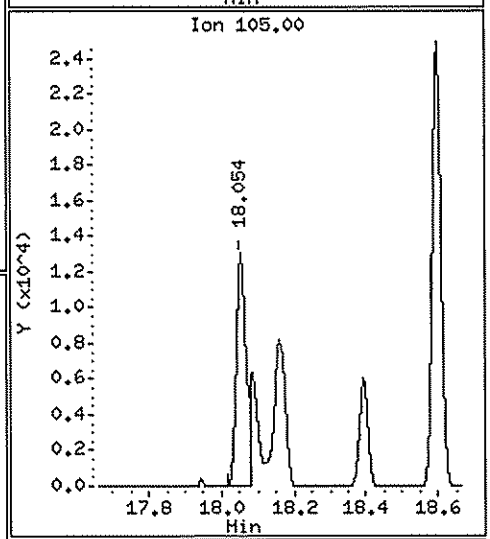


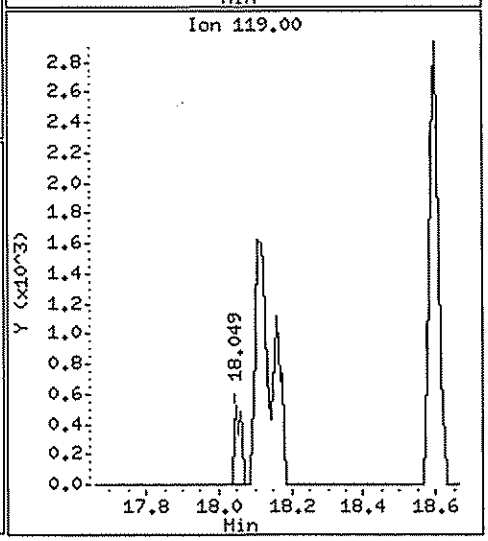












AKRF-White Plains

Client Sample ID: SV-13(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 008 **Work Order #** JTPH71AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/17/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7108057
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	**0.41**	**0.080**	**1.8**	**0.35**
Trichlorofluoromethane	**0.24**	**0.080**	**1.3**	**0.45**
n-Heptane	**4.2**	**0.20**	**17**	**0.82**
n-Hexane	**0.25**	**0.20**	**0.89**	**0.70**
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.36**	**0.080**	**1.1**	**0.26**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**8.2**	**0.080**	**31**	**0.30**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	**0.26**	**0.040**	**1.4**	**0.21**
1,3,5-Trimethylbenzene	**0.34**	**0.080**	**1.7**	**0.39**
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	**0.45**	**0.080**	**2.0**	**0.35**
Methyl tert-butyl ether	**1.7**	**0.40**	**6.0**	**1.4**
m-Xylene & p-Xylene	**1.4**	**0.080**	**5.9**	**0.35**
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	**0.075**	**0.040**	**0.47**	**0.25**
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	**0.22**	**0.080**	**1.1**	**0.39**
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	**0.94**	**0.20**	**3.3**	**0.69**
Dichlorodifluoromethane	**0.42**	**0.080**	**2.1**	**0.40**
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

TO-14 _rev5.rpt version 5.0.103 10/12/2006

AKRF-White Plains

Client Sample ID: SV-13(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 008 **Work Order #** JTPH71AD **Matrix.....:** AIR

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	112	70 - 130
Toluene-d8	104	70 - 130
4-Bromofluorobenzene	98	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TO-14 _rev5.rpt version 5.0.103 10/12/2006

Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d
Report Date: 18-Apr-2007 12:00

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041707.b/jtph7.d
Lab Smp Id: JTPH71AD Client Smp ID: SV-13(A.A)
Inj Date : 17-APR-2007 21:24
Operator : 7126 Inst ID: mj.i
Smp Info : JTPH71AD,,0,,,
Misc Info : J041707,TO15,mabna.sub,,,500 ML
Comment :
Method : /var/chem/gcms/mj.i/J041707.b/TO15.m
Meth Date : 18-Apr-2007 11:59 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: magna.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

4/20/07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.891	8.894	(1.000)	190440	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.080	11.089	(1.000)	640917	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.803	15.806	(1.000)	507244	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.902	9.911	(0.894)	183466	4.49859	4.498
$ 5 Toluene-d8	98	13.721	13.725	(0.868)	512632	4.15295	4.153
$ 6 4-Bromofluorobenzene	95	17.439	17.442	(1.103)	399254	3.90070	3.901
8 Dichlorodifluoromethane	85	3.769	3.773	(0.424)	95958	0.42013	0.4201
15 1,3-Butadiene	54	4.216	4.219	(0.474)	6356	0.16396	~~0.1640~~
20 Trichlorofluoromethane	101	5.260	5.263	(0.592)	53884	0.23700	0.2370
36 Methyl-t-Butyl Ether	73	7.315	7.318	(0.823)	217087	1.66277	1.663
39 Hexane	56	8.132	8.135	(0.915)	12366	0.25291	0.2529
43 Chloroform	83	8.901	8.910	(1.001)	32942	0.22446	0.2244
47 Cyclohexane	69	10.515	10.529	(0.949)	26106	0.94506	0.9450
49 Benzene	78	10.537	10.540	(0.951)	54869	0.35532	0.3553
50 Carbon Tetrachloride	117	10.553	10.556	(1.187)	12865	0.07489	0.07489
51 2,2,4-trimethylpentane	57	11.080	11.282	(1.000)	56926	0.22348	~~0.2235~~

KM 4-19-07

Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d
Report Date: 18-Apr-2007 12:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
52 Heptane	43	11.650	11.654	(1.051)	384371	4.21051	4.210
54 Trichloroethene	130	11.779	11.793	(1.063)	23282	0.25758	0.2576
61 trans-1,3-Dichloropropene	75	13.834	13.725	(0.875)	9559	0.12397	~~0.1240~~
62 Toluene	91	13.834	13.838	(0.875)	1089032	8.24662	8.247
63 1,1,2-Trichloroethane	97	14.103	13.929	(0.892)	59442	1.24573	~~1.246~~
70 Ethylbenzene	91	16.137	16.140	(1.021)	63626	0.40689	0.4069
71 m&p-Xylene	91	16.293	16.296	(1.031)	164968	1.36347	1.363
75 o-Xylene	91	16.825	16.823	(1.065)	59569	0.45293	0.4529
83 4-Ethyltoluene	105	18.052	18.087	(1.142)	62242	0.36751	~~0.3675~~
84 1,3,5-Trimethylbenzene	120	18.160	18.163	(1.149)	21257	0.33977	0.3398

MM 4-19-07

Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d
Report Date: 18-Apr-2007 12:00

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jtph7.d
Lab Smp Id: JTPH71AD
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J041707.b/TO15.m
Misc Info: J041707,TO15,mabna.sub,,,500 ML

Calibration Date: 17-APR-2007
Calibration Time: 10:04
Client Smp ID: SV-13(A.A)
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	174498	103826	245170	190440	9.14
2 1,4-Difluorobenze	650922	387299	914545	640917	-1.54
3 Chlorobenzene-d5	597966	355790	840142	507244	-15.17

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.89	8.56	9.22	8.89	-0.04
2 1,4-Difluorobenze	11.09	10.76	11.42	11.08	-0.08
3 Chlorobenzene-d5	15.81	15.48	16.14	15.80	-0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d
Report Date: 18-Apr-2007 12:00

STL Knoxville

RECOVERY REPORT

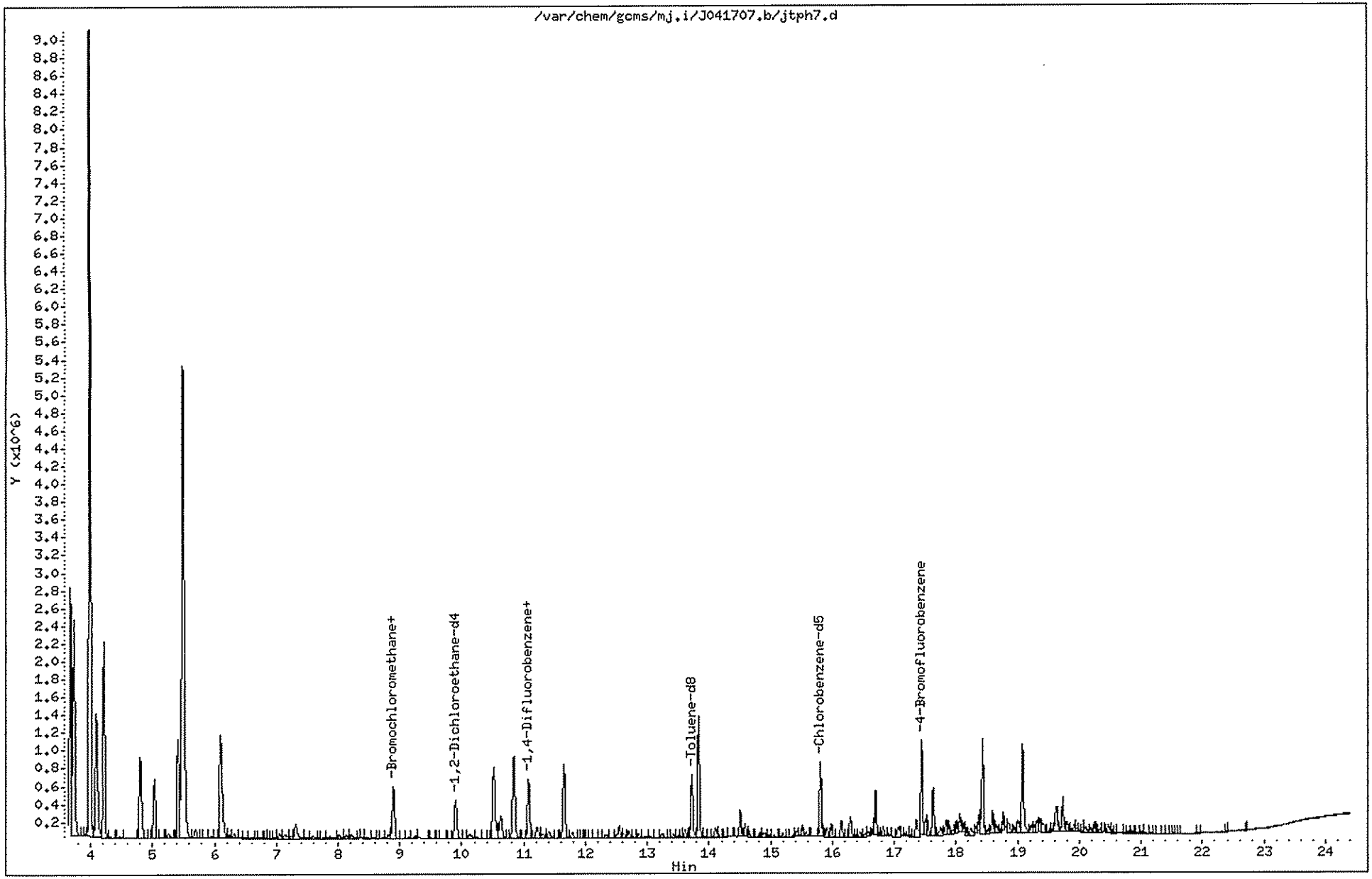
Client Name: AKRF-White Plains
Sample Matrix: GAS
Lab Smp Id: JTPH71AD
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: magna.sub
Method File: /var/chem/gcms/mj.i/J041707.b/TO15.m
Misc Info: J041707,TO15,mabna.sub,,,500 ML

Client SDG: H7D110232
Fraction: OTHER
Client Smp ID: SV-13(A.A)
Operator: 7126
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	4.000	4.498	112.46	70-130
$ 5 Toluene-d8	4.000	4.153	103.82	70-130
$ 6 4-Bromofluorobenze	4.000	3.901	97.52	70-130

Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d
Date : 17-APR-2007 21:24
Client ID: SV-13(A,A)
Sample Info: JTPH71AD,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mj.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

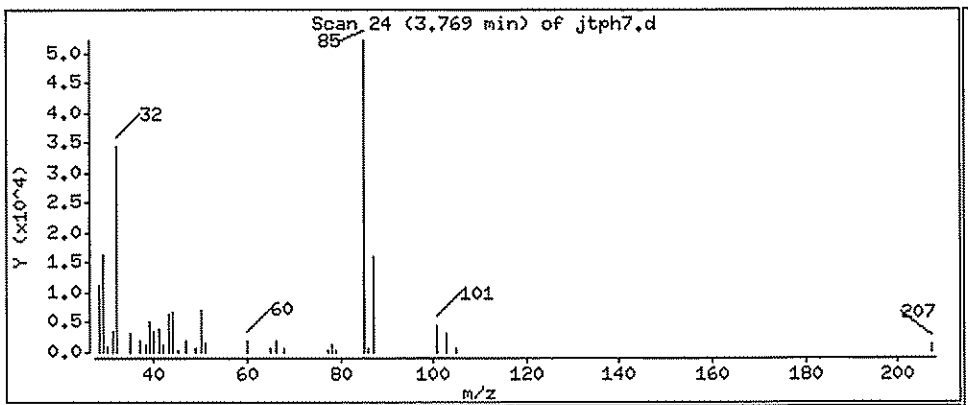
Client ID: SV-13(A,A) Instrument: mj.i

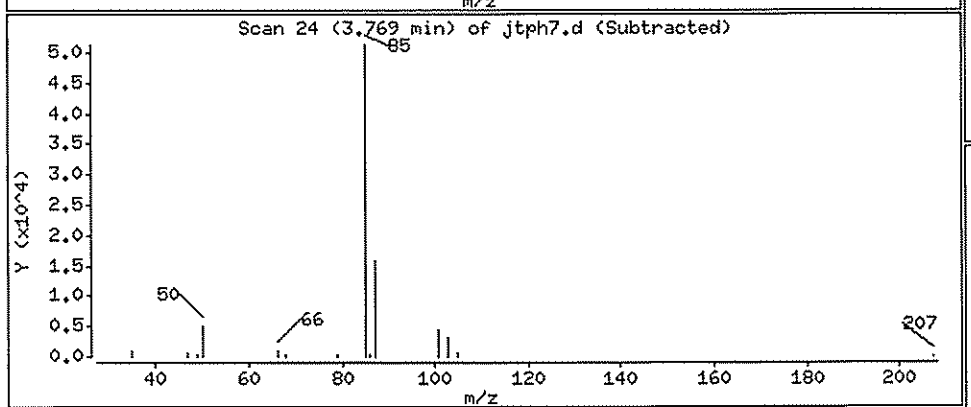
Sample Info: JTPH71AD,,0,,,

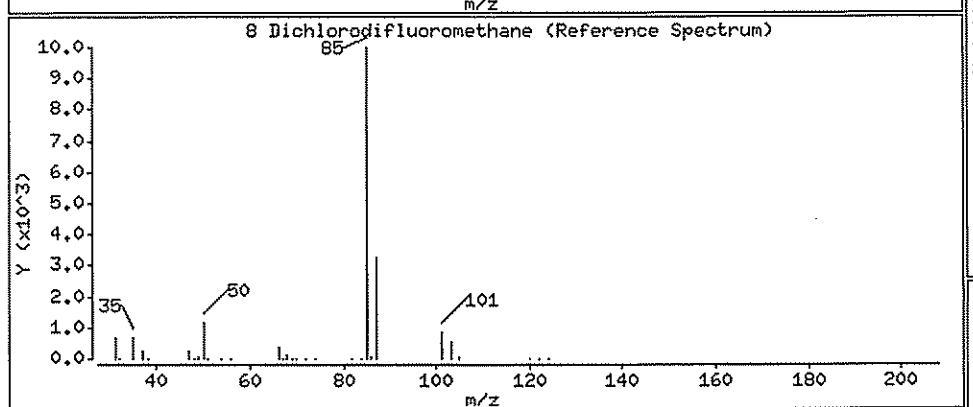
Purge Volume: 500.0 Operator: 7126

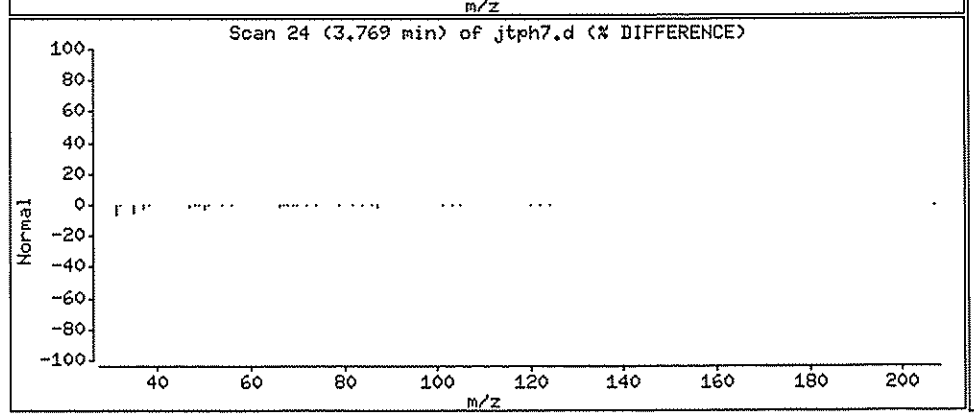
Column phase: Rtx-5 Column diameter: 0.32

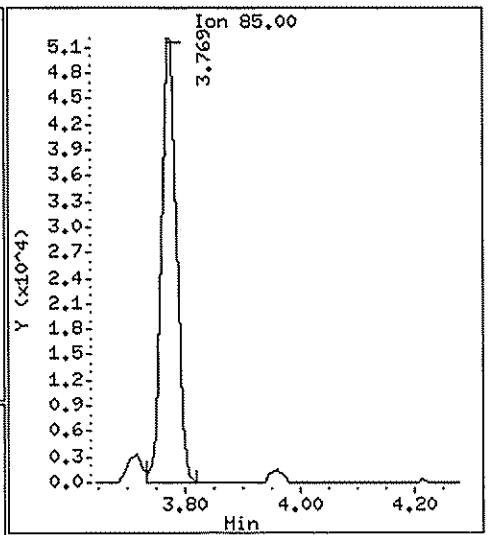
8 Dichlorodifluoromethane Concentration: 0.4201 ppb(v/v)

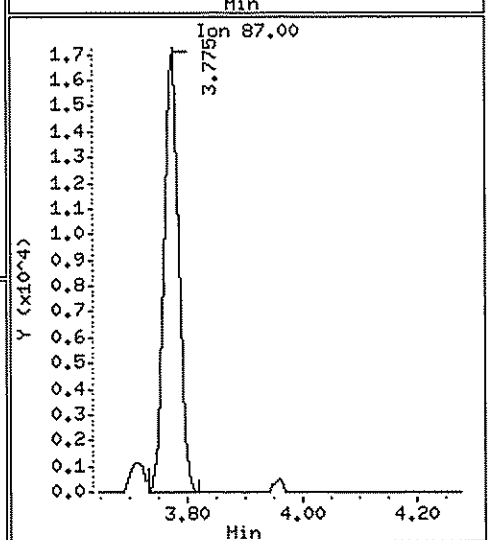


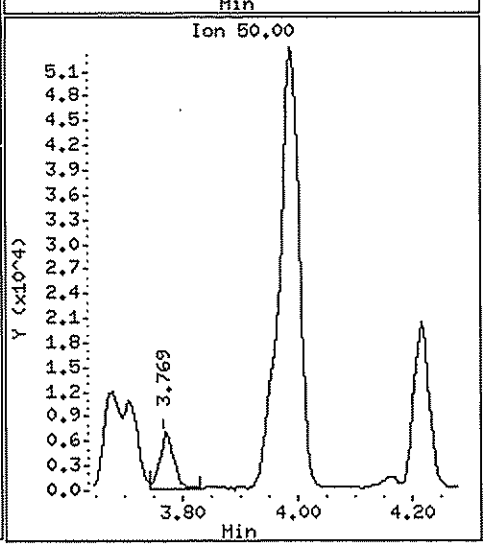












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

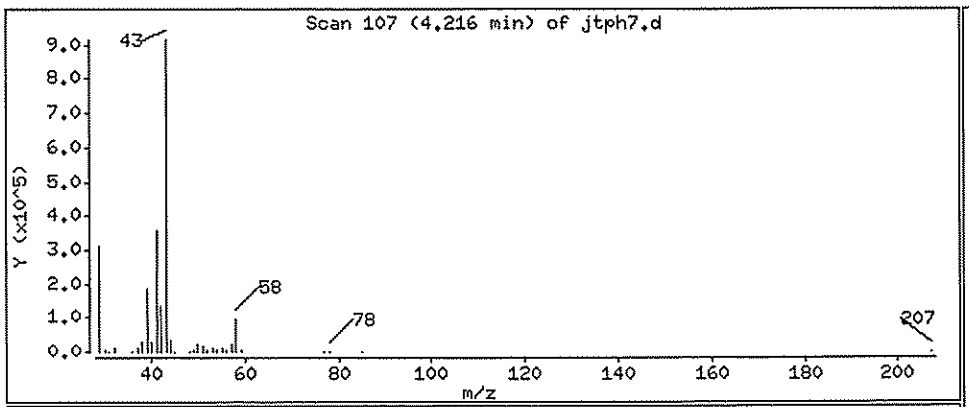
Client ID: SV-13(A,A) Instrument: mj.i

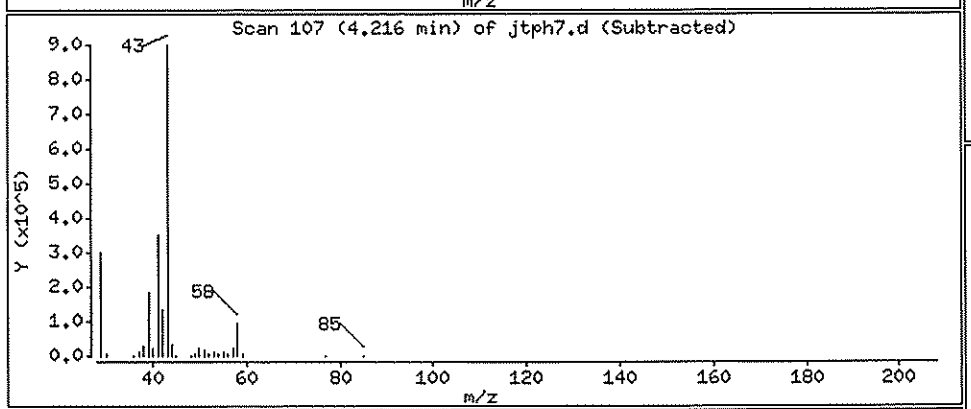
Sample Info: JTPH71AD,,0,,,

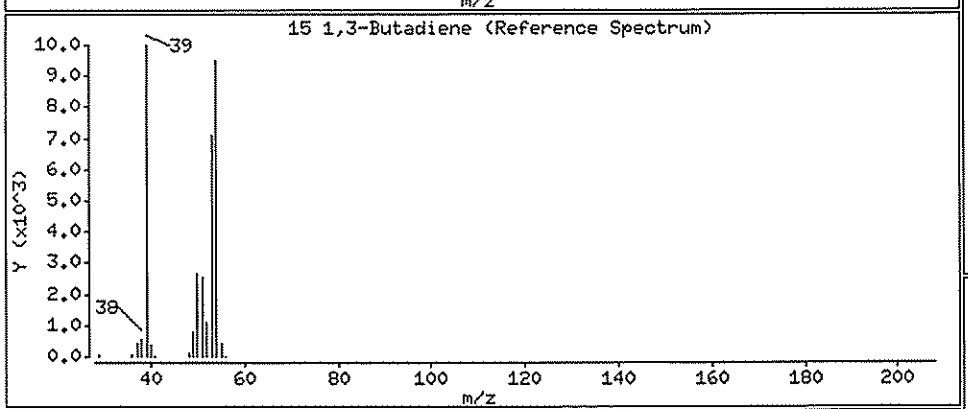
Purge Volume: 500.0 Operator: 7126

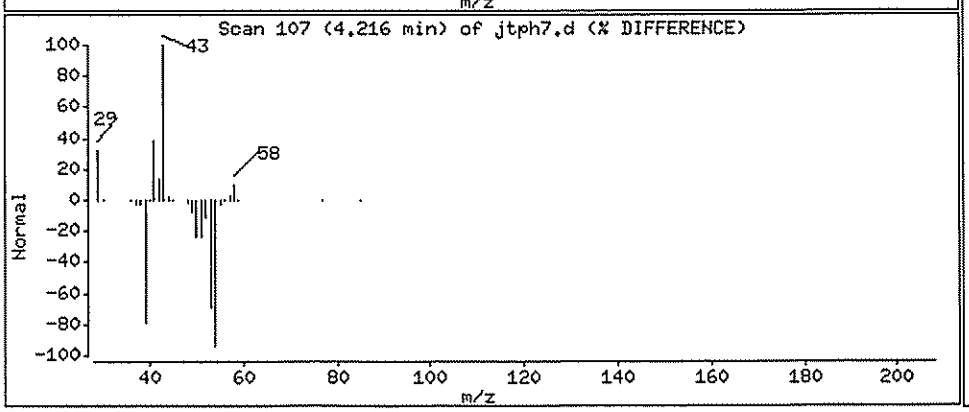
Column phase: Rtx-5 Column diameter: 0.32

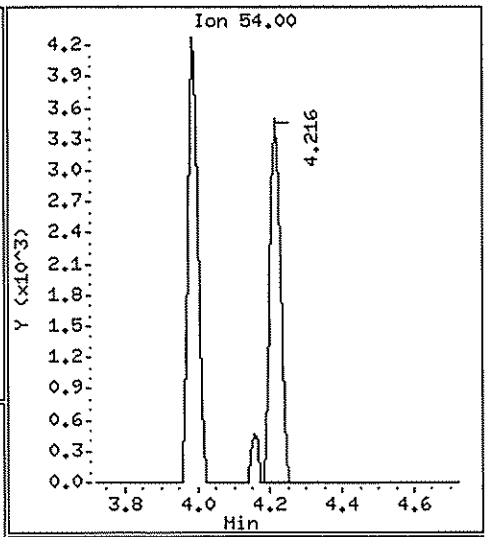
15 1,3-Butadiene Concentration: 0.1640 ppb(v/v)

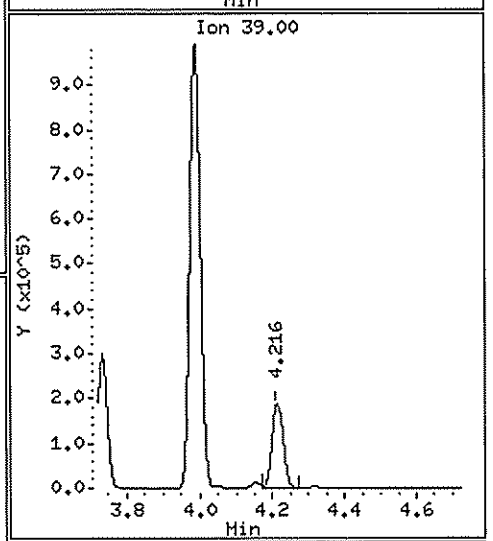


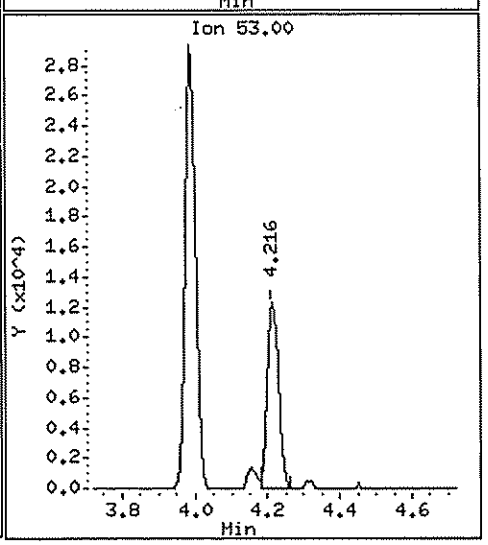












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

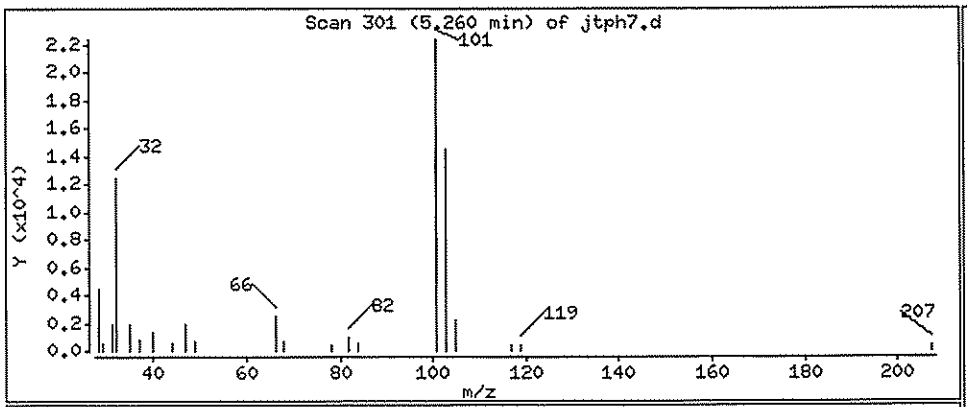
Client ID: SV-13(A,A) Instrument: mj.i

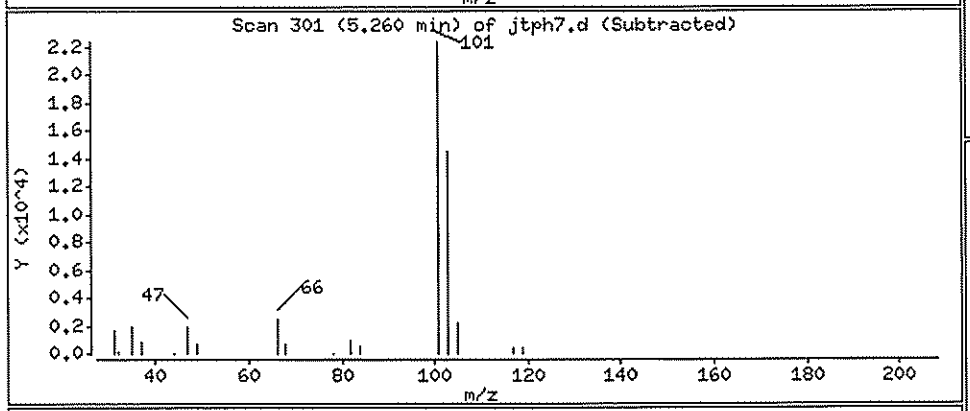
Sample Info: JTPH71AD,,0,,,

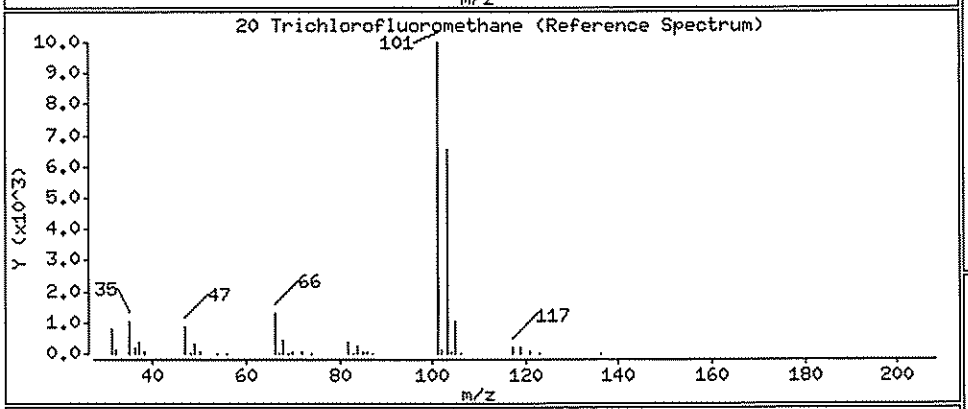
Purge Volume: 500.0 Operator: 7126

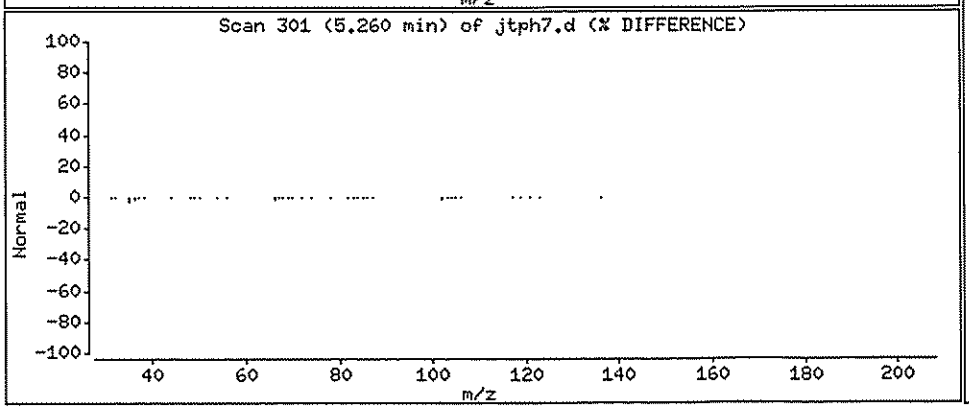
Column phase: Rtx-5 Column diameter: 0.32

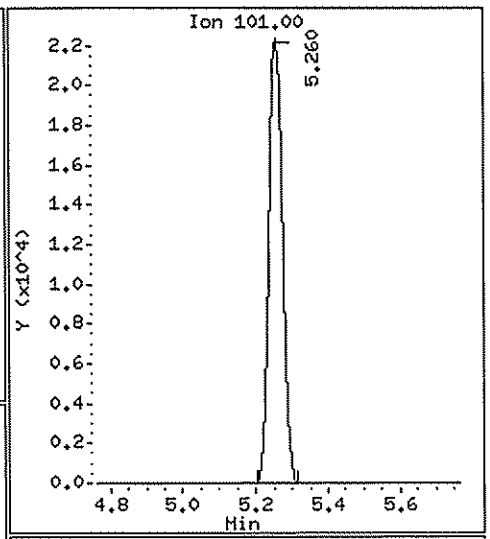
20 Trichlorofluoromethane Concentration: 0.2370 ppb(v/v)

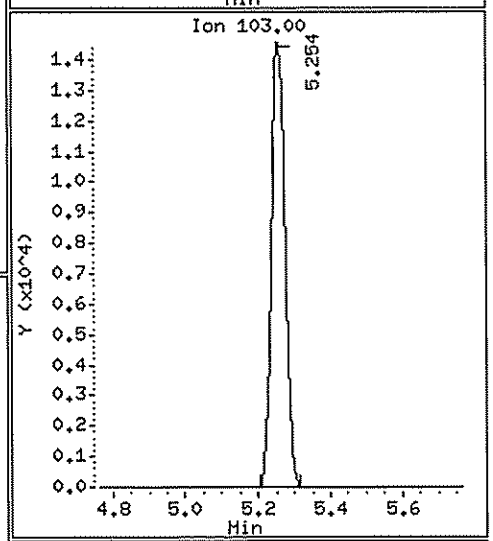


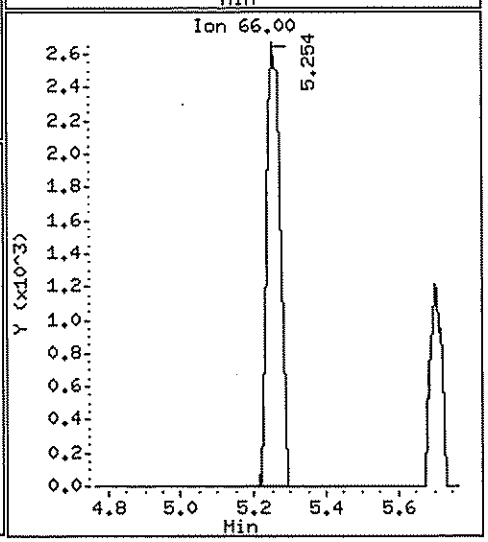












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

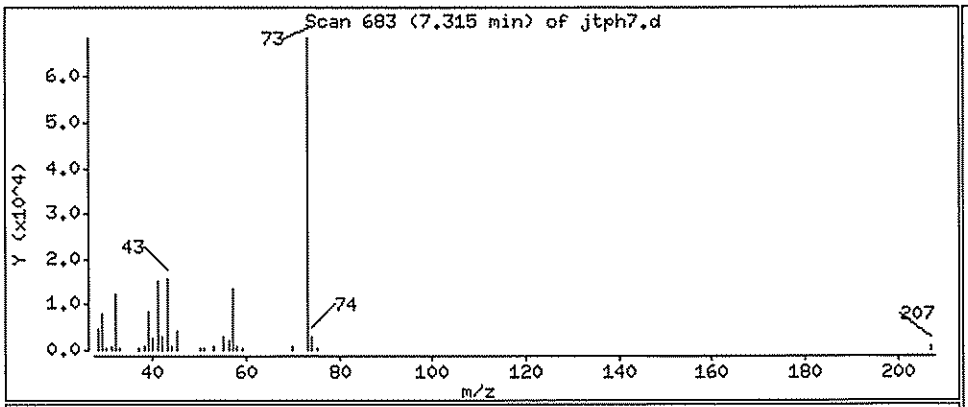
Client ID: SV-13(A.A) Instrument: mj.i

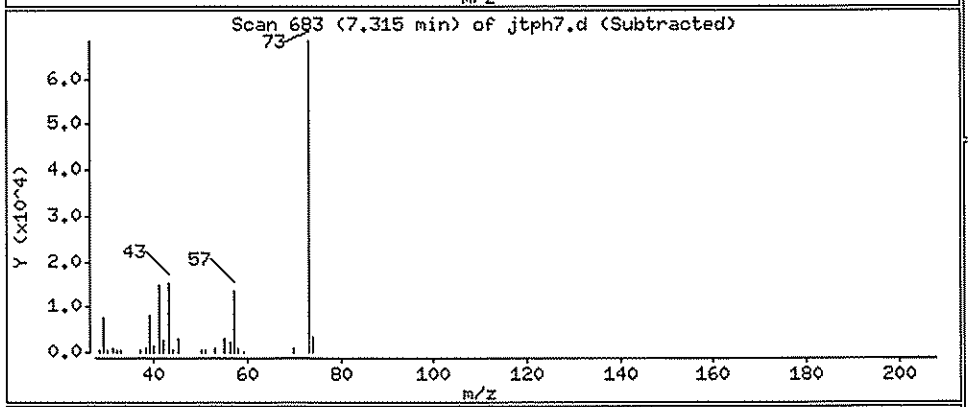
Sample Info: JTPH71AD,,0,,,

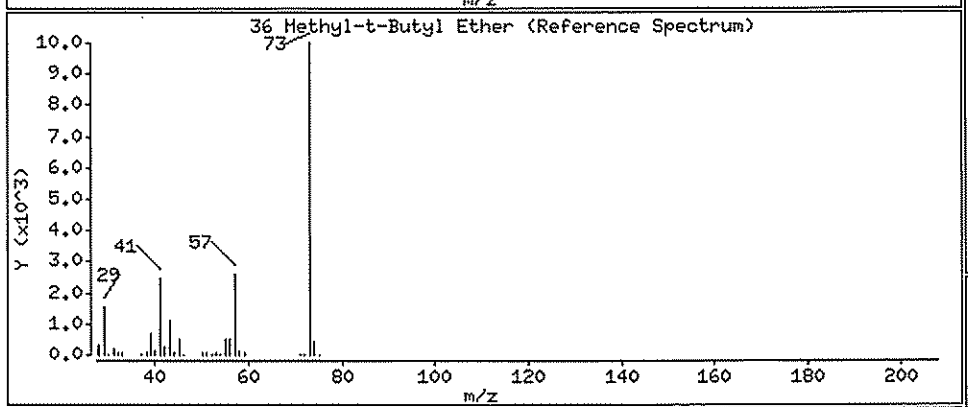
Purge Volume: 500.0 Operator: 7126

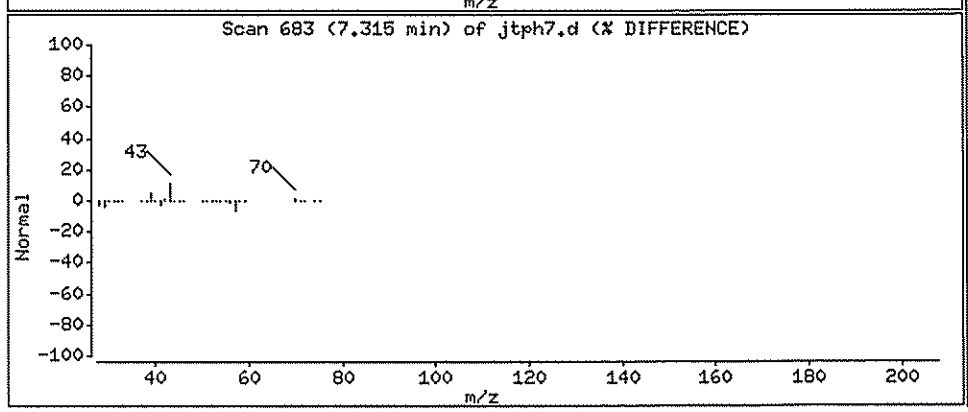
Column phase: Rtx-5 Column diameter: 0.32

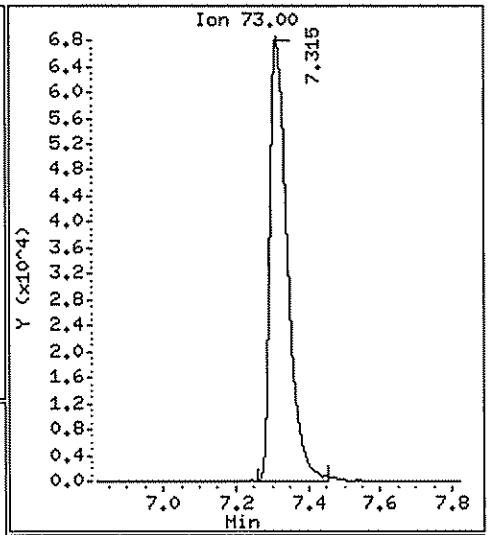
36 Methyl-t-Butyl Ether Concentration: 1.663 ppb(v/v)

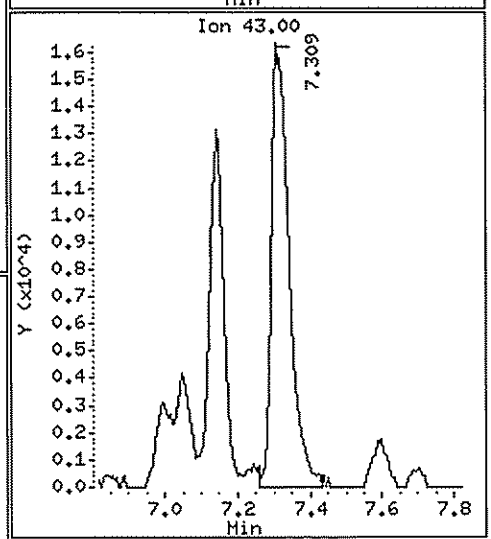


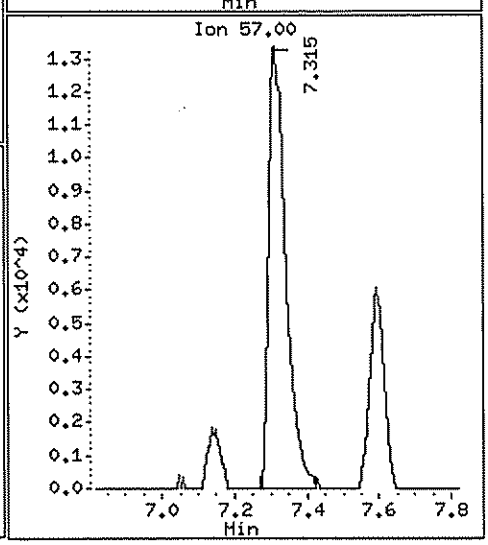












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

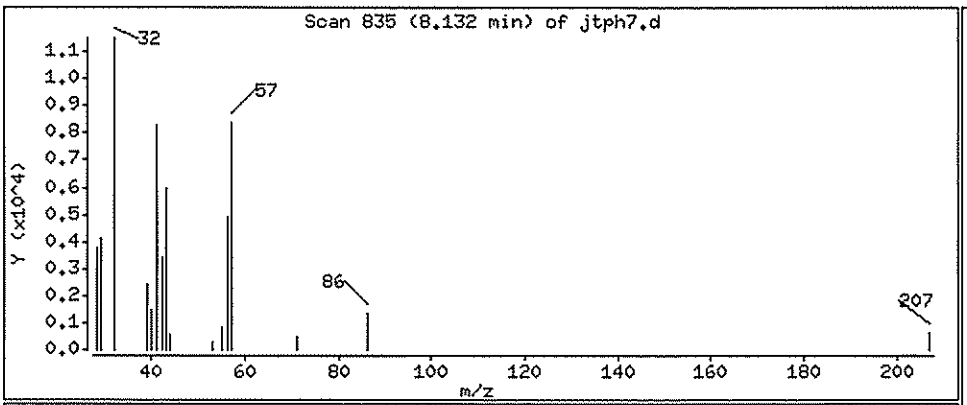
Client ID: SV-13(A.A) Instrument: mj.i

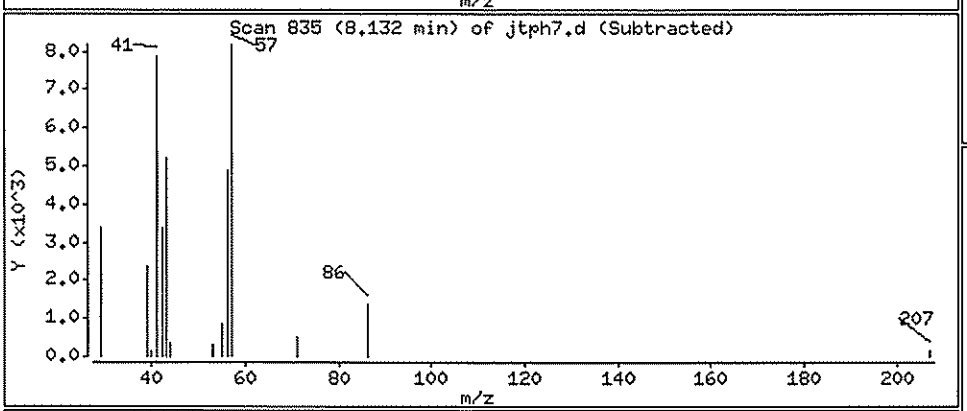
Sample Info: JTPH71AD,,0,,,

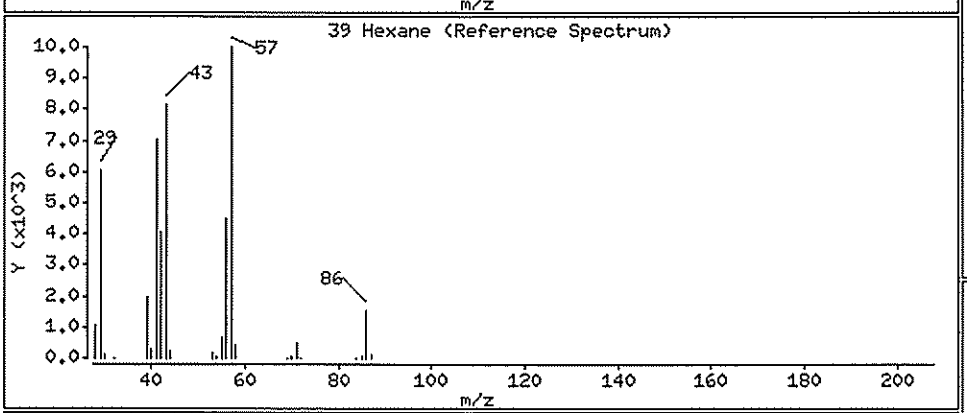
Purge Volume: 500.0 Operator: 7126

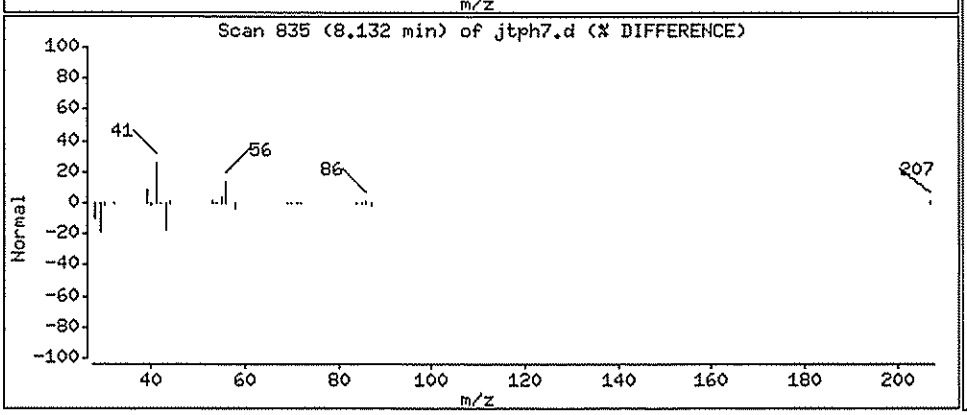
Column phase: Rtx-5 Column diameter: 0.32

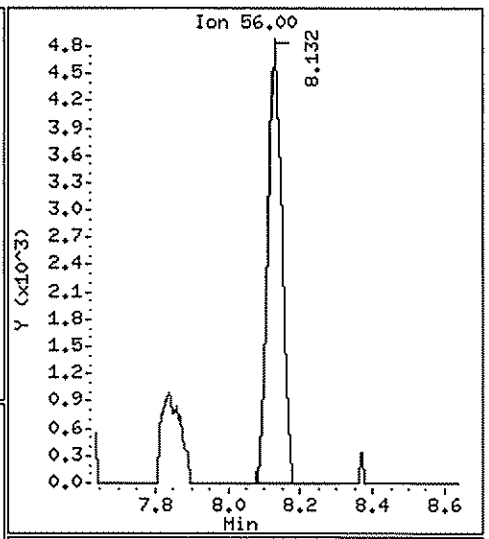
39 Hexane Concentration: 0.2529 ppb(v/v)

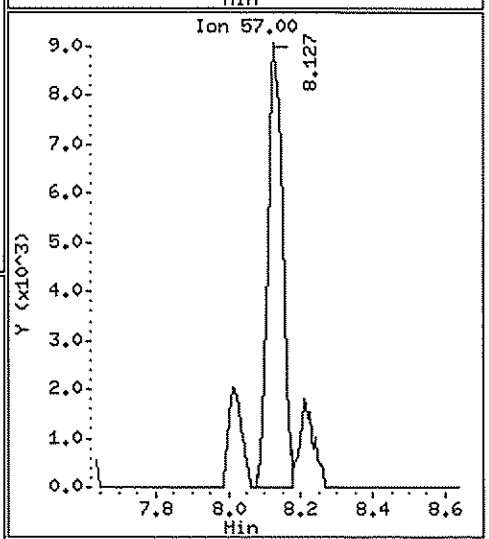


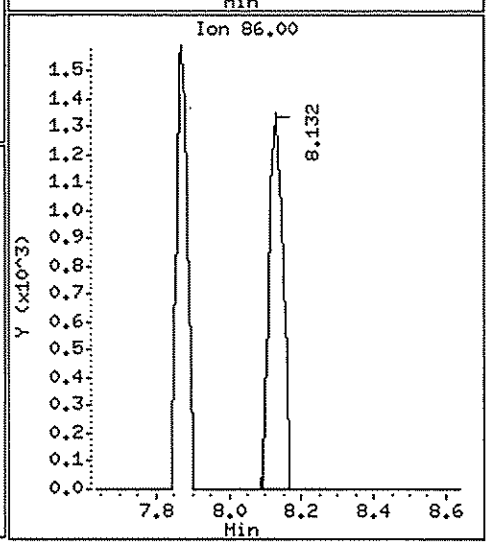












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

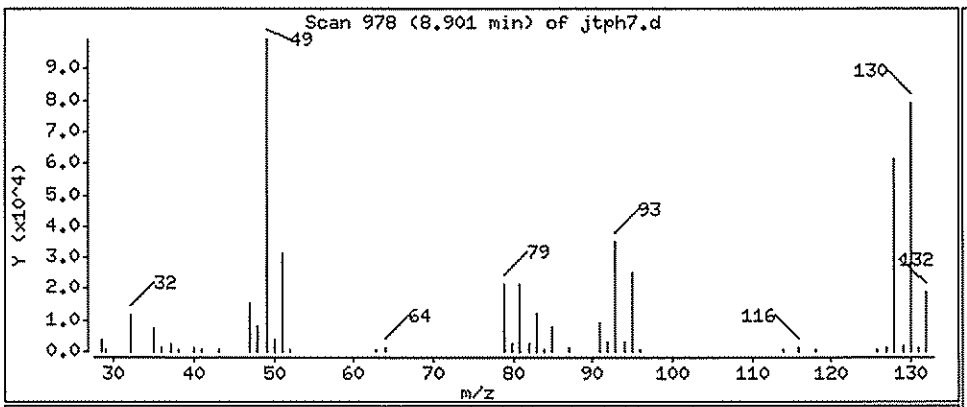
Client ID: SV-13(A.A) Instrument: mj.i

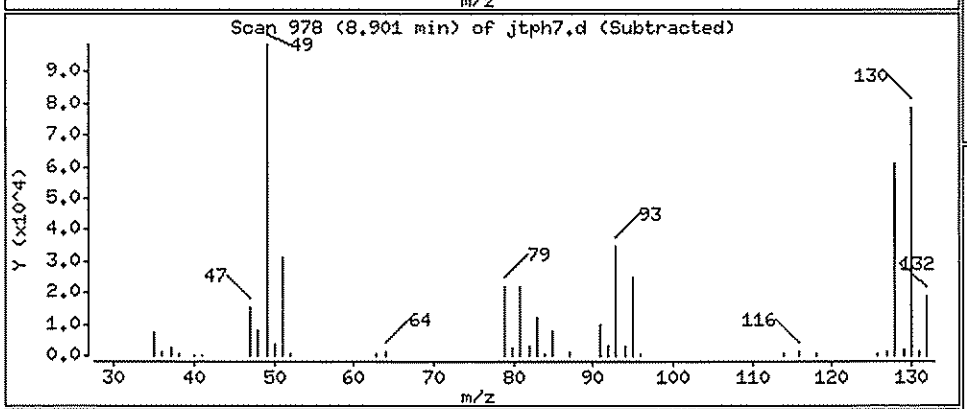
Sample Info: JTPH71AD,,0,,,

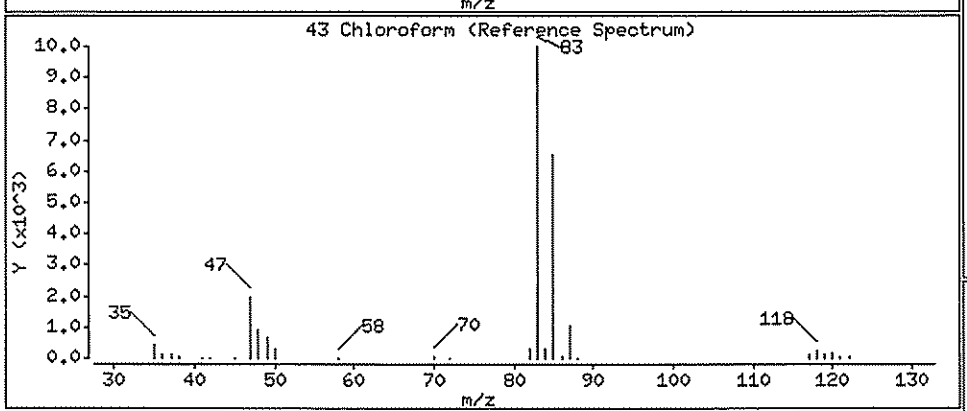
Purge Volume: 500.0 Operator: 7126

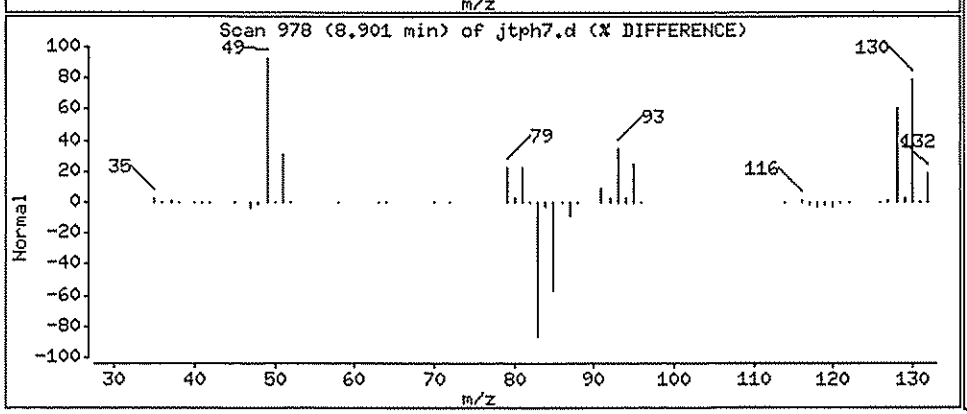
Column phase: Rtx-5 Column diameter: 0.32

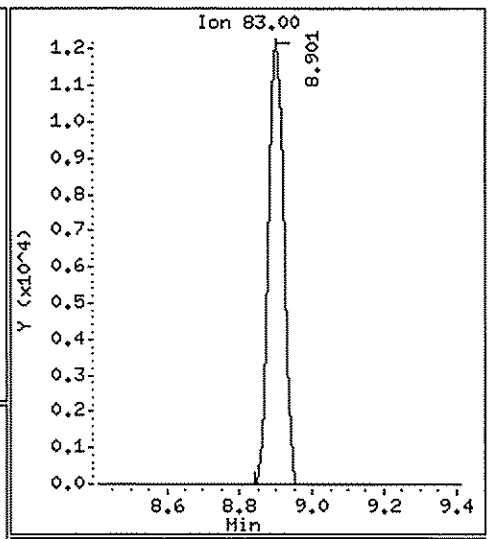
43 Chloroform Concentration: 0.2244 ppb(v/v)

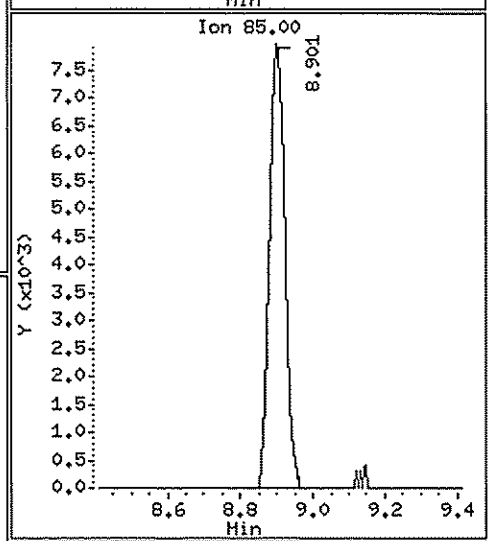


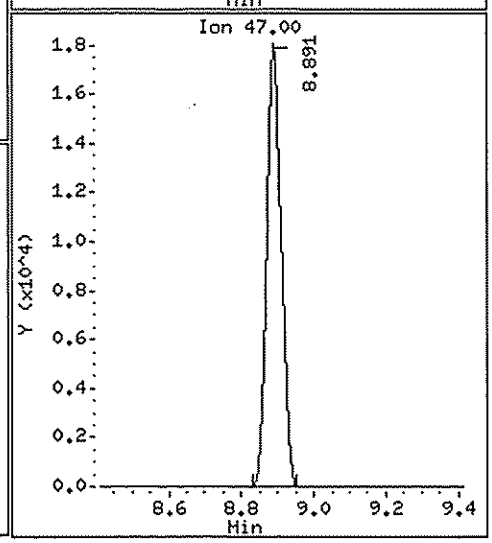












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

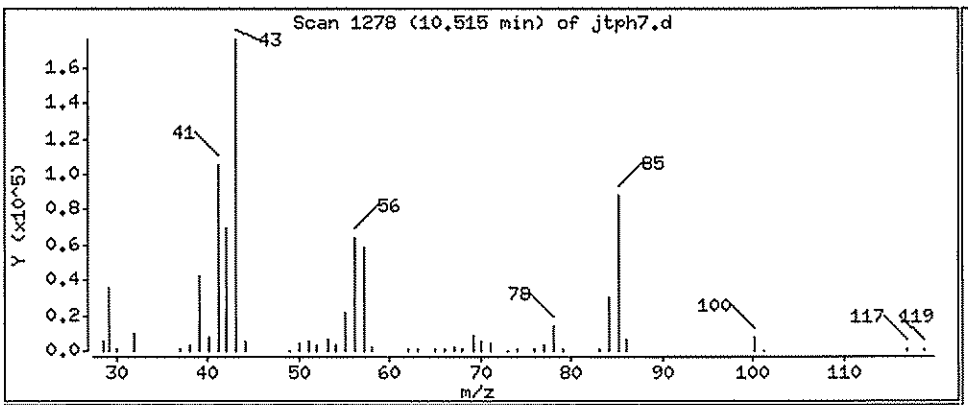
Client ID: SV-13(A,A) Instrument: mj.i

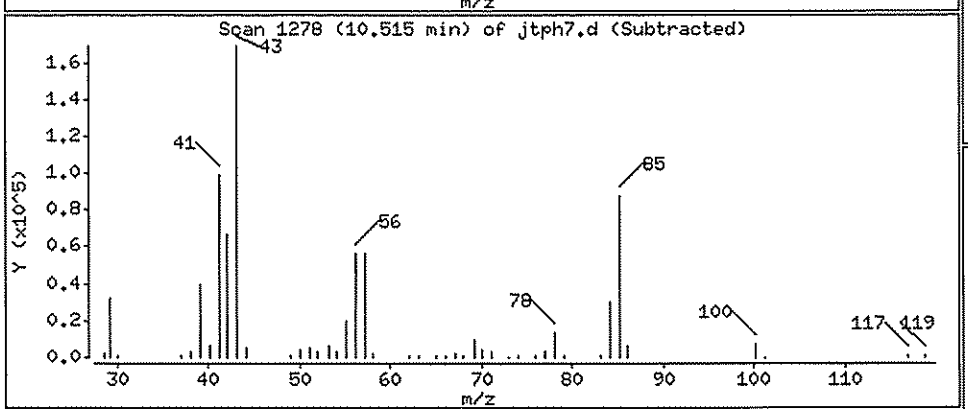
Sample Info: JTPH71AD,,0,,,

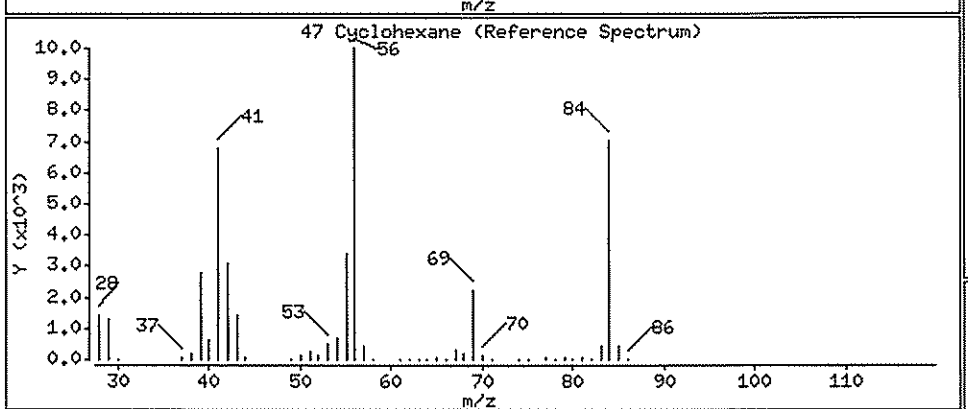
Purge Volume: 500.0 Operator: 7126

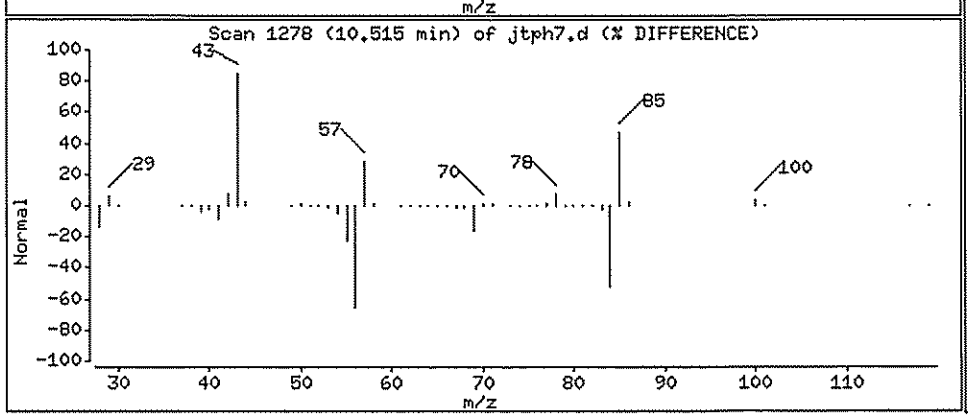
Column phase: Rtx-5 Column diameter: 0.32

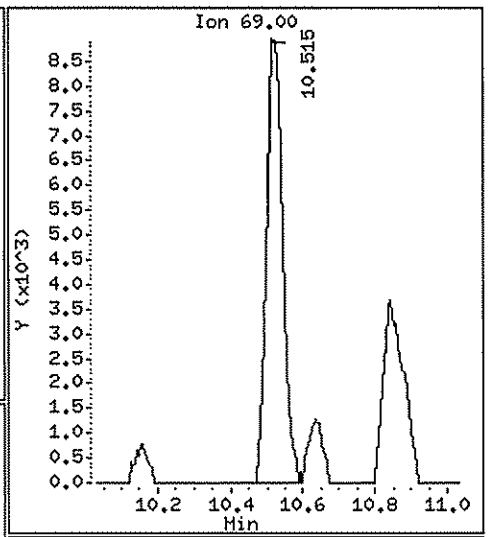
47 Cyclohexane Concentration: 0.9450 ppb(v/v)

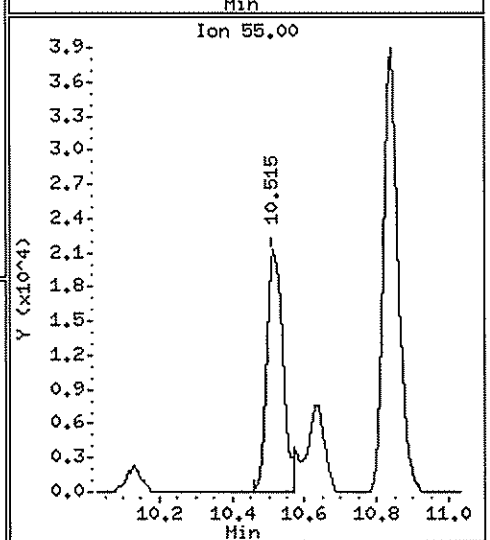


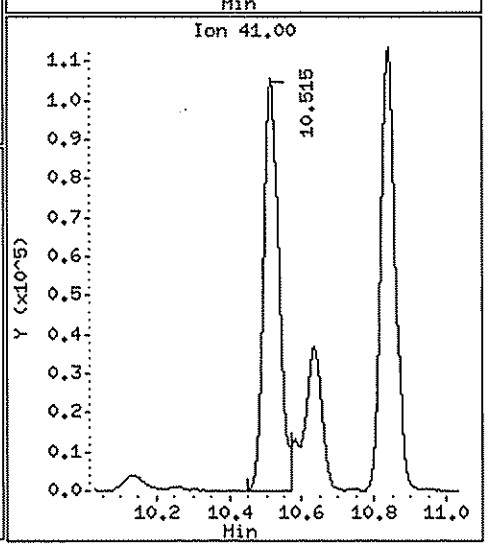












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

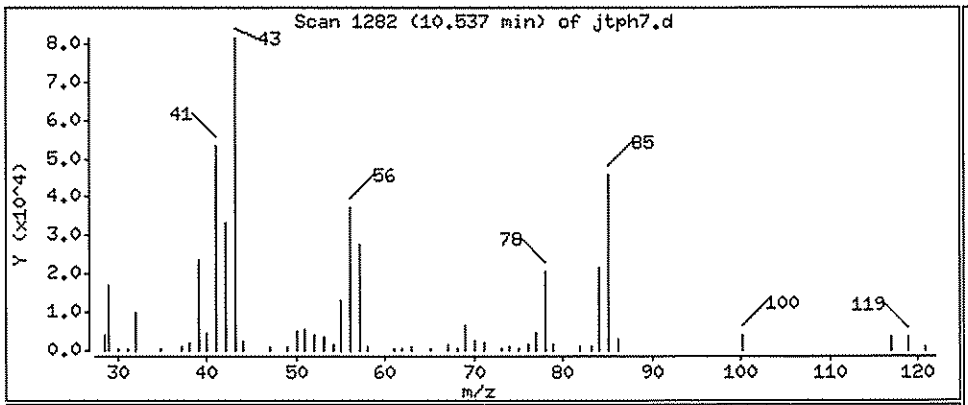
Client ID: SV-13(A.A) Instrument: mj.i

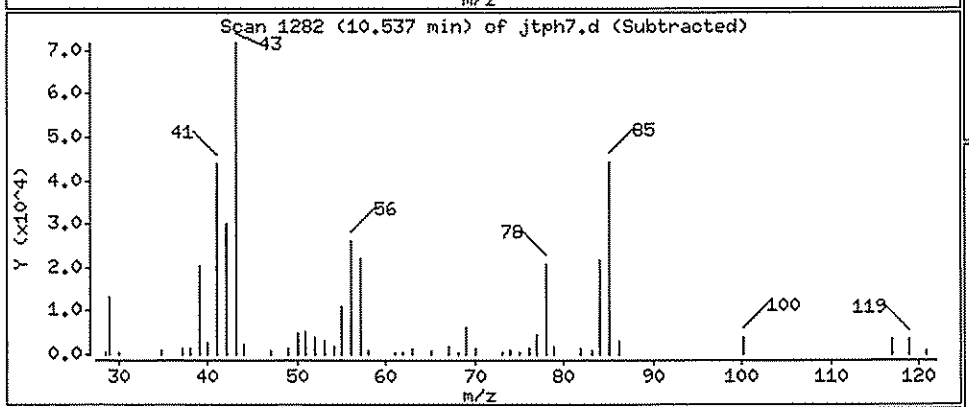
Sample Info: JTPH71AD,,0,,,

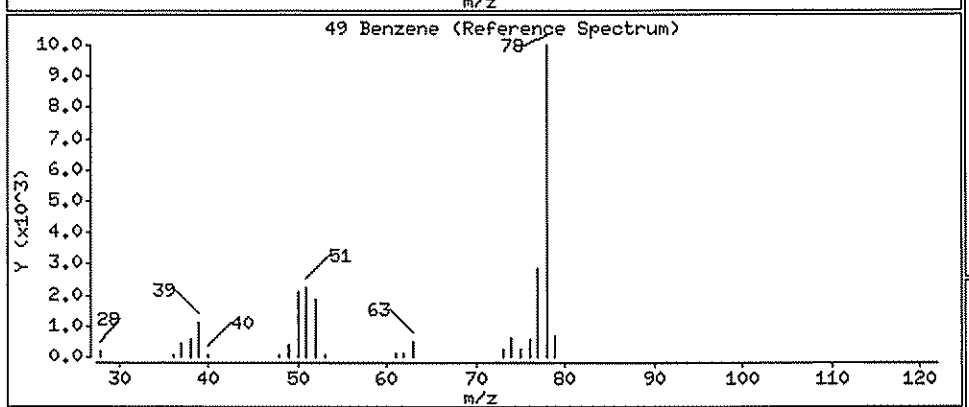
Purge Volume: 500.0 Operator: 7126

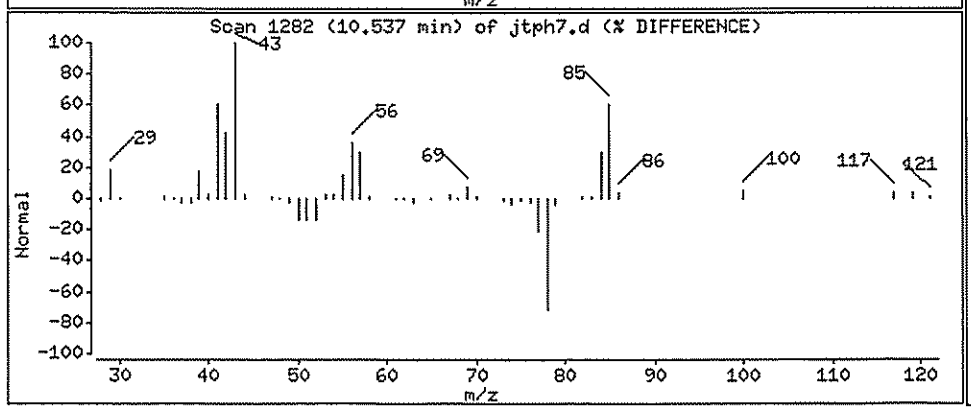
Column phase: Rtx-5 Column diameter: 0.32

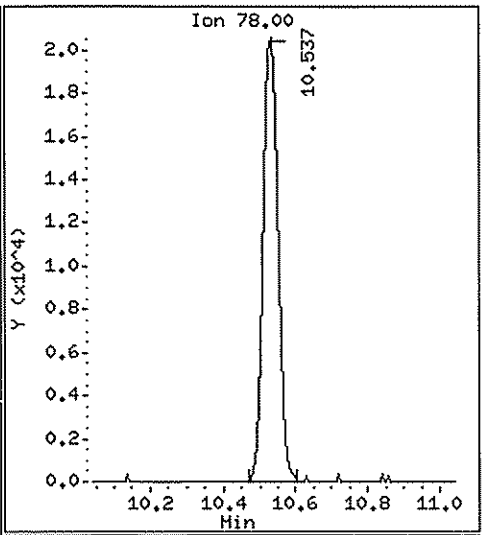
49 Benzene Concentration: 0.3553 ppb(v/v)

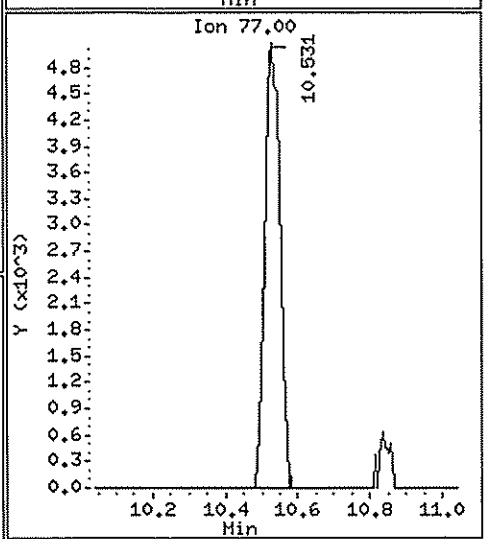


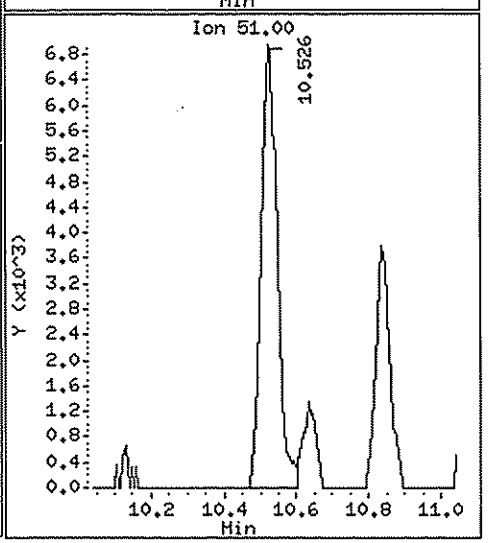












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

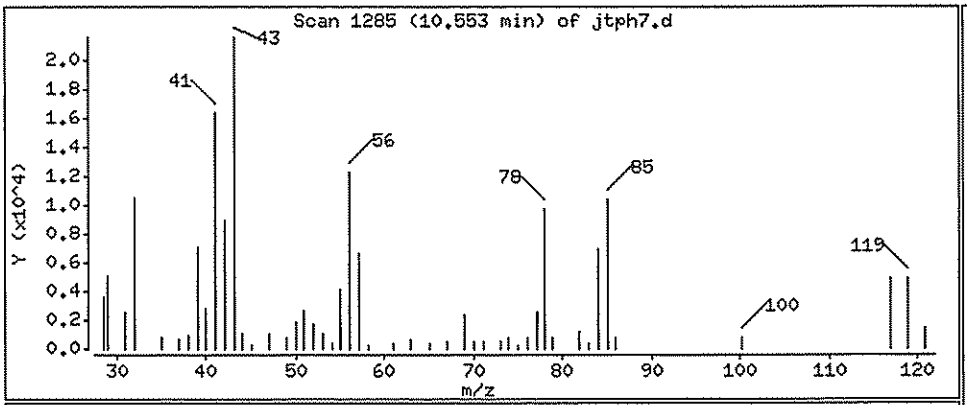
Client ID: SV-13(A,A) Instrument: mj.i

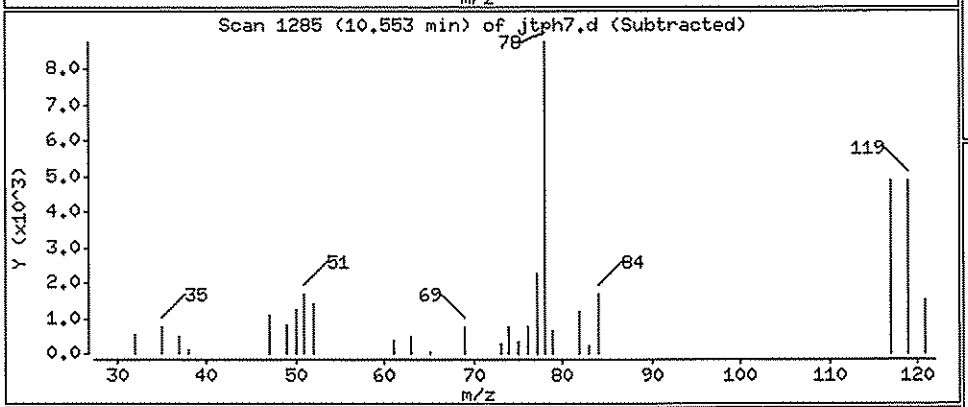
Sample Info: JTPH71AD,,0,,,

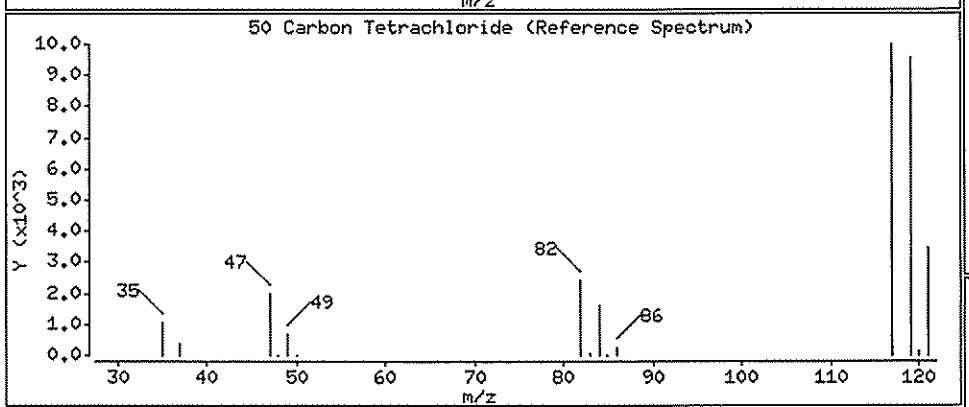
Purge Volume: 500.0 Operator: 7126

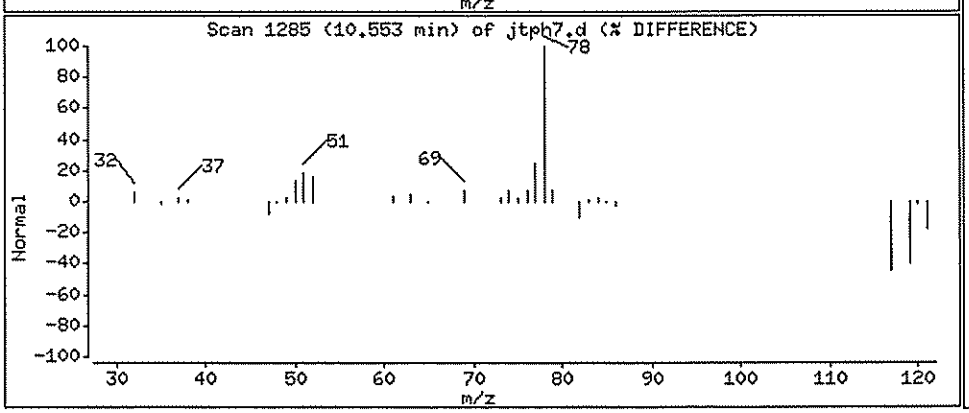
Column phase: Rtx-5 Column diameter: 0.32

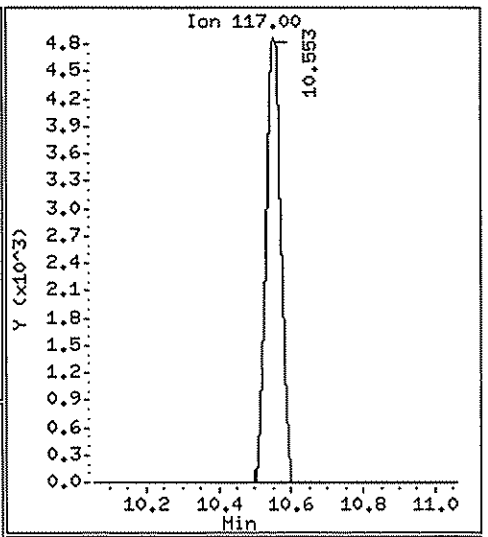
50 Carbon Tetrachloride Concentration: 0.07489 ppb(v/v)

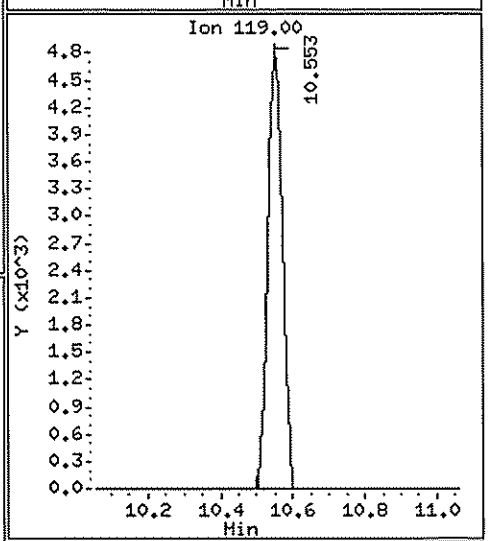


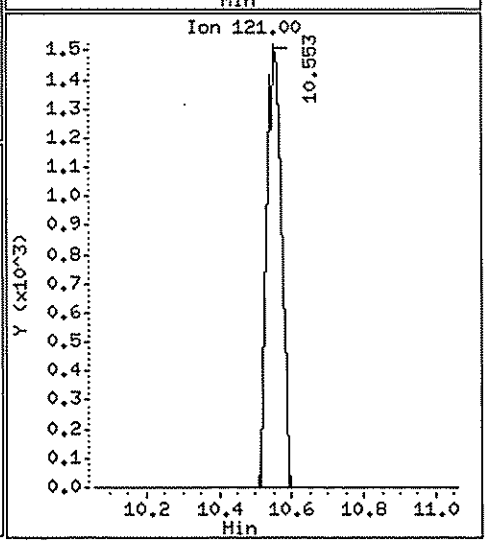












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

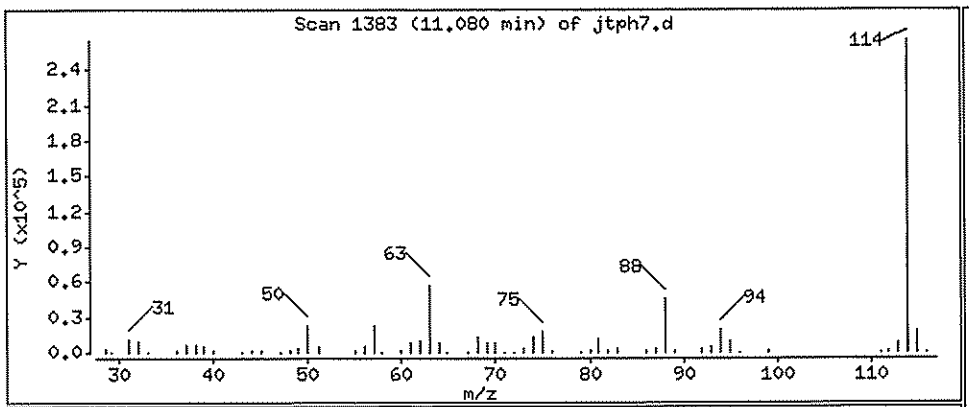
Client ID: SV-13(A,A) Instrument: mj.i

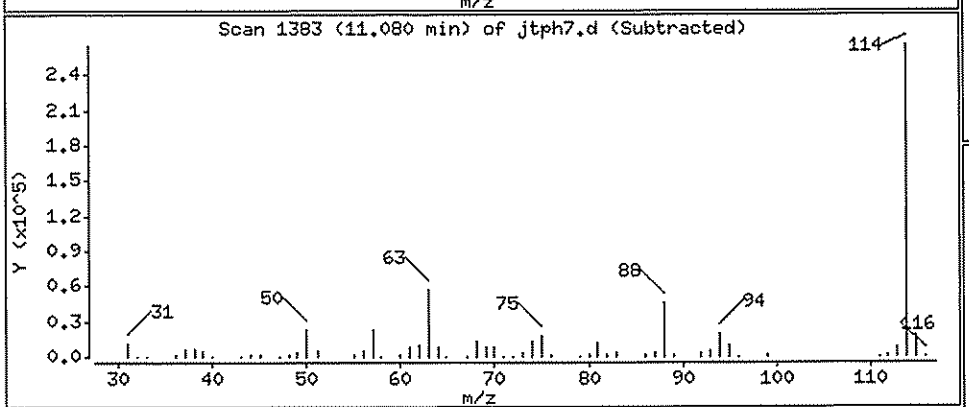
Sample Info: JTPH71AD,,0,,,

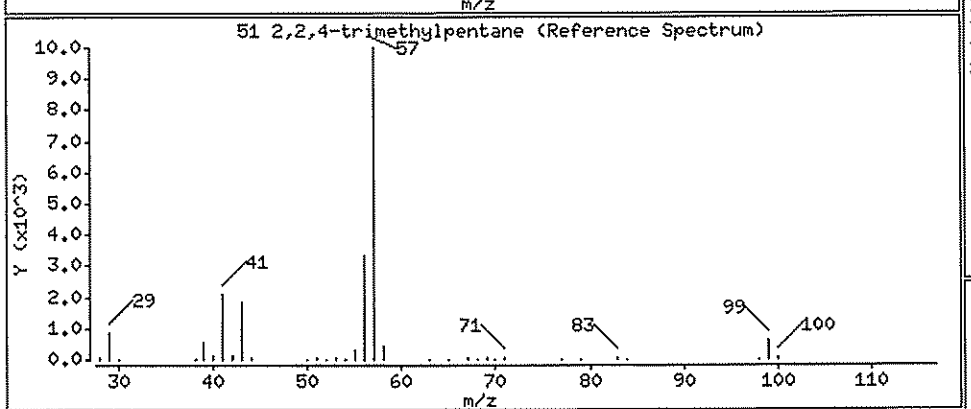
Purge Volume: 500.0 Operator: 7126

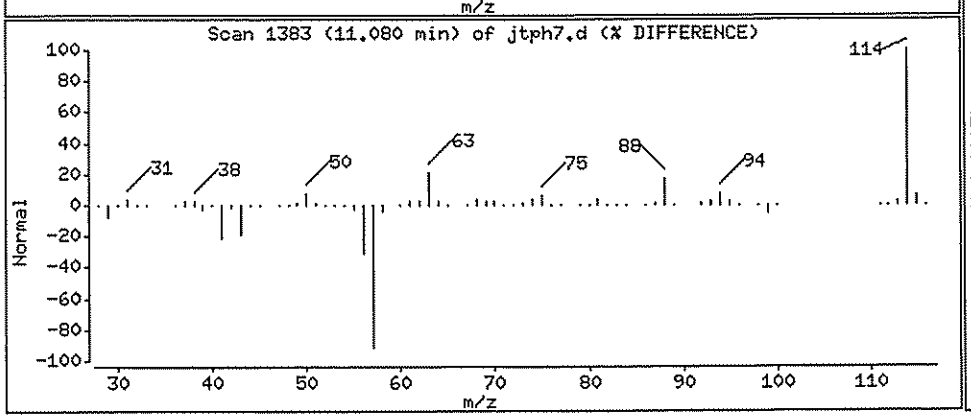
Column phase: Rtx-5 Column diameter: 0.32

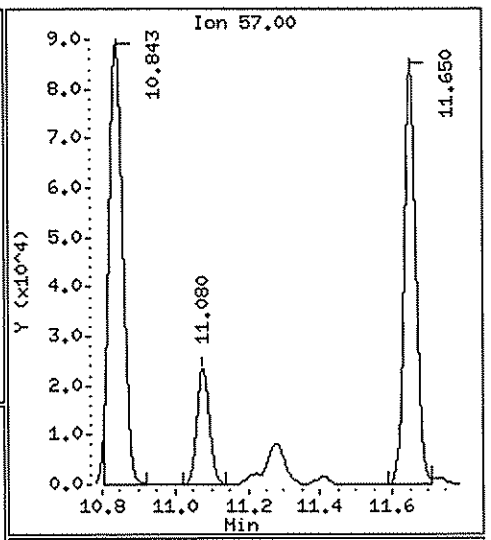
51 2,2,4-trimethylpentane Concentration: 0.2235 ppb(v/v)

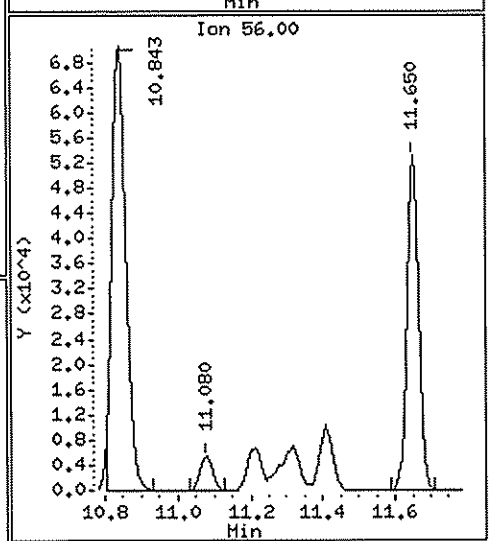


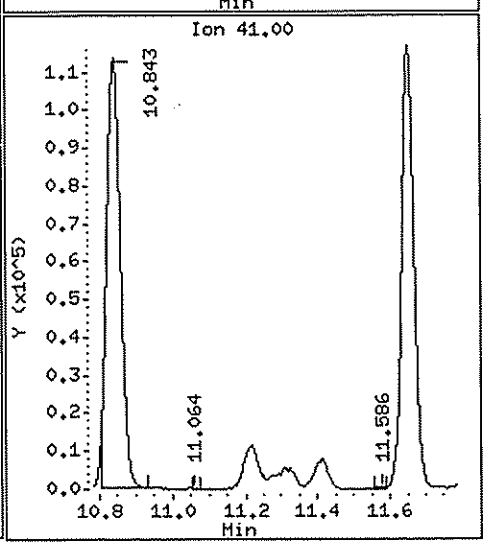












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

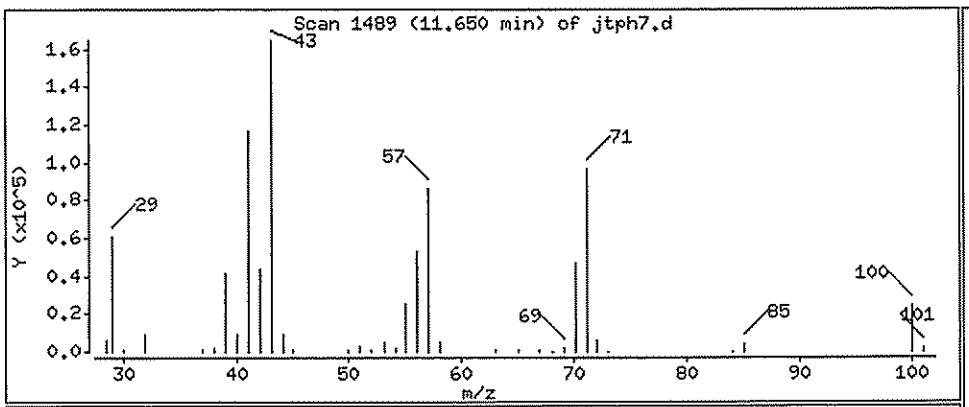
Client ID: SV-13(A,A) Instrument: mj.i

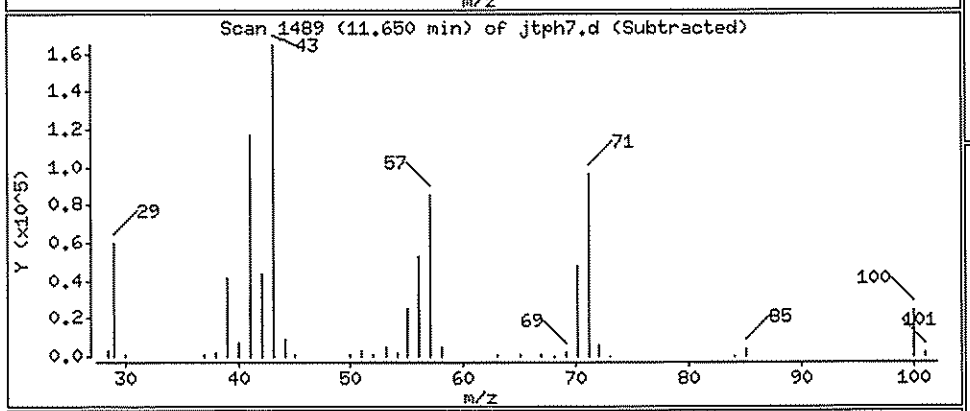
Sample Info: JTPH71AD,,0,,,

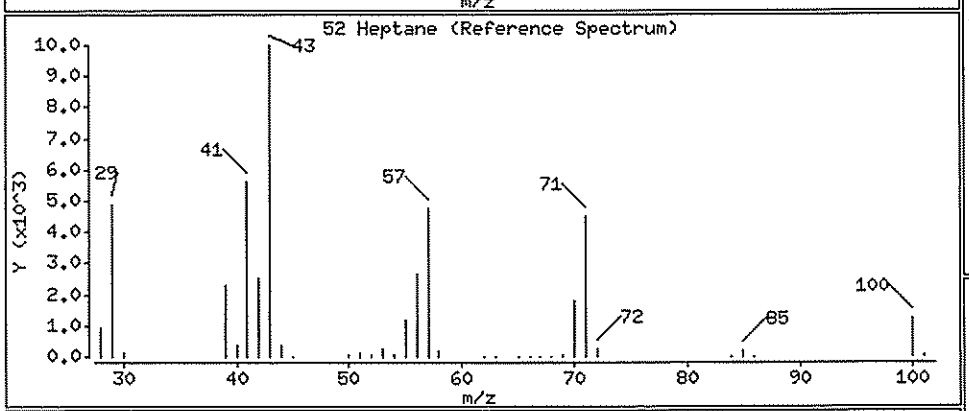
Purge Volume: 500.0 Operator: 7126

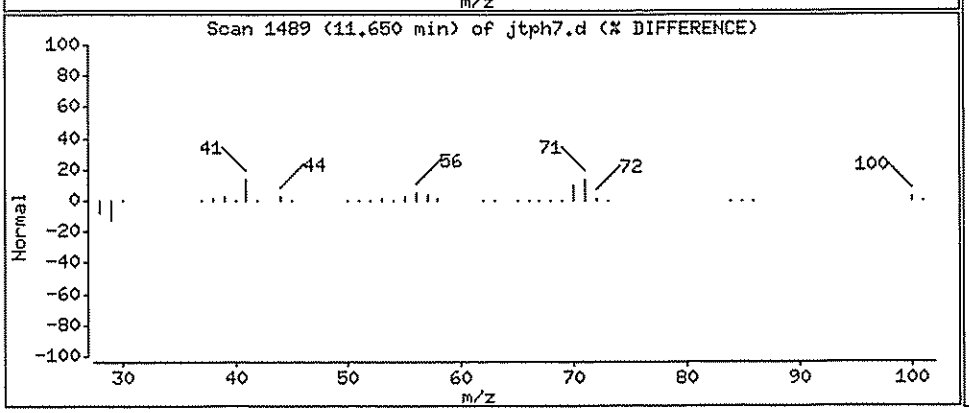
Column phase: Rtx-5 Column diameter: 0.32

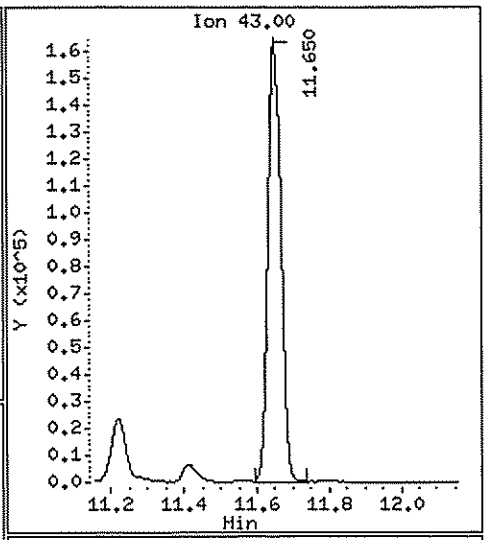
52 Heptane Concentration: 4.210 ppb(v/v)

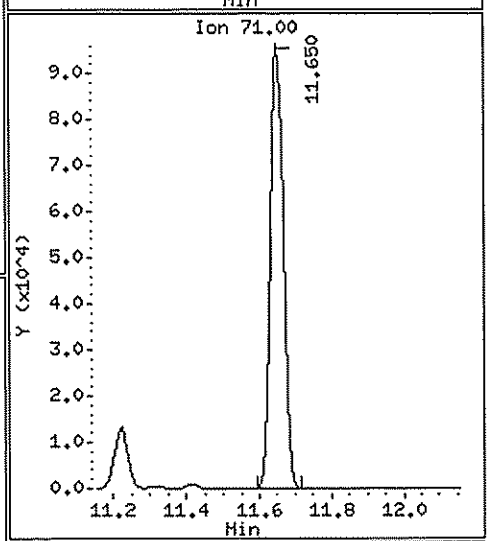


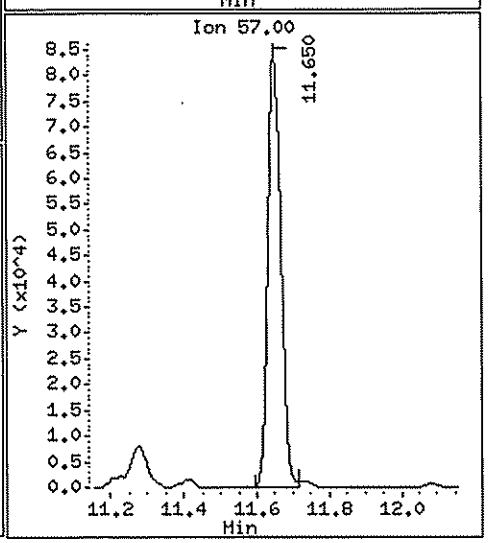












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

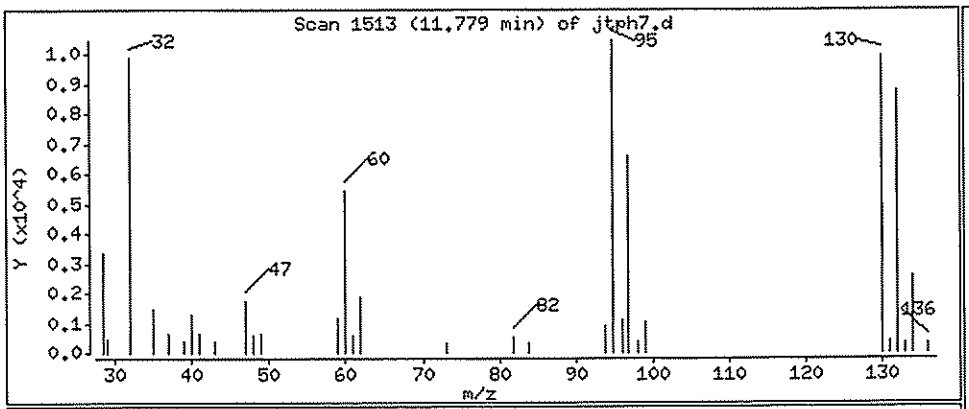
Client ID: SV-13(A,A) Instrument: mj.i

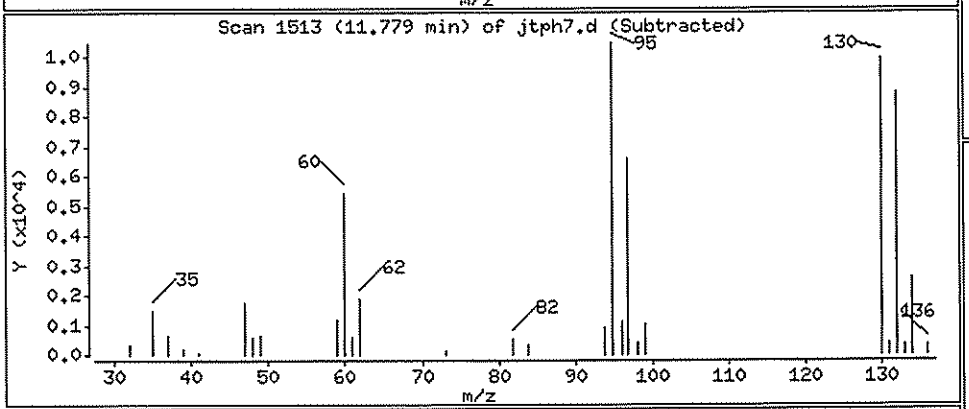
Sample Info: JTPH71AD,,0,,,

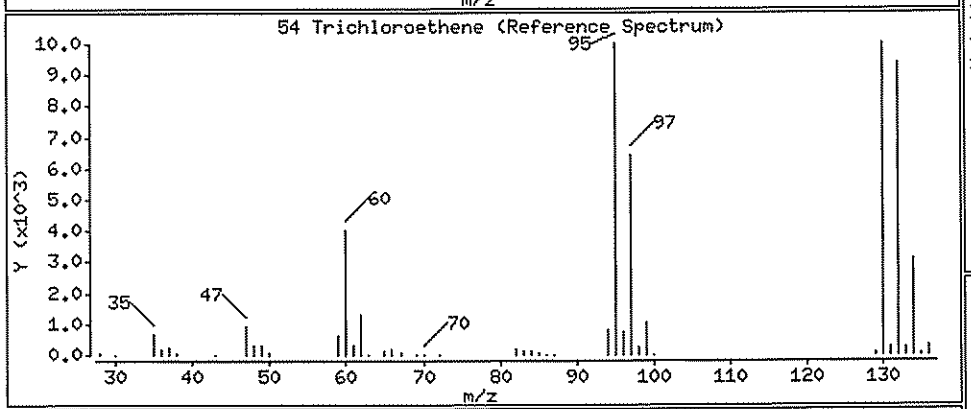
Purge Volume: 500.0 Operator: 7126

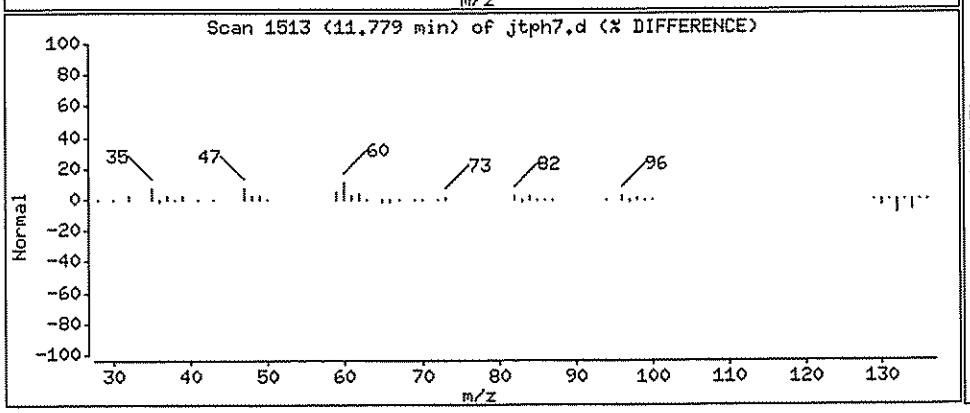
Column phase: Rtx-5 Column diameter: 0.32

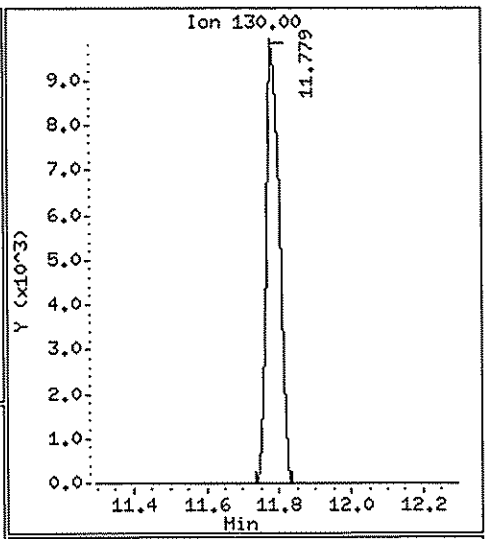
54 Trichloroethene Concentration: 0.2576 ppb(v/v)

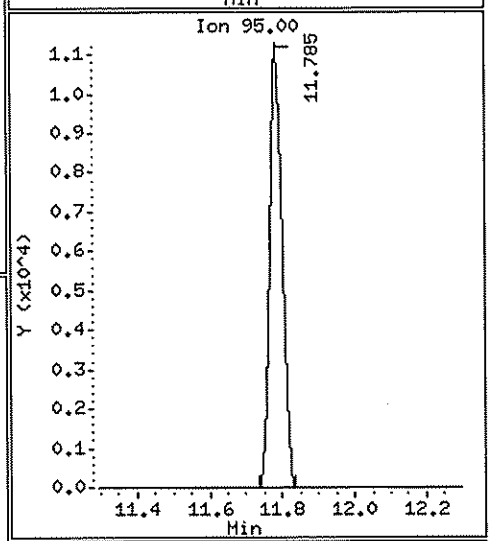


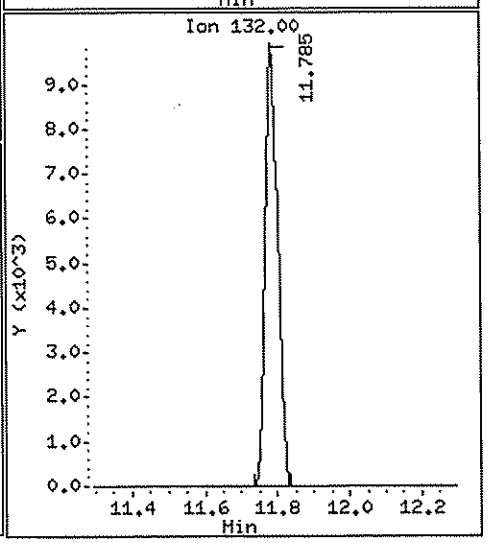












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

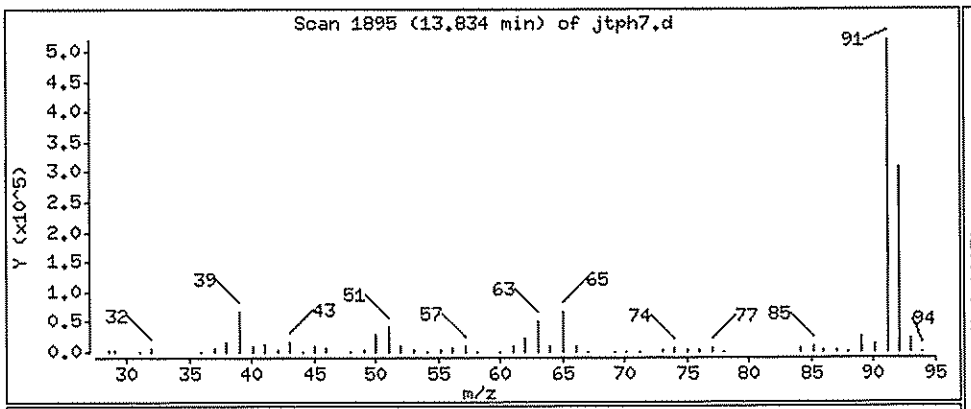
Client ID: SV-13(A,A) Instrument: mj.i

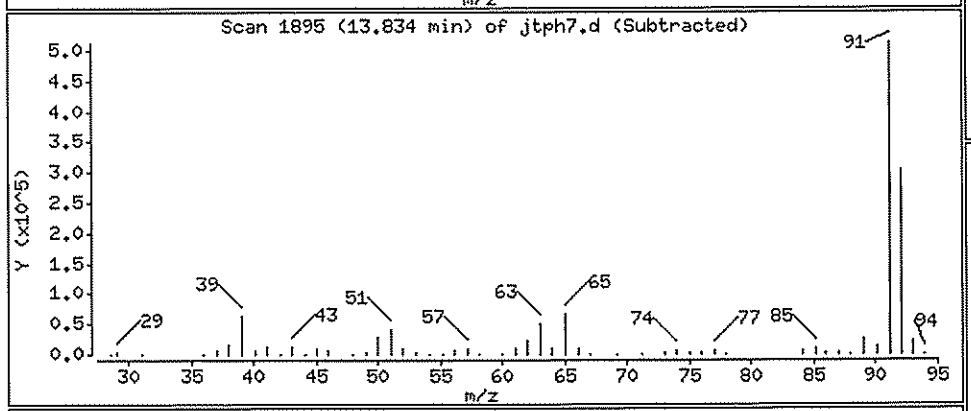
Sample Info: JTPH71AD,,0,,,

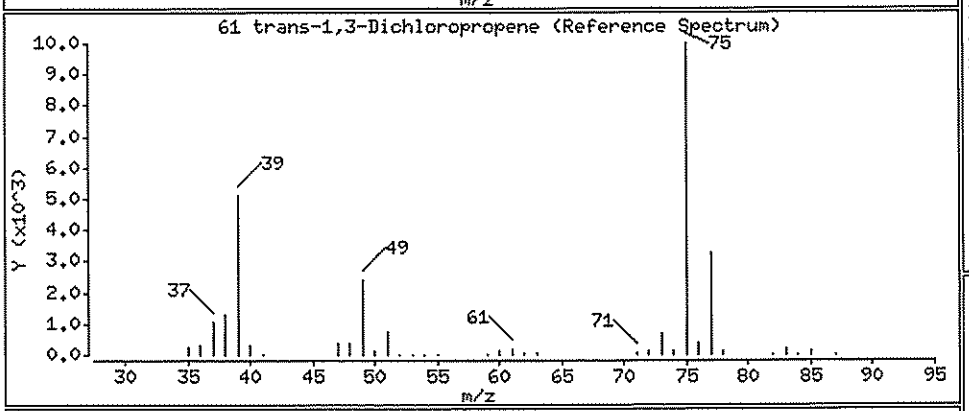
Purge Volume: 500.0 Operator: 7126

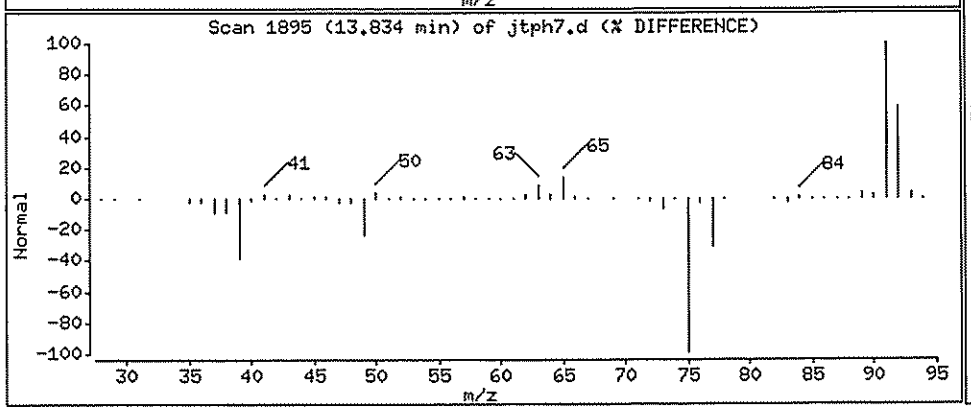
Column phase: Rtx-5 Column diameter: 0.32

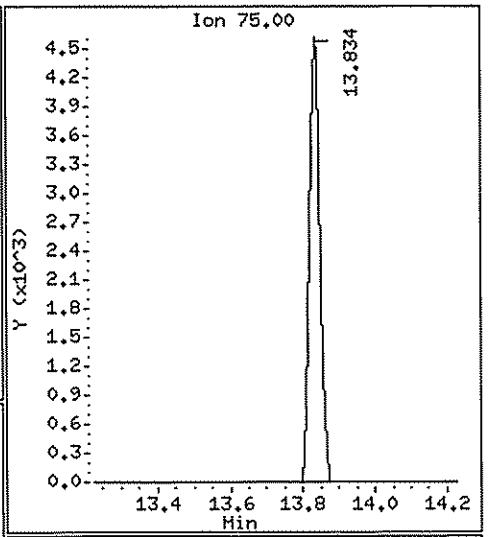
61 trans-1,3-Dichloropropene Concentration: 0.1240 ppb(v/v)

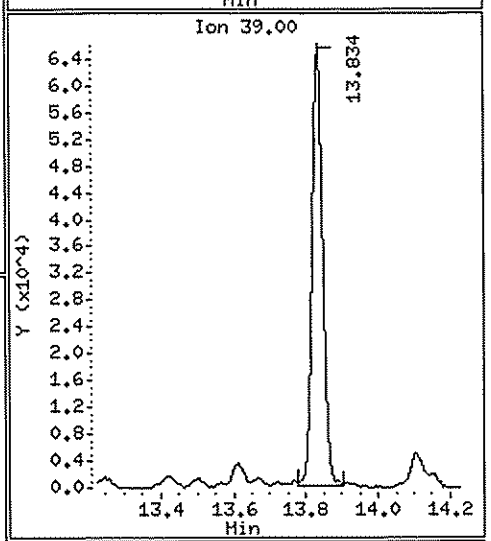


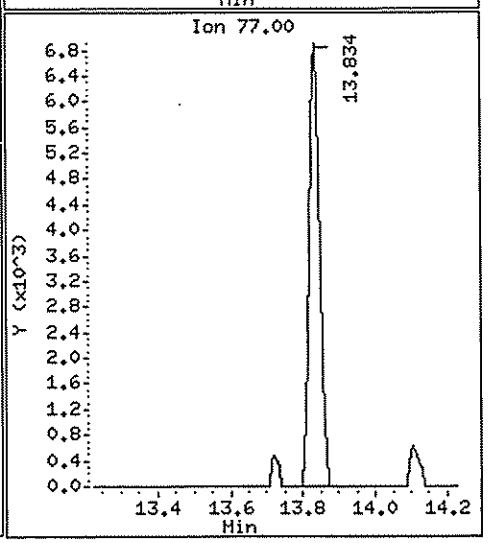












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

Client ID: SV-13(A,A)

Instrument: mj.i

Sample Info: JTPH71AD,,0,,,

Purge Volume: 500.0

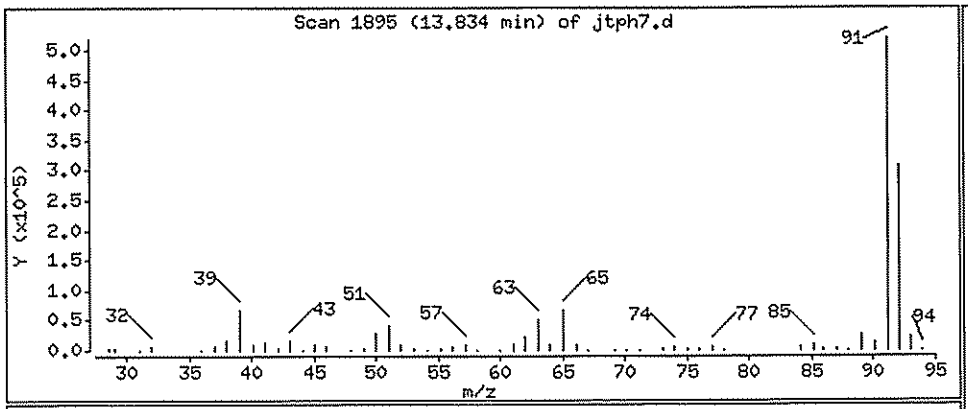
Operator: 7126

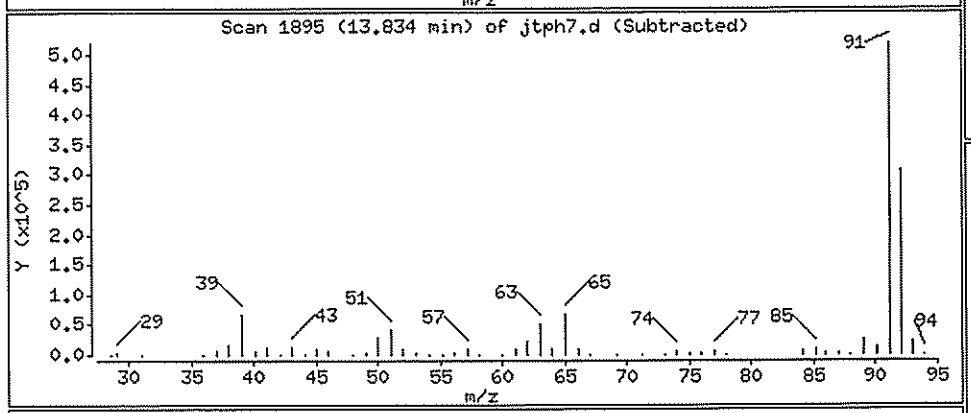
Column phase: Rtx-5

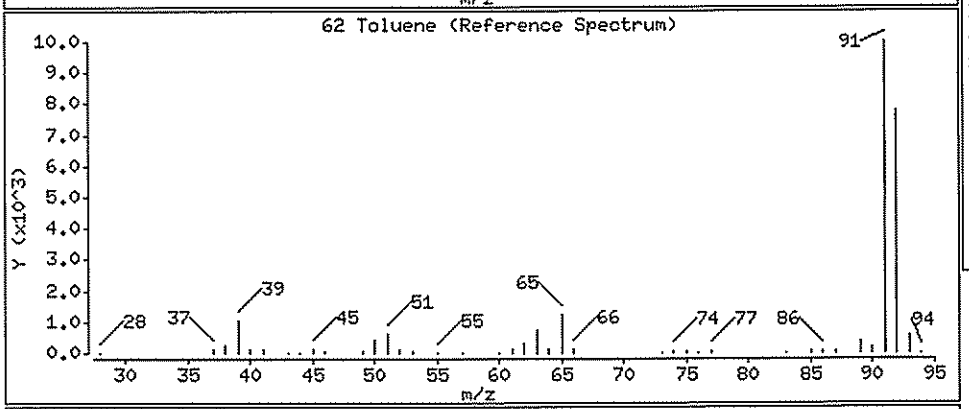
Column diameter: 0.32

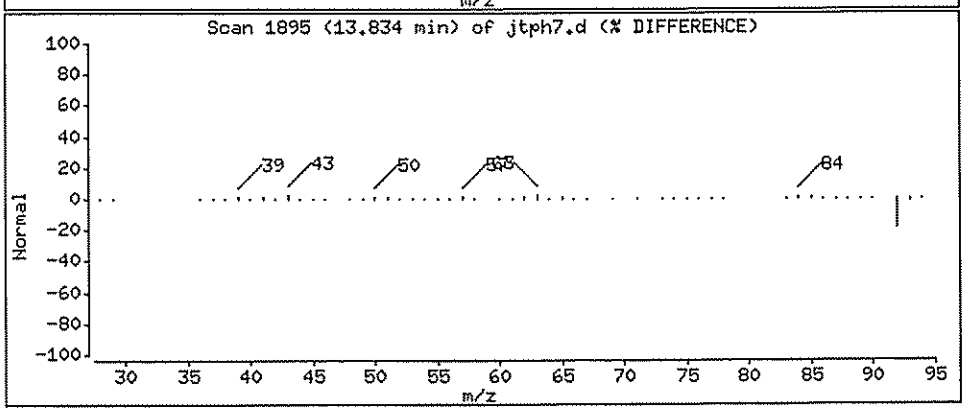
62 Toluene

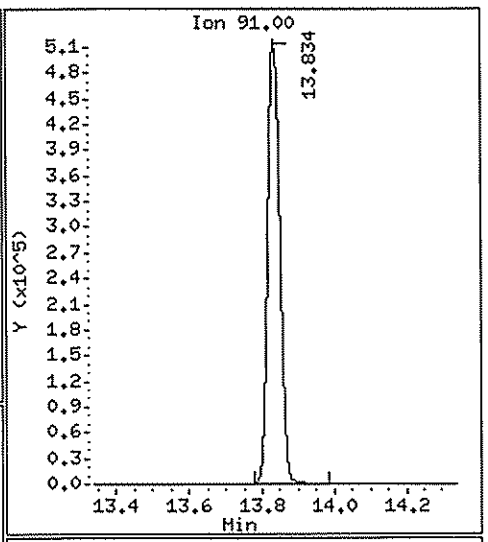
Concentration: 8.247 ppb(v/v)

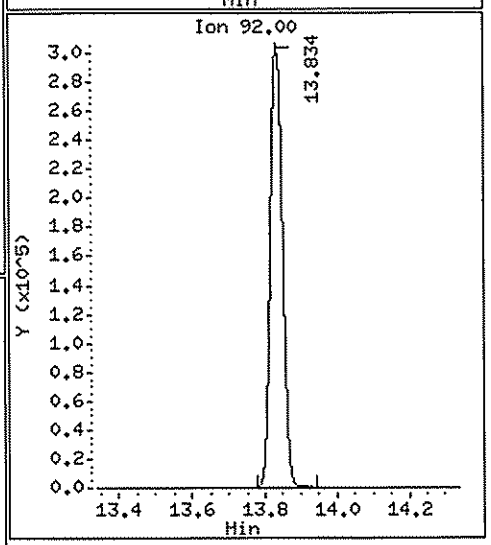












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

Client ID: SV-13(A,A)

Instrument: mj.i

Sample Info: JTPH71AD,,0,,,

Purge Volume: 500.0

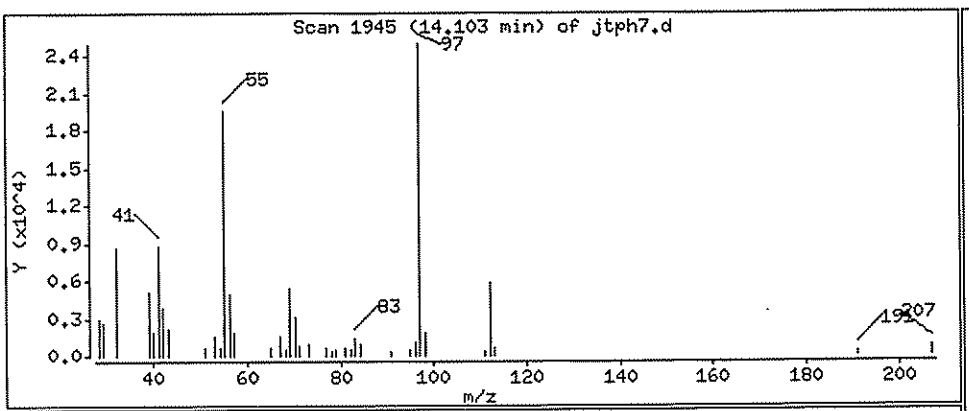
Operator: 7126

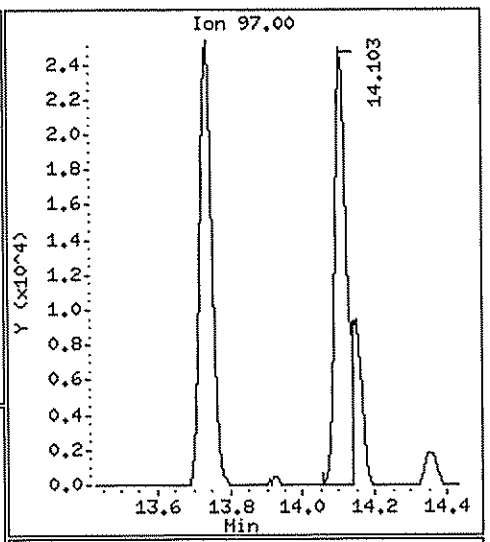
Column phase: Rtx-5

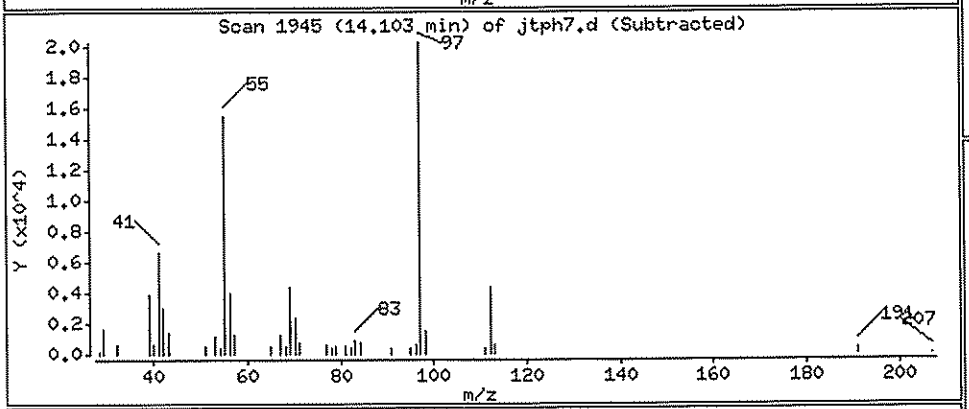
Column diameter: 0.32

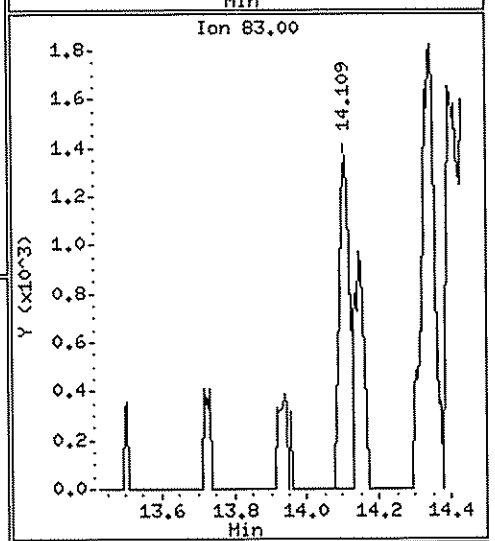
63 1,1,2-Trichloroethane

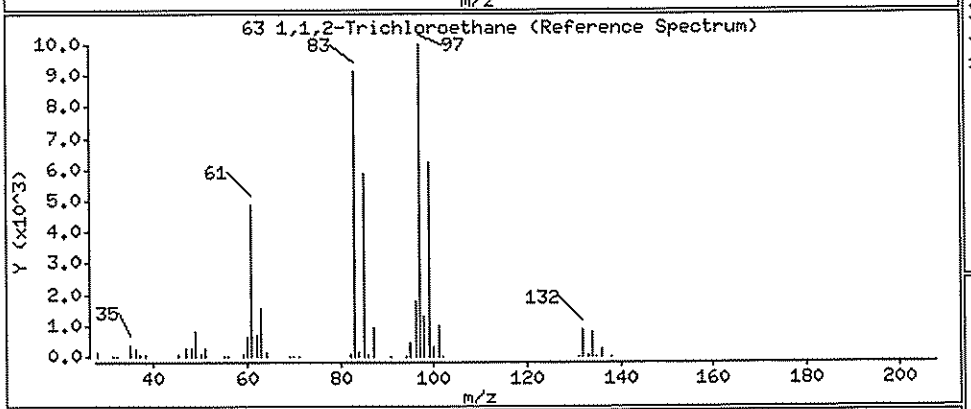
Concentration: 1.246 ppb(v/v)

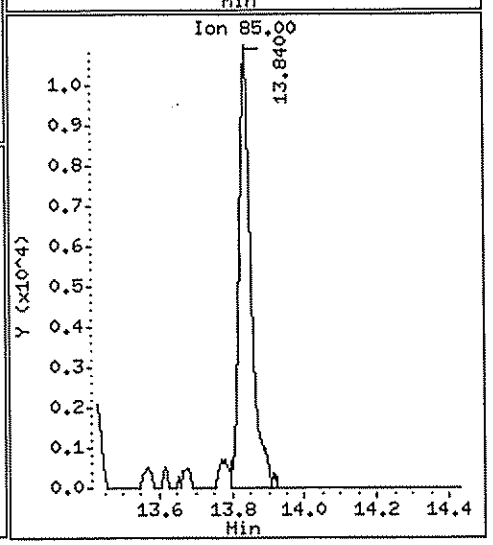


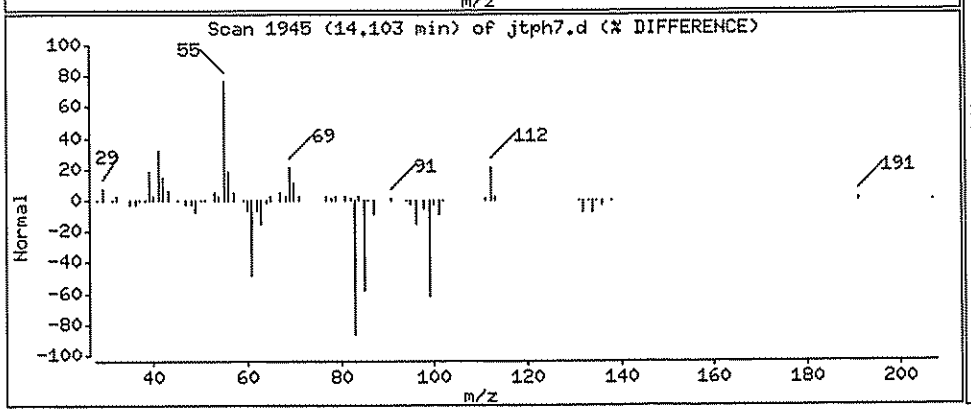












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

Client ID: SV-13(A,A)

Instrument: mj.i

Sample Info: JTPH71AD,,0,,,

Purge Volume: 500.0

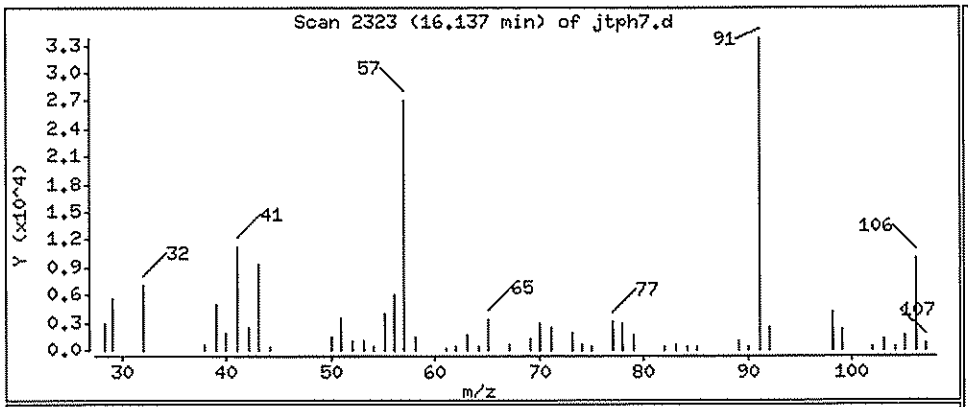
Operator: 7126

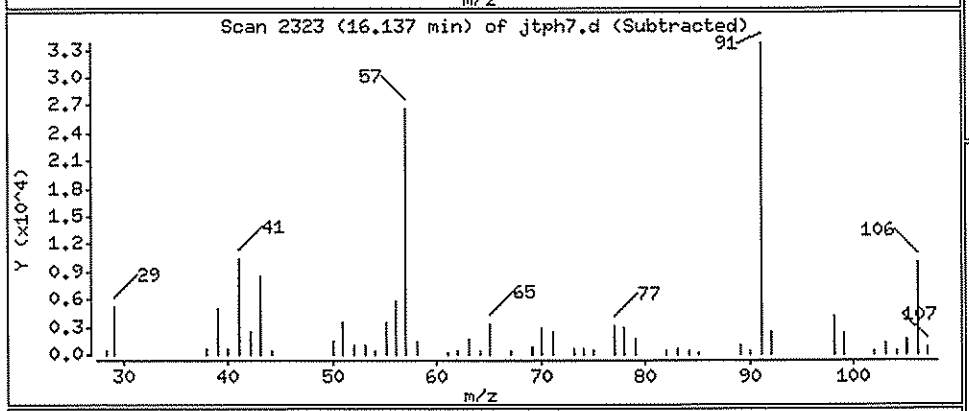
Column phase: Rtx-5

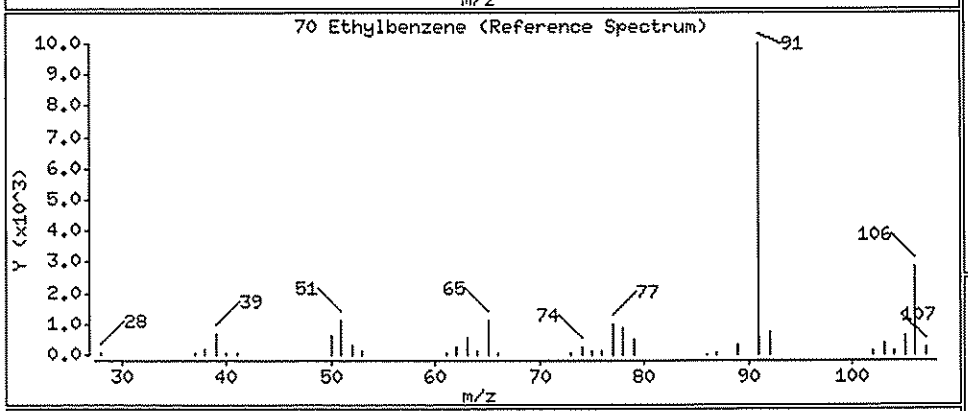
Column diameter: 0.32

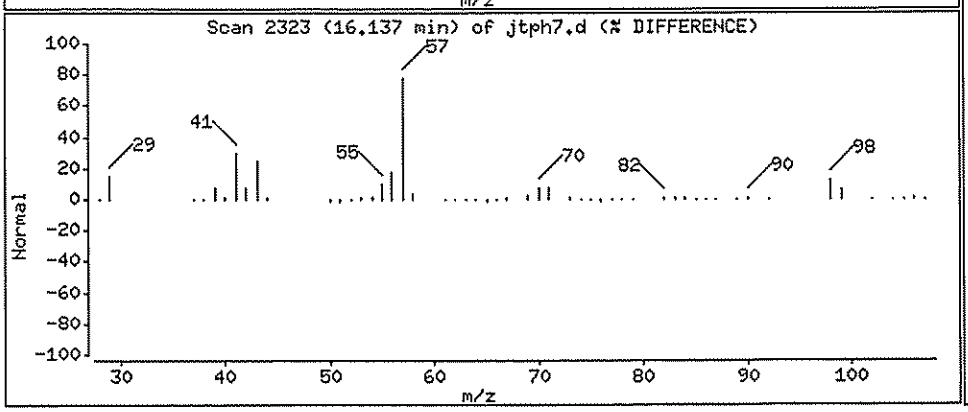
70 Ethylbenzene

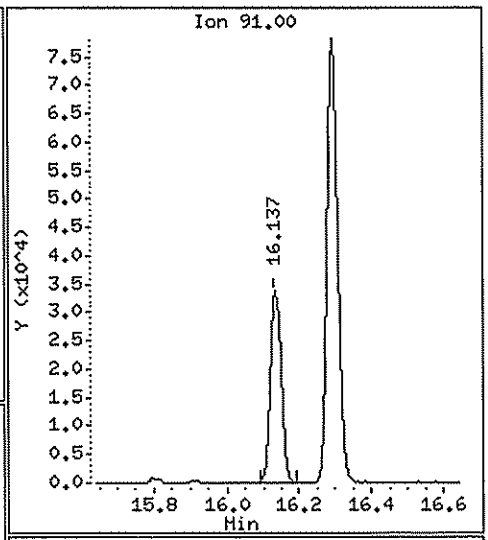
Concentration: 0.4069 ppb(v/v)

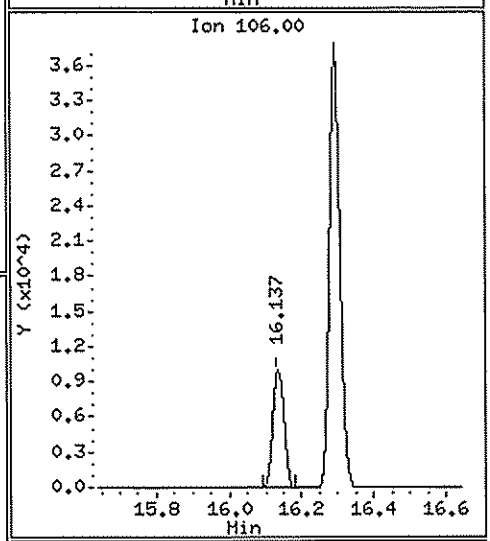


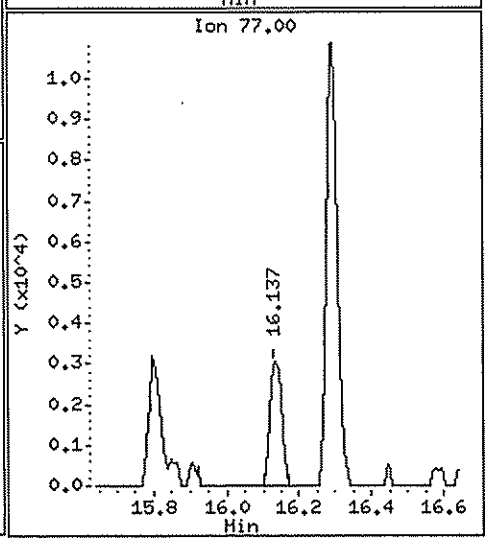












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

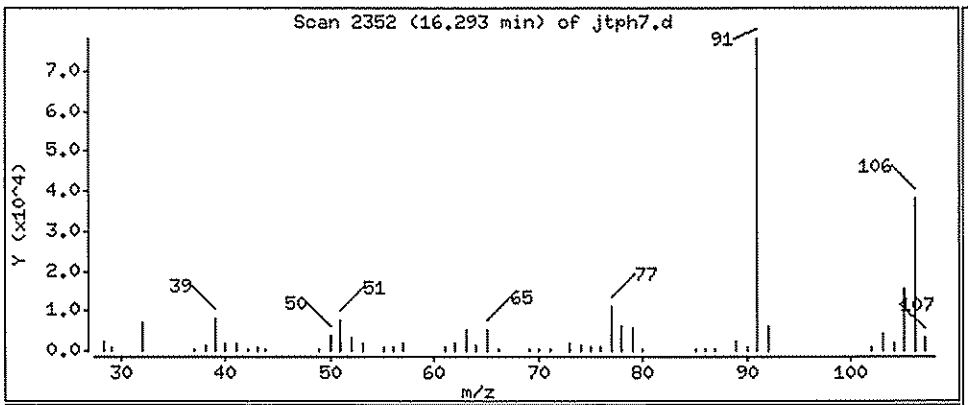
Client ID: SV-13(A,A) Instrument: mj.i

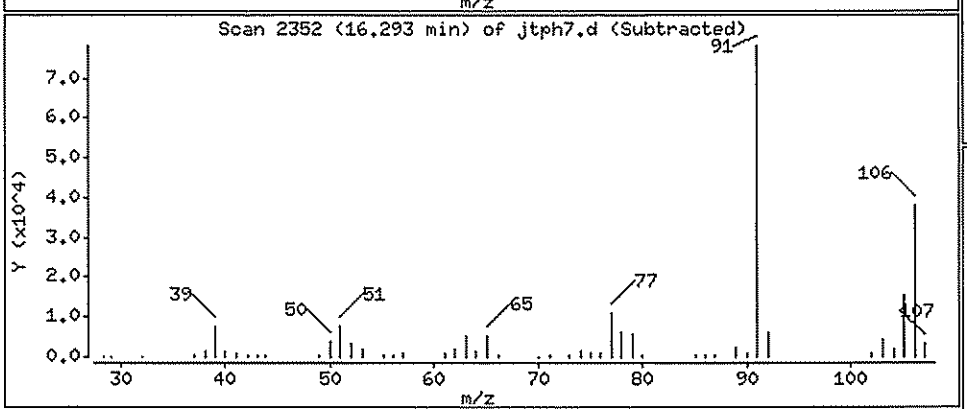
Sample Info: JTPH71AD,,0,,,

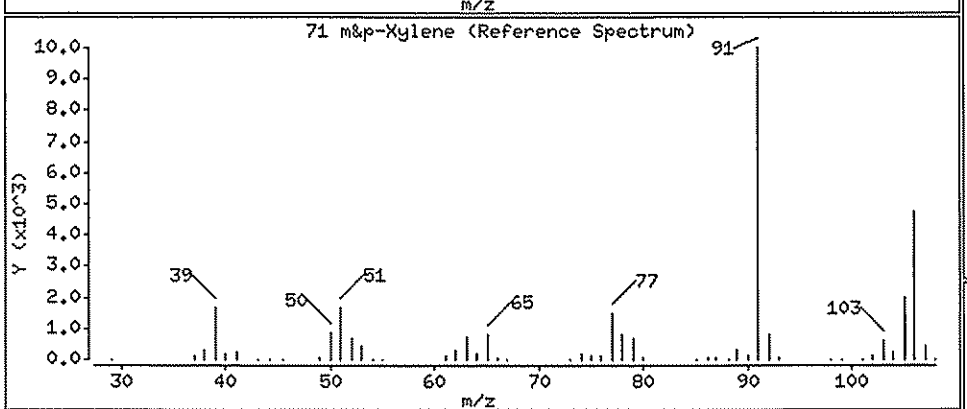
Purge Volume: 500.0 Operator: 7126

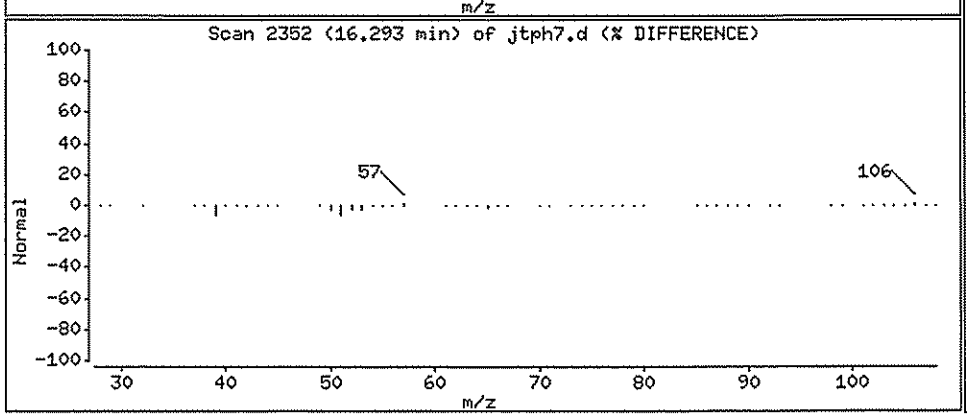
Column phase: Rtx-5 Column diameter: 0.32

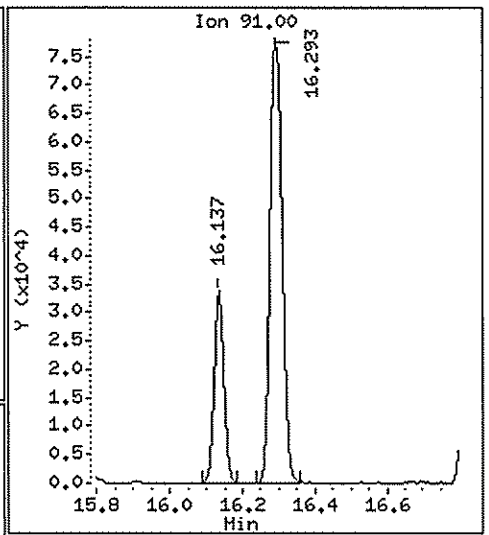
71 m&p-Xylene Concentration: 1.363 ppb(v/v)

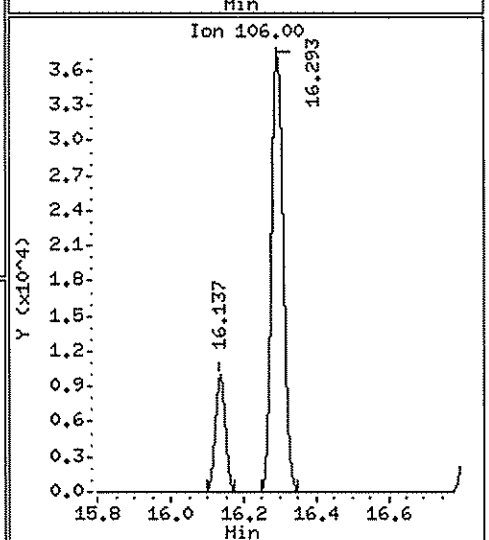


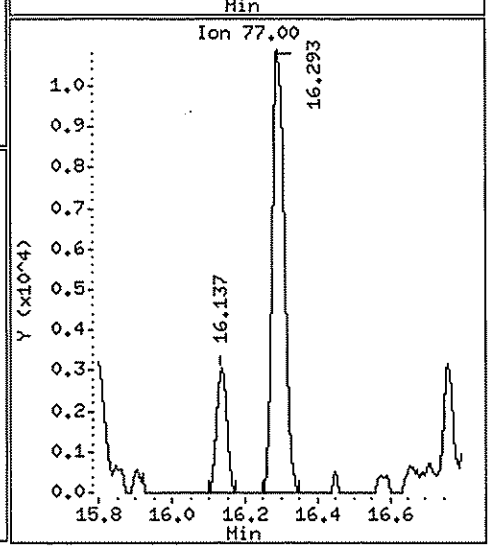












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

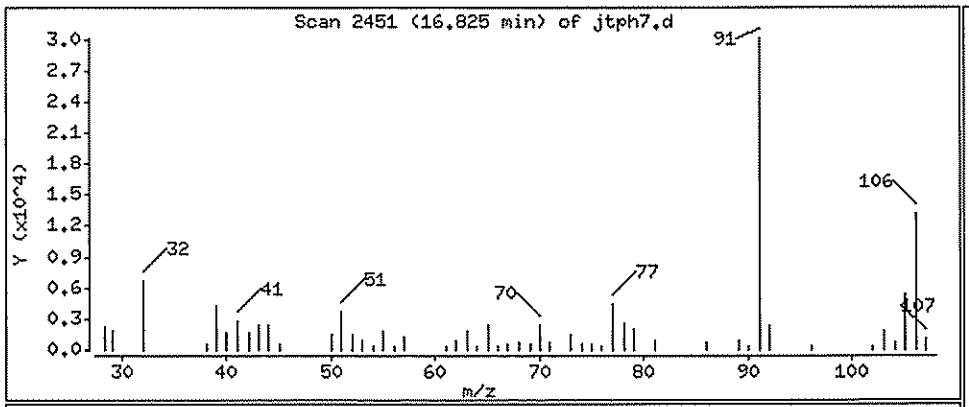
Client ID: SV-13(A.A) Instrument: mj.i

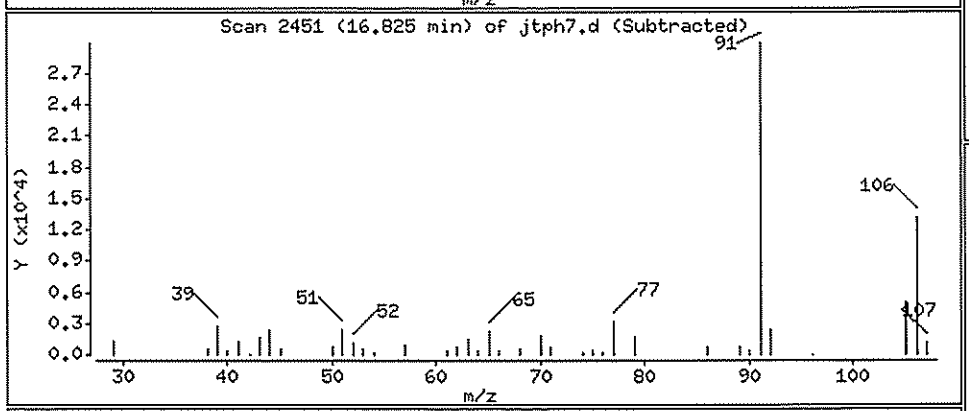
Sample Info: JTPH71AD,,0,,,

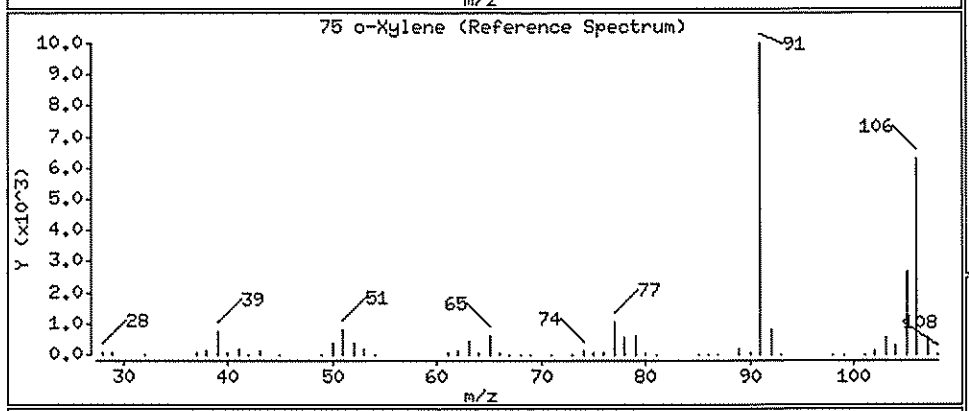
Purge Volume: 500.0 Operator: 7126

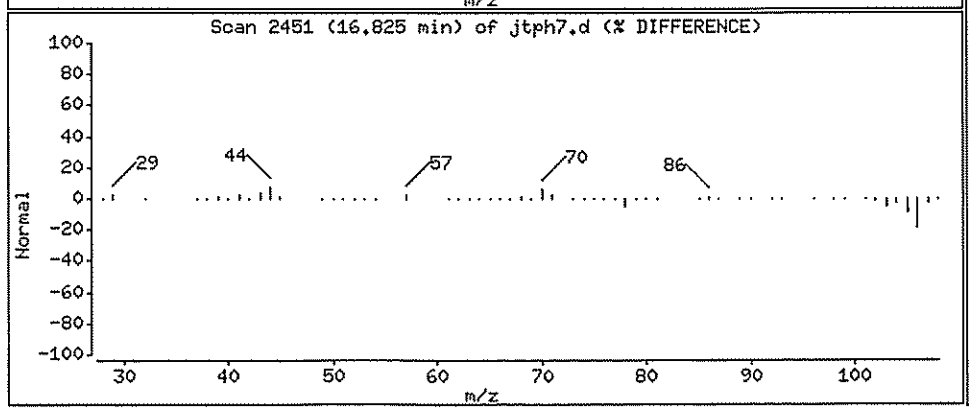
Column phase: Rtx-5 Column diameter: 0.32

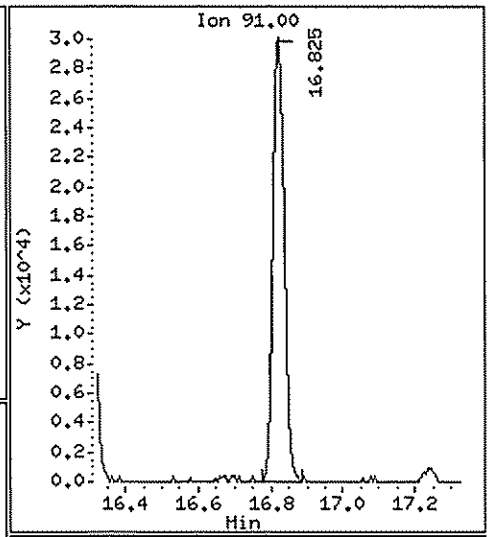
75 o-Xylene Concentration: 0.4529 ppb(v/v)

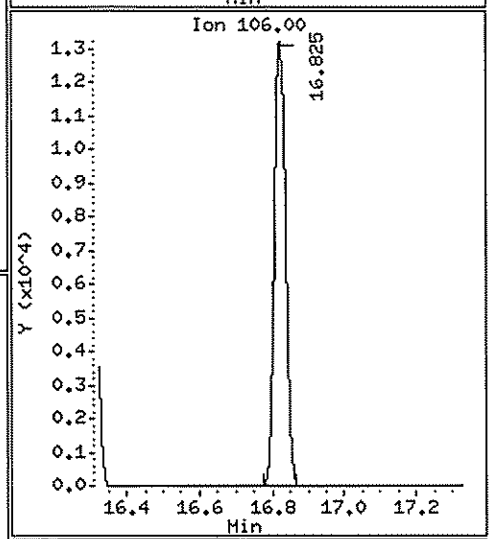


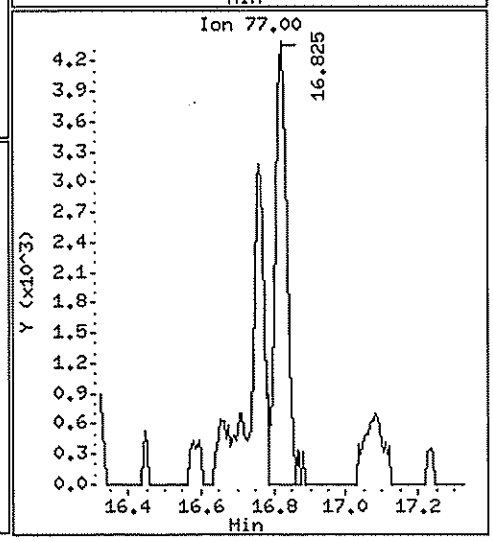












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

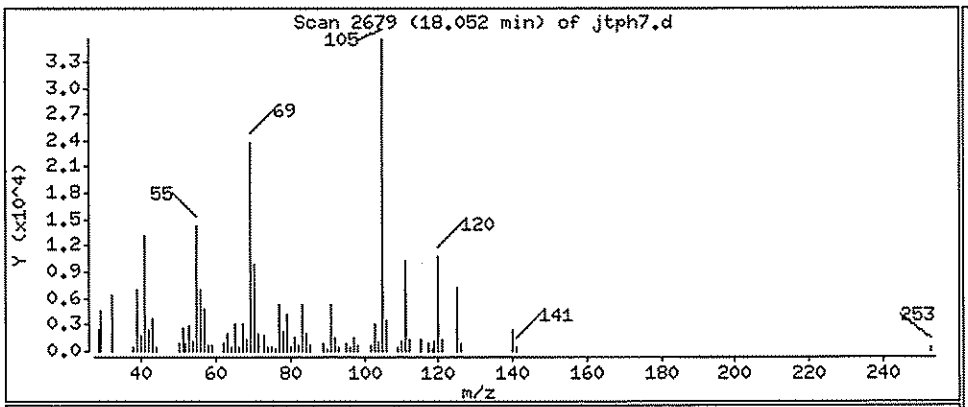
Client ID: SV-13(A,A) Instrument: mj.i

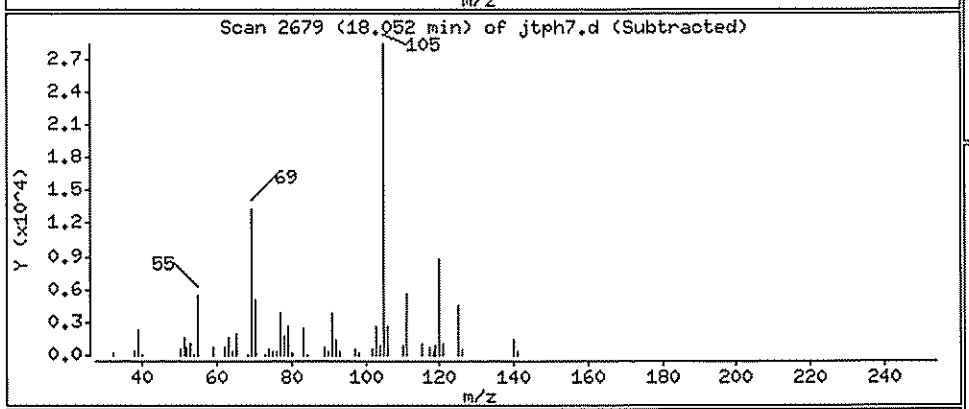
Sample Info: JTPH71AD,,0,,,

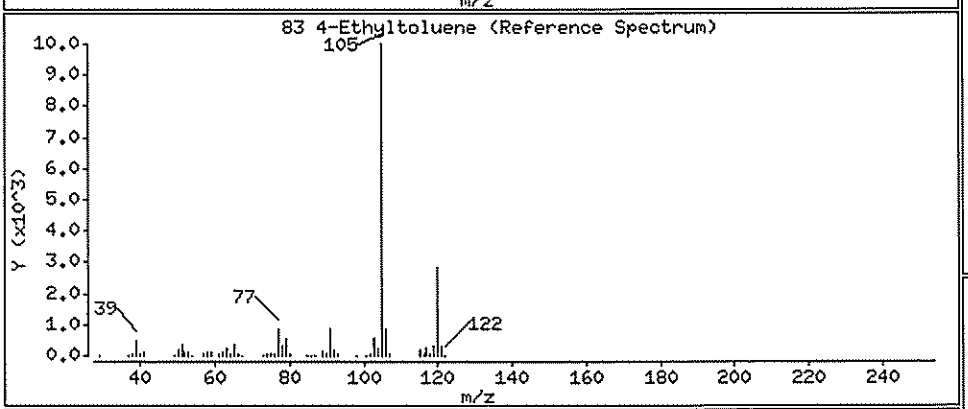
Purge Volume: 500.0 Operator: 7126

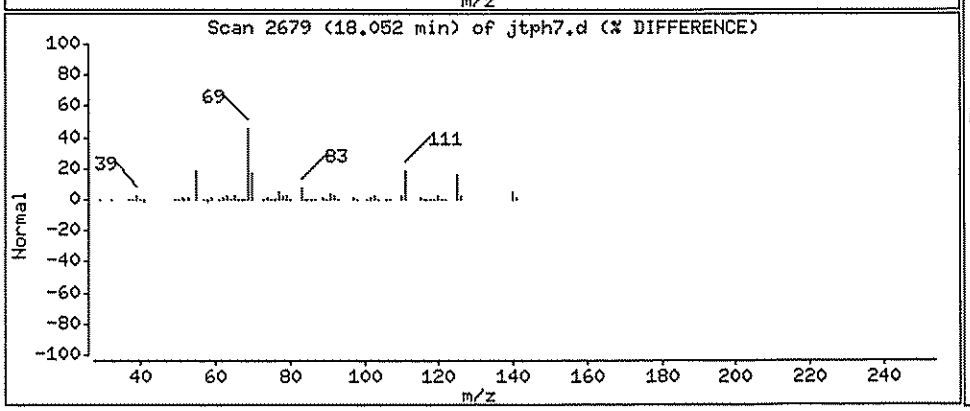
Column phase: Rtx-5 Column diameter: 0.32

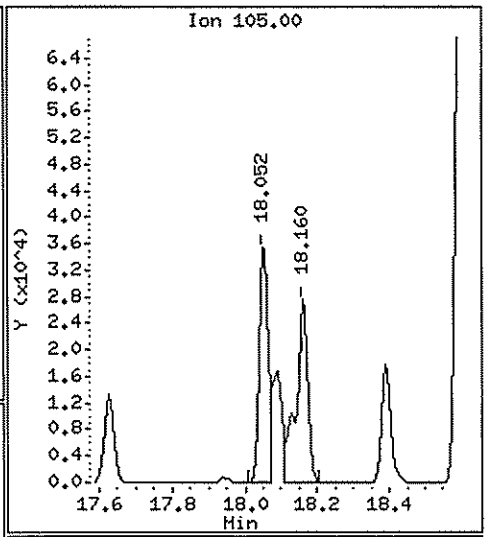
83 4-Ethyltoluene Concentration: 0.3675 ppb(v/v)

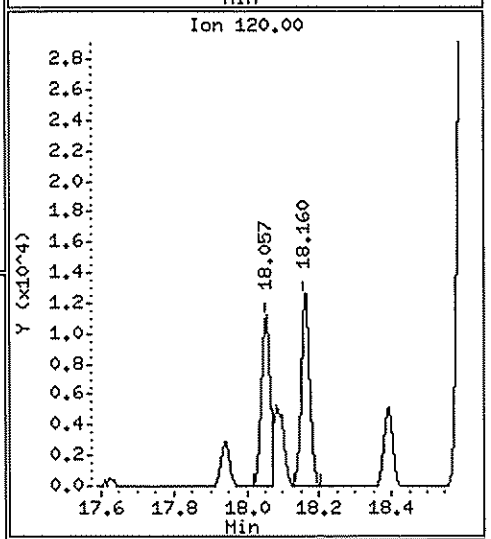


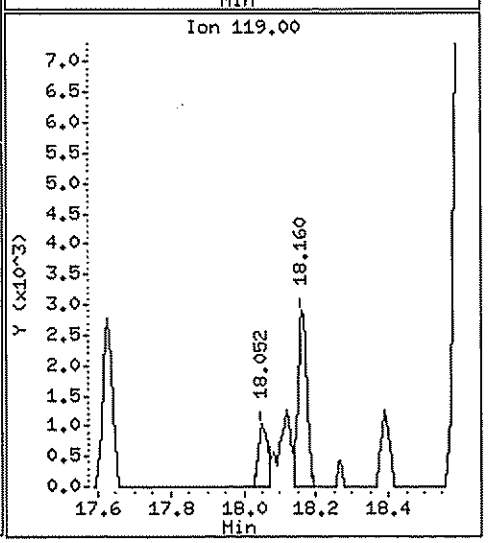












Data File: /var/chem/gcms/mj.i/J041707.b/jtph7.d

Date : 17-APR-2007 21:24

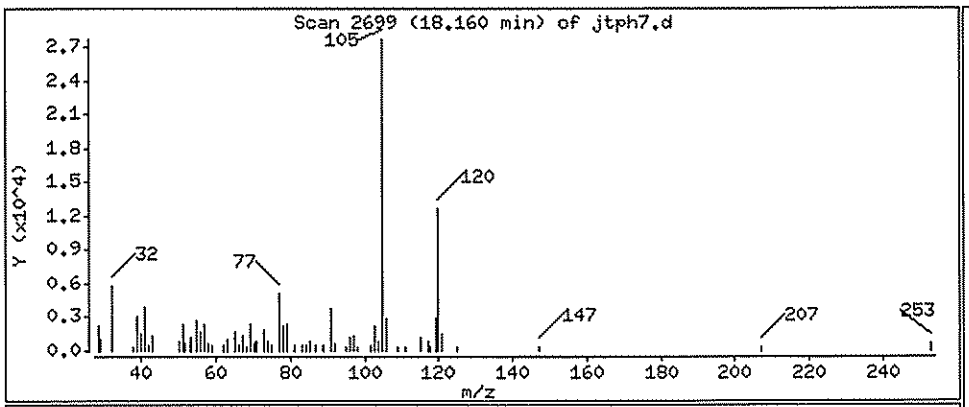
Client ID: SV-13(A,A) Instrument: mj.i

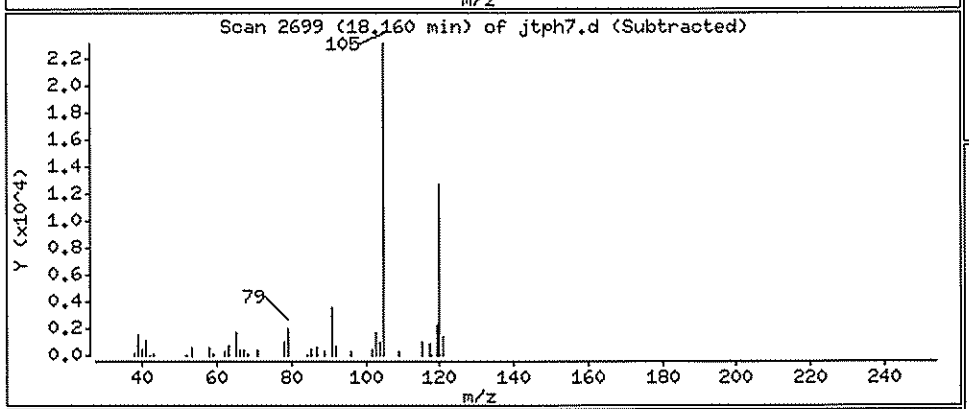
Sample Info: JTPH71AD,,0,,,

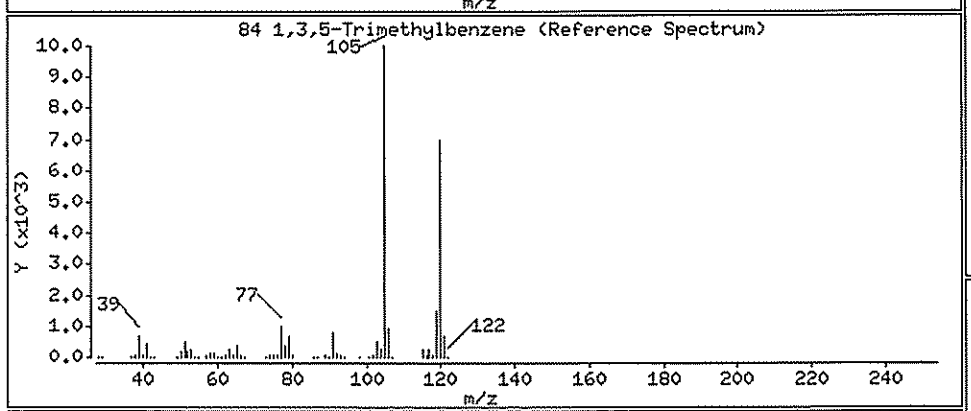
Purge Volume: 500.0 Operator: 7126

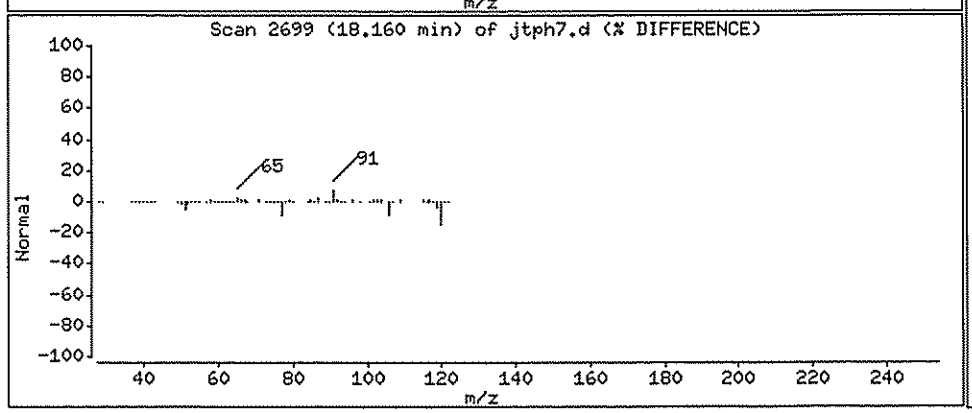
Column phase: Rtx-5 Column diameter: 0.32

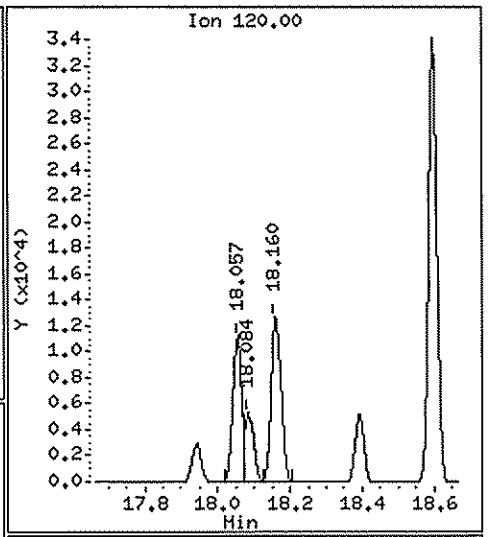
84 1,3,5-Trimethylbenzene Concentration: 0.3398 ppb(v/v)

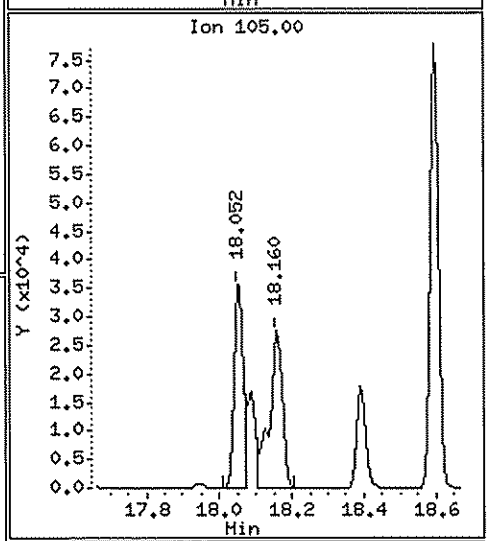


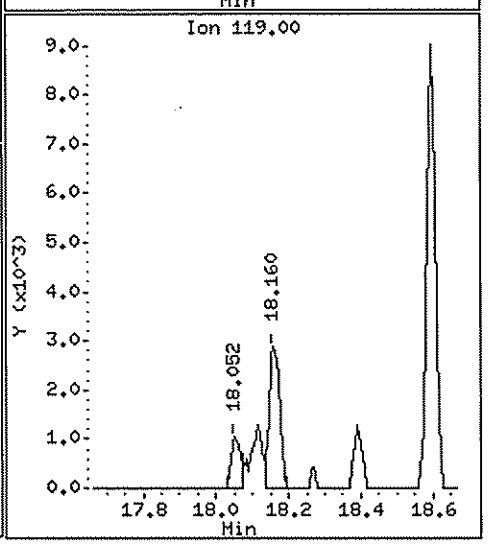












AKRF-White Plains

Client Sample ID: SV-14(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 009 **Work Order #** JTPH91AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/17/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7108057
Dilution Factor.: 2 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.16	ND	0.73
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.16	ND	1.1
Ethylbenzene	ND	0.16	ND	0.69
Trichlorofluoromethane	**0.27**	**0.16**	**1.5**	**0.90**
n-Heptane	ND	0.40	ND	1.6
n-Hexane	**5.0**	**0.40**	**18**	**1.4**
2,2,4-Trimethylpentane	ND	0.40	ND	1.9
Benzene	**0.80**	**0.16**	**2.6**	**0.51**
1,1,2,2-Tetrachloroethane	ND	0.16	ND	1.1
Tetrachloroethene	ND	0.16	ND	1.1
Toluene	**1.6**	**0.16**	**6.2**	**0.60**
1,1,1-Trichloroethane	ND	0.16	ND	0.87
1,1,2-Trichloroethane	ND	0.16	ND	0.87
Trichloroethene	**0.085**	**0.080**	**0.46**	**0.43**
1,3,5-Trimethylbenzene	ND	0.16	ND	0.79
Vinyl chloride	ND	0.16	ND	0.41
o-Xylene	ND	0.16	ND	0.69
Methyl tert-butyl ether	**0.91**	**0.80**	**3.3**	**2.9**
m-Xylene & p-Xylene	ND	0.16	ND	0.69
Bromodichloromethane	ND	0.16	ND	1.1
1,2-Dibromoethane (EDB)	ND	0.16	ND	1.2
Vinyl bromide	ND	0.16	ND	0.70
Bromoform	ND	0.16	ND	1.7
Bromomethane	ND	0.16	ND	0.62
1,3-Butadiene	ND	0.32	ND	0.71
4-Ethyltoluene	ND	0.32	ND	1.6
Carbon tetrachloride	ND	0.080	ND	0.50
Dibromochloromethane	ND	0.16	ND	1.4
Chloroethane	ND	0.16	ND	0.42
Chloroform	ND	0.16	ND	0.78
3-Chloropropene	ND	0.16	ND	0.50
Cyclohexane	**5.0**	**0.40**	**17**	**1.4**
Dichlorodifluoromethane	**0.47**	**0.16**	**2.3**	**0.79**
1,1-Dichloroethane	ND	0.16	ND	0.65
1,2-Dichloroethane	ND	0.16	ND	0.65
1,1-Dichloroethene	ND	0.16	ND	0.63
cis-1,2-Dichloroethene	ND	0.16	ND	0.63
trans-1,2-Dichloroethene	ND	0.16	ND	0.63
1,2-Dichloropropane	ND	0.16	ND	0.74

TO-14 _rev5.rpt version 5.0.103 10/12/2006

AKRF-White Plains

Client Sample ID: SV-14(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 009 **Work Order #** JTPH91AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.16	ND	0.73

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	102	70 - 130
Toluene-d8	105	70 - 130
4-Bromofluorobenzene	102	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TO-14 _rev5.rpt version 5.0.103 10/12/2006

Data File: /var/chem/gcms/mj.i/J041707.b/jtph9.d
Report Date: 18-Apr-2007 12:00

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041707.b/jtph9.d
Lab Smp Id: JTPH91AD Client Smp ID: SV-14(S.S)
Inj Date : 17-APR-2007 22:01
Operator : 7126 Inst ID: mj.i
Smp Info : JTPH91AD,2,0,,,
Misc Info : J041707,TO15,mabna.sub,,,250 ML
Comment :
Method : /var/chem/gcms/mj.i/J041707.b/TO15.m
Meth Date : 18-Apr-2007 11:59 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 21
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: magna.sub
Target Version: 3.50

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

Name	Value	Description
DF	2.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

04/20/07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.897	8.894	(1.000)	180352	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.086	11.089	(1.000)	747924	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.804	15.806	(1.000)	645917	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.903	9.911	(0.893)	194435	4.08547	4.085
$ 5 Toluene-d8	98	13.722	13.725	(0.868)	657782	4.18479	4.185
$ 6 4-Bromofluorobenzene	95	17.439	17.442	(1.103)	532321	4.08420	4.084
8 Dichlorodifluoromethane	85	3.776	3.773	(0.424)	50553	0.23372	0.4674
20 Trichlorofluoromethane	101	5.260	5.263	(0.591)	29108	0.13519	0.2704
36 Methyl-t-Butyl Ether	73	7.348	7.318	(0.826)	56248	0.45494	0.9099
39 Hexane	56	8.133	8.135	(0.914)	116709	2.52040	5.041
47 Cyclohexane	69	10.527	10.529	(0.950)	80478	2.49652	4.993
49 Benzene	78	10.538	10.540	(0.950)	72372	0.40161	0.8032
51 2,2,4-trimethylpentane	57	11.081	11.282	(1.000)	65909	0.22172	~~0.4434~~
54 Trichloroethene	130	11.791	11.793	(1.064)	4508	0.04275	0.08549
62 Toluene	91	13.841	13.838	(0.876)	138402	0.82304	1.646
63 1,1,2-Trichloroethane	97	13.738	13.929	(0.869)	76599	1.26064	~~2.521~~

GM 4-19-07

Data File: /var/chem/gcms/mj.i/J041707.b/jtph9.d
Report Date: 18-Apr-2007 12:00

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jtph9.d
Lab Smp Id: JTPH91AD
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J041707.b/TO15.m
Misc Info: J041707,TO15,mabna.sub,,,250 ML

Calibration Date: 17-APR-2007
Calibration Time: 10:04
Client Smp ID: SV-14(S.S)
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	174498	103826	245170	180352	3.35
2 1,4-Difluorobenze	650922	387299	914545	747924	14.90
3 Chlorobenzene-d5	597966	355790	840142	645917	8.02

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.89	8.56	9.22	8.90	0.03
2 1,4-Difluorobenze	11.09	10.76	11.42	11.09	-0.02
3 Chlorobenzene-d5	15.81	15.48	16.14	15.80	-0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J041707.b/jtph9.d
Report Date: 18-Apr-2007 12:00

STL Knoxville

RECOVERY REPORT

Client Name: AKRF-White Plains
Sample Matrix: GAS
Lab Smp Id: JTPH91AD
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: magna.sub
Method File: /var/chem/gcms/mj.i/J041707.b/TO15.m
Misc Info: J041707,TO15,mabna.sub,,,250 ML

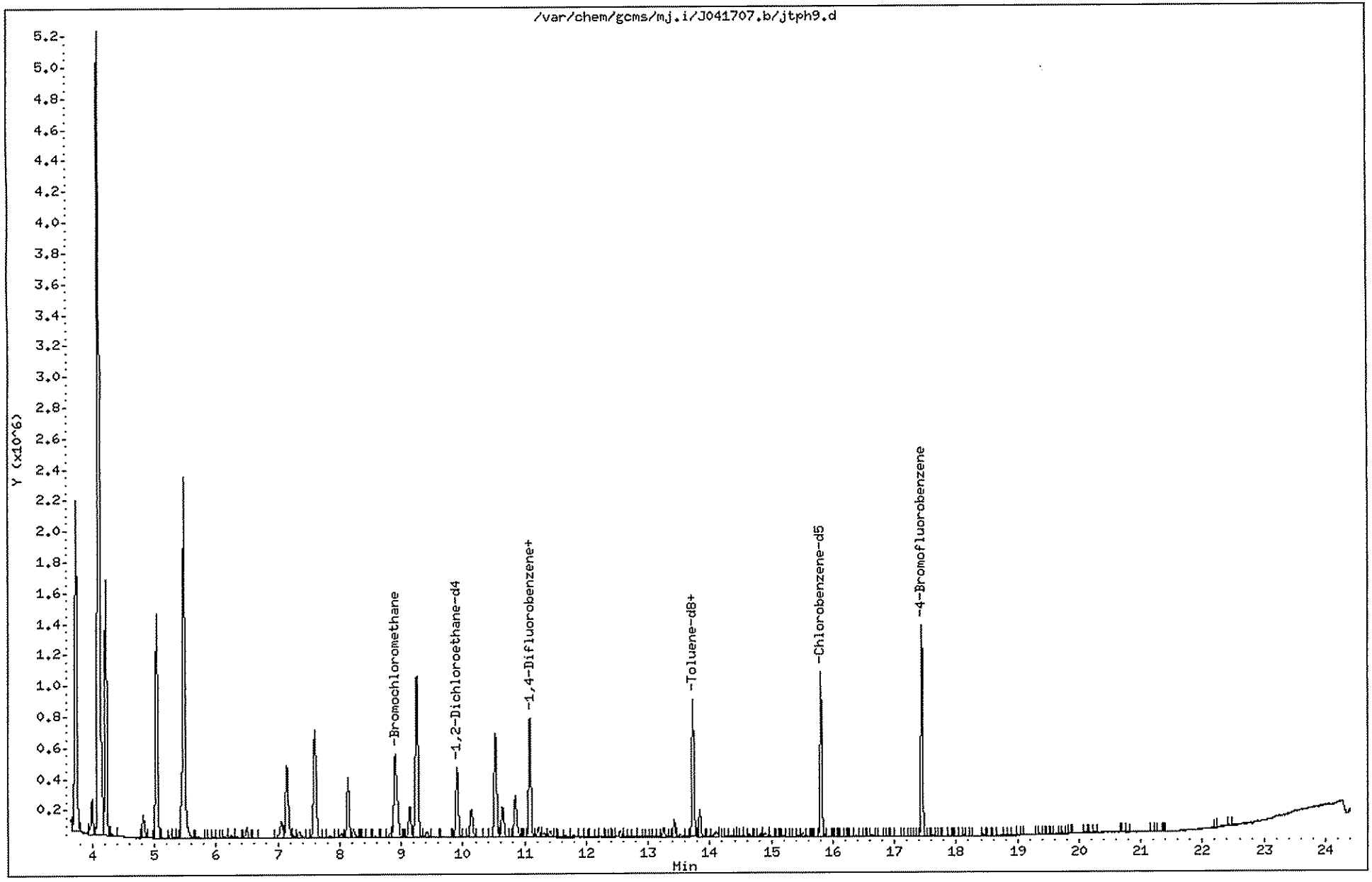
Client SDG: H7D110232
Fraction: OTHER
Client Smp ID: SV-14(S.S)
Operator: 7126
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	4.000	4.085	102.14	70-130
$ 5 Toluene-d8	4.000	4.185	104.62	70-130
$ 6 4-Bromofluorobenze	4.000	4.084	102.11	70-130

Data File: /var/chem/gcms/mj.i/J041707.b/jtph9.d
Date : 17-APR-2007 22:01
Client ID: SV-14(S,S)
Sample Info: JTPH91AD,2,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J041707.b/jtph9.d

Date : 17-APR-2007 22:01

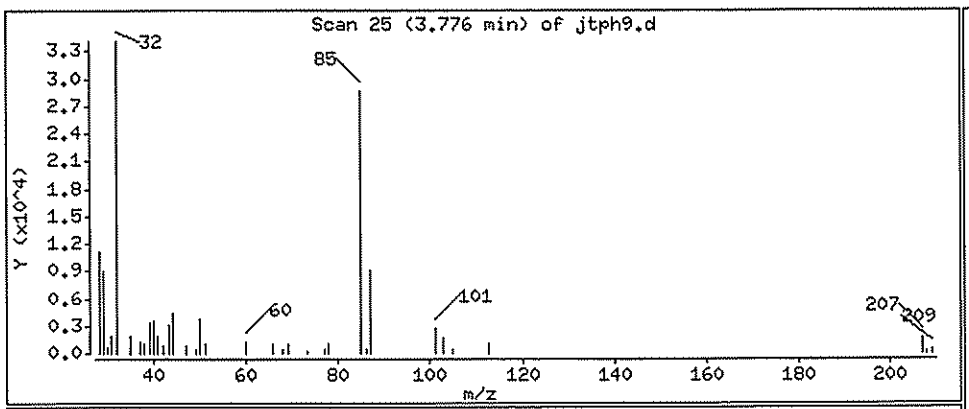
Client ID: SV-14(S.S) Instrument: mj.i

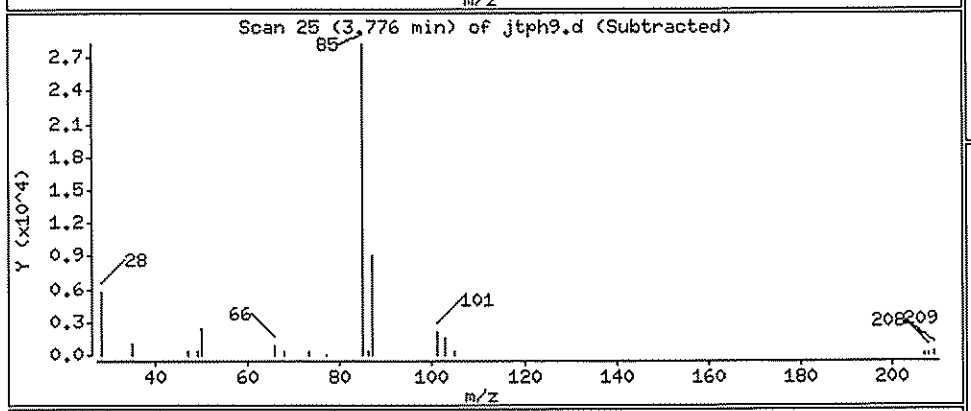
Sample Info: JTPH91AD,2,0,,,

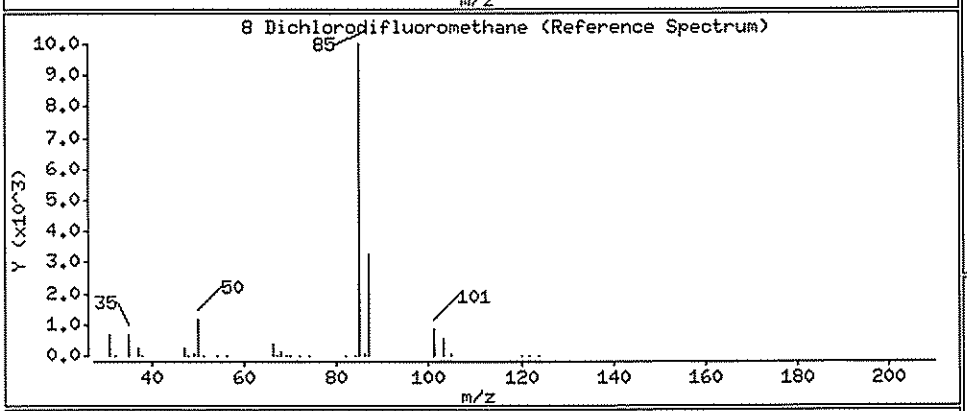
Purge Volume: 500.0 Operator: 7126

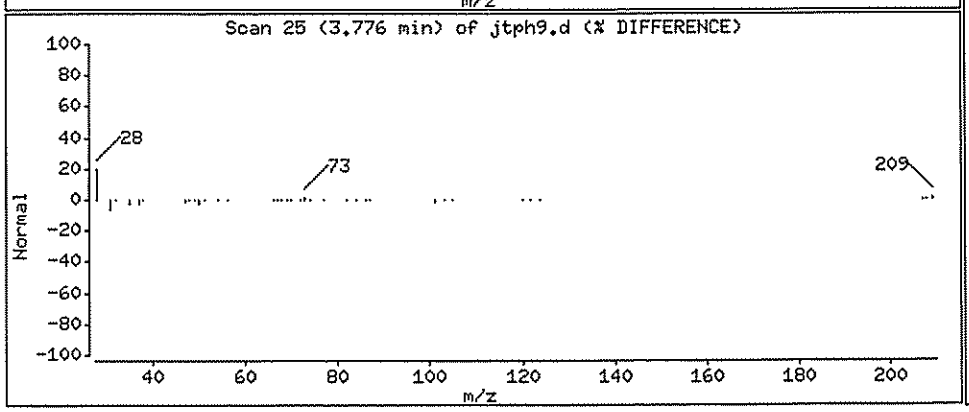
Column phase: Rtx-5 Column diameter: 0.32

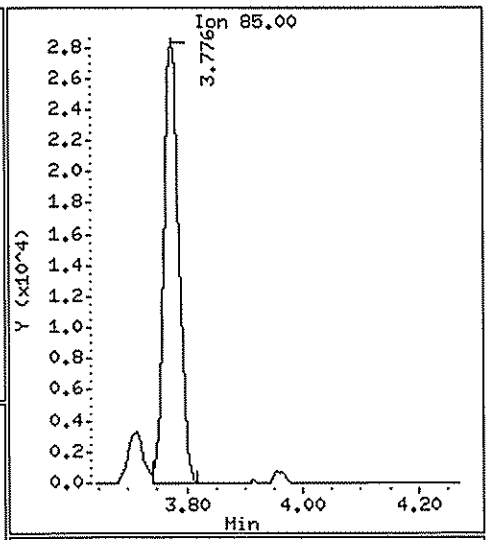
8 Dichlorodifluoromethane Concentration: 0.4674 ppb(v/v)

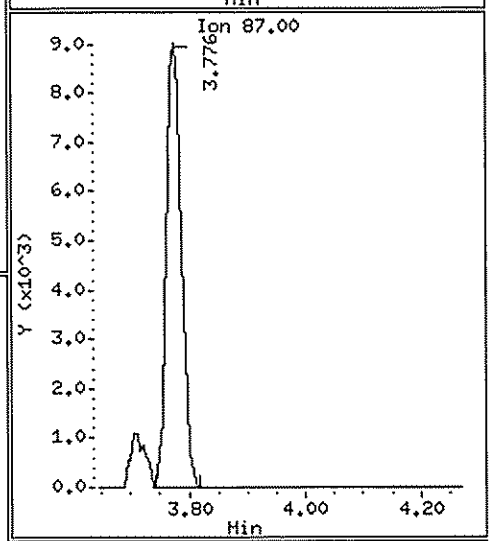


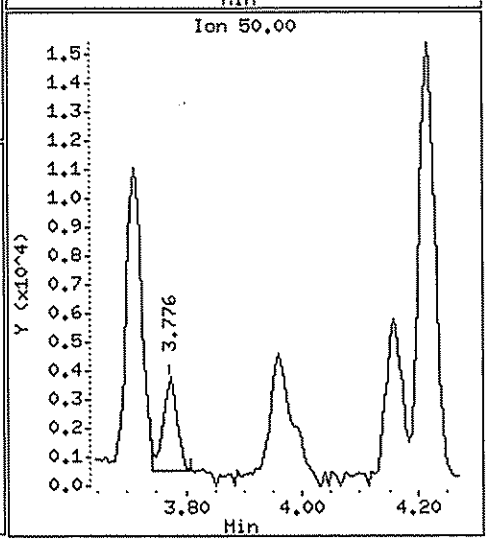












Data File: /var/chem/gcms/mj.i/J041707.b/jtph9.d

Date : 17-APR-2007 22:01

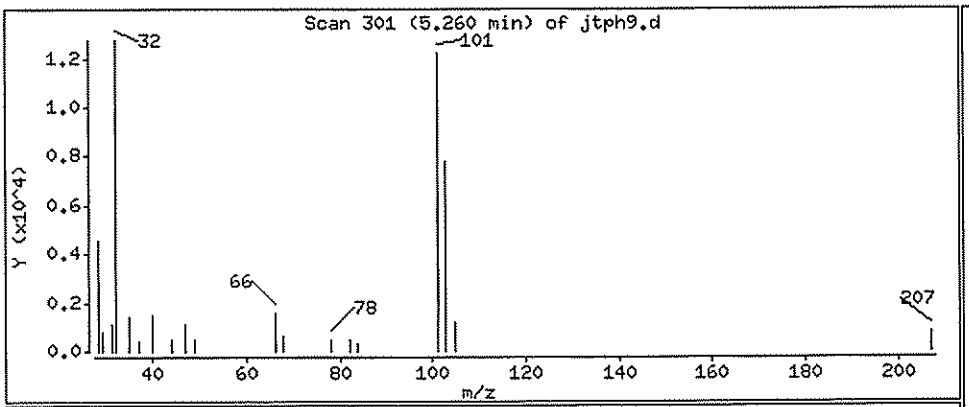
Client ID: SV-14(S.S) Instrument: mj.i

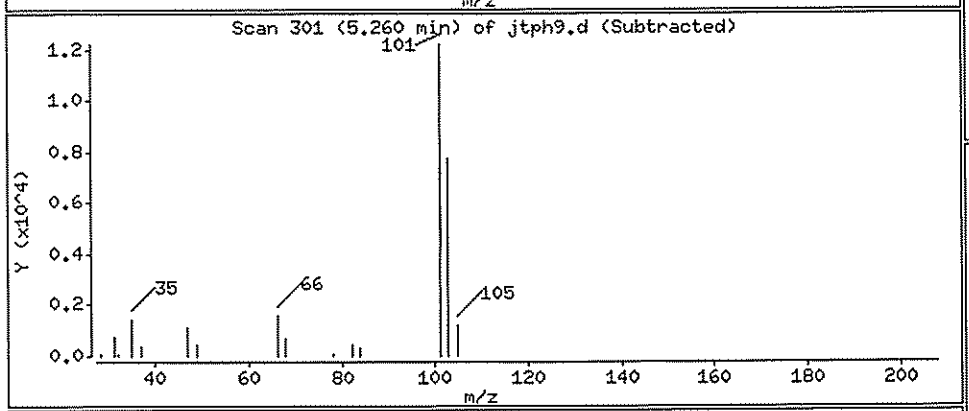
Sample Info: JTPH91AD,2,0,,,

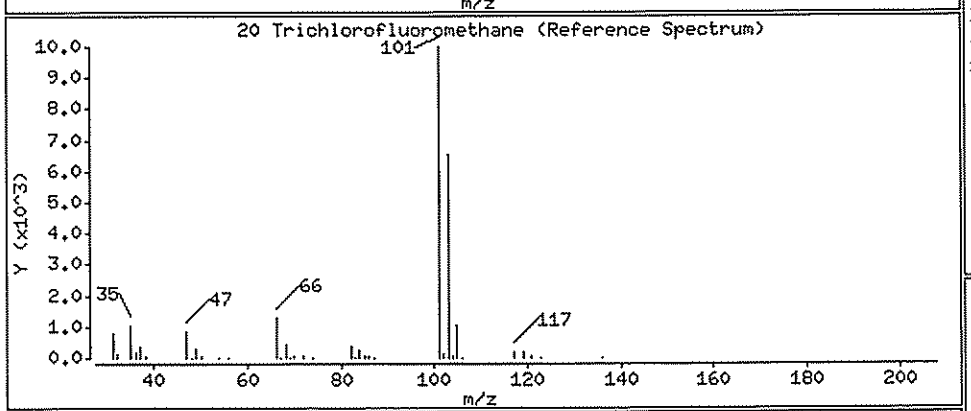
Purge Volume: 500.0 Operator: 7126

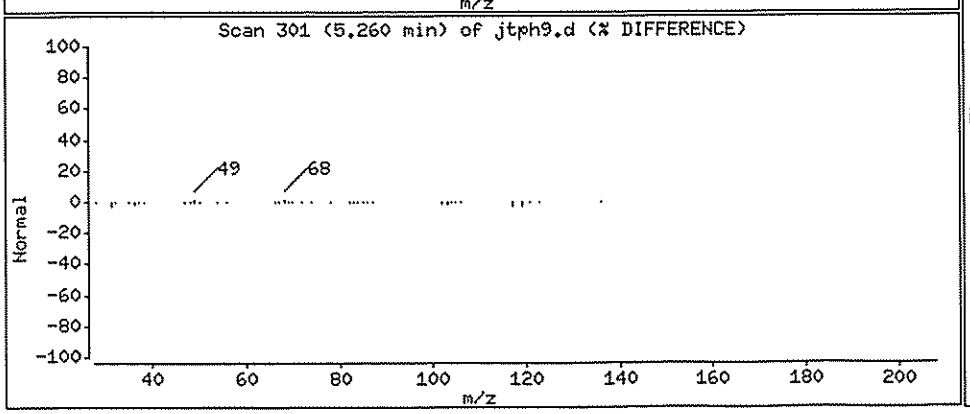
Column phase: Rtx-5 Column diameter: 0.32

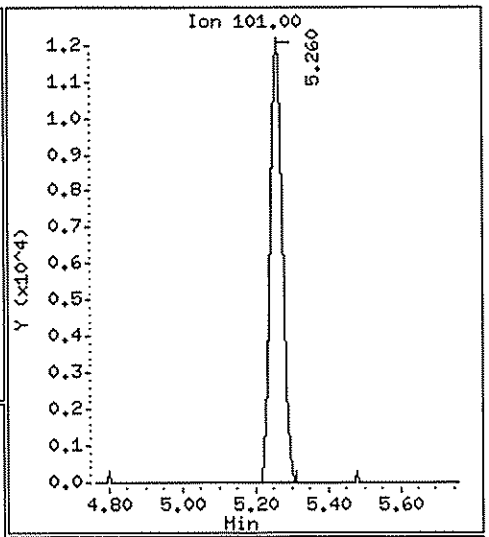
20 Trichlorofluoromethane Concentration: 0.2704 ppb(v/v)

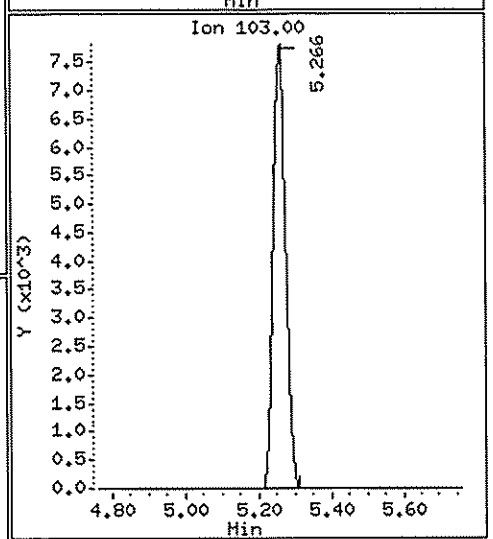


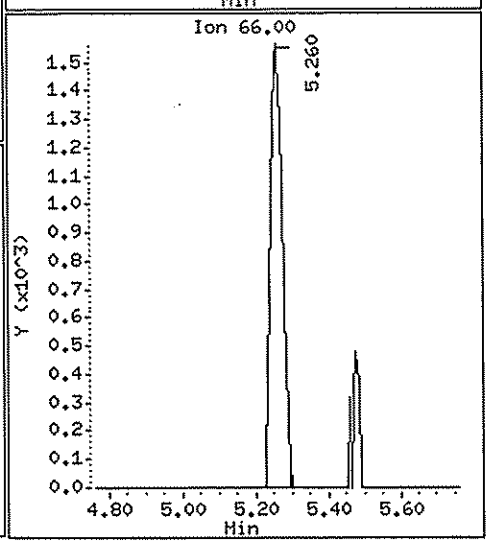












Data File: /var/chem/gcms/mj.i/J041707.b/jtph9.d

Date : 17-APR-2007 22:01

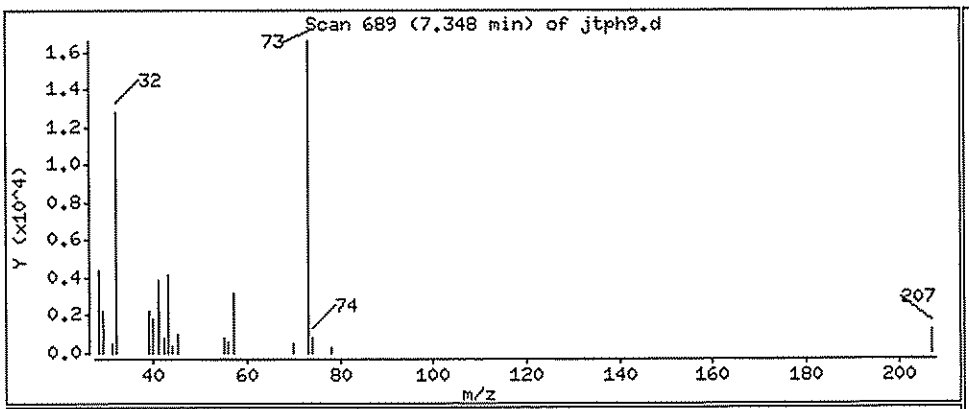
Client ID: SV-14(S.S) Instrument: mj.i

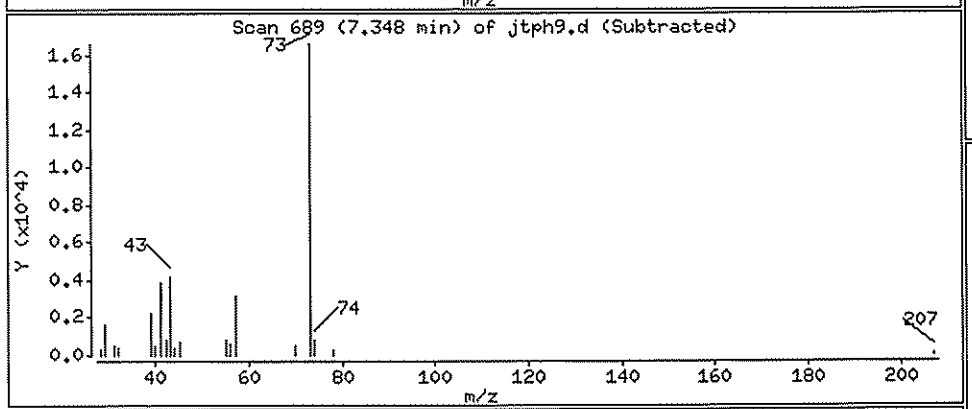
Sample Info: JTPH91AD,2,0,,,

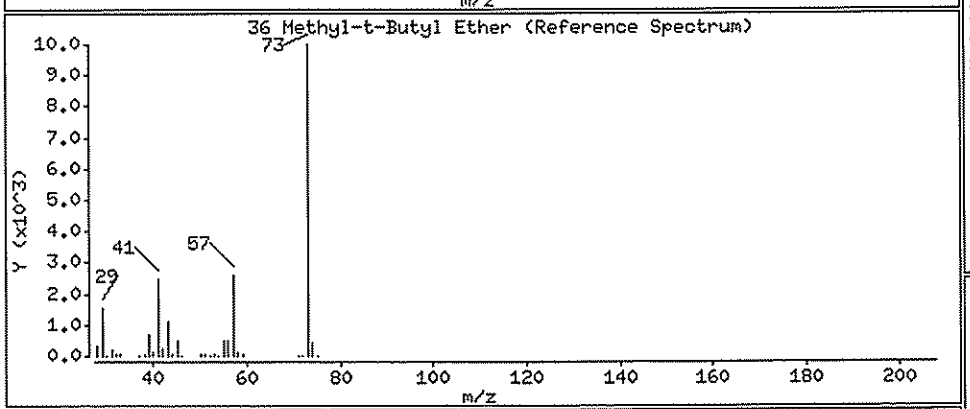
Purge Volume: 500.0 Operator: 7126

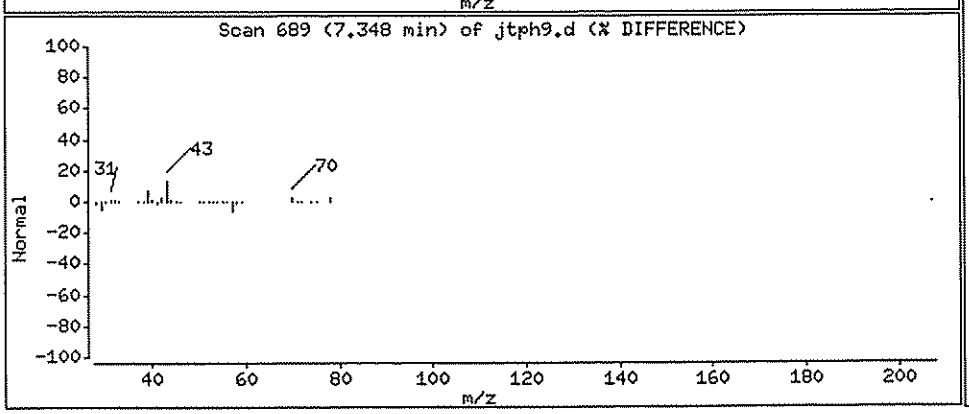
Column phase: Rtx-5 Column diameter: 0.32

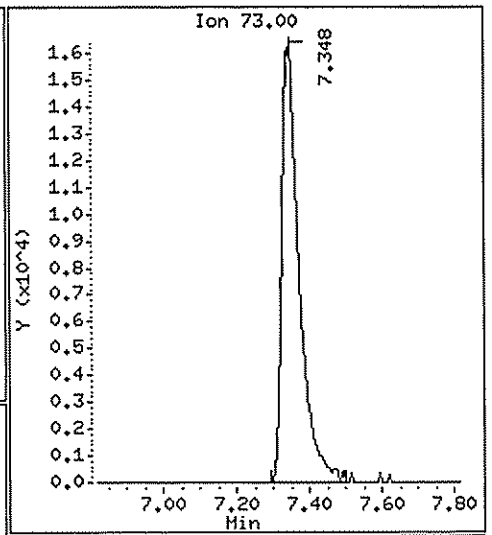
36 Methyl-t-Butyl Ether Concentration: 0.9099 ppb(v/v)

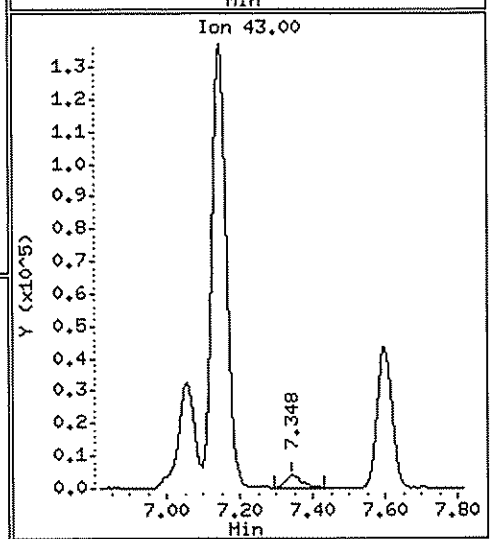


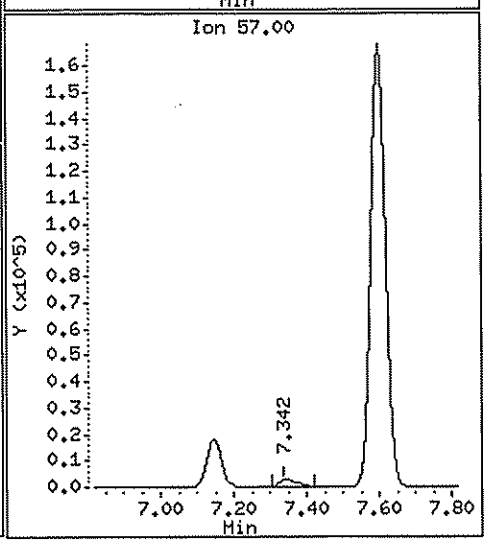












Data File: /var/chem/gcms/mj.i/J041707.b/jtph9.d

Date : 17-APR-2007 22:01

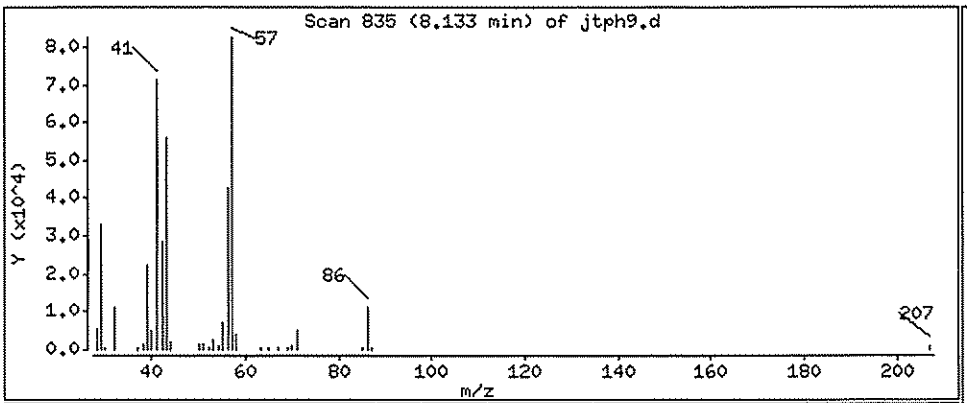
Client ID: SV-14(S,S) Instrument: mj.i

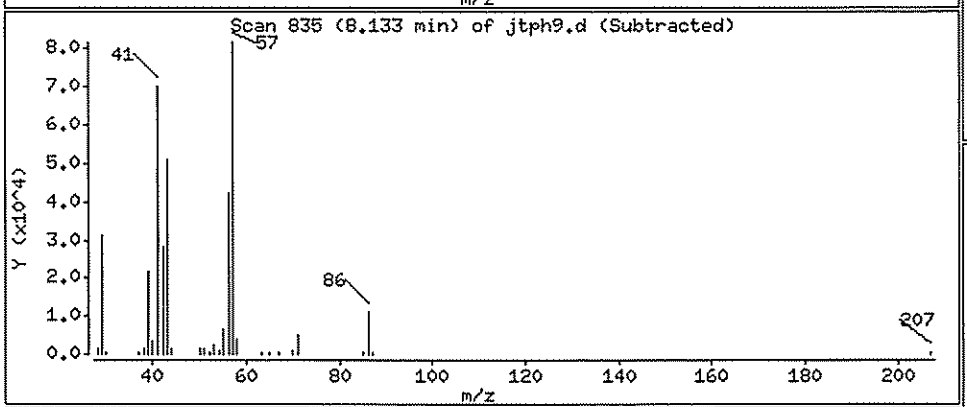
Sample Info: JTPH91AD,2,0,,,

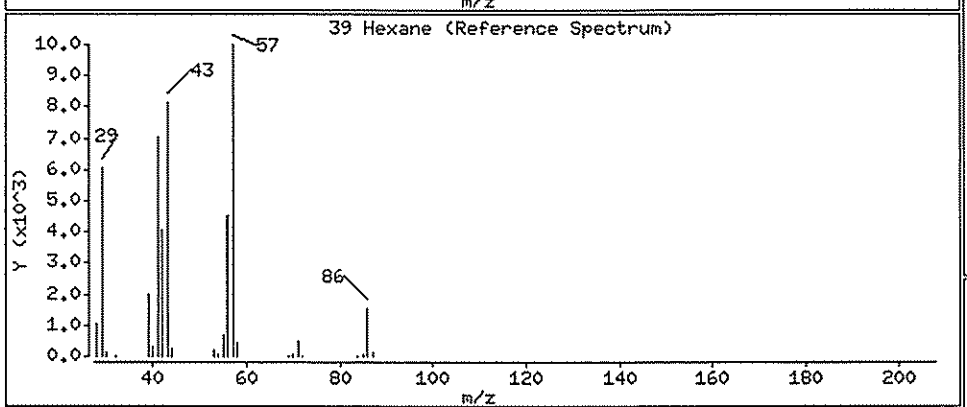
Purge Volume: 500.0 Operator: 7126

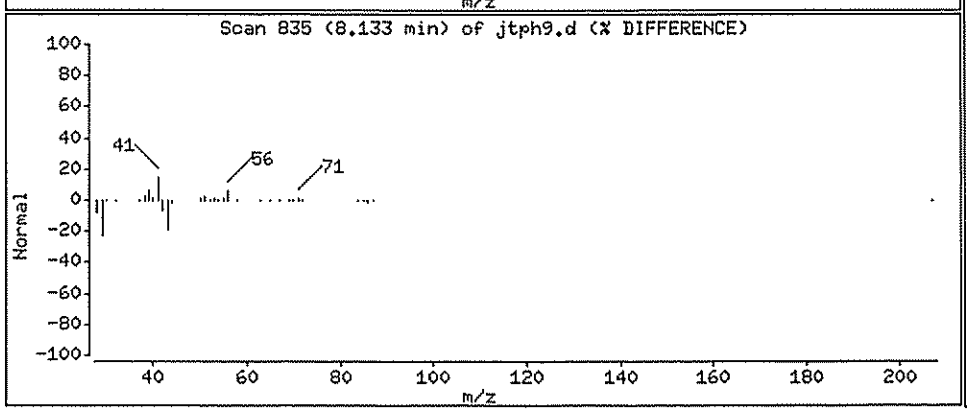
Column phase: Rtx-5 Column diameter: 0.32

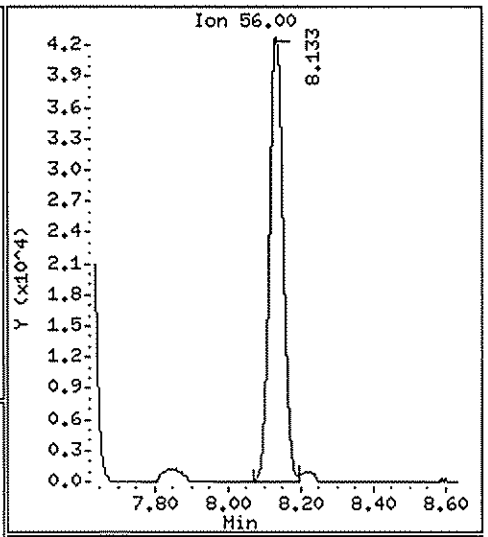
39 Hexane Concentration: 5.041 ppb(v/v)

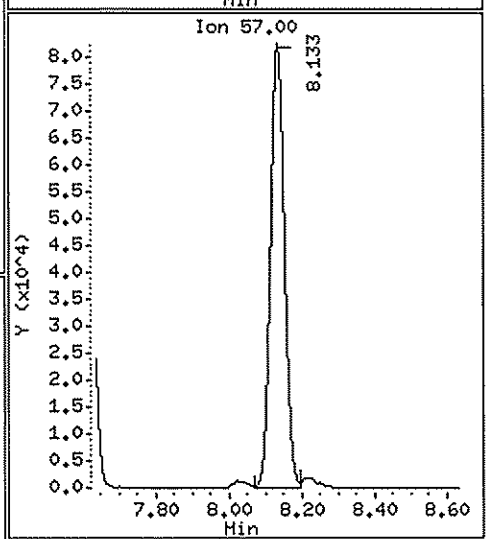


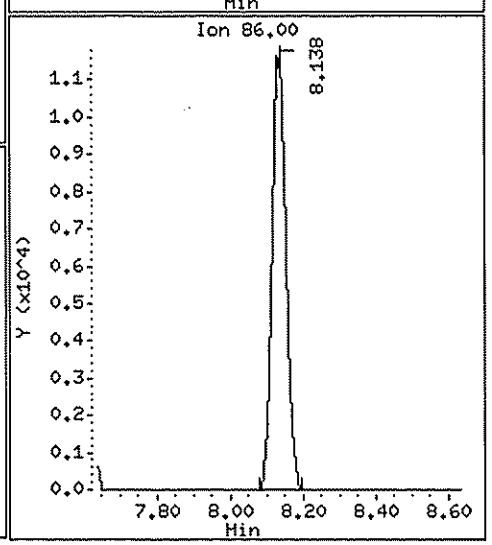












Data File: /var/chem/gcms/mj.i/J041707.b/jtph9.d

Date : 17-APR-2007 22:01

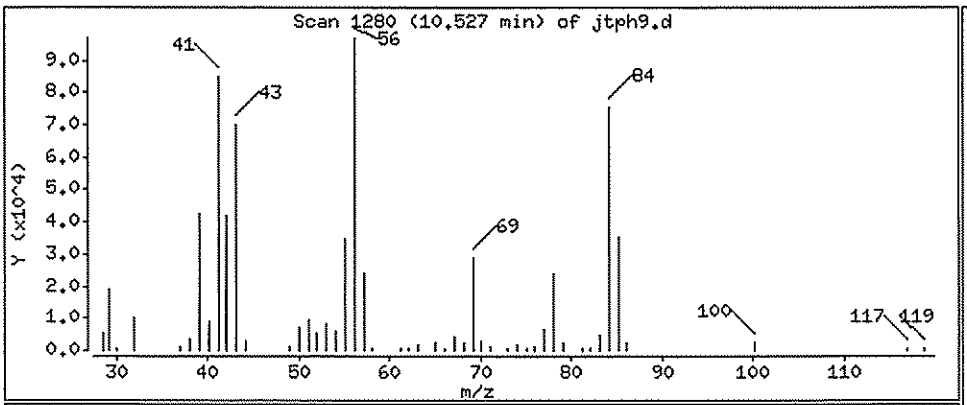
Client ID: SV-14(S,S) Instrument: mj.i

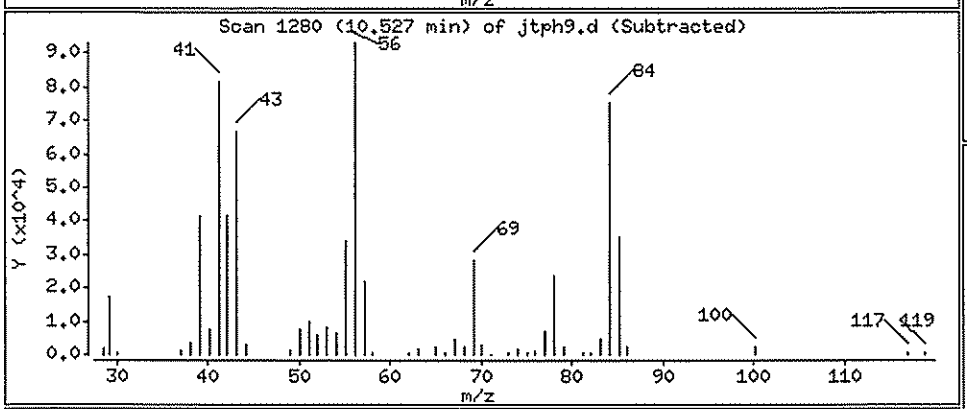
Sample Info: JTPH91AD,2,0,,,

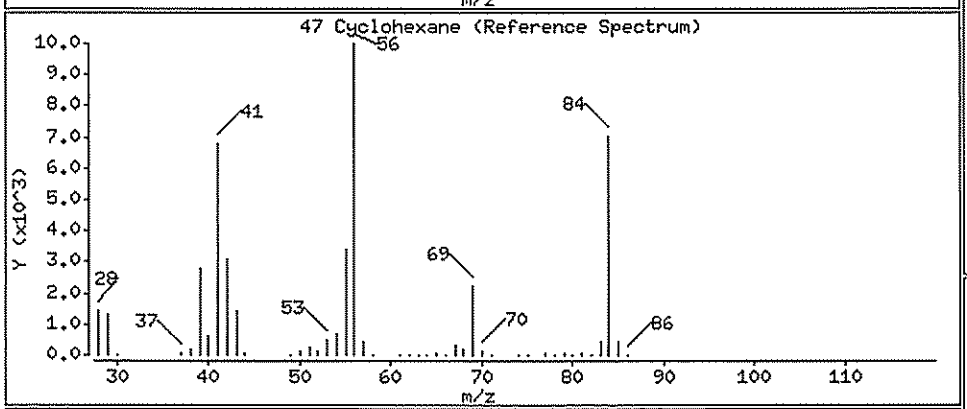
Purge Volume: 500.0 Operator: 7126

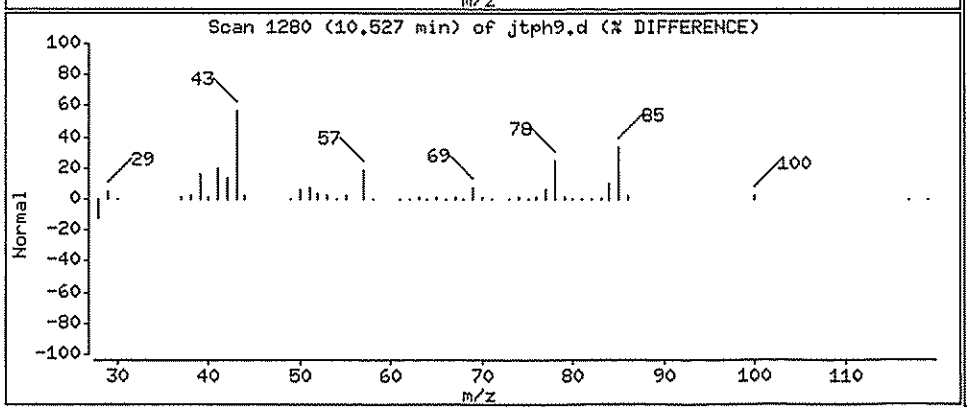
Column phase: Rtx-5 Column diameter: 0.32

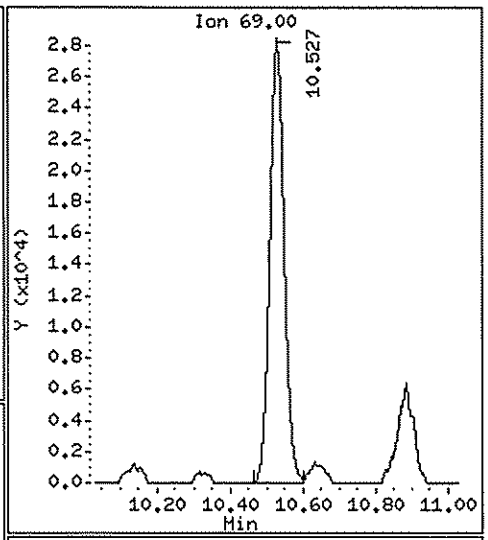
47 Cyclohexane Concentration: 4.993 ppb(v/v)

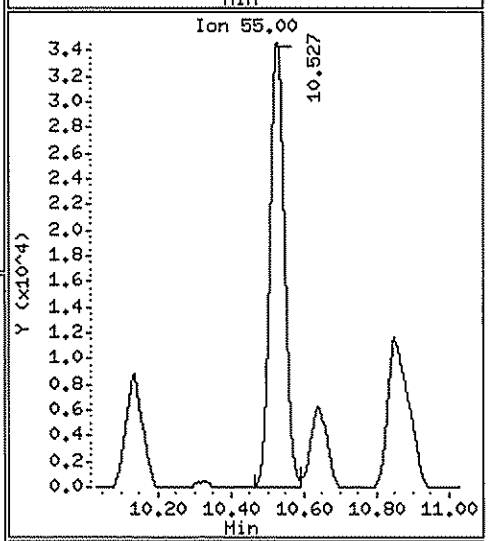


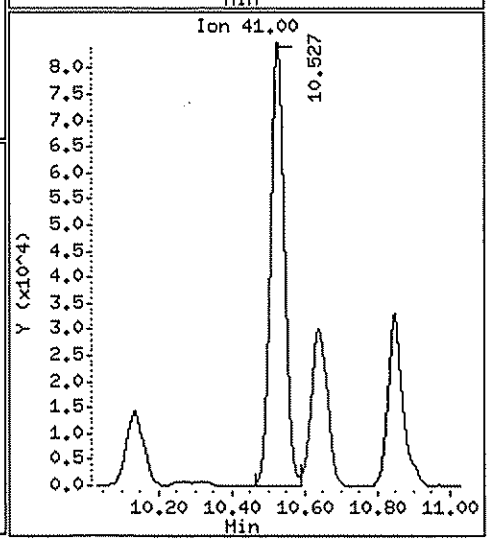












Data File: /var/chem/gcms/mj.i/J041707.b/jtph9.d

Date : 17-APR-2007 22:01

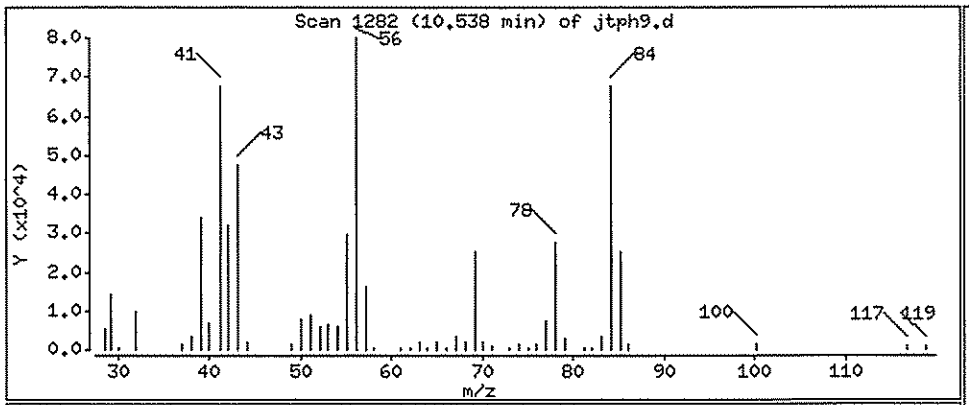
Client ID: SV-14(S,S) Instrument: mj.i

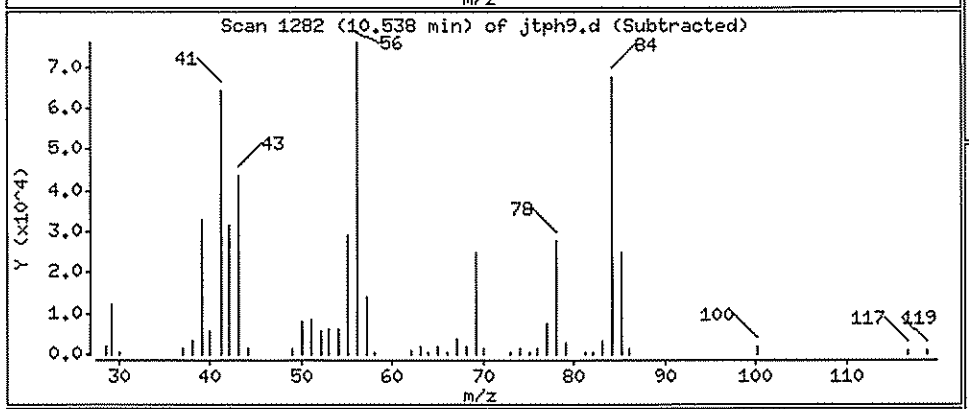
Sample Info: JTPH91AD,2,0,,,

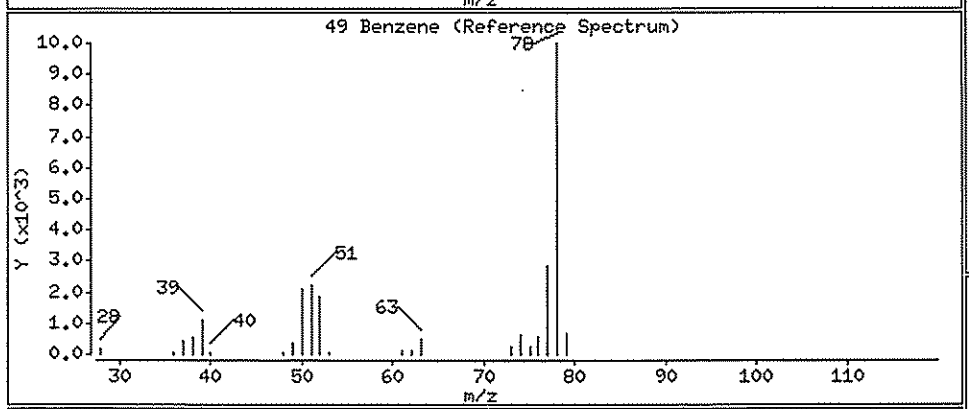
Purge Volume: 500.0 Operator: 7126

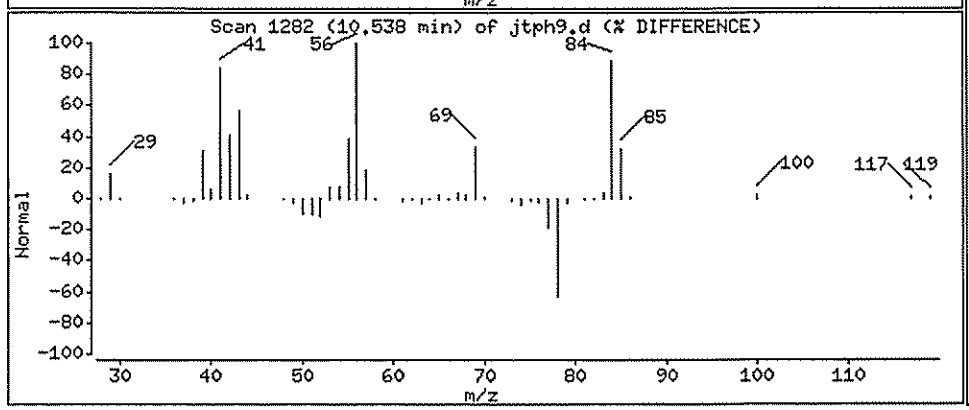
Column phase: Rtx-5 Column diameter: 0.32

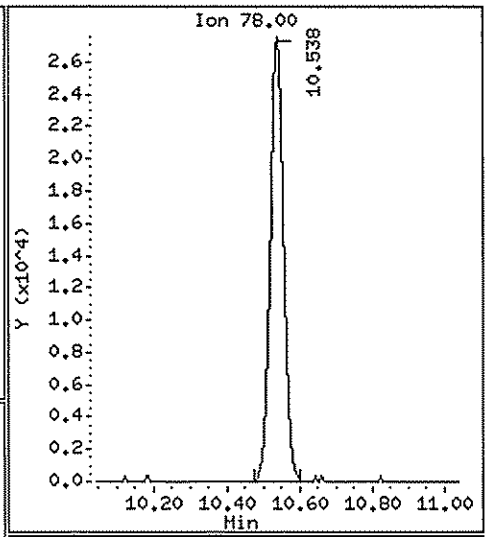
49 Benzene Concentration: 0.8032 ppb(v/v)

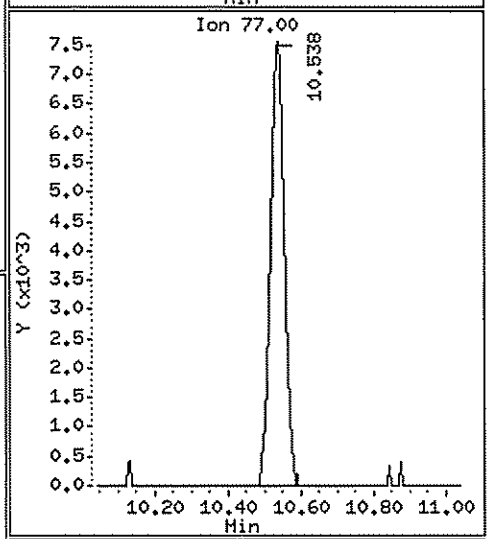


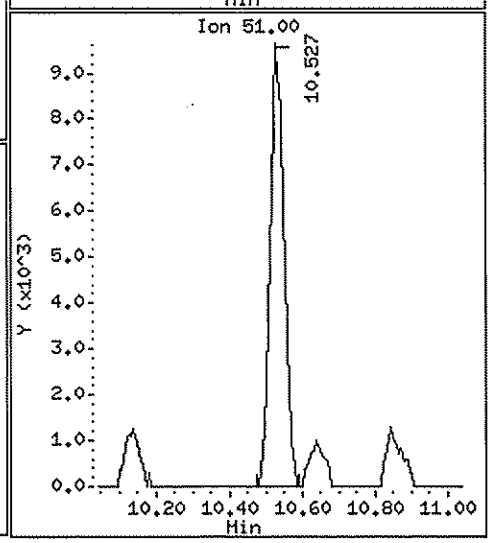












Data File: /var/chem/gcms/mj.i/J041707.b/jtph9.d

Date : 17-APR-2007 22:01

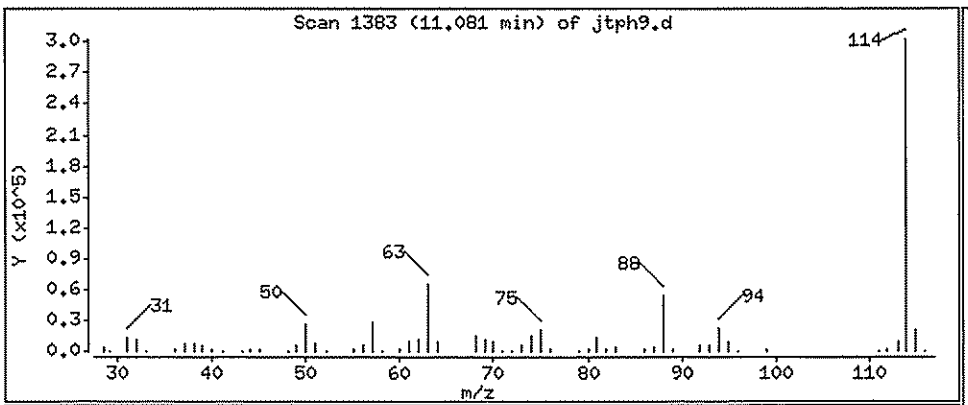
Client ID: SV-14(S.S) Instrument: mj.i

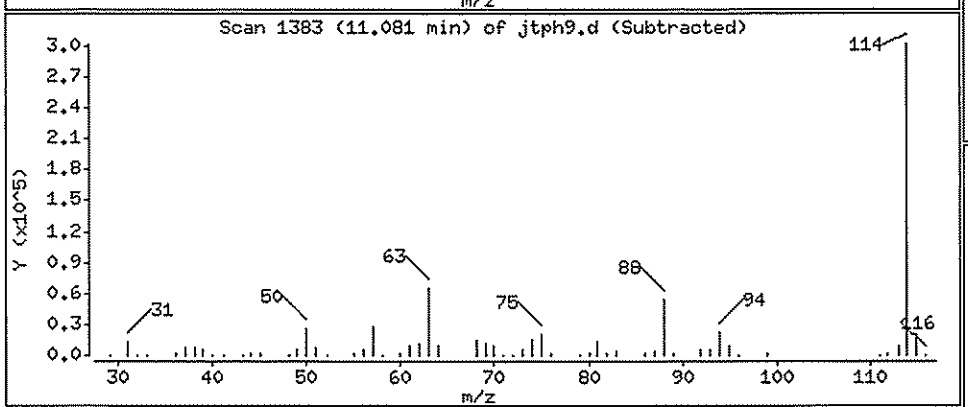
Sample Info: JTPH91AD,2,0,,,

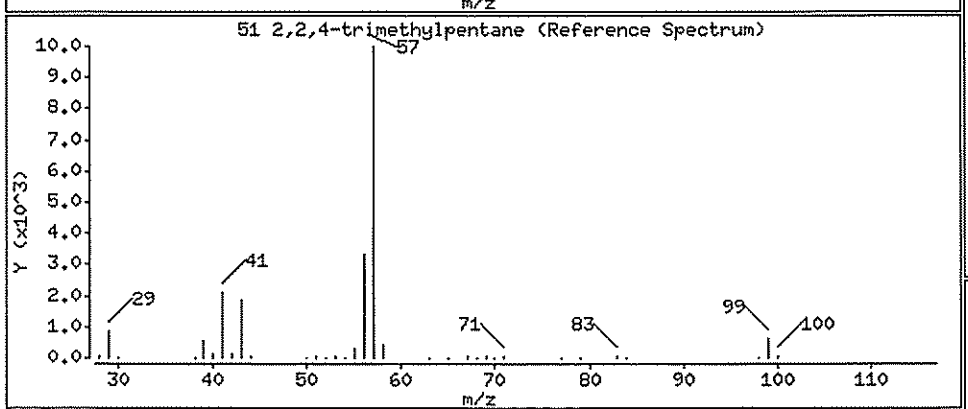
Purge Volume: 500.0 Operator: 7126

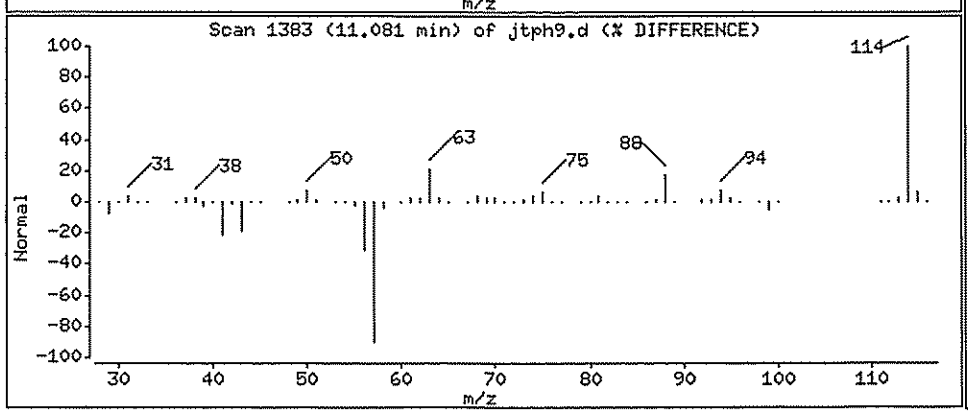
Column phase: Rtx-5 Column diameter: 0.32

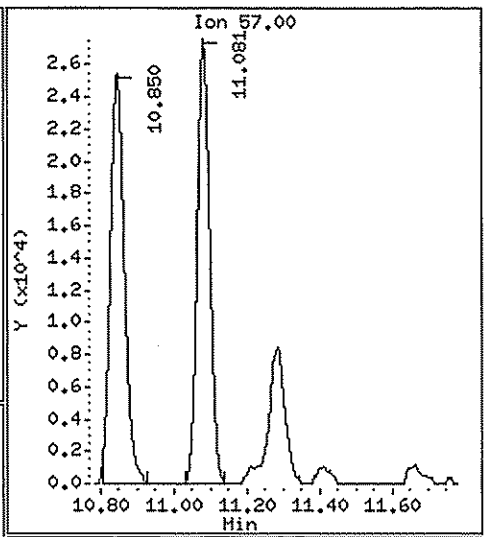
51 2,2,4-trimethylpentane Concentration: 0.4434 ppb(v/v)

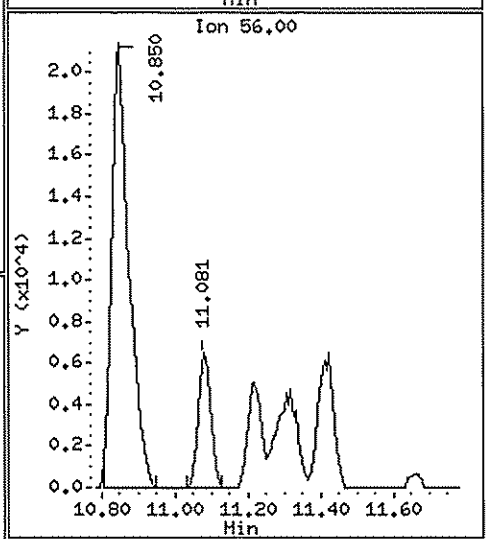


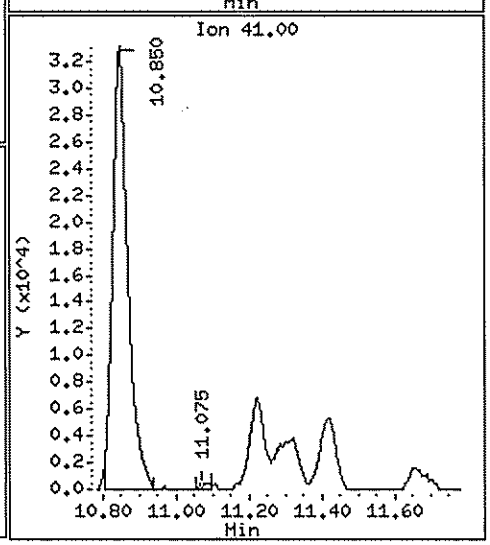












Data File: /var/chem/gcms/mj.i/J041707.b/jtph9.d

Date : 17-APR-2007 22:01

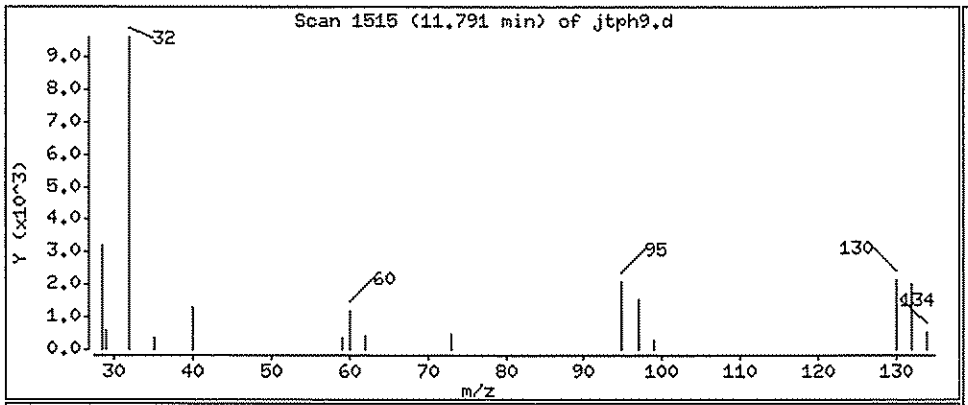
Client ID: SV-14(S.S) Instrument: mj.i

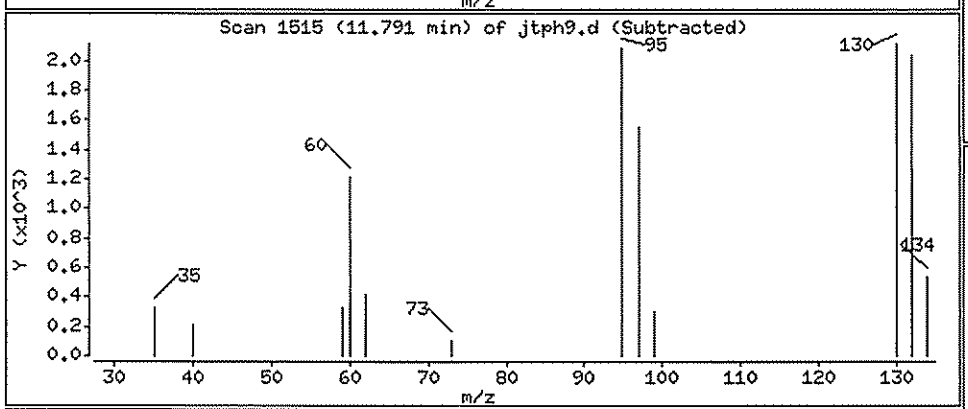
Sample Info: JTPH91AD,2,0,,,

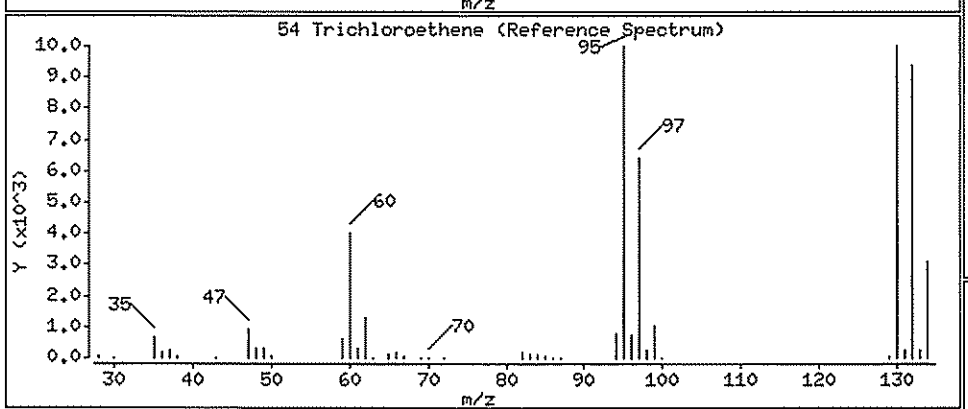
Purge Volume: 500.0 Operator: 7126

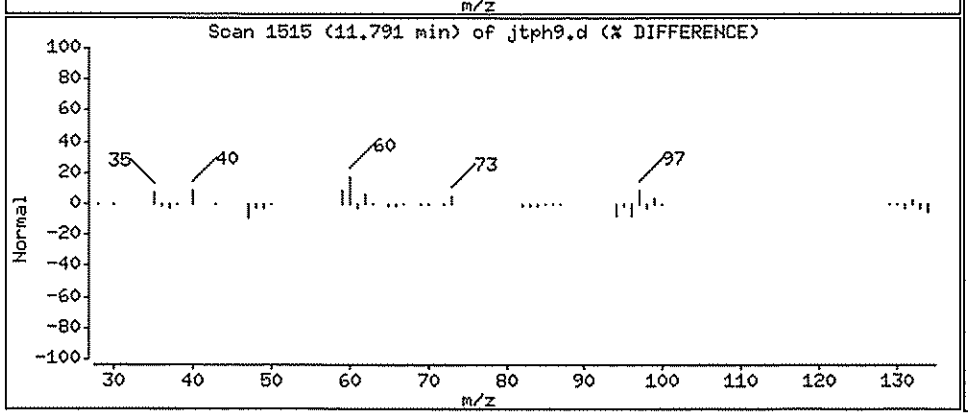
Column phase: Rtx-5 Column diameter: 0.32

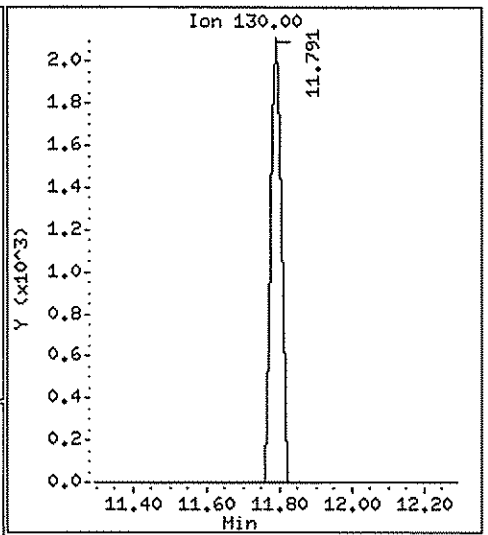
54 Trichloroethene Concentration: 0.08549 ppb(v/v)

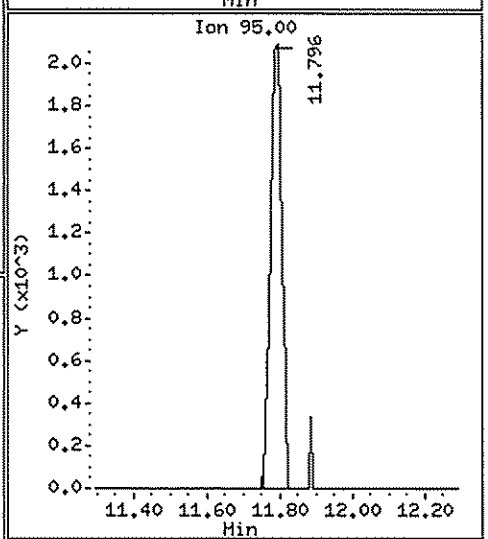


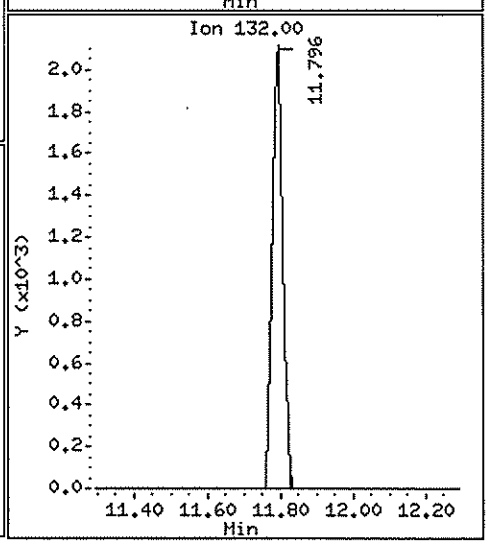












Data File: /var/chem/gcms/mj.i/J041707.b/jtph9.d

Date : 17-APR-2007 22:01

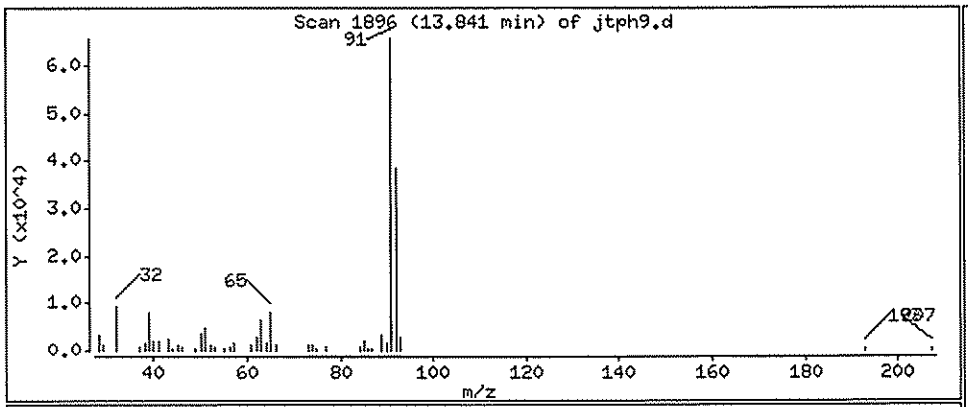
Client ID: SV-14(S,S) Instrument: mj.i

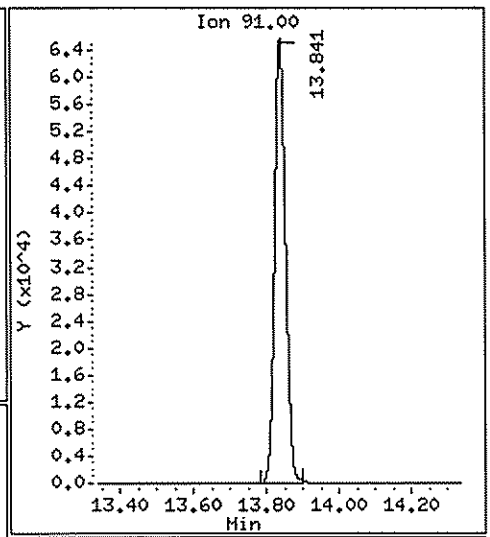
Sample Info: JTPH91AD,2,0,,,

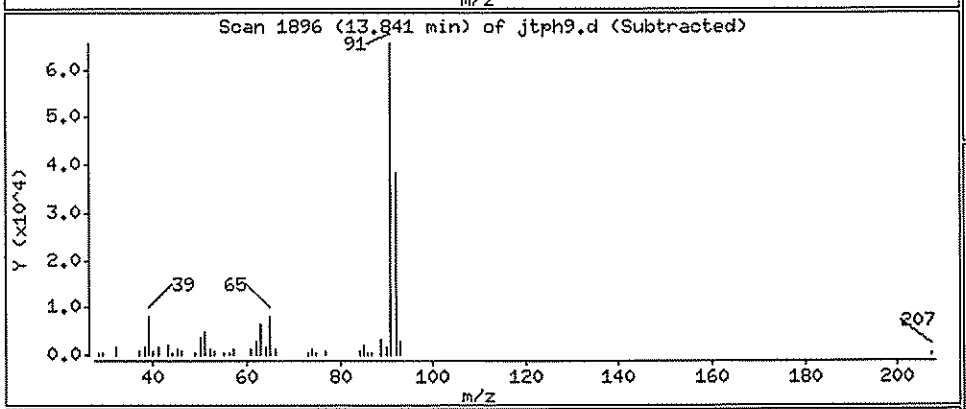
Purge Volume: 500.0 Operator: 7126

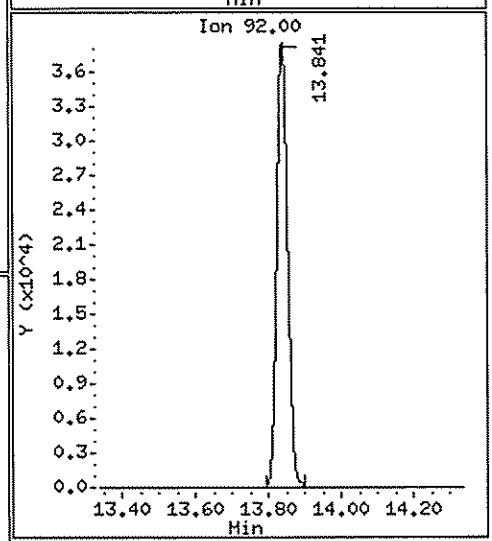
Column phase: Rtx-5 Column diameter: 0.32

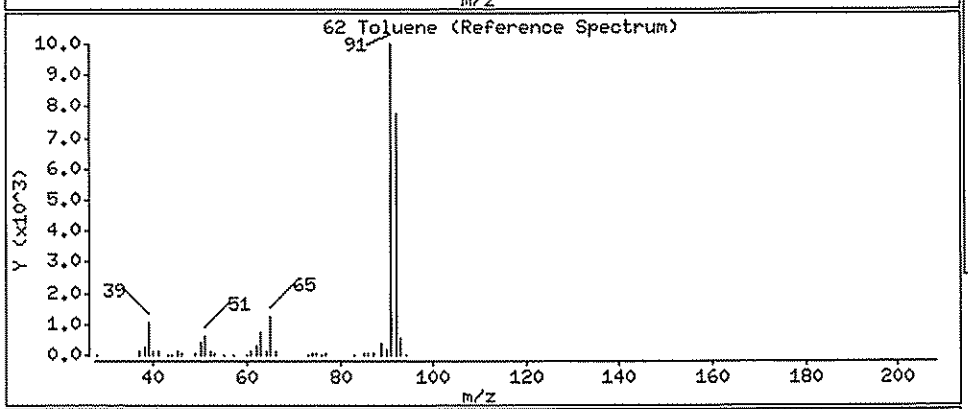
62 Toluene Concentration: 1.646 ppb(v/v)

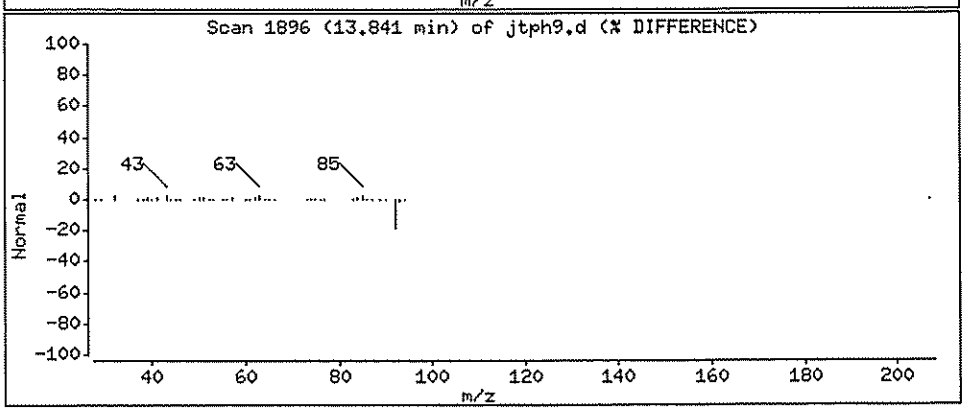












Data File: /var/chem/gcms/mj.i/J041707.b/jtph9.d

Date : 17-APR-2007 22:01

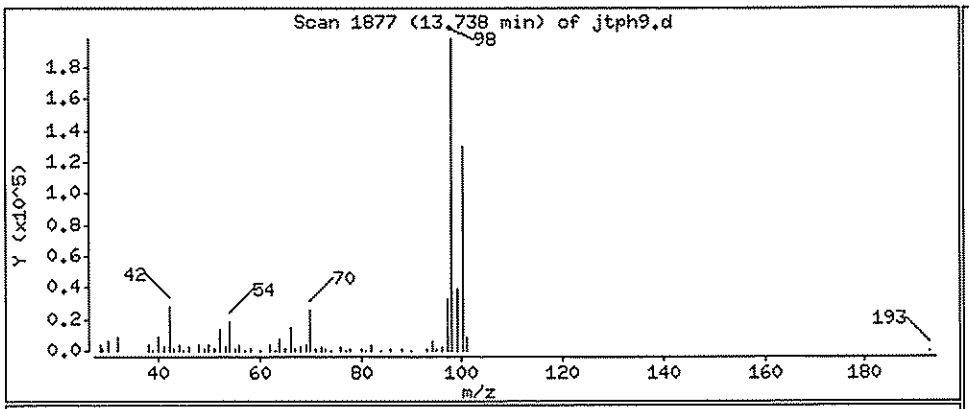
Client ID: SV-14(S.S) Instrument: mj.i

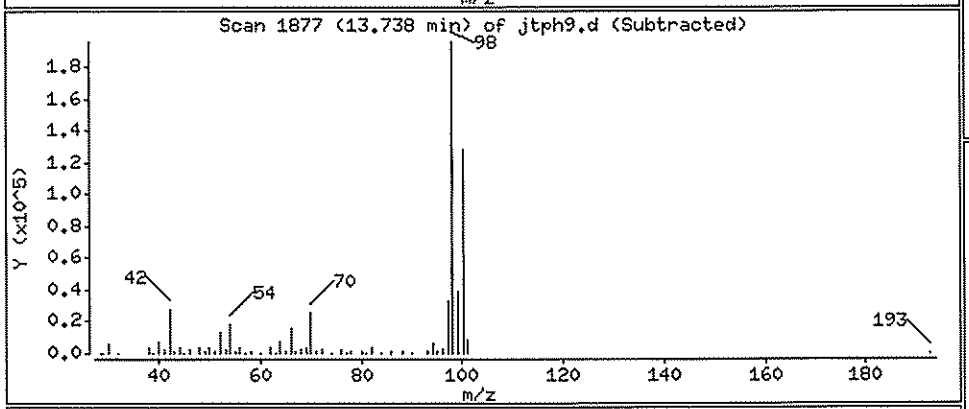
Sample Info: JTPH91AD,2,0,,,

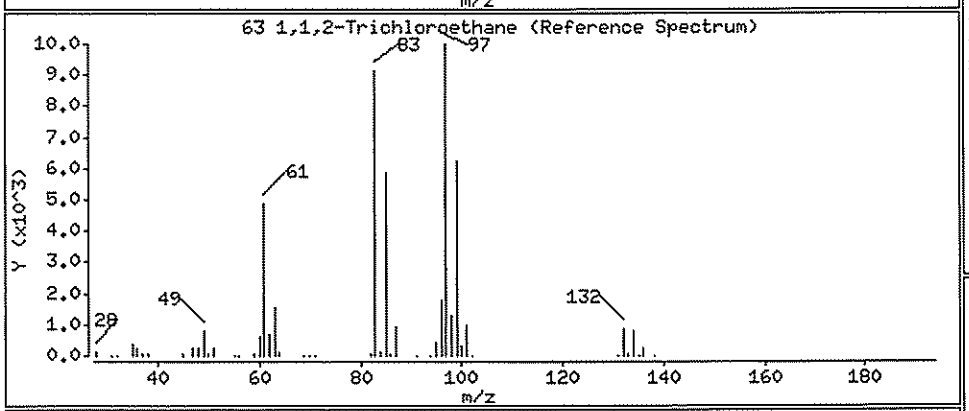
Purge Volume: 500.0 Operator: 7126

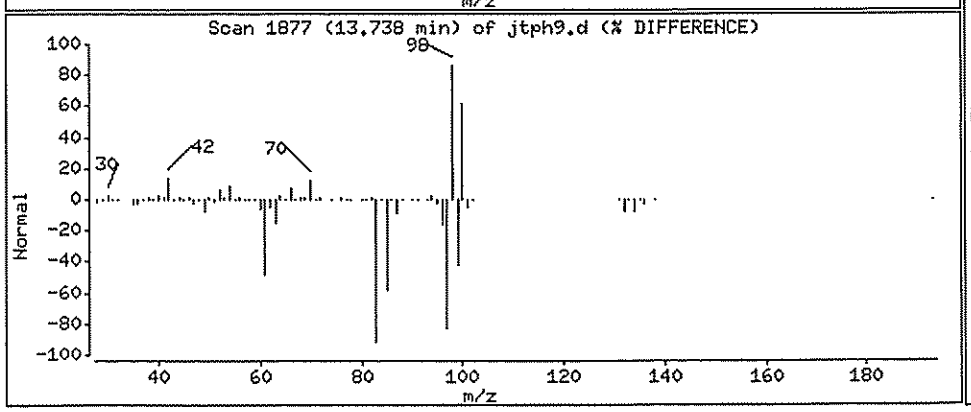
Column phase: Rtx-5 Column diameter: 0.32

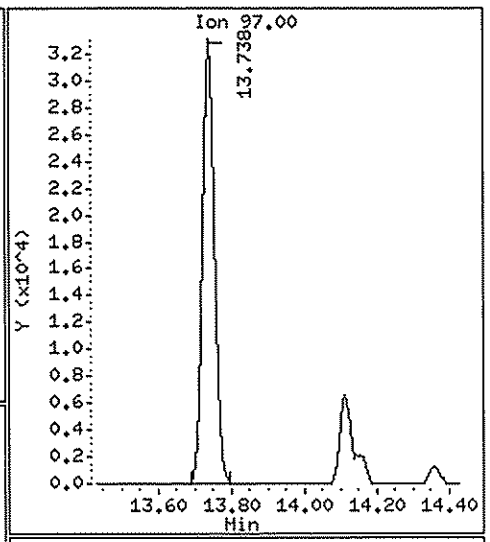
63 1,1,2-Trichloroethane Concentration: 2.521 ppb(v/v)

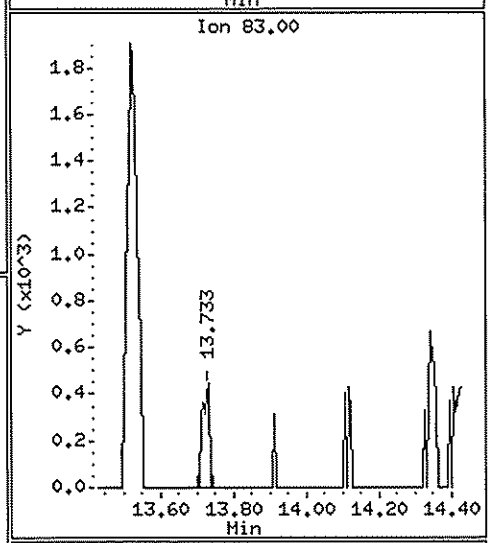


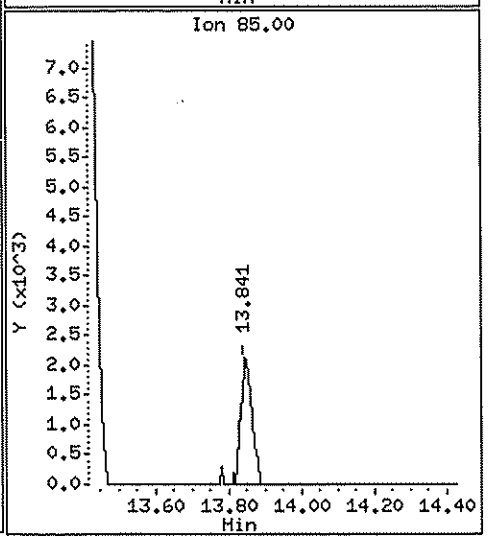












AKRF-White Plains

Client Sample ID: SV-14(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 010 **Work Order #** JTPJE1AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7107200
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	**0.73**	**0.080**	**3.2**	**0.35**
Trichlorofluoromethane	**0.40**	**0.080**	**2.2**	**0.45**
n-Heptane	**0.41**	**0.20**	**1.7**	**0.82**
n-Hexane	**0.29**	**0.20**	**1.0**	**0.70**
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.46**	**0.080**	**1.5**	**0.26**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	**0.20**	**0.080**	**1.3**	**0.54**
Toluene	**4.9**	**0.080**	**19**	**0.30**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
1,3,5-Trimethylbenzene	**0.14**	**0.080**	**0.70**	**0.39**
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	**0.64**	**0.080**	**2.8**	**0.35**
Methyl tert-butyl ether	ND	0.40	ND	1.4
m-Xylene & p-Xylene	**1.8**	**0.080**	**7.6**	**0.35**
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	**0.12**	**0.040**	**0.77**	**0.25**
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	**0.19**	**0.080**	**0.95**	**0.39**
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	**0.31**	**0.20**	**1.1**	**0.69**
Dichlorodifluoromethane	**0.72**	**0.080**	**3.6**	**0.40**
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

TO-14 _rev5.rpt version 5.0.103 10/12/2006

AKRF-White Plains

Client Sample ID: SV-14(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 010 **Work Order #** JTPJE1AD **Matrix.....:** AIR

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	111	70 - 130
Toluene-d8	96	70 - 130
4-Bromofluorobenzene	98	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d
Report Date: 19-Apr-2007 18:59

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041607.b/jtpje.d
Lab Smp Id: JTPJE1AD Client Smp ID: SV-14(A.A)
Inj Date : 17-APR-2007 05:24
Operator : 7126 Inst ID: mj.i
Smp Info : JTPJE1AD,,0,,,
Misc Info : J041607,TO15,magna.sub,,,500 ML
Comment :
Method : /var/chem/gcms/mj.i/J041607.b/TO15.m
Meth Date : 19-Apr-2007 17:51 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: magna.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

04 20 07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.903	8.899	(1.000)	121552	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.087	11.083	(1.000)	443541	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.810	15.806	(1.000)	408433	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.909	9.905	(0.894)	125754	4.45565	4.456
$ 5 Toluene-d8	98	13.728	13.724	(0.868)	383130	3.85473	3.855
$ 6 4-Bromofluorobenzene	95	17.445	17.441	(1.103)	324466	3.93694	3.937
8 Dichlorodifluoromethane	85	3.776	3.778	(0.424)	104950	0.71991	0.7199
15 1,3-Butadiene	54	4.217	4.219	(0.474)	5183	0.20948	~~0.2095~~
20 Trichlorofluoromethane	101	5.261	5.262	(0.591)	57594	0.39688	0.3969
32 3-Chloropropene	39	6.256	6.344	(0.703)	5577	0.12867	~~0.1287~~
39 Hexane	56	8.134	8.130	(0.914)	9157	0.29344	0.2934
43 Chloroform	83	8.914	8.904	(1.001)	18153	0.19379	0.1938
47 Cyclohexane	69	10.527	10.523	(0.950)	5920	0.30967	~~0.3097~~ Keep 04 20 07
49 Benzene	78	10.538	10.534	(0.950)	49372	0.46201	0.4620
50 Carbon Tetrachloride	117	10.560	10.556	(1.186)	13433	0.12251	0.1225
51 2,2,4-trimethylpentane	57	11.087	11.277	(1.000)	38756	0.21985	~~0.2198~~

KM 4-19-07

Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d
Report Date: 19-Apr-2007 18:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
52 Heptane	43	11.657	11.653	(1.051)	26056	0.41245	0.4124
62 Toluene	91	13.841	13.837	(0.875)	523501	4.92322	4.923
68 Tetrachloroethene	129	14.976	14.978	(0.947)	9843	0.19648	0.1965
70 Ethylbenzene	91	16.138	16.140	(1.021)	92381	0.73371	0.7337
71 m&p-Xylene	91	16.294	16.301	(1.031)	171284	1.75816	1.758
75 o-Xylene	91	16.827	16.823	(1.064)	67705	0.63934	0.6393
83 4-Ethyltoluene	105	18.059	18.092	(1.142)	29325	0.21504	~~0.2150~~
84 1,3,5-Trimethylbenzene	120	18.166	18.162	(1.149)	7133	0.14161	0.1416

KM
4-19-07

Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d
Report Date: 19-Apr-2007 18:59

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jtpje.d
Lab Smp Id: JTPJE1AD
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,magna.sub,,,500 ML

Calibration Date: 16-APR-2007
Calibration Time: 12:57
Client Smp ID: SV-14(A.A)
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	185541	110397	260685	121552	-34.49
2 1,4-Difluorobenze	738195	439226	1037164	443541	-39.92
3 Chlorobenzene-d5	652787	388408	917166	408433	-37.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.90	8.57	9.23	8.90	0.05
2 1,4-Difluorobenze	11.08	10.75	11.41	11.09	0.04
3 Chlorobenzene-d5	15.81	15.48	16.14	15.81	0.03

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d
Report Date: 19-Apr-2007 18:59

STL Knoxville

RECOVERY REPORT

Client Name: AKRF-White Plains
Sample Matrix: GAS
Lab Smp Id: JTPJE1AD
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: magna.sub
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,magna.sub,,,500 ML

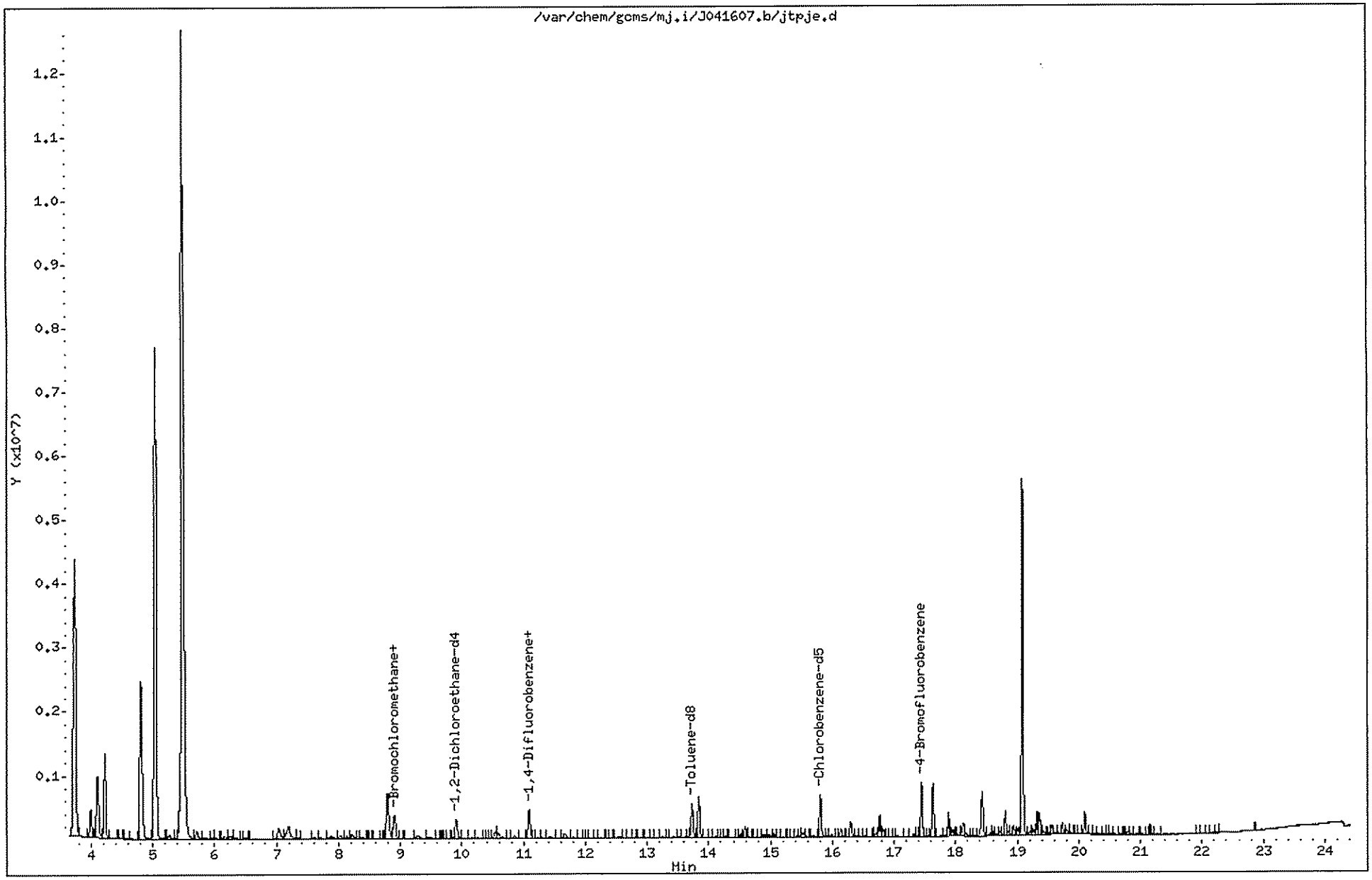
Client SDG: H7D110232
Fraction: OTHER
Client Smp ID: SV-14(A.A)
Operator: 7126
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	4.000	4.456	111.39	70-130
$ 5 Toluene-d8	4.000	3.855	96.37	70-130
$ 6 4-Bromofluorobenze	4.000	3.937	98.42	70-130

Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d
Date : 17-APR-2007 05:24
Client ID: SV-14(A,A)
Sample Info: JTPJE1AD,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d

Date : 17-APR-2007 05:24

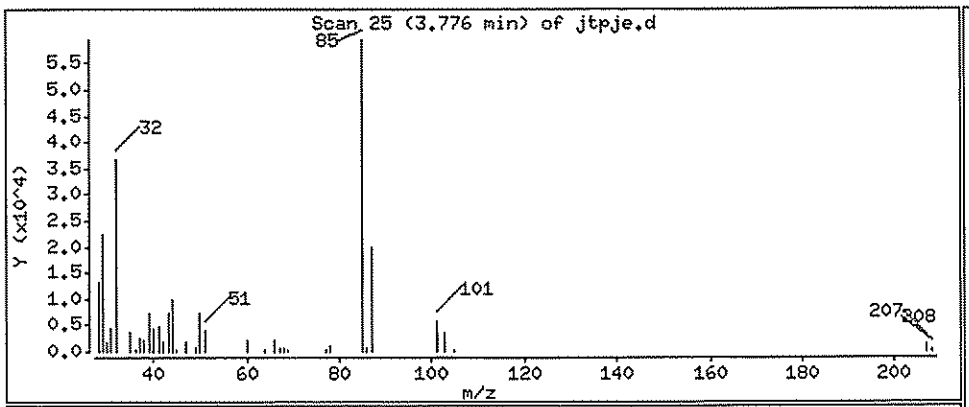
Client ID: SV-14(A.A) Instrument: mj.i

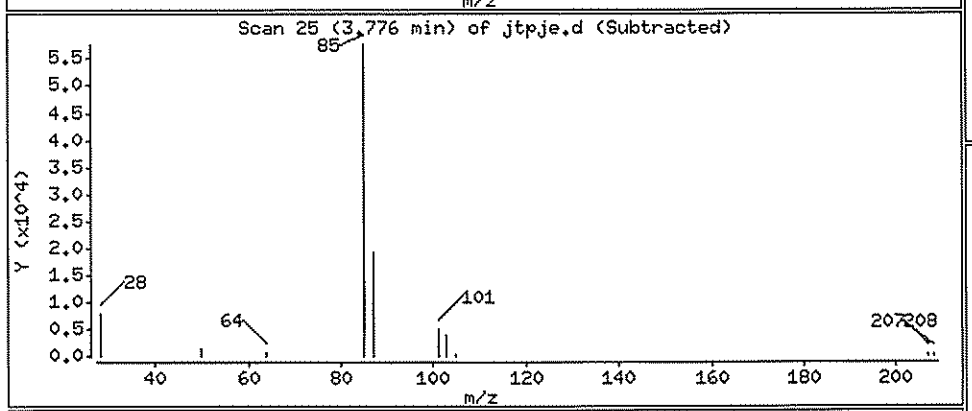
Sample Info: JTPJE1AD,,0,,,

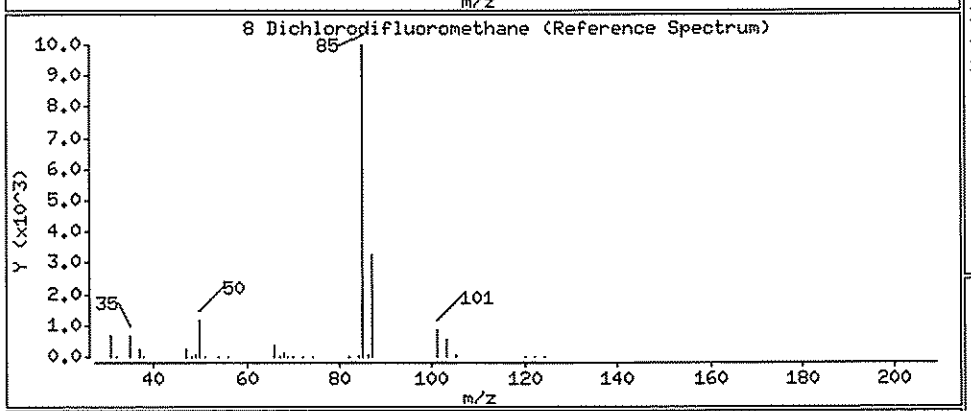
Purge Volume: 500.0 Operator: 7126

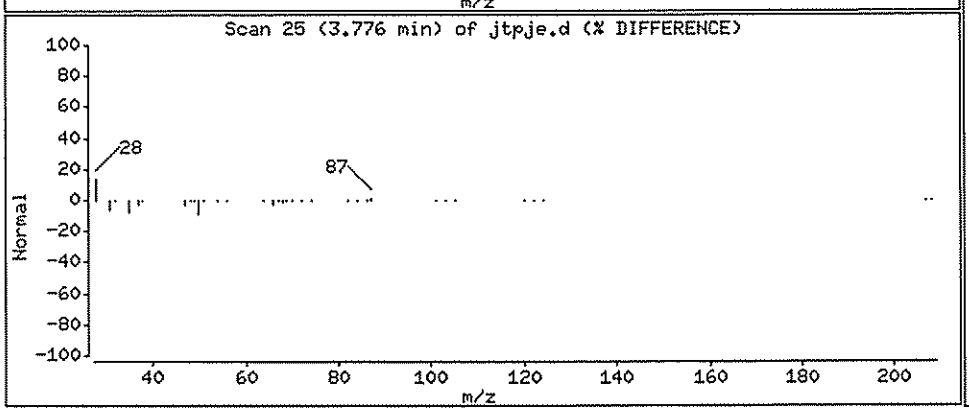
Column phase: Rtx-5 Column diameter: 0.32

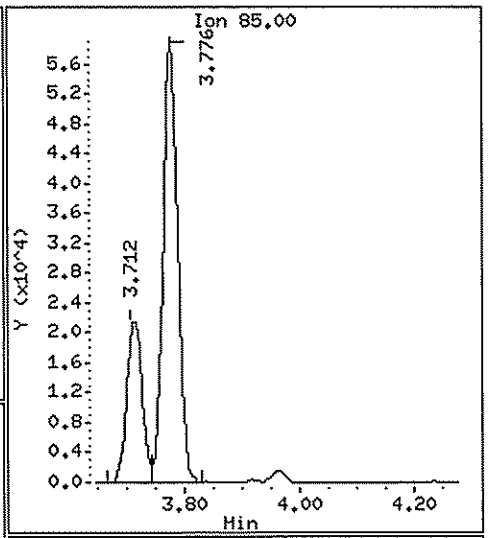
8 Dichlorodifluoromethane Concentration: 0.7199 ppb(v/v)

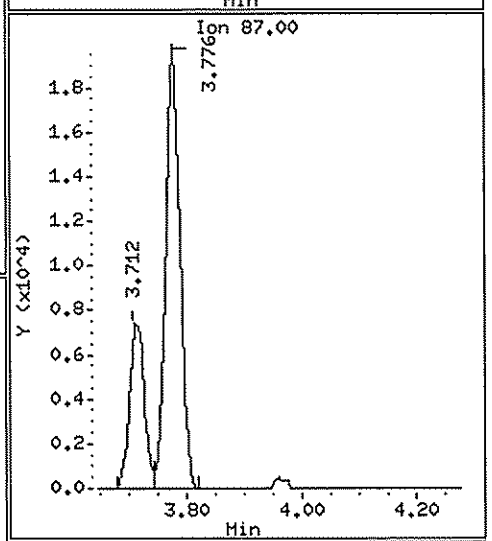


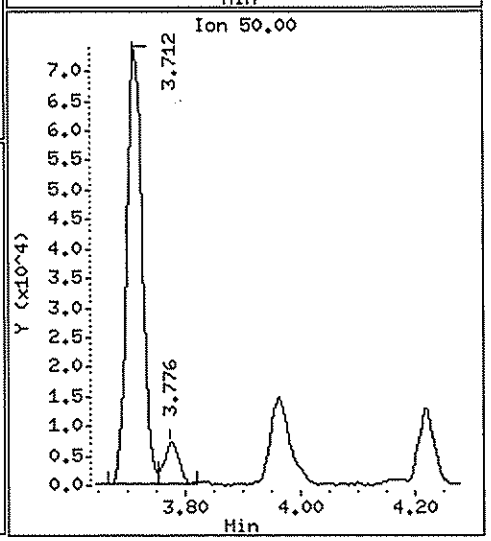












Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d

Date : 17-APR-2007 05:24

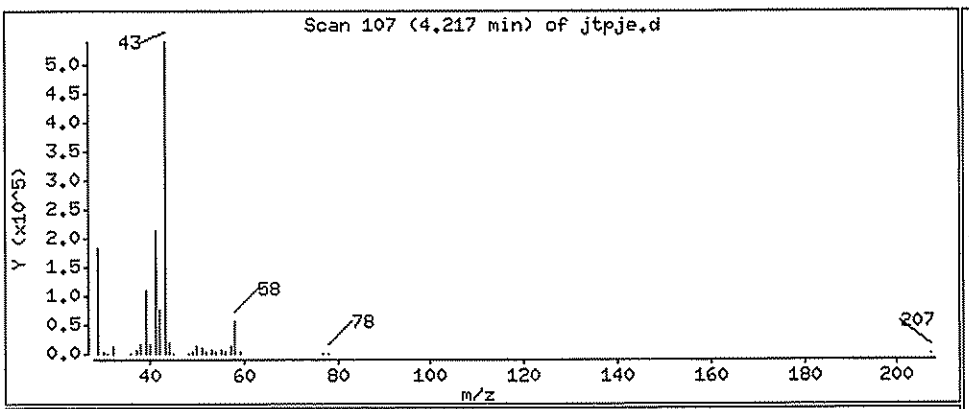
Client ID: SV-14(A,A) Instrument: mj.i

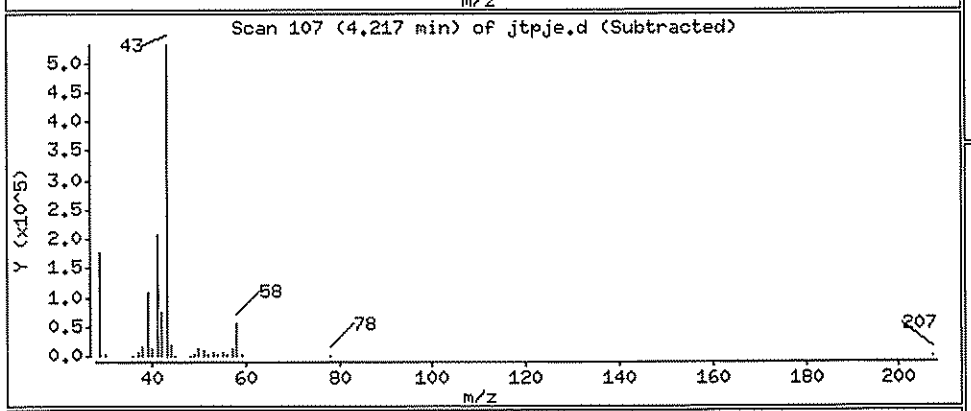
Sample Info: JTPJE1AD,,0,,,

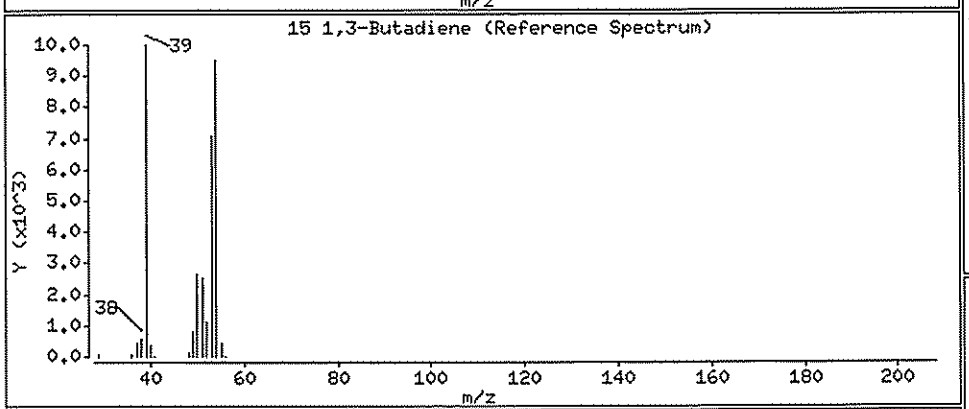
Purge Volume: 500.0 Operator: 7126

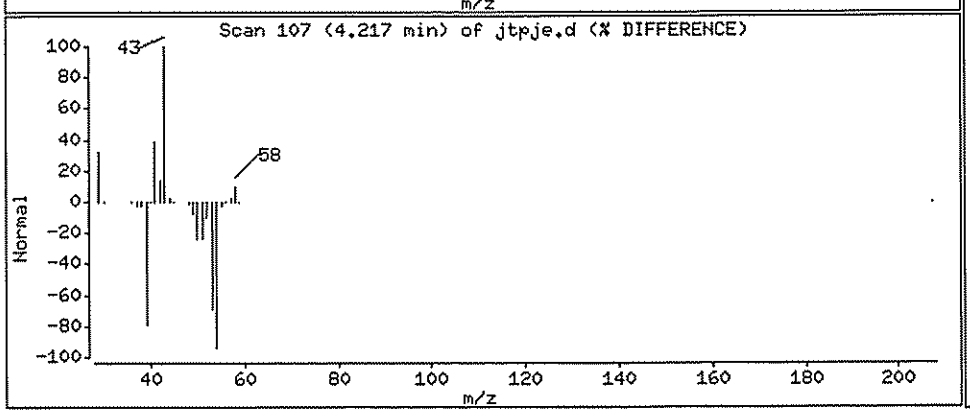
Column phase: Rtx-5 Column diameter: 0.32

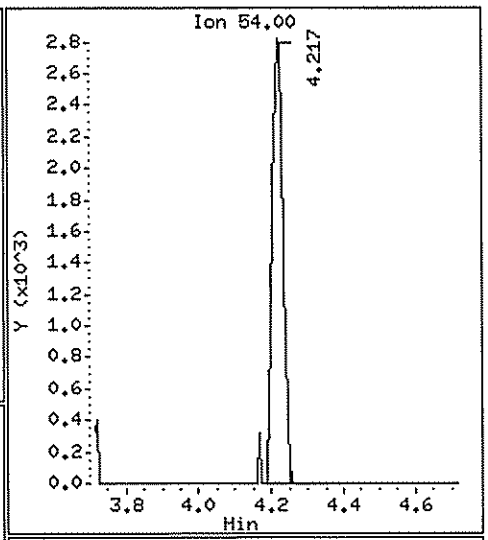
15 1,3-Butadiene Concentration: 0.2095 ppb(v/v)

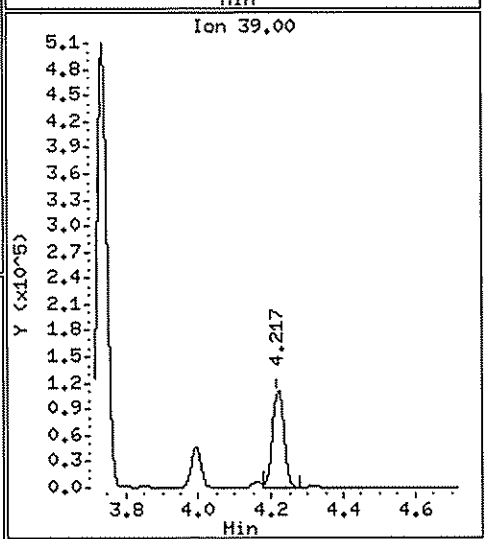


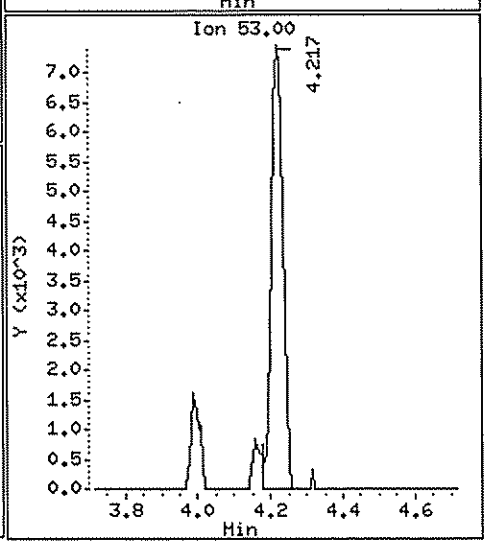












Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d

Date : 17-APR-2007 05:24

Client ID: SV-14(A,A)

Instrument: mj.i

Sample Info: JTPJE1AD,,0,,,

Purge Volume: 500.0

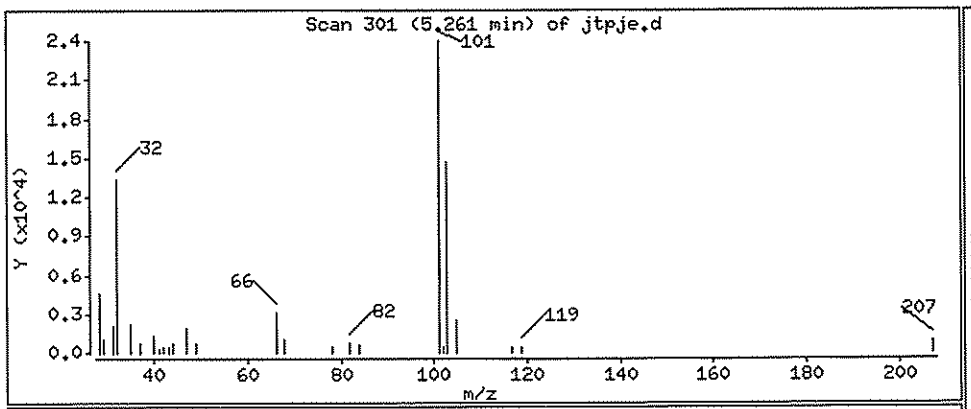
Operator: 7126

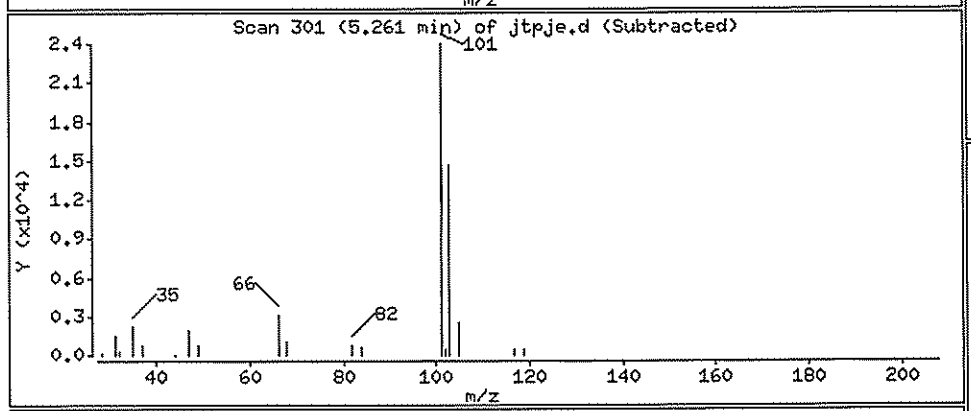
Column phase: Rtx-5

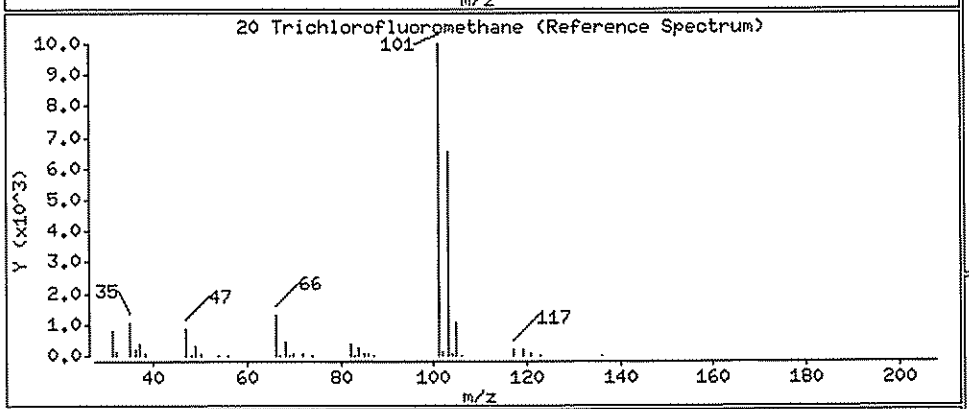
Column diameter: 0.32

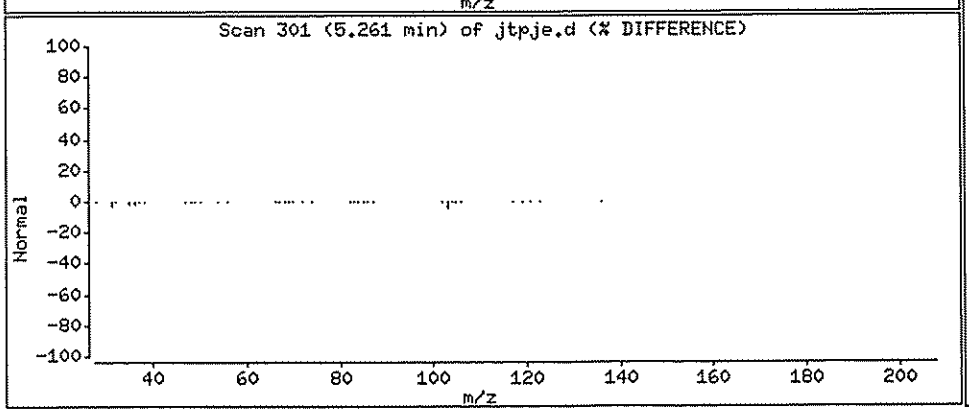
20 Trichlorofluoromethane

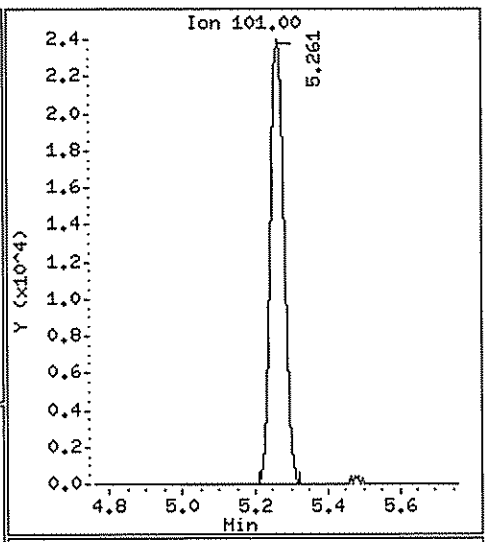
Concentration: 0.3969 ppb(v/v)

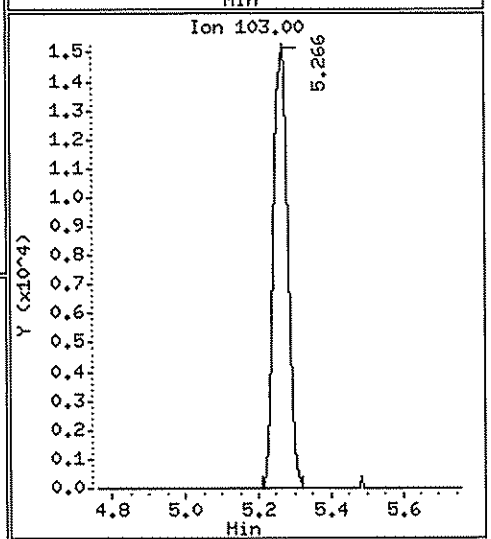


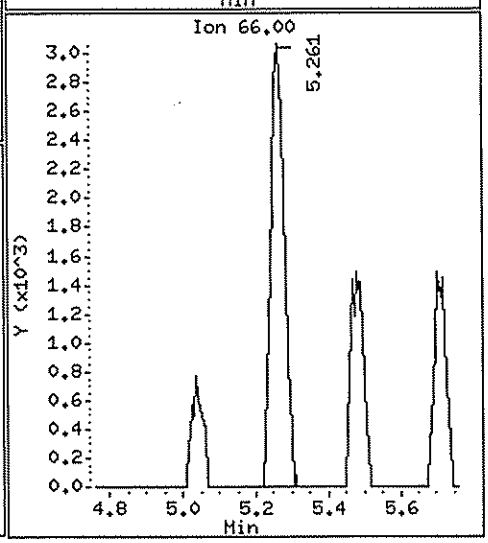












Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d

Date : 17-APR-2007 05:24

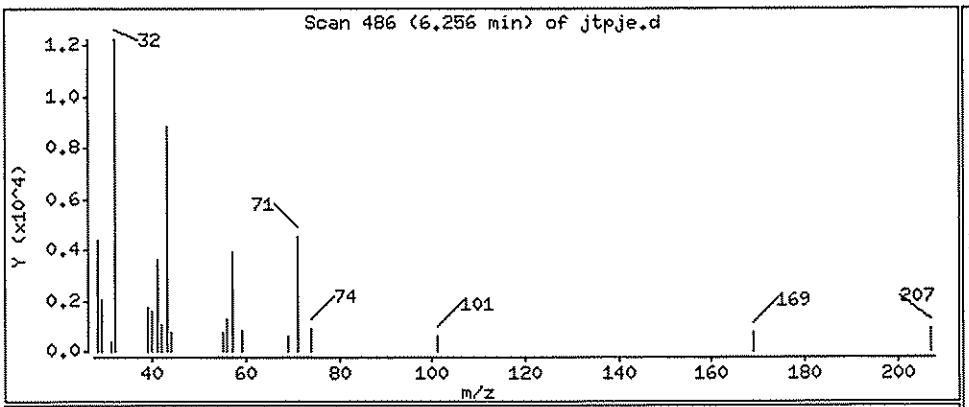
Client ID: SV-14(A,A) Instrument: mj.i

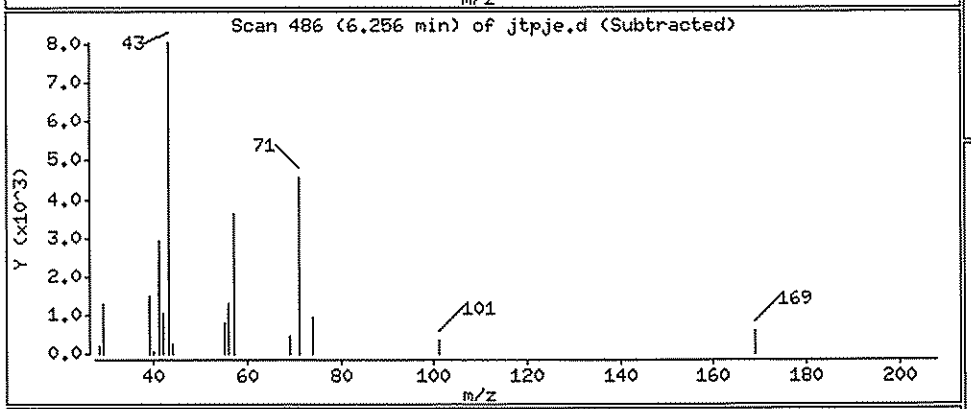
Sample Info: JTPJE1AD,,0,,,

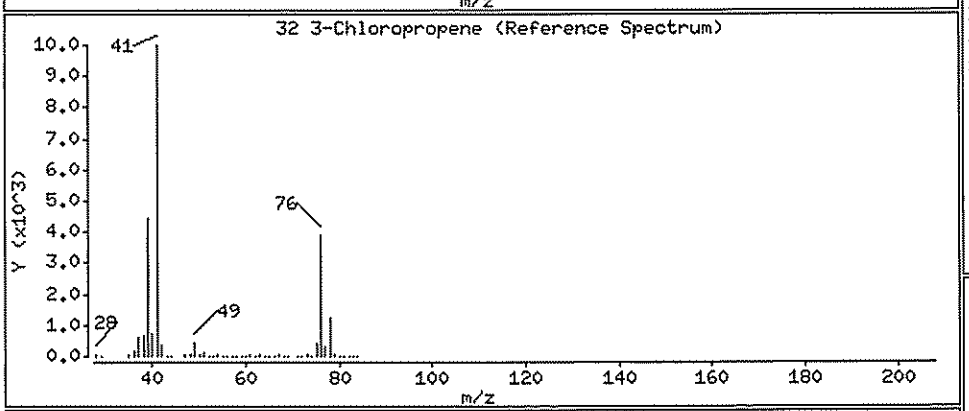
Purge Volume: 500.0 Operator: 7126

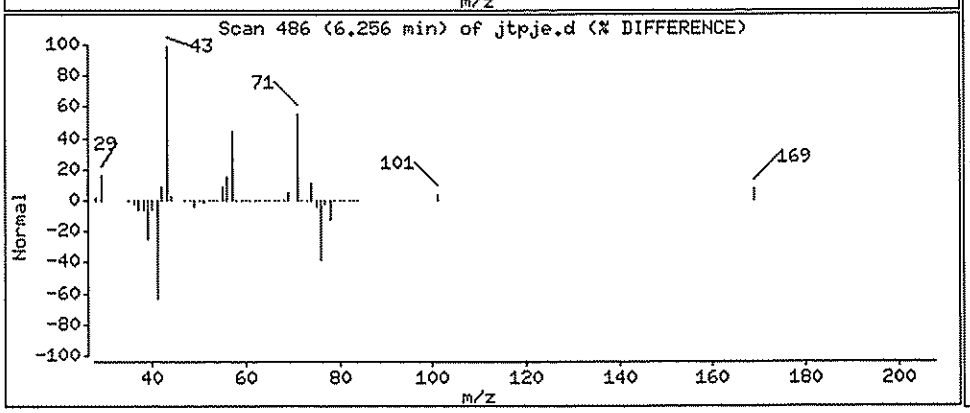
Column phase: Rtx-5 Column diameter: 0.32

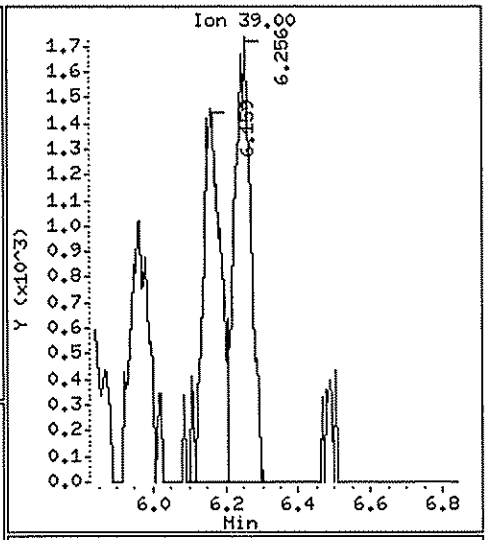
32 3-Chloropropene Concentration: 0.1287 ppb(v/v)

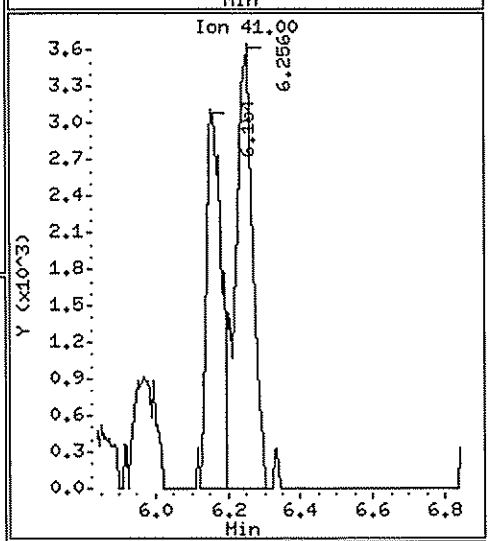


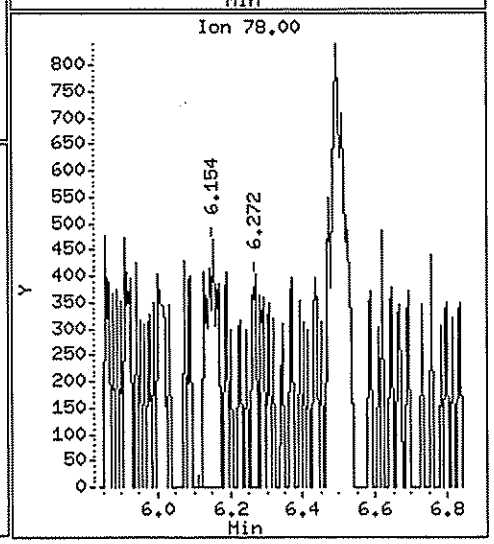












Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d

Date : 17-APR-2007 05:24

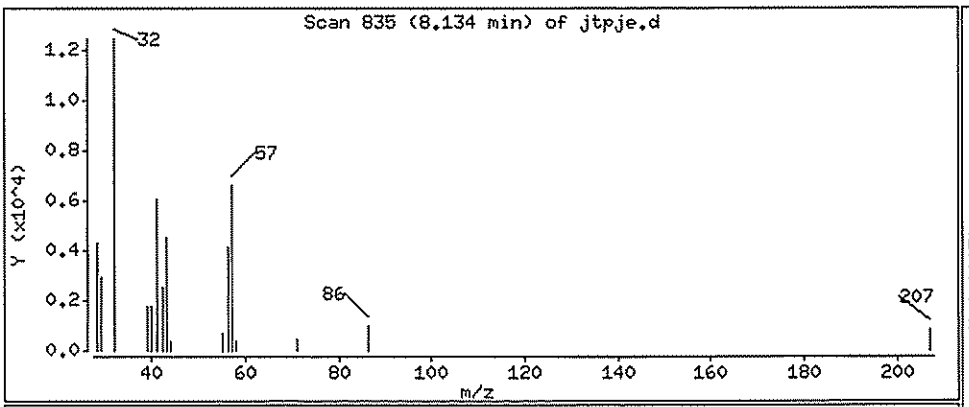
Client ID: SV-14(A,A) Instrument: mj.i

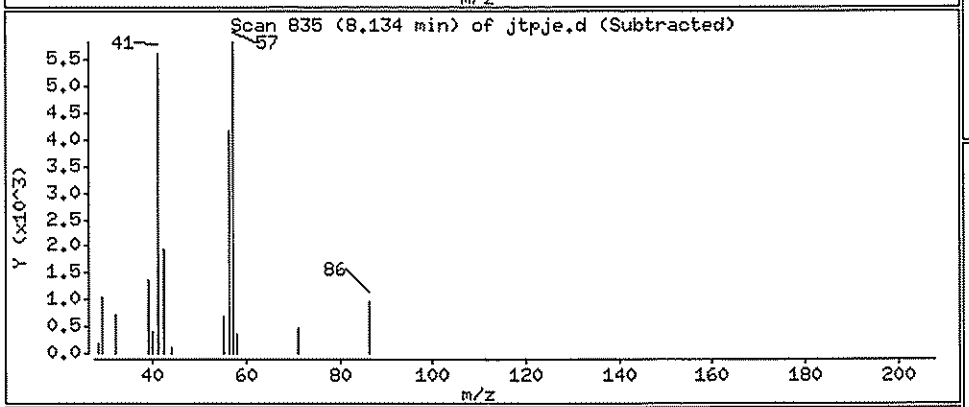
Sample Info: JTPJE1AD,,0,,,

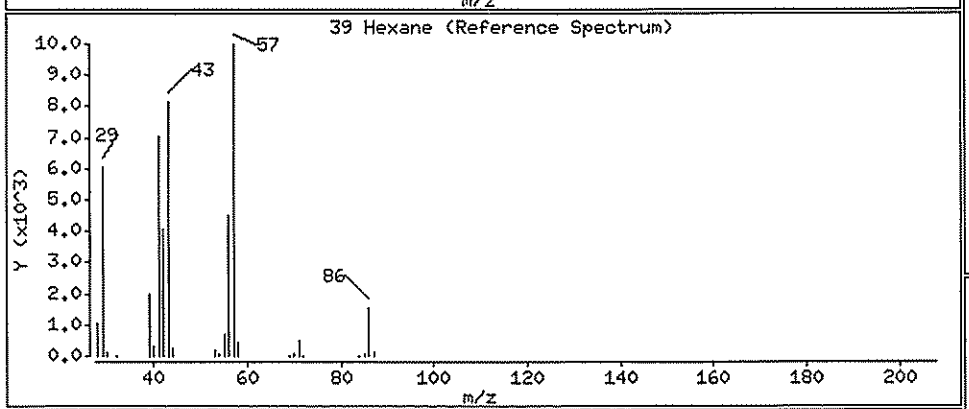
Purge Volume: 500.0 Operator: 7126

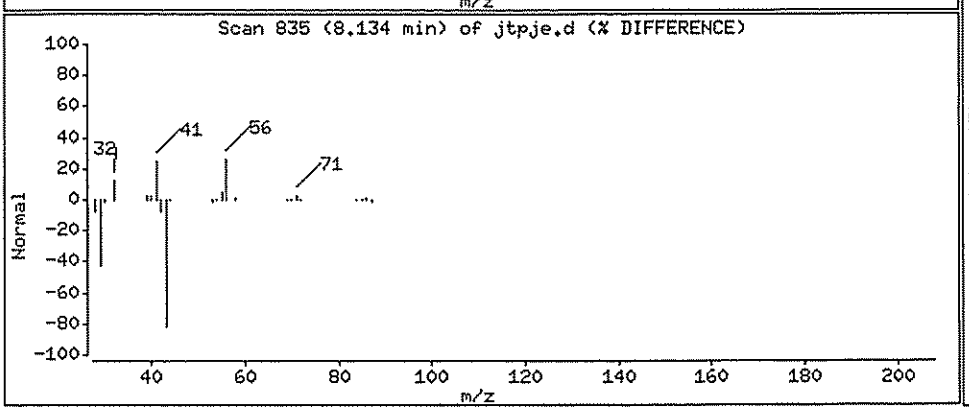
Column phase: Rtx-5 Column diameter: 0.32

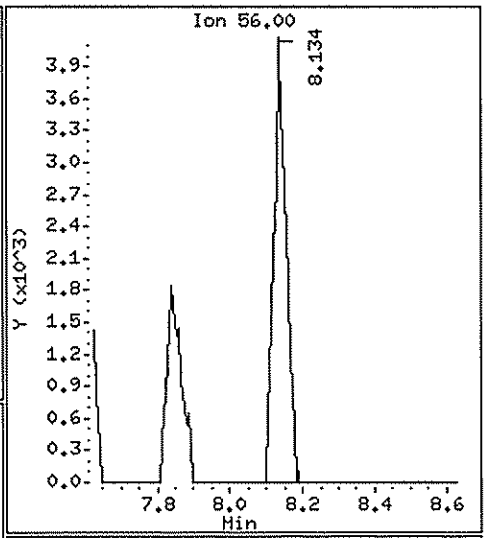
39 Hexane Concentration: 0.2934 ppb(v/v)

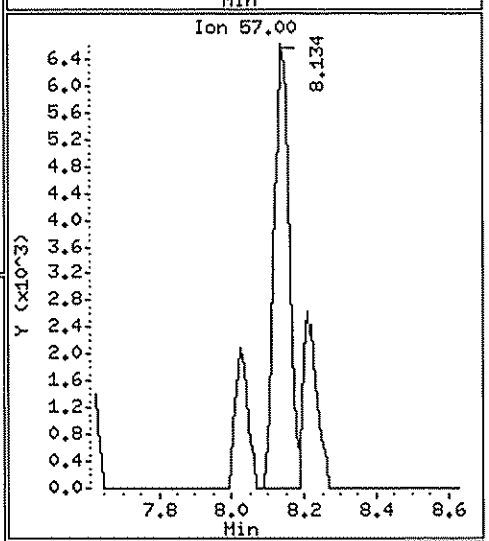


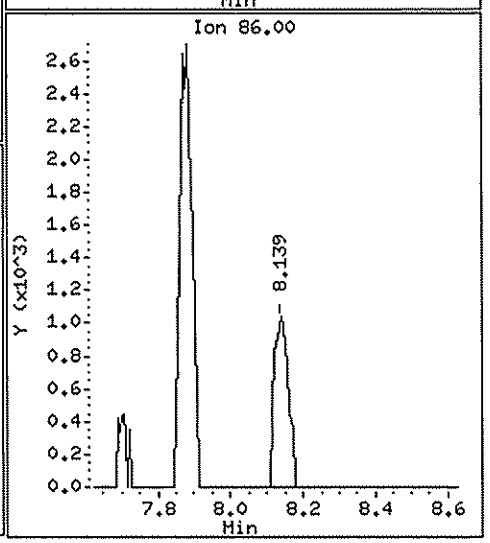












Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d

Date : 17-APR-2007 05:24

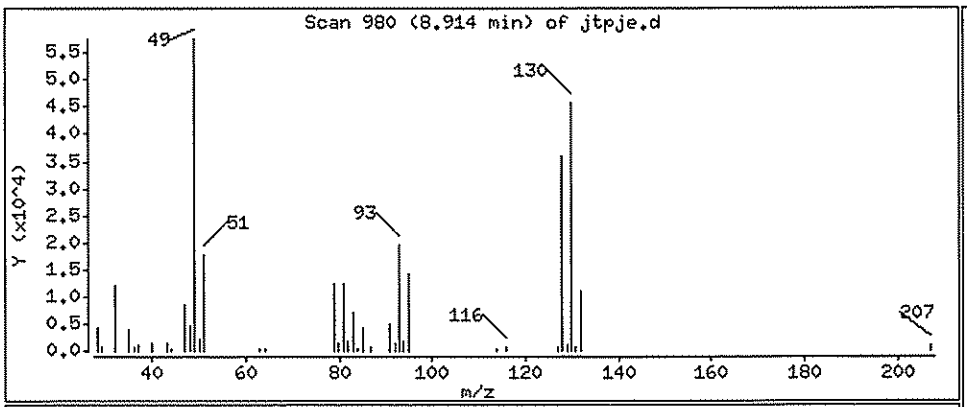
Client ID: SV-14(A,A) Instrument: mj.i

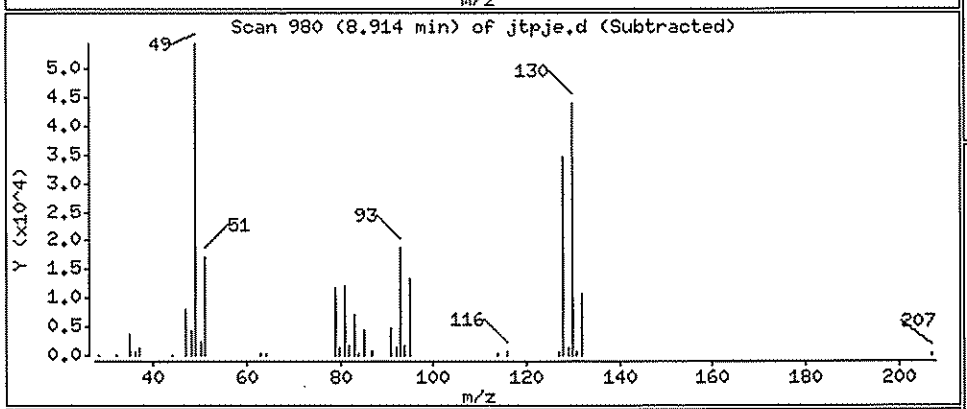
Sample Info: JTPJE1AD,,0,,,

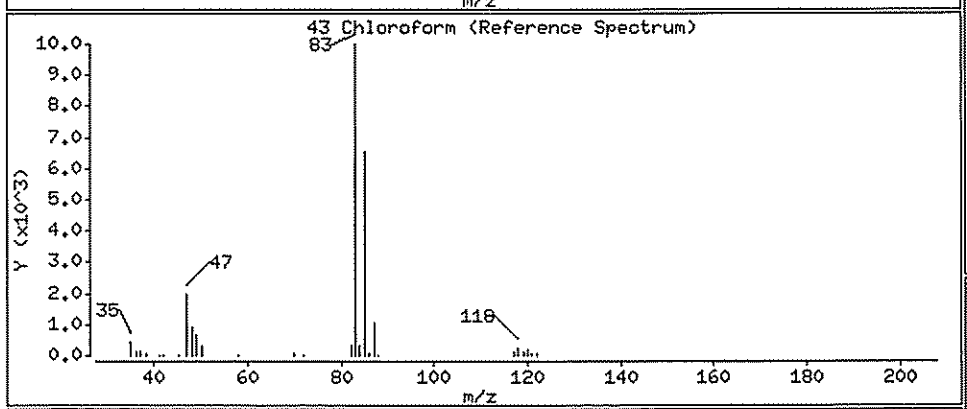
Purge Volume: 500.0 Operator: 7126

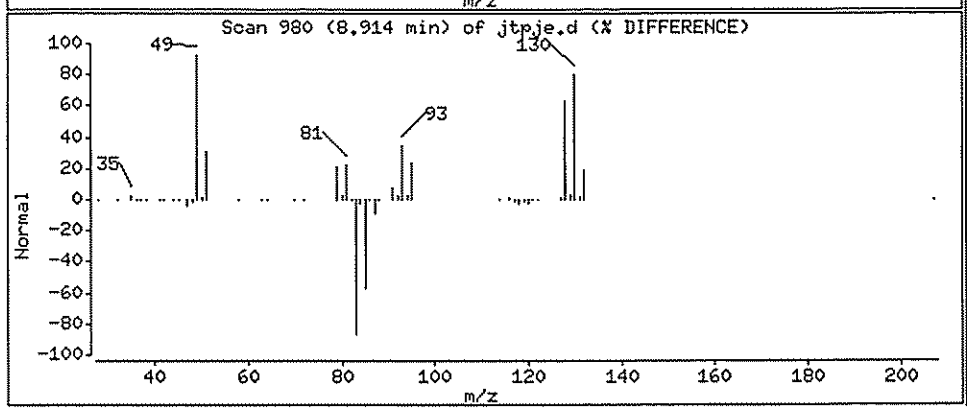
Column phase: Rtx-5 Column diameter: 0.32

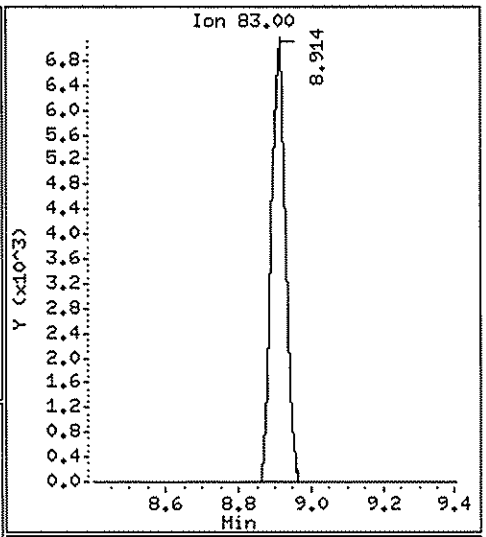
43 Chloroform Concentration: 0.1938 ppb(v/v)

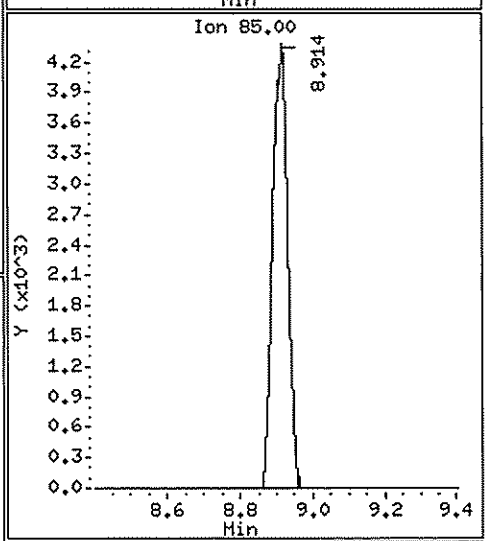


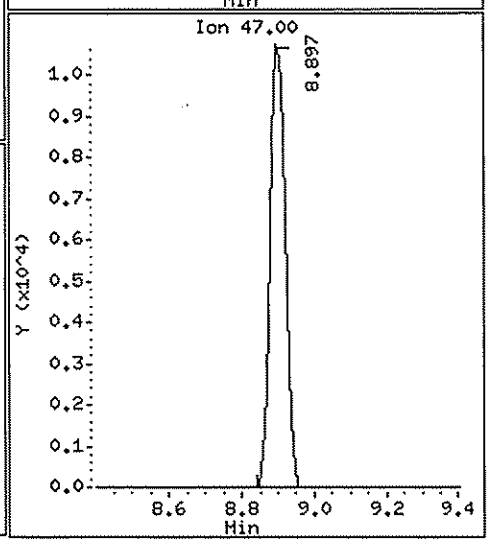












Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d

Date : 17-APR-2007 05:24

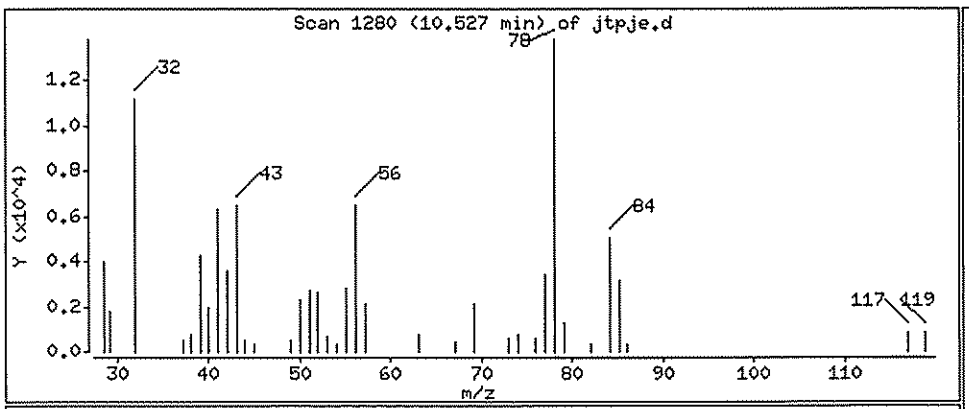
Client ID: SV-14(A.A) Instrument: mj.i

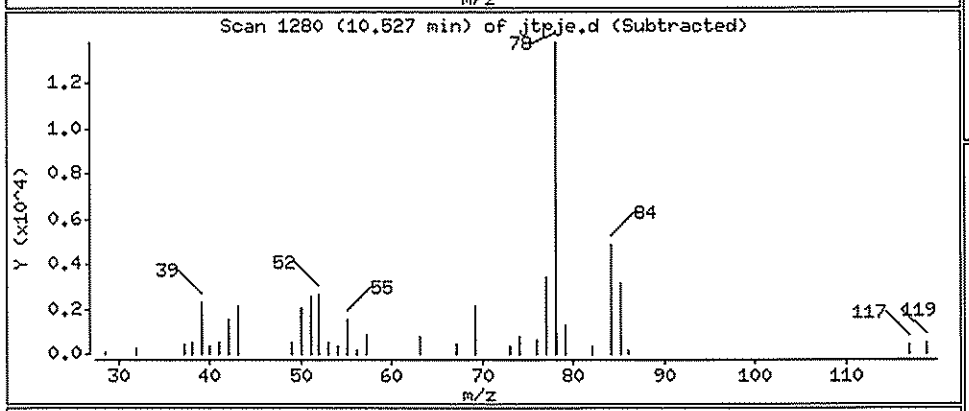
Sample Info: JTPJE1AD,,0,,,

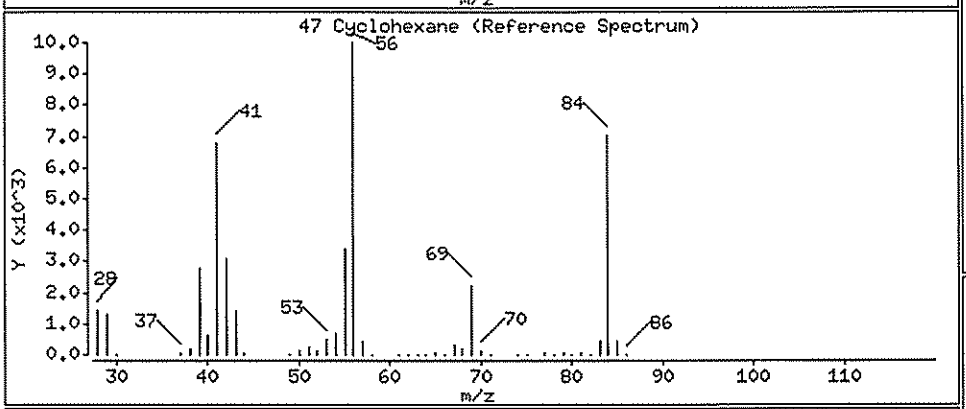
Purge Volume: 500.0 Operator: 7126

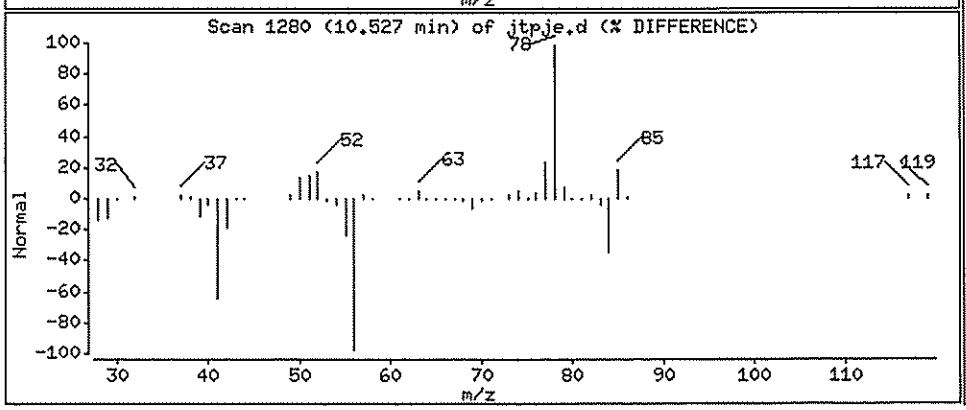
Column phase: Rtx-5 Column diameter: 0.32

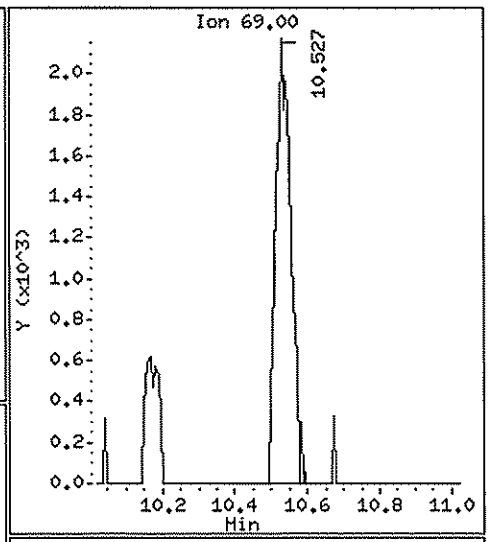
47 Cyclohexane Concentration: 0.3097 ppb(v/v)

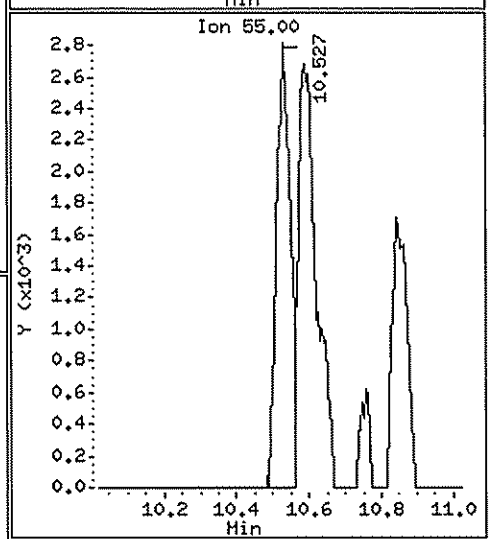


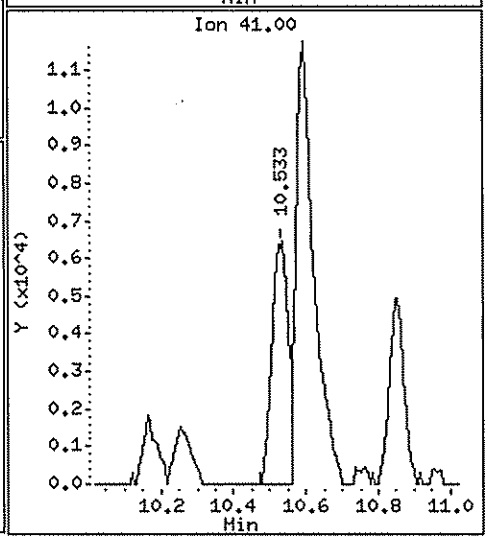












Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d

Date : 17-APR-2007 05:24

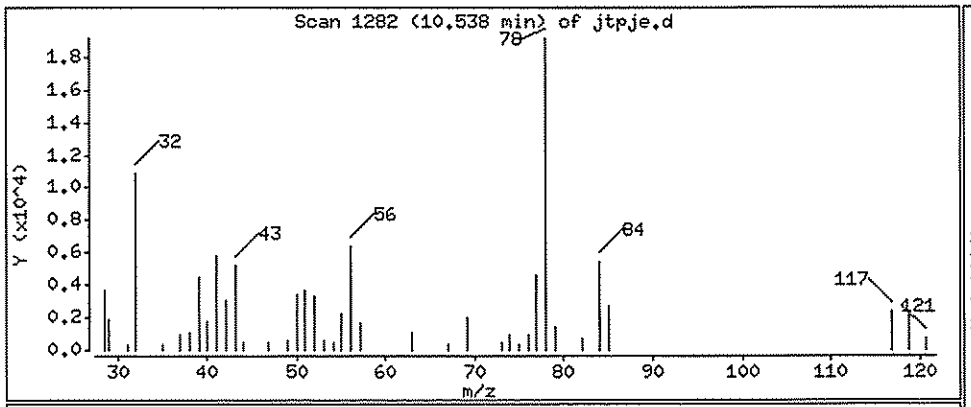
Client ID: SV-14(A.A) Instrument: mj.i

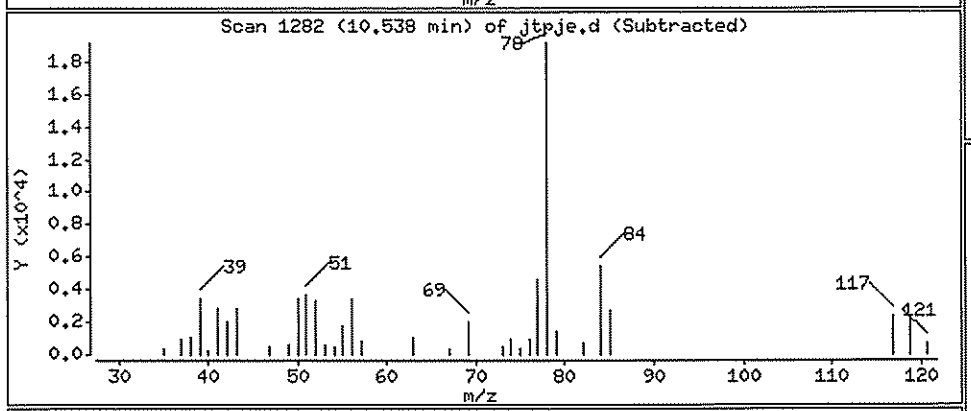
Sample Info: JTPJE1AD,,0,,,

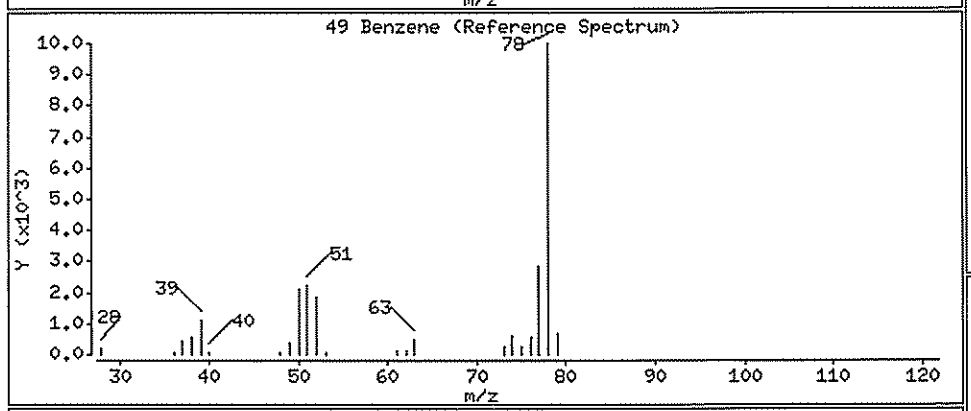
Purge Volume: 500.0 Operator: 7126

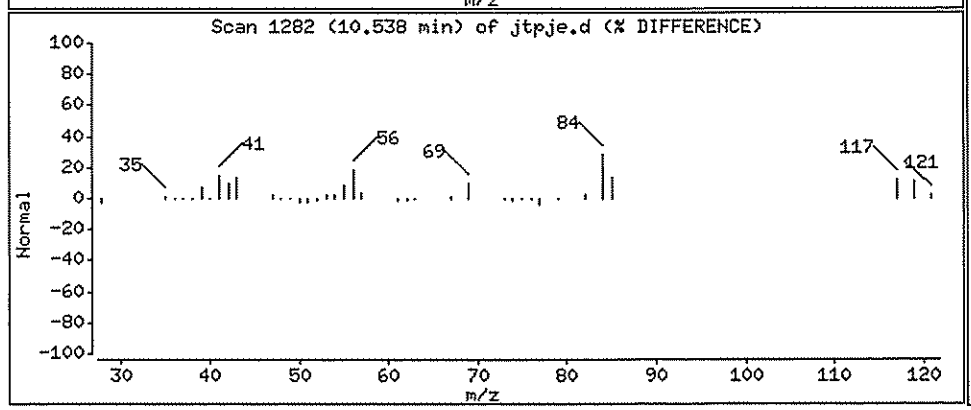
Column phase: Rtx-5 Column diameter: 0.32

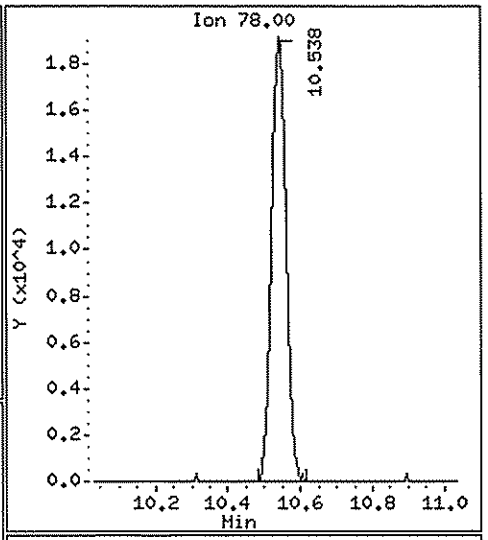
49 Benzene Concentration: 0.4620 ppb(v/v)

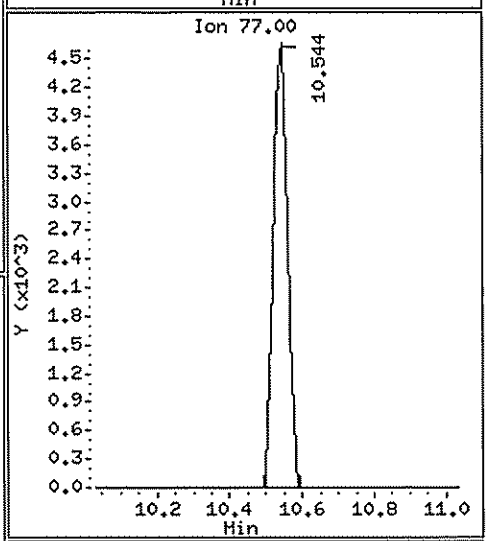


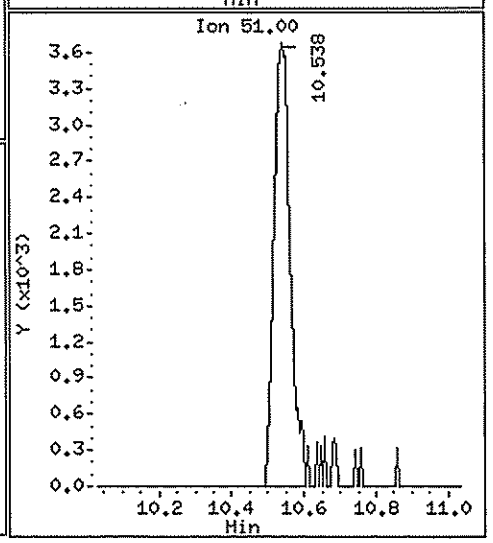












Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d

Date : 17-APR-2007 05:24

Client ID: SV-14(A,A)

Instrument: mj.i

Sample Info: JTPJE1AD,,0,,,

Purge Volume: 500.0

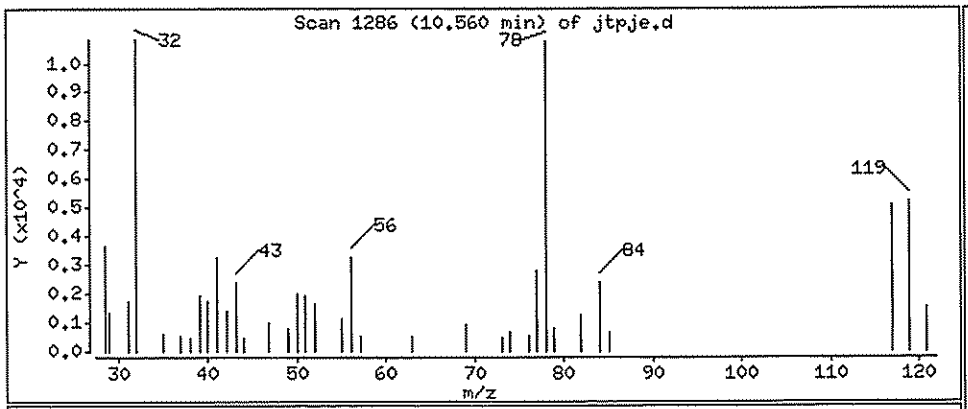
Operator: 7126

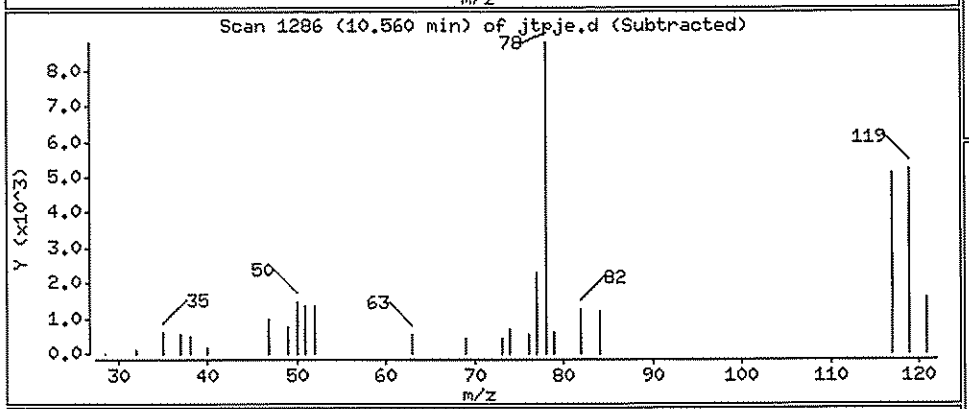
Column phase: Rtx-5

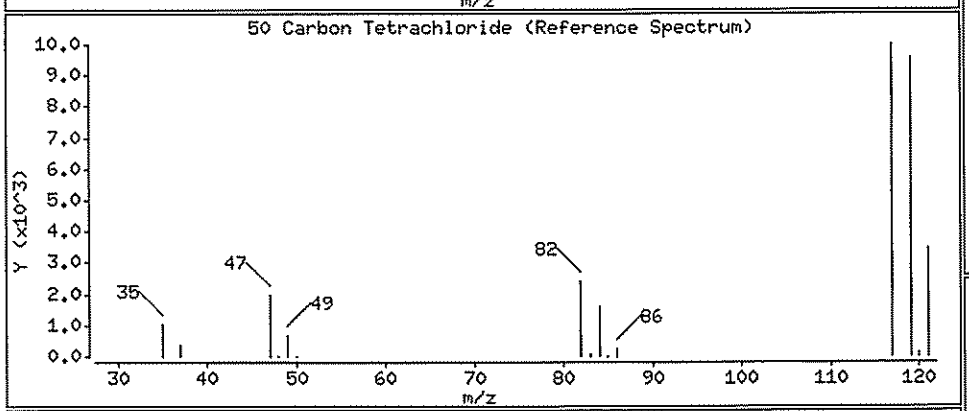
Column diameter: 0.32

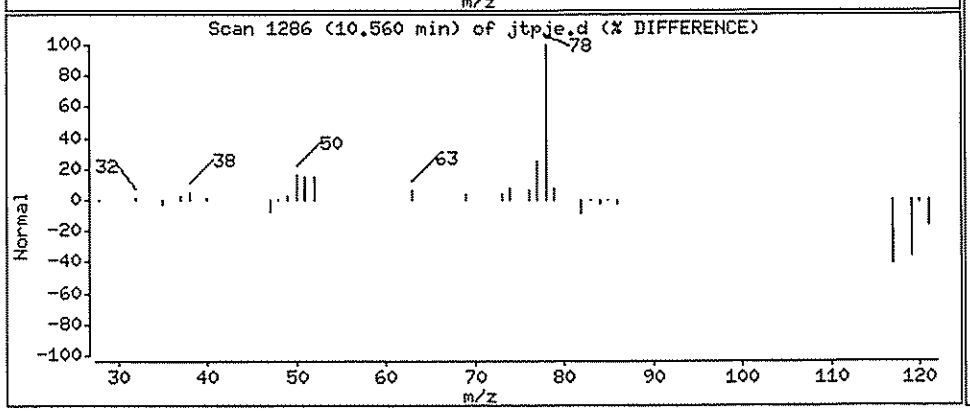
50 Carbon Tetrachloride

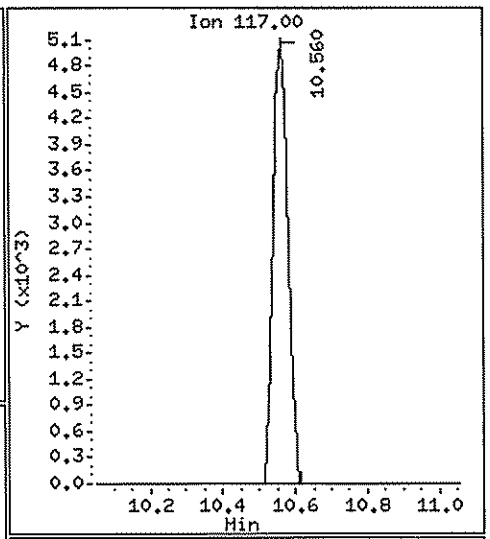
Concentration: 0.1225 ppb(v/v)

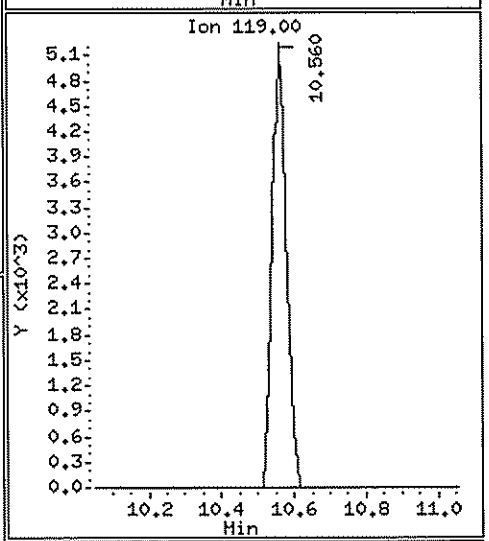


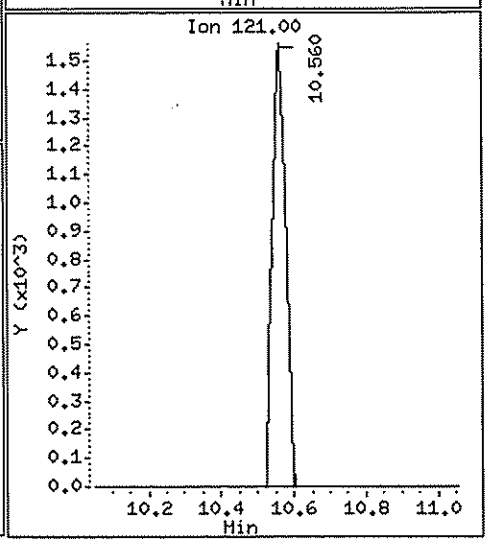












Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d

Date : 17-APR-2007 05:24

Client ID: SV-14(A.A)

Instrument: mj.i

Sample Info: JTPJE1AD,,0,,,

Purge Volume: 500.0

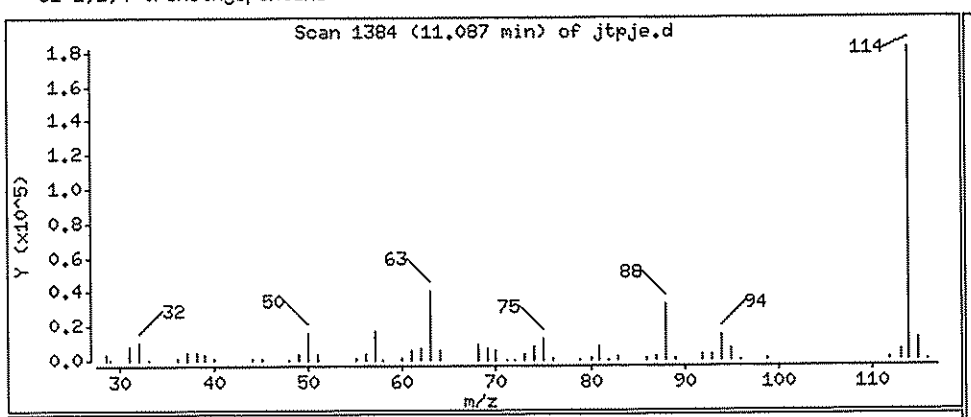
Operator: 7126

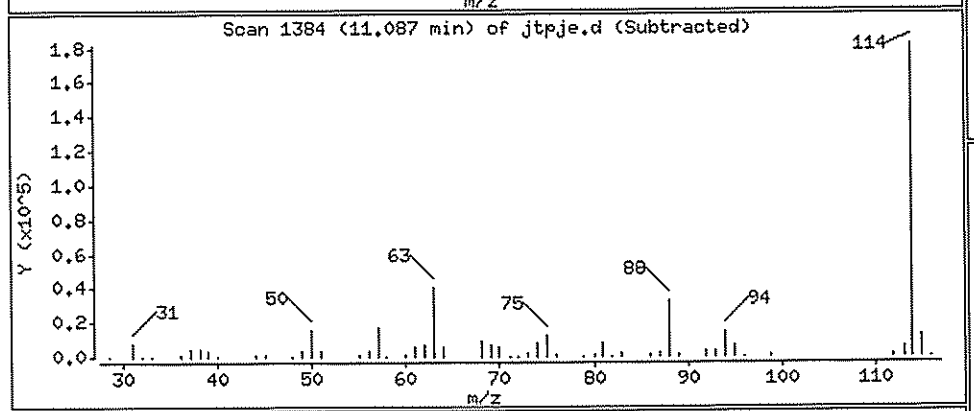
Column phase: Rtx-5

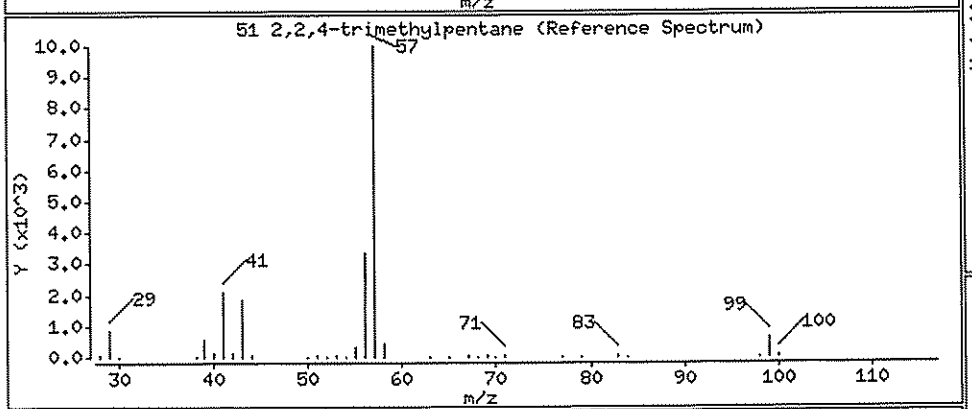
Column diameter: 0.32

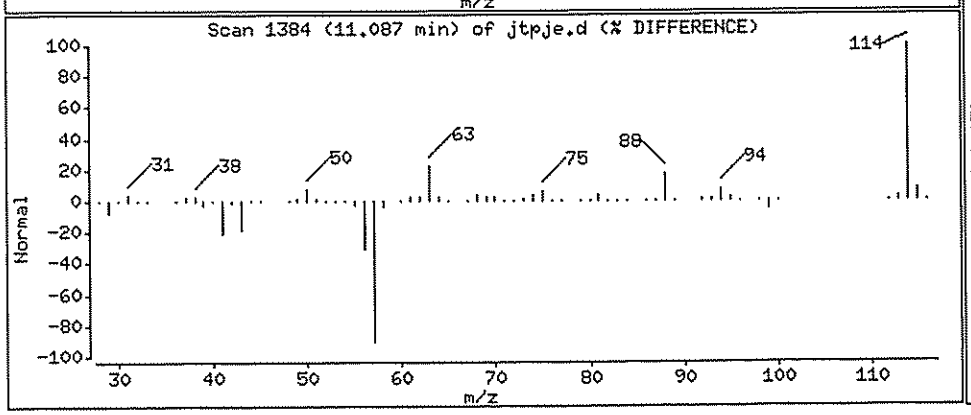
51 2,2,4-trimethylpentane

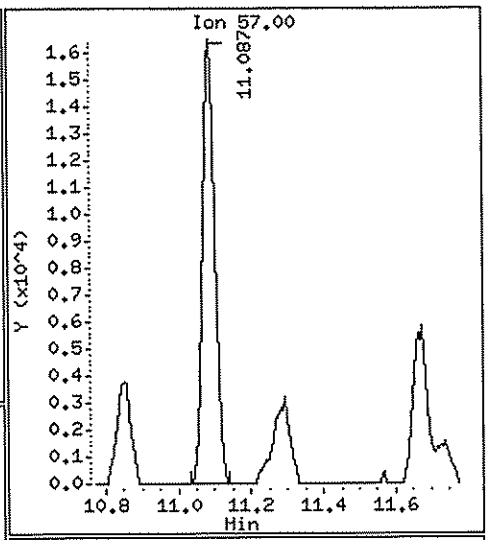
Concentration: 0.2198 ppb(v/v)

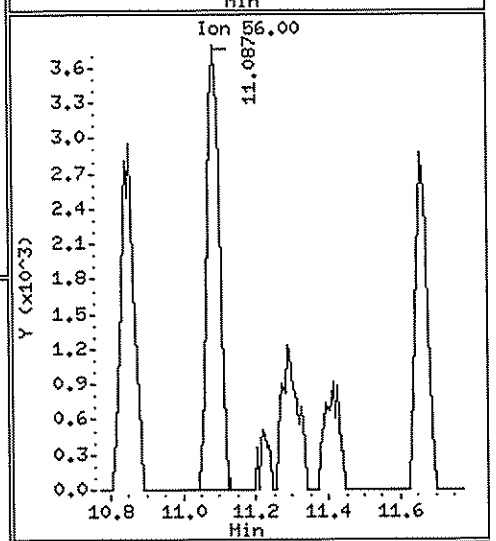


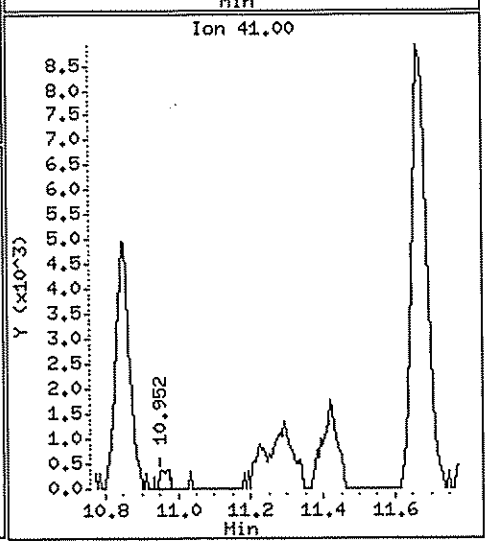












Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d

Date : 17-APR-2007 05:24

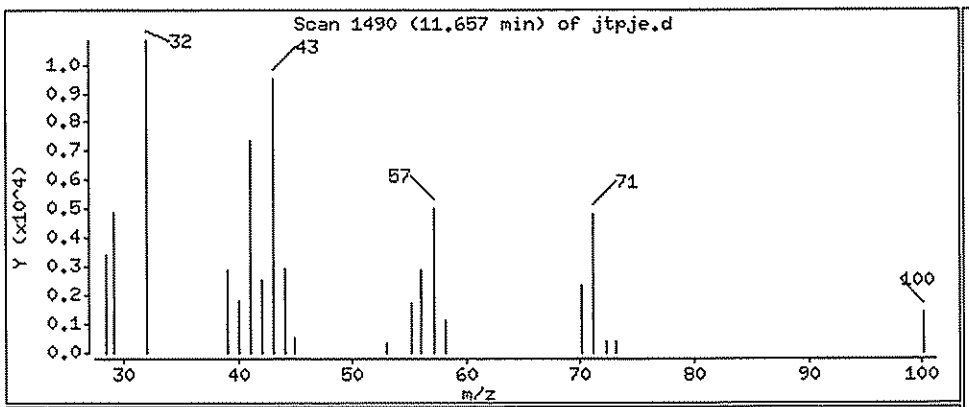
Client ID: SV-14(A.A) Instrument: mj.i

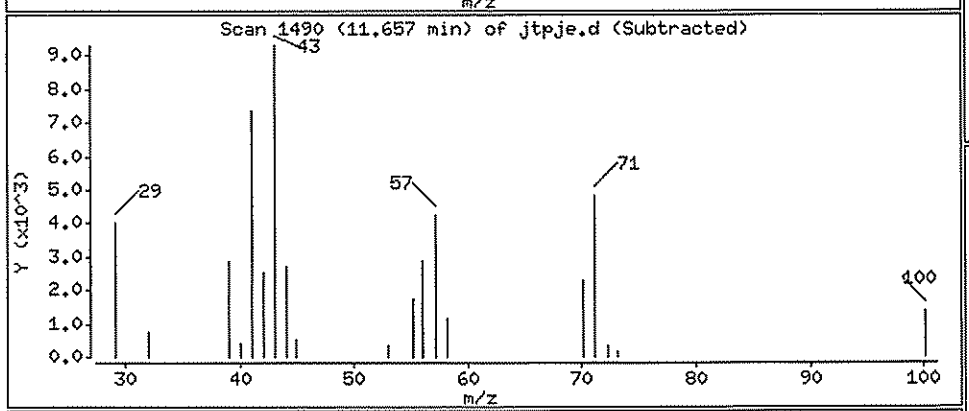
Sample Info: JTPJE1AD,,0,,,

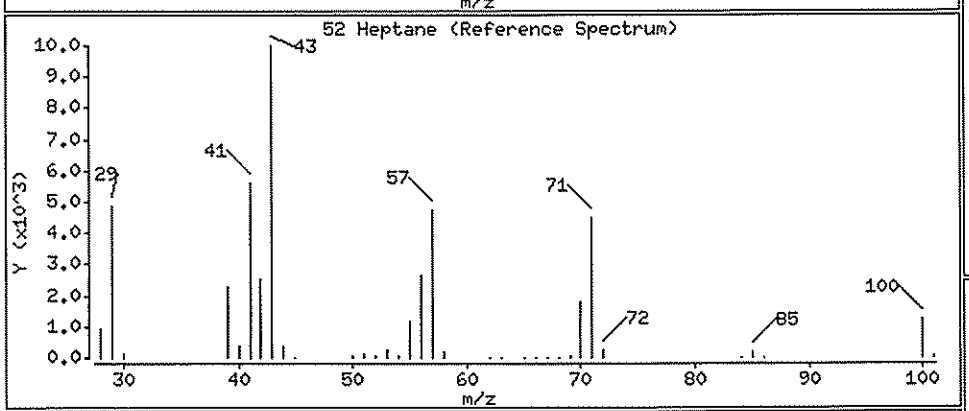
Purge Volume: 500.0 Operator: 7126

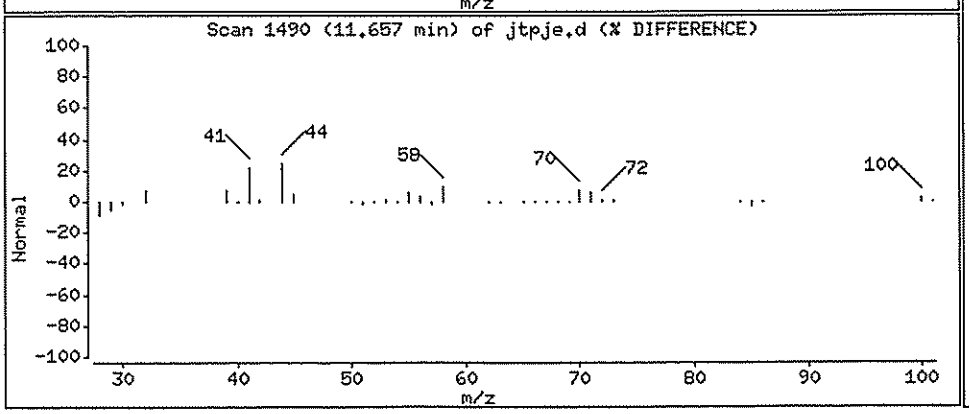
Column phase: Rtx-5 Column diameter: 0.32

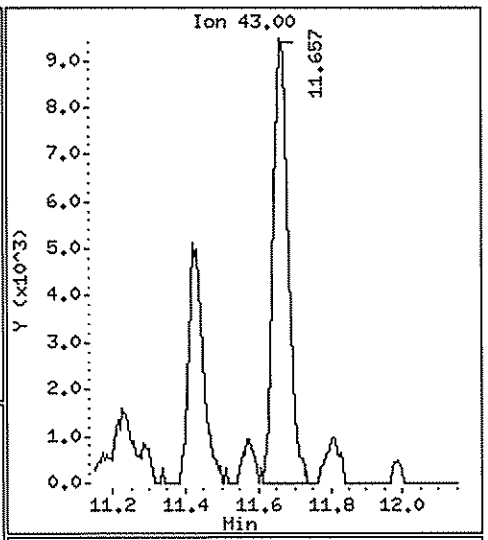
52 Heptane Concentration: 0.4124 ppb(v/v)

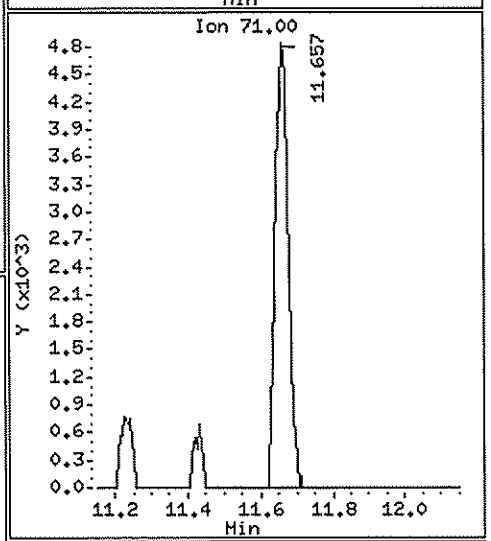


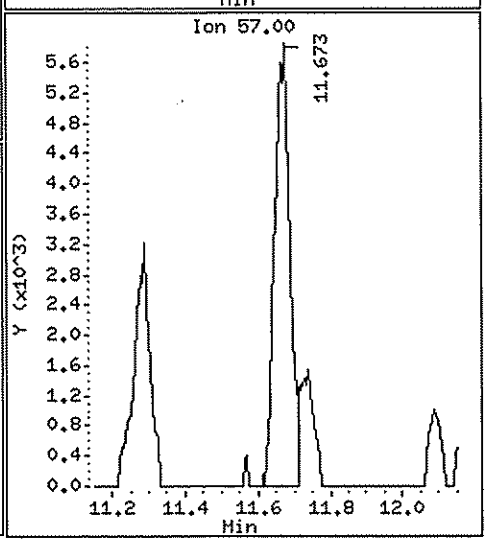












Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d

Date : 17-APR-2007 05:24

Client ID: SV-14(A.A)

Instrument: mj.i

Sample Info: JTPJE1AD,,0,,,

Purge Volume: 500.0

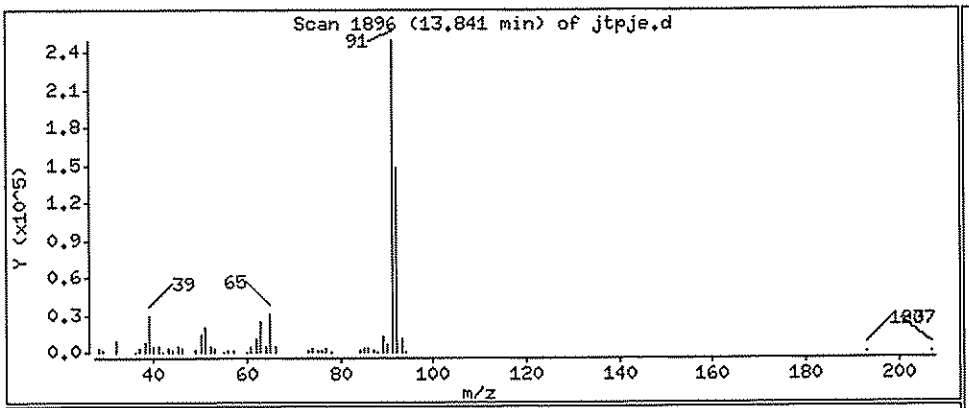
Operator: 7126

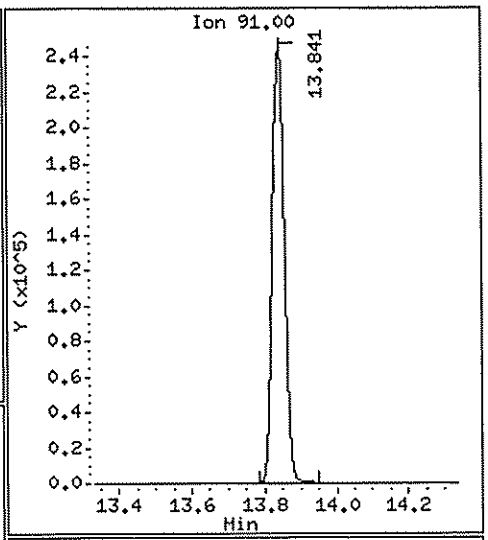
Column phase: Rtx-5

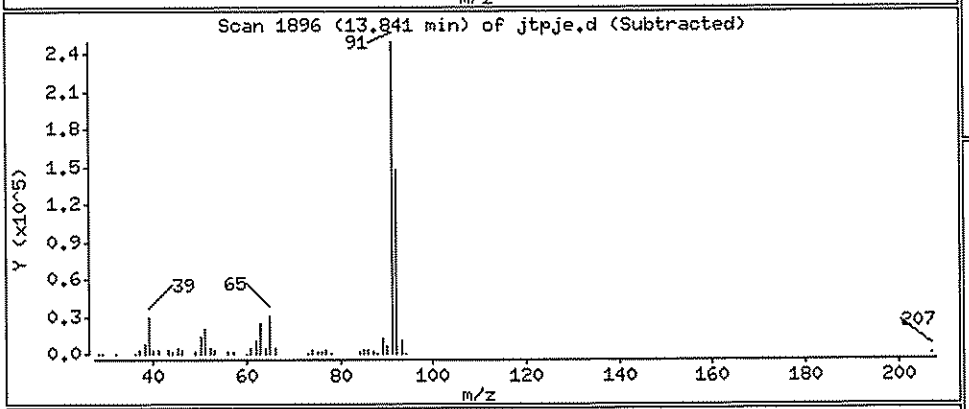
Column diameter: 0.32

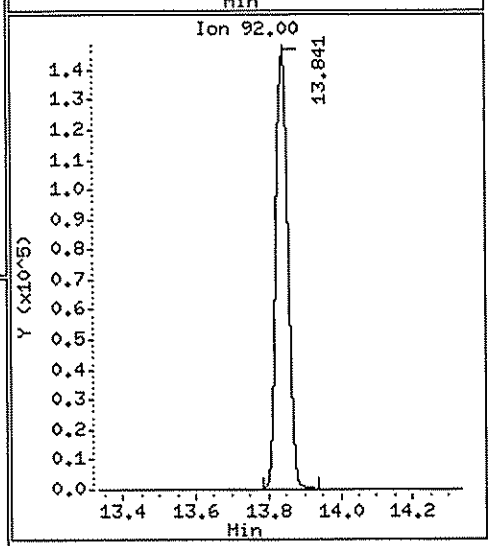
62 Toluene

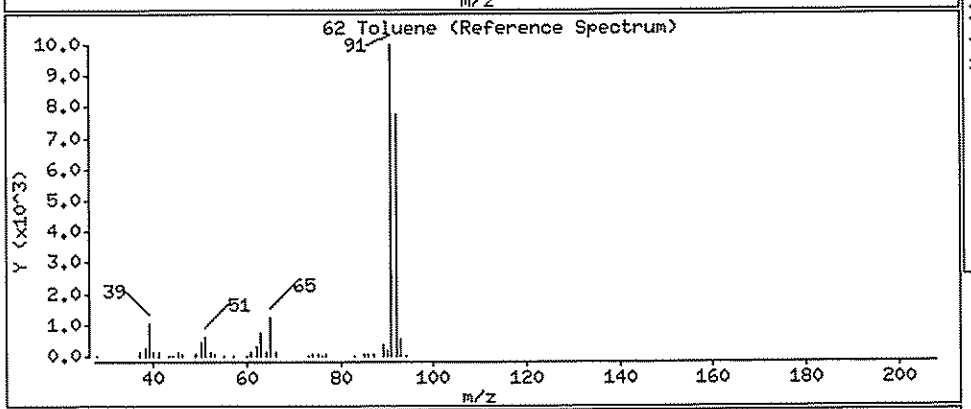
Concentration: 4.923 ppb(v/v)

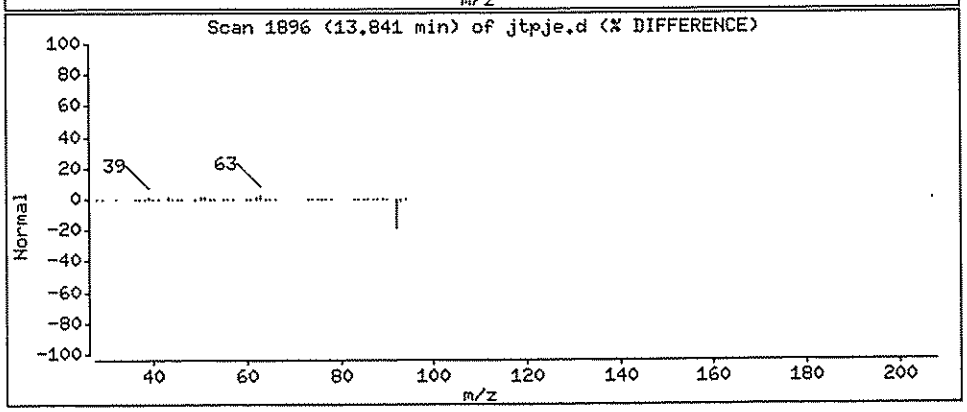












Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d

Date : 17-APR-2007 05:24

Client ID: SV-14(A.A)

Instrument: mj.i

Sample Info: JTPJE1AD,,0,,,

Purge Volume: 500.0

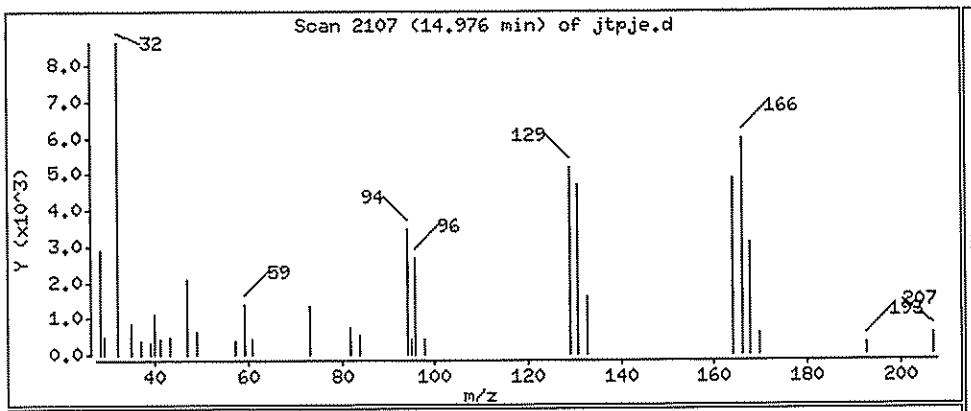
Operator: 7126

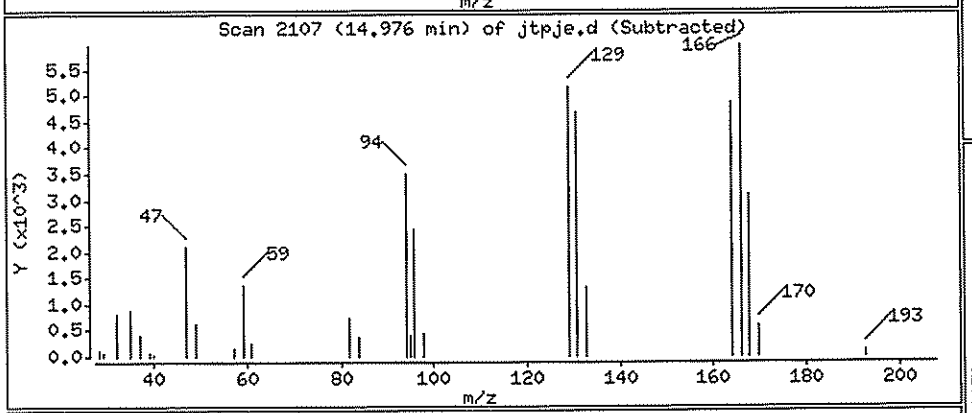
Column phase: Rtx-5

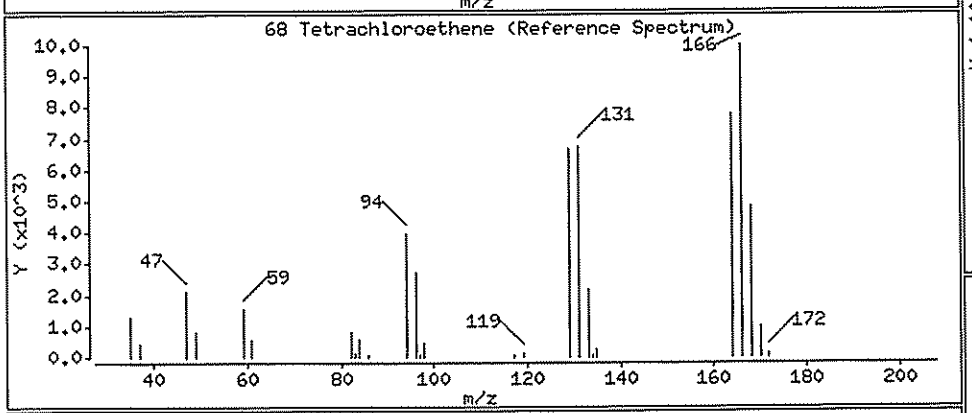
Column diameter: 0.32

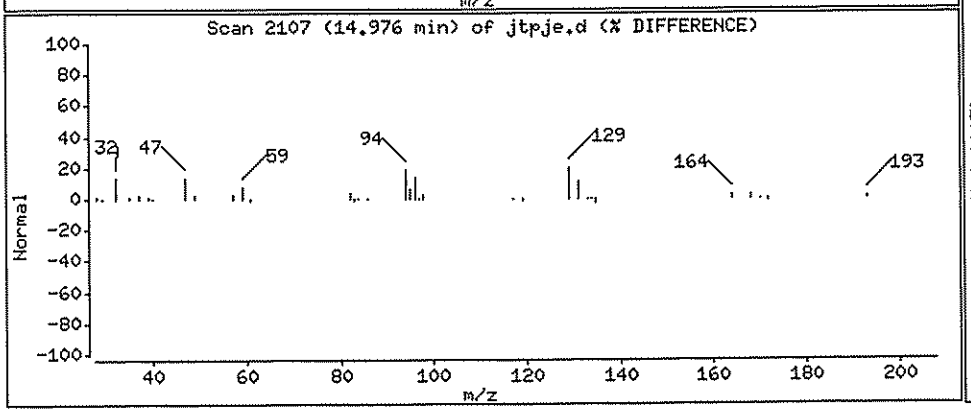
68 Tetrachloroethene

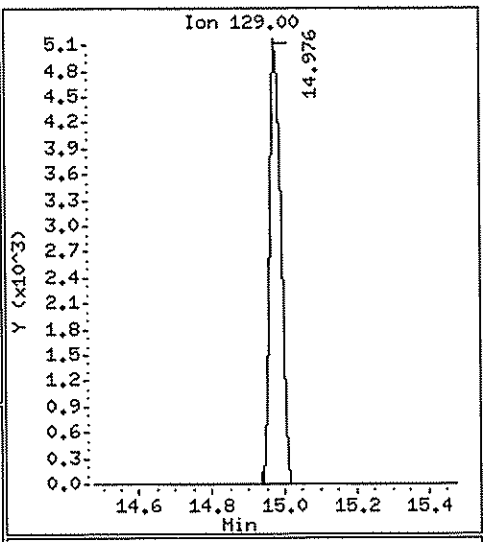
Concentration: 0.1965 ppb(v/v)

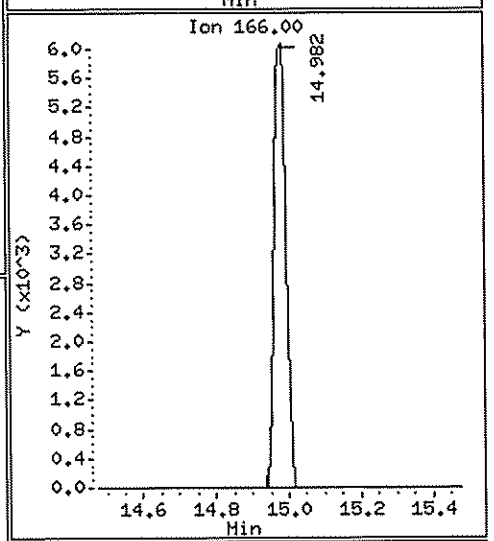


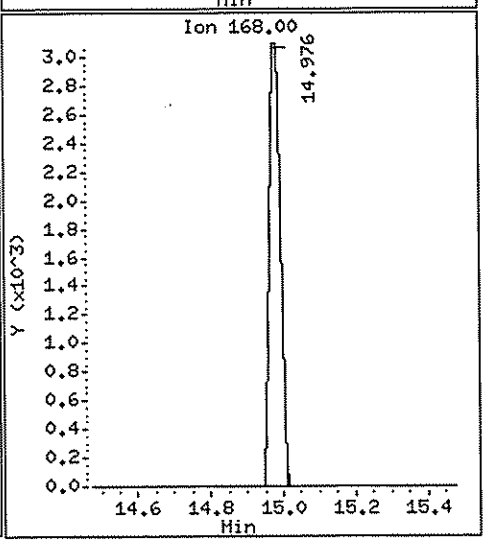












Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d

Date : 17-APR-2007 05:24

Client ID: SV-14(A,A)

Instrument: mj.i

Sample Info: JTPJE1AD,,0,,,

Purge Volume: 500.0

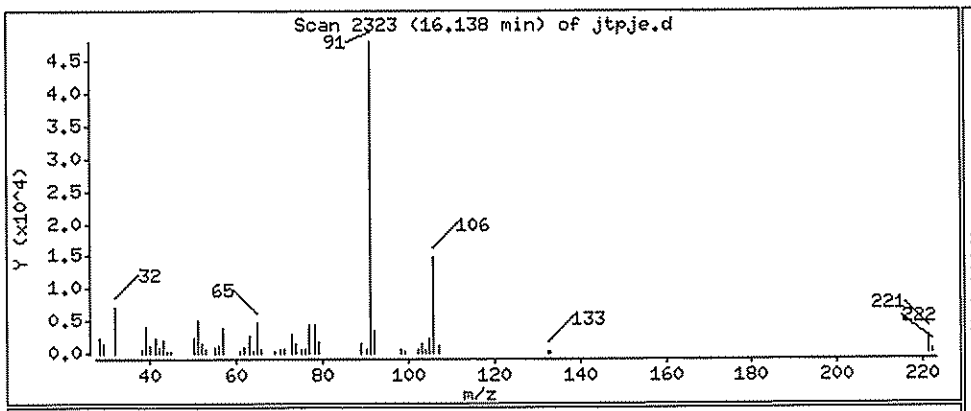
Operator: 7126

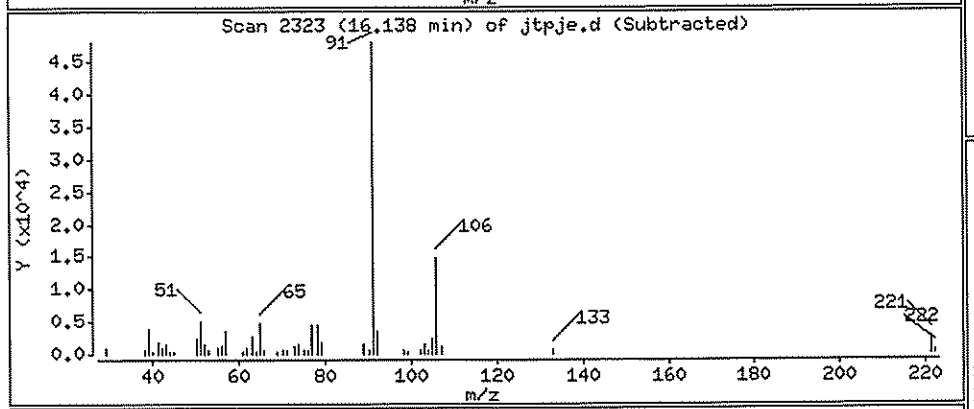
Column phase: Rtx-5

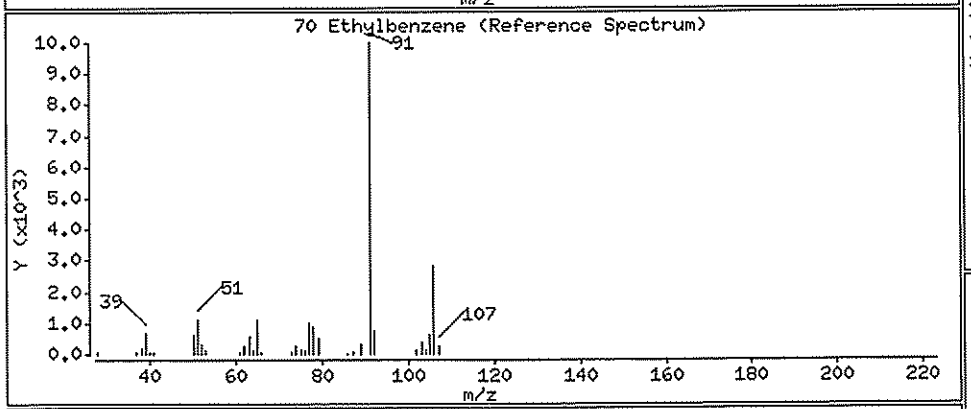
Column diameter: 0.32

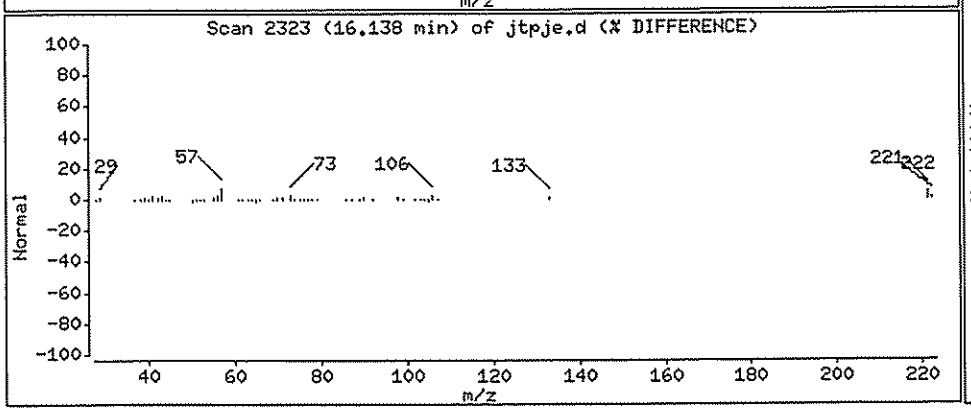
70 Ethylbenzene

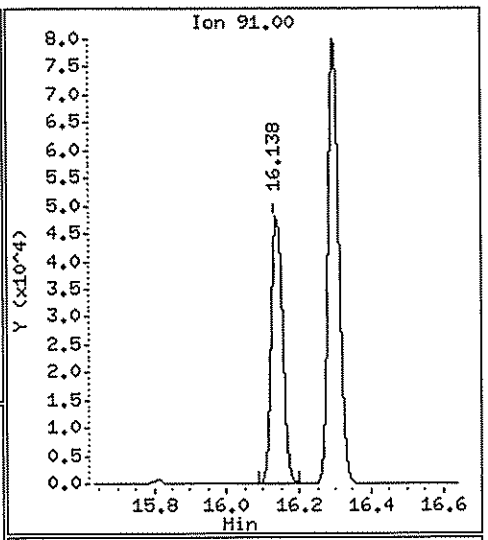
Concentration: 0.7337 ppb(v/v)

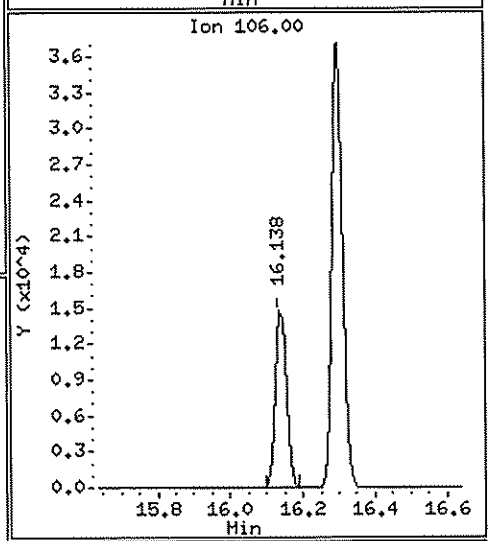


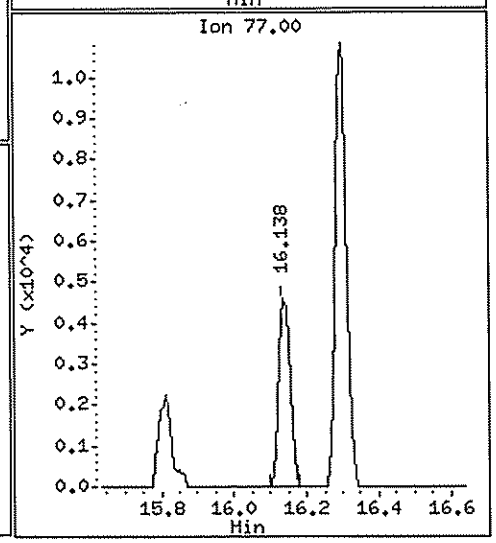












Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d

Date : 17-APR-2007 05:24

Client ID: SV-14(A,A)

Instrument: mj.i

Sample Info: JTPJE1AD,,0,,,

Purge Volume: 500.0

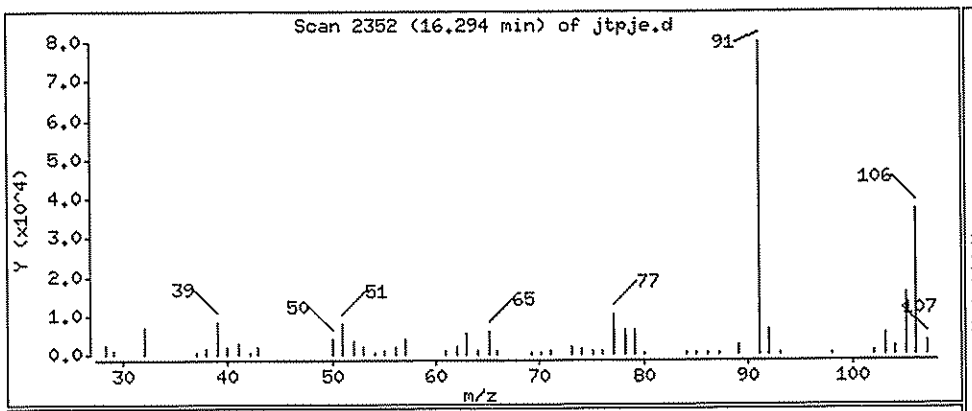
Operator: 7126

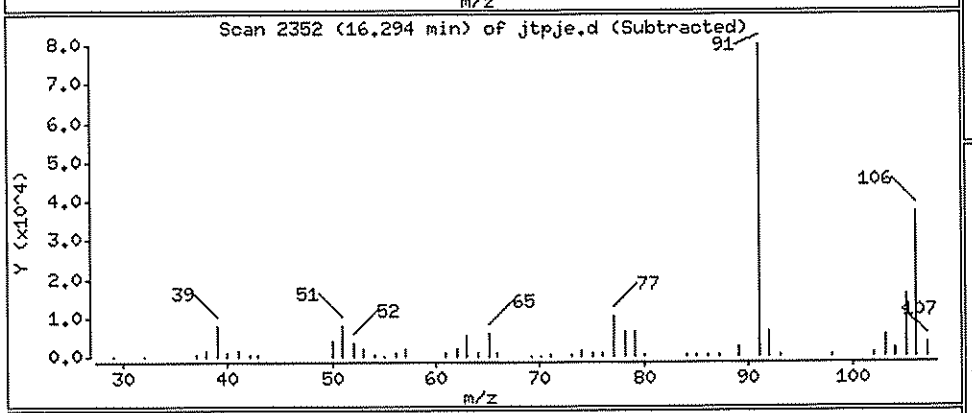
Column phase: Rtx-5

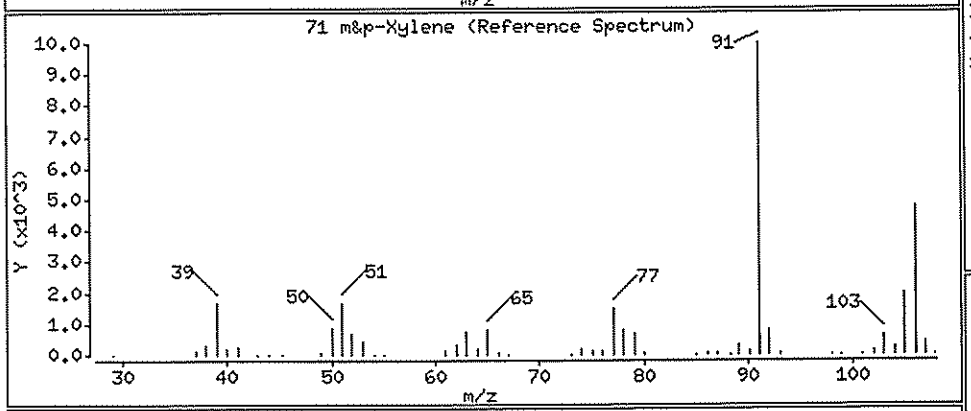
Column diameter: 0.32

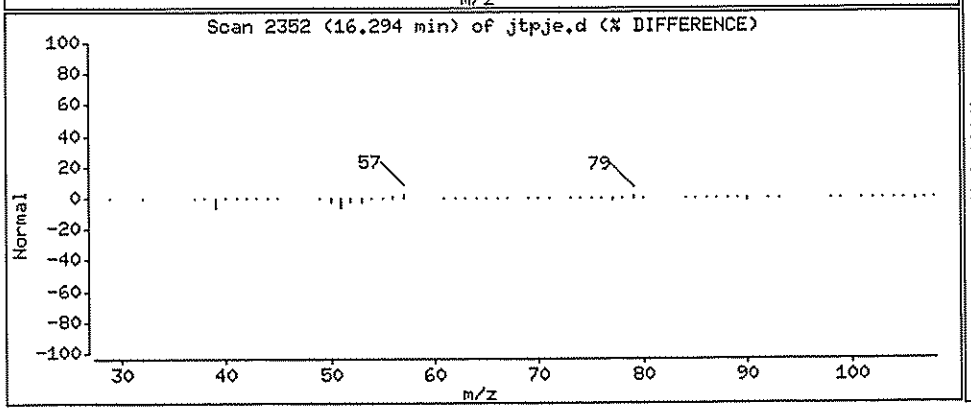
71 m&p-Xylene

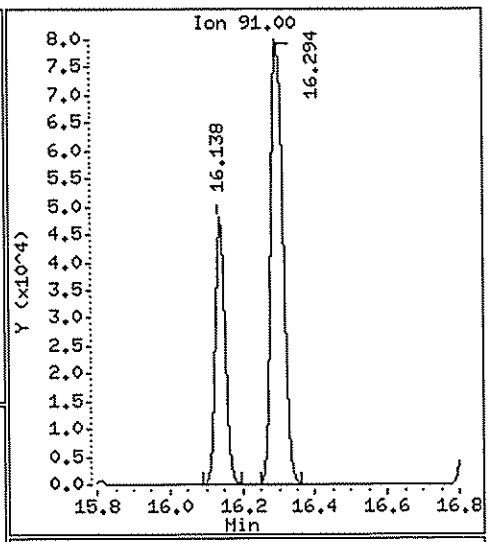
Concentration: 1.758 ppb(v/v)

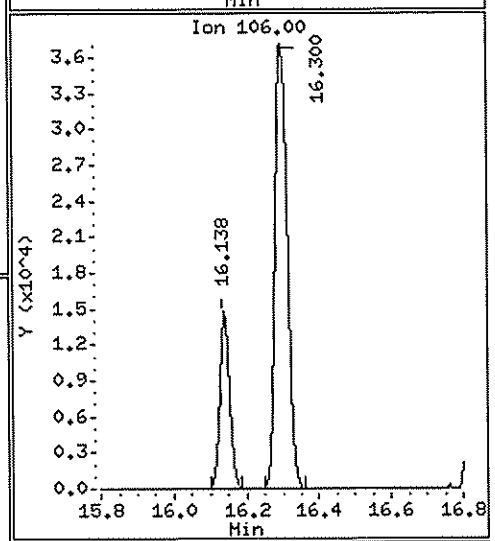


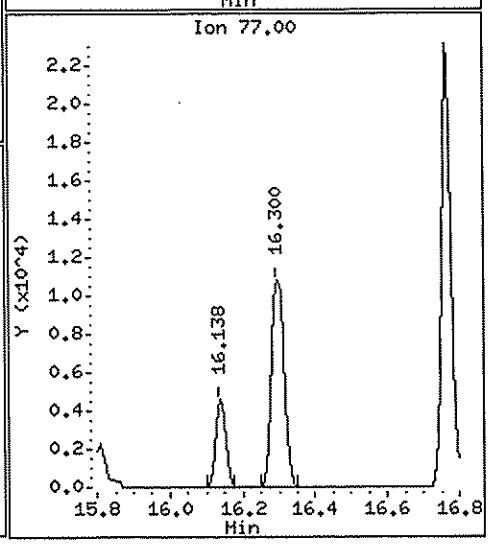












Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d

Date : 17-APR-2007 05:24

Client ID: SV-14(A,A)

Instrument: mj.i

Sample Info: JTPJE1AD,,0,,,

Purge Volume: 500.0

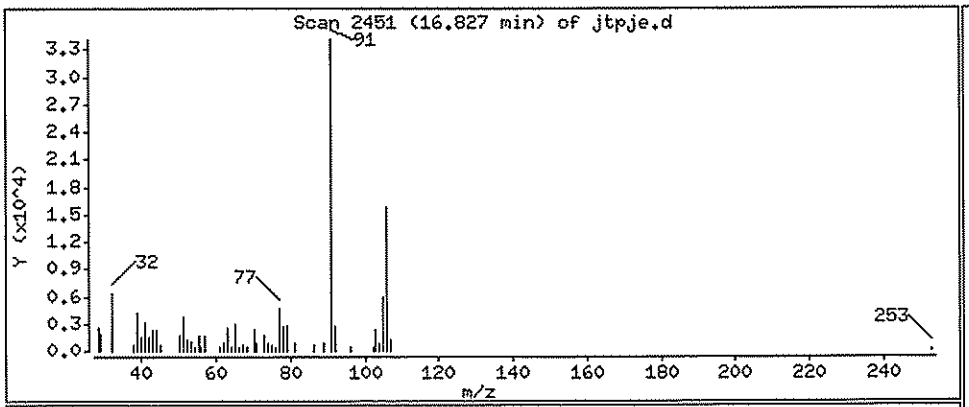
Operator: 7126

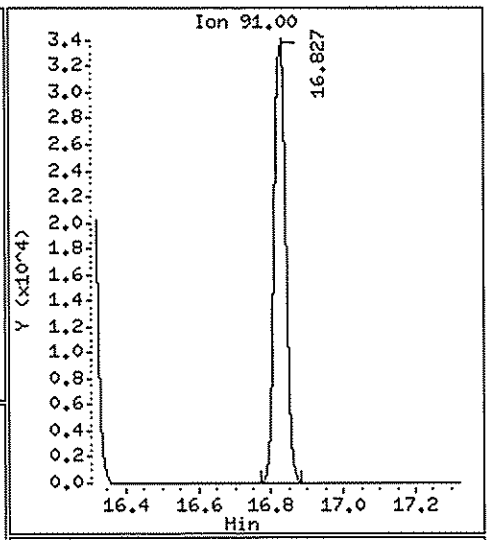
Column phase: Rtx-5

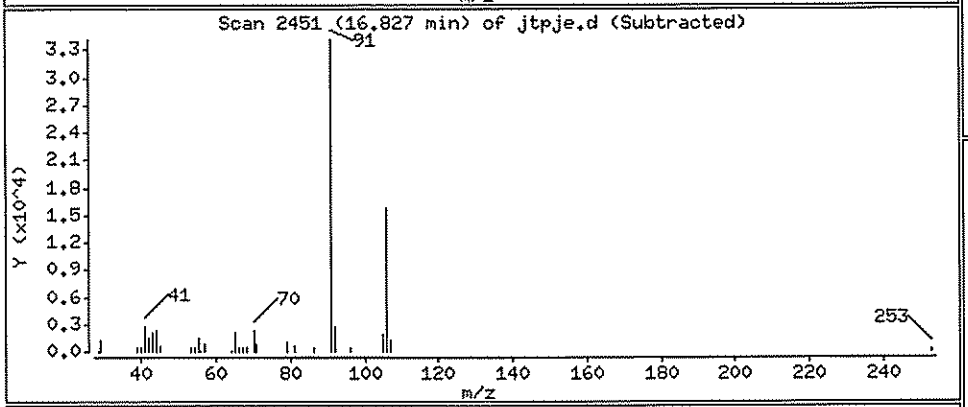
Column diameter: 0.32

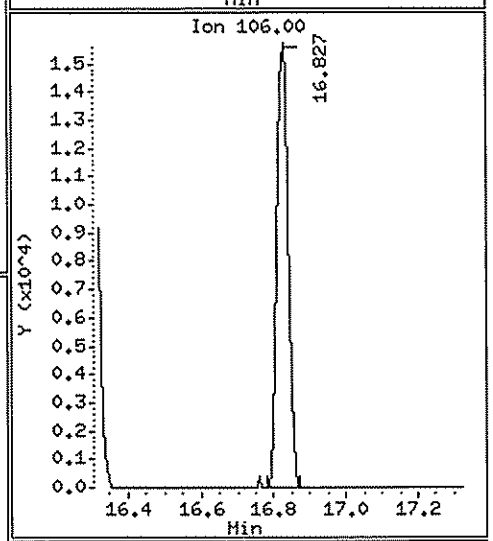
75 o-Xylene

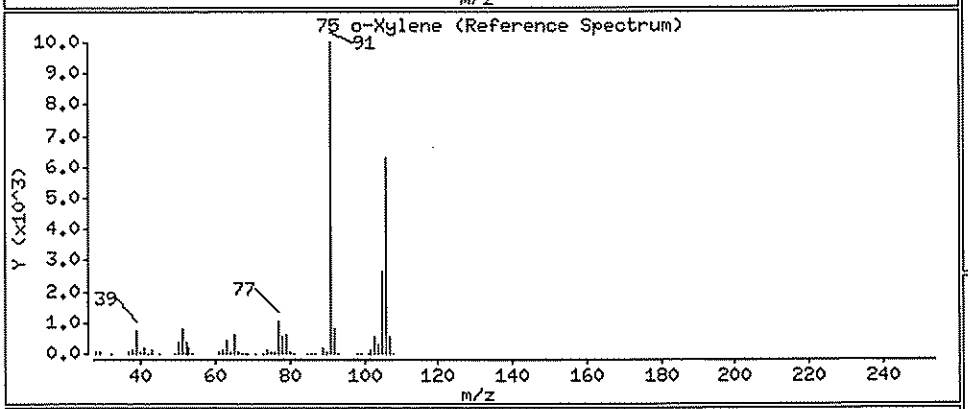
Concentration: 0.6393 ppb(v/v)

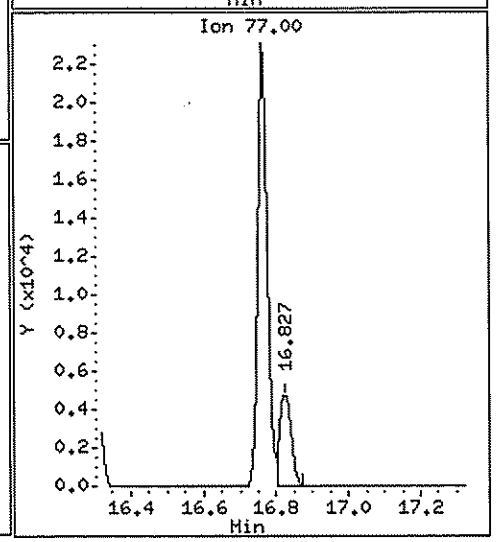


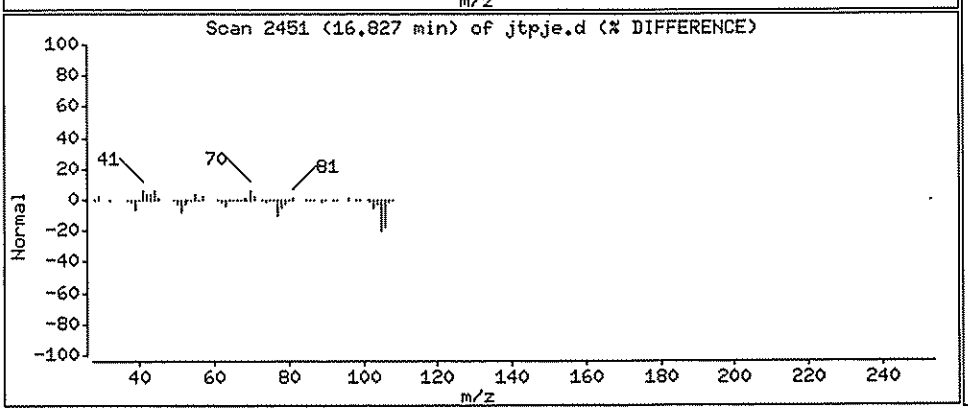












Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d

Date : 17-APR-2007 05:24

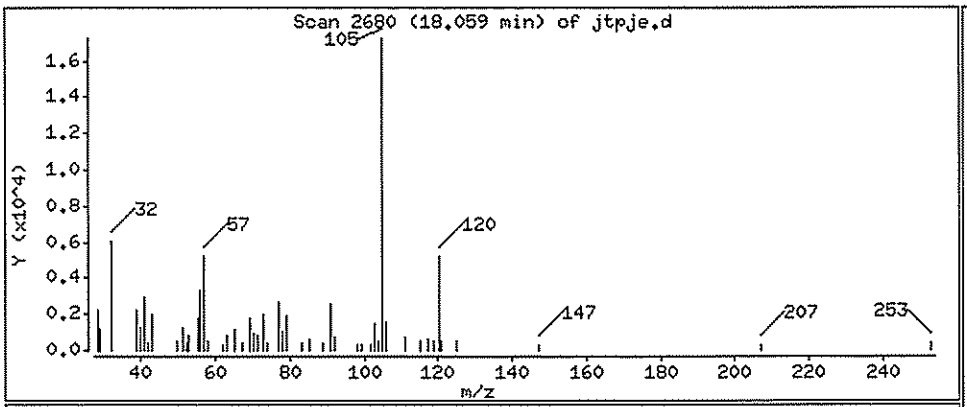
Client ID: SV-14(A,A) Instrument: mj.i

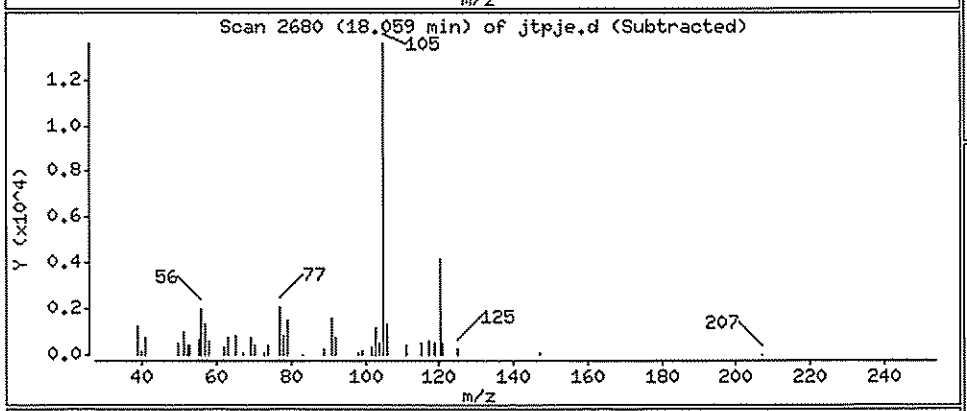
Sample Info: JTPJE1AD,,0,,,

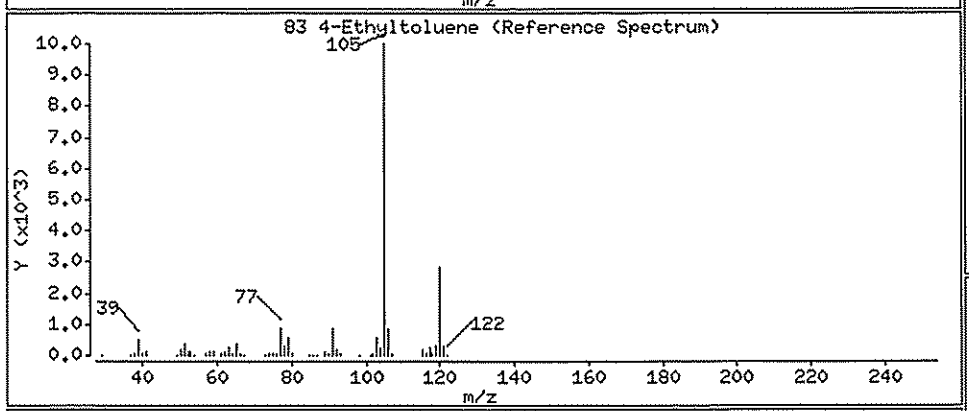
Purge Volume: 500.0 Operator: 7126

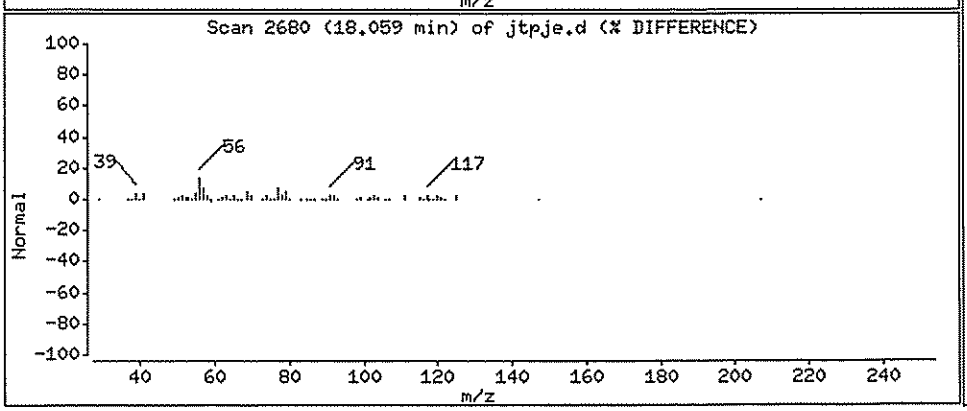
Column phase: Rtx-5 Column diameter: 0.32

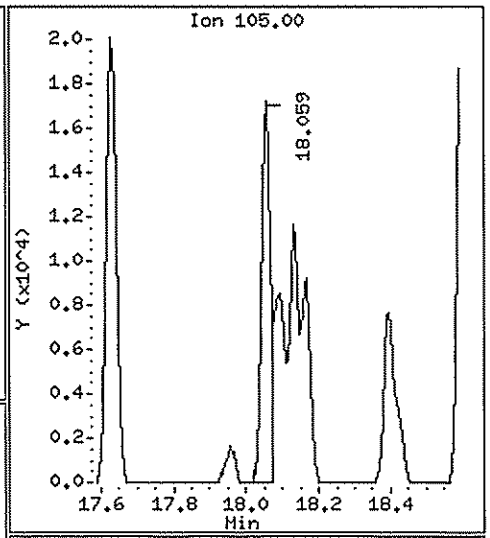
83 4-Ethyltoluene Concentration: 0.2150 ppb(v/v)

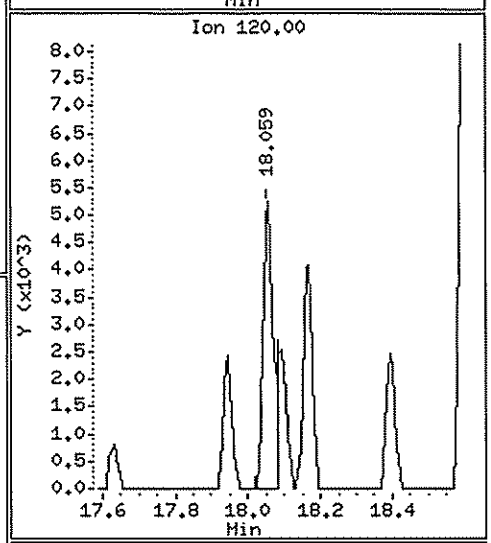


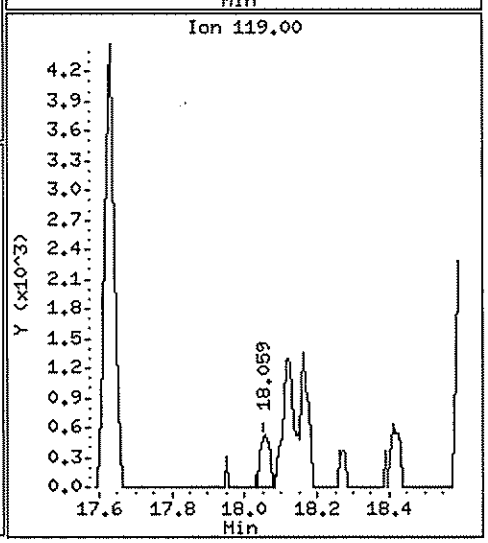












Data File: /var/chem/gcms/mj.i/J041607.b/jtpje.d

Date : 17-APR-2007 05:24

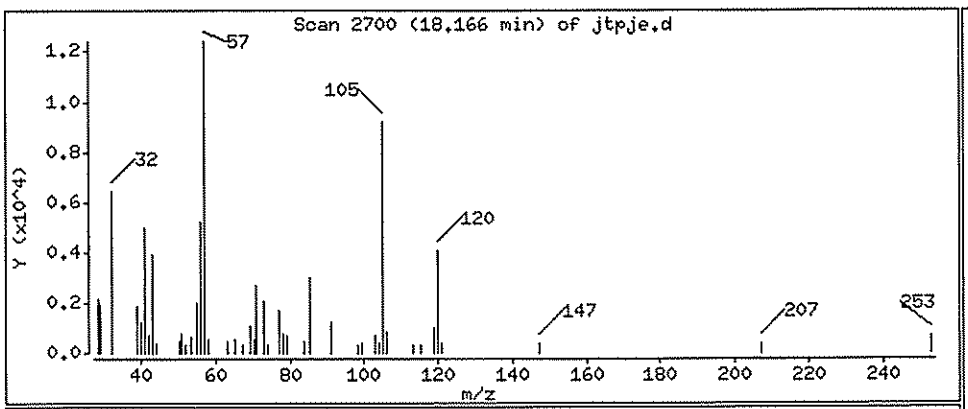
Client ID: SV-14(A.A) Instrument: mj.i

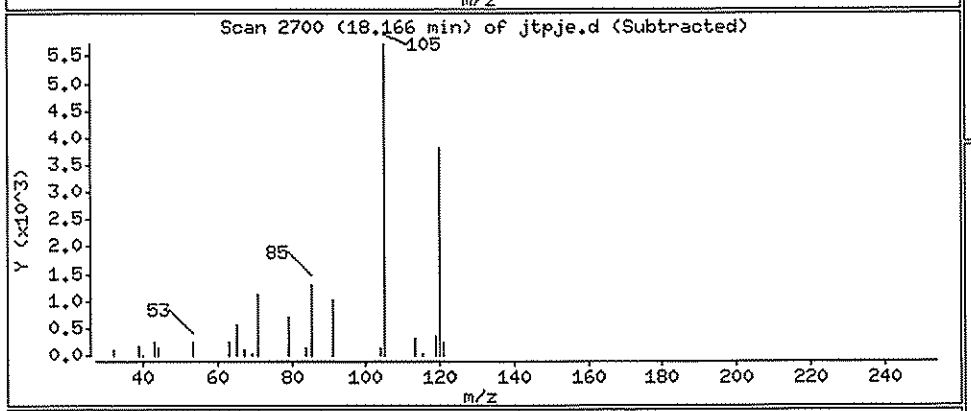
Sample Info: JTPJE1AD,,0,,,

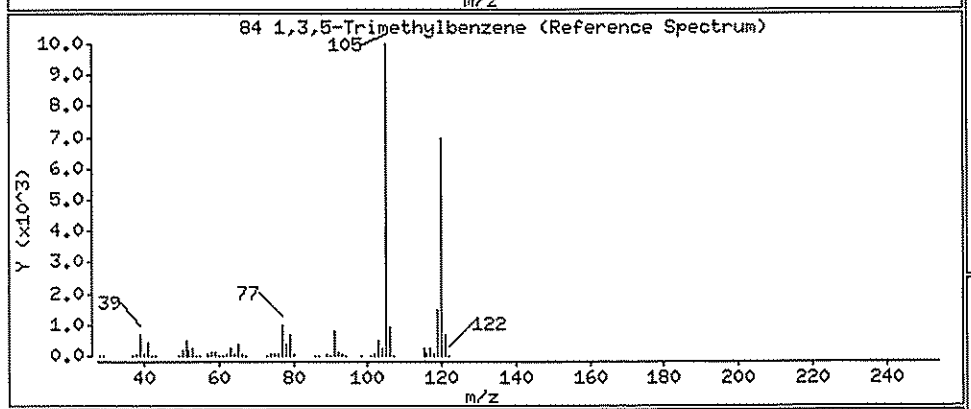
Purge Volume: 500.0 Operator: 7126

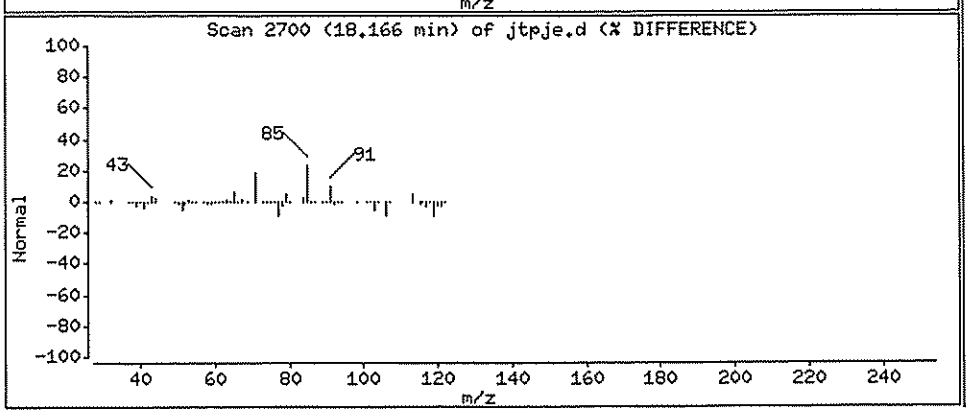
Column phase: Rtx-5 Column diameter: 0.32

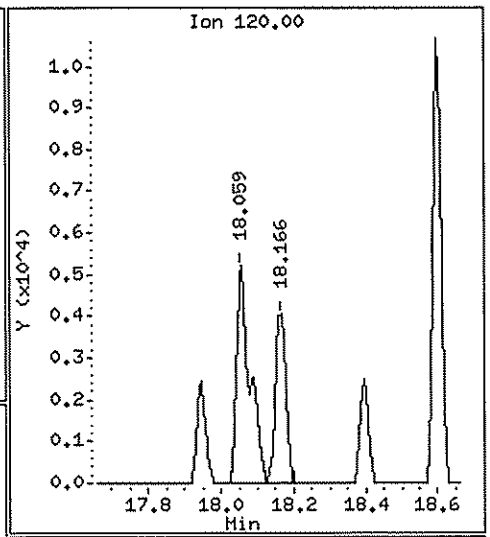
84 1,3,5-Trimethylbenzene Concentration: 0.1416 ppb(v/v)

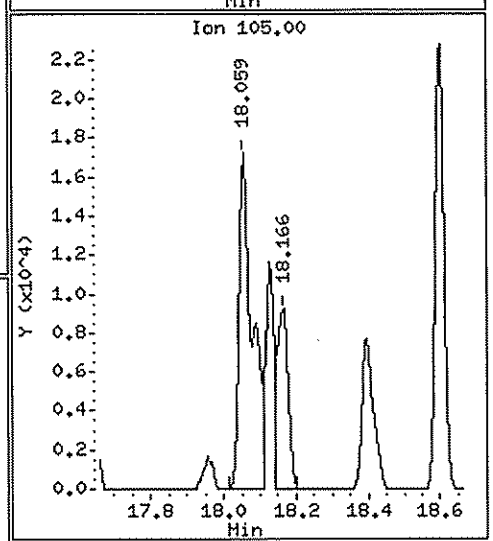


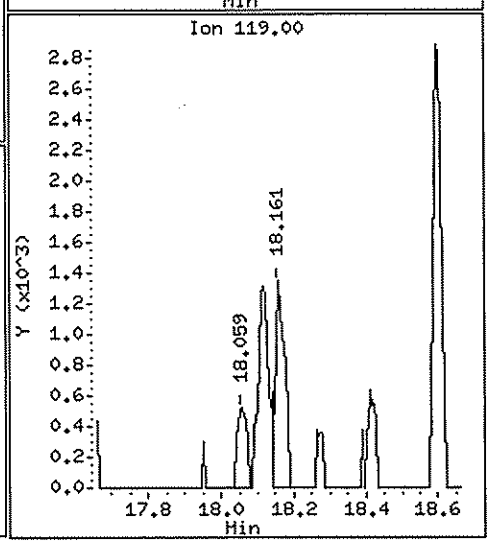












AKRF-White Plains

Client Sample ID: SV-15(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 011 **Work Order #** JTPJG1AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7107200
Dilution Factor.: 2 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.16	ND	0.73
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.16	ND	1.1
Ethylbenzene	ND	0.16	ND	0.69
Trichlorofluoromethane	**0.42**	**0.16**	**2.3**	**0.90**
n-Heptane	ND	0.40	ND	1.6
n-Hexane	**7.4**	**0.40**	**26**	**1.4**
2,2,4-Trimethylpentane	ND	0.40	ND	1.9
Benzene	**0.68**	**0.16**	**2.2**	**0.51**
1,1,2,2-Tetrachloroethane	ND	0.16	ND	1.1
Tetrachloroethene	ND	0.16	ND	1.1
Toluene	**4.9**	**0.16**	**19**	**0.60**
1,1,1-Trichloroethane	ND	0.16	ND	0.87
1,1,2-Trichloroethane	ND	0.16	ND	0.87
Trichloroethene	ND	0.080	ND	0.43
1,3,5-Trimethylbenzene	ND	0.16	ND	0.79
Vinyl chloride	ND	0.16	ND	0.41
o-Xylene	ND	0.16	ND	0.69
Methyl tert-butyl ether	**1.2**	**0.80**	**4.4**	**2.9**
m-Xylene & p-Xylene	ND	0.16	ND	0.69
Bromodichloromethane	ND	0.16	ND	1.1
1,2-Dibromoethane (EDB)	ND	0.16	ND	1.2
Vinyl bromide	ND	0.16	ND	0.70
Bromoform	ND	0.16	ND	1.7
Bromomethane	ND	0.16	ND	0.62
1,3-Butadiene	ND	0.32	ND	0.71
4-Ethyltoluene	ND	0.32	ND	1.6
Carbon tetrachloride	**0.084**	**0.080**	**0.53**	**0.50**
Dibromochloromethane	ND	0.16	ND	1.4
Chloroethane	ND	0.16	ND	0.42
Chloroform	ND	0.16	ND	0.78
3-Chloropropene	ND	0.16	ND	0.50
Cyclohexane	**16**	**0.40**	**56**	**1.4**
Dichlorodifluoromethane	**0.65**	**0.16**	**3.2**	**0.79**
1,1-Dichloroethane	ND	0.16	ND	0.65
1,2-Dichloroethane	ND	0.16	ND	0.65
1,1-Dichloroethene	ND	0.16	ND	0.63
cis-1,2-Dichloroethene	ND	0.16	ND	0.63
trans-1,2-Dichloroethene	ND	0.16	ND	0.63
1,2-Dichloropropane	ND	0.16	ND	0.74

TO-14 _rev5.rpt version 5.0.103 10/12/2006

AKRF-White Plains

Client Sample ID: SV-15(S.S)

GC/MS Volatiles

Lot-Sample # H7D110232 - 011 **Work Order #** JTPJG1AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.16	ND	0.73

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	108	70 - 130
Toluene-d8	95	70 - 130
4-Bromofluorobenzene	96	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TO-14 _rev5.rpt version 5.0.103 10/12/2006

Data File: /var/chem/gcms/mj.i/J041607.b/jtpjg.d
Report Date: 19-Apr-2007 18:59

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041607.b/jtpjg.d
Lab Smp Id: JTPJG1AD Client Smp ID: SV-15(S.S)
Inj Date : 17-APR-2007 06:03
Operator : 7126 Inst ID: mj.i
Smp Info : JTPJG1AD,2,0,,,
Misc Info : J041607,TO15,magna.sub,,,250 ML
Comment :
Method : /var/chem/gcms/mj.i/J041607.b/TO15.m
Meth Date : 19-Apr-2007 17:51 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 20
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: magna.sub
Target Version: 3.50

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

Name	Value	Description
DF	2.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

04/2007

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.902	8.899	(1.000)	119961	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.086	11.083	(1.000)	443863	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.809	15.806	(1.000)	412311	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.913	9.905	(0.894)	122554	4.33912	4.339
$ 5 Toluene-d8	98	13.727	13.724	(0.868)	381260	3.79983	3.800
$ 6 4-Bromofluorobenzene	95	17.445	17.441	(1.103)	317782	3.81957	3.820
8 Dichlorodifluoromethane	85	3.775	3.778	(0.424)	47015	0.32678	0.6536
15 1,3-Butadiene	54	4.222	4.219	(0.474)	5937	0.24314	~~0.4863~~
20 Trichlorofluoromethane	101	5.265	5.262	(0.591)	29949	0.20912	0.4182
32 3-Chloropropene	39	6.250	6.344	(0.702)	3782	0.08841	~~0.1768~~
36 Methyl-t-Butyl Ether	73	7.347	7.312	(0.825)	49982	0.60776	1.216
39 Hexane	56	8.138	8.130	(0.914)	113630	3.68925	7.378
47 Cyclohexane	69	10.532	10.523	(0.950)	155167	8.11080	16.22
49 Benzene	78	10.543	10.534	(0.951)	36542	0.34170	0.6834
50 Carbon Tetrachloride	117	10.559	10.556	(1.186)	4560	0.04215	0.08429
51 2,2,4-trimethylpentane	57	11.086	11.277	(1.000)	39148	0.22192	~~0.4438~~

CM 4-19-07

Data File: /var/chem/gcms/mj.i/J041607.b/jtpjg.d
Report Date: 19-Apr-2007 18:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
62 Toluene	91	13.840	13.837	(0.875)	264148	2.46079	4.922

Data File: /var/chem/gcms/mj.i/J041607.b/jtpjg.d
Report Date: 19-Apr-2007 18:59

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jtpjg.d
Lab Smp Id: JTPJG1AD
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,magna.sub,,,250 ML

Calibration Date: 16-APR-2007
Calibration Time: 12:57
Client Smp ID: SV-15(S.S)
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	185541	110397	260685	119961	-35.35
2 1,4-Difluorobenze	738195	439226	1037164	443863	-39.87
3 Chlorobenzene-d5	652787	388408	917166	412311	-36.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.90	8.57	9.23	8.90	0.04
2 1,4-Difluorobenze	11.08	10.75	11.41	11.09	0.03
3 Chlorobenzene-d5	15.81	15.48	16.14	15.81	0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J041607.b/jtpjg.d
Report Date: 19-Apr-2007 18:59

STL Knoxville

RECOVERY REPORT

Client Name: AKRF-White Plains
Sample Matrix: GAS
Lab Smp Id: JTPJG1AD
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: magna.sub
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,magna.sub,,,250 ML

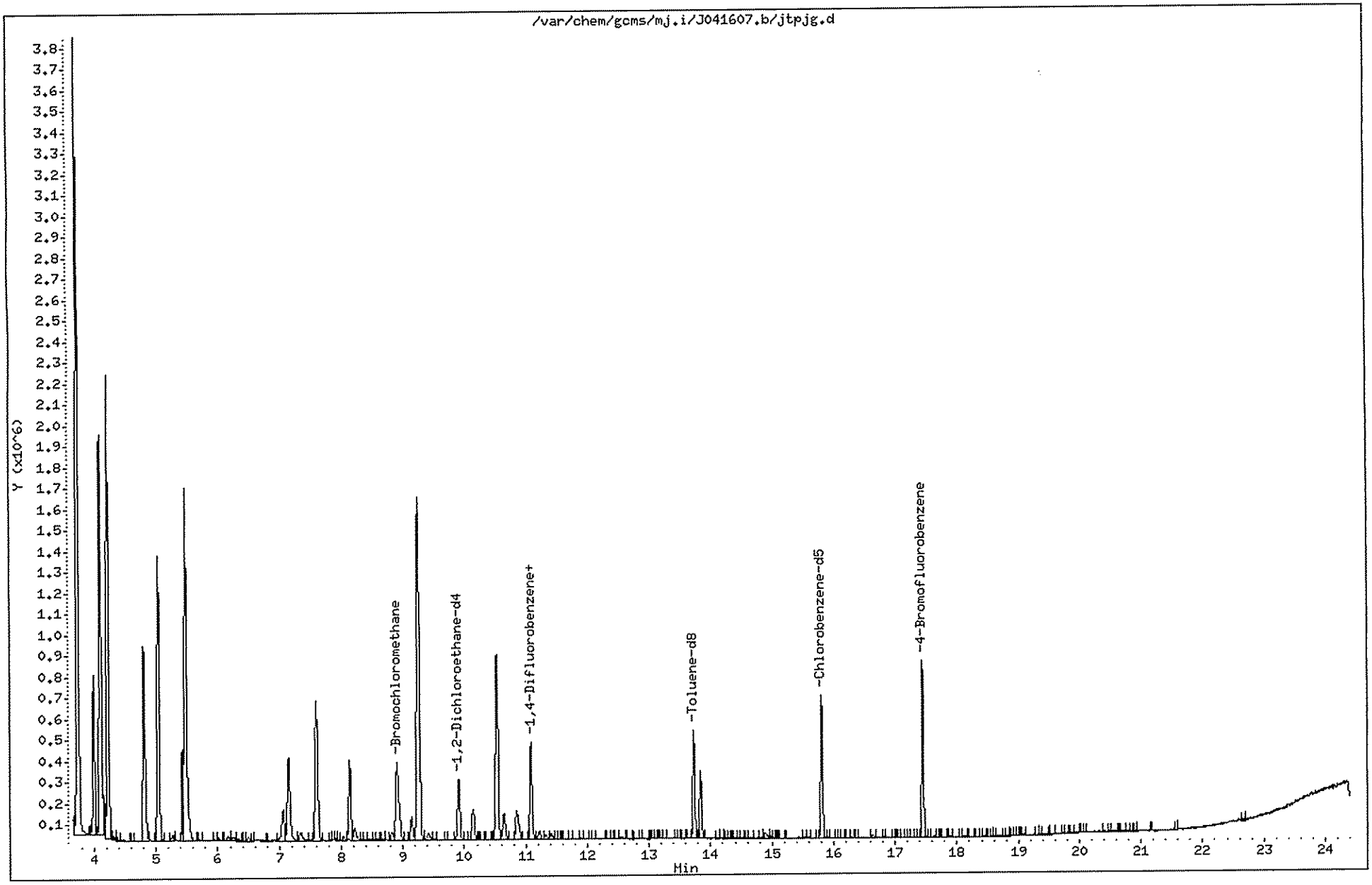
Client SDG: H7D110232
Fraction: OTHER
Client Smp ID: SV-15(S.S)
Operator: 7126
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	4.000	4.339	108.48	70-130
$ 5 Toluene-d8	4.000	3.800	95.00	70-130
$ 6 4-Bromofluorobenze	4.000	3.820	95.49	70-130

Data File: /var/chem/gcms/mj.i/J041607.b/jtpjg.d
Date : 17-APR-2007 06:03
Client ID: SV-15(S.S)
Sample Info: JTPJG1AD,2,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J041607.b/jtpjg.d

Date : 17-APR-2007 06:03

Client ID: SV-15(S,S)

Instrument: mj.i

Sample Info: JTPJG1AD,2,0,,,

Purge Volume: 500.0

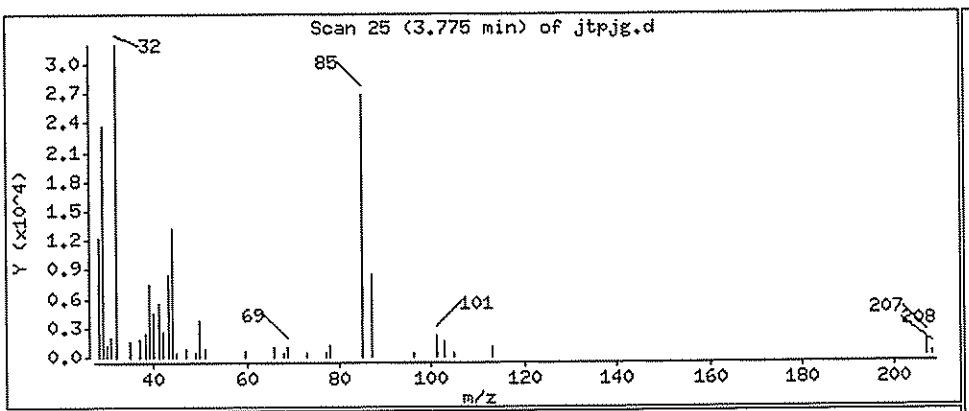
Operator: 7126

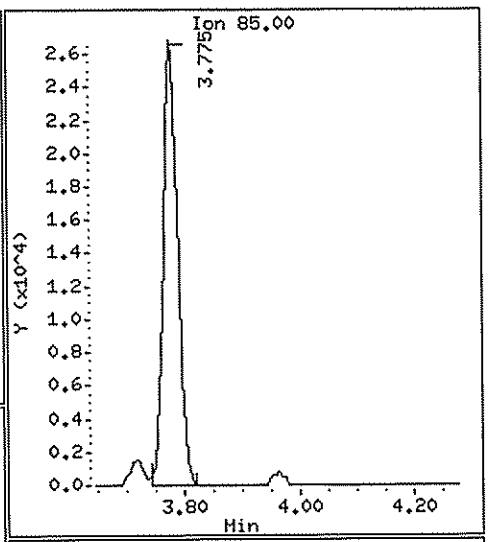
Column phase: Rtx-5

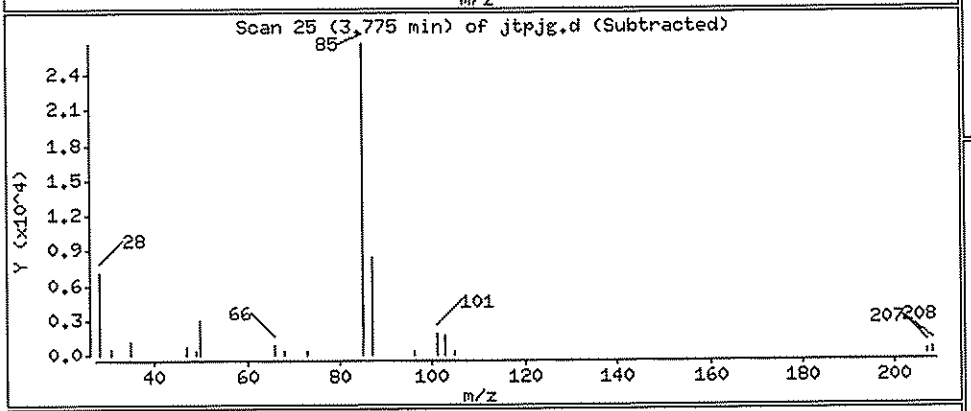
Column diameter: 0.32

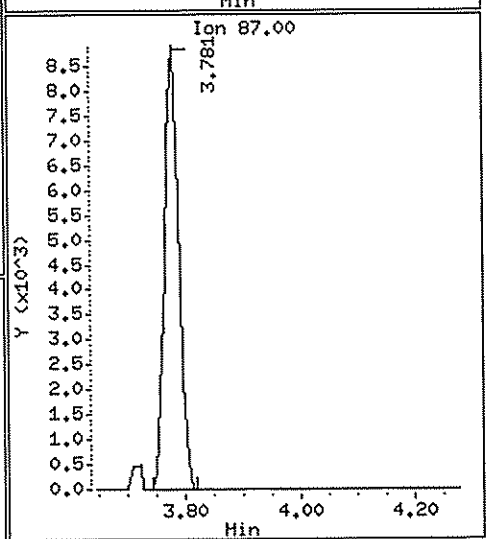
8 Dichlorodifluoromethane

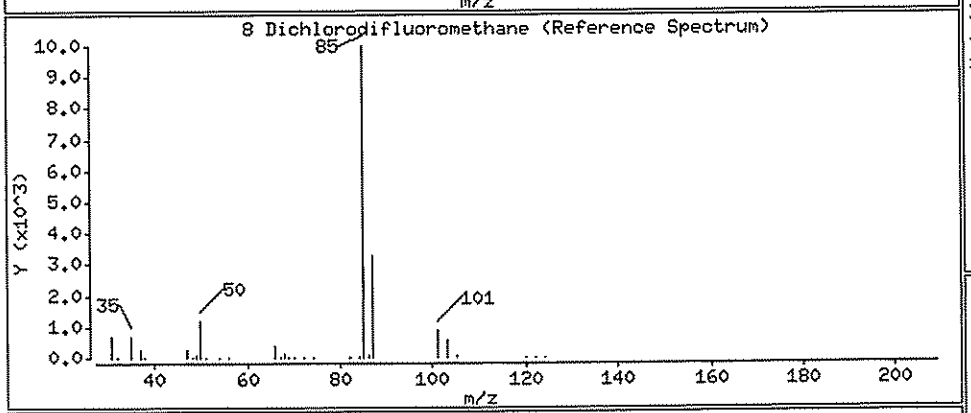
Concentration: 0.6536 ppb(v/v)

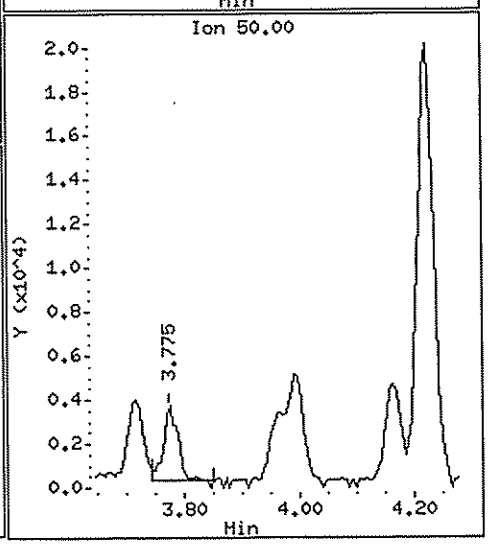


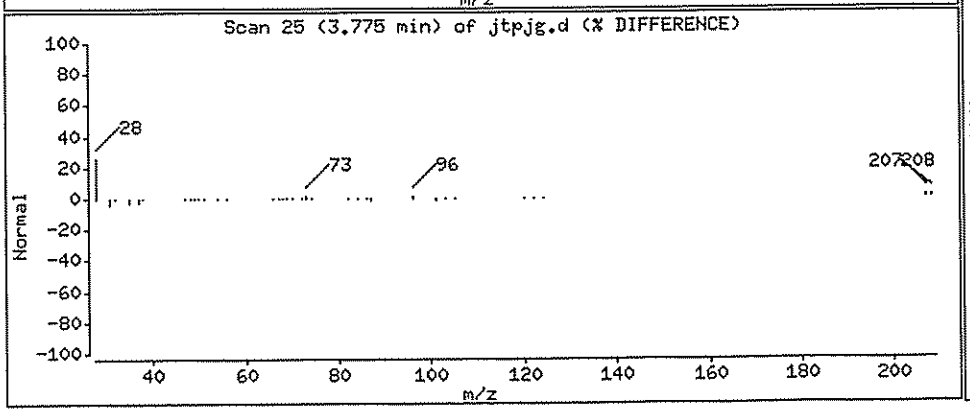












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjg.d

Date : 17-APR-2007 06:03

Client ID: SV-15(S.S)

Instrument: mj.i

Sample Info: JTPJG1AD,2,0,,,

Purge Volume: 500.0

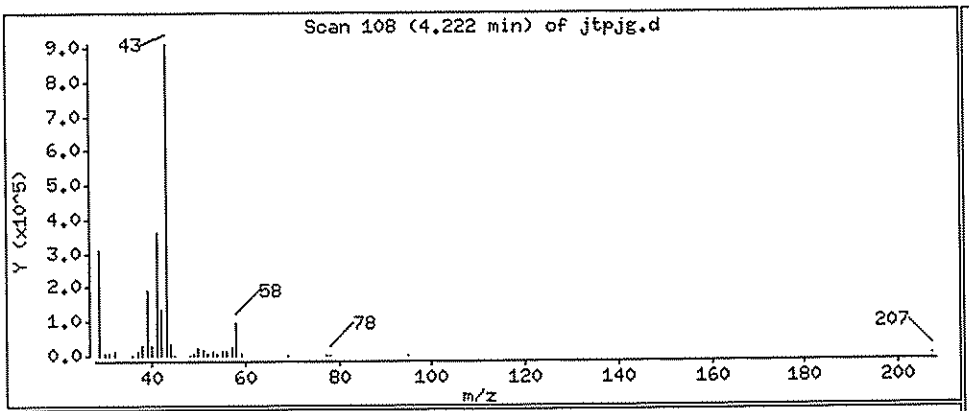
Operator: 7126

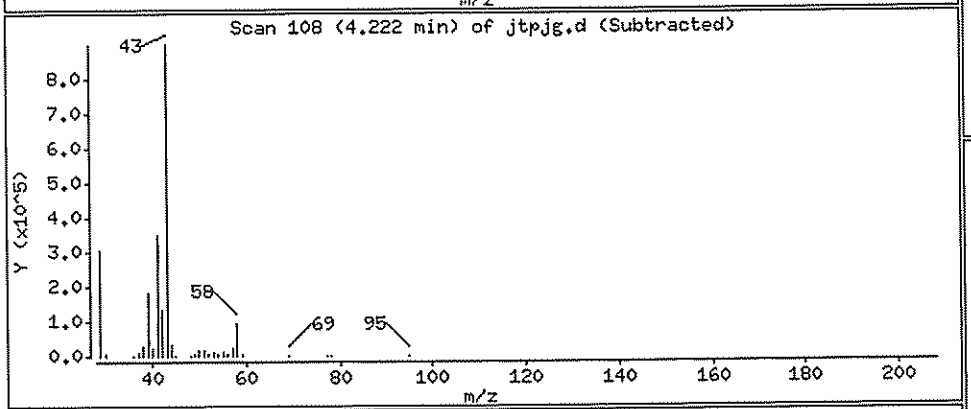
Column phase: Rtx-5

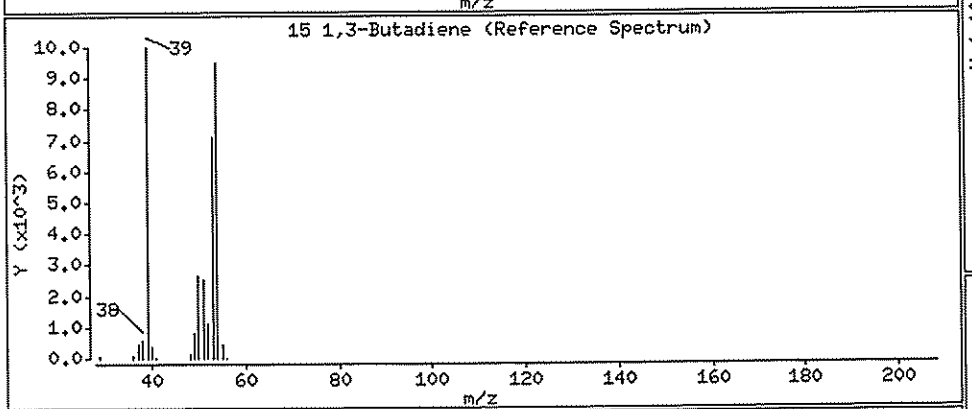
Column diameter: 0.32

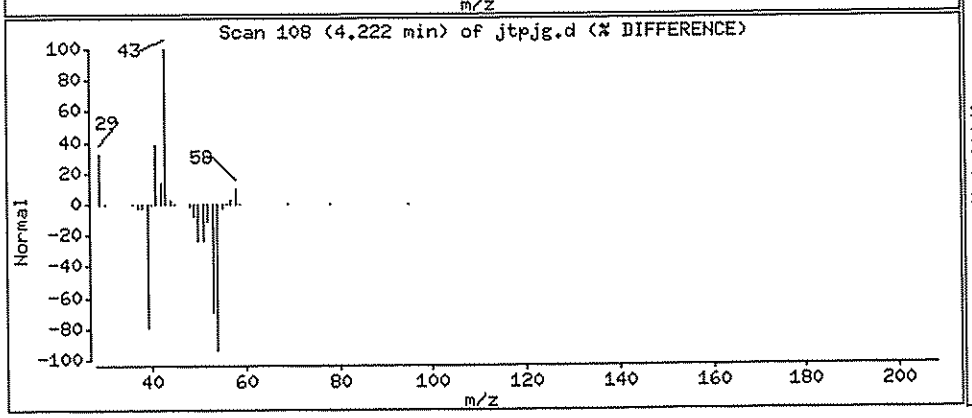
15 1,3-Butadiene

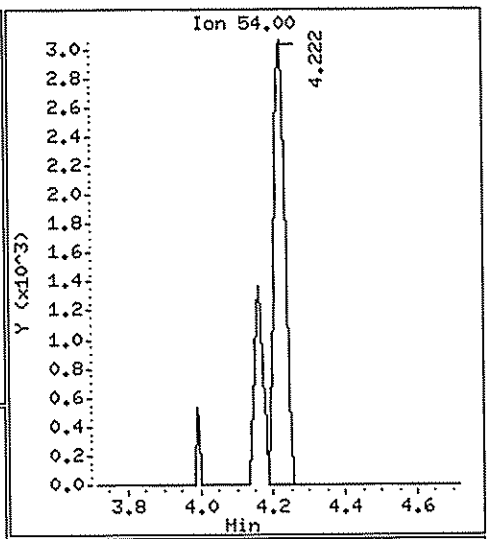
Concentration: 0.4863 ppb(v/v)

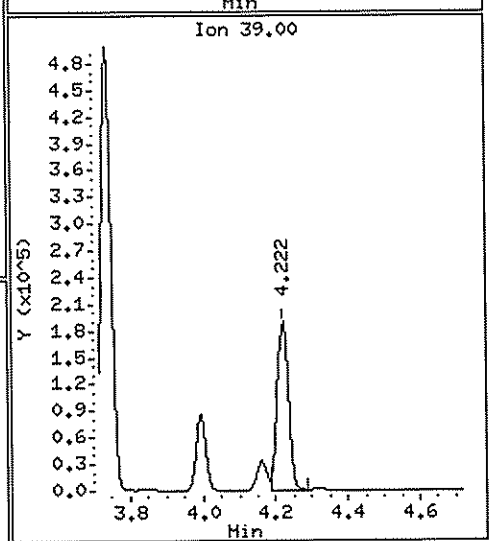


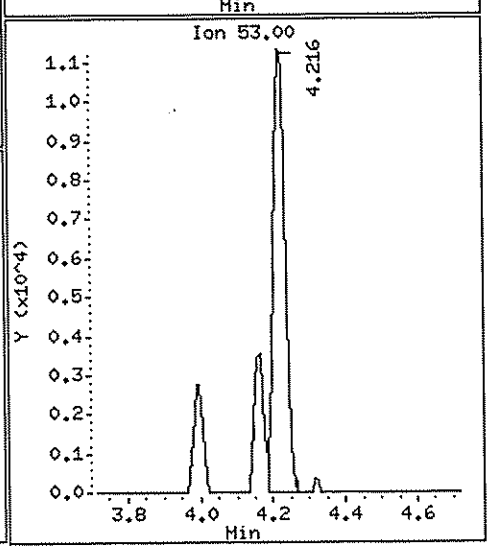












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjg.d

Date : 17-APR-2007 06:03

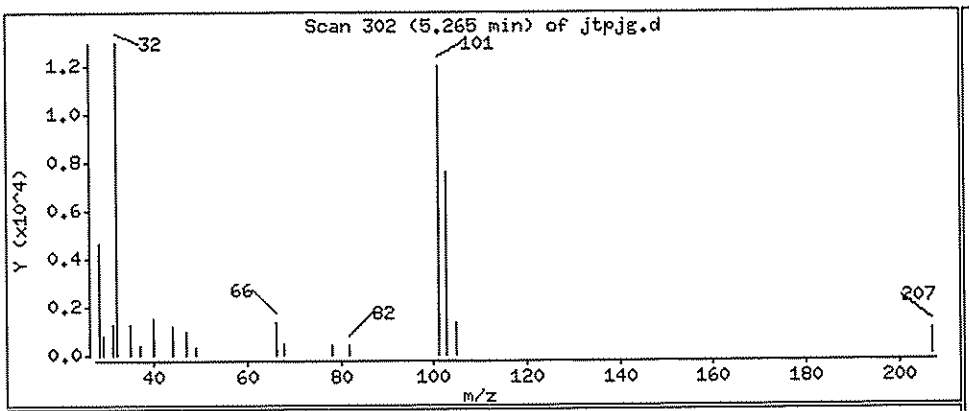
Client ID: SV-15(S.S) Instrument: mj.i

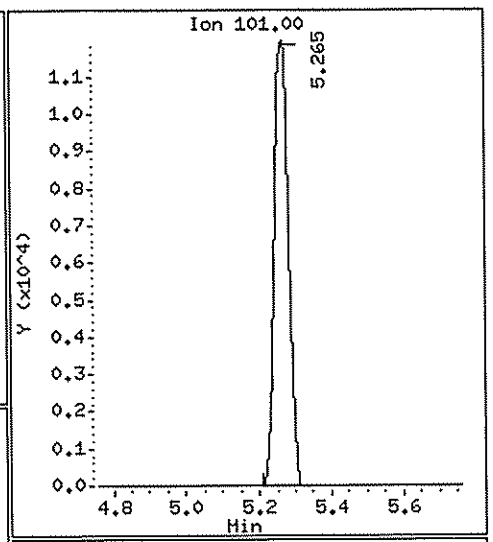
Sample Info: JTPJG1AD,2,0,,,

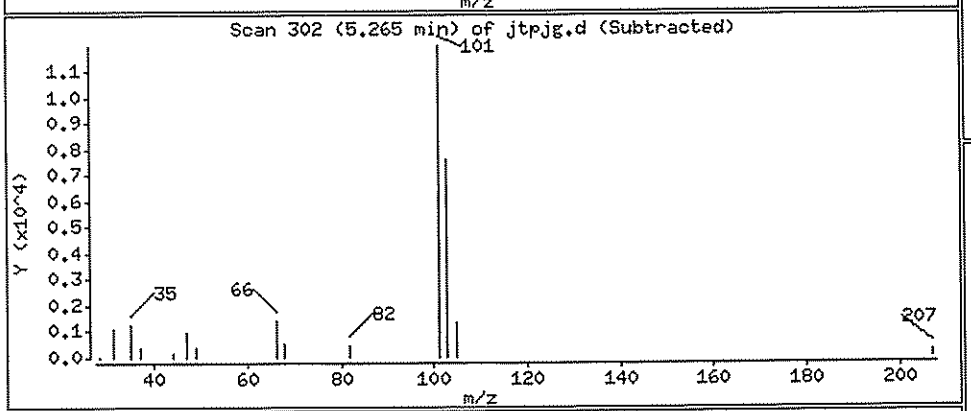
Purge Volume: 500.0 Operator: 7126

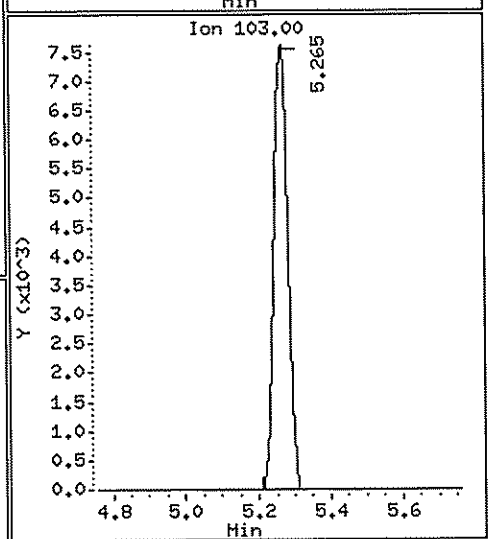
Column phase: Rtx-5 Column diameter: 0.32

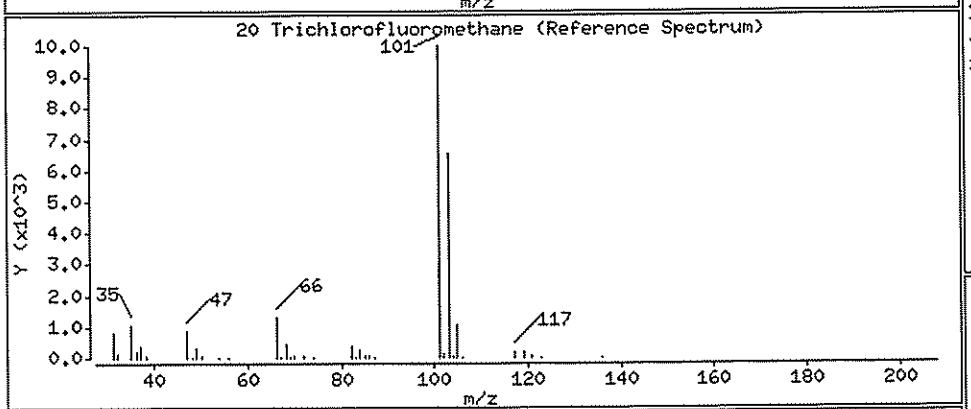
20 Trichlorofluoromethane Concentration: 0.4182 ppb(v/v)

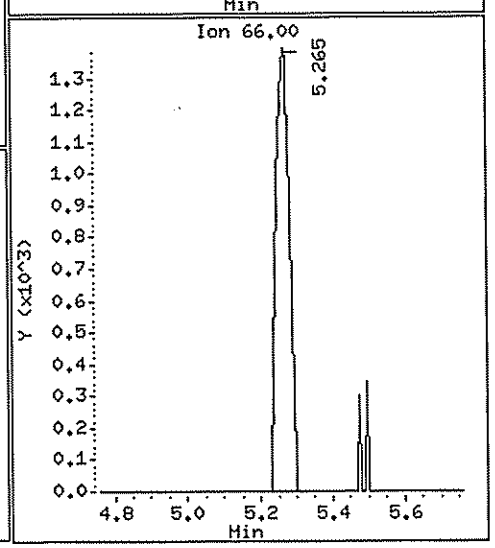


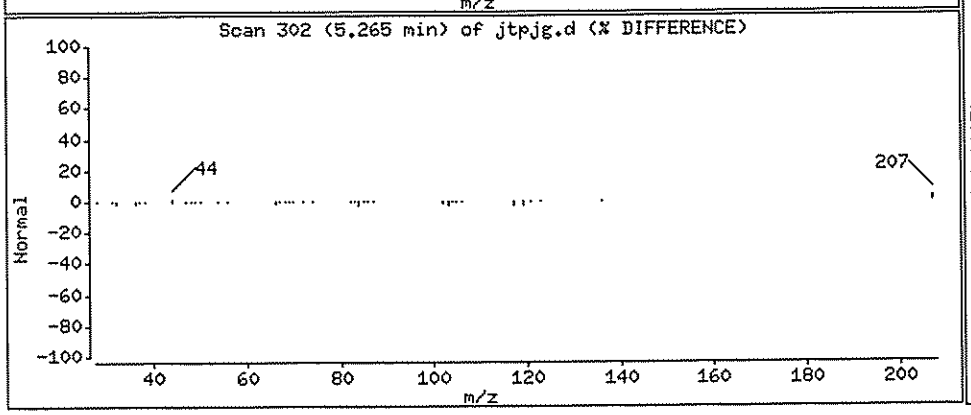












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjg.d

Date : 17-APR-2007 06:03

Client ID: SV-15(S,S)

Instrument: mj.i

Sample Info: JTPJG1AD,2,0,,,

Purge Volume: 500.0

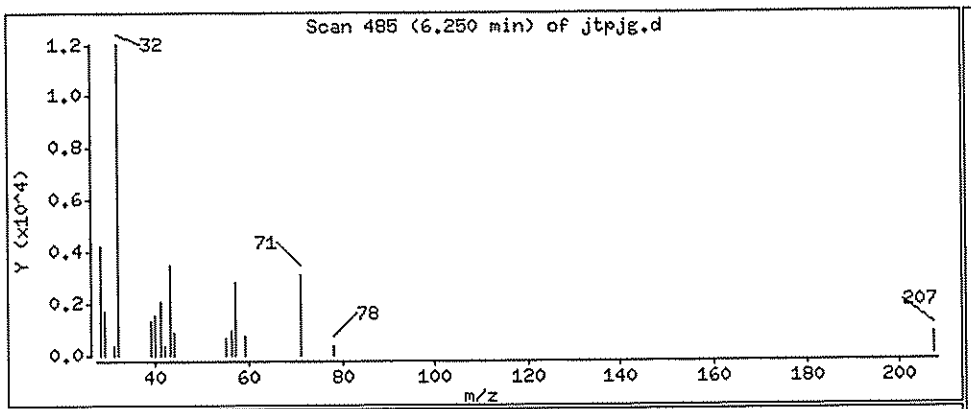
Operator: 7126

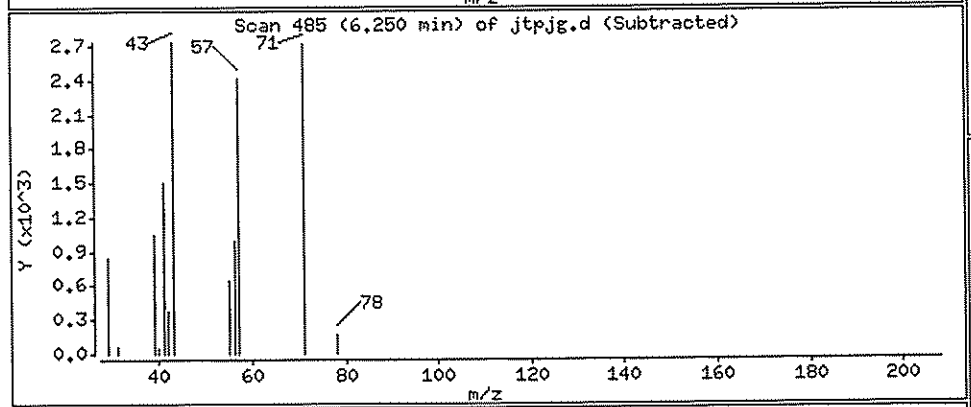
Column phase: Rtx-5

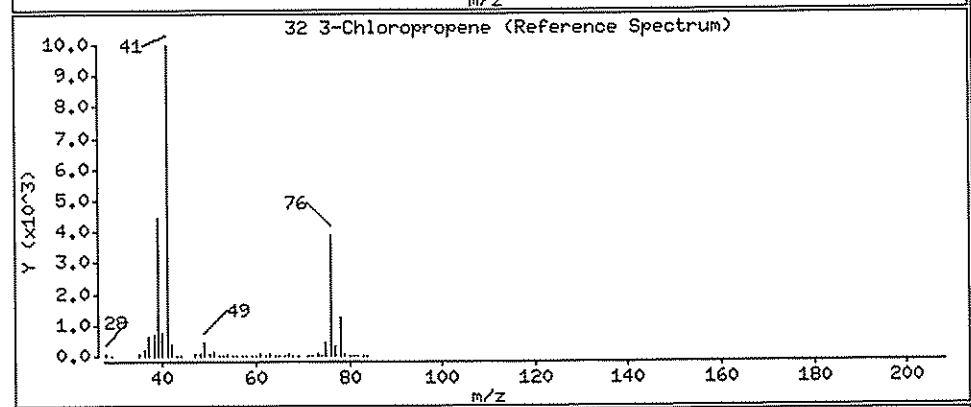
Column diameter: 0.32

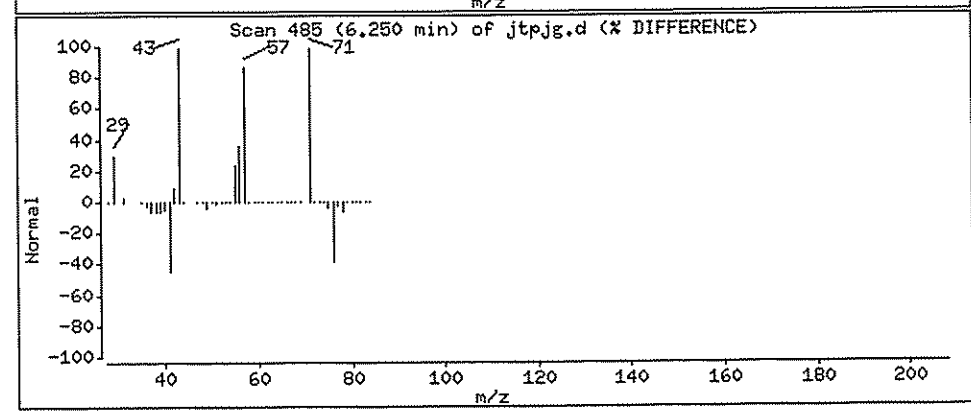
32 3-Chloropropene

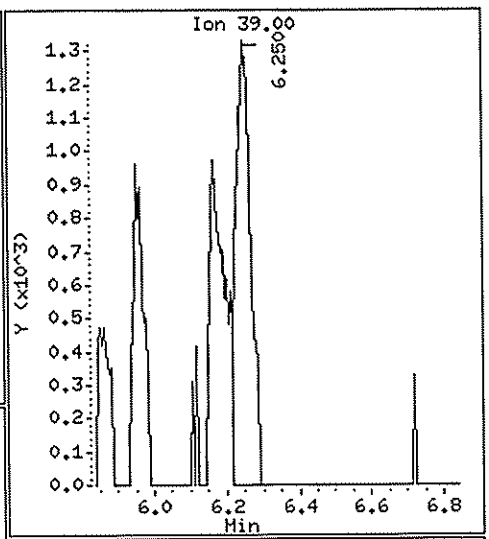
Concentration: 0.1768 ppb(v/v)

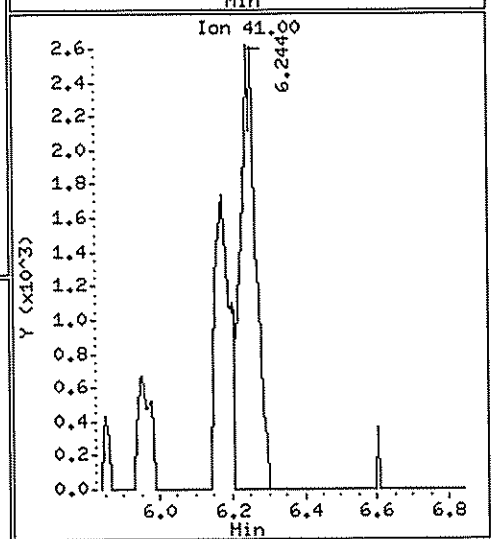


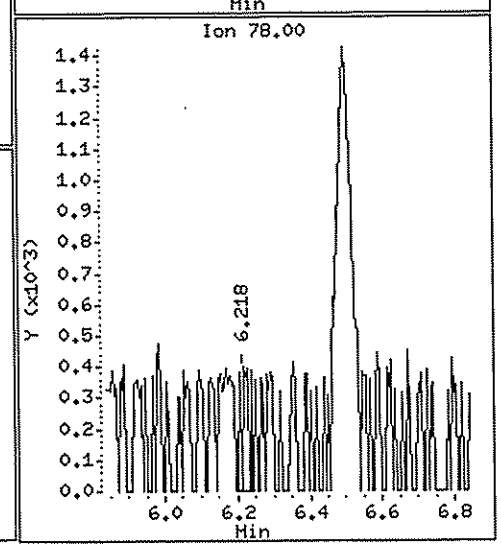












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjg.d

Date : 17-APR-2007 06:03

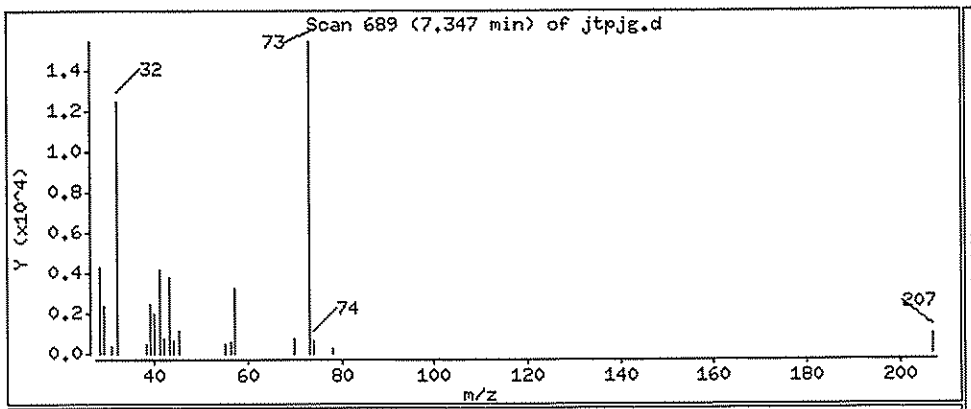
Client ID: SV-15(S,S) Instrument: mj.i

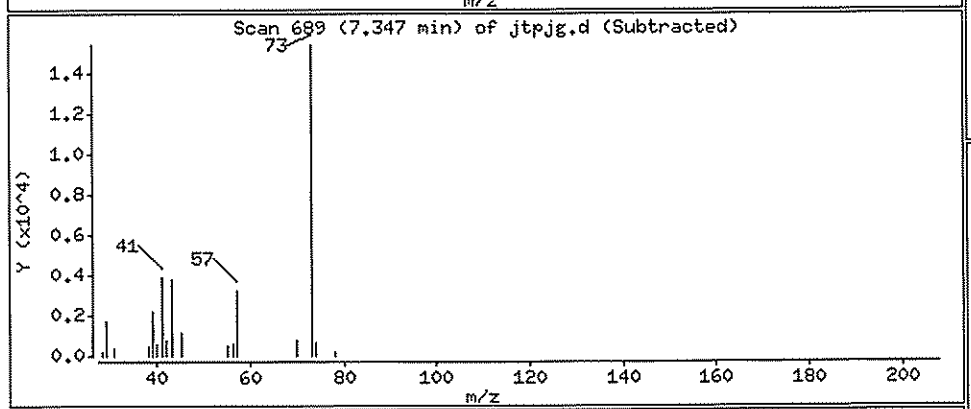
Sample Info: JTPJG1AD,2,0,,,

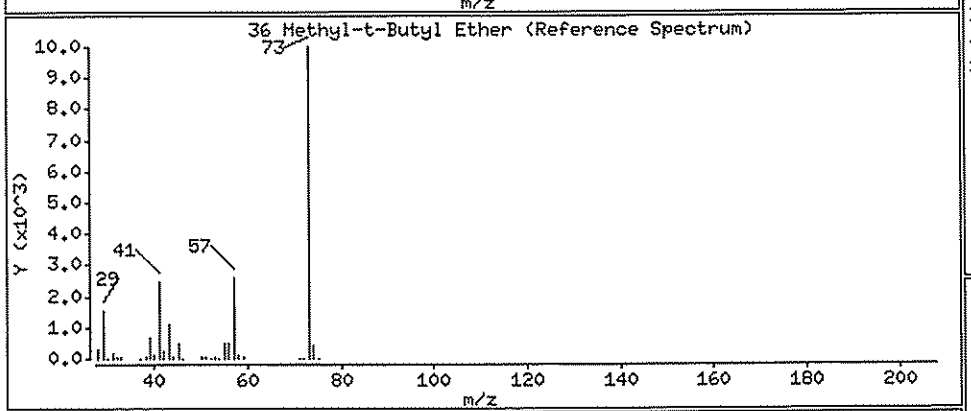
Purge Volume: 500.0 Operator: 7126

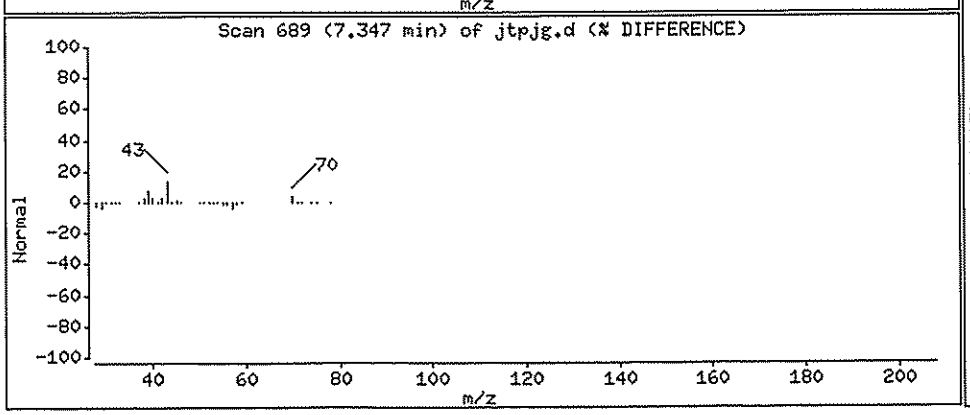
Column phase: Rtx-5 Column diameter: 0.32

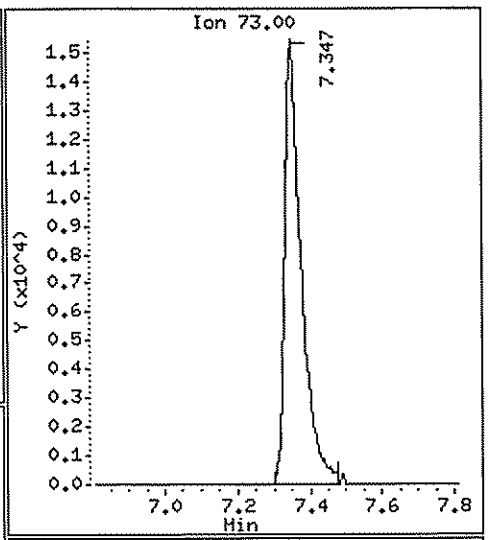
36 Methyl-t-Butyl Ether Concentration: 1.216 ppb(v/v)

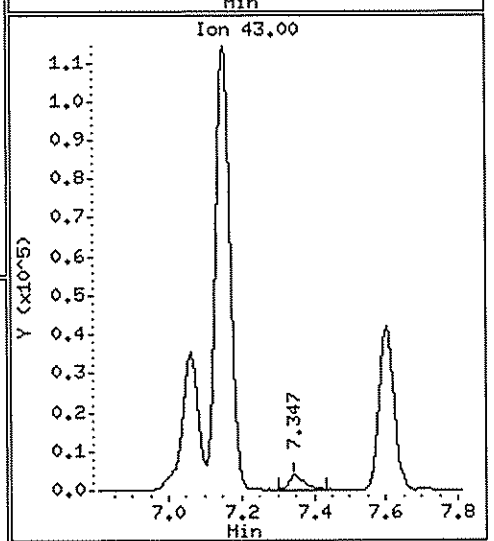


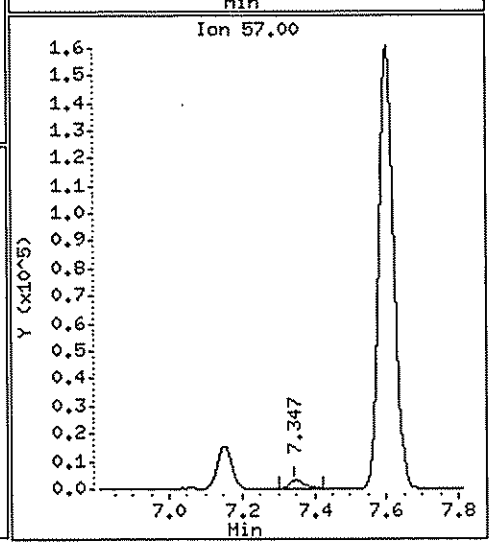












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjg.d

Date : 17-APR-2007 06:03

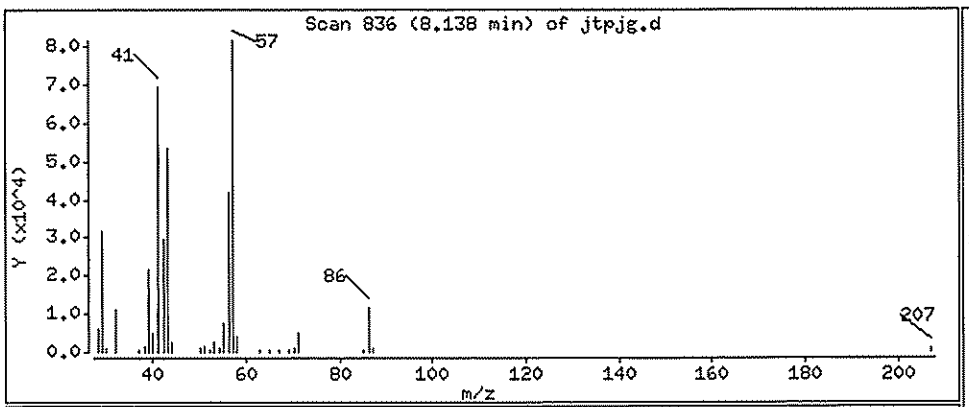
Client ID: SV-15(S.S) Instrument: mj.i

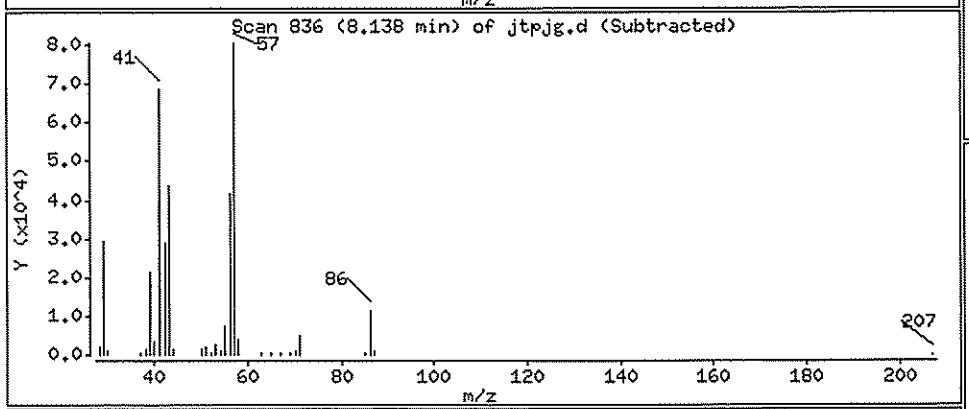
Sample Info: JTPJG1AD,2,0,,,

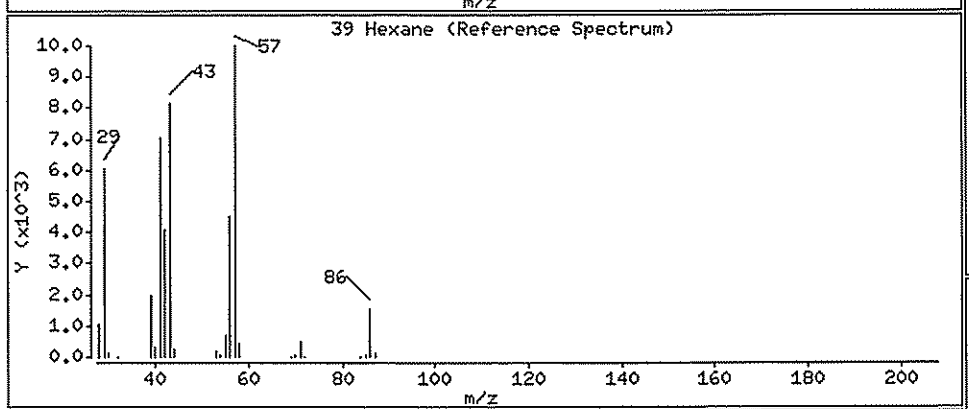
Purge Volume: 500.0 Operator: 7126

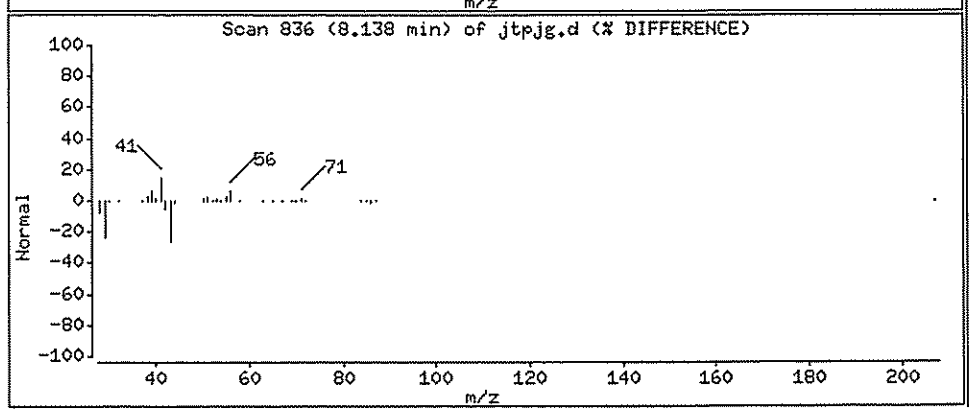
Column phase: Rtx-5 Column diameter: 0.32

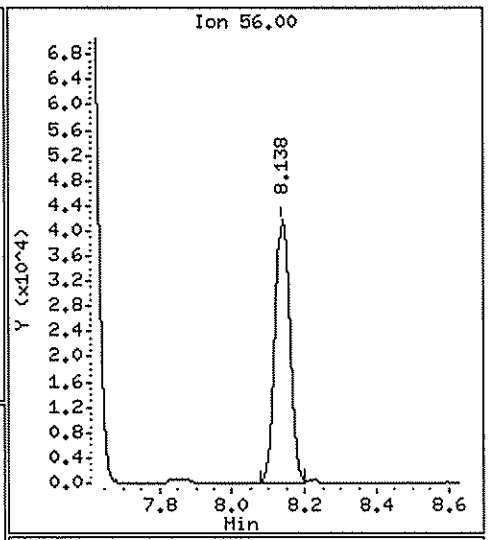
39 Hexane Concentration: 7.378 ppb(v/v)

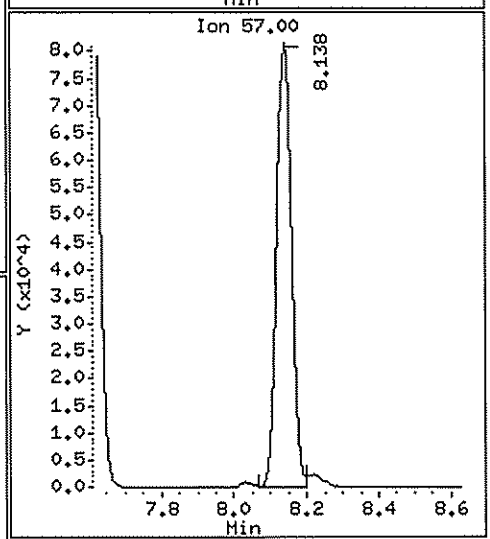


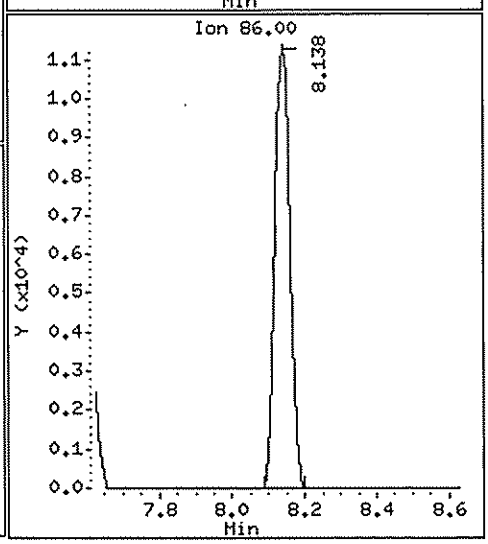












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjg.d

Date : 17-APR-2007 06:03

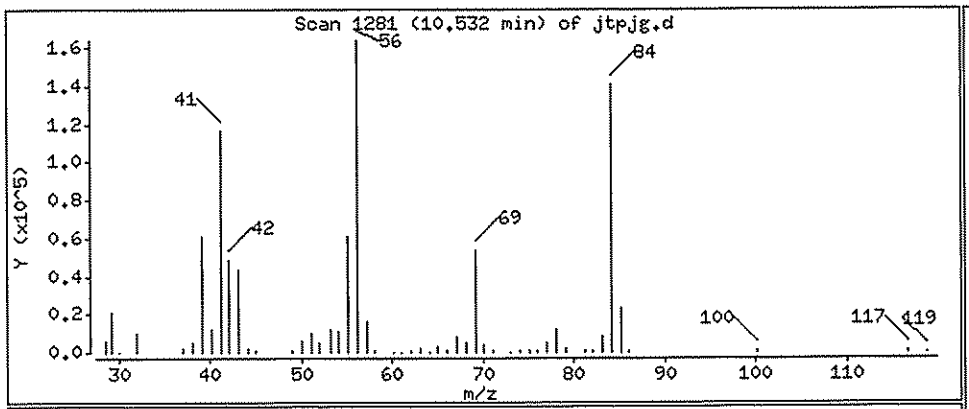
Client ID: SV-15(S.S) Instrument: mj.i

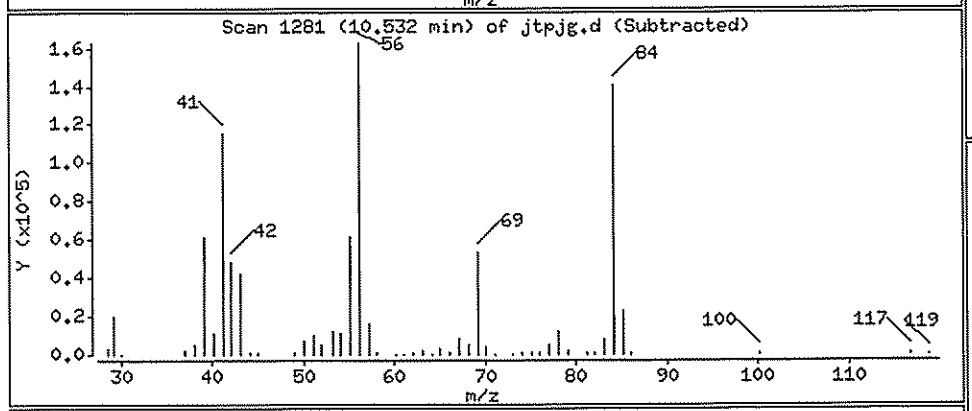
Sample Info: JTPJG1AD,2,0,,,

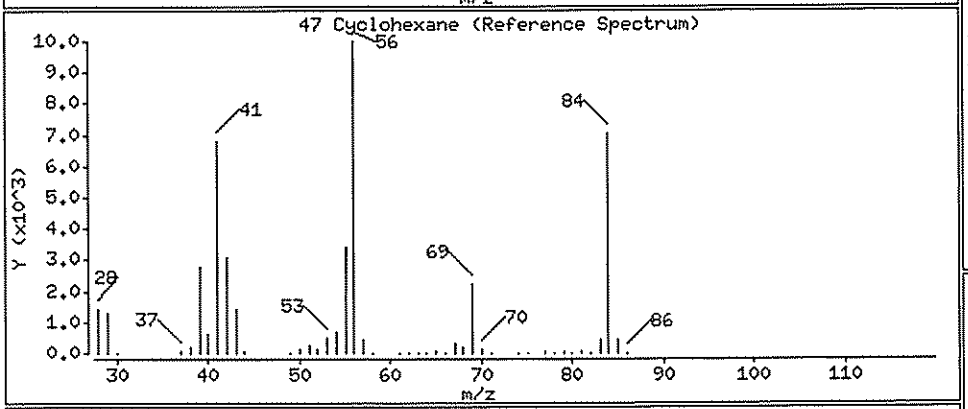
Purge Volume: 500.0 Operator: 7126

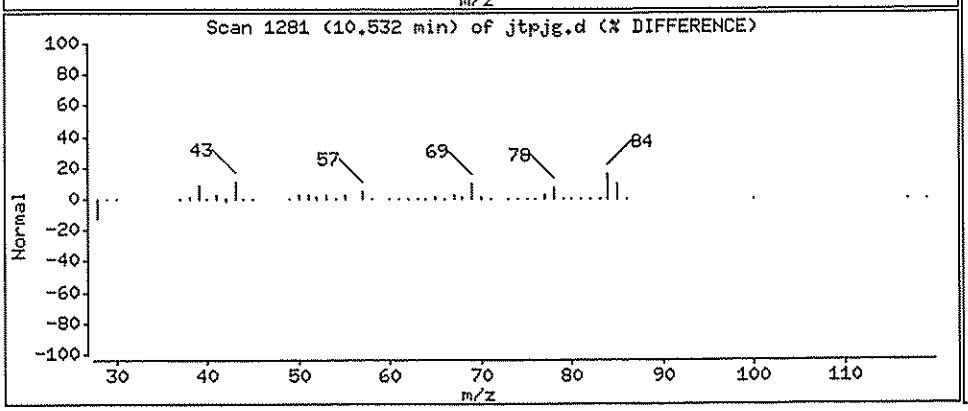
Column phase: Rtx-5 Column diameter: 0.32

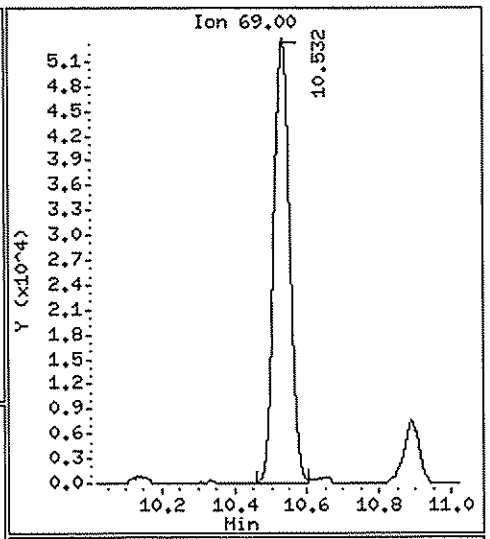
47 Cyclohexane Concentration: 16.22 ppb(v/v)

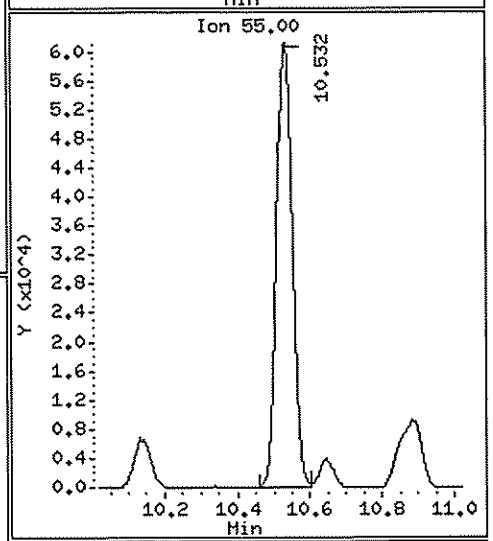


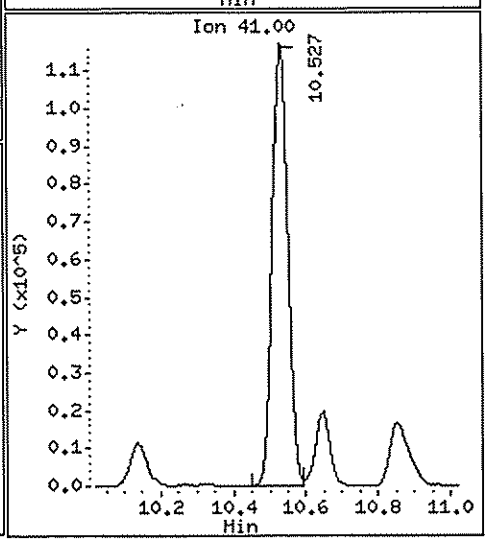












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjg.d

Date : 17-APR-2007 06:03

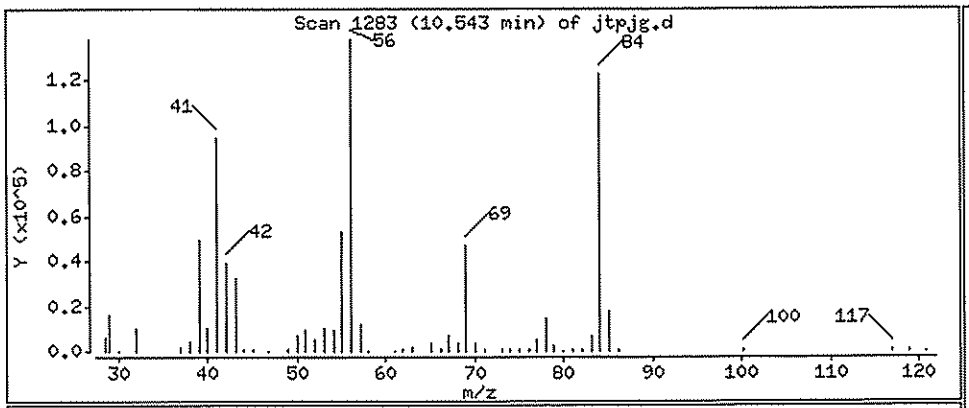
Client ID: SV-15(S.S) Instrument: mj.i

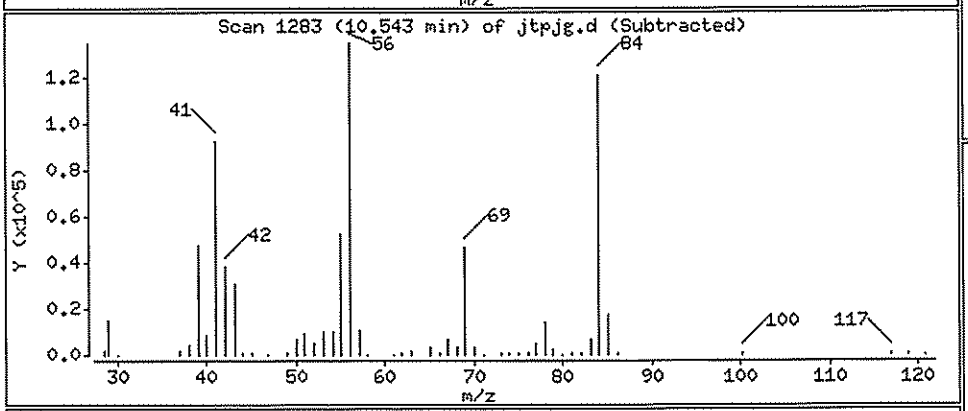
Sample Info: JTPJG1AD,2,0,,,

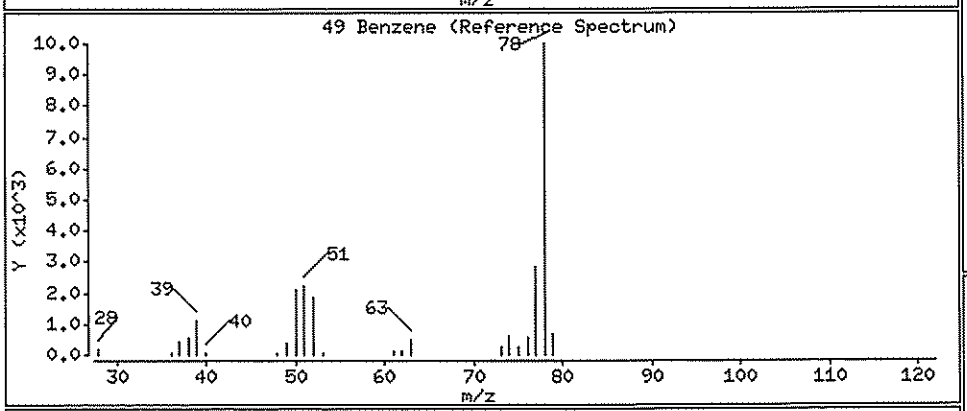
Purge Volume: 500.0 Operator: 7126

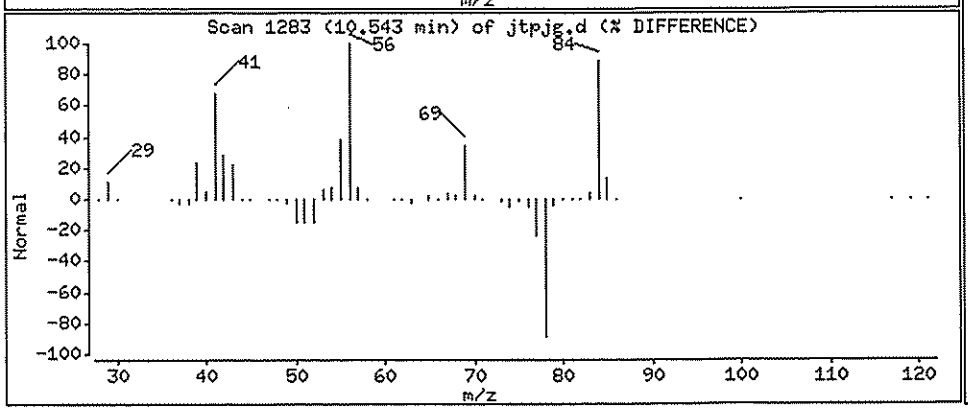
Column phase: Rtx-5 Column diameter: 0.32

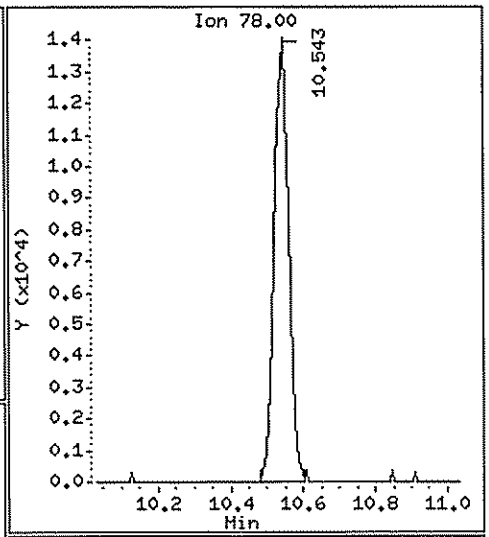
49 Benzene Concentration: 0.6834 ppb(v/v)

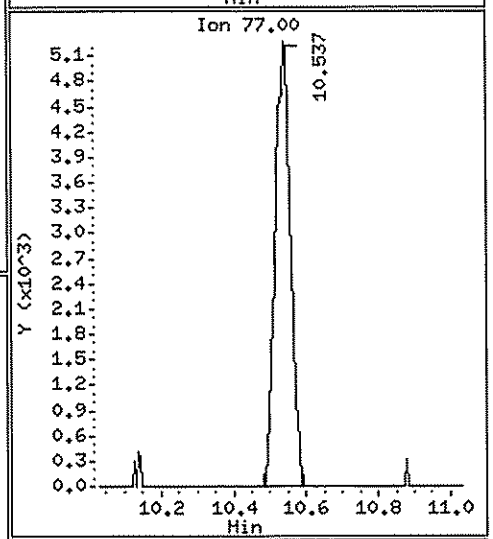


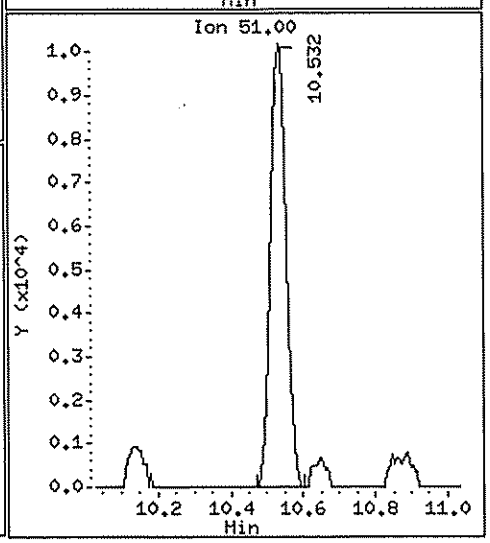












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjg.d

Date : 17-APR-2007 06:03

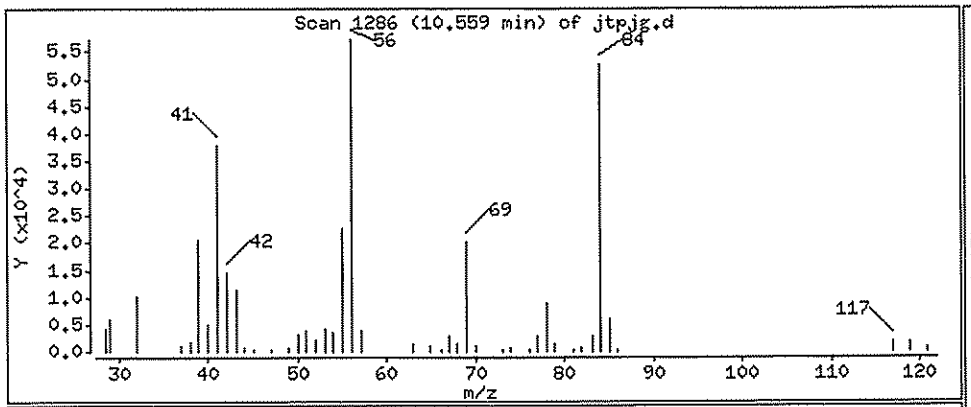
Client ID: SV-15(S.S) Instrument: mj.i

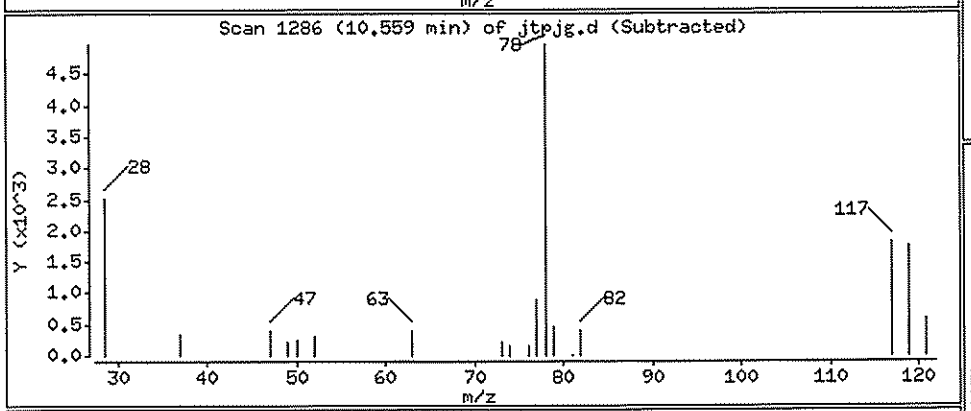
Sample Info: JTPJG1AD,2,0,,,

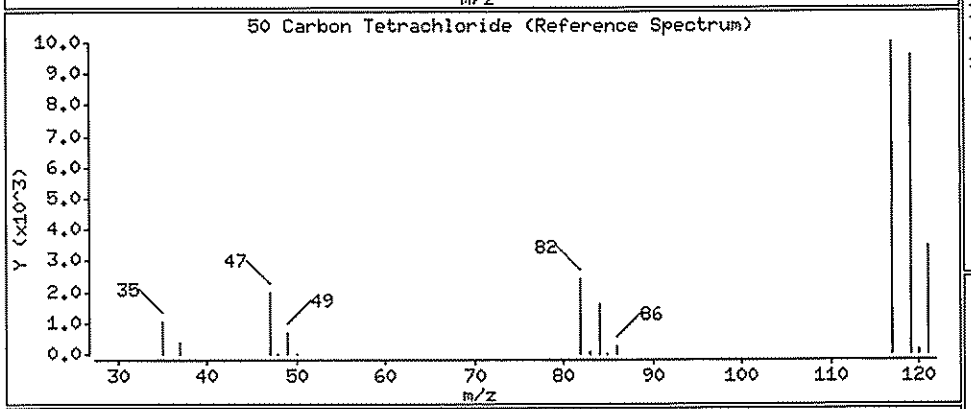
Purge Volume: 500.0 Operator: 7126

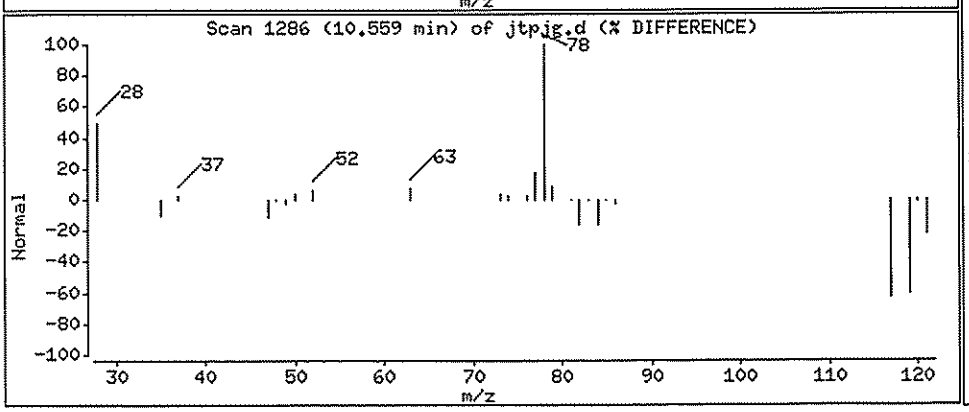
Column phase: Rtx-5 Column diameter: 0.32

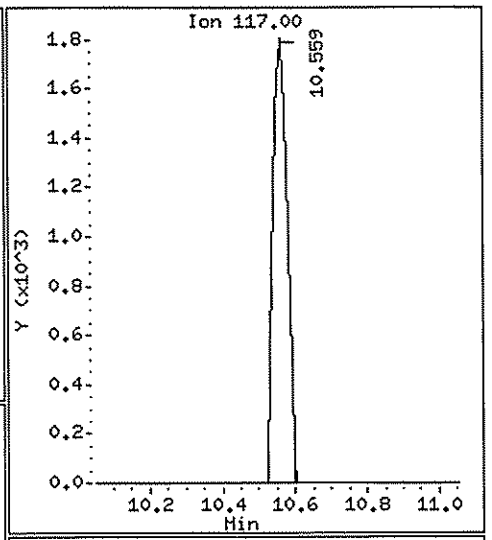
50 Carbon Tetrachloride Concentration: 0.08429 ppb(v/v)

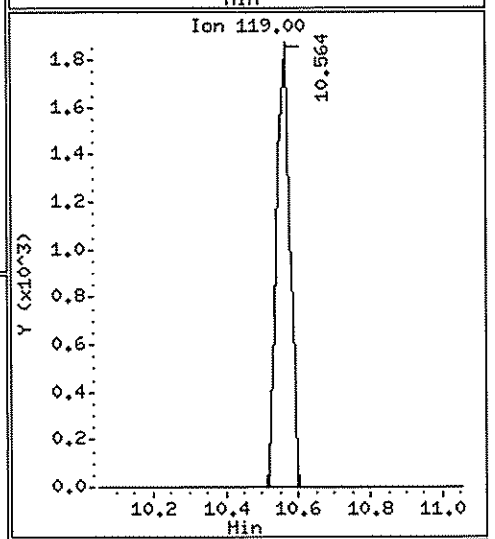


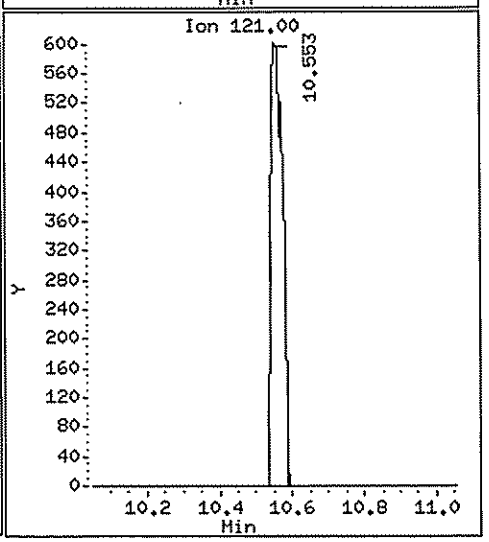












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjg.d

Date : 17-APR-2007 06:03

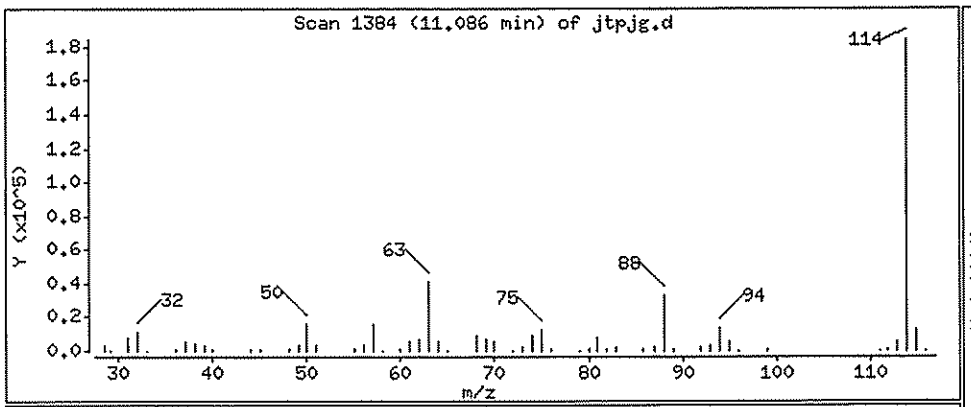
Client ID: SV-15(S,S) Instrument: mj.i

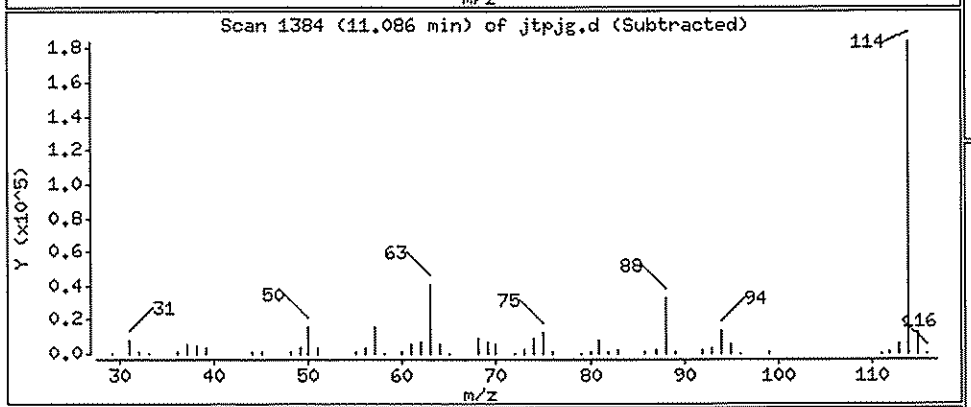
Sample Info: JTPJG1AD,2,0,,,

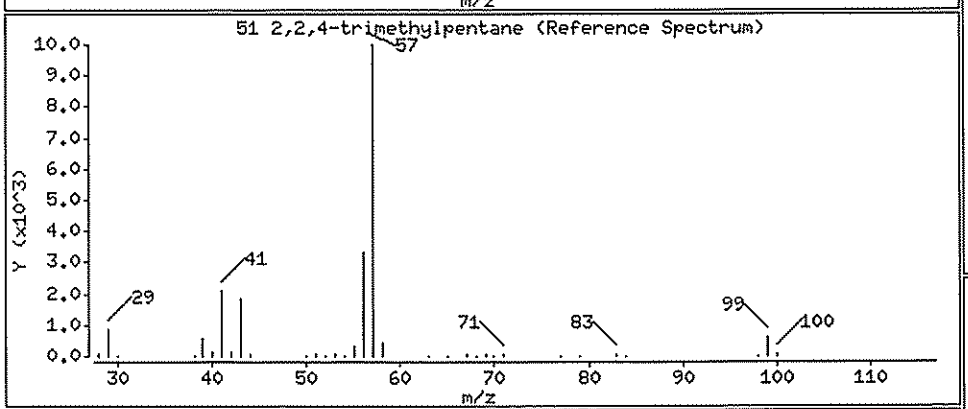
Purge Volume: 500.0 Operator: 7126

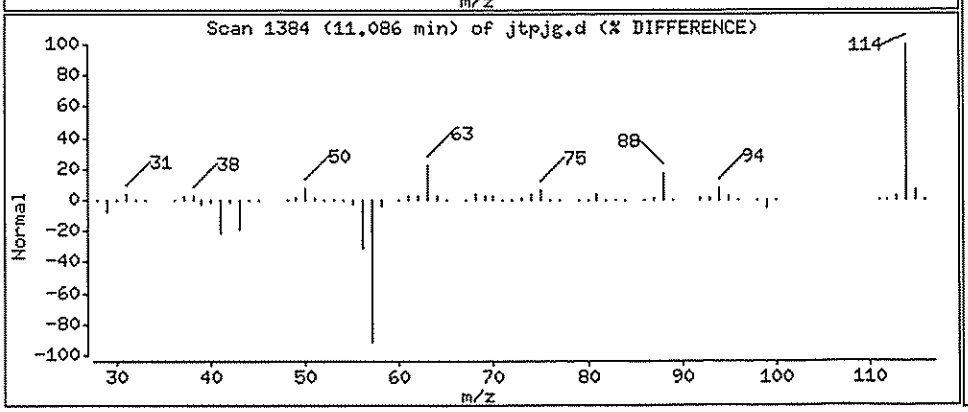
Column phase: Rtx-5 Column diameter: 0.32

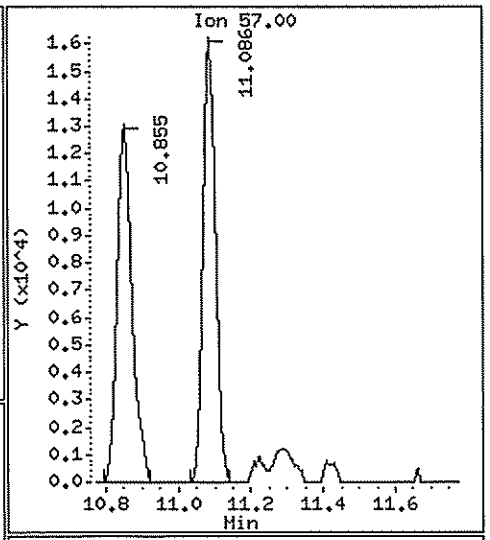
51 2,2,4-trimethylpentane Concentration: 0.4438 ppb(v/v)

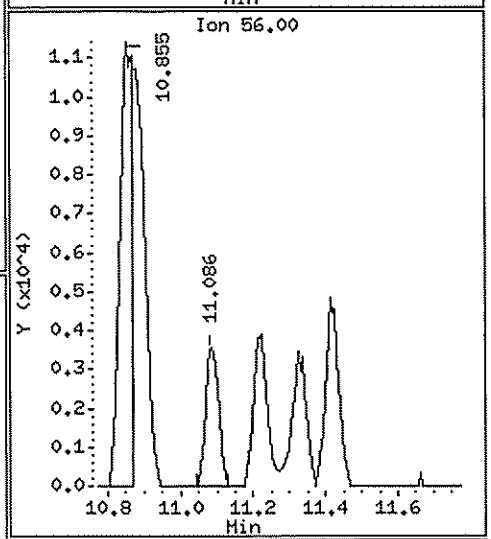


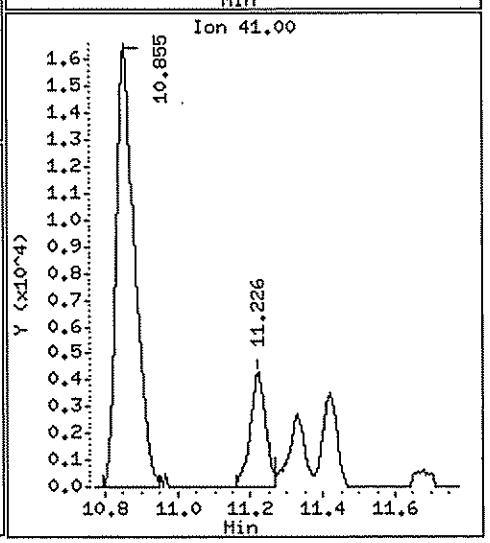












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjg.d

Date : 17-APR-2007 06:03

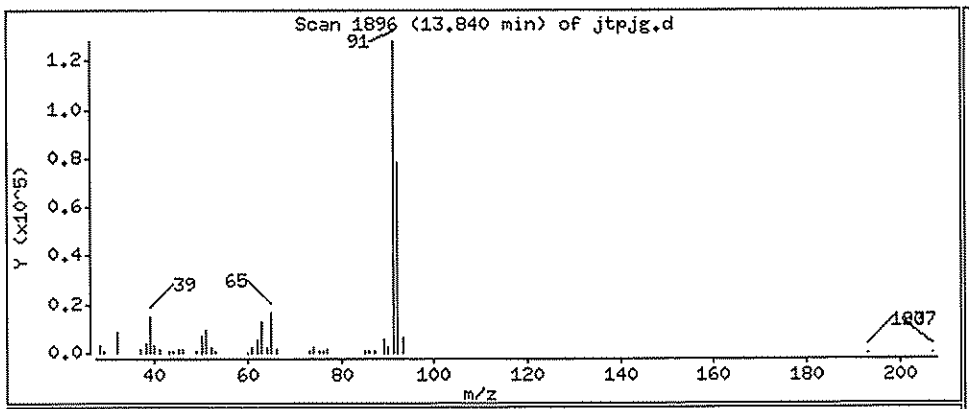
Client ID: SV-15(S,S) Instrument: mj.i

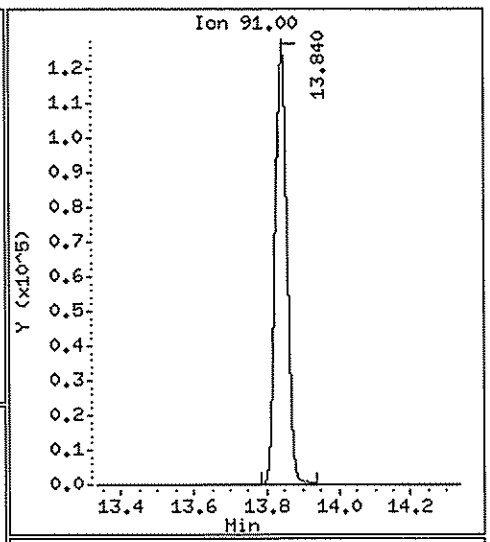
Sample Info: JTPJG1AD,2,0,,,

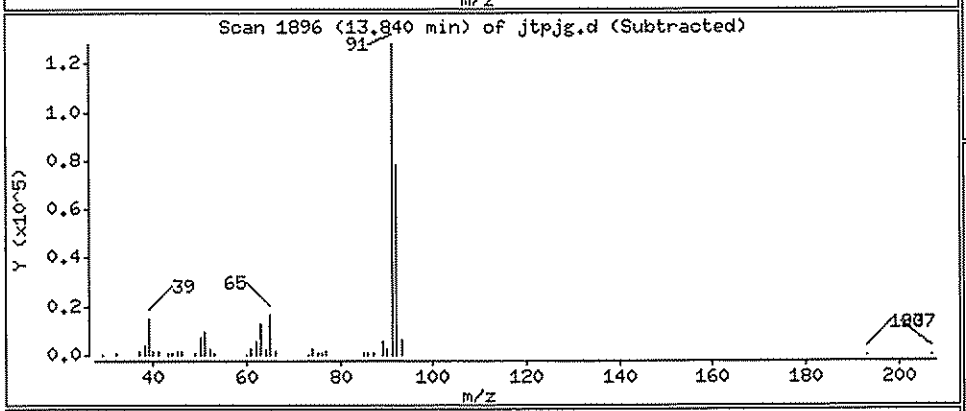
Purge Volume: 500.0 Operator: 7126

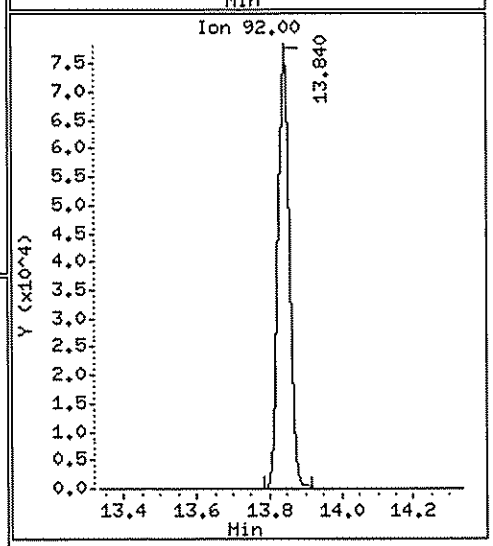
Column phase: Rtx-5 Column diameter: 0.32

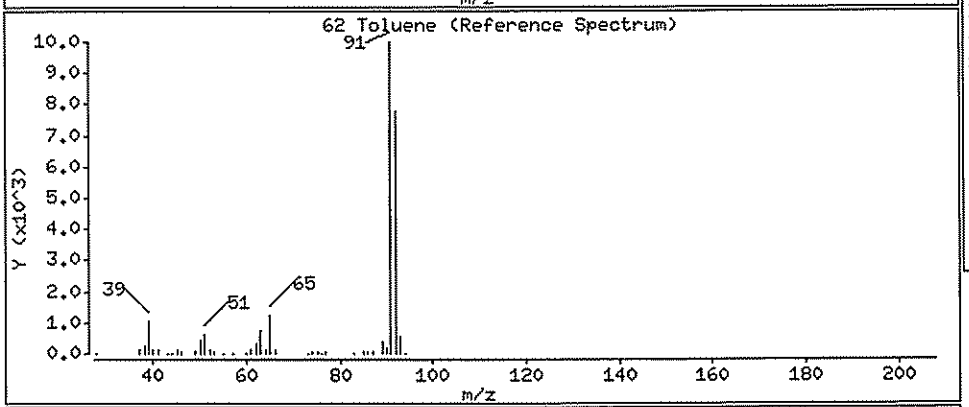
62 Toluene Concentration: 4.922 ppb(v/v)

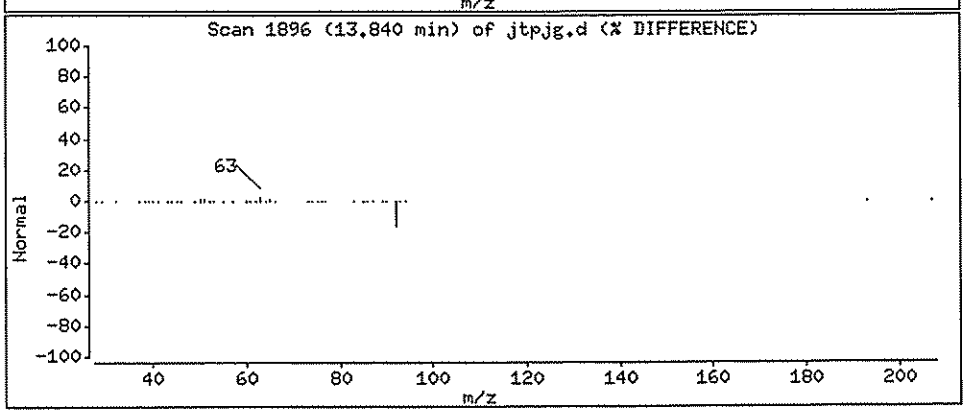












AKRF-White Plains

Client Sample ID: SV-15(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 012 **Work Order #** JTPJH1AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7107200
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	**0.45**	**0.080**	**1.9**	**0.35**
Trichlorofluoromethane	**0.24**	**0.080**	**1.4**	**0.45**
n-Heptane	**1.2**	**0.20**	**4.8**	**0.82**
n-Hexane	ND	0.20	ND	0.70
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.24**	**0.080**	**0.77**	**0.26**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	**0.090**	**0.080**	**0.61**	**0.54**
Toluene	**3.1**	**0.080**	**12**	**0.30**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
1,3,5-Trimethylbenzene	**0.14**	**0.080**	**0.71**	**0.39**
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	**0.40**	**0.080**	**1.8**	**0.35**
Methyl tert-butyl ether	ND	0.40	ND	1.4
m-Xylene & p-Xylene	**1.0**	**0.080**	**4.5**	**0.35**
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	**0.087**	**0.040**	**0.54**	**0.25**
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	**0.24**	**0.080**	**1.2**	**0.39**
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	**0.28**	**0.20**	**0.97**	**0.69**
Dichlorodifluoromethane	**0.45**	**0.080**	**2.2**	**0.40**
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37

AKRF-White Plains

Client Sample ID: SV-15(A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 012 **Work Order #** JTPJH1AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	105	70 - 130
Toluene-d8	104	70 - 130
4-Bromofluorobenzene	104	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TO-14 _rev5.rpt version 5.0.103 10/12/2006

Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d
Report Date: 19-Apr-2007 19:00

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041607.b/jtpjh.d
Lab Smp Id: JTPJH1AD Client Smp ID: SV-15(A.A)
Inj Date : 17-APR-2007 06:41
Operator : 7126 Inst ID: mj.i
Smp Info : JTPJH1AD,,0,,,
Misc Info : J041607,TO15,magna.sub,,,500 ML
Comment :
Method : /var/chem/gcms/mj.i/J041607.b/TO15.m
Meth Date : 19-Apr-2007 17:51 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: magna.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.899	8.899	(1.000)	181999	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.088	11.083	(1.000)	758248	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.806	15.806	(1.000)	677681	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.910	9.905	(0.894)	203224	4.21199	4.212
$ 5 Toluene-d8	98	13.729	13.724	(0.869)	689084	4.17844	4.178
$ 6 4-Bromofluorobenzene	95	17.447	17.441	(1.104)	567239	4.14811	4.148
8 Dichlorodifluoromethane	85	3.777	3.778	(0.424)	98904	0.45311	0.4531
15 1,3-Butadiene	54	4.224	4.219	(0.475)	6324	0.17069	~~0.1707~~
20 Trichlorofluoromethane	101	5.262	5.262	(0.591)	53012	0.24398	0.2440
32 3-Chloropropene	39	6.171	6.344	(0.694)	7244	0.11161	~~0.1116~~
43 Chloroform	83	8.909	8.904	(1.001)	33271	0.23721	0.2372
47 Cyclohexane	69	10.529	10.523	(0.950)	9209	0.28179	0.2818
49 Benzene	78	10.539	10.534	(0.950)	44146	0.24165	0.2416
50 Carbon Tetrachloride	117	10.561	10.556	(1.187)	14203	0.08651	0.08651
51 2,2,4-trimethylpentane	57	11.083	11.277	(1.000)	66068	0.21923	~~0.2192~~
52 Heptane	43	11.658	11.653	(1.051)	125879	1.16555	1.166

KM 4-19-07

Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d
Report Date: 19-Apr-2007 19:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
62 Toluene	91	13.842	13.837	(0.876)	550269	3.11891	3.119
63 1,1,2-Trichloroethane	97	13.746	13.923	(0.870)	83232	1.30561	~~1.306~~
68 Tetrachloroethene	129	14.972	14.978	(0.947)	7488	0.09009	0.09009
70 Ethylbenzene	91	16.140	16.140	(1.021)	93045	0.44538	0.4454
71 m&p-Xylene	91	16.296	16.301	(1.031)	166692	1.03122	1.031
75 o-Xylene	91	16.823	16.823	(1.064)	71099	0.40464	0.4046
83 4-Ethyltoluene	105	18.055	18.092	(1.142)	49922	0.22063	~~0.2206~~
84 1,3,5-Trimethylbenzene	120	18.162	18.162	(1.149)	12073	0.14444	0.1444

KM
4-19-07

Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d
Report Date: 19-Apr-2007 19:00

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jtpjh.d
Lab Smp Id: JTPJH1AD
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,magna.sub,,,500 ML

Calibration Date: 16-APR-2007
Calibration Time: 12:57
Client Smp ID: SV-15(A.A)
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	185541	110397	260685	181999	-1.91
2 1,4-Difluorobenze	738195	439226	1037164	758248	2.72
3 Chlorobenzene-d5	652787	388408	917166	677681	3.81

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.90	8.57	9.23	8.90	0.00
2 1,4-Difluorobenze	11.08	10.75	11.41	11.09	0.05
3 Chlorobenzene-d5	15.81	15.48	16.14	15.81	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d
Report Date: 19-Apr-2007 19:00

STL Knoxville

RECOVERY REPORT

Client Name: AKRF-White Plains
Sample Matrix: GAS
Lab Smp Id: JTPJH1AD
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: magna.sub
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,magna.sub,,,500 ML

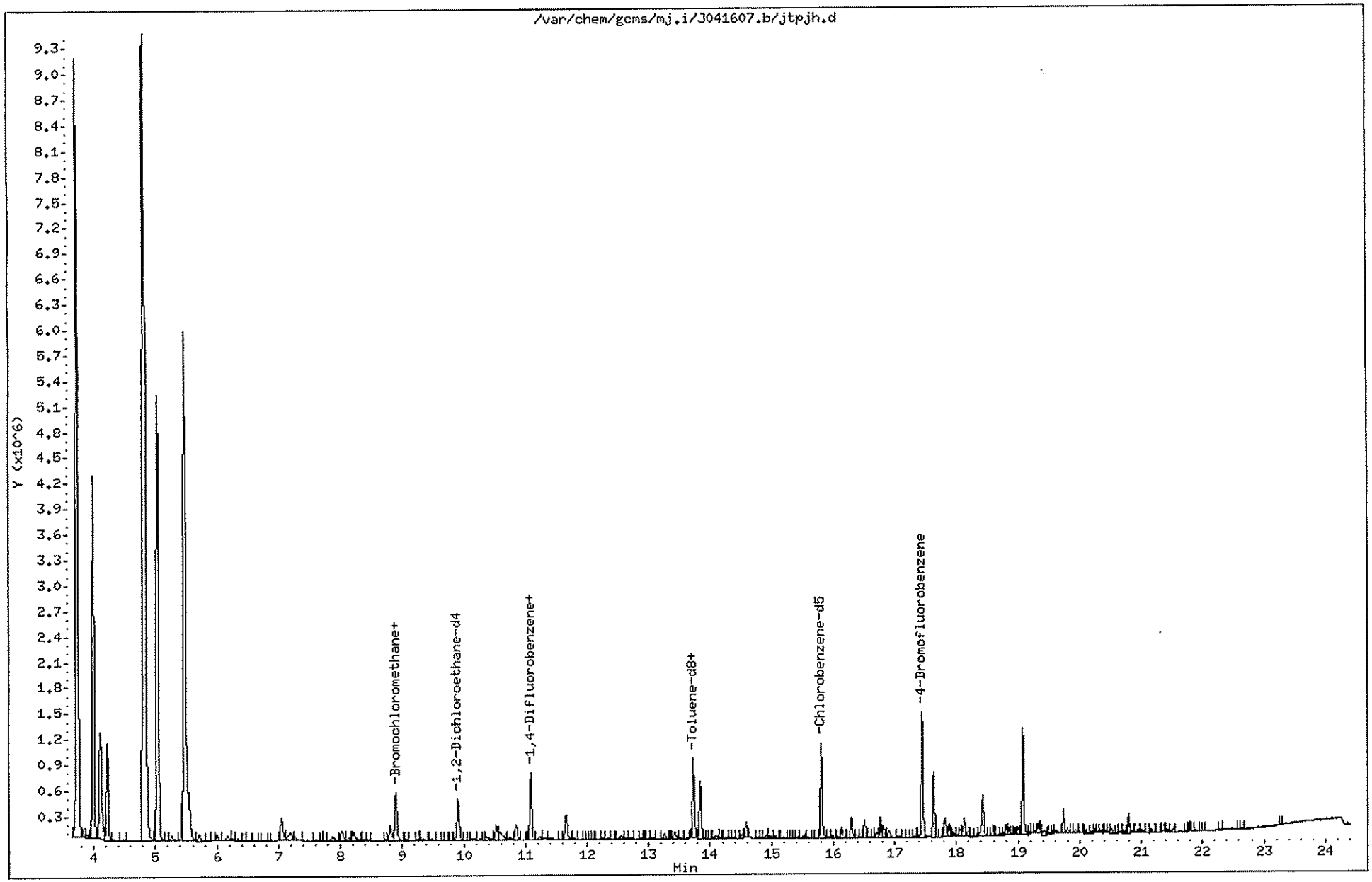
Client SDG: H7D110232
Fraction: OTHER
Client Smp ID: SV-15(A.A)
Operator: 7126
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	4.000	4.212	105.30	70-130
$ 5 Toluene-d8	4.000	4.178	104.46	70-130
$ 6 4-Bromofluorobenze	4.000	4.148	103.70	70-130

Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d
Date : 17-APR-2007 06:41
Client ID: SV-15(A,A)
Sample Info: JTPJH1AD,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d

Date : 17-APR-2007 06:41

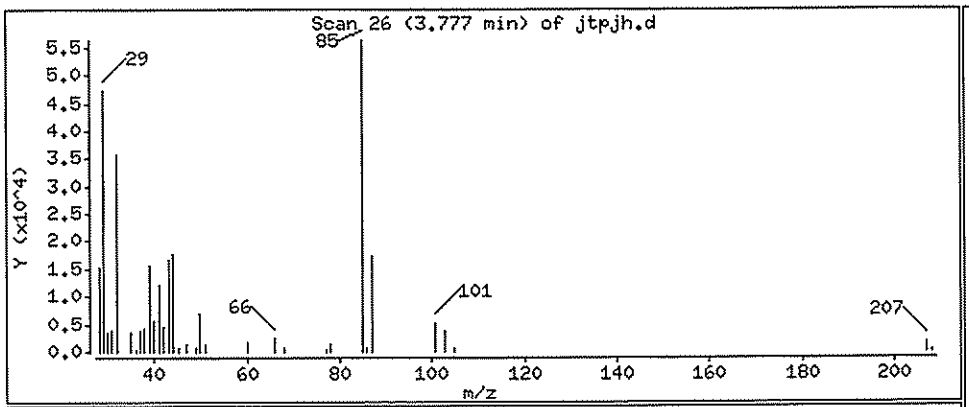
Client ID: SV-15(A,A) Instrument: mj.i

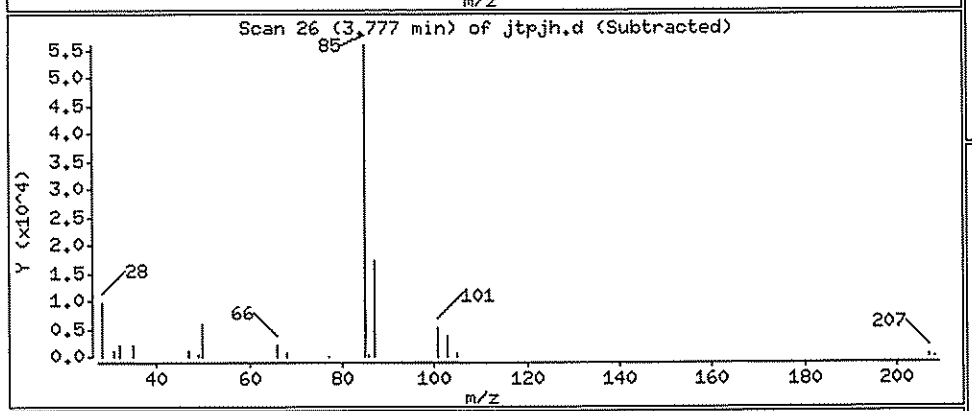
Sample Info: JTPJH1AD,,0,,,

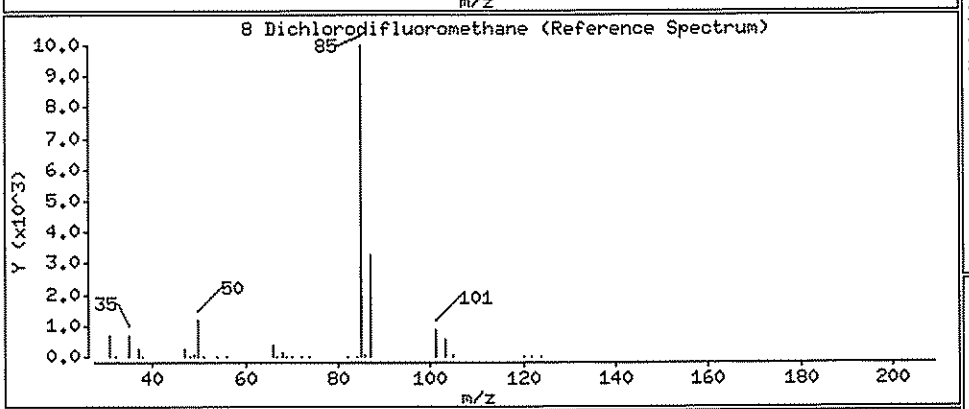
Purge Volume: 500.0 Operator: 7126

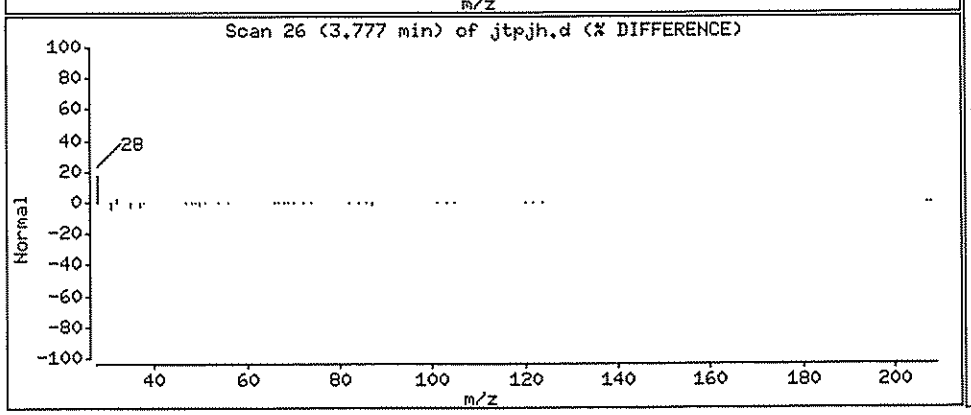
Column phase: Rtx-5 Column diameter: 0.32

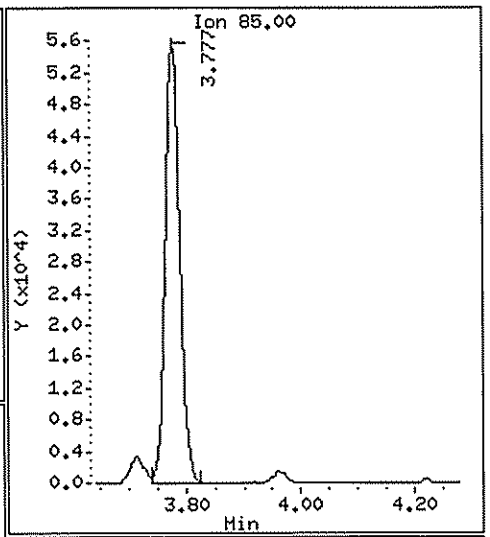
8 Dichlorodifluoromethane Concentration: 0.4531 ppb(v/v)

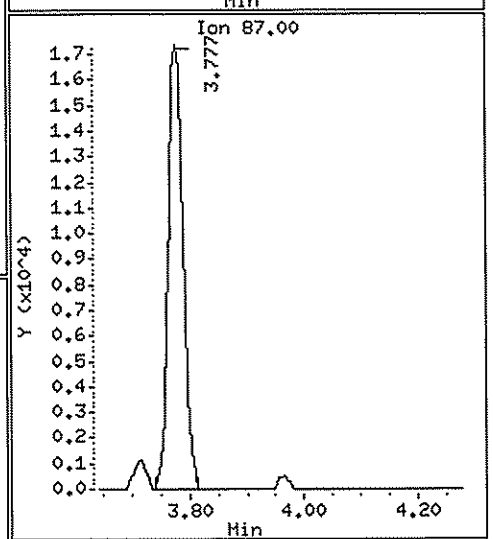


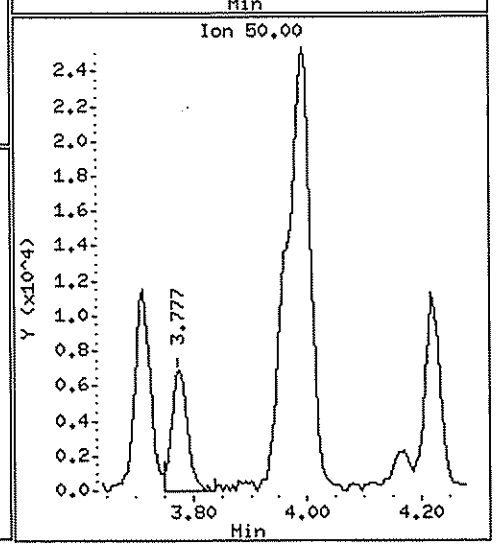












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d

Date : 17-APR-2007 06:41

Client ID: SV-15(A,A)

Instrument: mj.i

Sample Info: JTPJH1AD,,0,,,

Purge Volume: 500.0

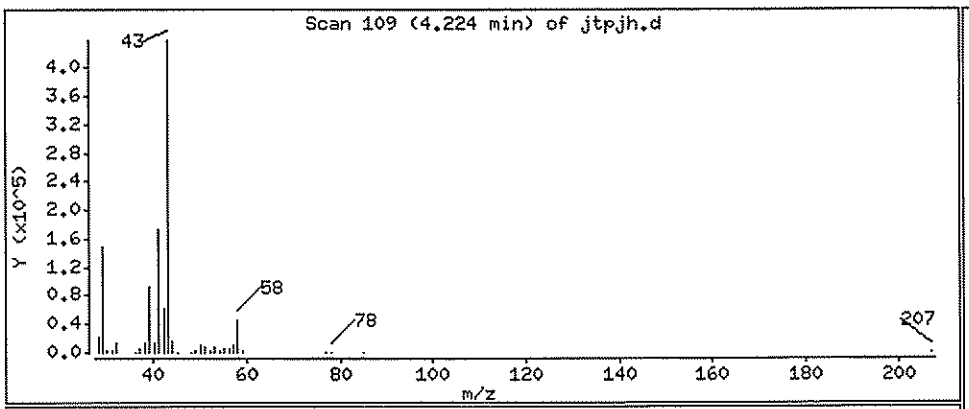
Operator: 7126

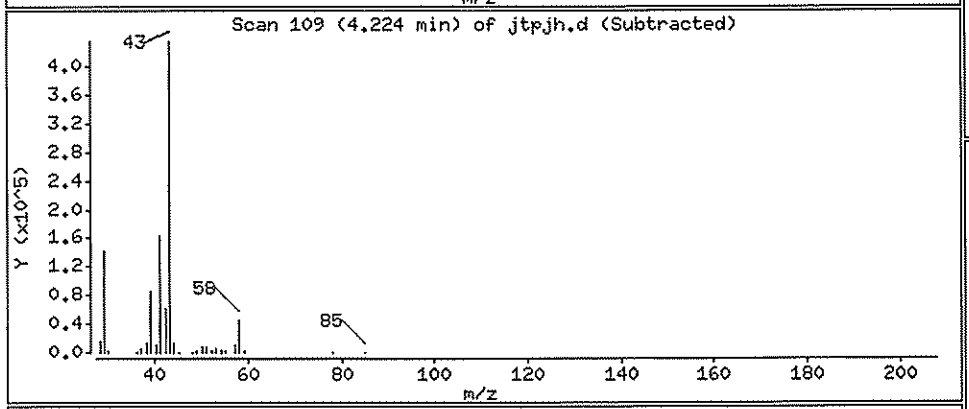
Column phase: Rtx-5

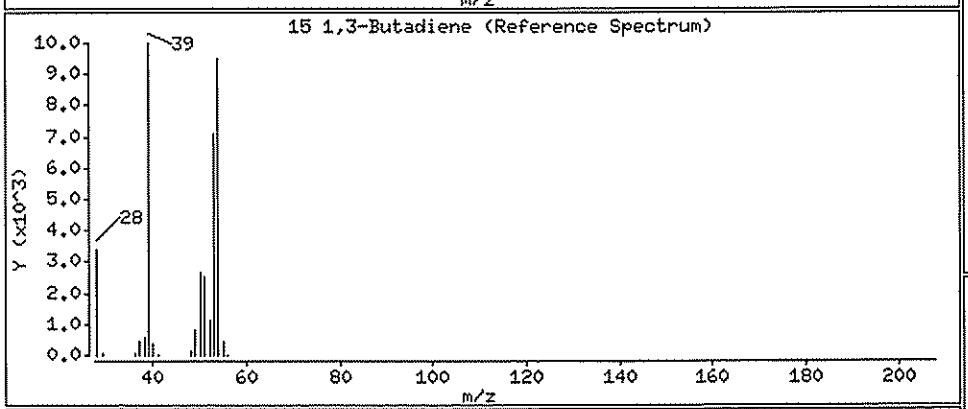
Column diameter: 0.32

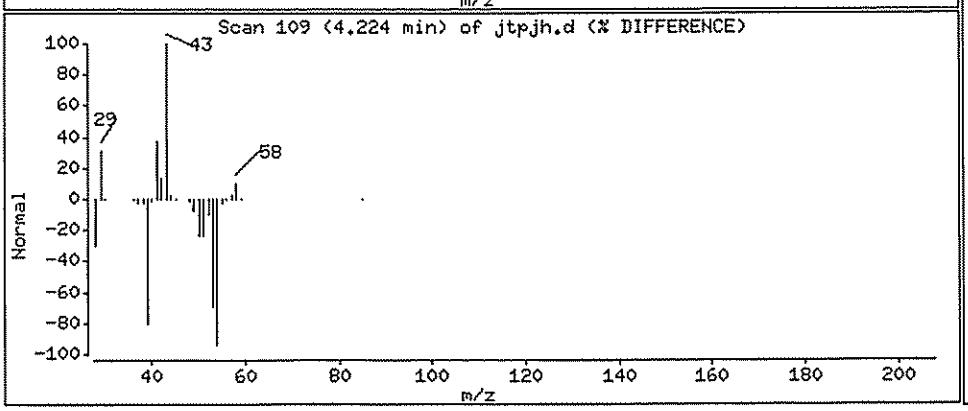
15 1,3-Butadiene

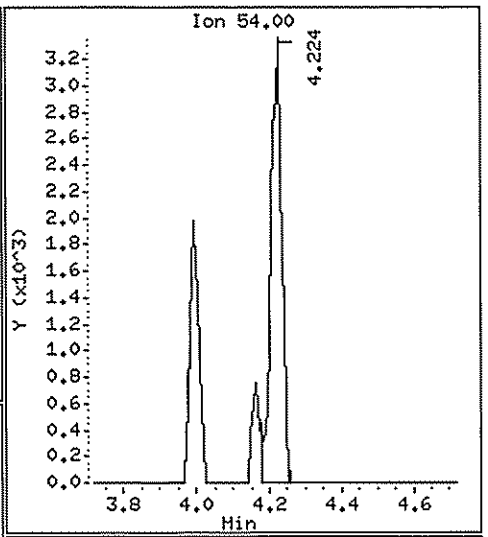
Concentration: 0.1707 ppb(v/v)

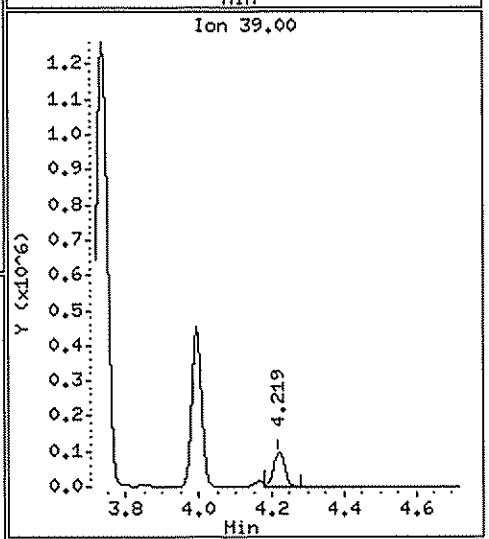


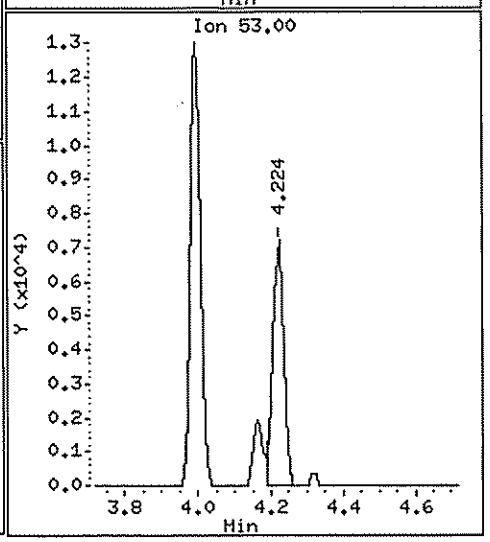












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d

Date : 17-APR-2007 06:41

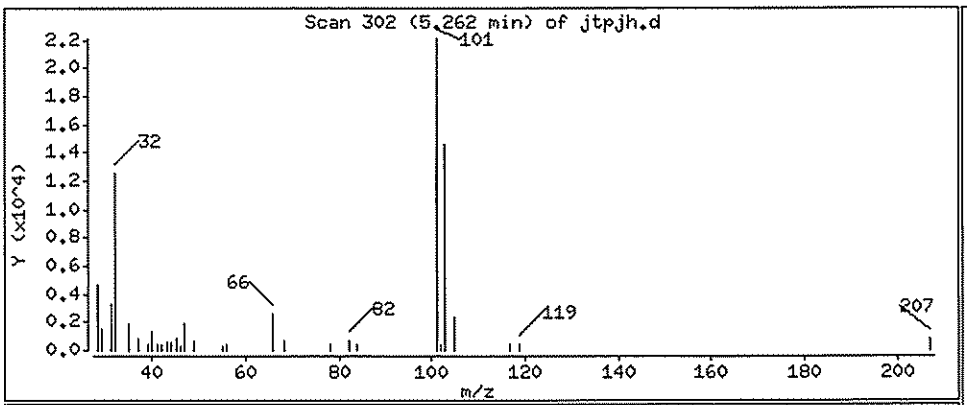
Client ID: SV-15(A.A) Instrument: mj.i

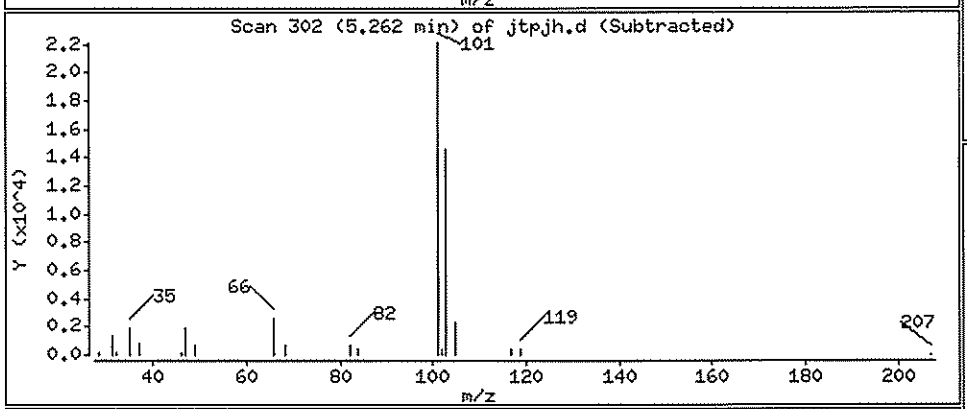
Sample Info: JTPJH1AD,,0,,,

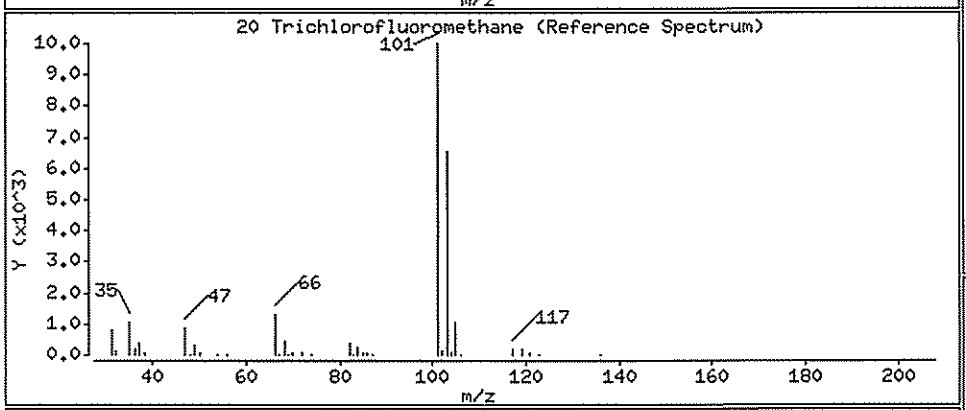
Purge Volume: 500.0 Operator: 7126

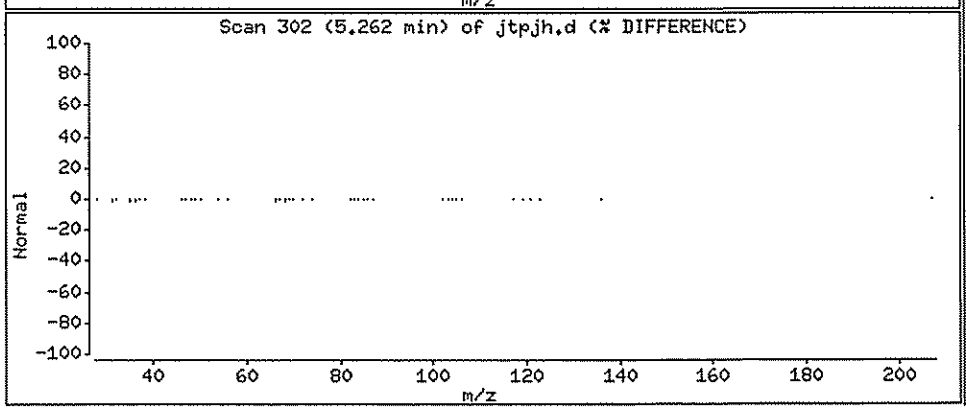
Column phase: Rtx-5 Column diameter: 0.32

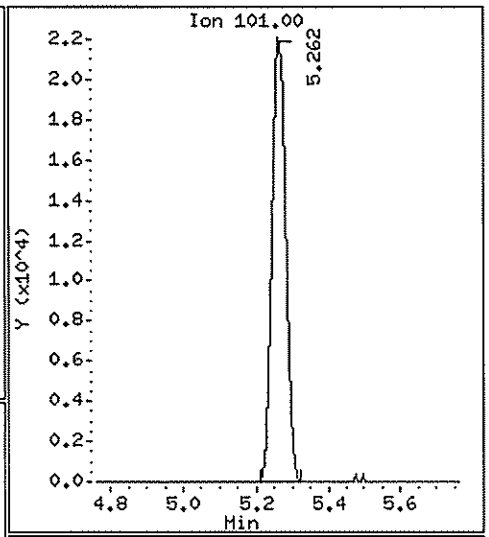
20 Trichlorofluoromethane Concentration: 0.2440 ppb(v/v)

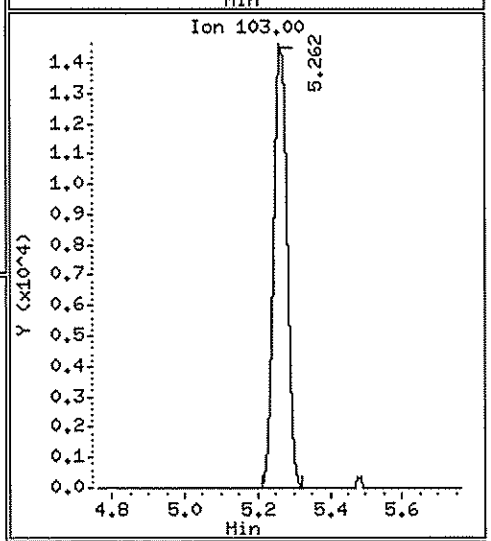


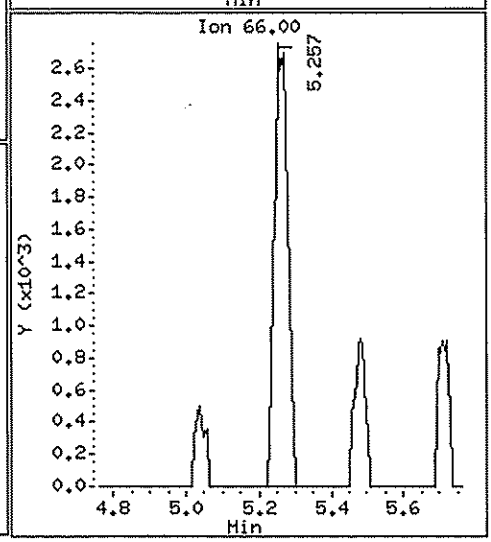












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d

Date : 17-APR-2007 06:41

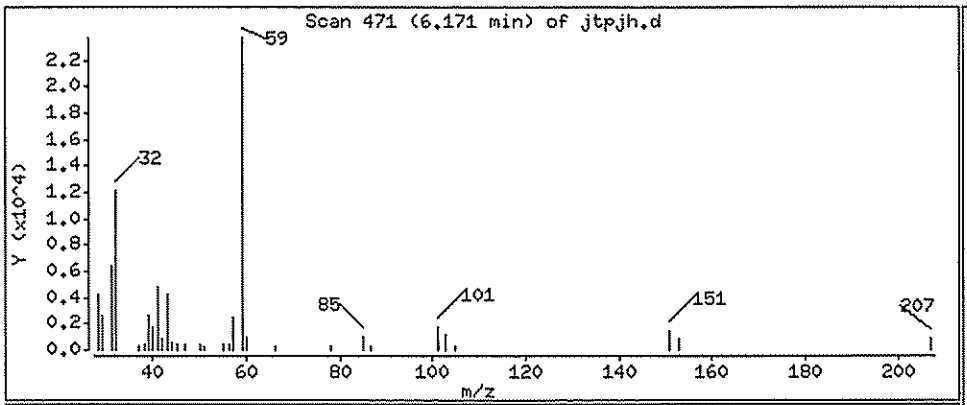
Client ID: SV-15(A.A) Instrument: mj.i

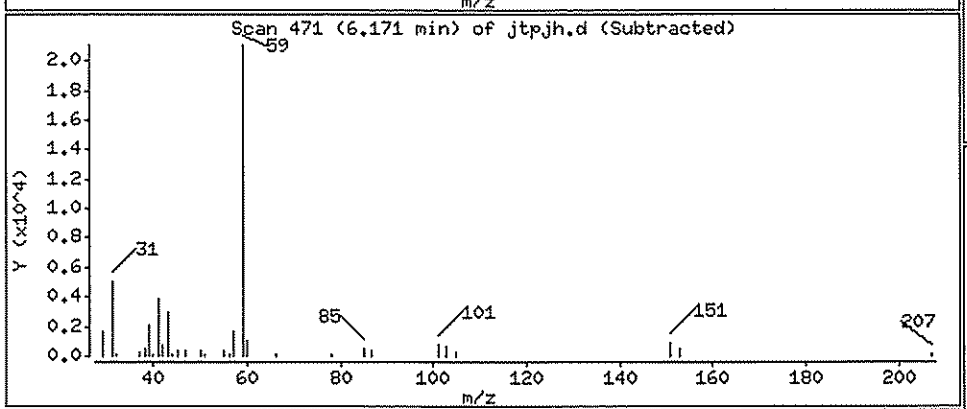
Sample Info: JTPJH1AD,,0,,,

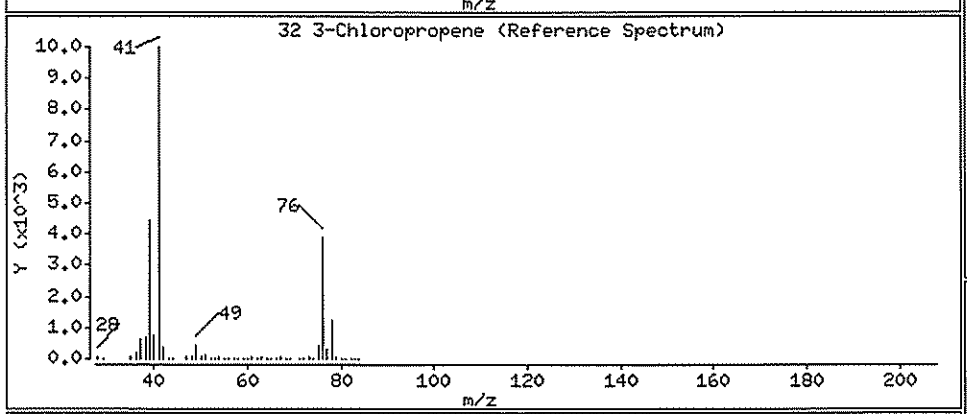
Purge Volume: 500.0 Operator: 7126

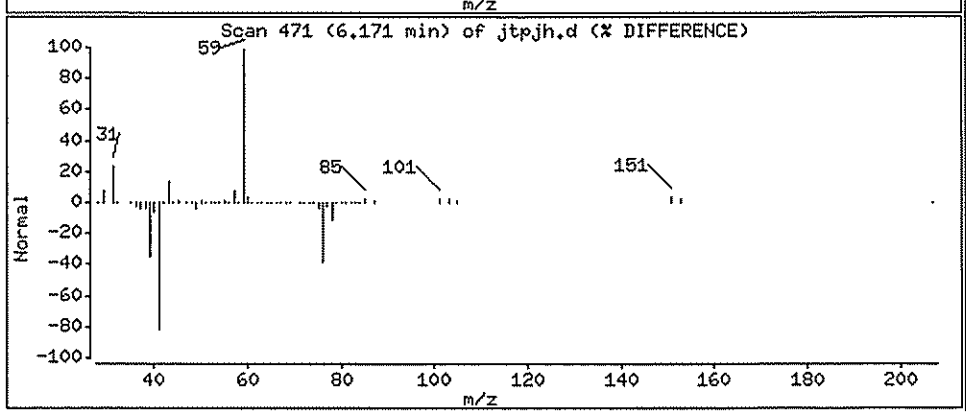
Column phase: Rtx-5 Column diameter: 0.32

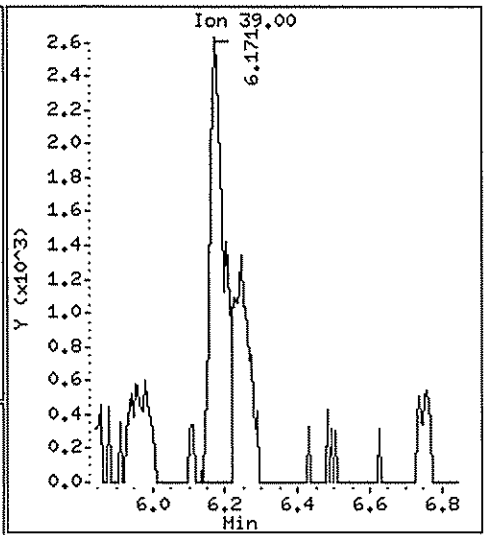
32 3-Chloropropene Concentration: 0.1116 ppb(v/v)

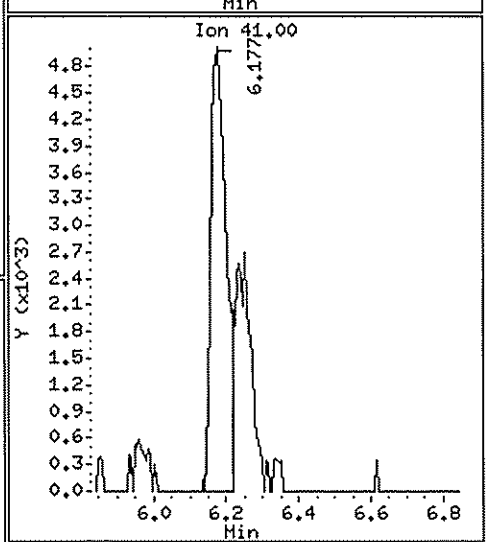


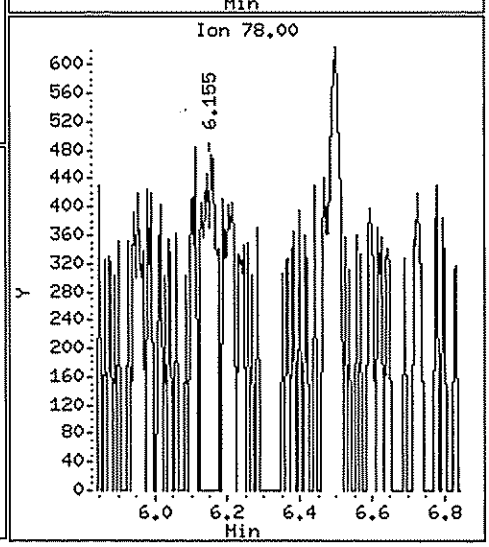












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d

Date : 17-APR-2007 06:41

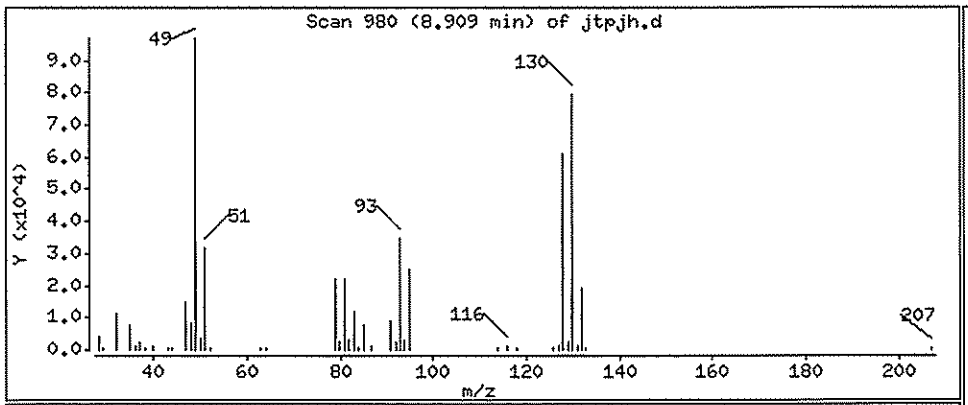
Client ID: SV-15(A,A) Instrument: mj.i

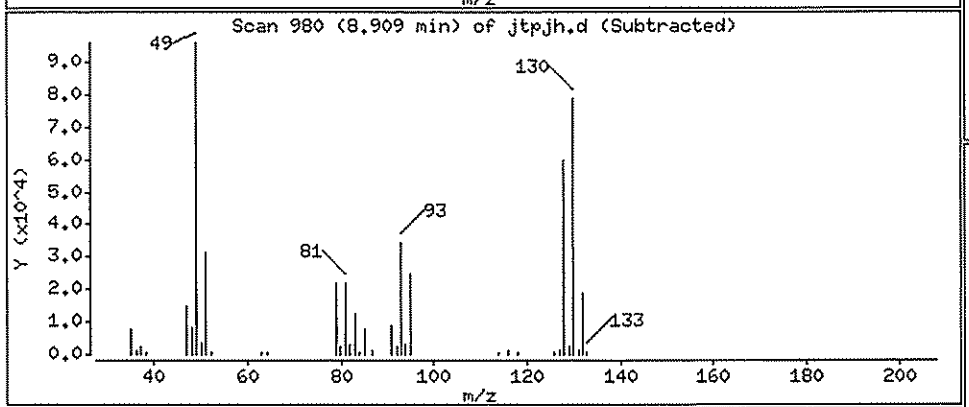
Sample Info: JTPJH1AD,,0,,,

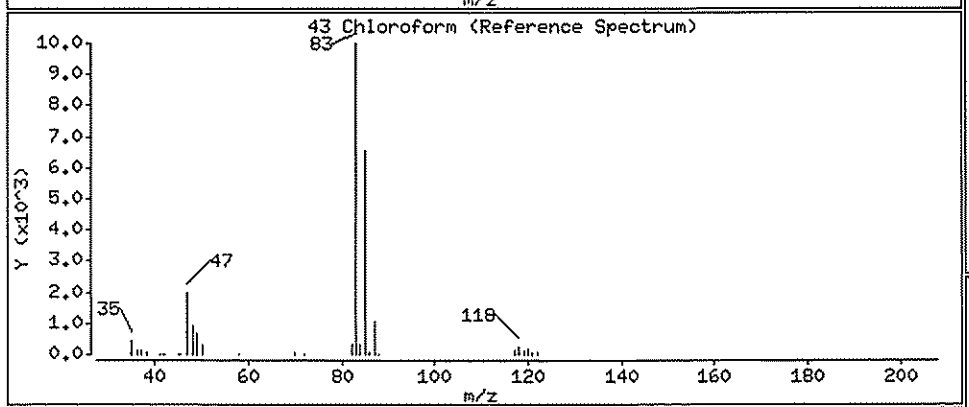
Purge Volume: 500.0 Operator: 7126

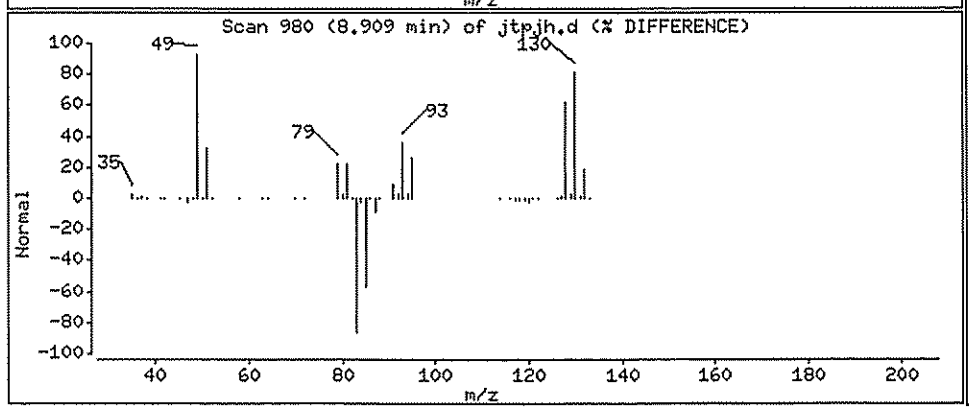
Column phase: Rtx-5 Column diameter: 0.32

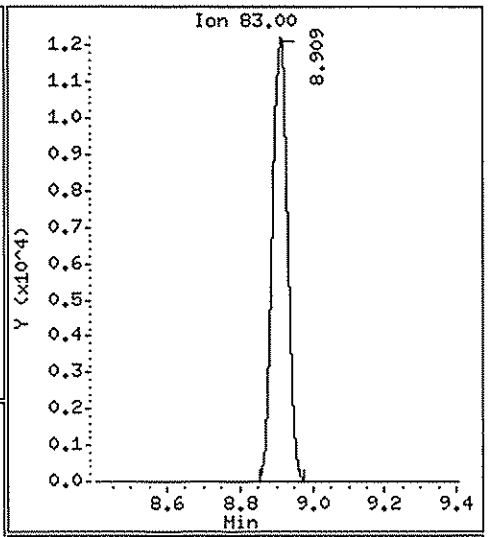
43 Chloroform Concentration: 0.2372 ppb(v/v)

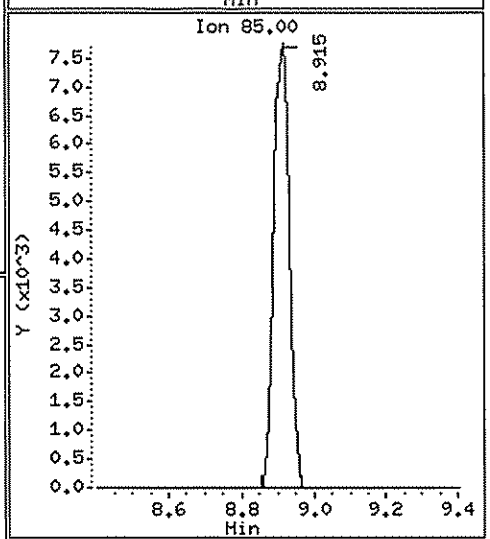


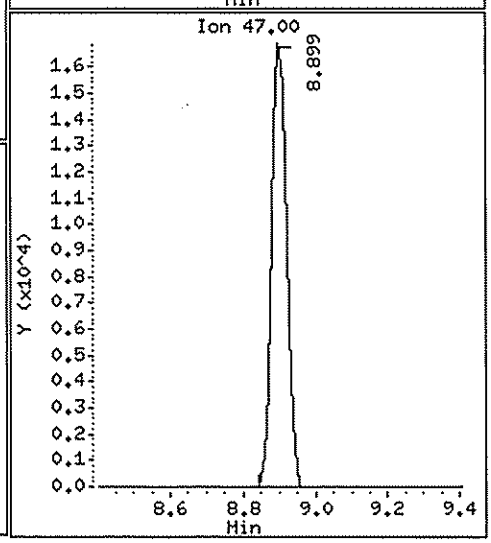












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d

Date : 17-APR-2007 06:41

Client ID: SV-15(A,A)

Instrument: mj.i

Sample Info: JTPJH1AD,,0,,,

Purge Volume: 500.0

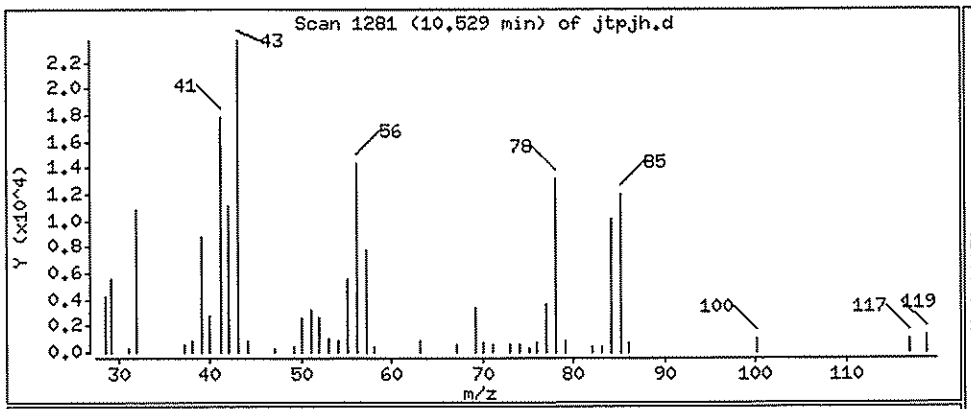
Operator: 7126

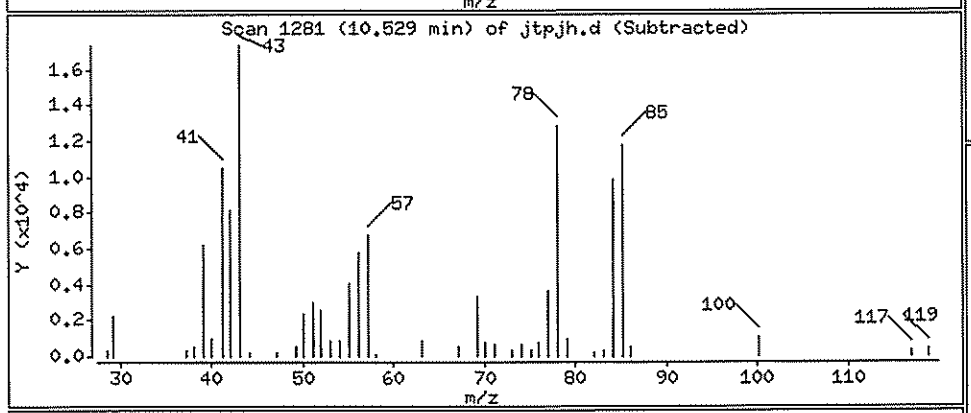
Column phase: Rtx-5

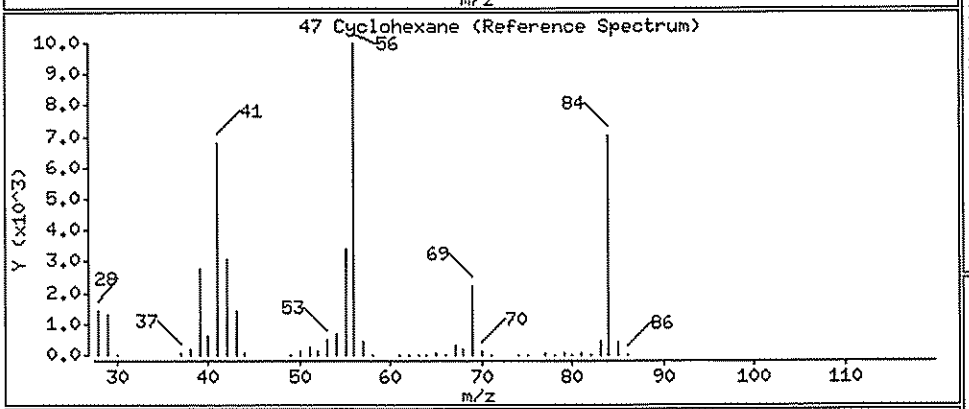
Column diameter: 0.32

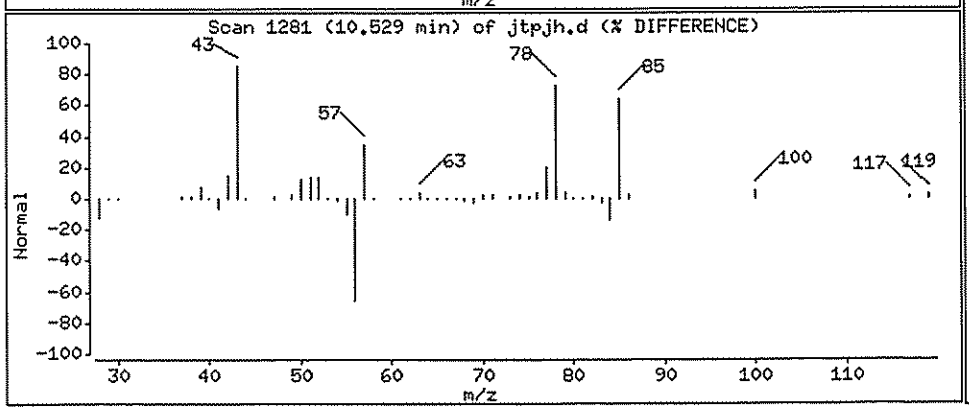
47 Cyclohexane

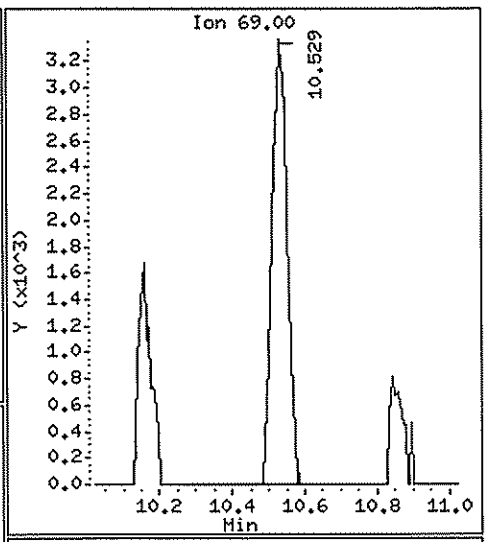
Concentration: 0.2818 ppb(v/v)

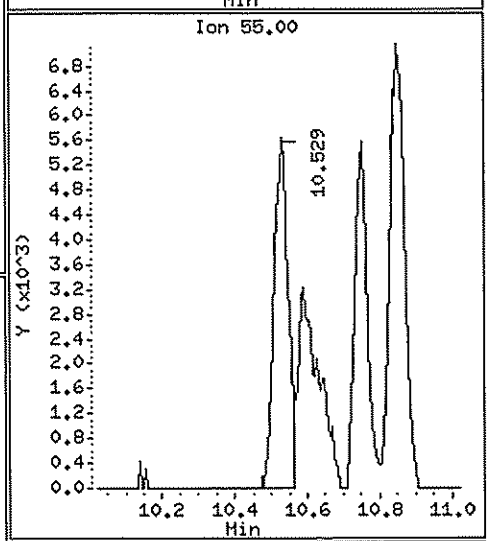


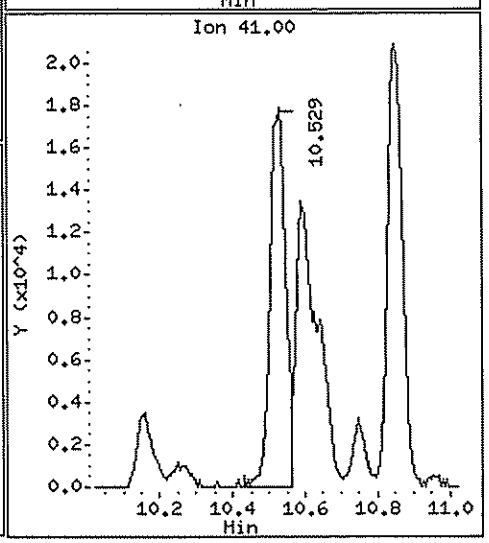












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d

Date : 17-APR-2007 06:41

Client ID: SV-15(A,A)

Instrument: mj.i

Sample Info: JTPJH1AD,,0,,,

Purge Volume: 500.0

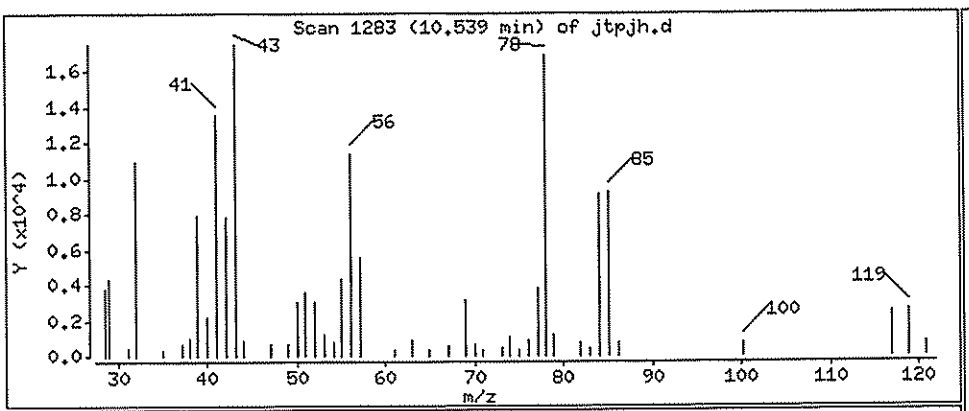
Operator: 7126

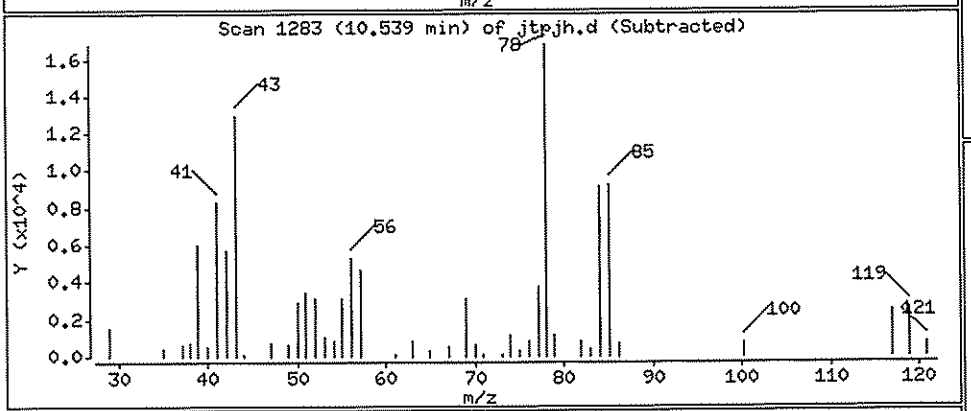
Column phase: Rtx-5

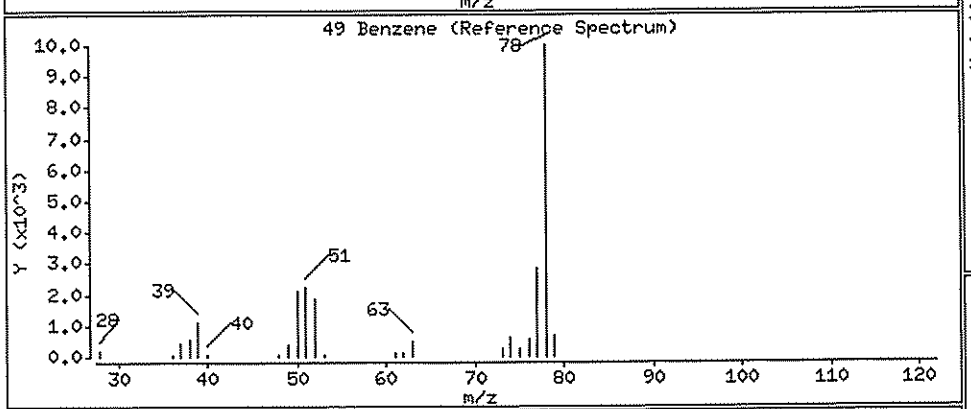
Column diameter: 0.32

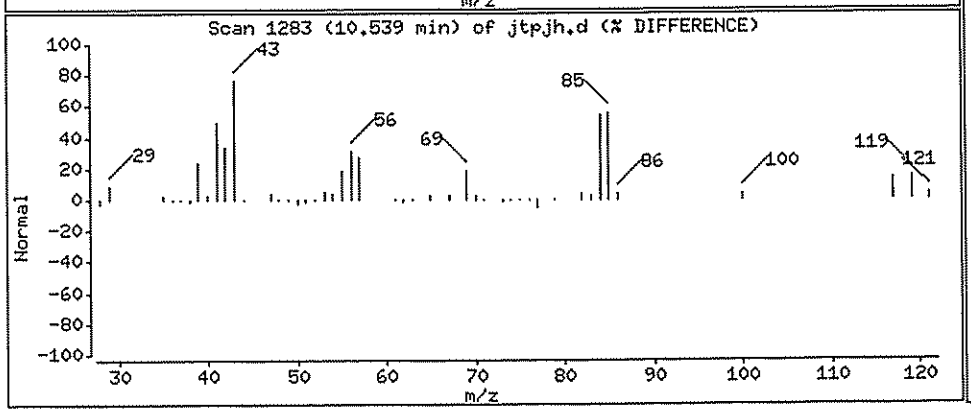
49 Benzene

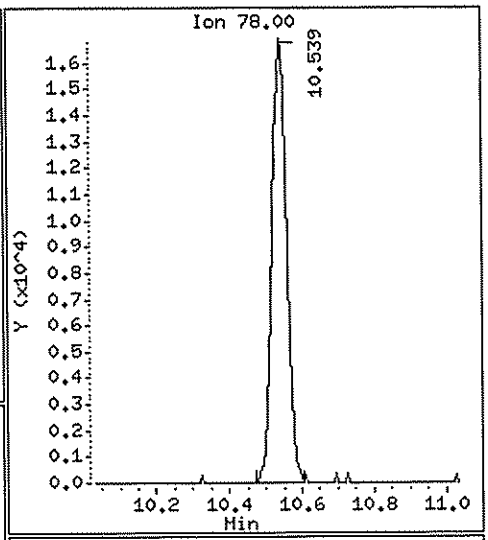
Concentration: 0.2416 ppb(v/v)

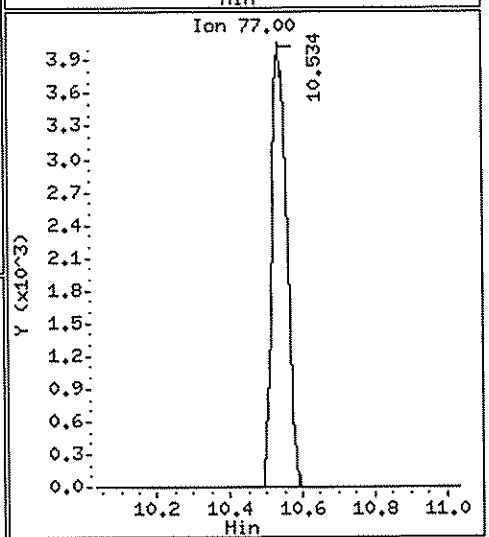


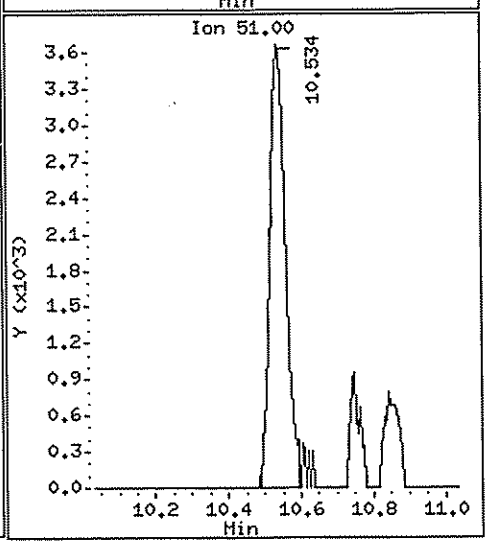












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d

Date : 17-APR-2007 06:41

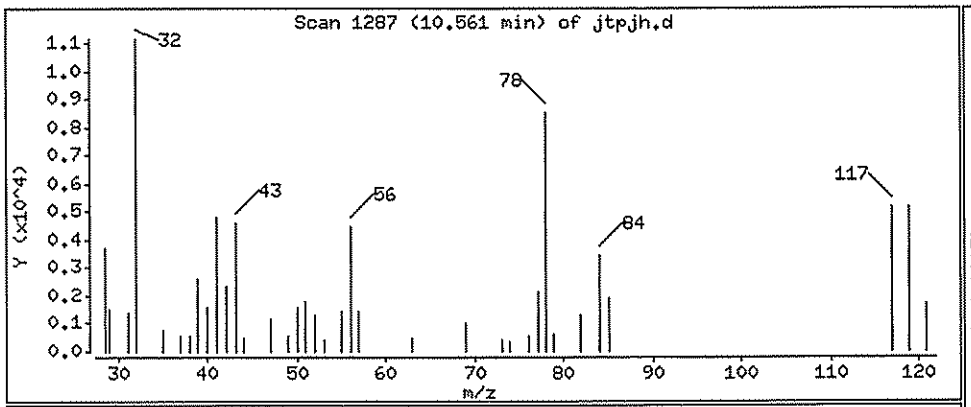
Client ID: SV-15(A.A) Instrument: mj.i

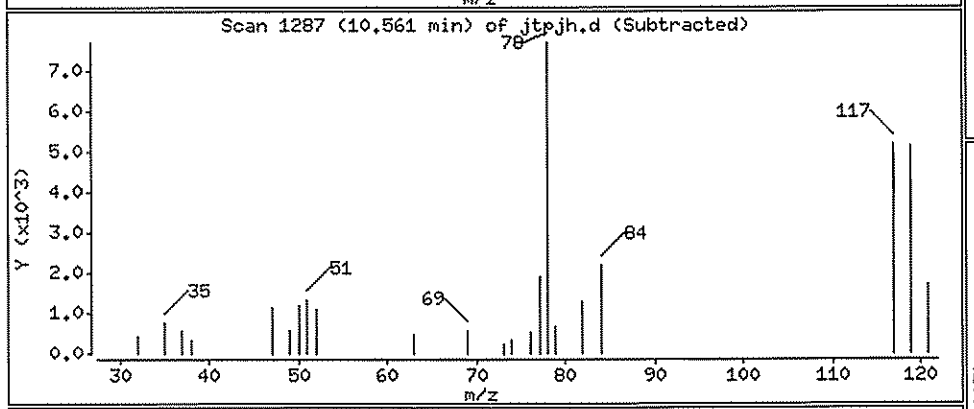
Sample Info: JTPJH1AD,,0,,,

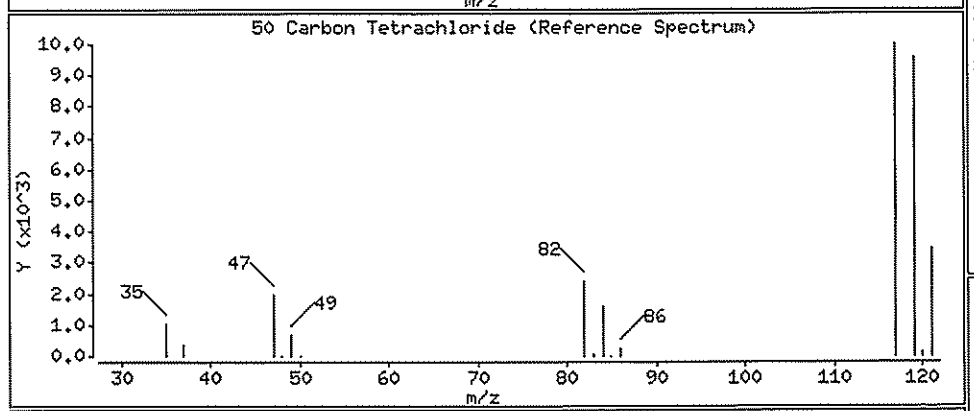
Purge Volume: 500.0 Operator: 7126

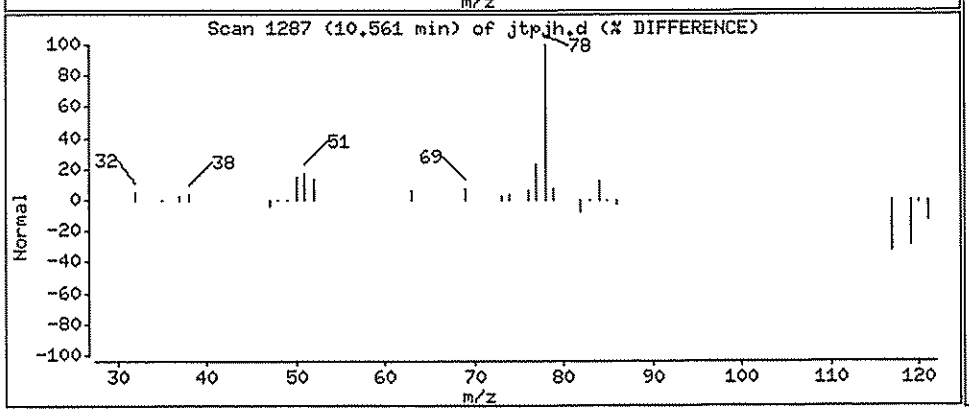
Column phase: Rtx-5 Column diameter: 0.32

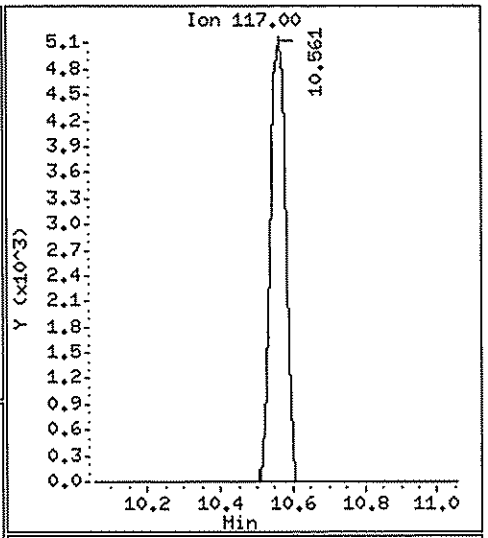
50 Carbon Tetrachloride Concentration: 0.08651 ppb(v/v)

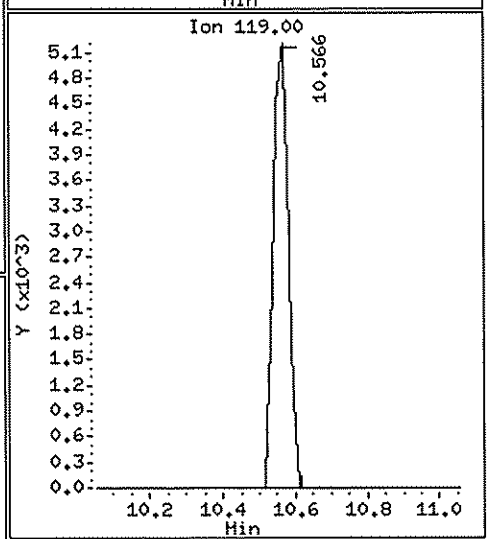


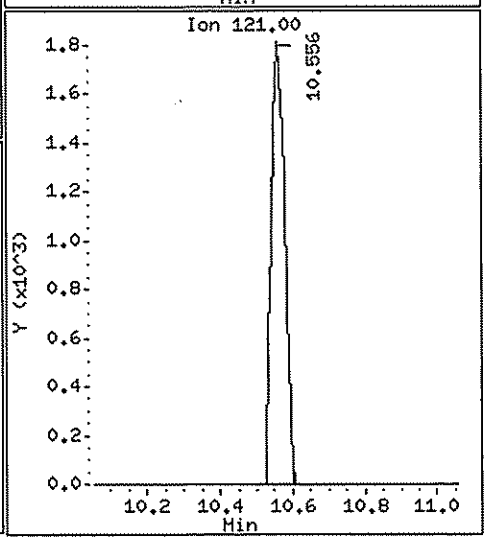












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d

Date : 17-APR-2007 06:41

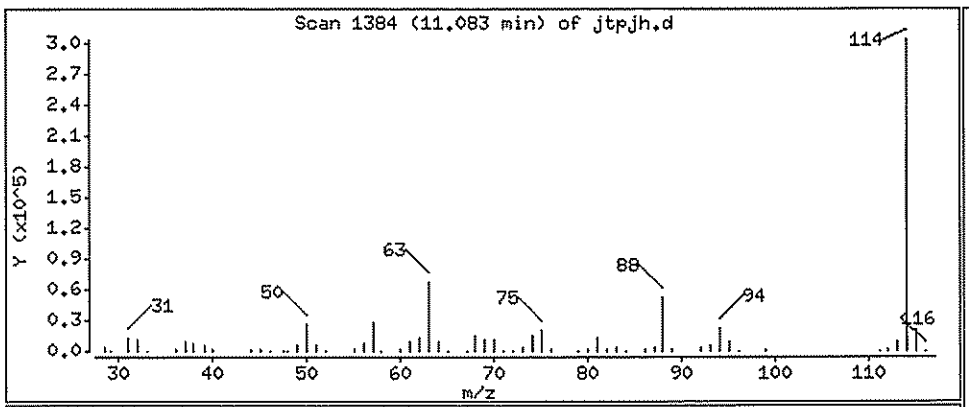
Client ID: SV-15(A.A) Instrument: mj.i

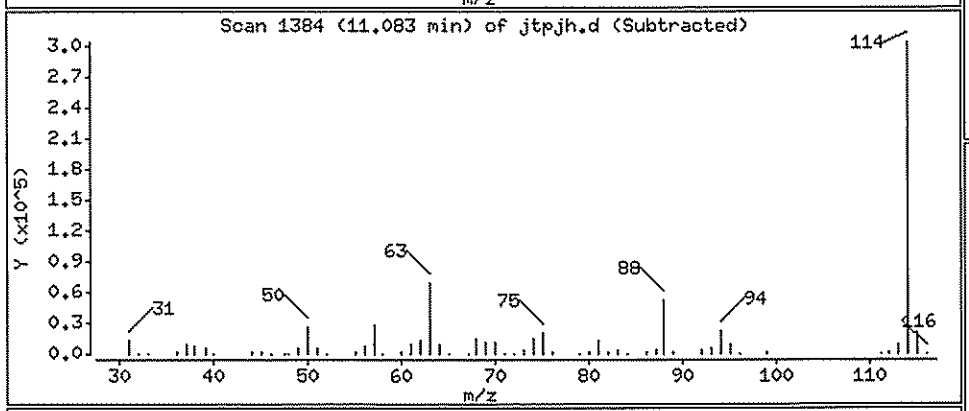
Sample Info: JTPJH1AD,,0,,,

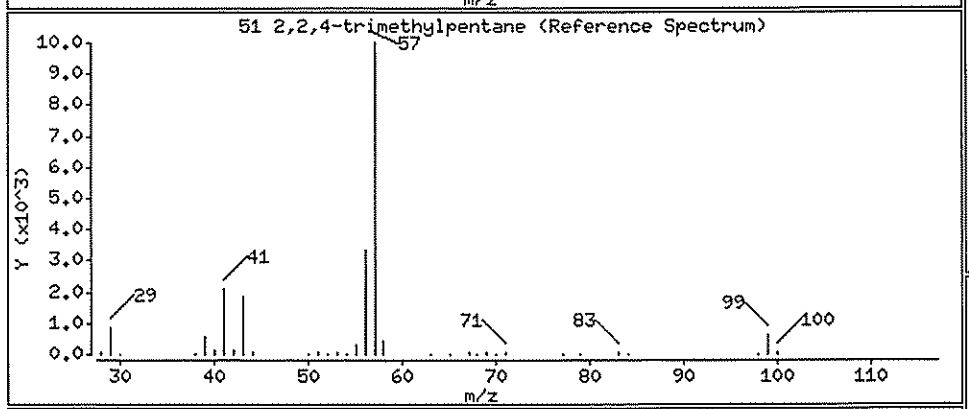
Purge Volume: 500.0 Operator: 7126

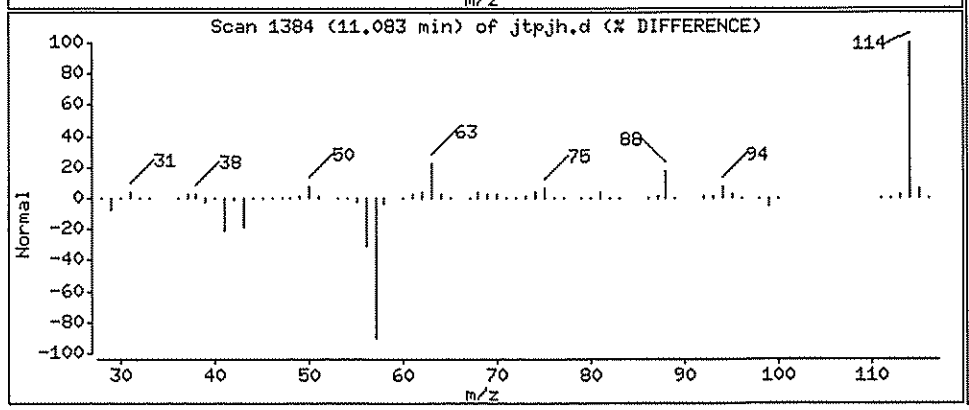
Column phase: Rtx-5 Column diameter: 0.32

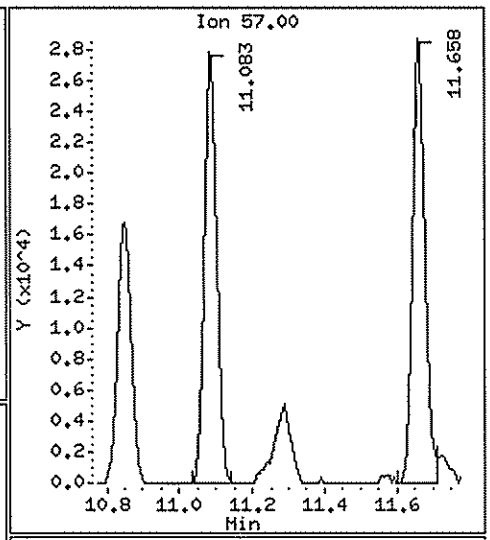
51 2,2,4-trimethylpentane Concentration: 0.2192 ppb(v/v)

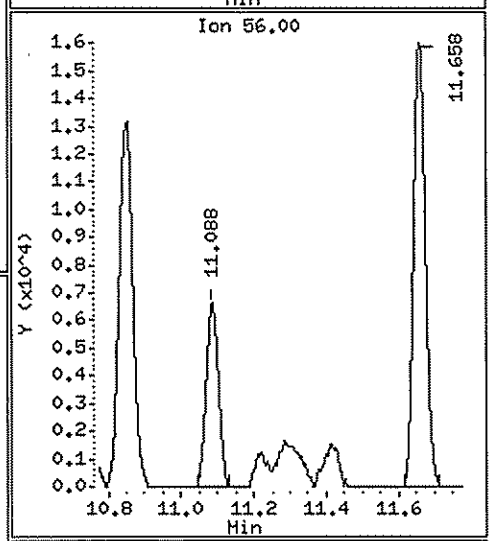


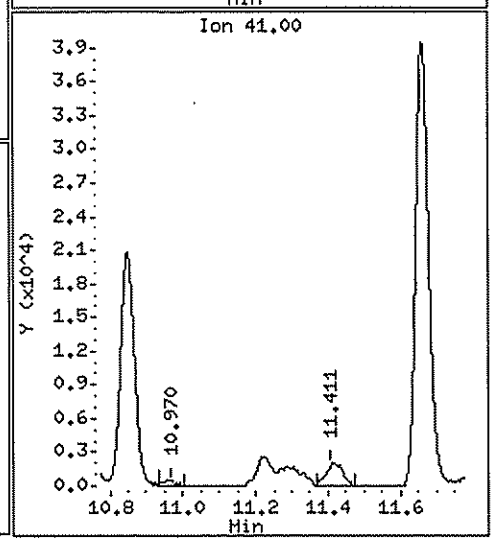












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d

Date : 17-APR-2007 06:41

Client ID: SV-15(A,A)

Instrument: mj.i

Sample Info: JTPJH1AD,,0,,,

Purge Volume: 500.0

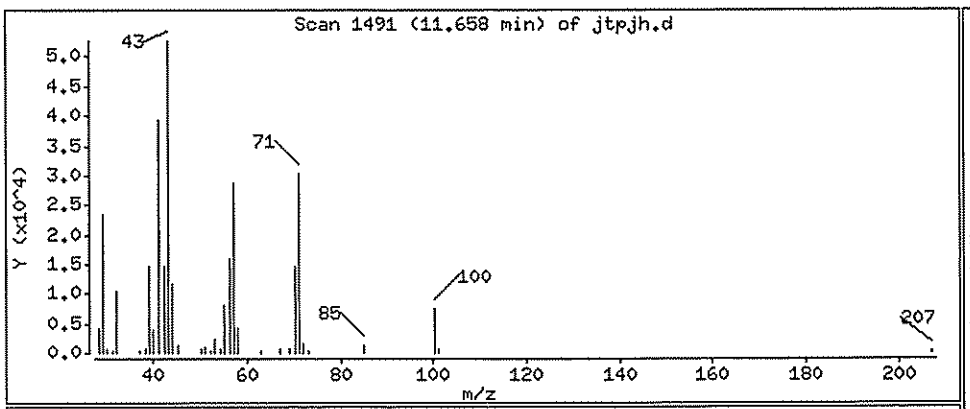
Operator: 7126

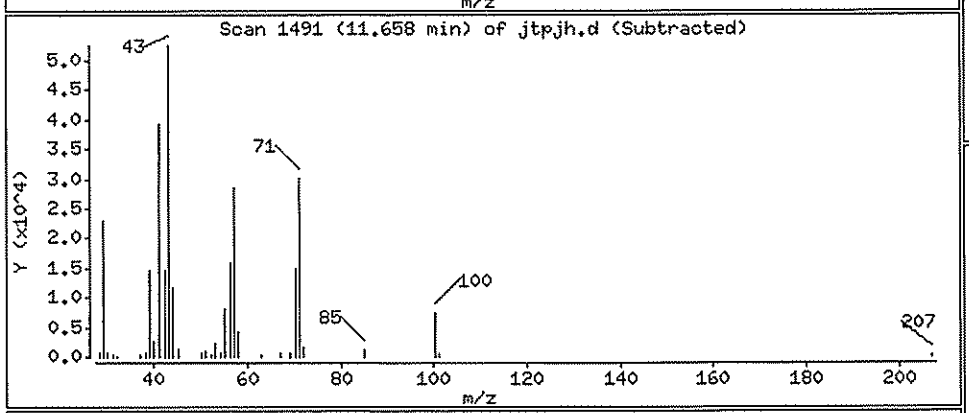
Column phase: Rtx-5

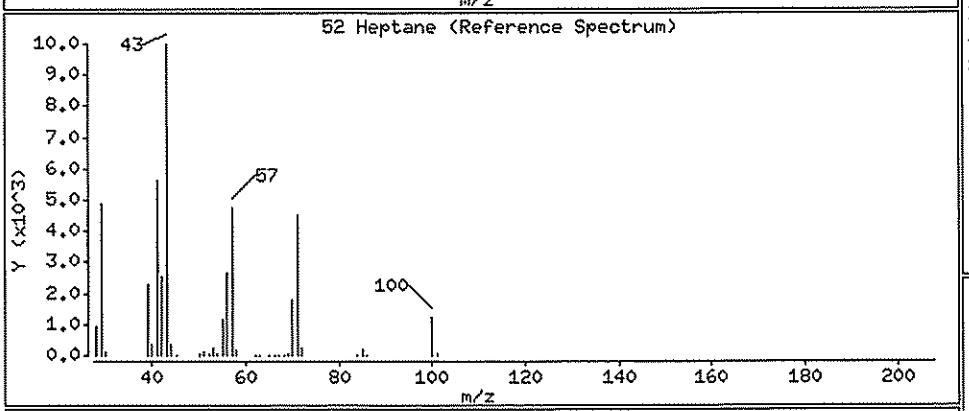
Column diameter: 0.32

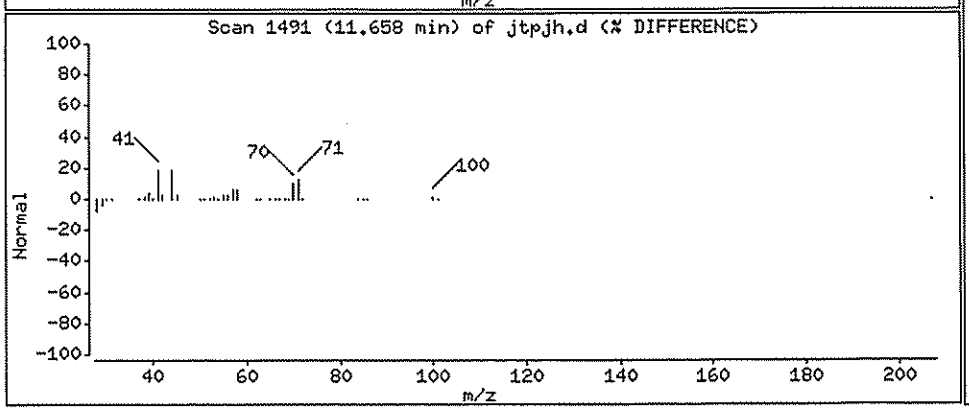
52 Heptane

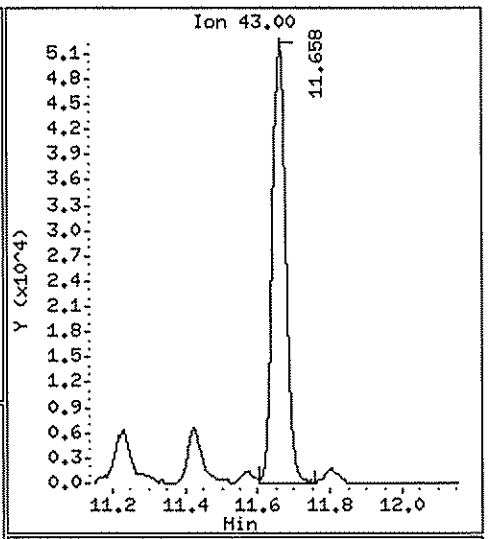
Concentration: 1.166 ppb(v/v)

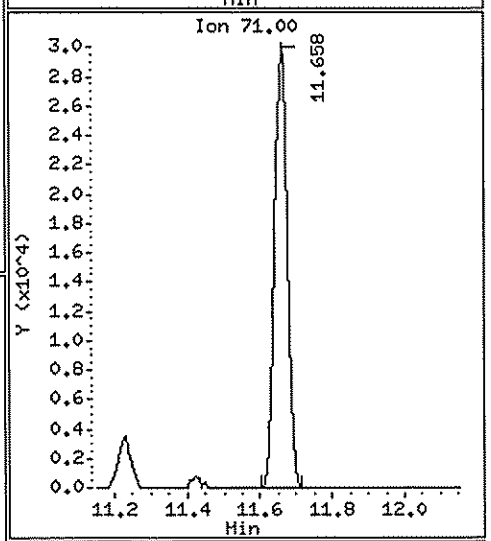


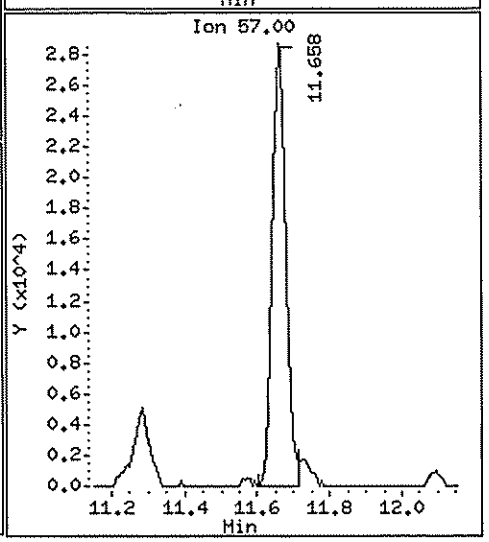












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d

Date : 17-APR-2007 06:41

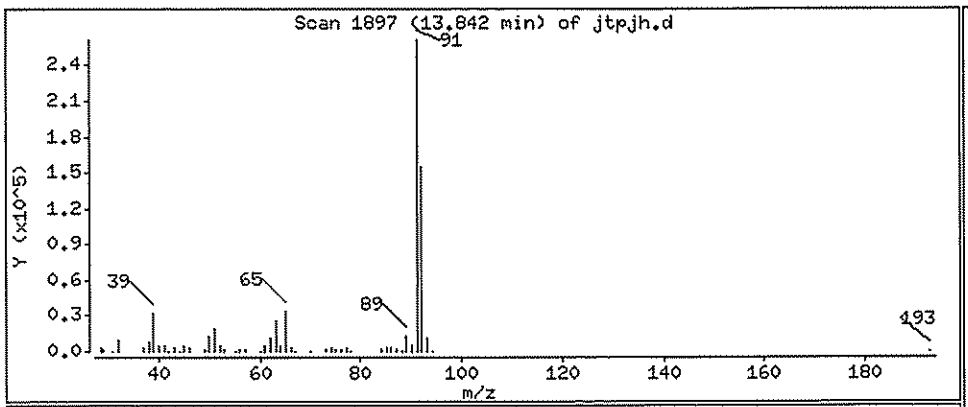
Client ID: SV-15(A.A) Instrument: mj.i

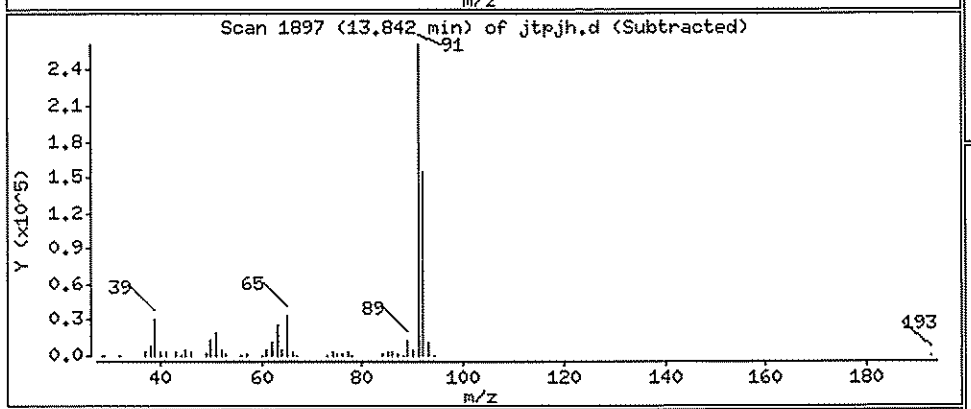
Sample Info: JTPJH1AD,,0,,,

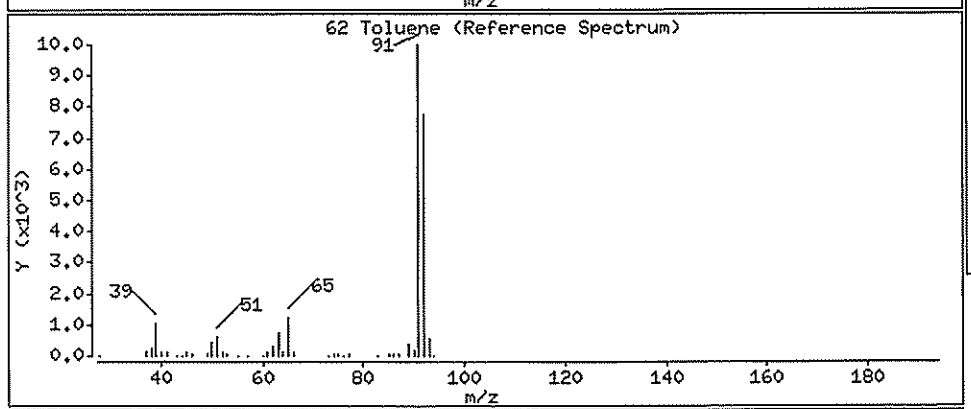
Purge Volume: 500.0 Operator: 7126

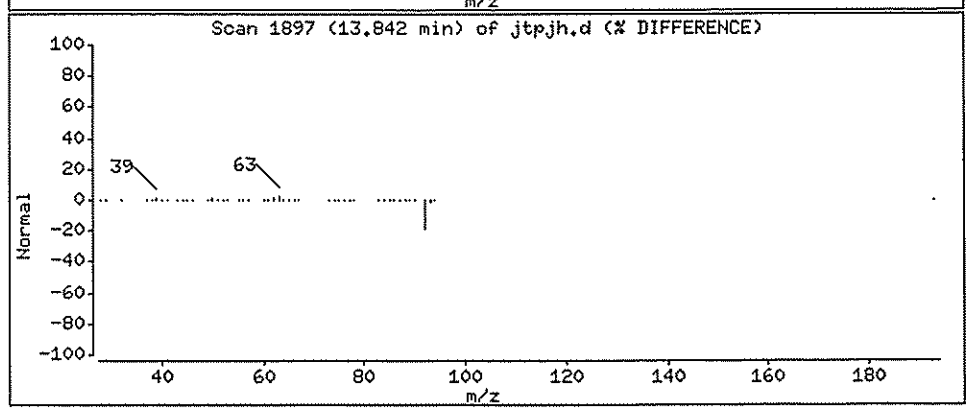
Column phase: Rtx-5 Column diameter: 0.32

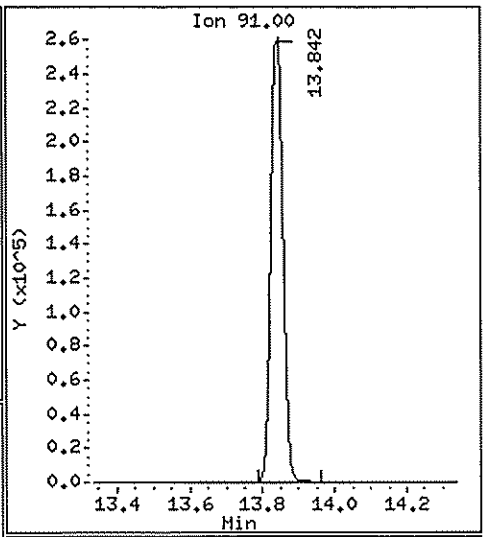
62 Toluene Concentration: 3.119 ppb(v/v)

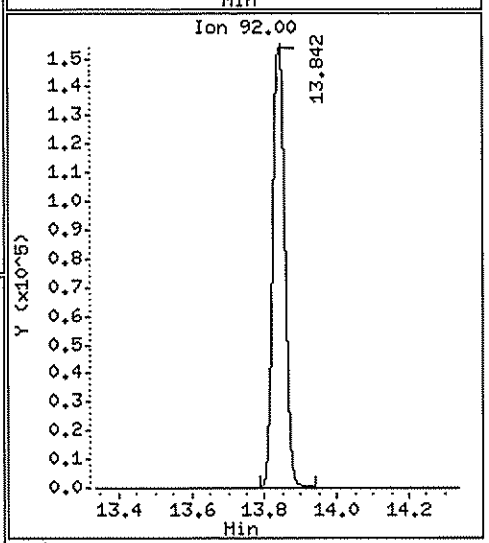












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d

Date : 17-APR-2007 06:41

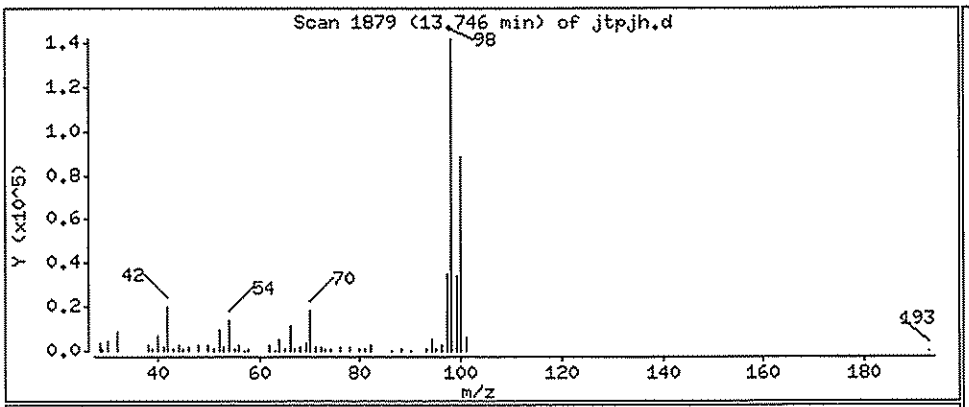
Client ID: SV-15(A,A) Instrument: mj.i

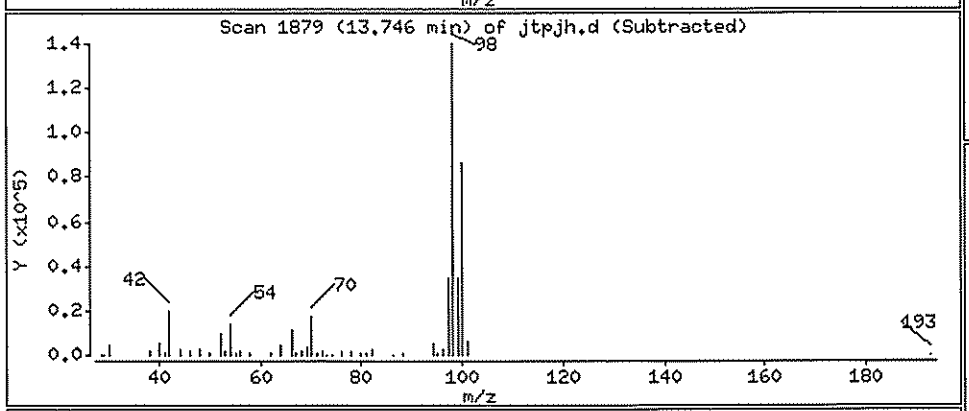
Sample Info: JTPJH1AD,,0,,,

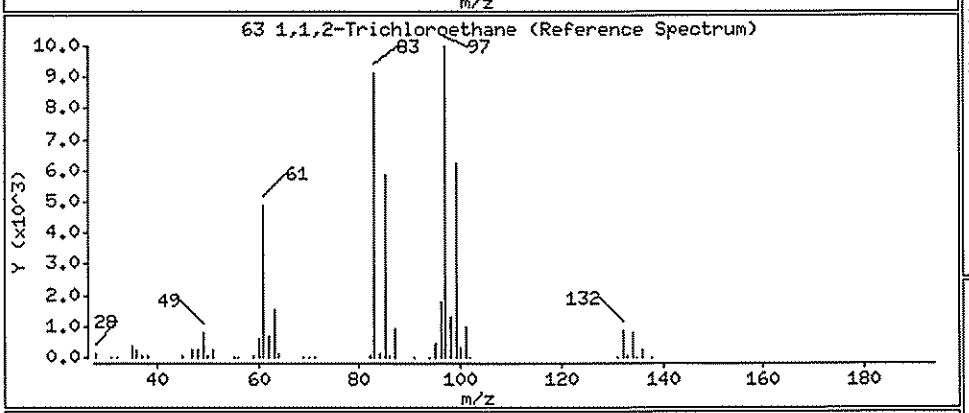
Purge Volume: 500.0 Operator: 7126

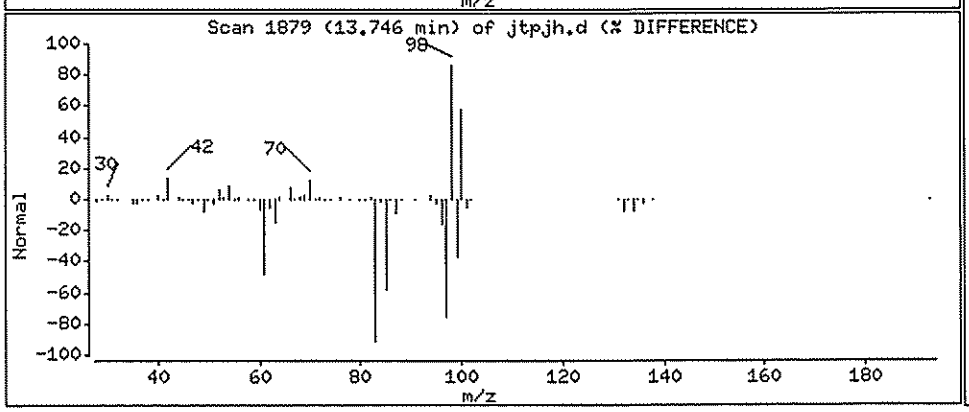
Column phase: Rtx-5 Column diameter: 0.32

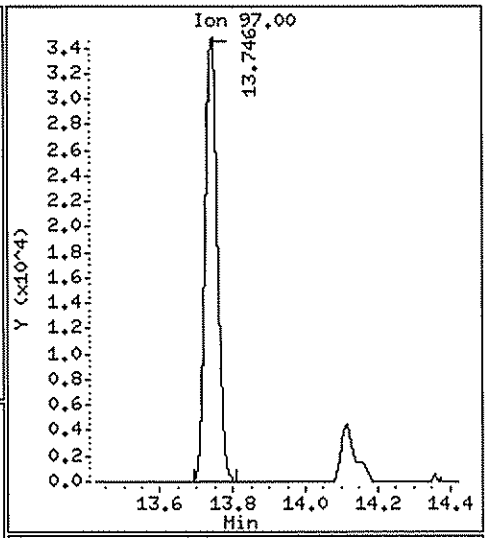
63 1,1,2-Trichloroethane Concentration: 1.306 ppb(v/v)

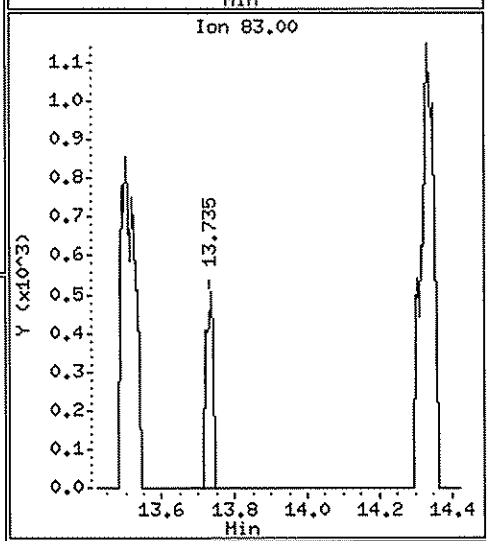


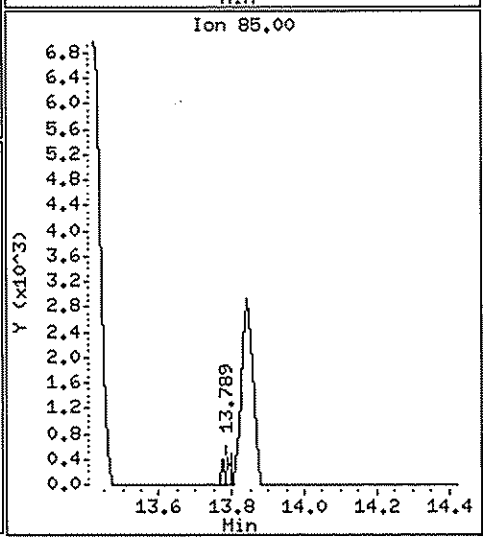












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d

Date : 17-APR-2007 06:41

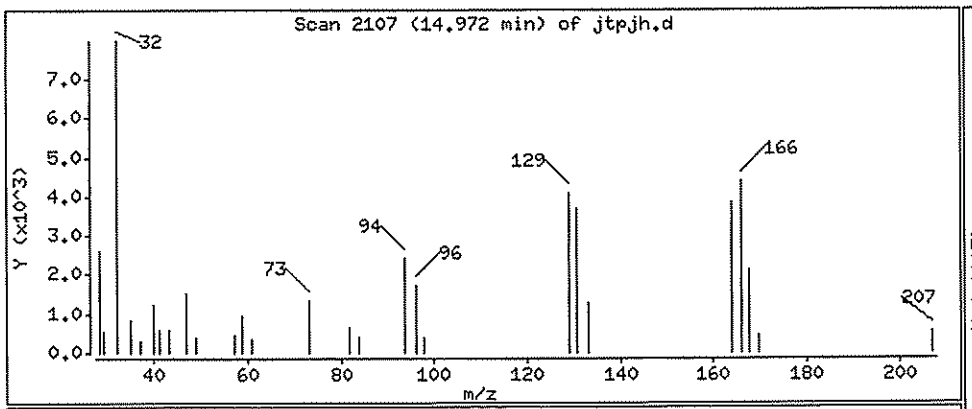
Client ID: SV-15(A,A) Instrument: mj.i

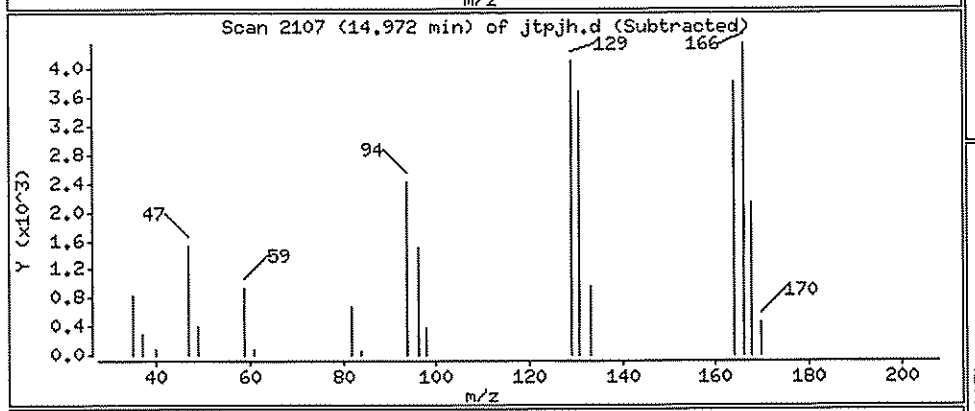
Sample Info: JTPJH1AD,,0,,,

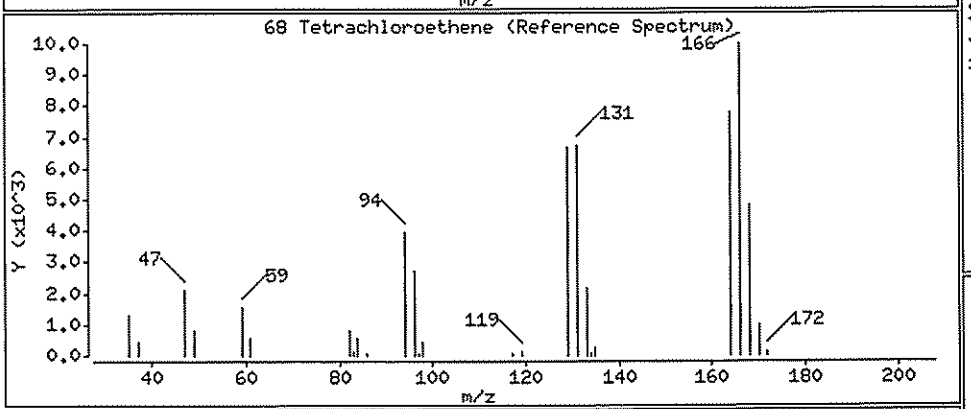
Purge Volume: 500.0 Operator: 7126

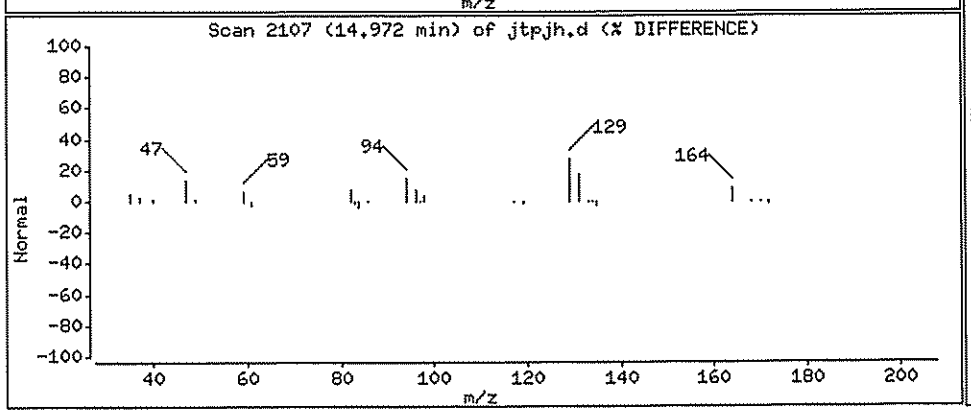
Column phase: Rtx-5 Column diameter: 0.32

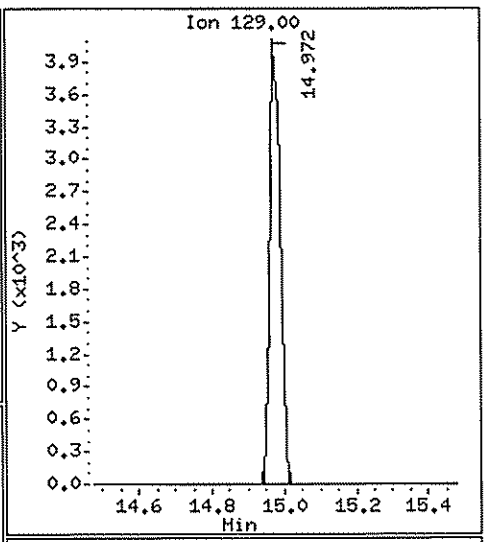
68 Tetrachloroethene Concentration: 0.09009 ppb(v/v)

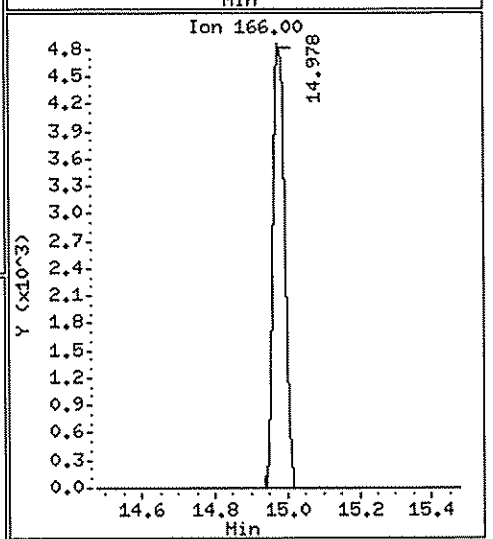


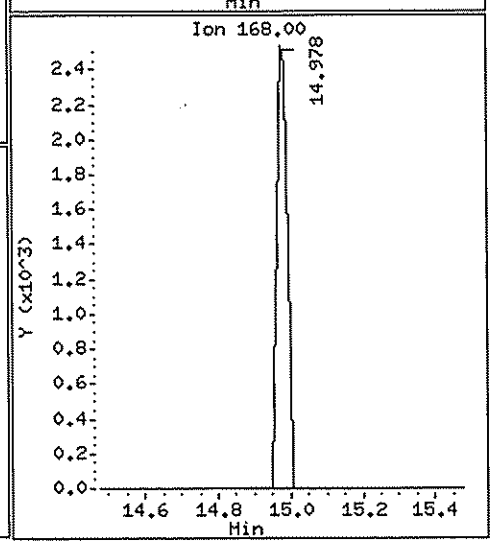












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d

Date : 17-APR-2007 06:41

Client ID: SV-15(A,A)

Instrument: mj.i

Sample Info: JTPJH1AD,,0,,,

Purge Volume: 500.0

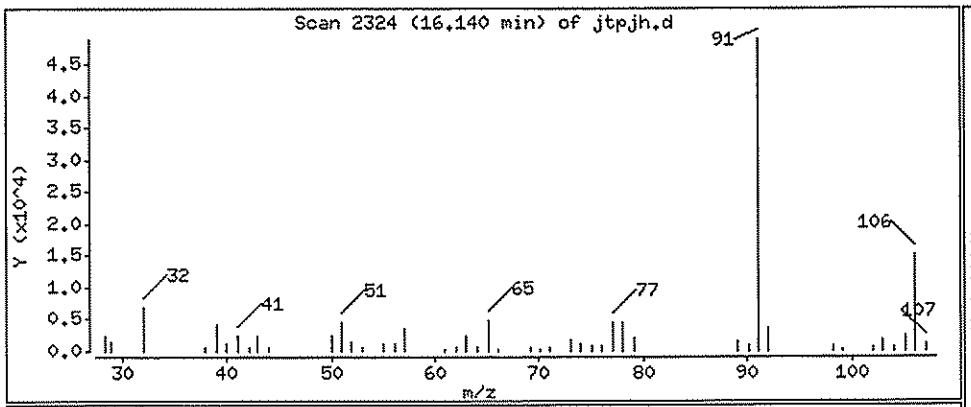
Operator: 7126

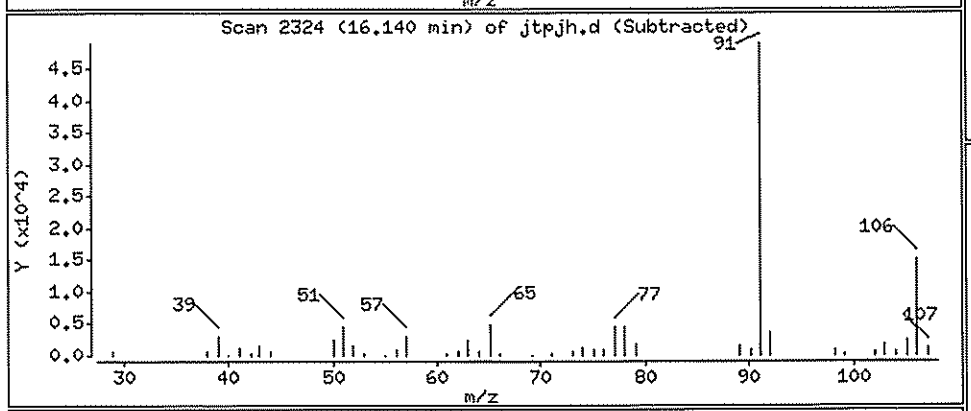
Column phase: Rtx-5

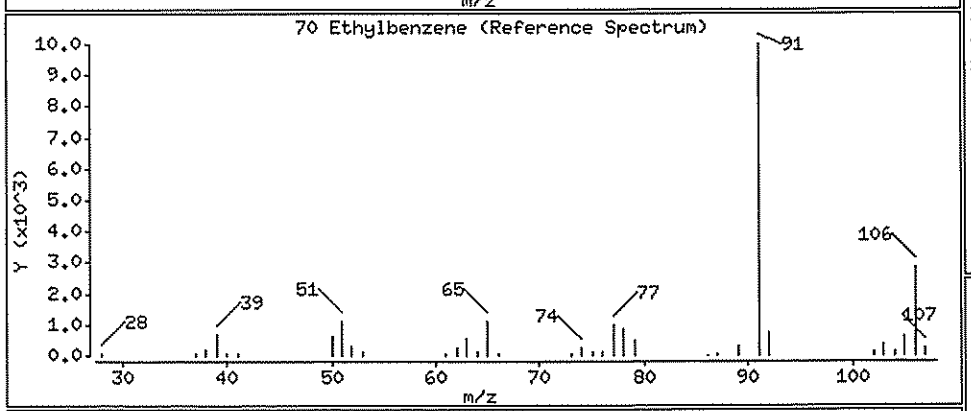
Column diameter: 0.32

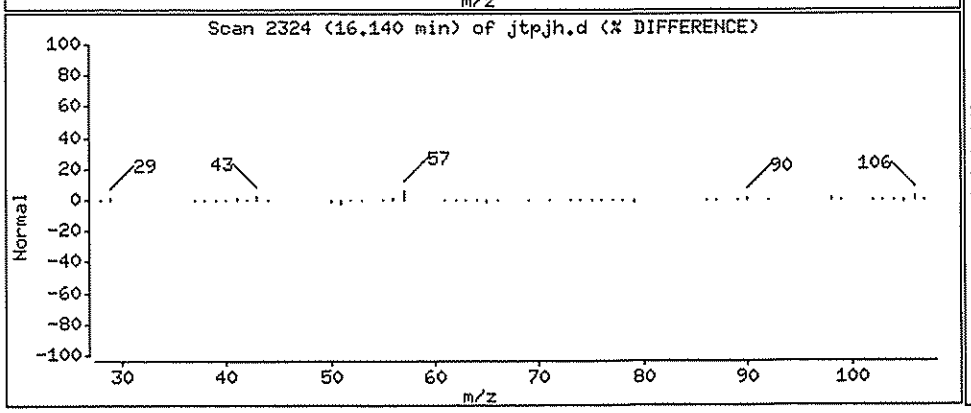
70 Ethylbenzene

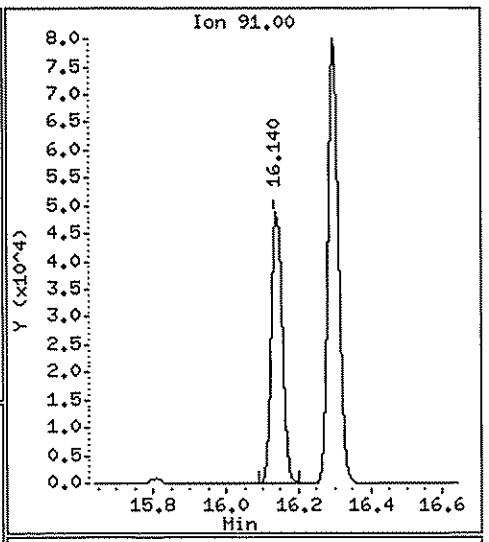
Concentration: 0.4454 ppb(v/v)

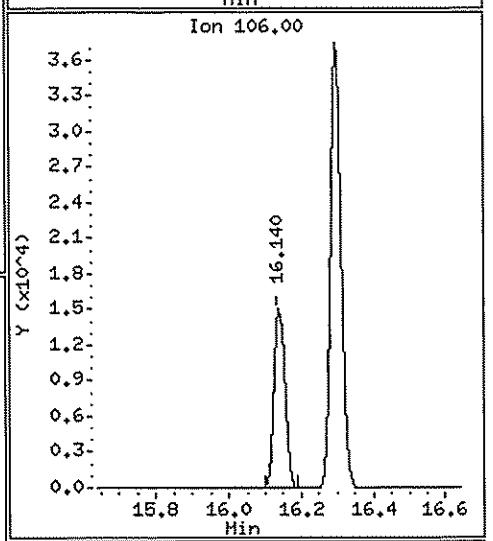


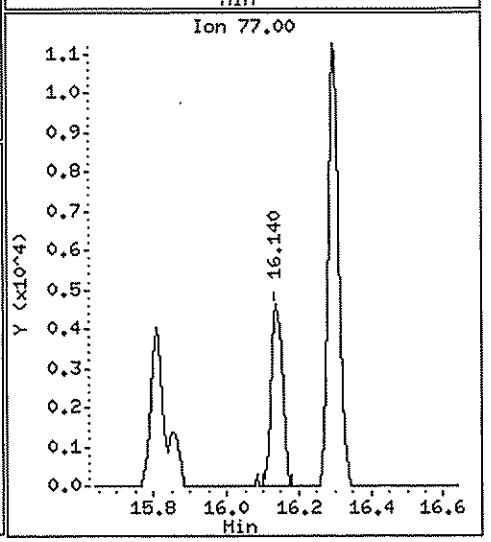












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d

Date : 17-APR-2007 06:41

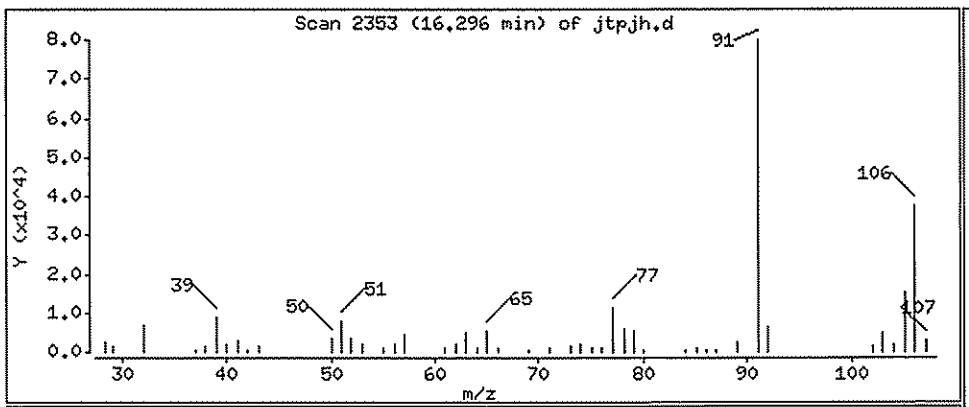
Client ID: SV-15(A,A) Instrument: mj.i

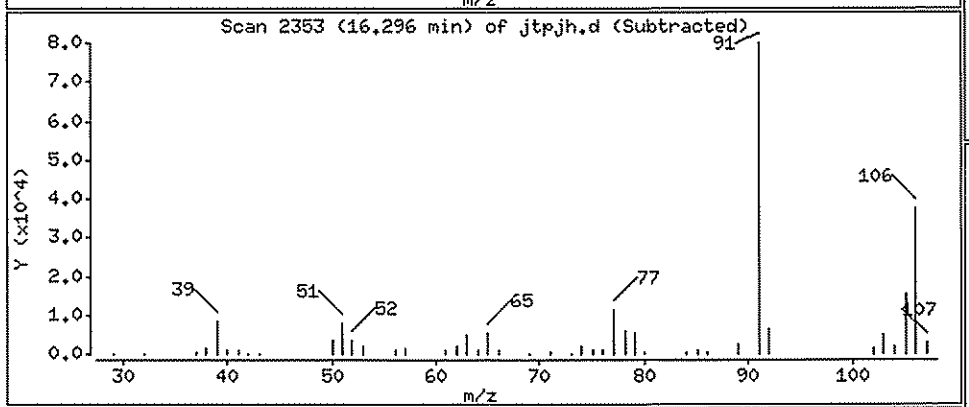
Sample Info: JTPJH1AD,,0,,,

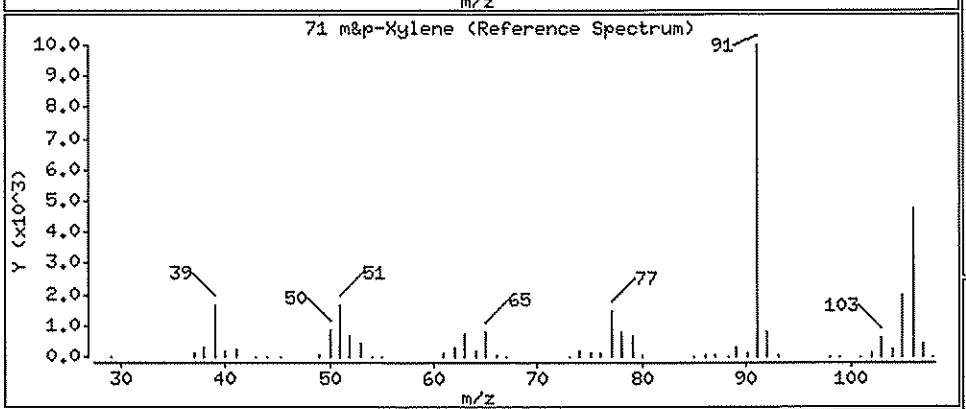
Purge Volume: 500.0 Operator: 7126

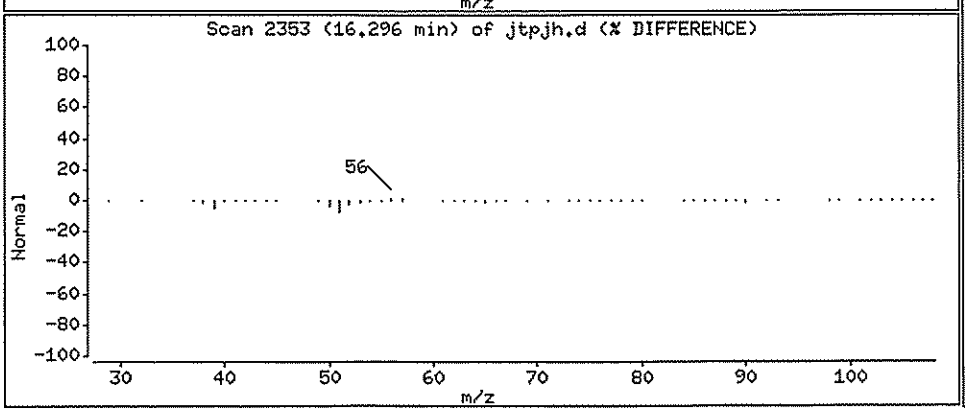
Column phase: Rtx-5 Column diameter: 0.32

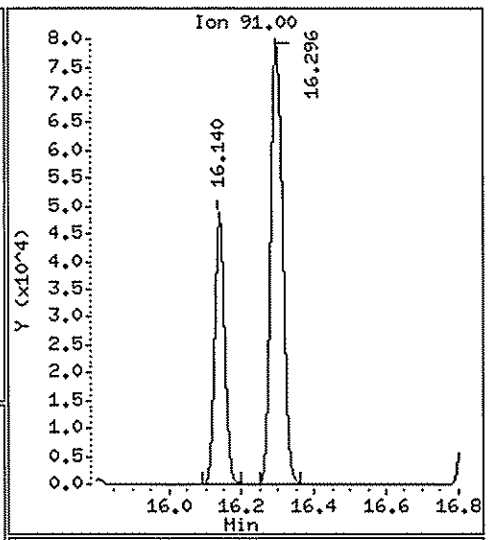
71 m&p-Xylene Concentration: 1.031 ppb(v/v)

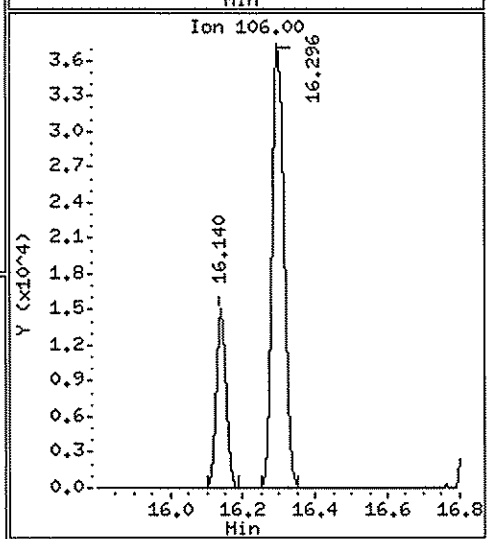


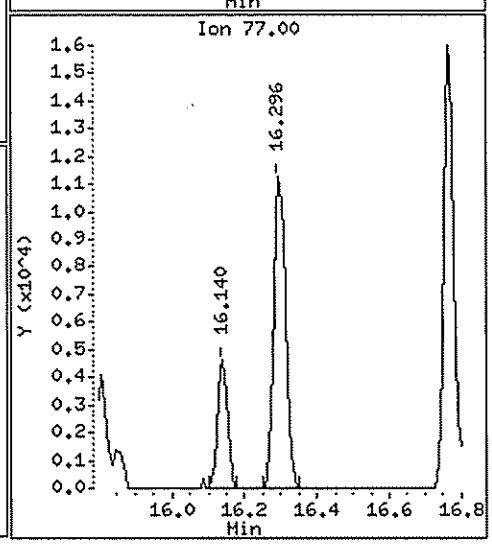












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d

Date : 17-APR-2007 06:41

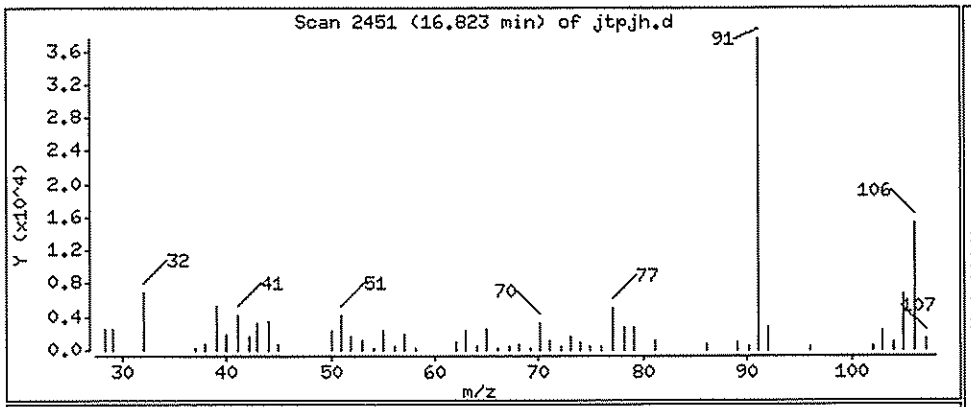
Client ID: SV-15(A,A) Instrument: mj.i

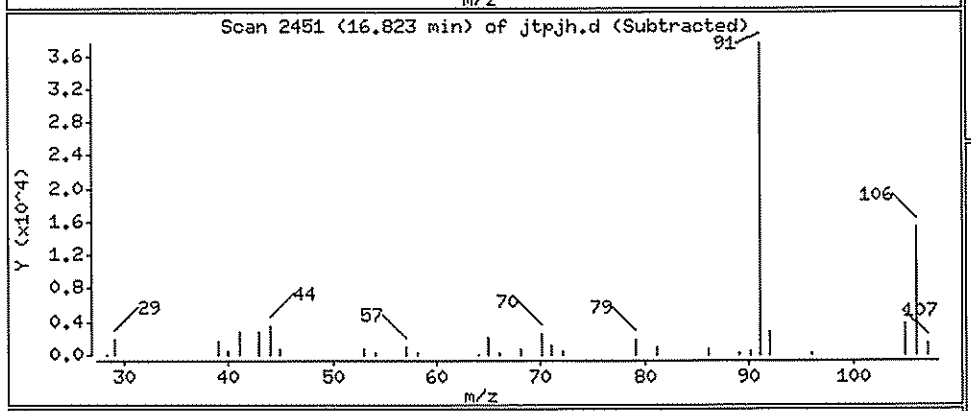
Sample Info: JTPJH1AD,,0,,,

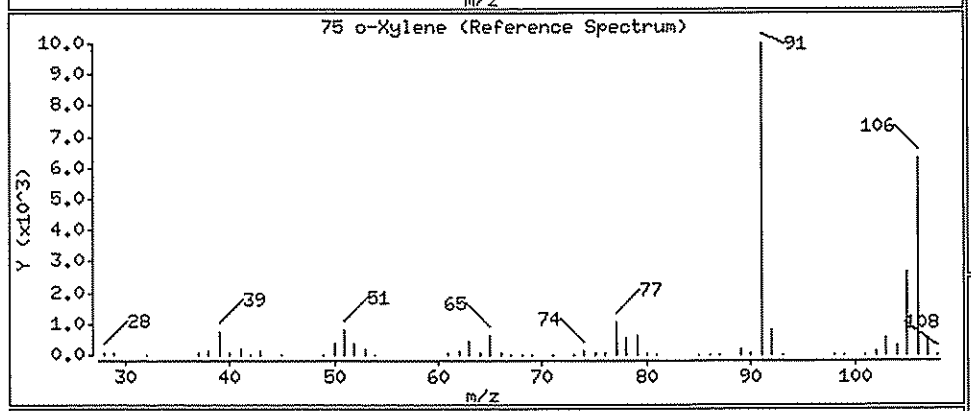
Purge Volume: 500.0 Operator: 7126

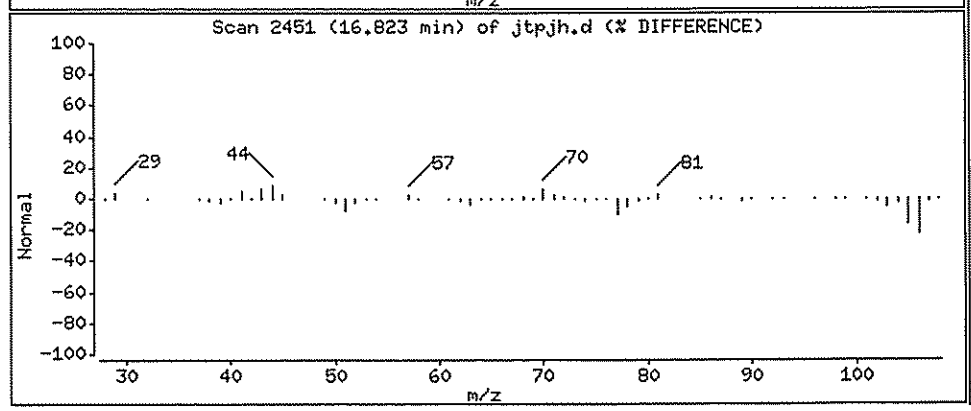
Column phase: Rtx-5 Column diameter: 0.32

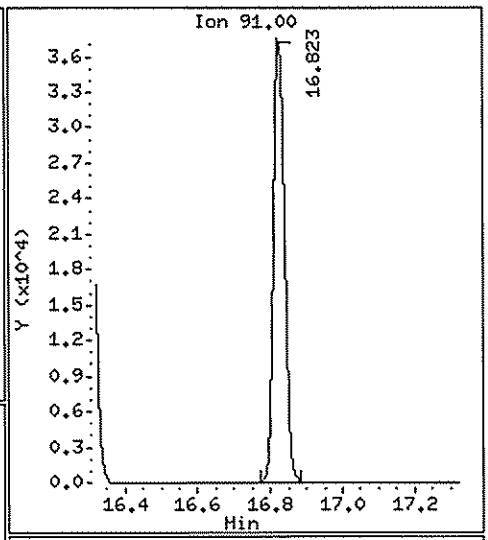
75 o-Xylene Concentration: 0.4046 ppb(v/v)

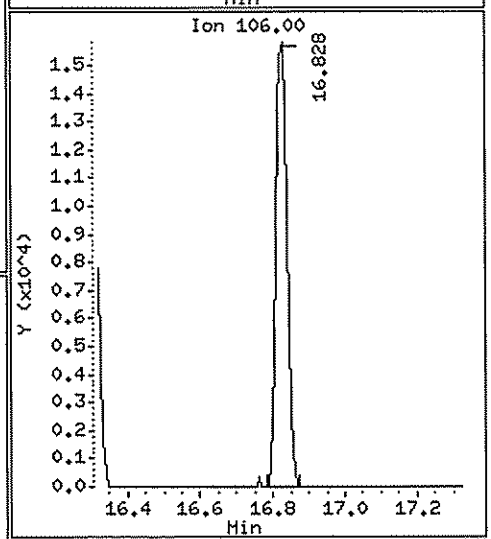


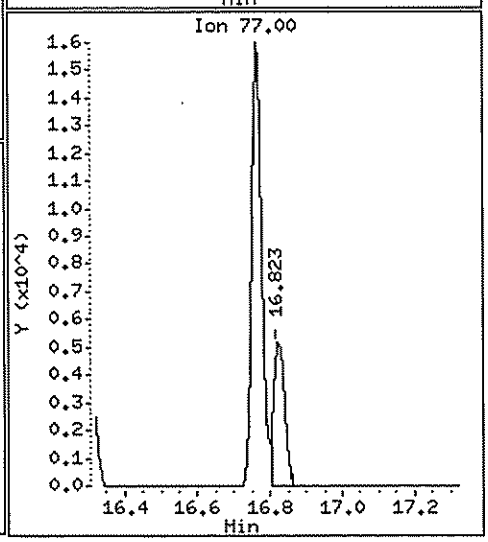












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d

Date : 17-APR-2007 06:41

Client ID: SV-15(A,A)

Instrument: mj.i

Sample Info: JTPJH1AD,,0,,,

Purge Volume: 500.0

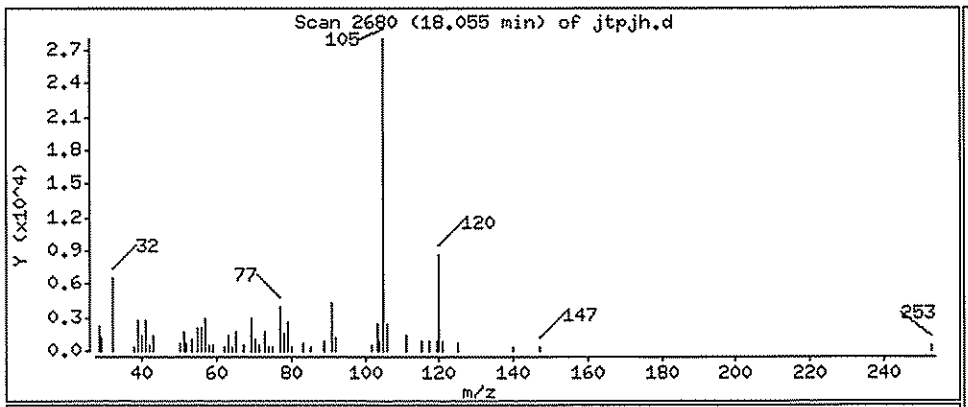
Operator: 7126

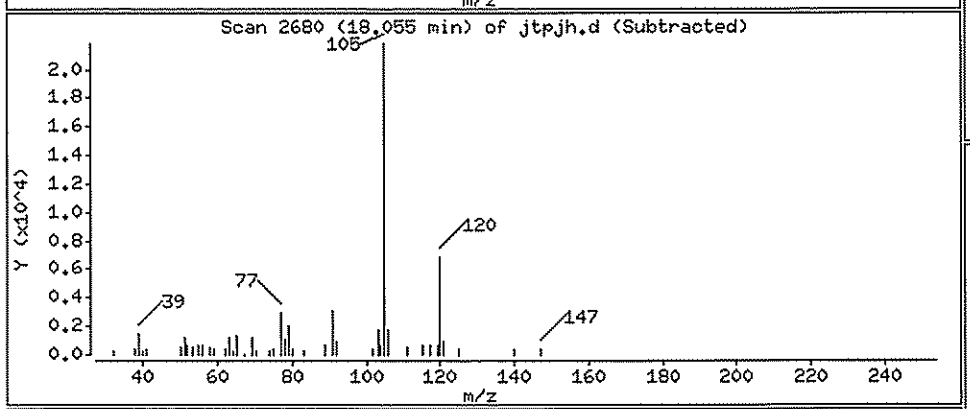
Column phase: Rtx-5

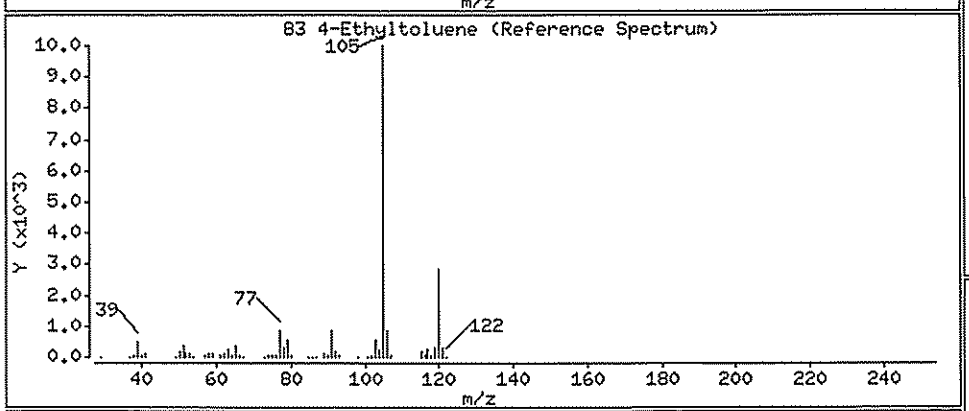
Column diameter: 0.32

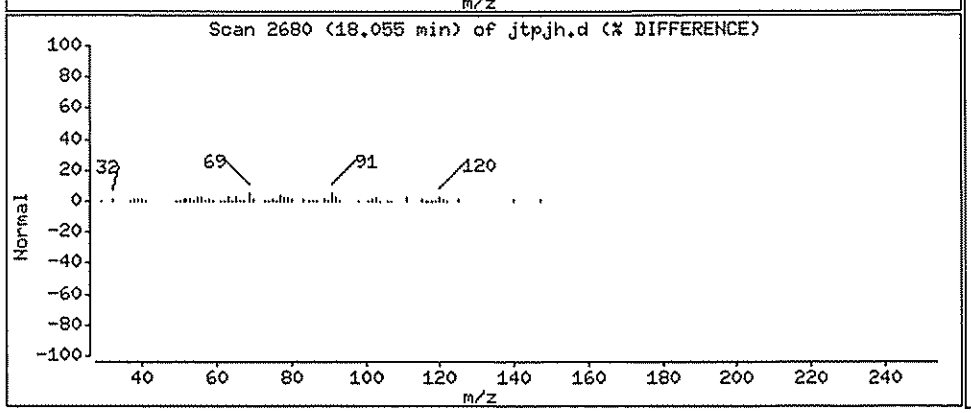
83 4-Ethyltoluene

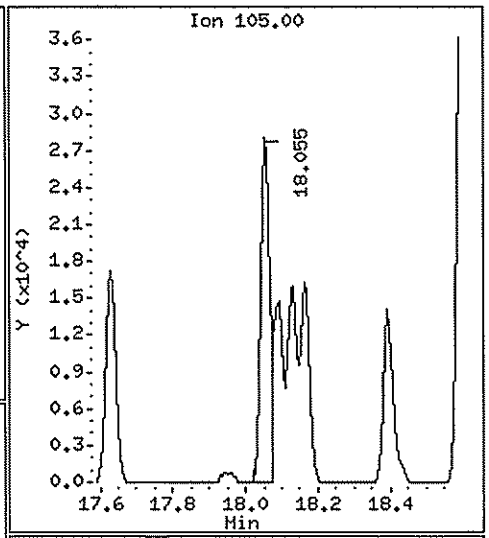
Concentration: 0.2206 ppb(v/v)

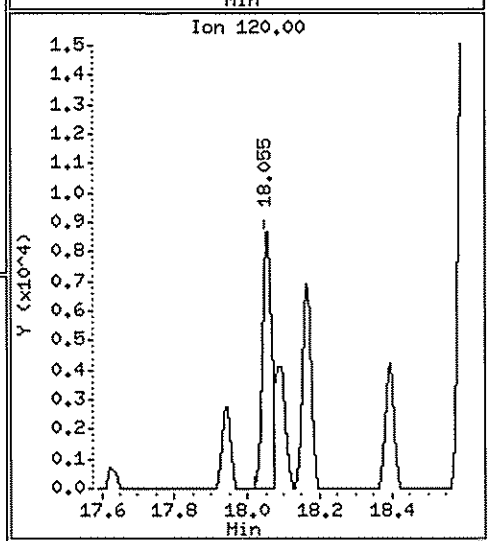


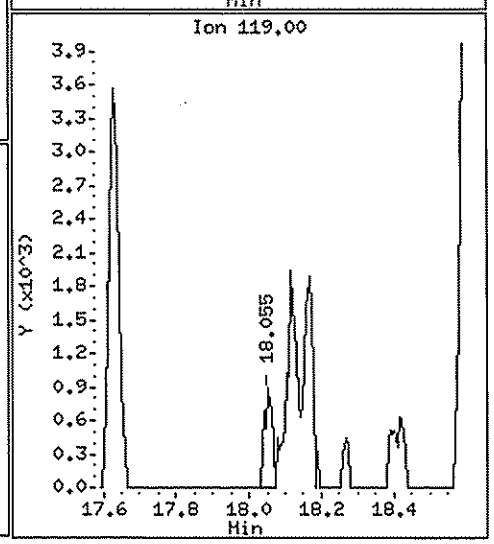












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjh.d

Date : 17-APR-2007 06:41

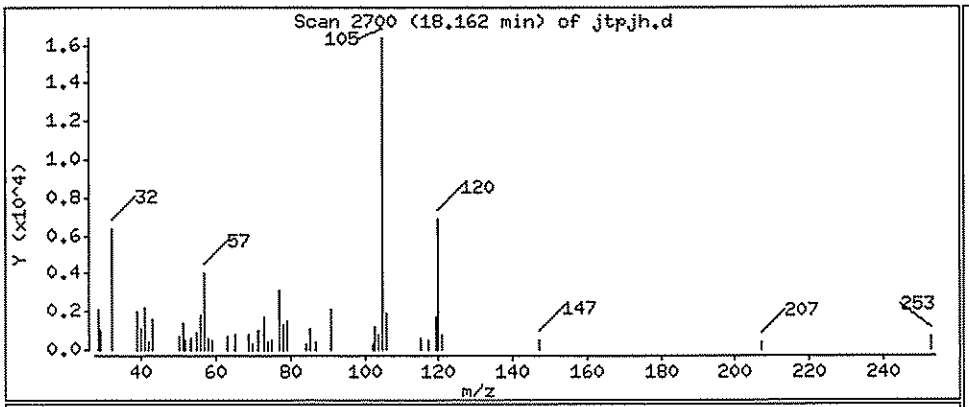
Client ID: SV-15(A.A) Instrument: mj.i

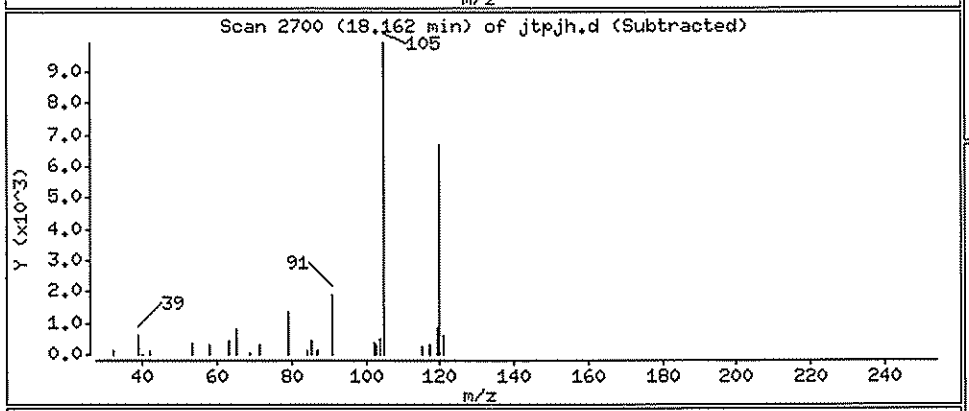
Sample Info: JTPJH1AD,,0,,,

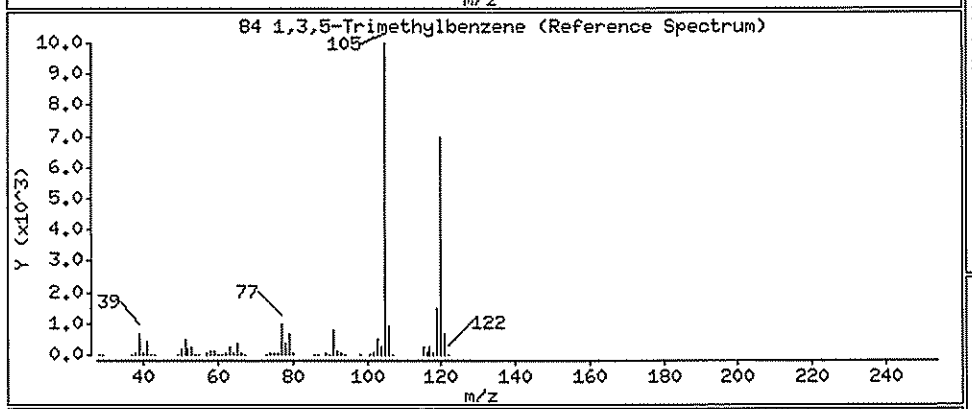
Purge Volume: 500.0 Operator: 7126

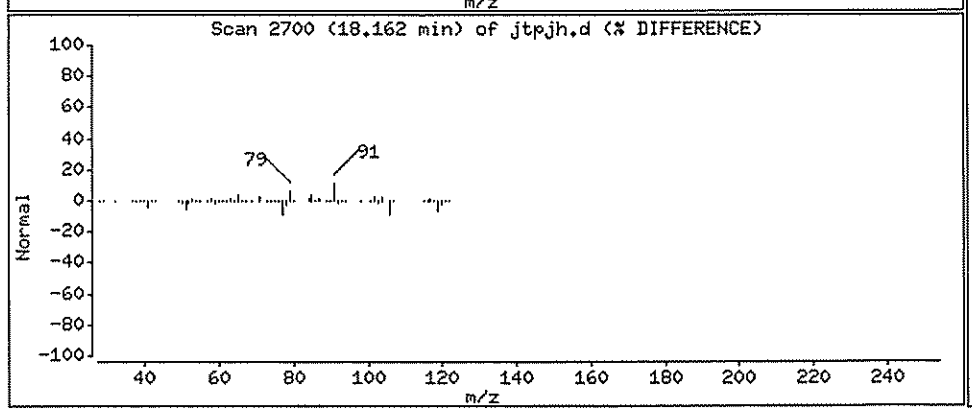
Column phase: Rtx-5 Column diameter: 0.32

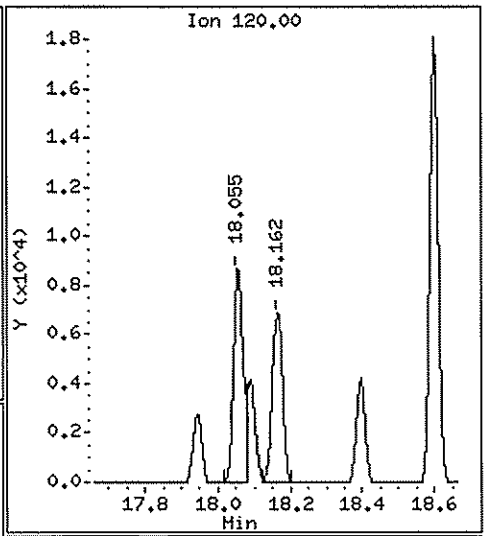
84 1,3,5-Trimethylbenzene Concentration: 0.1444 ppb(v/v)

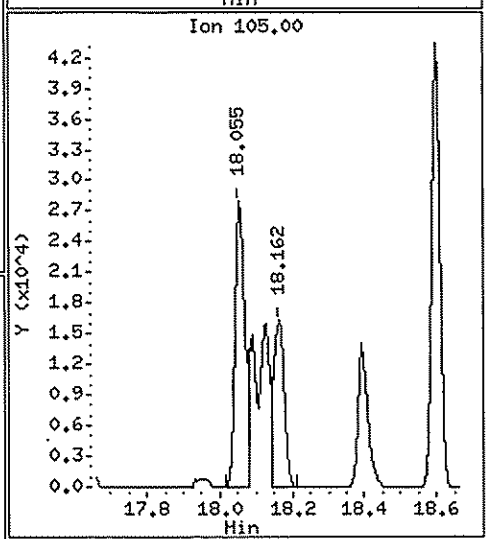


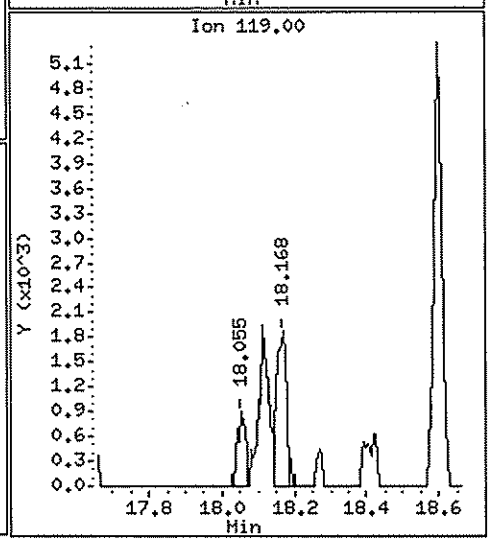












AKRF-White Plains

Client Sample ID: OUTDOOR 1 (A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 013 **Work Order #** JTPJM1AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7107200
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	ND	0.080	ND	0.35
Trichlorofluoromethane	**0.23**	**0.080**	**1.3**	**0.45**
n-Heptane	ND	0.20	ND	0.82
n-Hexane	ND	0.20	ND	0.70
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.15**	**0.080**	**0.48**	**0.26**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**0.26**	**0.080**	**0.97**	**0.30**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	ND	0.080	ND	0.35
Methyl tert-butyl ether	ND	0.40	ND	1.4
m-Xylene & p-Xylene	**0.096**	**0.080**	**0.42**	**0.35**
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	**0.082**	**0.040**	**0.51**	**0.25**
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	ND	0.20	ND	0.69
Dichlorodifluoromethane	**0.45**	**0.080**	**2.2**	**0.40**
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37

TO-14 _rev5.rpt version 5.0.103 10/12/2006

AKRF-White Plains

Client Sample ID: OUTDOOR 1 (A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 013 **Work Order #** JTPJM1AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	108	70 - 130
Toluene-d8	103	70 - 130
4-Bromofluorobenzene	100	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TO-14 _rev5.rpt version 5.0.103 10/12/2006

Data File: /var/chem/gcms/mj.i/J041607.b/jtpjm.d
Report Date: 19-Apr-2007 19:00

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041607.b/jtpjm.d
Lab Smp Id: JTPJM1AD Client Smp ID: OUTDOOR 1 (A.A)
Inj Date : 17-APR-2007 07:23
Operator : 7126 Inst ID: mj.i
Smp Info : JTPJM1AD,,0,,,
Misc Info : J041607,TO15,magna.sub,,,500 ML
Comment :
Method : /var/chem/gcms/mj.i/J041607.b/TO15.m
Meth Date : 19-Apr-2007 17:51 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: magna.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

04 20

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.900	8.899	(1.000)	177198	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.084	11.083	(1.000)	676853	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.807	15.806	(1.000)	594149	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.906	9.905	(0.894)	186136	4.32174	4.322
$ 5 Toluene-d8	98	13.725	13.724	(0.868)	593454	4.10449	4.104
$ 6 4-Bromofluorobenzene	95	17.443	17.441	(1.103)	477819	3.98545	3.985
8 Dichlorodifluoromethane	85	3.779	3.778	(0.425)	95531	0.44951	0.4495
20 Trichlorofluoromethane	101	5.269	5.262	(0.592)	48426	0.22891	0.2289
49 Benzene	78	10.546	10.534	(0.951)	24376	0.14947	0.1495
50 Carbon Tetrachloride	117	10.562	10.556	(1.187)	13078	0.08182	0.08182
51 2,2,4-trimethylpentane	57	11.084	11.277	(1.000)	59982	0.22297	~~0.2230~~
62 Toluene	91	13.844	13.837	(0.876)	39710	0.25672	0.2567
71 m&p-Xylene	91	16.297	16.301	(1.031)	13668	0.09644	0.09644

KM
4-19-07

Data File: /var/chem/gcms/mj.i/J041607.b/jtpjm.d
Report Date: 19-Apr-2007 19:00

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jtpjm.d
Lab Smp Id: JTPJM1AD
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,magna.sub,,,500 ML

Calibration Date: 16-APR-2007
Calibration Time: 12:57
Client Smp ID: OUTDOOR 1 (A.A)
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	185541	110397	260685	177198	-4.50
2 1,4-Difluorobenze	738195	439226	1037164	676853	-8.31
3 Chlorobenzene-d5	652787	388408	917166	594149	-8.98

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.90	8.57	9.23	8.90	0.01
2 1,4-Difluorobenze	11.08	10.75	11.41	11.08	0.01
3 Chlorobenzene-d5	15.81	15.48	16.14	15.81	0.01

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J041607.b/jtpjm.d
Report Date: 19-Apr-2007 19:00

STL Knoxville

RECOVERY REPORT

Client Name: AKRF-White Plains
Sample Matrix: GAS
Lab Smp Id: JTPJM1AD
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: magna.sub
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,magna.sub,,,500 ML

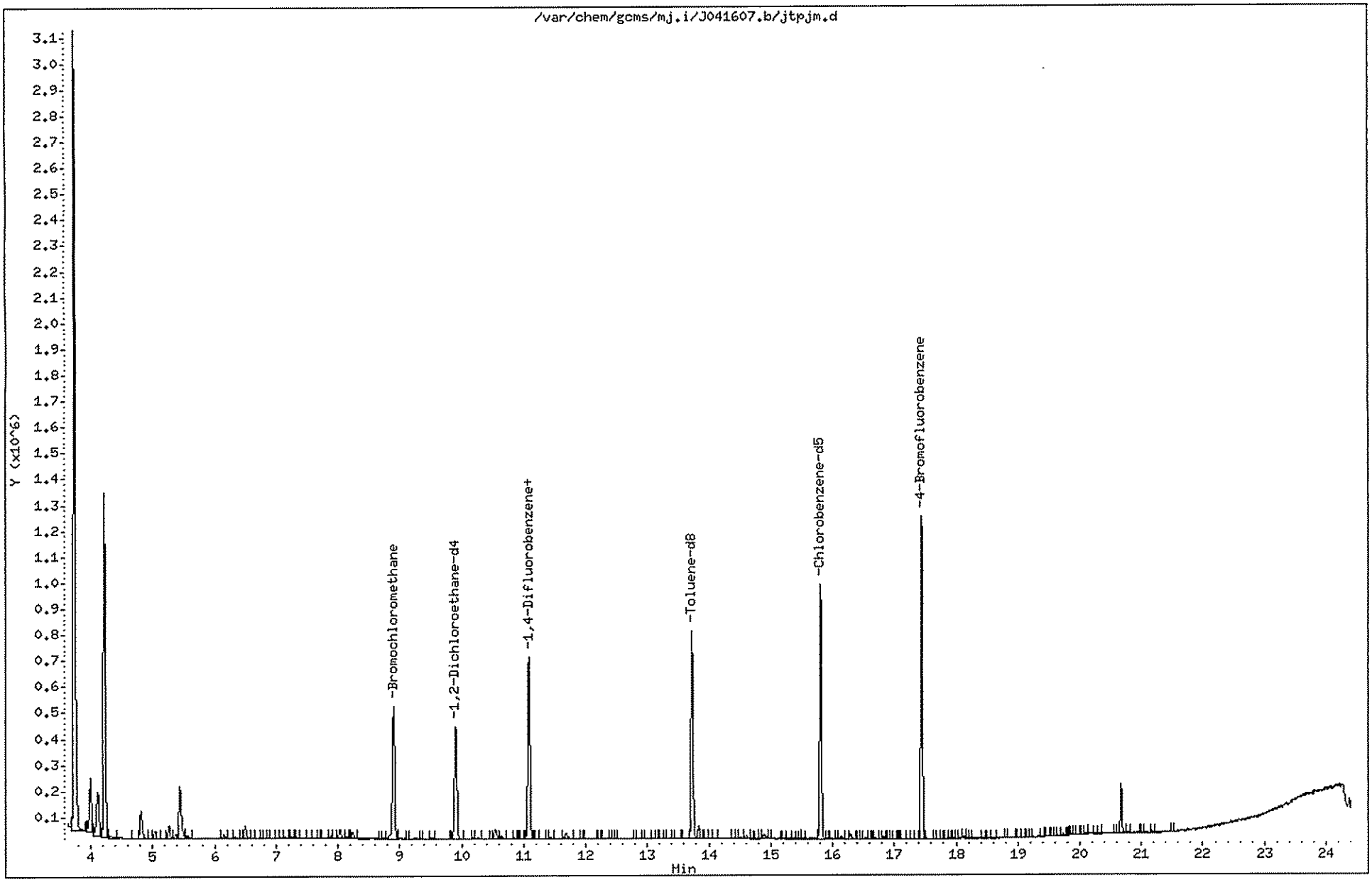
Client SDG: H7D110232
Fraction: OTHER
Client Smp ID: OUTDOOR 1 (A.A)
Operator: 7126
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	4.000	4.322	108.04	70-130
$ 5 Toluene-d8	4.000	4.104	102.61	70-130
$ 6 4-Bromofluorobenze	4.000	3.985	99.64	70-130

Data File: /var/chem/gcms/mj.i/J041607.b/jtpjm.d
Date : 17-APR-2007 07:23
Client ID: OUTDOOR 1 (A.A)
Sample Info: JTPJM1AD,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J041607.b/jtpjm.d

Date : 17-APR-2007 07:23

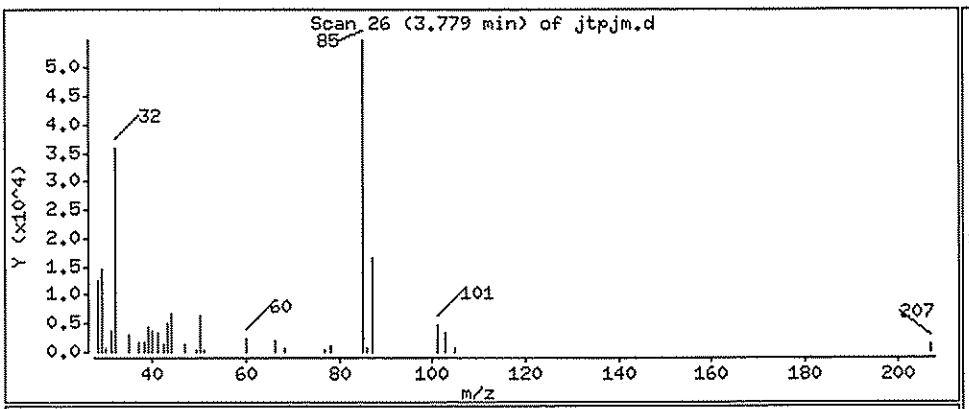
Client ID: OUTDOOR 1 (A.A) Instrument: mj.i

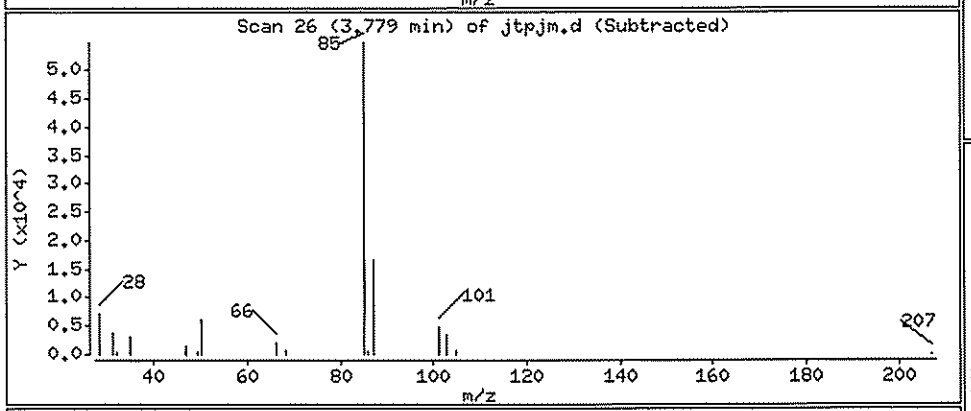
Sample Info: JTPJM1AD,,0,,,

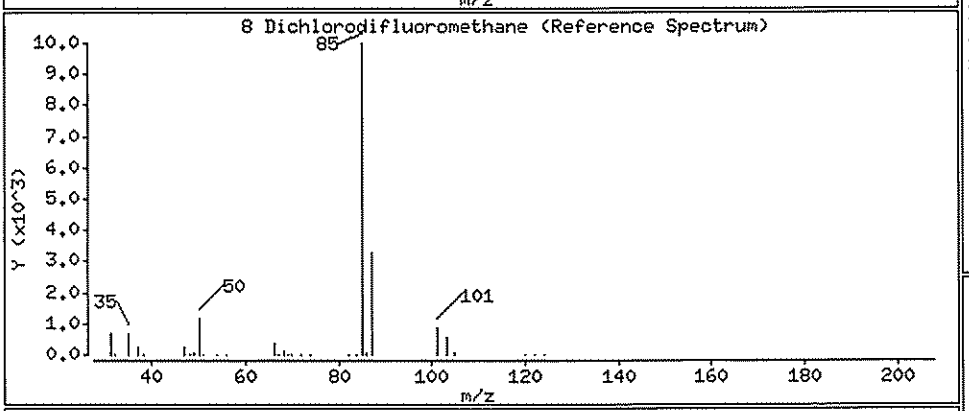
Purge Volume: 500.0 Operator: 7126

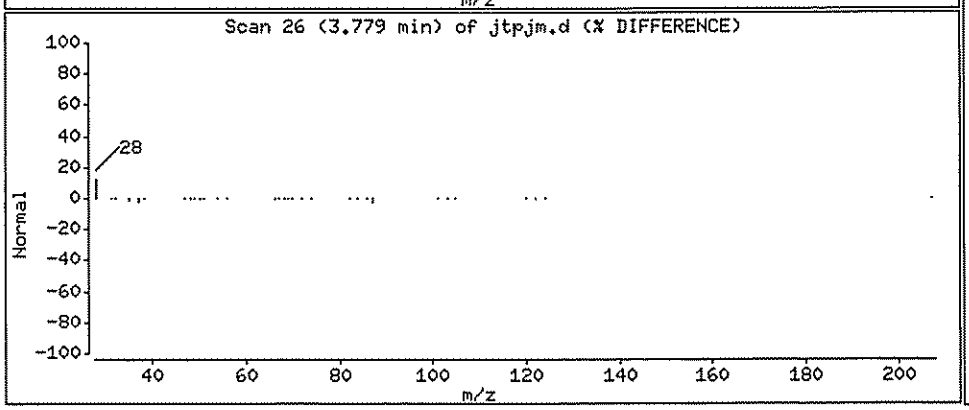
Column phase: Rtx-5 Column diameter: 0.32

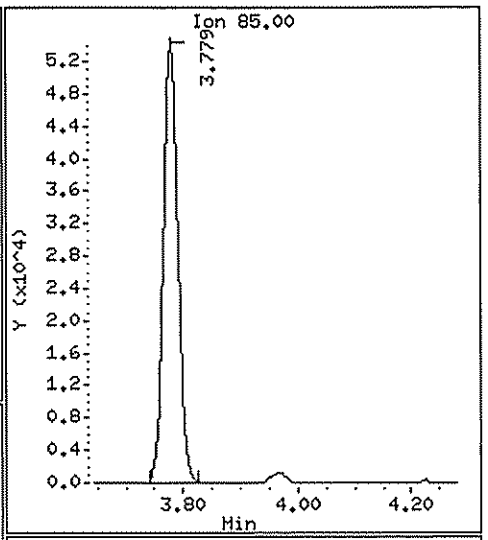
8 Dichlorodifluoromethane Concentration: 0.4495 ppb(v/v)

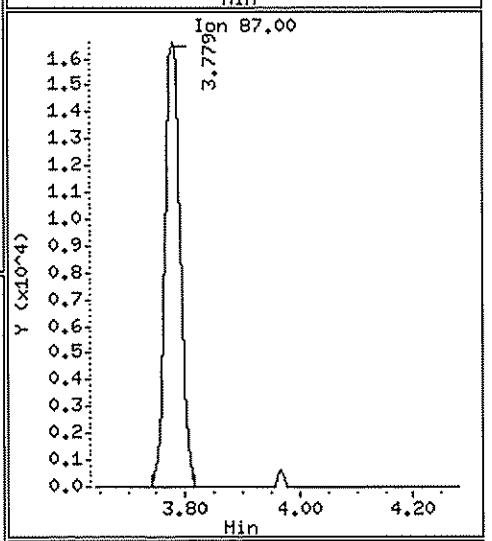


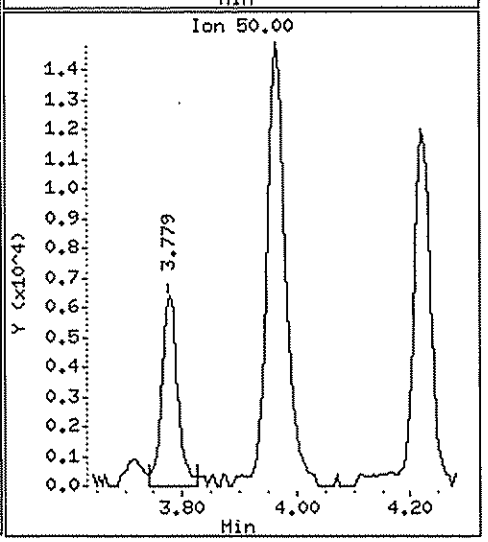












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjm.d

Date : 17-APR-2007 07:23

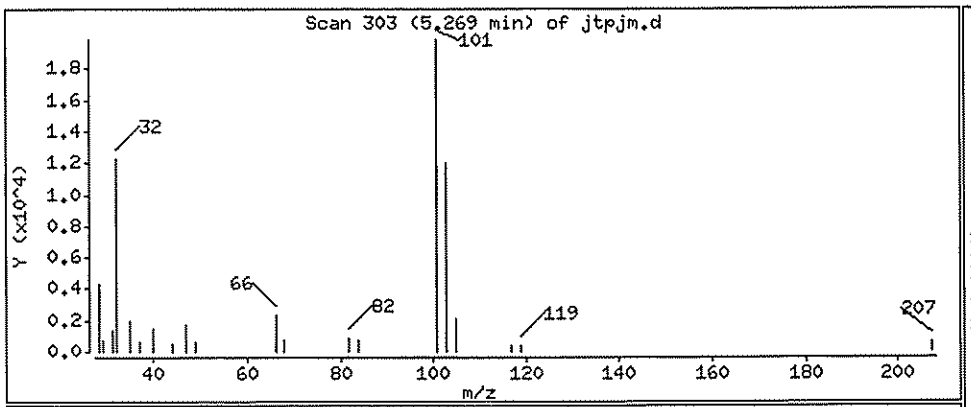
Client ID: OUTDOOR 1 (A.A) Instrument: mj.i

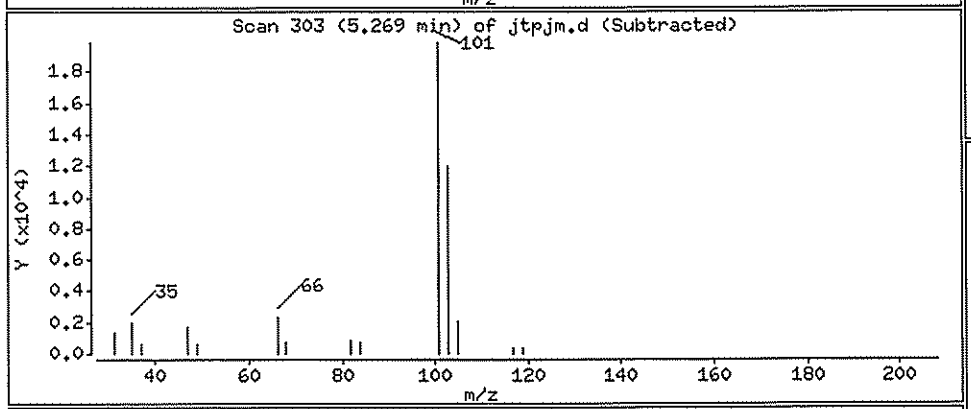
Sample Info: JTPJM1AD,,0,,,

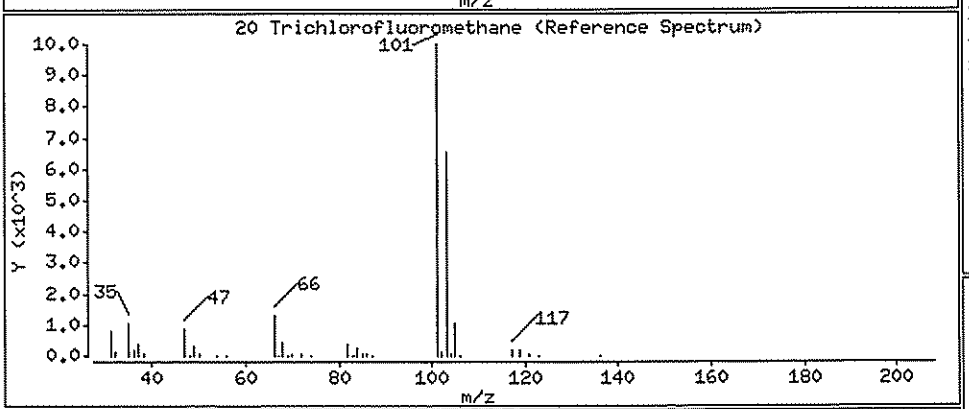
Purge Volume: 500.0 Operator: 7126

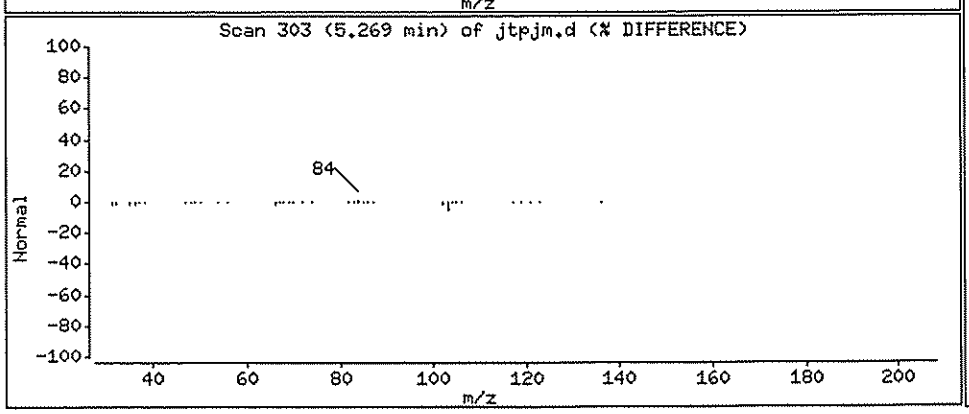
Column phase: Rtx-5 Column diameter: 0.32

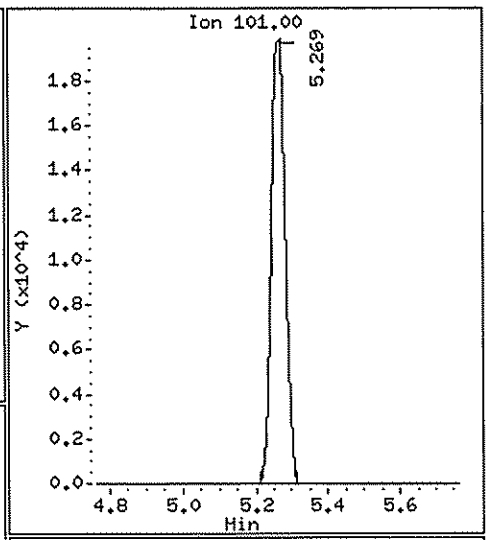
20 Trichlorofluoromethane Concentration: 0.2289 ppb(v/v)

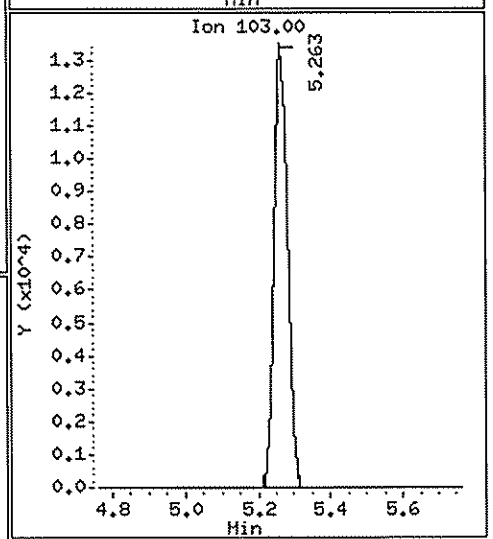


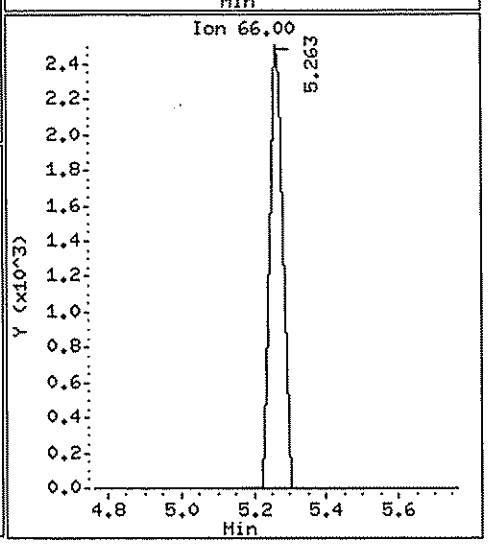












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjm.d

Date : 17-APR-2007 07:23

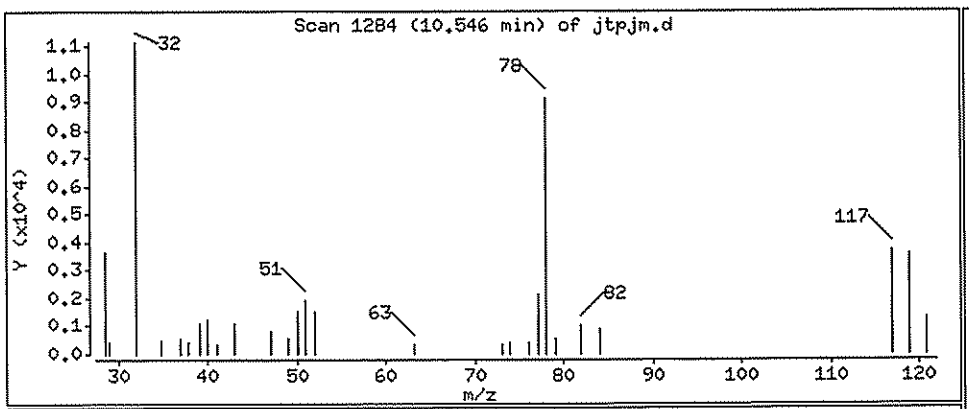
Client ID: OUTDOOR 1 (A.A) Instrument: mj.i

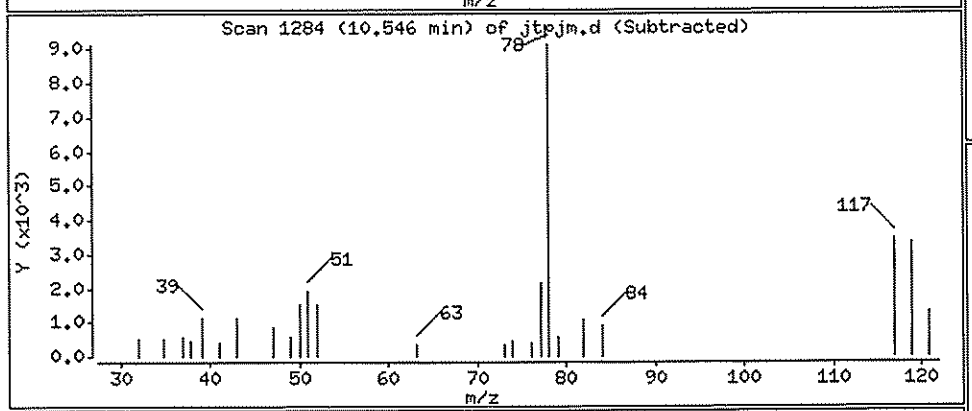
Sample Info: JTPJM1AD,,0,,,

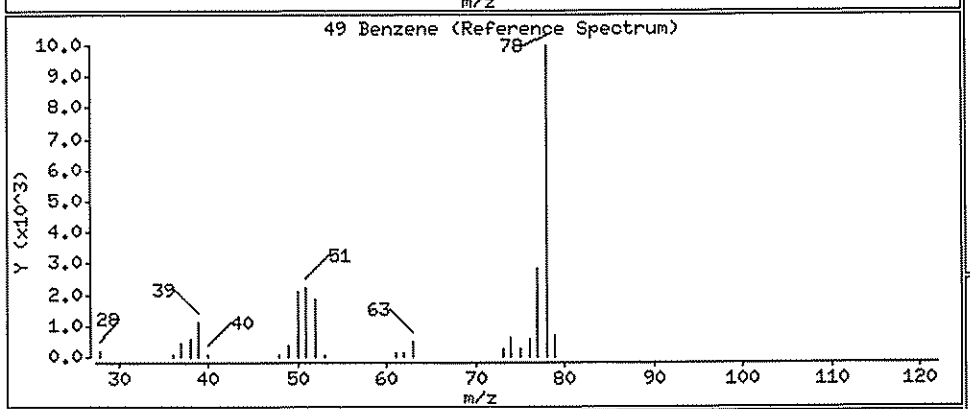
Purge Volume: 500.0 Operator: 7126

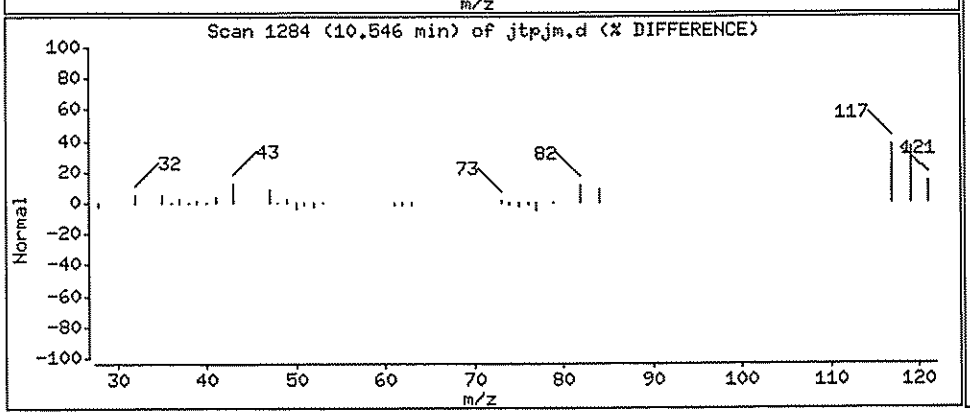
Column phase: Rtx-5 Column diameter: 0.32

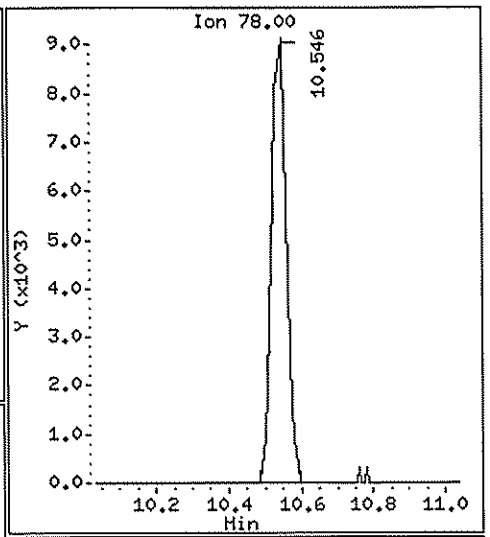
49 Benzene Concentration: 0.1495 ppb(v/v)

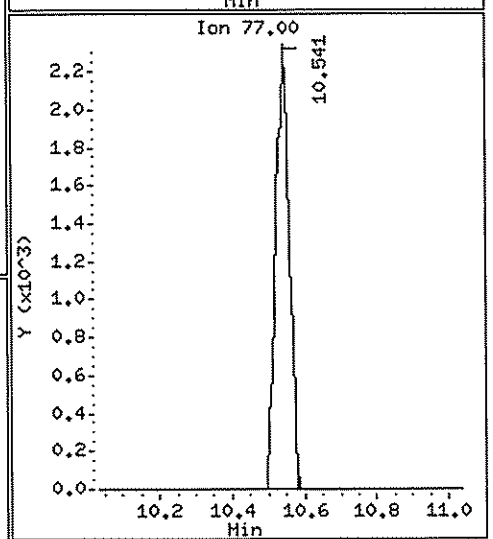


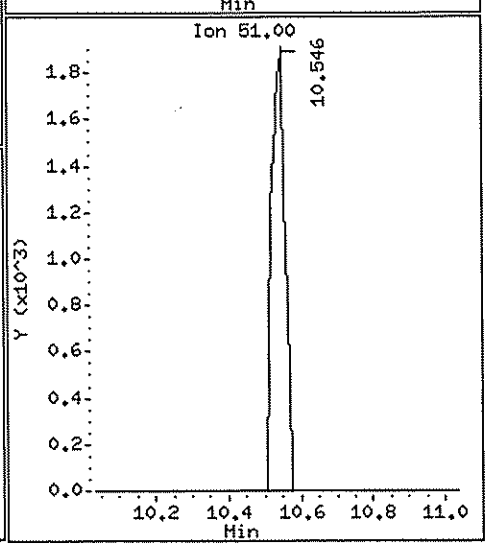












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjm.d

Date : 17-APR-2007 07:23

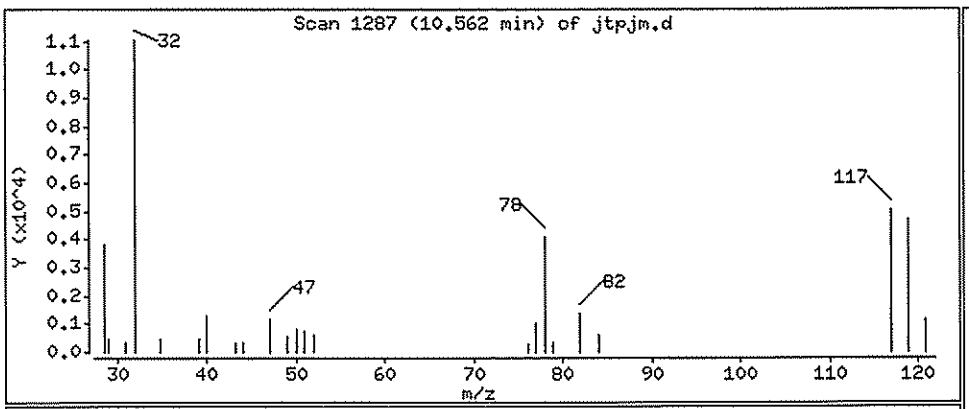
Client ID: OUTDOOR 1 (A.A) Instrument: mj.i

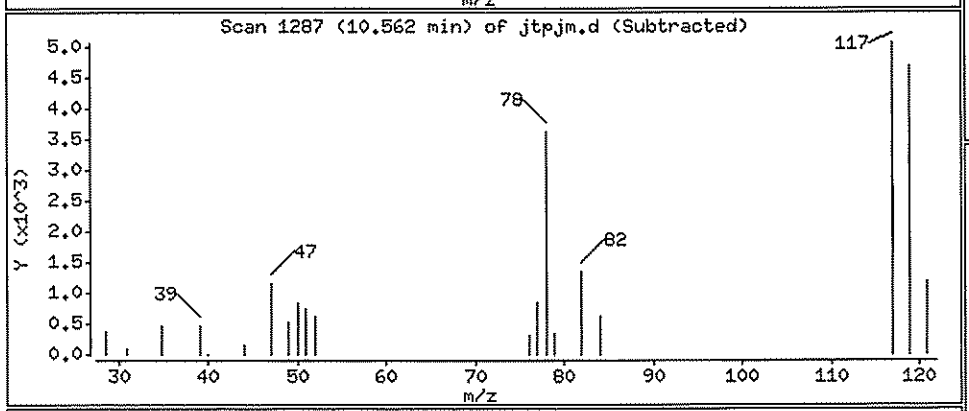
Sample Info: JTPJH1AD,,0,,,

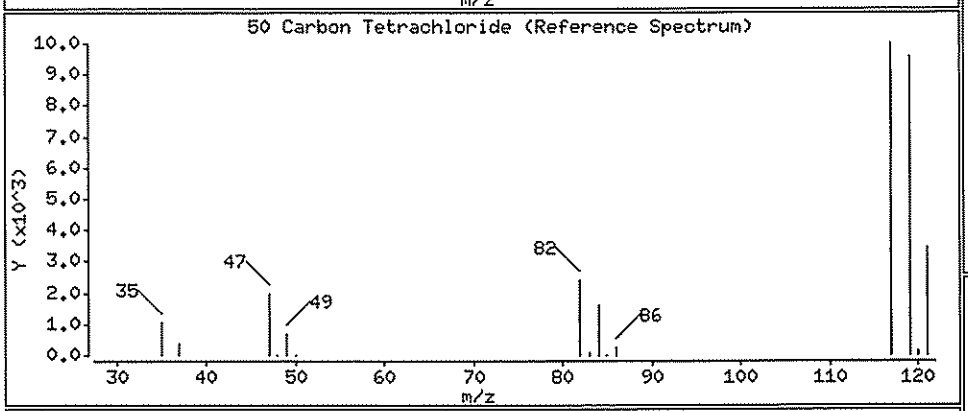
Purge Volume: 500.0 Operator: 7126

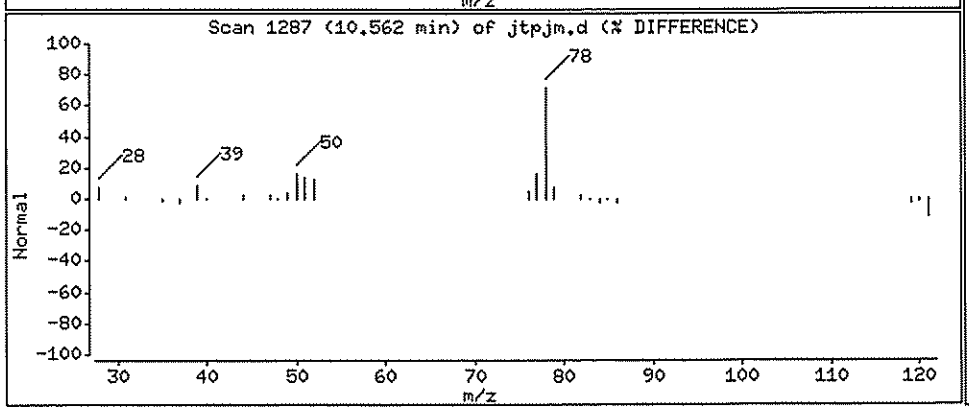
Column phase: Rtx-5 Column diameter: 0.32

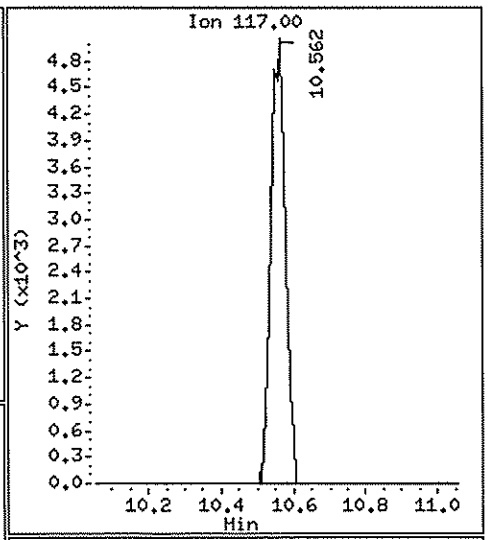
50 Carbon Tetrachloride Concentration: 0.08182 ppb(v/v)

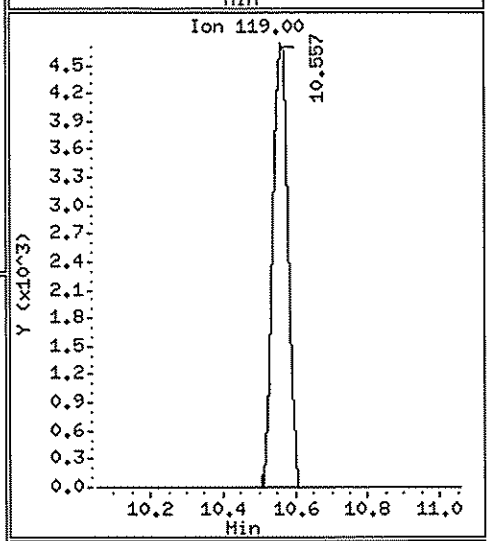


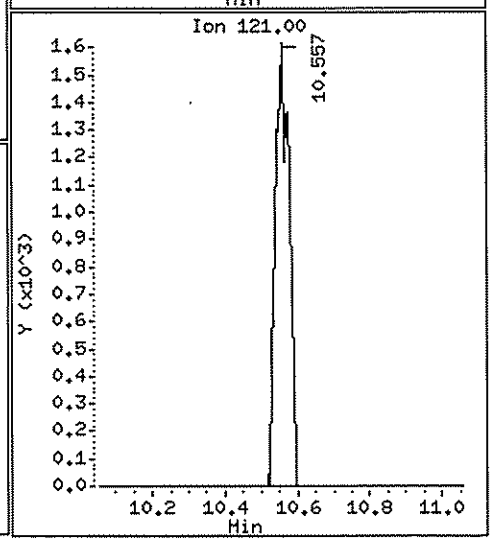












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjm.d

Date : 17-APR-2007 07:23

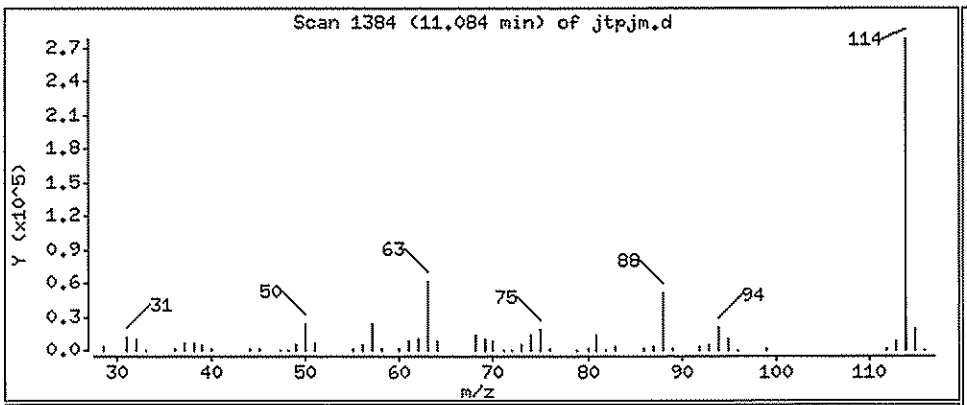
Client ID: OUTDOOR 1 (A.A) Instrument: mj.i

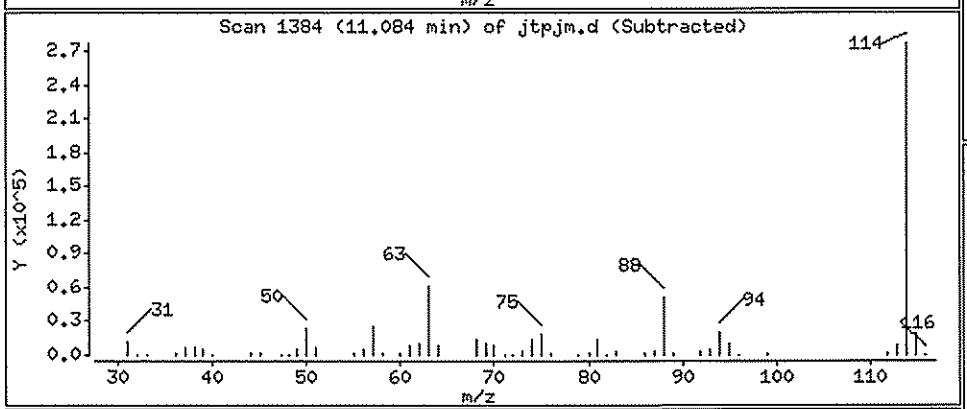
Sample Info: JTPJM1AD,,0,,,

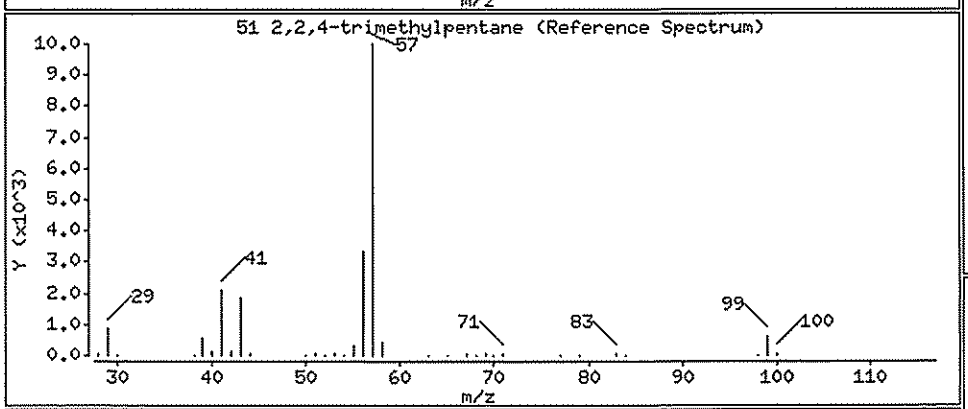
Purge Volume: 500.0 Operator: 7126

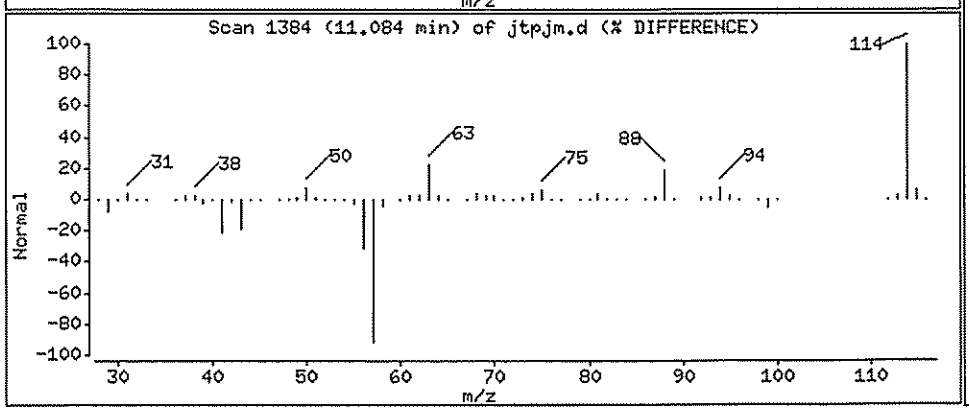
Column phase: Rtx-5 Column diameter: 0.32

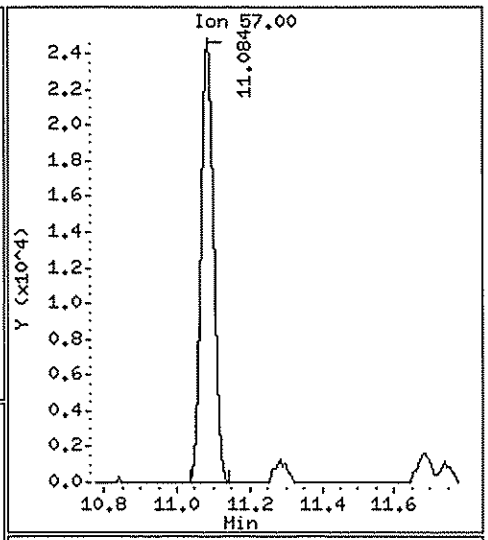
51 2,2,4-trimethylpentane Concentration: 0.2230 ppb(v/v)

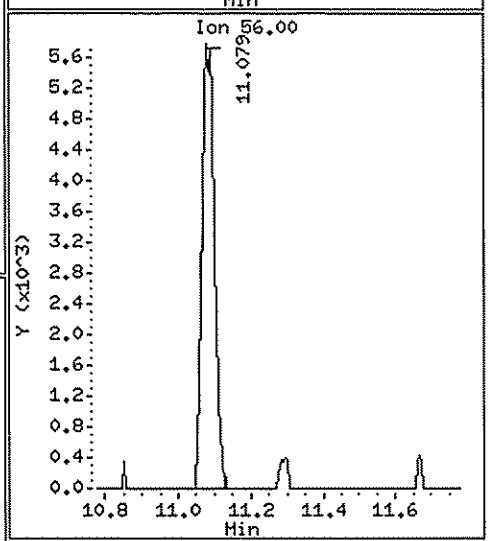


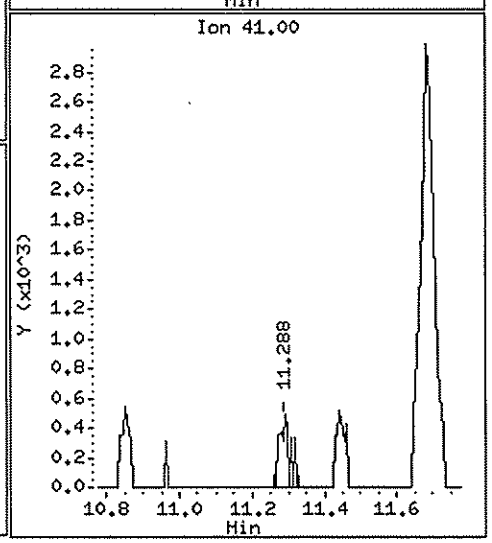












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjm.d

Date : 17-APR-2007 07:23

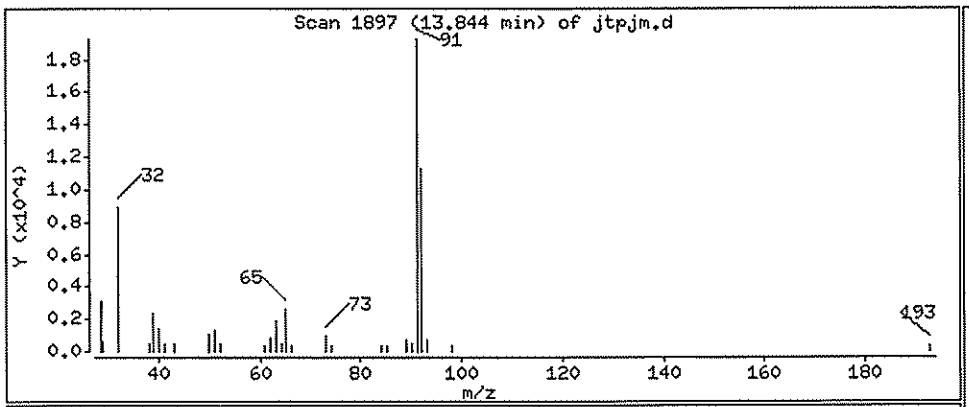
Client ID: OUTDOOR 1 (A.A) Instrument: mj.i

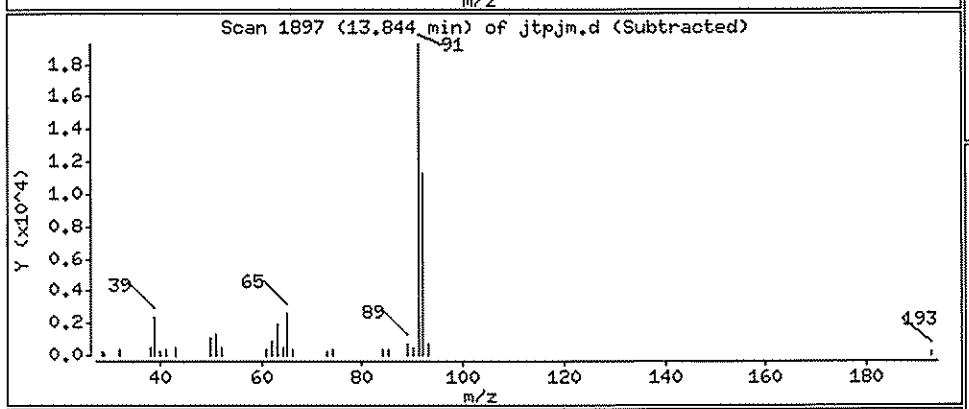
Sample Info: JTPJM1AD,,0,,,

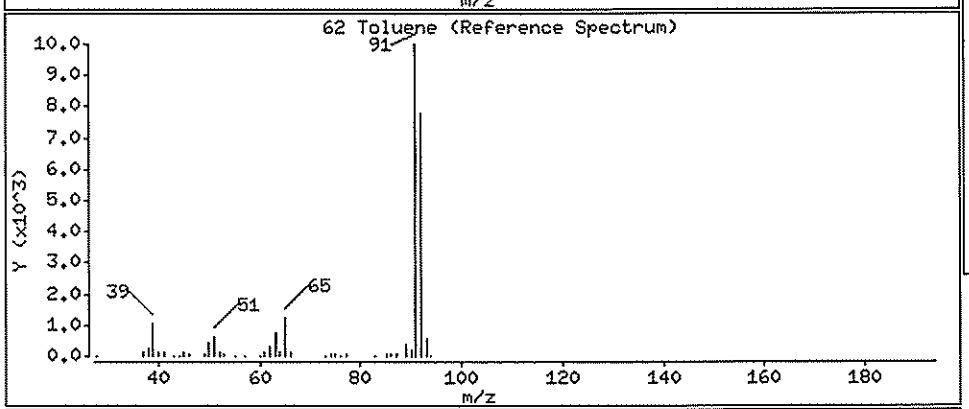
Purge Volume: 500.0 Operator: 7126

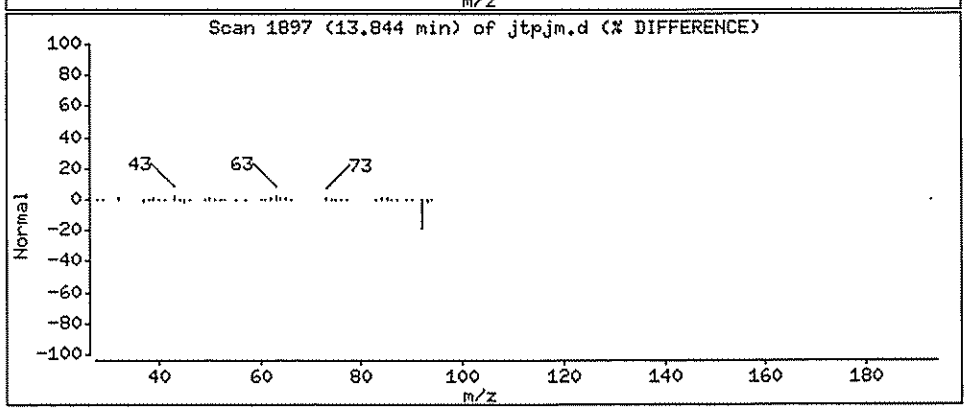
Column phase: Rtx-5 Column diameter: 0.32

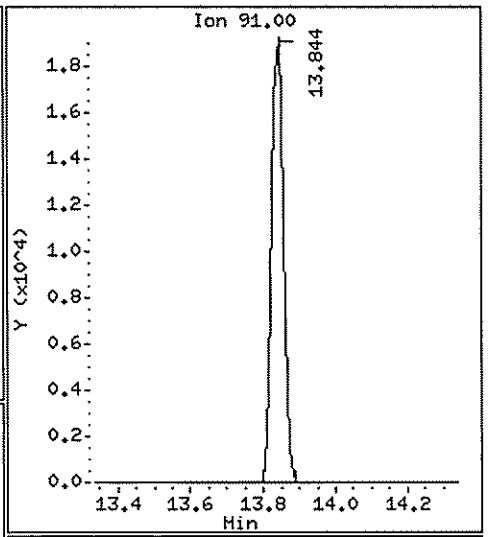
62 Toluene Concentration: 0.2567 ppb(v/v)

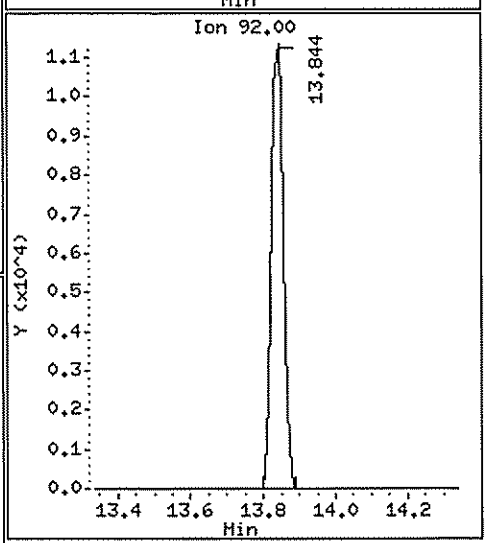












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjm.d

Date : 17-APR-2007 07:23

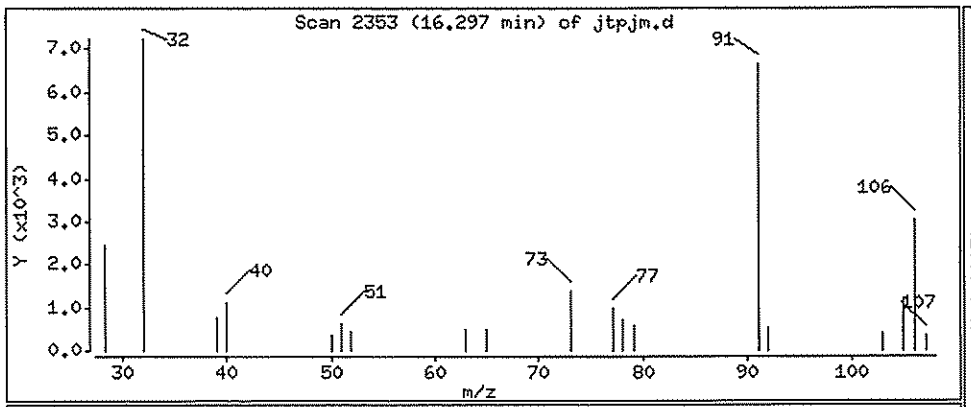
Client ID: OUTDOOR 1 (A.A) Instrument: mj.i

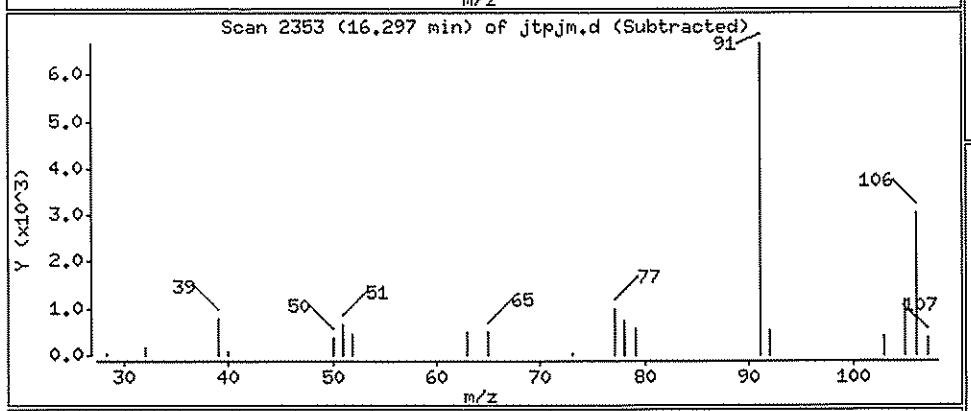
Sample Info: JTPJM1AD,,0,,,

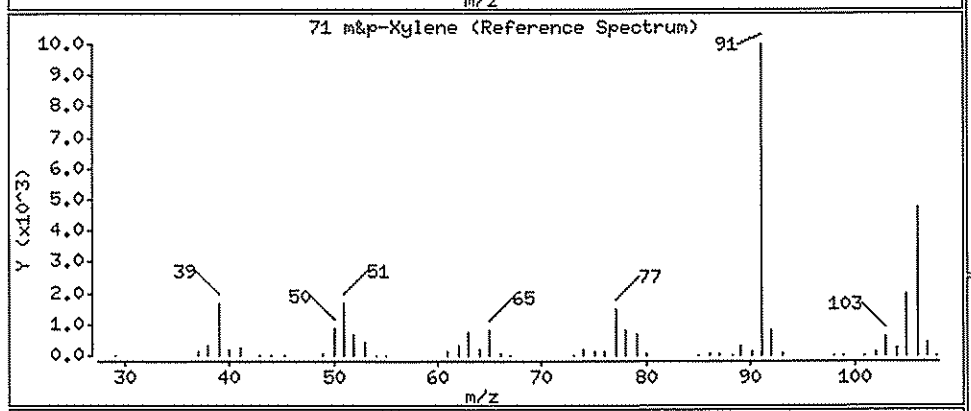
Purge Volume: 500.0 Operator: 7126

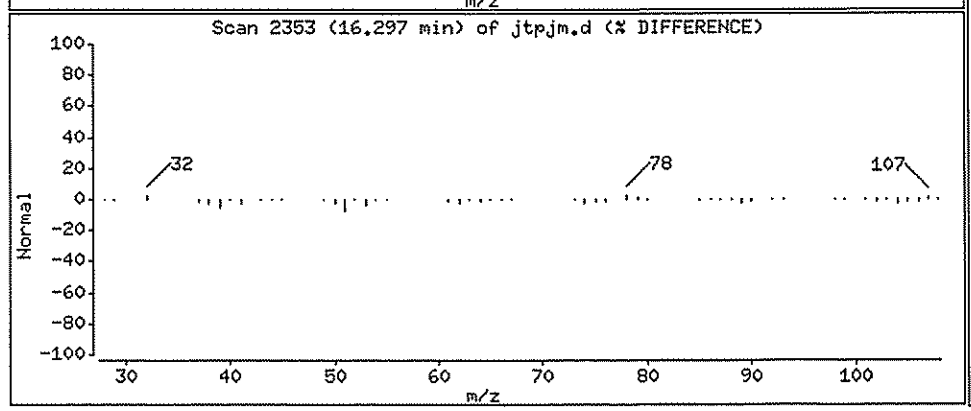
Column phase: Rtx-5 Column diameter: 0.32

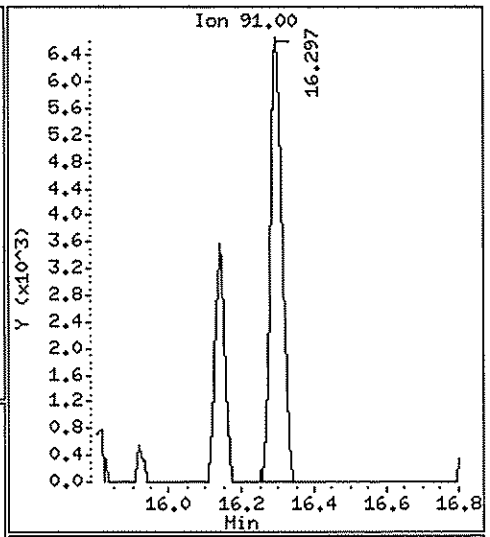
71 m&p-Xylene Concentration: 0.09644 ppb(v/v)

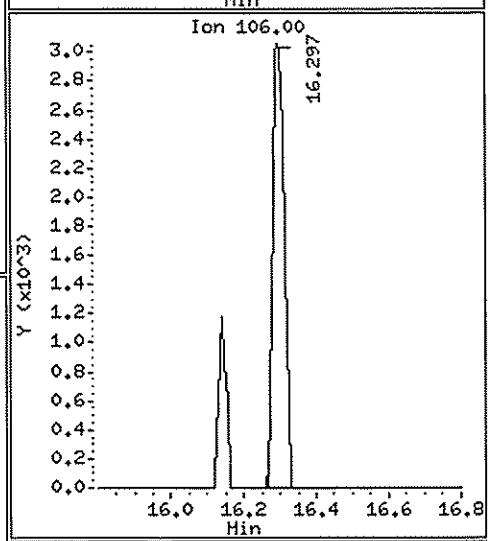


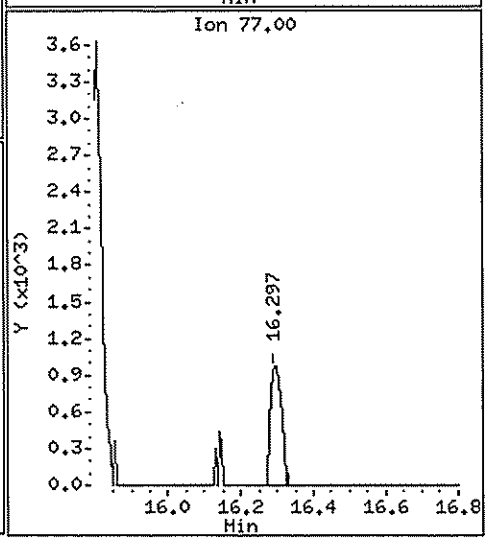












AKRF-White Plains

Client Sample ID: OUTDOOR 2 (A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 014 **Work Order #** JTPJR1AD **Matrix.....:** AIR

Date Sampled...: 4/5/07 **Date Received..:** 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7107200
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	ND	0.080	ND	0.35
Trichlorofluoromethane	**0.33**	**0.080**	**1.8**	**0.45**
n-Heptane	**0.23**	**0.20**	**0.94**	**0.82**
n-Hexane	**0.22**	**0.20**	**0.76**	**0.70**
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.29**	**0.080**	**0.91**	**0.26**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**0.59**	**0.080**	**2.2**	**0.30**
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	ND	0.080	ND	0.35
Methyl tert-butyl ether	ND	0.40	ND	1.4
m-Xylene & p-Xylene	**0.20**	**0.080**	**0.87**	**0.35**
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	**0.11**	**0.040**	**0.66**	**0.25**
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	ND	0.20	ND	0.69
Dichlorodifluoromethane	**0.65**	**0.080**	**3.2**	**0.40**
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37

AKRF-White Plains

Client Sample ID: OUTDOOR 2 (A.A)

GC/MS Volatiles

Lot-Sample # H7D110232 - 014 **Work Order #** JTPJR1AD **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	107	70 - 130
Toluene-d8	98	70 - 130
4-Bromofluorobenzene	101	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mj.i/J041607.b/jtpjr.d
Report Date: 19-Apr-2007 19:00

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041607.b/jtpjr.d
Lab Smp Id: JTPJR1AD Client Smp ID: OUTDOOR 2 (A.A)
Inj Date : 17-APR-2007 08:05
Operator : 7126 Inst ID: mj.i
Smp Info : JTPJR1AD,,0,,,
Misc Info : J041607,TO15,magna.sub,,,500 ML
Comment :
Method : /var/chem/gcms/mj.i/J041607.b/TO15.m
Meth Date : 19-Apr-2007 17:51 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 23
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: magna.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.897	8.899	(1.000)	123537	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.087	11.083	(1.000)	446708	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.805	15.806	(1.000)	404105	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.903	9.905	(0.893)	121929	4.28950	4.289
$ 5 Toluene-d8	98	13.723	13.724	(0.868)	383500	3.89977	3.900
$ 6 4-Bromofluorobenzene	95	17.440	17.441	(1.103)	328149	4.02427	4.024
8 Dichlorodifluoromethane	85	3.776	3.778	(0.424)	95643	0.64553	0.6455
20 Trichlorofluoromethane	101	5.261	5.262	(0.591)	48299	0.32748	0.3275
39 Hexane	56	8.128	8.130	(0.914)	6880	0.21693	0.2169
49 Benzene	78	10.538	10.534	(0.950)	30723	0.28546	0.2854
50 Carbon Tetrachloride	117	10.560	10.556	(1.187)	11743	0.10538	0.1054
51 2,2,4-trimethylpentane	57	11.081	11.277	(1.000)	38729	0.21814	0.2181
52 Heptane	43	11.668	11.653	(1.052)	14562	0.22887	0.2289
62 Toluene	91	13.841	13.837	(0.876)	62560	0.59464	0.5946
71 m&p-Xylene	91	16.294	16.301	(1.031)	19281	0.20004	0.2000

4-19-07

Data File: /var/chem/gcms/mj.i/J041607.b/jtpjr.d
Report Date: 19-Apr-2007 19:00

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jtpjr.d
Lab Smp Id: JTPJR1AD
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,magna.sub,,,500 ML

Calibration Date: 16-APR-2007
Calibration Time: 12:57
Client Smp ID: OUTDOOR 2 (A.A)
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	185541	110397	260685	123537	-33.42
2 1,4-Difluorobenze	738195	439226	1037164	446708	-39.49
3 Chlorobenzene-d5	652787	388408	917166	404105	-38.10

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.90	8.57	9.23	8.90	-0.02
2 1,4-Difluorobenze	11.08	10.75	11.41	11.09	0.03
3 Chlorobenzene-d5	15.81	15.48	16.14	15.80	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J041607.b/jtpjr.d
Report Date: 19-Apr-2007 19:00

STL Knoxville

RECOVERY REPORT

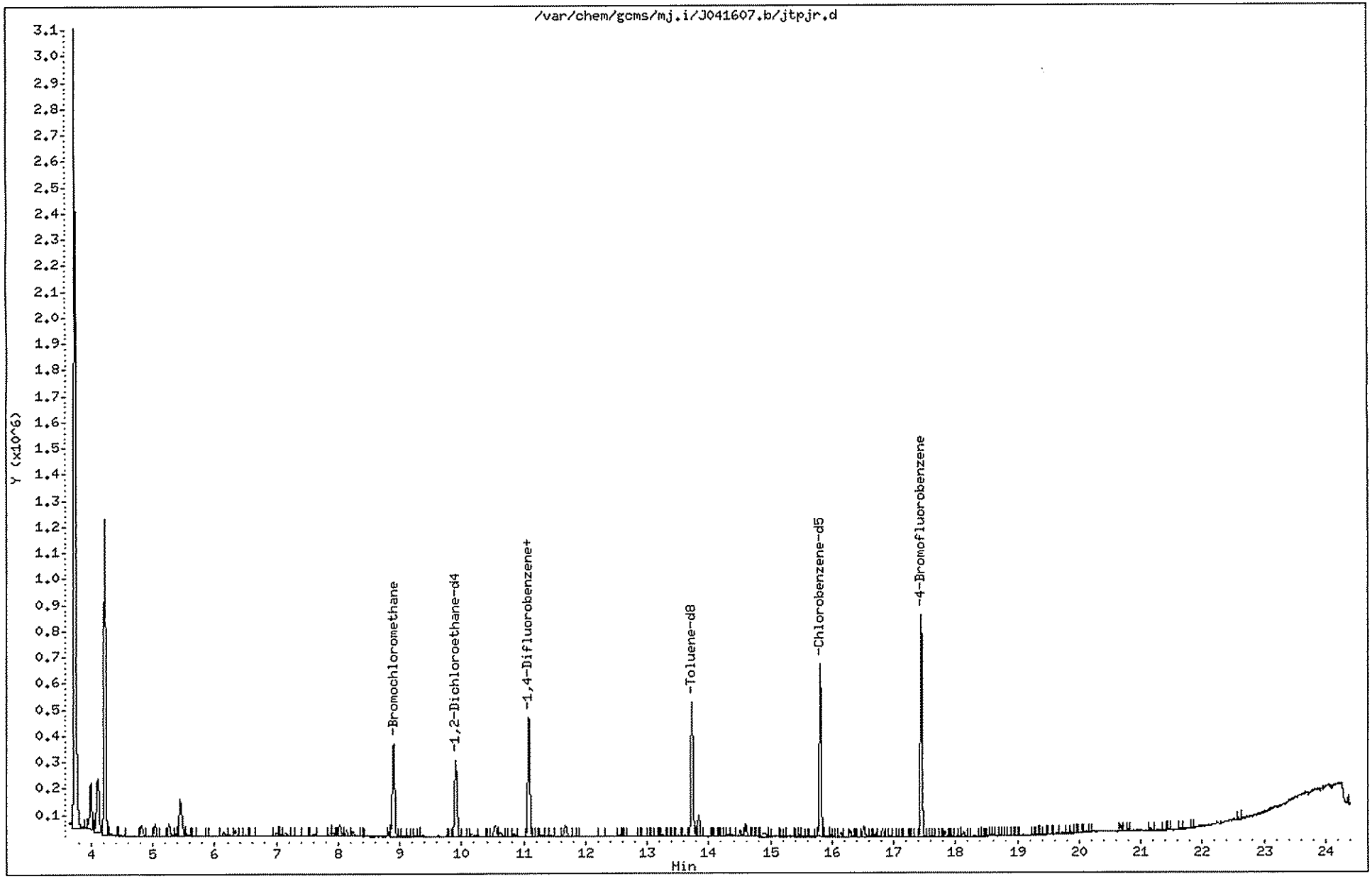
Client Name: AKRF-White Plains
Sample Matrix: GAS
Lab Smp Id: JTPJR1AD
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: magna.sub
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,magna.sub,,,500 ML

Client SDG: H7D110232
Fraction: OTHER
Client Smp ID: OUTDOOR 2 (A.A)
Operator: 7126
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	4.000	4.289	107.24	70-130
$ 5 Toluene-d8	4.000	3.900	97.49	70-130
$ 6 4-Bromofluorobenze	4.000	4.024	100.61	70-130

Data File: /var/chem/gcms/mj.i/J041607.b/jtpjr.d
Date : 17-APR-2007 08:05
Client ID: OUTDOOR 2 (A,A)
Sample Info: JTPJR1AD,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mj.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J041607.b/jtpjr.d

Date : 17-APR-2007 08:05

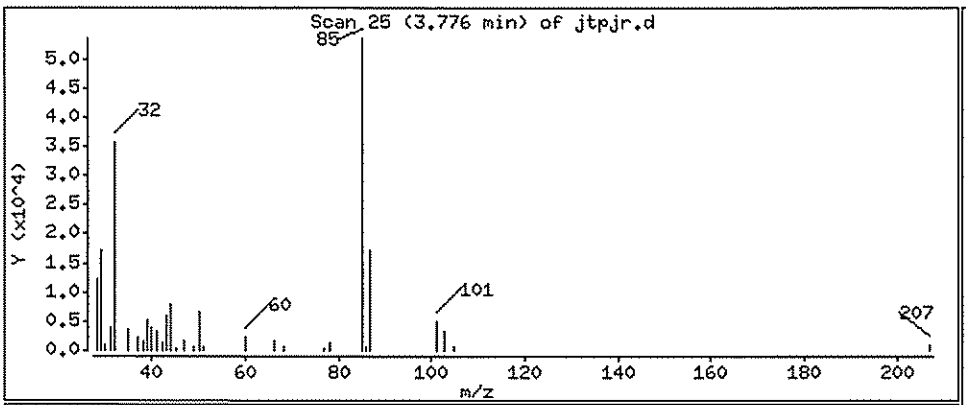
Client ID: OUTDOOR 2 (A.A) Instrument: mj.i

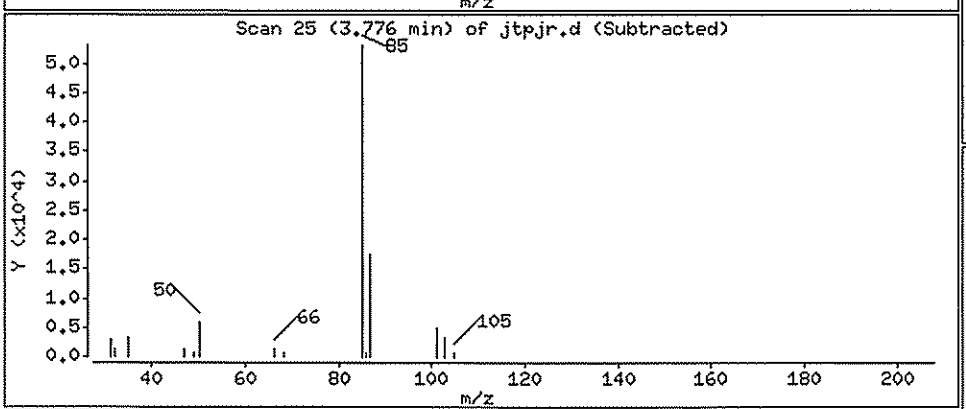
Sample Info: JTPJR1AD,,0,,,

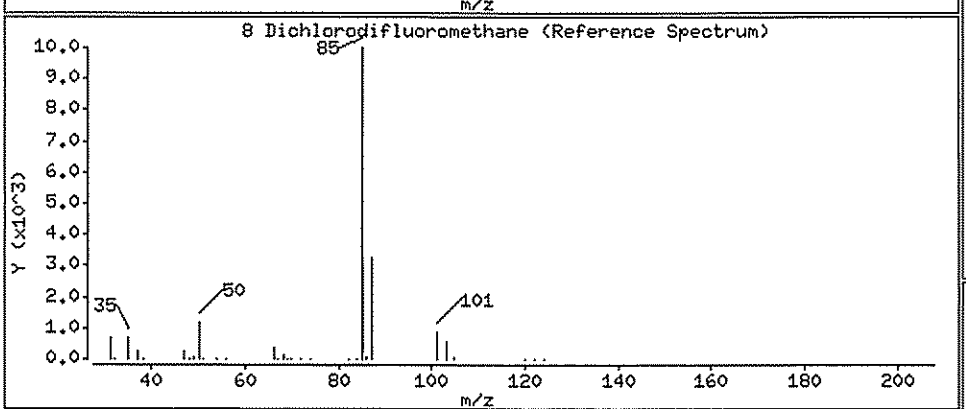
Purge Volume: 500.0 Operator: 7126

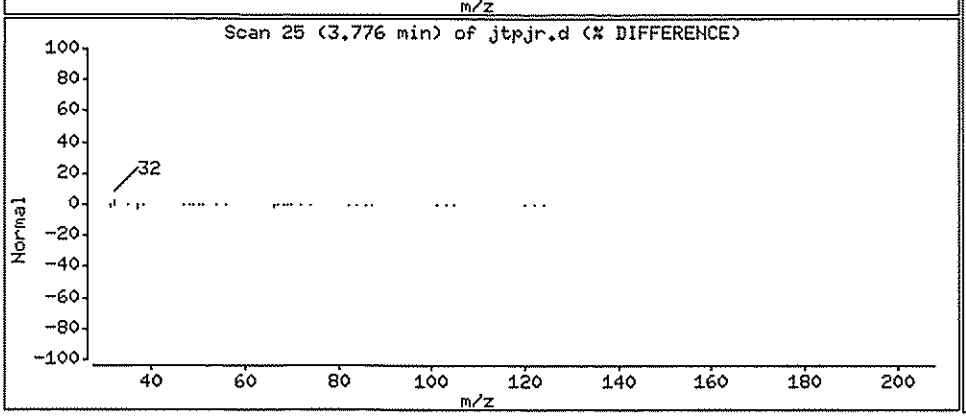
Column phase: Rtx-5 Column diameter: 0.32

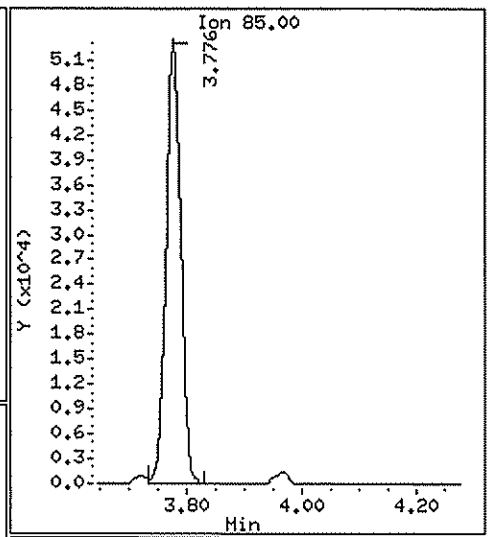
8 Dichlorodifluoromethane Concentration: 0.6455 ppb(v/v)

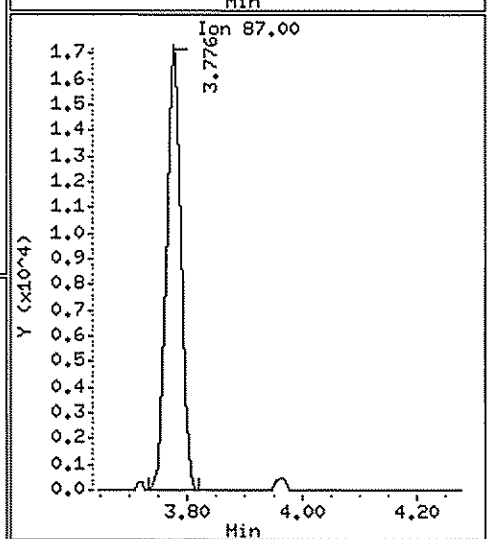


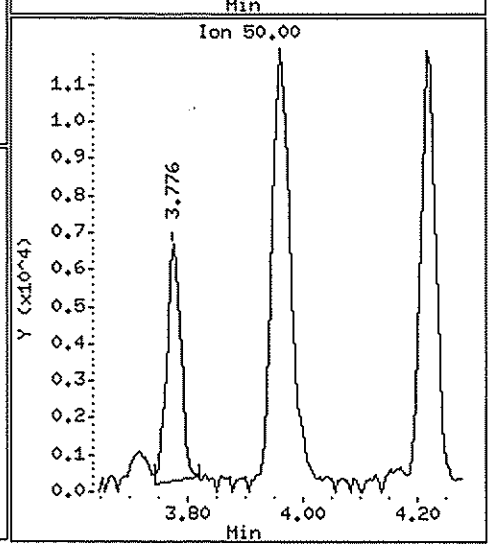












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjr.d

Date : 17-APR-2007 08:05

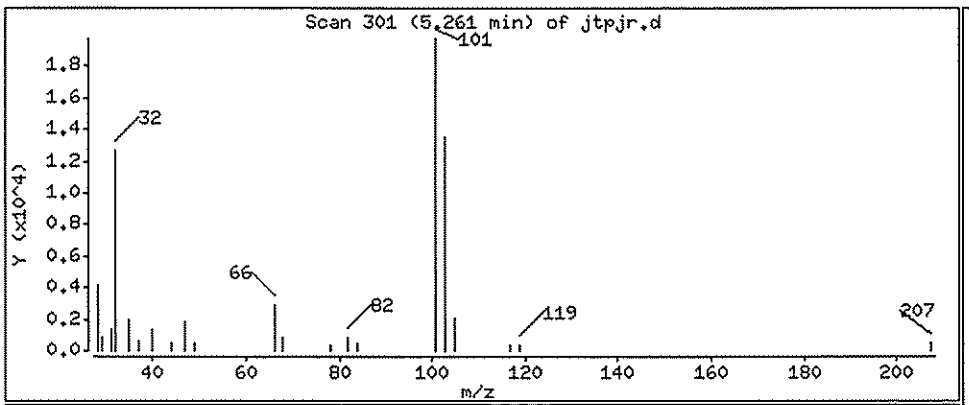
Client ID: OUTDOOR 2 (A.A) Instrument: mj.i

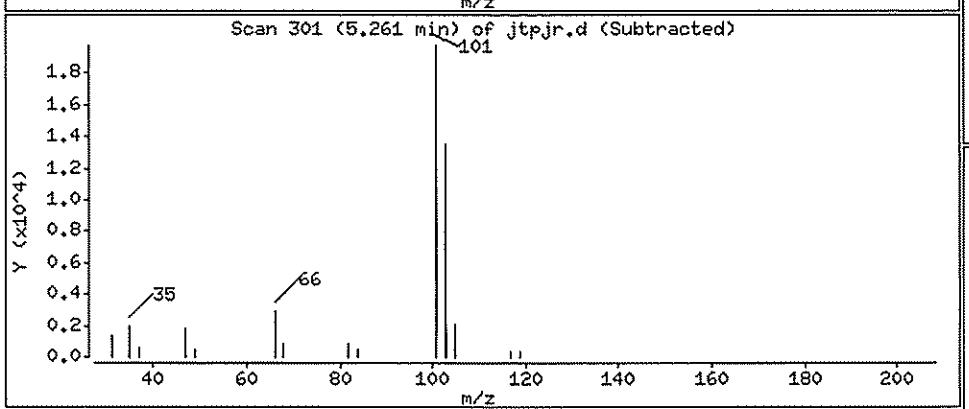
Sample Info: JTPJR1AD,,0,,,

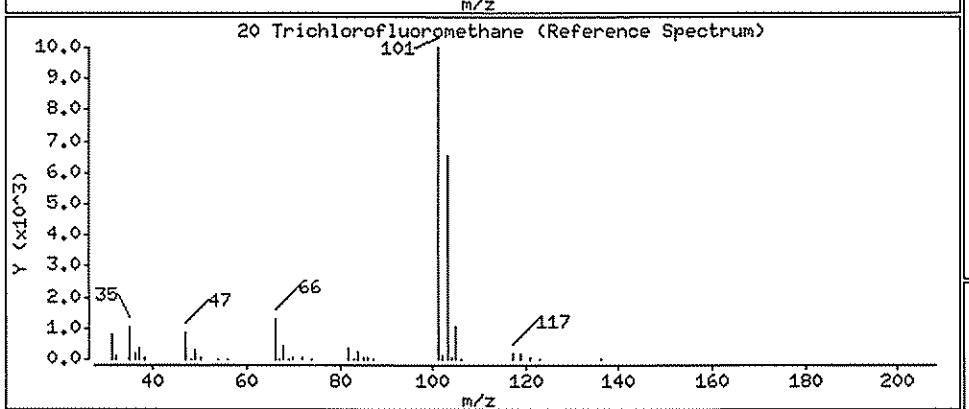
Purge Volume: 500.0 Operator: 7126

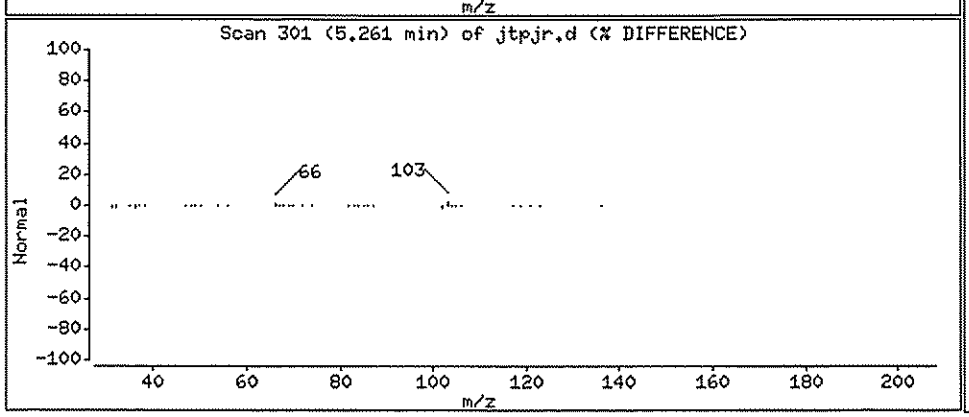
Column phase: Rtx-5 Column diameter: 0.32

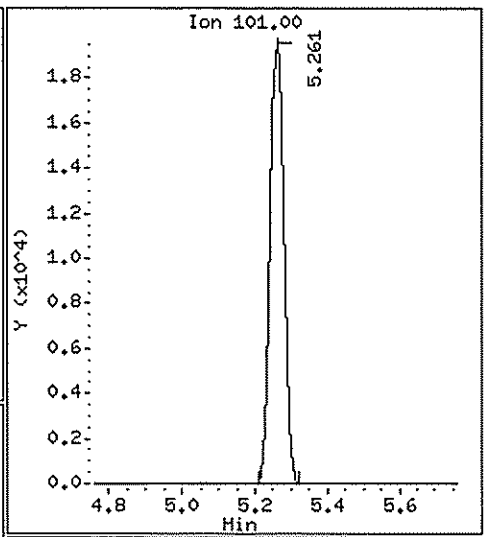
20 Trichlorofluoromethane Concentration: 0.3275 ppb(v/v)

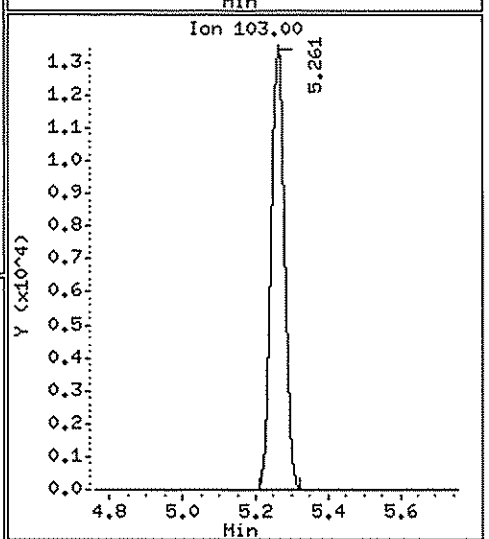


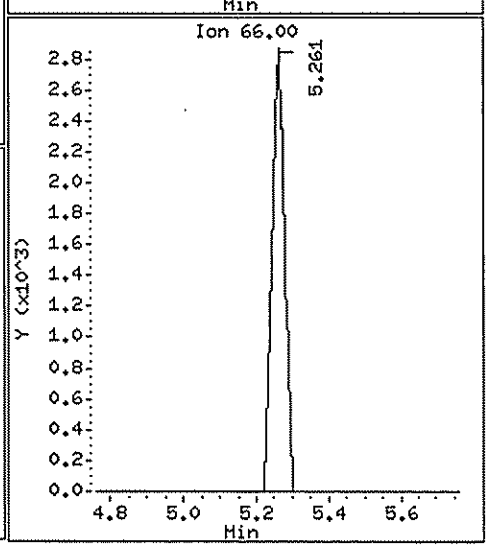












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjr.d

Date : 17-APR-2007 08:05

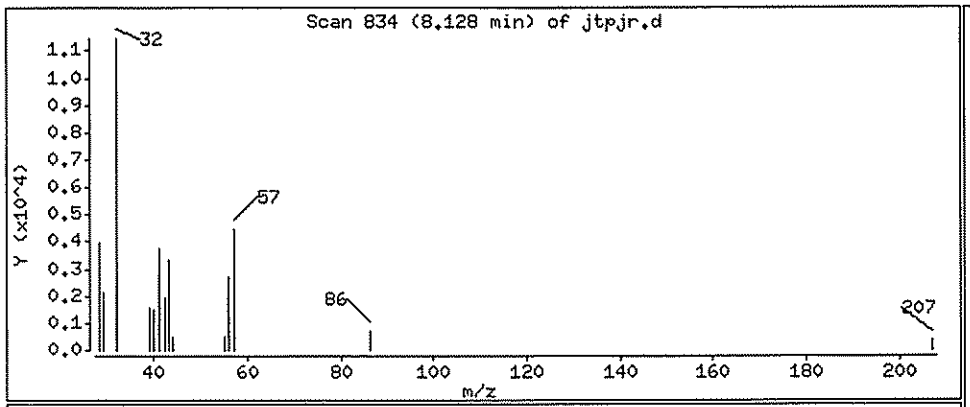
Client ID: OUTDOOR 2 (A.A) Instrument: mj.i

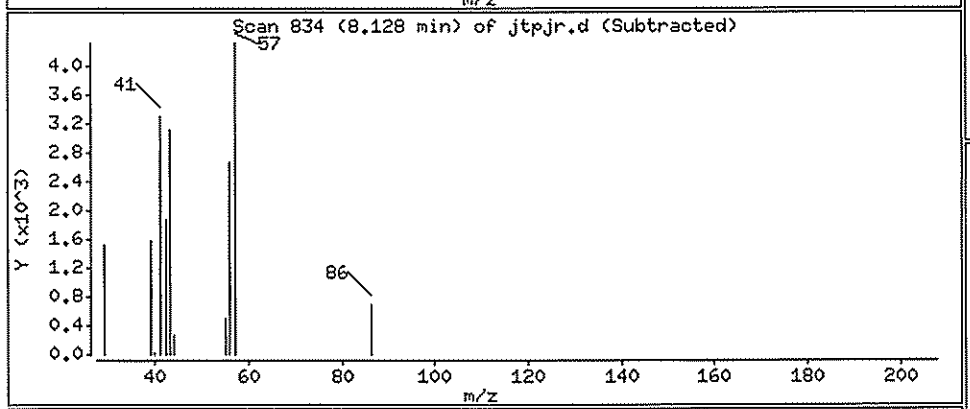
Sample Info: JTPJR1AD,,0,,,

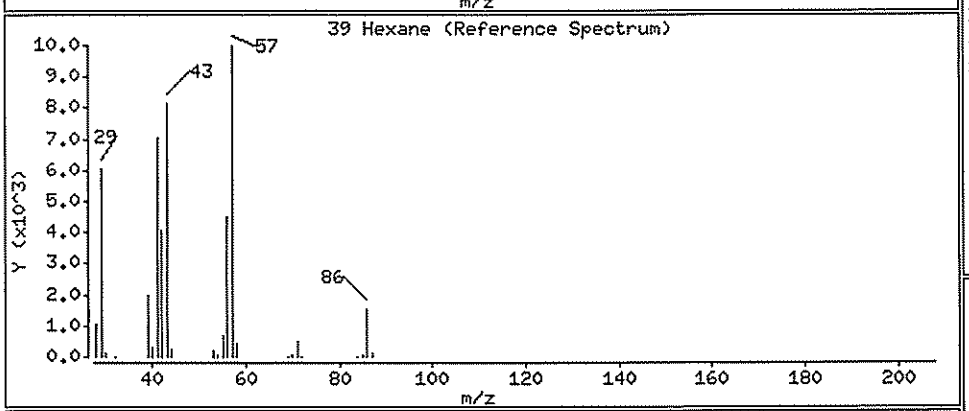
Purge Volume: 500.0 Operator: 7126

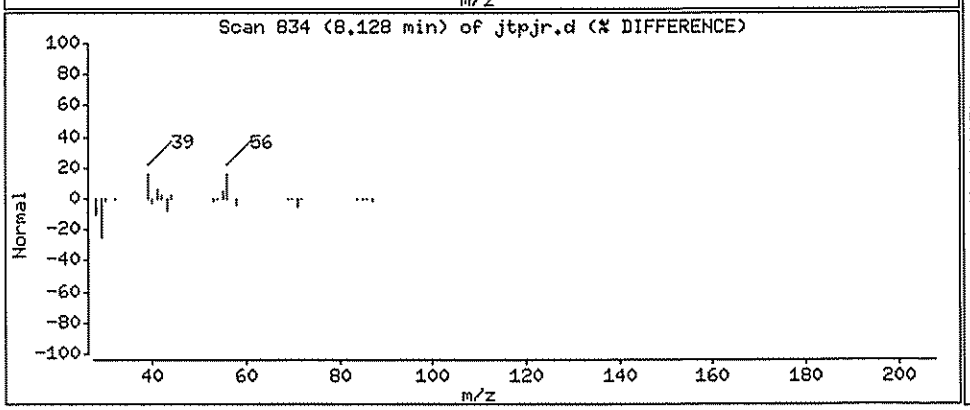
Column phase: Rtx-5 Column diameter: 0.32

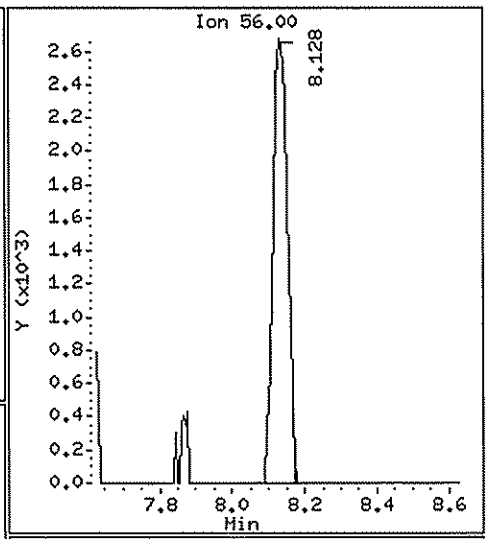
39 Hexane Concentration: 0.2169 ppb(v/v)

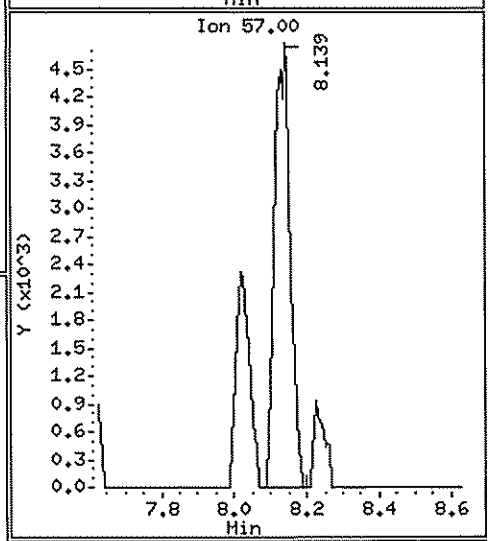


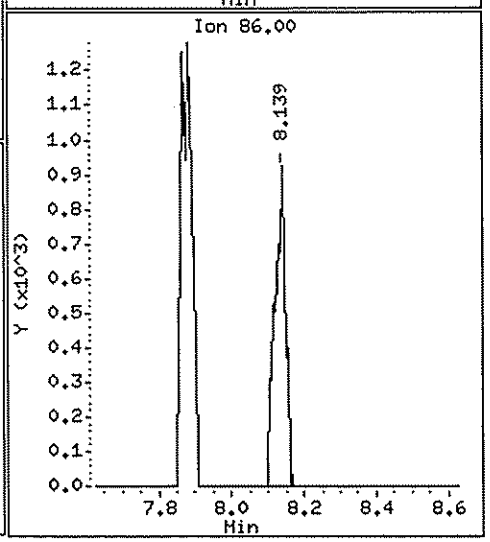












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjr.d

Date : 17-APR-2007 08:05

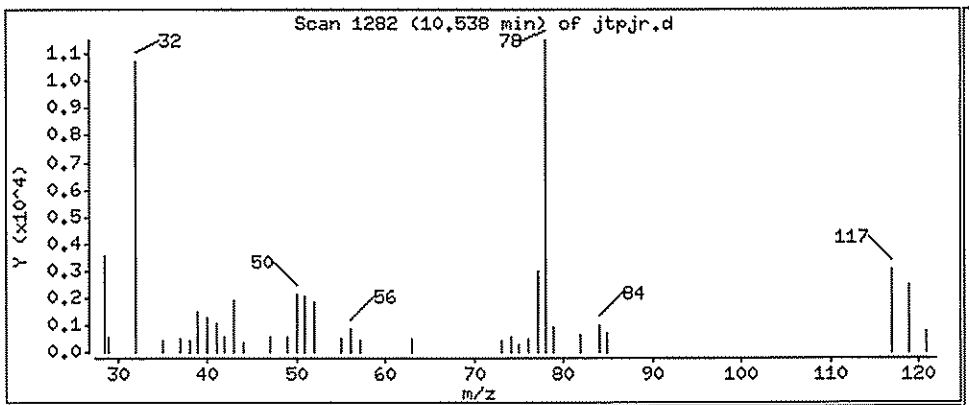
Client ID: OUTDOOR 2 (A.A) Instrument: mj.i

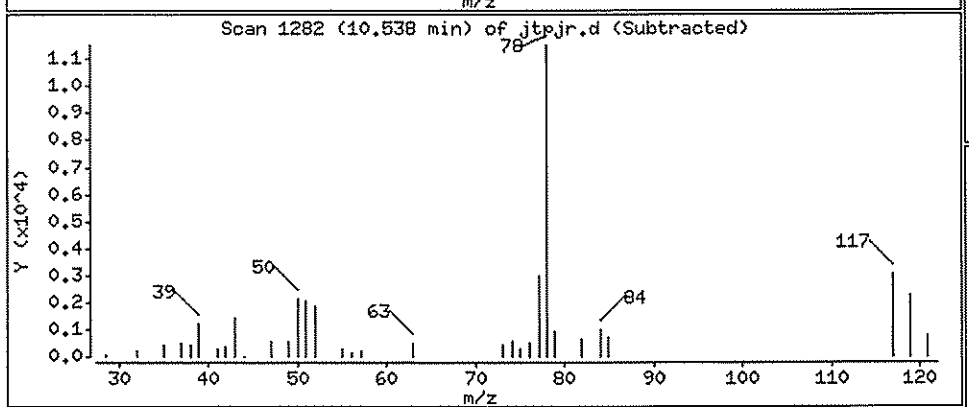
Sample Info: JTPJR1AD,,0,,,

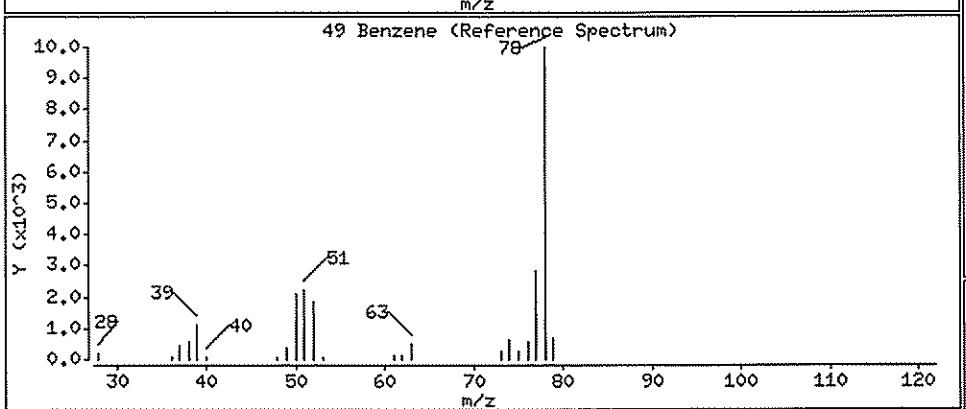
Purge Volume: 500.0 Operator: 7126

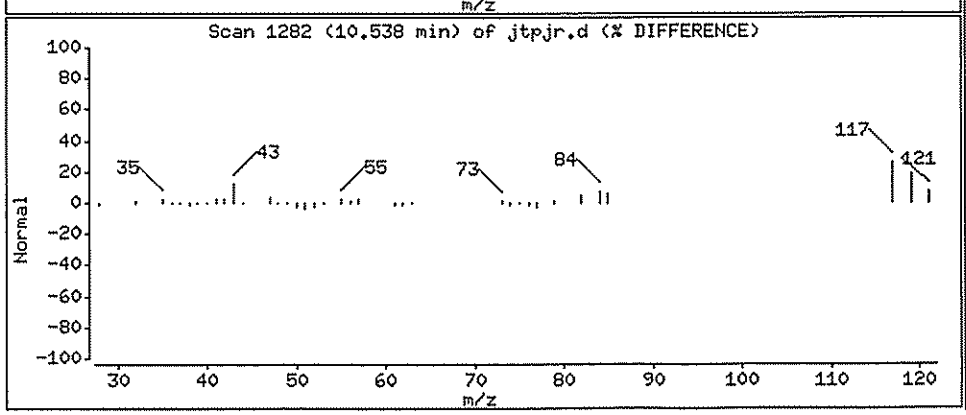
Column phase: Rtx-5 Column diameter: 0.32

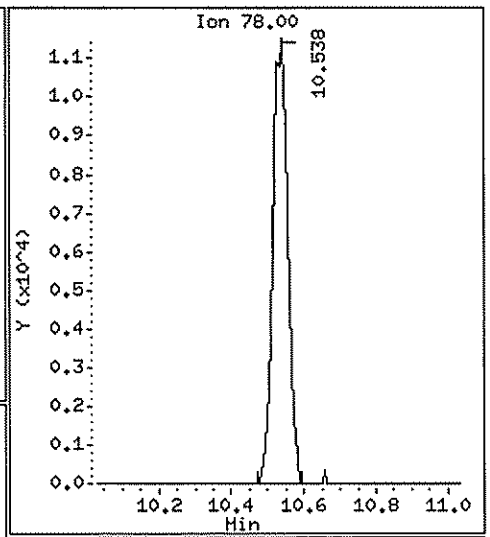
49 Benzene Concentration: 0.2854 ppb(v/v)

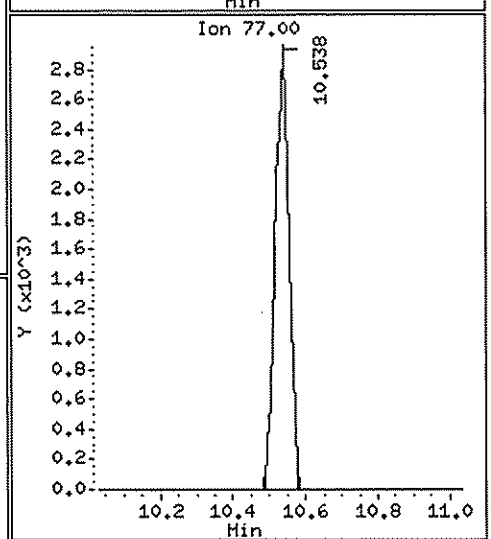


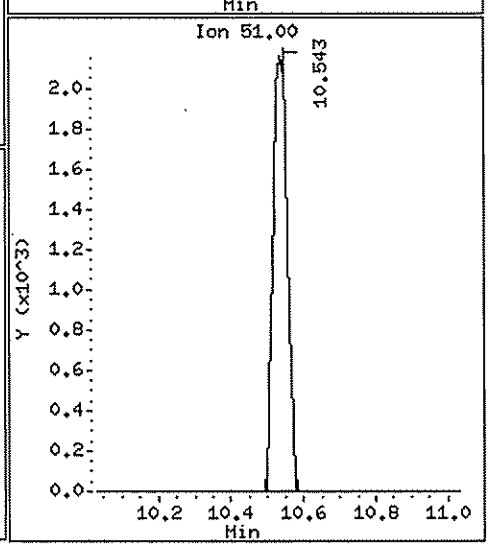












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjr.d

Date : 17-APR-2007 08:05

Client ID: OUTDOOR 2 (A,A)

Instrument: mj.i

Sample Info: JTPJR1AD,,0,,,

Purge Volume: 500.0

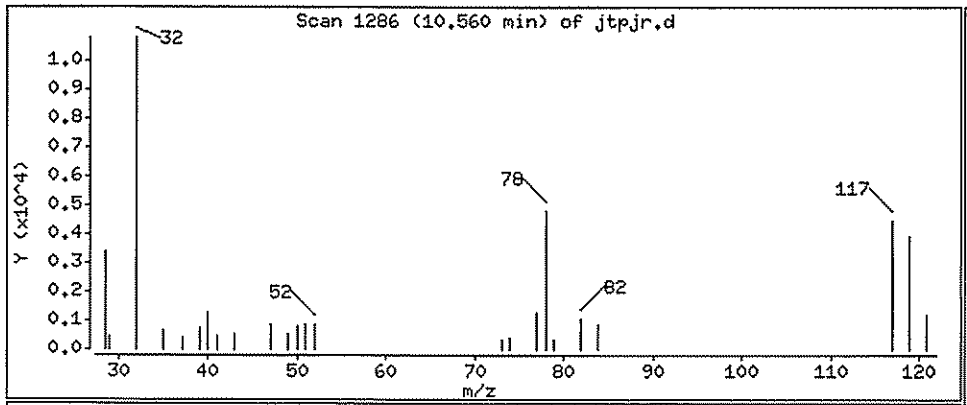
Operator: 7126

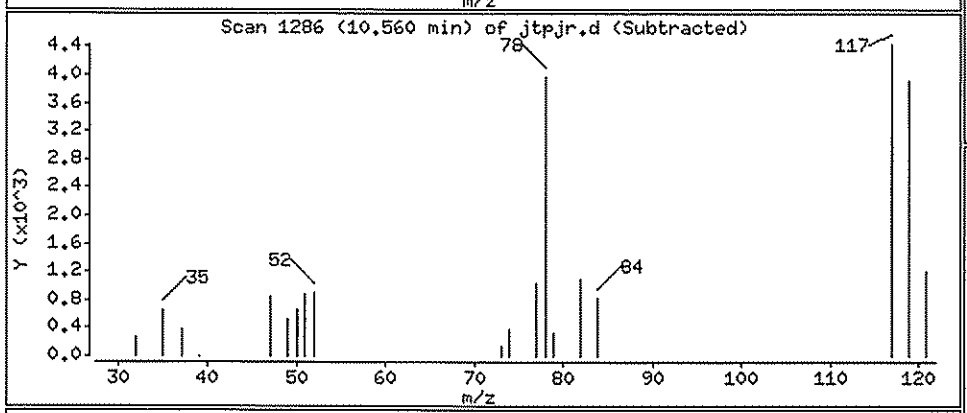
Column phase: Rtx-5

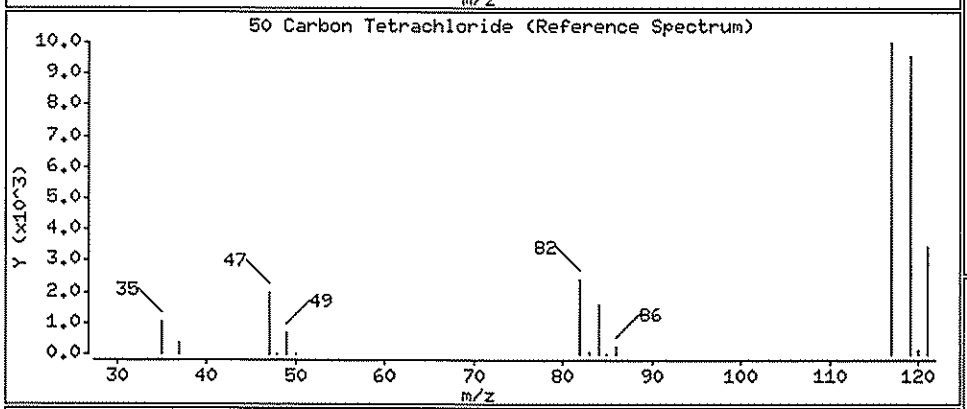
Column diameter: 0.32

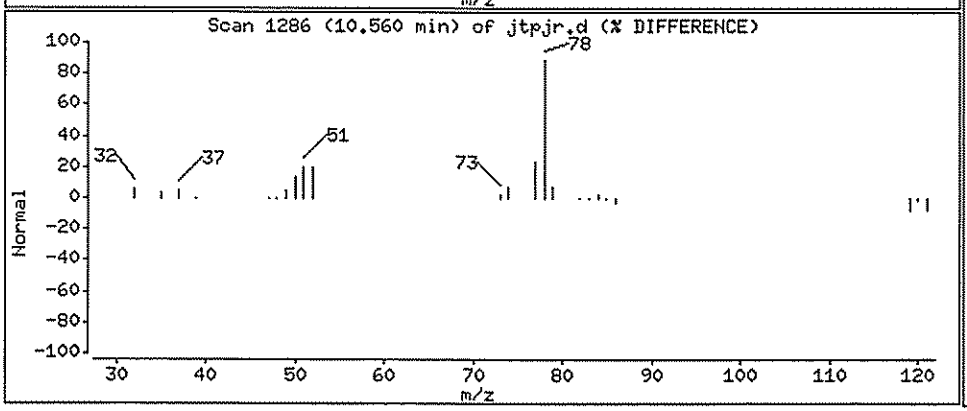
50 Carbon Tetrachloride

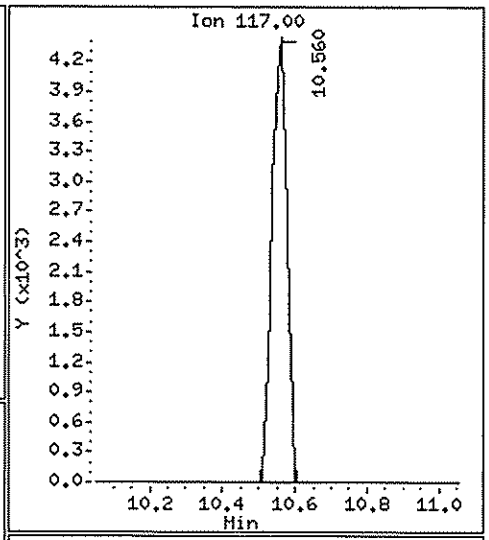
Concentration: 0.1054 ppb(v/v)

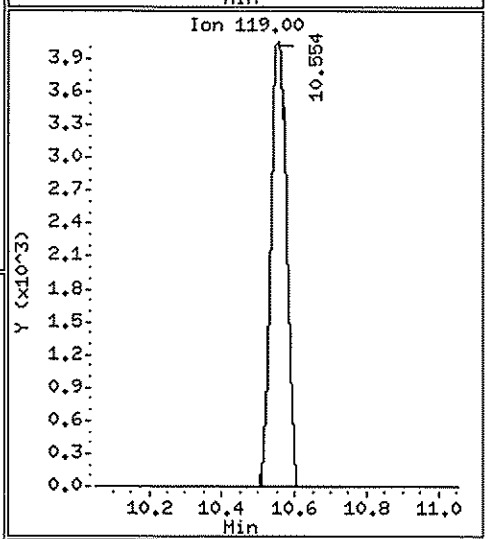


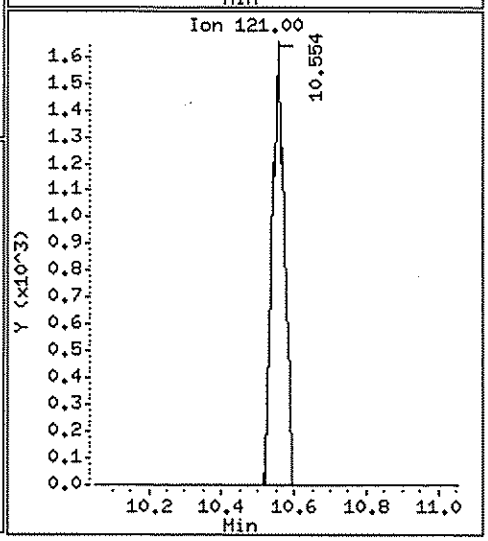












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjr.d

Date : 17-APR-2007 08:05

Client ID: OUTDOOR 2 (A.A)

Instrument: mj.i

Sample Info: JTPJR1AD,,0,,,

Purge Volume: 500.0

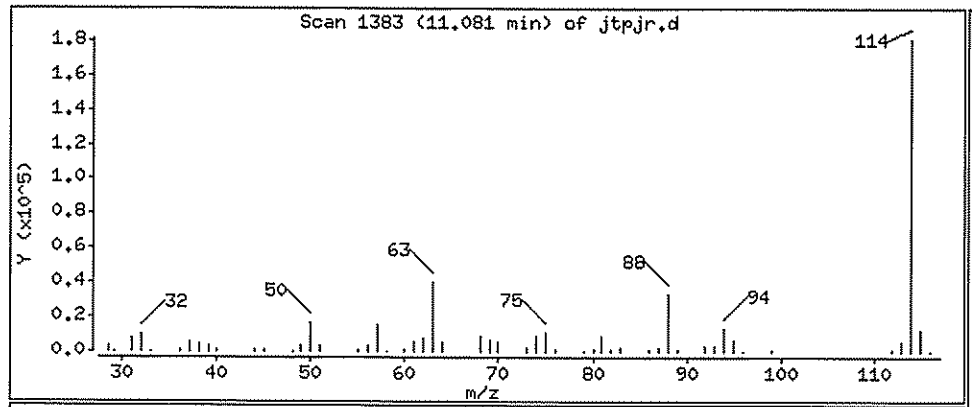
Operator: 7126

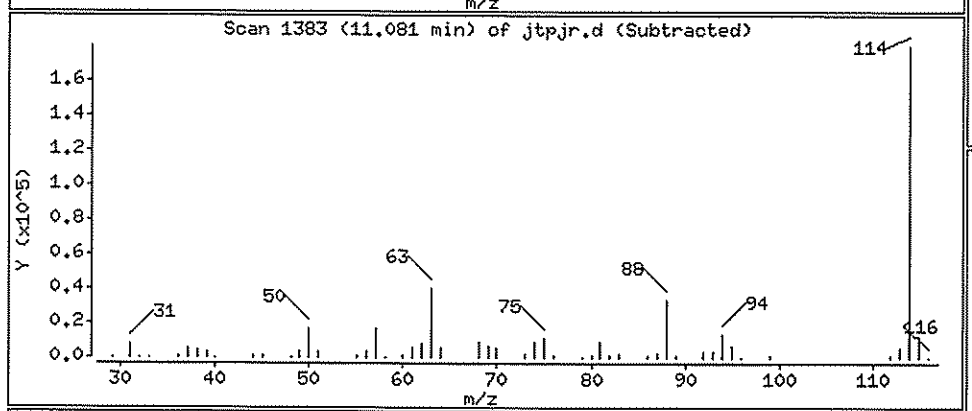
Column phase: Rtx-5

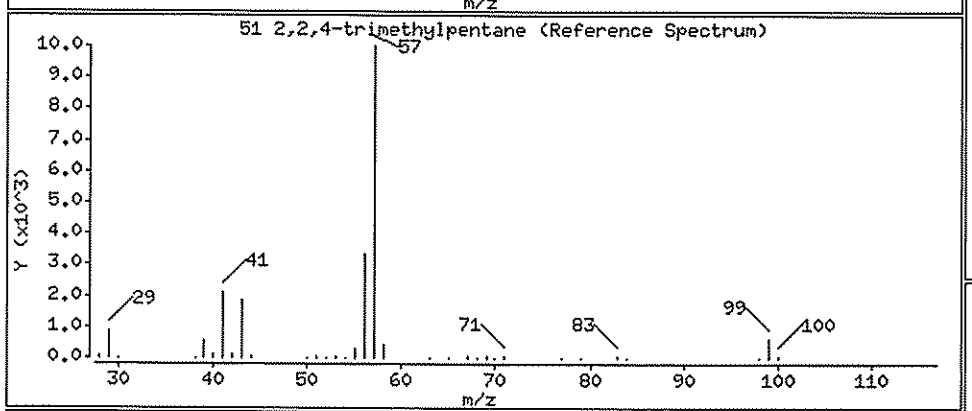
Column diameter: 0.32

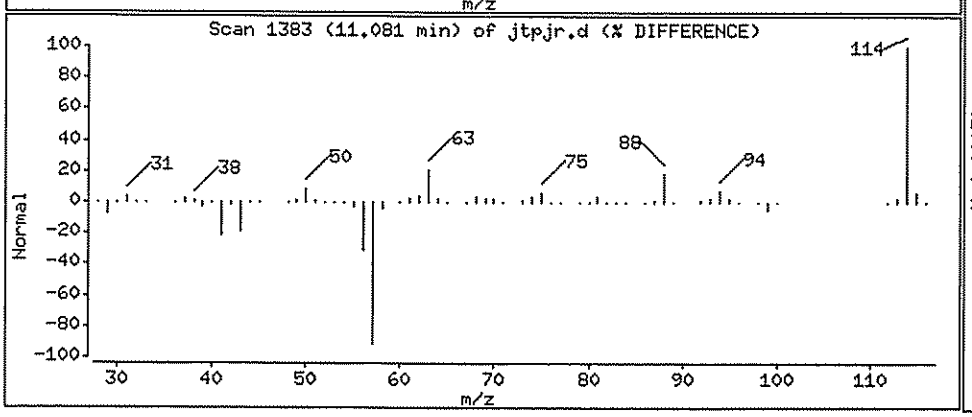
51 2,2,4-trimethylpentane

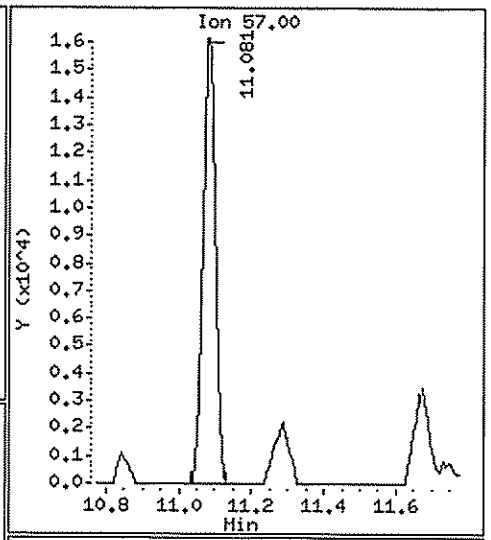
Concentration: 0.2181 ppb(v/v)

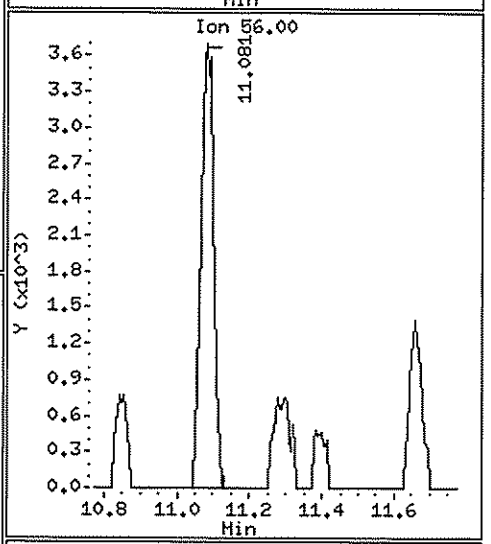


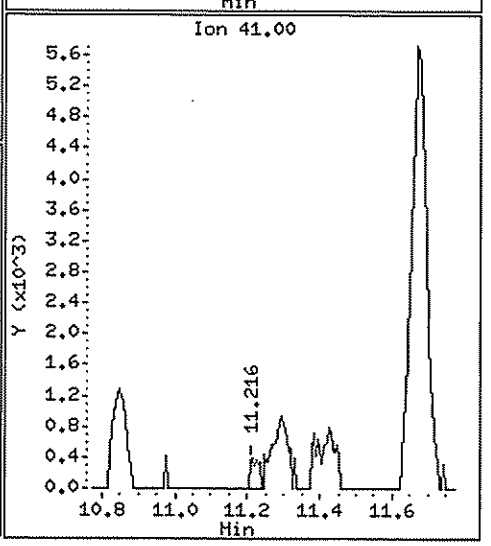












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjr.d

Date : 17-APR-2007 08:05

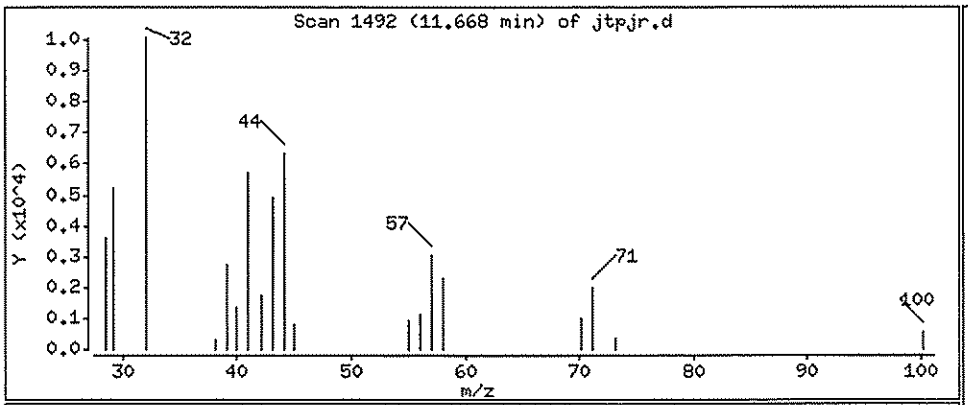
Client ID: OUTDOOR 2 (A.A) Instrument: mj.i

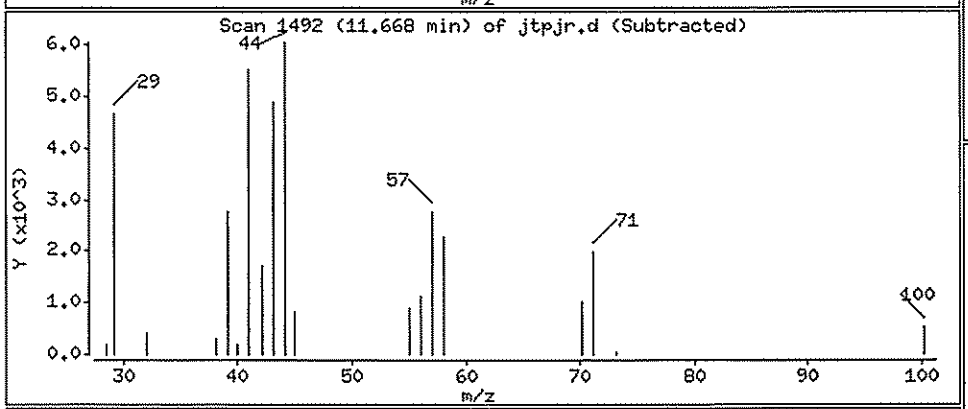
Sample Info: JTPJR1AD,,0,,,

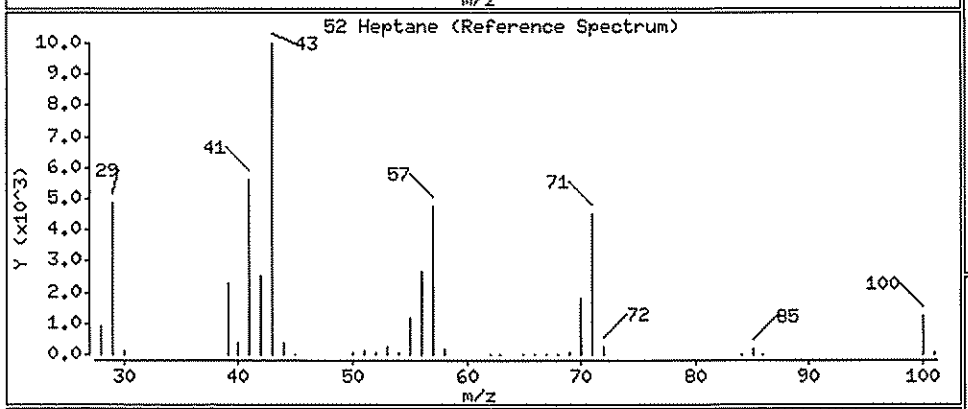
Purge Volume: 500.0 Operator: 7126

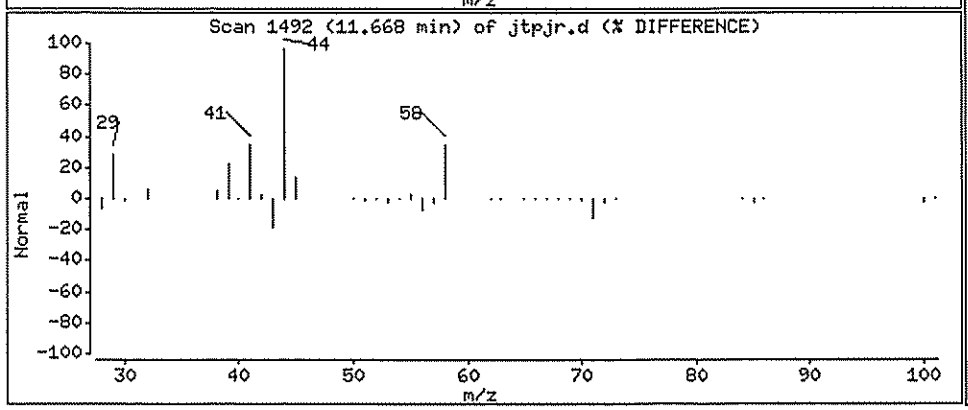
Column phase: Rtx-5 Column diameter: 0.32

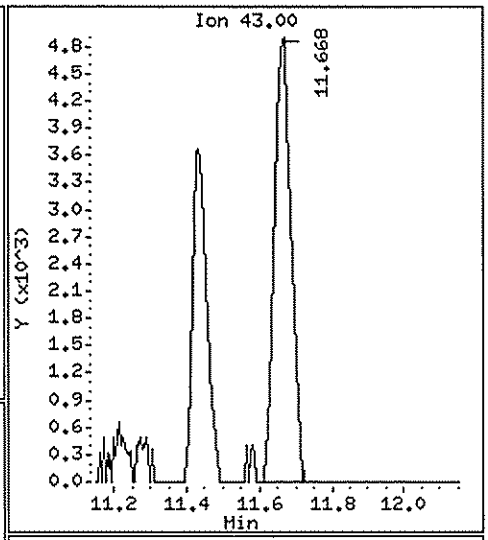
52 Heptane Concentration: 0.2289 ppb(v/v)

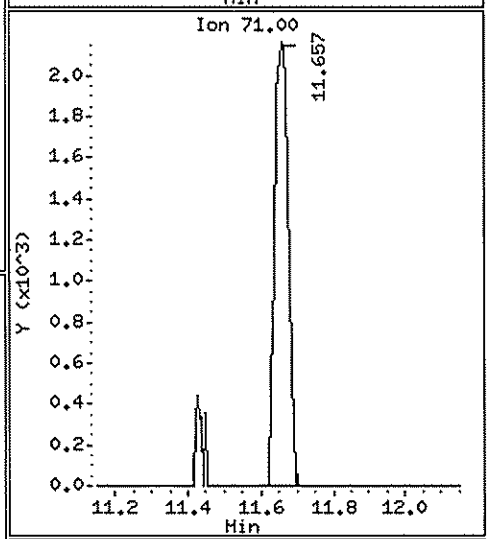


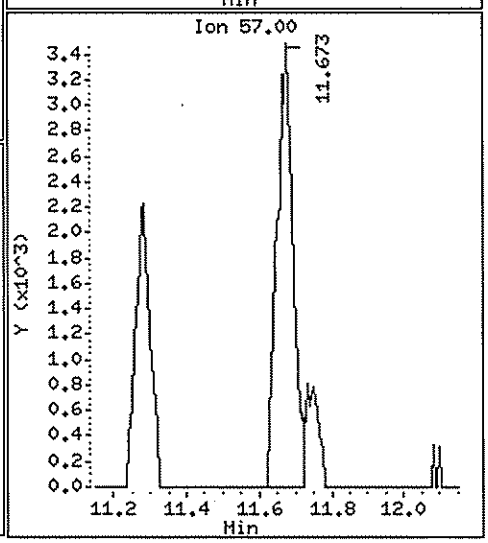












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjr.d

Date : 17-APR-2007 08:05

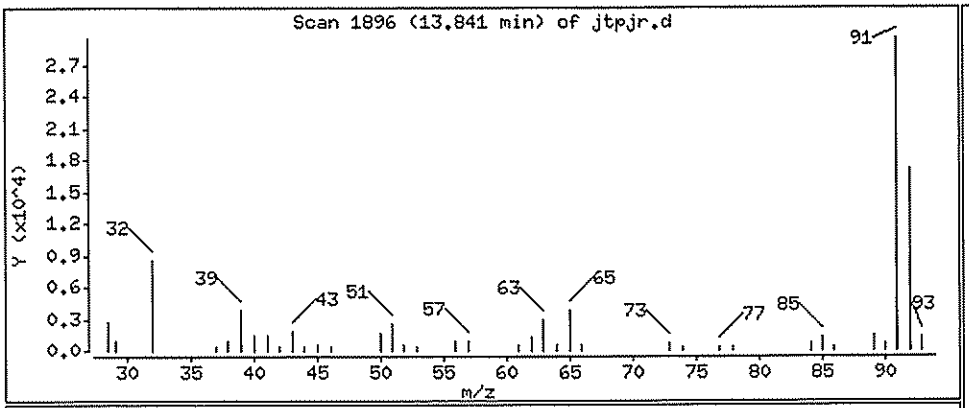
Client ID: OUTDOOR 2 (A.A) Instrument: mj.i

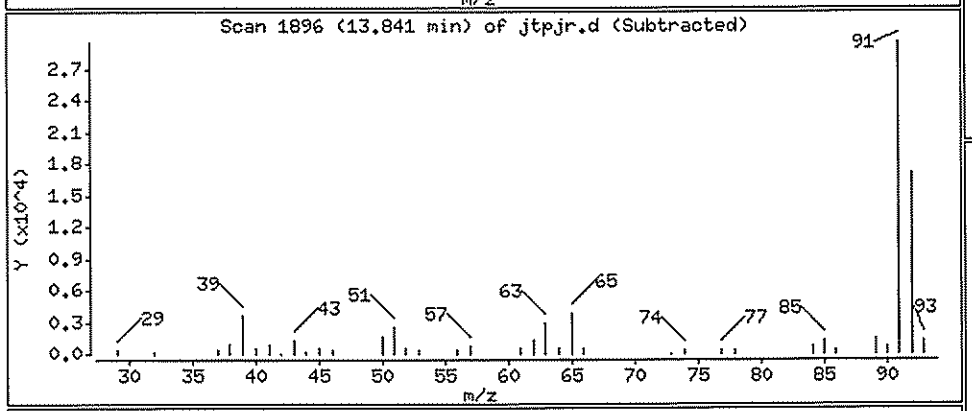
Sample Info: JTPJR1AD,,0,,,

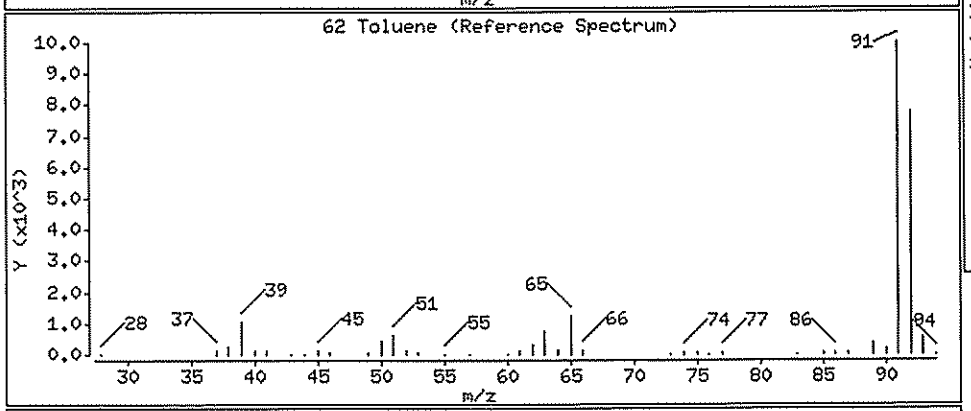
Purge Volume: 500.0 Operator: 7126

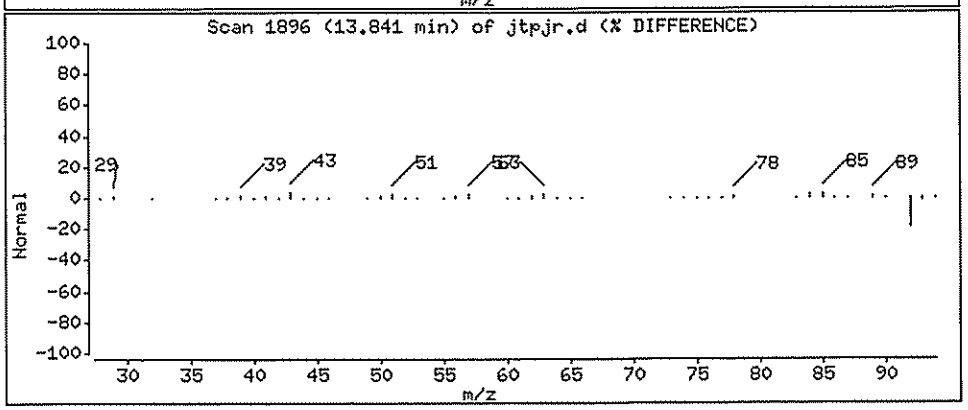
Column phase: Rtx-5 Column diameter: 0.32

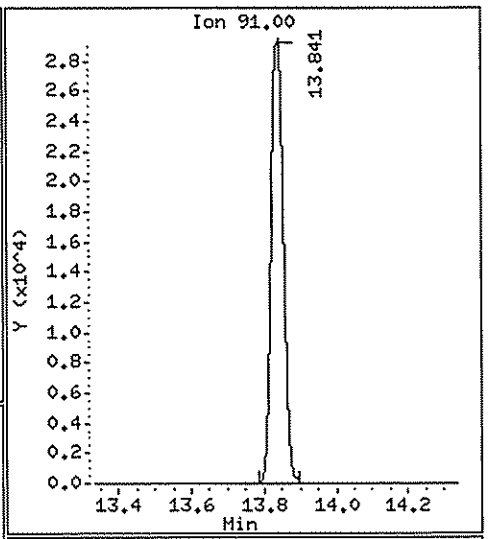
62 Toluene Concentration: 0.5946 ppb(v/v)

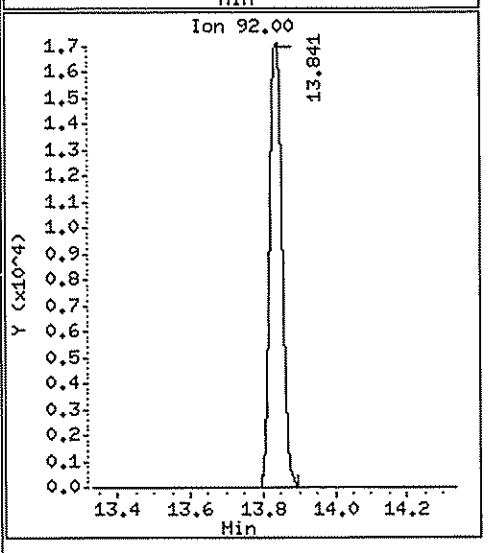












Data File: /var/chem/gcms/mj.i/J041607.b/jtpjr.d

Date : 17-APR-2007 08:05

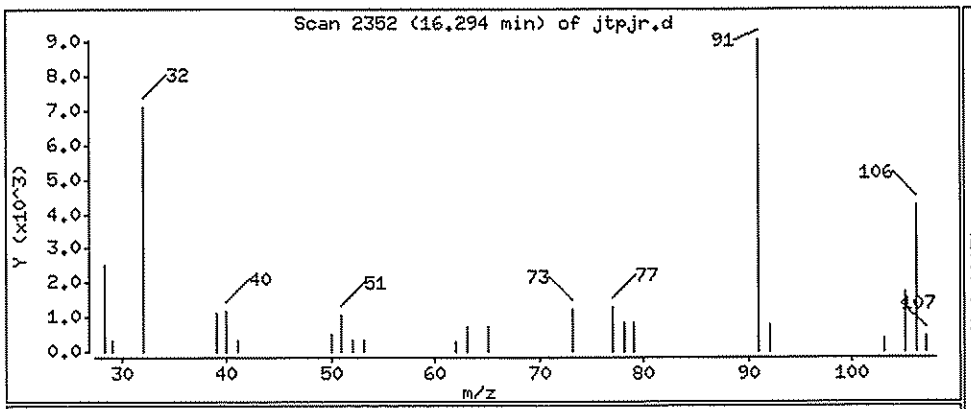
Client ID: OUTDOOR 2 (A.A) Instrument: mj.i

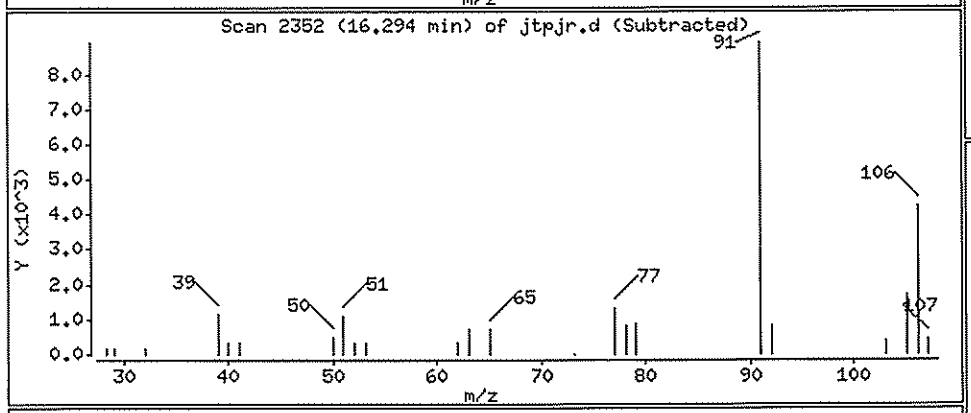
Sample Info: JTPJR1AD,,0,,,

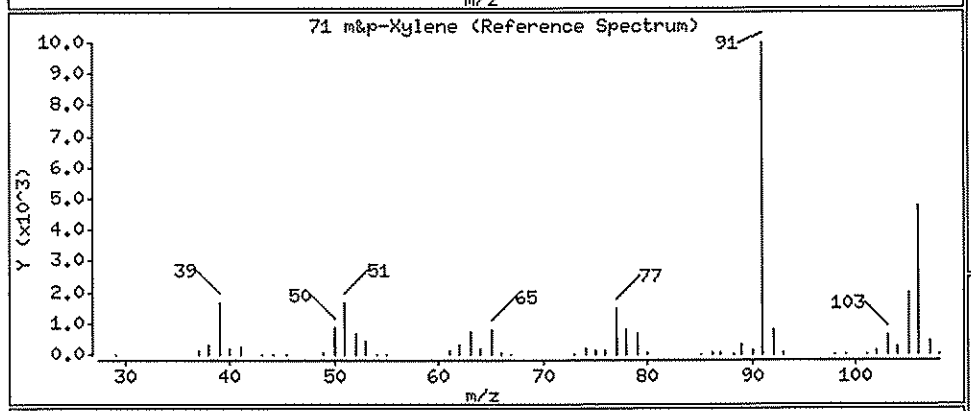
Purge Volume: 500.0 Operator: 7126

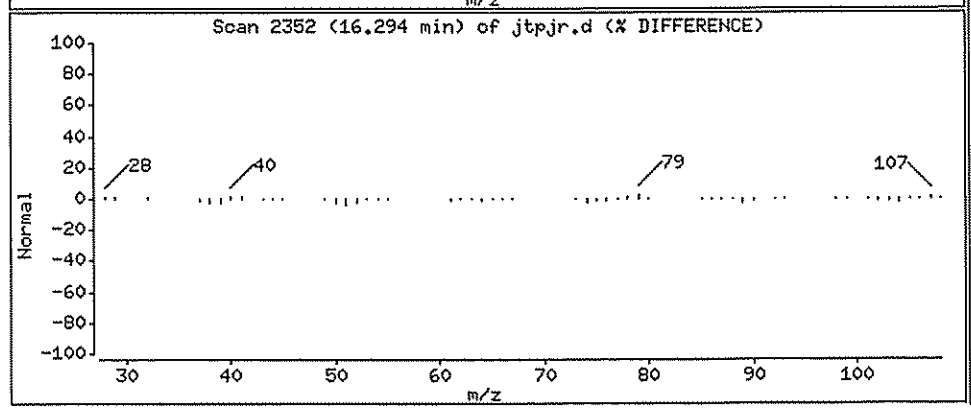
Column phase: Rtx-5 Column diameter: 0.32

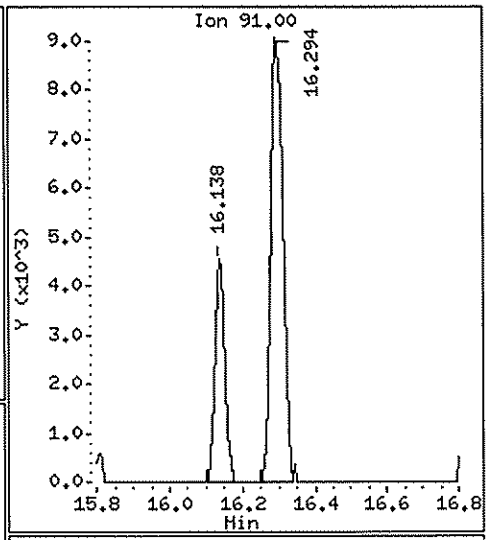
71 m&p-Xylene Concentration: 0.2000 ppb(v/v)

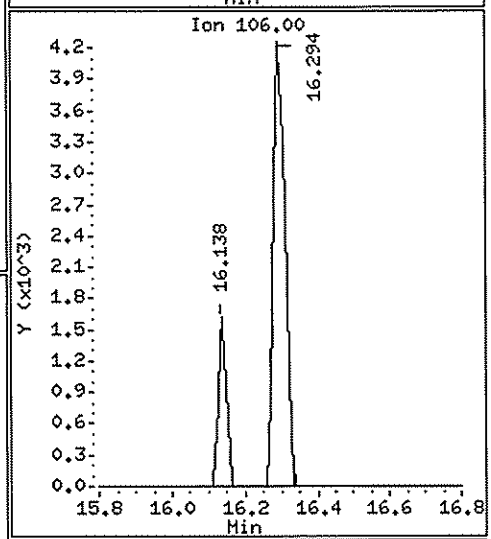


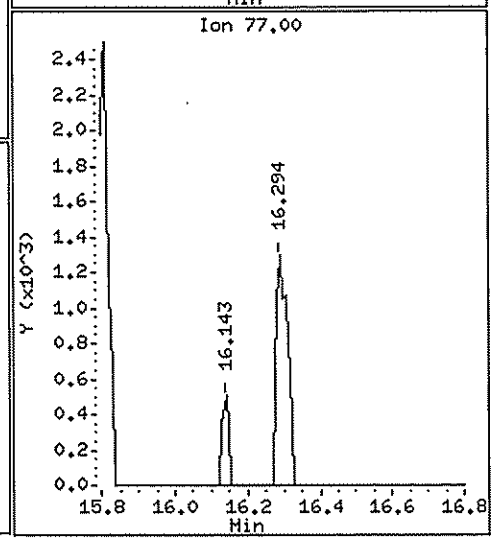












Standards Data

STL Knoxville GC/MS Air Initial Calibration Data Review / Narrative Checklist
Method: TO-14 and TO-15 - KNOX-MS-0001, Rev 9

Analysis Date:	3/16/07	Instrument::	MJ	ICAL Batch/Scan Name:	J031607I	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 24 hr of BFB?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Is low level std at or <RL and are the remaining points consecutive?		✓			✓
5. Were at least 5 levels of each compound analyzed?		✓			✓
6. Is %RSD for all target analytes ≤ 30%? (with up to 2 compounds with RSD ≤ 40%)		✓			✓
7. Have all peaks been auto identified? If not, list:		✓			✓
8. If curves were used, is correlation coefficient ≥0.990?	✓				NA
9. At least 6 consecutive points used for quadratic curves, and at least 5 consecutive points for linear curves?	✓				NA
10. For linear or quadratic: is a tangent's slope to the curve entirely positive or negative and continuous.	✓				NA
11. For linear or quadratic: origin NOT included or forced?	✓				NA
12. Is the "Y" intercept less than the RL for each curve?	✓				NA
13. RT for each IS ±20 sec avg. RT?		✓			✓
14. Area for each IS ± 40% avg. area?		✓			✓
15. Each analyte ± 0.06 RRT of avg. RRT?		✓			✓
16. 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
17. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in ICAL summary?	✓				NA
18. Was ICAL summary form processed using correct methods and files?		✓			✓
19. Are the ICAL start and end dates/times correct on ICAL summary?		✓			✓
20. Elution order checked on isomeric pairs?					
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane		✓			✓
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane		✓			✓
• vinyl acetate / hexane		✓			✓
• cis- and trans- isomers		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• 4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
21. Is the second source analysis of a reference standard within limits? (65-135% R; 20-180% for benzyl chloride)		✓			✓
22. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
23. Does the ICAL folder contain complete data in the following order: Data review checklist, a complete runlog, Entech report, BFB info, ICAL summary, curves, followed by [Quan reports, chromatograms, manual integrations] in increasing amount order.		✓			✓

Analyst:	Date: 3/19/07	2nd Level Reviewer :	Date: 3/20/07
Comments:		Comments:	

BCLP03269

STL Knoxville
TO-14/15 RUN LOG

GCMS Analysis: TO-14/15 Inst: **MJ**

Analyst: KBL Qtims Batch: n/A

Date: 3/16/07 ICAL Batch: J031607I Target Batch: J031607I IS #1 Area: 203487

Surr/IS ID & Vol.: 20mL V176 System Date/Time ok (y/n): y

Preventive Maintenance Performed ☐ Daily

Time	Use	Lot No.	File ID	Can #	Pos	Vol* (mL)	Can DF	Comments
0825	✓	tune	JBFBC16	—	14	100	1	
0931	✓	ICAL 9	JICC169	CX1505	1	19		
1009	✓	1	1			40		
1046	✓	2	2			80		
1125	✓	3	3			160		
1203	✓	4	4	CX1494	15	18		
1242	✓	5	5			40		
1319	✓	6	6			80		
1356	✓	7	7			160		
1436	✓	8	8			240		
1519	N	blk	blank	—	16	200		
1557	✓	ICV	JICVC16	CX1495	14	40		

3/19/07

* Entech programmed Volume. If the Entech report amount differs from the programmed amount by >5%, the Entech report amount is used for calulations.

Analyst: [signature] Date: 3/19/07

070316

STL-Knoxville
TO-14 Autosampler Log

Sample	Position/Volume	Date	Time
BFB	16 - 101 mL	3/16/2007	8:25:03 AM
ICAL9	1 - 19 mL	3/16/2007	9:31:26 AM
ICAL1	1 - 41 mL	3/16/2007	10:09:03 AM
ICAL2	1 - 81 mL	3/16/2007	10:46:44 AM
ICAL3	1 - 161 mL	3/16/2007	11:25:44 AM
ICAL4	15 - 18 mL	3/16/2007	12:03:00 PM
ICAL5	15 - 41 mL	3/16/2007	12:42:15 PM
ICAL6	15 - 81 mL	3/16/2007	1:19:03 PM
ICAL7	15 - 161 mL	3/16/2007	1:56:04 PM
ICAL8	15 - 241 mL	3/16/2007	2:36:51 PM
BLK	16 - 201 mL	3/16/2007	3:19:37 PM
ICV	14 - 41 mL	3/16/2007	3:57:27 PM

Data File: /var/chem/gcms/mj.i/J031607I.b/jbfbc16.d

Date : 16-MAR-2007 08:25

Client ID: BFB

Instrument: mj.i

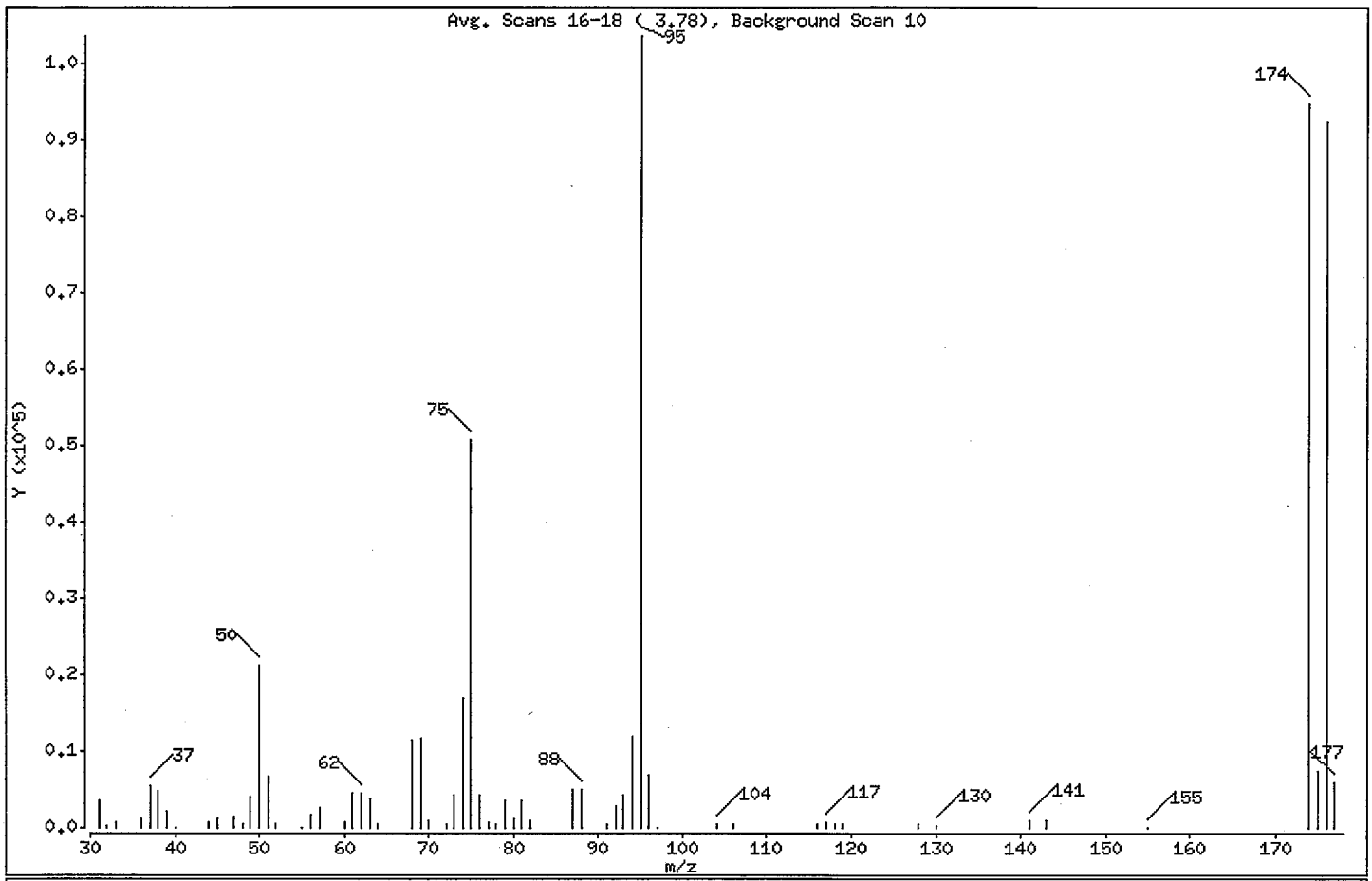
Sample Info: BFB,,3,,,BFB

Operator: 3386

Column phase: Rtx-5

Column diameter: 0.32

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	20.55
75	30.00 - 60.00% of mass 95	48.98
96	5.00 - 9.00% of mass 95	6.67
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	91.50
175	5.00 - 9.00% of mass 174	7.12 (7.78)
176	95.00 - 101.00% of mass 174	89.24 (97.53)
177	5.00 - 9.00% of mass 176	5.65 (6.33)

Data File: /var/chem/gcms/mj.i/J031607I.b/jbfbc16.d

Date : 16-MAR-2007 08:25

Client ID: BFB

Instrument: mj.i

Sample Info: BFB,,3,,,BFB

Operator: 3386

Column phase: Rtx-5

Column diameter: 0.32

Data File: jbfbc16.d
Spectrum: Avg. Scans 16-18 (3.78), Background Scan 10
Location of Maximum: 95.00
Number of points: 62

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	3606	55.00	101	77.00	762	106.00	447
32.00	221	56.00	1572	78.00	475	116.00	398
33.00	739	57.00	2688	79.00	3601	117.00	688
36.00	1106	60.00	799	80.00	1115	118.00	370
37.00	5375	61.00	4546	81.00	3580	119.00	475
38.00	4757	62.00	4619	82.00	846	128.00	369
39.00	2100	63.00	3780	87.00	4891	130.00	293
40.00	54	64.00	389	88.00	5014	141.00	1006
44.00	684	68.00	11343	91.00	506	143.00	956
45.00	1092	69.00	11593	92.00	2746	155.00	114
47.00	1341	70.00	933	93.00	4358	174.00	94816
48.00	567	72.00	406	94.00	11976	175.00	7380
49.00	4151	73.00	4196	95.00	103624	176.00	92472
50.00	21296	74.00	16816	96.00	6911	177.00	5855
51.00	6681	75.00	50760	97.00	103		
52.00	431	76.00	4227	104.00	459		

Data File: /var/chem/gcms/mj.i/J031607I.b/jbfbc16.d

Date : 16-MAR-2007 08:25

Client ID: BFB

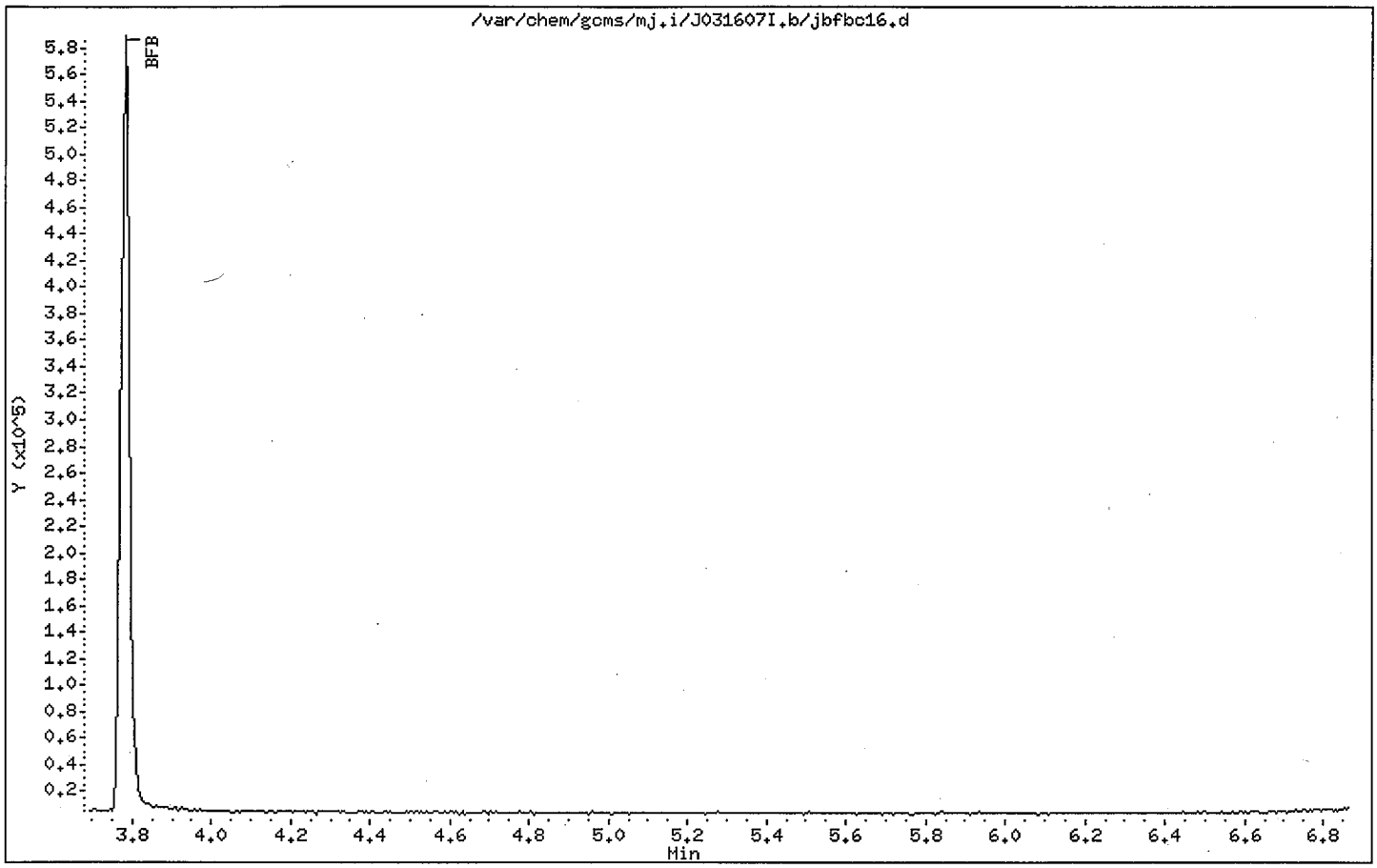
Instrument: mj.i

Sample Info: BFB,,3,,,BFB

Operator: 3386

Column phase: Rtx-5

Column diameter: 0.32



Report Date : 19-Mar-2007 19:14

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2007 09:31
End Cal Date : 16-MAR-2007 14:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mj.i/J031607I.b/TO15.m
Cal Date : 19-Mar-2007 19:08 tajh
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/gcms/mj.i/J031607I.b/jicc161.d
Level 2: /var/chem/gcms/mj.i/J031607I.b/jicc162.d
Level 3: /var/chem/gcms/mj.i/J031607I.b/jicc163.d
Level 4: /var/chem/gcms/mj.i/J031607I.b/jicc164.d
Level 5: /var/chem/gcms/mj.i/J031607I.b/jicc165.d
Level 6: /var/chem/gcms/mj.i/J031607I.b/jicc166.d
Level 7: /var/chem/gcms/mj.i/J031607I.b/jicc167.d
Level 8: /var/chem/gcms/mj.i/J031607I.b/jicc168.d
Level 9: /var/chem/gcms/mj.i/J031607I.b/jicc169.d

Compound	0.08000 Level 1	0.16000 Level 2	0.32000 Level 3	1.800 Level 4	4.000 Level 5	8.000 Level 6	RRF	% RSD
	16.000 Level 7	24.000 Level 8	0.03800 Level 9					
7 Chlorodifluoromethane	2.61706	2.70990	2.26882	3.37690	2.75966	2.30252		
	2.61238	1.91965	2.90725				2.60826	16.019
8 Dichlorodifluoromethane	4.46549	4.91608	4.32971	6.33481	5.26701	4.37425		
	4.93349	3.57627	4.97925				4.79738	15.890
9 Propene	1.10239	1.15183	1.00155	1.38869	1.13934	0.95163		
	1.06878	0.78823	+++++				1.07406	16.206
10 Chloromethane	+++++	0.56477	0.42320	0.49551	0.39773	0.31744		
	0.35073	0.25312	+++++				0.40036	26.518
11 1,2-Dichlorotetrafluoroethane	2.39081	2.46621	2.26771	3.31065	2.76869	2.25948		
	2.49828	1.78484	2.40560				2.46139	16.758

Report Date : 19-Mar-2007 19:14

STL Knoxville

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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mj.i/J031607I.b/TO15.m
Cal Date : 19-Mar-2007 19:08 tajh
Curve Type : Average

Compound	0.08000 Level 1	0.16000 Level 2	0.32000 Level 3	1.800 Level 4	4.000 Level 5	8.000 Level 6	RRF	% RSD
	16.000 Level 7	24.000 Level 8	0.03800 Level 9					
12 Methanol	+++++	+++++	+++++	0.32181	0.32225	0.31202		
	0.36402	0.30868	+++++				0.32576	6.816
13 Vinyl Chloride	1.19358	1.23933	1.11424	1.63583	1.42632	1.18242		
	1.34578	0.99172	1.31626				1.27173	14.771
14 n-Butane	+++++	1.92425	1.63090	2.28414	1.93947	1.59995		
	1.82497	1.33717	+++++				1.79155	16.934
15 1,3-Butadiene	0.69099	0.81727	0.73548	1.09411	0.93495	0.76670		
	0.87297	0.64164	0.77486				0.81433	16.890
16 Bromomethane	1.49552	1.52514	1.34457	2.05139	1.72111	1.42293		
	1.61596	1.17797	1.51249				1.54080	15.997
17 Chloroethane	0.62862	0.68648	0.62078	0.90433	0.77524	0.64903		
	0.73474	0.54485	0.48052				0.66945	18.776
18 Vinyl Bromide	1.35251	1.49028	1.27950	2.15572	1.63132	1.33636		
	1.52401	1.12207	1.54168				1.49262	19.663
19 2-methyl butane	1.46348	1.62781	1.45064	2.02880	1.73711	1.42631		
	1.65535	1.22350	1.56331				1.57518	14.462
20 Trichlorofluoromethane	4.48270	4.77194	4.22975	6.21451	5.40954	4.43738		
	5.04832	3.63647	4.74880				4.77550	15.429

Report Date : 19-Mar-2007 19:14

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Method file : /var/chem/gcms/mj.i/J031607I.b/TO15.m
Cal Date : 19-Mar-2007 19:08 tajh
Curve Type : Average

Compound	0.08000 Level 1	0.16000 Level 2	0.32000 Level 3	1.800 Level 4	4.000 Level 5	8.000 Level 6	RRF	% RSD
	16.000 Level 7	24.000 Level 8	0.03800 Level 9					
21 Acrolein	+++++	0.29619	0.30702	0.29522	0.31780	0.32847		
	0.39103	0.34650	+++++				0.32603	10.416
22 Acetonitrile	+++++	0.61014	0.47510	0.30272	0.34546	0.37083		
	0.45070	0.41447	+++++				0.42420	23.918
23 Acetone	+++++	+++++	+++++	0.27921	0.33532	0.36104		
	0.44038	0.40529	+++++				0.36425	17.122
24 Pentane	+++++	0.36826	0.36652	0.47517	0.41677	0.34465		
	0.38852	0.28637	+++++				0.37804	15.571
25 Isopropyl alcohol	1.16670	1.48548	1.48828	2.05849	1.52155	1.36888		
	1.76264	1.54483	+++++				1.54961	17.114
26 Ethyl Ether	+++++	1.16531	1.29585	0.72603	1.17478	1.15003		
	1.36152	1.20219	+++++				1.15367	17.667
27 1,1-Dichloroethene	1.32111	1.38826	1.18579	1.90847	1.47792	1.17204		
	1.33410	0.95995	1.62772				1.37507	20.134
28 tert-butanol	1.45982	1.93527	1.90438	2.95371	2.09672	1.86492		
	2.43562	2.07346	+++++				2.09049	21.177
29 Acrylonitrile	0.37678	0.58914	0.67844	0.53221	0.59872	0.61283		
	0.70788	0.63543	+++++				0.59143	17.286

Report Date : 19-Mar-2007 19:14

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2007 09:31
End Cal Date : 16-MAR-2007 14:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mj.i/J031607I.b/TO15.m
Cal Date : 19-Mar-2007 19:08 tajh
Curve Type : Average

Compound	0.08000 Level 1	0.16000 Level 2	0.32000 Level 3	1.800 Level 4	4.000 Level 5	8.000 Level 6	RRF	% RSD
	16.000 Level 7	24.000 Level 8	0.03800 Level 9					
30 1,1,2-Trichlorotrifluoroethan	2.69233	2.74710	2.43849	3.51532	3.14375	2.61220		
	2.84643	2.12919	2.61843				2.74927	14.504
31 Methylene Chloride	+++++	1.38243	1.13866	1.42755	1.26361	1.03579		
	1.13814	0.86202	+++++				1.17831	16.781
32 3-Chloropropene	1.38756	1.40434	1.26157	1.70173	1.57922	1.30686		
	1.43830	1.12938	1.63023				1.42662	12.941
33 Carbon Disulfide	3.98827	4.23932	3.78152	5.44773	4.63467	3.91754		
	4.48507	3.29346	+++++				4.22345	15.360
34 2,3-Dimethyl butane	3.16159	3.27648	2.97014	4.14115	3.72394	3.06996		
	3.37960	2.56133	3.42449				3.30101	13.700
35 trans-1,2-Dichloroethene	1.47036	1.52100	1.28122	1.81589	1.61701	1.34772		
	1.48683	1.12013	1.62419				1.47606	13.980
36 Methyl-t-Butyl Ether	2.13919	2.77665	3.03992	2.15297	2.71300	2.79228		
	3.38567	2.93808	+++++				2.74222	15.449
37 1,1-Dichloroethane	2.43770	2.60931	2.41517	2.82137	2.88488	2.38089		
	2.49924	2.01156	2.64762				2.52311	10.337
38 Vinyl Acetate	1.34025	1.96003	2.42692	1.52827	1.95078	2.20019		
	2.70404	2.41234	+++++				2.06535	22.530

Report Date : 19-Mar-2007 19:14

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 16-MAR-2007 09:31
End Cal Date : 16-MAR-2007 14:36
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mj.i/J031607I.b/TO15.m
Cal Date : 19-Mar-2007 19:08 tajh
Curve Type : Average

Compound	0.08000 Level 1	0.16000 Level 2	0.32000 Level 3	1.800 Level 4	4.000 Level 5	8.000 Level 6	RRF	% RSD
	16.000 Level 7	24.000 Level 8	0.03800 Level 9					
39 Hexane	1.03142	1.08028	0.96771	1.24527	1.18887	0.98340		
	1.01477	0.81433	0.91675				1.02701	12.862
40 2-Butanone	+++++	0.34363	0.42534	0.32934	0.36612	0.37939		
	0.48468	0.45098	+++++				0.39707	14.574
41 cis 1,2-Dichloroethene	1.37143	1.48146	1.27173	1.50603	1.53203	1.28445		
	1.35683	1.08027	1.55627				1.38233	11.200
42 Ethyl acetate	1.11336	1.69067	1.93756	1.41814	1.64744	1.69903		
	2.18714	2.07762	+++++				1.72137	20.352
43 Chloroform	3.16782	3.31627	2.98385	3.04220	3.44690	2.93382		
	3.09706	2.51578	3.23983				3.08262	8.692
44 Tetrahydrofuran	0.63980	0.84073	1.04269	0.75216	0.91615	0.94834		
	1.15237	1.05060	+++++				0.91786	18.409
45 1,1,1-Trichloroethane	3.34675	3.64254	3.25244	3.62784	3.90956	3.34686		
	3.46304	2.79966	3.59406				3.44253	9.091
46 1,2-Dichloroethane	0.58612	0.68252	0.55628	0.48062	0.63549	0.51371		
	0.58362	0.45552	0.55430				0.56092	12.817
47 Cyclohexane	0.16239	0.20119	0.15002	0.21852	0.19274	0.14664		
	0.16313	0.11754	0.19945				0.17240	18.864

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Curve Type : Average

Compound	0.08000 Level 1	0.16000 Level 2	0.32000 Level 3	1.800 Level 4	4.000 Level 5	8.000 Level 6	RRF	% RSD
	16.000 Level 7	24.000 Level 8	0.03800 Level 9					
48 1-Butanol	+++++	0.11660	0.10326	0.18597	0.12341	0.10384		
	0.14909	0.11696	+++++				0.12845	23.080
49 Benzene	1.10432	1.20559	0.96340	0.84839	0.97457	0.77275		
	0.83771	0.62963	1.33742				0.96376	23.065
50 Carbon Tetrachloride	3.51794	3.90178	3.35582	3.87199	4.22583	3.52131		
	3.62156	2.78386	3.67456				3.60831	11.175
51 2,2,4-trimethylpentane	1.67158	1.84860	1.45821	1.67360	1.65035	1.29227		
	1.44024	1.07919	2.19378				1.58977	20.361
52 Heptane	0.61728	0.70809	0.53393	0.62959	0.61502	0.48151		
	0.55136	0.42112	+++++				0.56974	16.049
53 1,2-Dichloropropane	0.29103	0.37794	0.31304	0.24015	0.33283	0.27676		
	0.31849	0.25194	0.24105				0.29370	15.828
54 Trichloroethene	0.63400	0.69099	0.49445	0.60889	0.62728	0.45530		
	0.48612	0.34167	0.73820				0.56412	22.562
55 Dibromomethane	0.55385	0.60035	0.46164	0.48497	0.53096	0.42505		
	0.47912	0.35658	0.61339				0.50067	16.581
56 Bromodichloromethane	0.86806	1.05207	0.83504	0.72733	0.94582	0.77118		
	0.89658	0.66881	0.81196				0.84188	13.780

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Curve Type : Average

Compound	0.08000 Level 1	0.16000 Level 2	0.32000 Level 3	1.800 Level 4	4.000 Level 5	8.000 Level 6	RRF	% RSD
	16.000 Level 7	24.000 Level 8	0.03800 Level 9					
57 1,4-dioxane	0.06374	0.15639	0.13900	0.21646	0.15192	0.12620		
	0.16811	0.14803	+++++				0.14623	29.251
58 Methyl Methacrylate	0.20683	0.30330	0.30707	0.29737	0.28440	0.27460		
	0.37935	0.33590	+++++				0.29860	16.604
59 4-Methyl-2-pentanone	0.28747	0.46455	0.43993	0.57899	0.45565	0.37735		
	0.54201	0.48450	+++++				0.45381	20.096
60 cis-1,3-Dichloropropene	0.51138	0.64176	0.53792	0.42399	0.58045	0.48459		
	0.58431	0.44966	0.49382				0.52311	13.351
61 trans-1,3-Dichloropropene	0.65174	0.68167	0.61246	0.48334	0.63154	0.56520		
	0.66732	0.57231	0.60711				0.60809	10.084
62 Toluene	1.14302	1.24883	1.06431	0.81032	1.06009	0.94410		
	1.09513	0.94157	1.06501				1.04138	12.265
63 1,1,2-Trichloroethane	0.41568	0.45253	0.39750	0.30349	0.39808	0.34989		
	0.41252	0.34866	0.30808				0.37628	13.615
64 2-Hexanone	0.15425	0.21870	0.22267	0.31232	0.24018	0.20666		
	0.27963	0.26677	0.21135				0.23474	19.810
65 Octane	0.43937	0.44940	0.35749	0.40198	0.38365	0.31988		
	0.36473	0.29778	0.39998				0.37938	13.296

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Curve Type : Average

Compound	0.08000 Level 1	0.16000 Level 2	0.32000 Level 3	1.800 Level 4	4.000 Level 5	8.000 Level 6	RRF	% RSD
	16.000 Level 7	24.000 Level 8	0.03800 Level 9					
66 Dibromochloromethane	0.85652	0.92849	0.80933	0.71826	0.91095	0.76978		
	0.89197	0.72494	0.74928				0.81774	10.001
67 1,2-Dibromoethane	0.68501	0.77365	0.66868	0.51948	0.68108	0.58410		
	0.68100	0.56706	0.60269				0.64032	12.151
68 Tetrachloroethene	0.59087	0.60104	0.46464	0.49034	0.47745	0.38955		
	0.43499	0.35114	0.61576				0.49065	19.273
69 Chlorobenzene	0.91908	1.04444	0.86442	0.74048	0.87303	0.74886		
	0.84962	0.72219	0.89146				0.85041	12.021
70 Ethylbenzene	1.22712	1.44372	1.26727	1.12948	1.19896	1.09460		
	1.31435	1.14682	1.27555				1.23311	8.720
71 m&p-Xylene	0.90087	1.12371	0.99641	0.93919	0.91850	0.84288		
	0.99086	0.85280	1.02177				0.95411	9.334
72 Nonane	0.66899	0.74972	0.63312	0.66822	0.70924	0.60278		
	0.69694	0.56321	0.57433				0.65186	9.712
73 Bromoform	0.77586	0.86908	0.73591	0.74627	0.84684	0.72688		
	0.83253	0.66122	0.67307				0.76308	9.724
74 Styrene	0.56595	0.72209	0.63988	0.65437	0.63723	0.58450		
	0.68614	0.58857	0.54396				0.62475	9.368

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Curve Type : Average

Compound	0.08000 Level 1	0.16000 Level 2	0.32000 Level 3	1.800 Level 4	4.000 Level 5	8.000 Level 6	RRF	% RSD
	16.000 Level 7	24.000 Level 8	0.03800 Level 9					
75 o-Xylene	0.96324	1.18904	1.10656	1.01281	0.96584	0.93778		
	1.12006	0.97846	1.06038				1.03713	8.334
76 1,1,2,2-Tetrachloroethane	0.62230	0.82052	0.79357	0.82347	0.66202	0.64085		
	0.78488	0.66233	0.77201				0.73133	11.284
77 1,2,3-Trichloropropane	0.17534	0.22569	0.21957	0.22518	0.18832	0.17694		
	0.21642	0.18780	0.18581				0.20012	10.561
78 Cumene	1.30678	1.53652	1.47149	1.39863	1.29582	1.25872		
	1.48188	1.28136	1.52773				1.39545	8.020
79 a-Pinene	1.29965	1.33554	1.27650	1.16119	1.27125	1.10431		
	1.23490	0.99327	1.14303				1.20219	9.161
80 n-Propylbenzene	0.31556	0.39887	0.37286	0.39554	0.32484	0.30778		
	0.36263	0.31329	0.33141				0.34698	10.369
81 Camphene	0.73546	0.83750	0.78649	0.69723	0.77544	0.68834		
	0.75999	0.61056	0.66321				0.72827	9.615
82 2-chlorotoluene	0.35765	0.42736	0.37011	0.35360	0.35191	0.31707		
	0.37208	0.30712	0.38409				0.36012	9.878
83 4-Ethyltoluene	1.12170	1.44697	1.42652	1.53100	1.22428	1.19288		
	1.44248	1.25462	1.37952				1.33557	10.499

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Curve Type : Average

Compound	0.08000 Level 1	0.16000 Level 2	0.32000 Level 3	1.800 Level 4	4.000 Level 5	8.000 Level 6	RRF	% RSD
	16.000 Level 7	24.000 Level 8	0.03800 Level 9					
84 1,3,5-Trimethylbenzene	0.41070	0.52234	0.55388	0.56721	0.44749	0.45835		
	0.53526	0.48496	0.45991				0.49335	10.883
85 b-Pinene	0.89094	1.00127	0.99925	0.97391	1.01192	0.88882		
	0.98521	0.81183	0.81082				0.93044	8.743
86 Alpha-Methylstyrene	0.36784	0.50178	0.48490	0.61590	0.48919	0.47875		
	0.58180	0.49766	0.43477				0.49475	14.712
87 Decane	0.61601	0.73512	0.68206	0.83489	0.79856	0.70130		
	0.80014	0.65930	0.57775				0.71169	12.359
88 1,2,4-Trimethylbenzene	0.85245	1.09970	1.11415	1.25044	0.93475	0.92496		
	1.11313	0.93226	1.11789				1.03776	12.556
89 tert-butylbenzene	1.01782	1.24459	1.30033	1.31568	1.01829	1.01237		
	1.19546	1.02638	1.30129				1.15915	11.902
90 sec-butylbenzene	1.35255	1.71492	1.69604	1.80940	1.40937	1.37003		
	1.61560	1.37974	1.67111				1.55765	11.449
91 1,3-Dichlorobenzene	0.78445	0.91932	0.76979	0.77760	0.72066	0.62063		
	0.71934	0.57476	0.85667				0.74927	14.287
92 Benzyl Chloride	0.92322	1.00258	0.98291	1.12900	0.87278	0.82142		
	1.01994	0.83628	+++++				0.94852	11.051

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	16.000 Level 7	24.000 Level 8	0.03800 Level 9					
93 1,4-Dichlorobenzene	0.78798	0.86776	0.75590	0.76125	0.69620	0.59818		
	0.69315	0.54141	0.87175				0.73040	15.271
94 p-Cymene	1.03423	1.32243	1.38850	1.52048	1.15048	1.12943		
	1.35136	1.17933	1.43060				1.27855	12.647
95 d-Limonene	0.32530	0.43990	0.44877	0.61130	0.53660	0.51011		
	0.60724	0.52164	+++++				0.50011	18.903
96 1,2-Dichlorobenzene	0.72074	0.86694	0.73350	0.73297	0.64274	0.57863		
	0.67484	0.54970	0.83736				0.70418	15.104
97 n-butylbenzene	0.91632	1.13892	1.19134	1.45974	1.06877	1.02617		
	1.24044	1.09265	1.28018				1.15718	13.742
98 Undecane	0.51941	0.66695	0.70546	0.92833	0.72341	0.67452		
	0.80924	0.69556	+++++				0.71536	16.467
99 4-tert-Butyltoluene	0.91340	1.07980	1.17524	1.57645	1.11661	1.05489		
	1.29356	1.14923	1.22930				1.17652	15.735
100 Camphor	+++++	+++++	+++++	0.55801	0.32752	0.28496		
	0.40736	0.31461	+++++				0.37849	29.089
101 Dodecane	+++++	0.54981	0.45828	0.91446	0.59064	0.52951		
	0.72004	0.61237	+++++				0.62501	24.152

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	16.000 Level 7	24.000 Level 8	0.03800 Level 9					
102 1,2,4-Trichlorobenzene	0.39675	0.53891	0.45838	0.51403	0.36672	0.34210		
	0.43746	0.34400	+++++				0.42479	17.751
103 Napthalene	0.71031	0.94185	0.78927	1.03676	0.68209	0.64456		
	0.86447	0.73108	+++++				0.80005	17.119
104 Hexachlorobutadiene	0.65542	0.76682	0.70710	0.68409	0.55294	0.50753		
	0.60013	0.49871	+++++				0.62159	15.708
105 1,2,3-trichlorobenzene	0.40679	0.53636	0.43623	0.49482	0.33087	0.31654		
	0.40373	0.33149	+++++				0.40710	19.693
$ 4 1,2-Dichloroethane-d4	0.27538	0.26308	0.26249	0.24560	0.24645	0.24995		
	0.24232	0.24358	0.26192				0.25453	4.524
$ 5 Toluene-d8	1.00818	0.94607	1.00136	0.96061	0.95480	1.00178		
	0.94423	0.97920	0.96437				0.97340	2.573
$ 6 4-Bromofluorobenzene	0.78740	0.81418	0.80201	0.83642	0.82183	0.81686		
	0.81914	0.78243	0.78400				0.80714	2.368

Report Date:03/19/2007

INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/mj.i/J031607I.b/jicc169.d
STD 2 = /var/chem/gcms/mj.i/J031607I.b/jicc161.d
STD 3 = /var/chem/gcms/mj.i/J031607I.b/jicc162.d
STD 4 = /var/chem/gcms/mj.i/J031607I.b/jicc163.d
STD 5 = /var/chem/gcms/mj.i/J031607I.b/jicc164.d
STD 6 = /var/chem/gcms/mj.i/J031607I.b/jicc165.d
STD 7 = /var/chem/gcms/mj.i/J031607I.b/jicc166.d
STD 8 = /var/chem/gcms/mj.i/J031607I.b/jicc167.d
STD 9 = /var/chem/gcms/mj.i/J031607I.b/jicc168.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	STD 9	MEAN
1,4-Difluorobenzene	11.104	11.101	11.100	11.104	11.104	11.105	11.105	11.105	11.105	11.104
Chlorobenzene-d5	15.822	15.824	15.823	15.822	15.822	15.823	15.823	15.822	15.823	15.823
Bromochloromethane	8.915	8.917	8.910	8.915	8.915	8.916	8.916	8.915	8.916	8.915
1,2-Dichloroethane-d4	0.894	0.894	0.894	0.894	0.894	0.894	0.894	0.894	0.894	0.894
4-Bromofluorobenzene	1.103	1.103	1.103	1.103	1.103	1.103	1.103	1.104	1.103	1.103
Toluene-d8	0.869	0.868	0.868	0.868	0.869	0.869	0.869	0.869	0.869	0.869
1,4-Dichlorobenzene	1.199	1.199	1.199	1.199	1.199	1.199	1.199	1.199	1.199	1.199
p-Cymene	1.203	1.202	1.202	1.202	1.202	1.202	1.202	1.202	1.202	1.202
d-Limonene	NA	1.207	1.207	1.207	1.207	1.207	1.207	1.207	1.207	1.207
Chlorodifluoromethane	0.416	0.416	0.416	0.417	0.416	0.416	0.416	0.416	0.416	0.416
Dichlorodifluoromethane	0.423	0.423	0.423	0.424	0.423	0.424	0.423	0.423	0.423	0.423
1,2-Dichlorobenzene	1.222	1.221	1.221	1.221	1.221	1.221	1.221	1.222	1.222	1.221
Chloromethane	NA	NA	0.444	0.444	0.444	0.445	0.444	0.444	0.444	0.444
1,2-Dichlorotetrafluoroethan	0.444	0.444	0.444	0.445	0.444	0.445	0.444	0.444	0.444	0.444
Methanol	NA	NA	NA	NA	0.460	0.460	0.459	0.459	0.459	0.459
Vinyl Chloride	0.464	0.464	0.463	0.464	0.463	0.464	0.463	0.463	0.463	0.463
n-Butane	NA	NA	0.473	0.474	0.473	0.473	0.473	0.473	0.473	0.473
1,3-Butadiene	0.473	0.473	0.473	0.474	0.473	0.474	0.473	0.473	0.473	0.473
Bromomethane	0.509	0.510	0.510	0.511	0.510	0.511	0.510	0.509	0.510	0.510
Chloroethane	0.526	0.525	0.525	0.526	0.526	0.526	0.526	0.526	0.526	0.526
Vinyl Bromide	0.560	0.560	0.560	0.561	0.560	0.561	0.560	0.560	0.560	0.560
n-butylbenzene	1.229	1.229	1.229	1.229	1.229	1.229	1.229	1.229	1.229	1.229
Trichlorofluoromethane	0.591	0.591	0.591	0.591	0.591	0.591	0.590	0.590	0.590	0.591
Acrolein	NA	NA	0.596	0.594	0.594	0.594	0.593	0.593	0.593	0.594
Acetonitrile	NA	NA	0.603	0.604	0.602	0.603	0.601	0.601	0.602	0.602
Acetone	NA	NA	NA	NA	0.610	0.610	0.608	0.608	0.608	0.609
Pentane	NA	NA	0.615	0.616	0.616	0.616	0.615	0.615	0.615	0.615
Undecane	NA	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.248
Ethyl Ether	NA	NA	0.640	0.639	0.637	0.637	0.636	0.636	0.636	0.637
1,1-Dichloroethene	0.671	0.671	0.671	0.672	0.671	0.671	0.671	0.671	0.671	0.671
tert-butanol	NA	0.694	0.691	0.690	0.685	0.685	0.684	0.683	0.684	0.687
Acrylonitrile	NA	0.687	0.687	0.686	0.686	0.686	0.684	0.684	0.685	0.686
1,1,2-Trichlorotrifluoroetha	0.690	0.690	0.690	0.691	0.690	0.690	0.690	0.690	0.690	0.690
Methylene Chloride	NA	NA	0.711	0.712	0.712	0.712	0.711	0.711	0.711	0.711
3-Chloropropene	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713
Carbon Disulfide	NA	0.729	0.730	0.730	0.730	0.730	0.729	0.729	0.729	0.730
2,3-Dimethyl butane	0.794	0.794	0.793	0.794	0.793	0.793	0.793	0.792	0.793	0.793

Evaluation Criteria
Internal Standard RT shift within 20 seconds of mean RT
Target compound RRT within 0.06 RRT of the RRT mean
Note: IS data is RT, SS and Target Compound Data is RRT.

Report Date:03/19/2007

INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/mj.i/J031607I.b/jicc169.d
STD 2 = /var/chem/gcms/mj.i/J031607I.b/jicc161.d
STD 3 = /var/chem/gcms/mj.i/J031607I.b/jicc162.d
STD 4 = /var/chem/gcms/mj.i/J031607I.b/jicc163.d
STD 5 = /var/chem/gcms/mj.i/J031607I.b/jicc164.d
STD 6 = /var/chem/gcms/mj.i/J031607I.b/jicc165.d
STD 7 = /var/chem/gcms/mj.i/J031607I.b/jicc166.d
STD 8 = /var/chem/gcms/mj.i/J031607I.b/jicc167.d
STD 9 = /var/chem/gcms/mj.i/J031607I.b/jicc168.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	STD 9	MEAN
trans-1,2-Dichloroethene	0.803	0.803	0.803	0.803	0.803	0.803	0.803	0.803	0.803	0.803
Methyl-t-Butyl Ether	NA	0.828	0.827	0.825	0.822	0.821	0.820	0.819	0.819	0.823
1,1-Dichloroethane	0.851	0.851	0.851	0.851	0.850	0.851	0.850	0.850	0.850	0.850
Vinyl Acetate	NA	0.865	0.866	0.865	0.864	0.864	0.864	0.864	0.864	0.864
Hexane	0.914	0.914	0.915	0.914	0.914	0.914	0.914	0.914	0.914	0.914
2-Butanone	NA	NA	0.926	0.924	0.921	0.920	0.918	0.918	0.917	0.920
cis 1,2-Dichloroethene	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962
4-tert-Butyltoluene	1.257	1.257	1.257	1.257	1.257	1.257	1.257	1.257	1.257	1.257
Chloroform	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
Camphor	NA	NA	NA	NA	1.307	1.307	1.307	1.307	1.307	1.307
1,1,1-Trichloroethane	1.117	1.117	1.118	1.117	1.116	1.117	1.116	1.116	1.117	1.117
1,2-Dichloroethane	0.907	0.907	0.908	0.908	0.907	0.907	0.907	0.907	0.908	0.907
Cyclohexane	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
1-Butanol	NA	NA	0.958	0.957	0.952	0.952	0.950	0.950	0.950	0.953
Benzene	0.950	0.952	0.951	0.950	0.950	0.951	0.950	0.950	0.951	0.950
Carbon Tetrachloride	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186	1.186
2,2,4-trimethylpentane	1.018	1.018	1.018	1.017	1.017	1.017	1.017	1.017	1.017	1.017
Heptane	NA	1.052	1.052	1.051	1.051	1.051	1.051	1.051	1.051	1.051
1,2-Dichloropropane	1.062	1.062	1.062	1.062	1.062	1.061	1.061	1.061	1.061	1.062
Hexachlorobutadiene	NA	1.352	1.352	1.352	1.352	1.352	1.352	1.352	1.352	1.352
Trichloroethene	1.063	1.064	1.064	1.063	1.064	1.063	1.063	1.063	1.064	1.063
Dibromomethane	1.072	1.073	1.072	1.072	1.072	1.072	1.072	1.072	1.073	1.072
Bromodichloromethane	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085
Napthalene	NA	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338
1,2,4-Trichlorobenzene	NA	1.329	1.329	1.329	1.329	1.329	1.329	1.329	1.329	1.329
4-Methyl-2-pentanone	NA	1.178	1.178	1.176	1.173	1.172	1.172	1.172	1.171	1.174
cis-1,3-Dichloropropene	1.175	1.175	1.175	1.175	1.175	1.175	1.175	1.175	1.175	1.175
trans-1,3-Dichloropropene	0.868	0.869	0.868	0.868	0.868	0.868	0.868	0.869	0.869	0.868
Toluene	0.876	0.876	0.876	0.876	0.876	0.876	0.876	0.876	0.876	0.876
1,1,2-Trichloroethane	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881	0.881
2-Hexanone	0.911	0.910	0.910	0.909	0.907	0.907	0.906	0.906	0.906	0.908
Octane	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918
Dibromochloromethane	0.925	0.926	0.926	0.926	0.925	0.925	0.926	0.926	0.926	0.926
1,2-Dibromoethane	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944
Tetrachloroethene	0.948	0.948	0.948	0.947	0.948	0.948	0.948	0.948	0.948	0.948
Chlorobenzene	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003
Ethylbenzene	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021

Evaluation Criteria
Internal Standard RT shift within 20 seconds of mean RT
Target compound RRT within 0.06 RRT of the RRT mean
Note: IS data is RT, SS and Target Compound Data is RRT.

Report Date:03/19/2007

INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/mj.i/J031607I.b/jicc169.d
STD 2 = /var/chem/gcms/mj.i/J031607I.b/jicc161.d
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STD 7 = /var/chem/gcms/mj.i/J031607I.b/jicc166.d
STD 8 = /var/chem/gcms/mj.i/J031607I.b/jicc167.d
STD 9 = /var/chem/gcms/mj.i/J031607I.b/jicc168.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	STD 9	MEAN
m&p-Xylene	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031
Nonane	1.057	1.057	1.056	1.056	1.056	1.056	1.056	1.056	1.056	1.056
Bromoform	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060
Styrene	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060
o-Xylene	1.064	1.064	1.064	1.064	1.064	1.064	1.064	1.064	1.064	1.064
1,1,2,2-Tetrachloroethane	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085	1.085
1,2,3-Trichloropropane	1.095	1.096	1.095	1.095	1.095	1.095	1.095	1.096	1.096	1.095
Cumene	1.101	1.101	1.101	1.101	1.101	1.101	1.101	1.101	1.101	1.101
a-Pinene	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115	1.115
n-Propylbenzene	1.135	1.135	1.135	1.135	1.135	1.135	1.135	1.135	1.135	1.135
Camphene	1.136	1.136	1.136	1.136	1.136	1.136	1.136	1.136	1.136	1.136
2-chlorotoluene	1.138	1.138	1.138	1.138	1.138	1.138	1.138	1.138	1.138	1.138
4-Ethyltoluene	1.144	1.144	1.144	1.144	1.144	1.144	1.144	1.144	1.144	1.144
1,3,5-Trimethylbenzene	1.149	1.149	1.148	1.149	1.149	1.148	1.149	1.149	1.149	1.149
b-Pinene	1.165	1.165	1.165	1.165	1.165	1.165	1.165	1.165	1.165	1.165
Alpha-Methylstyrene	1.164	1.164	1.164	1.163	1.163	1.163	1.163	1.163	1.164	1.163
Decane	1.166	1.166	1.166	1.166	1.166	1.166	1.166	1.166	1.166	1.166
1,2,4-Trimethylbenzene	1.176	1.176	1.176	1.176	1.176	1.176	1.176	1.176	1.176	1.176
Dodecane	NA	NA	1.315	1.315	1.315	1.315	1.315	1.315	1.315	1.315
sec-butylbenzene	1.192	1.192	1.192	1.192	1.192	1.192	1.192	1.192	1.192	1.192
1,3-Dichlorobenzene	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193
Benzyl Chloride	NA	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198
Propene	NA	0.417	0.418	0.418	0.418	0.418	0.417	0.417	0.418	0.418
2-methyl butane	0.565	0.565	0.565	0.566	0.566	0.566	0.565	0.565	0.565	0.565
Isopropyl alcohol	NA	0.623	0.621	0.622	0.617	0.617	0.616	0.616	0.616	0.618
Ethyl acetate	NA	0.994	0.993	0.991	0.989	0.988	0.987	0.987	0.986	0.989
Tetrahydrofuran	NA	1.068	1.066	1.062	1.058	1.056	1.054	1.052	1.052	1.058
1,4-dioxane	NA	1.099	1.098	1.096	1.092	1.091	1.090	1.090	1.090	1.093
Methyl Methacrylate	NA	1.098	1.097	1.096	1.095	1.095	1.095	1.094	1.094	1.096
tert-butylbenzene	1.176	1.175	1.175	1.175	1.175	1.175	1.175	1.175	1.175	1.175
1,2,3-trichlorobenzene	NA	1.357	1.357	1.357	1.357	1.357	1.357	1.357	1.357	1.357

Evaluation Criteria
Internal Standard RT shift within 20 seconds of mean RT
Target compound RRT within 0.06 RRT of the RRT mean
Note: IS data is RT, SS and Target Compound Data is RRT.

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc169.d
Report Date: 20-Mar-2007 11:22

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J031607I.b/jicc169.d
Lab Smp Id: ICAL9 Client Smp ID: STD0.038
Inj Date : 16-MAR-2007 09:31
Operator : 3386 Inst ID: mj.i
Smp Info : ICAL9,,1,9,,STD0.038
Misc Info : J031607I,TO15,,,,20 ML CX1505
Comment :
Method : /var/chem/gcms/mj.i/J031607I.b/TO15.m
Meth Date : 20-Mar-2007 11:22 wilesd Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 3 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
* 1 Bromochloromethane	128	8.915	8.915	(1.000)	209205	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.104	11.104	(1.000)	602180	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.822	15.822	(1.000)	523447	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.926	9.926	(0.894)	157722	4.00000	4.116
$ 5 Toluene-d8	98	13.746	13.746	(0.869)	504799	4.00000	3.963
$ 6 4-Bromofluorobenzene	95	17.457	17.457	(1.103)	410382	4.00000	3.885
7 Chlorodifluoromethane	51	3.707	3.707	(0.416)	5778	0.03800	0.04236
8 Dichlorodifluoromethane	85	3.772	3.772	(0.423)	9896	0.03800	0.03944
9 Propene	41	3.724	3.724	(0.418)	2877	0.03800	0.05123
10 Chloromethane	52	3.955	3.955	(0.444)	2066	0.03800	0.09867
11 1,2-Dichlorotetrafluoroethane	135	3.960	3.960	(0.444)	4781	0.03800	0.03714
13 Vinyl Chloride	62	4.132	4.132	(0.464)	2616	0.03800	0.03933
14 n-Butane	43	4.219	4.219	(0.473)	4164	0.03800	0.04444
15 1,3-Butadiene	54	4.219	4.219	(0.473)	1540	0.03800	0.03616
16 Bromomethane	94	4.541	4.541	(0.509)	3006	0.03800	0.03730
17 Chloroethane	64	4.692	4.692	(0.526)	955	0.03800	0.02730

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc169.d
Report Date: 20-Mar-2007 11:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
18 Vinyl Bromide	106	4.993	4.993	(0.560)	3064	0.03800	0.03925
19 2-methyl butane	43	5.036	5.036	(0.565)	3107	0.03800	0.03772
20 Trichlorofluoromethane	101	5.273	5.273	(0.591)	9438	0.03800	0.03779
25 Isopropyl alcohol	45	5.563	5.563	(0.624)	2618	0.03800	0.03231
27 1,1-Dichloroethene	96	5.983	5.983	(0.671)	3235	0.03800	0.04499
30 1,1,2-Trichlorotrifluoroethane	101	6.155	6.155	(0.690)	5204	0.03800	0.03619
31 Methylene Chloride	84	6.343	6.343	(0.712)	3927	0.03800	0.06372
32 3-Chloropropene	39	6.354	6.354	(0.713)	3240	0.03800	0.04343
33 Carbon Disulfide	76	6.499	6.499	(0.729)	8533	0.03800	0.03863
34 2,3-Dimethyl butane	43	7.075	7.075	(0.794)	6806	0.03800	0.03942
35 trans-1,2-Dichloroethene	96	7.161	7.161	(0.803)	3228	0.03800	0.04182
37 1,1-Dichloroethane	63	7.586	7.586	(0.851)	5262	0.03800	0.03988
39 Hexane	56	8.151	8.151	(0.914)	1822	0.03800	0.03393
41 cis 1,2-Dichloroethene	96	8.576	8.576	(0.962)	3093	0.03800	0.04279
42 Ethyl acetate	43	8.872	8.872	(0.995)	1971	0.03800	0.02190
43 Chloroform	83	8.920	8.920	(1.001)	6439	0.03800	0.03994
44 Tetrahydrofuran	42	9.544	9.544	(1.071)	796	0.03800	0.01659
45 1,1,1-Trichloroethane	97	9.958	9.958	(1.117)	7143	0.03800	0.03967
46 1,2-Dichloroethane	62	10.077	10.077	(0.907)	3171	0.03800	0.03756
47 Cyclohexane	69	10.556	10.556	(0.951)	1141	0.03800	0.04396
49 Benzene	78	10.556	10.556	(0.951)	7651	0.03800	0.05273
50 Carbon Tetrachloride	117	10.577	10.577	(1.186)	7303	0.03800	0.03870
51 2,2,4-trimethylpentane	57	11.303	11.303	(1.018)	12550	0.03800	0.05244
52 Heptane	43	11.674	11.674	(1.051)	4433	0.03800	0.05169
53 1,2-Dichloropropane	63	11.787	11.787	(1.062)	1379	0.03800	0.03119
54 Trichloroethene	130	11.809	11.809	(1.063)	4223	0.03800	0.04974
55 Dibromomethane	93	11.906	11.906	(1.072)	3509	0.03800	0.04657
56 Bromodichloromethane	83	12.046	12.046	(1.085)	4645	0.03800	0.03665
58 Methyl Methacrylate	41	12.191	12.191	(1.098)	1411	0.03800	0.03140
60 cis-1,3-Dichloropropene	75	13.052	13.052	(1.175)	2825	0.03800	0.03588
61 trans-1,3-Dichloropropene	75	13.740	13.740	(0.868)	3019	0.03800	0.03794
62 Toluene	91	13.859	13.859	(0.876)	5296	0.03800	0.03886
63 1,1,2-Trichloroethane	97	13.939	13.939	(0.881)	1532	0.03800	0.03112
64 2-Hexanone	58	14.413	14.413	(0.911)	1051	0.03800	0.03424
65 Octane	85	14.531	14.531	(0.918)	1989	0.03800	0.04008
66 Dibromochloromethane	129	14.639	14.639	(0.925)	3726	0.03800	0.03483
67 1,2-Dibromoethane	107	14.934	14.934	(0.944)	2997	0.03800	0.03577
68 Tetrachloroethene	129	14.994	14.994	(0.948)	3062	0.03800	0.04770
69 Chlorobenzene	112	15.870	15.870	(1.003)	4433	0.03800	0.03984
70 Ethylbenzene	91	16.156	16.156	(1.021)	6343	0.03800	0.03931
71 m&p-Xylene	91	16.317	16.317	(1.031)	10162	0.07600	0.08139
72 Nonane	57	16.720	16.720	(1.057)	2856	0.03800	0.03349
73 Bromoform	173	16.774	16.774	(1.060)	3347	0.03800	0.03352
74 Styrene	104	16.774	16.774	(1.060)	2705	0.03800	0.03309
75 o-Xylene	91	16.839	16.839	(1.064)	5273	0.03800	0.03885
76 1,1,2,2-Tetrachloroethane	83	17.172	17.172	(1.085)	3839	0.03800	0.04011
77 1,2,3-Trichloropropane	110	17.323	17.323	(1.095)	924	0.03800	0.03528

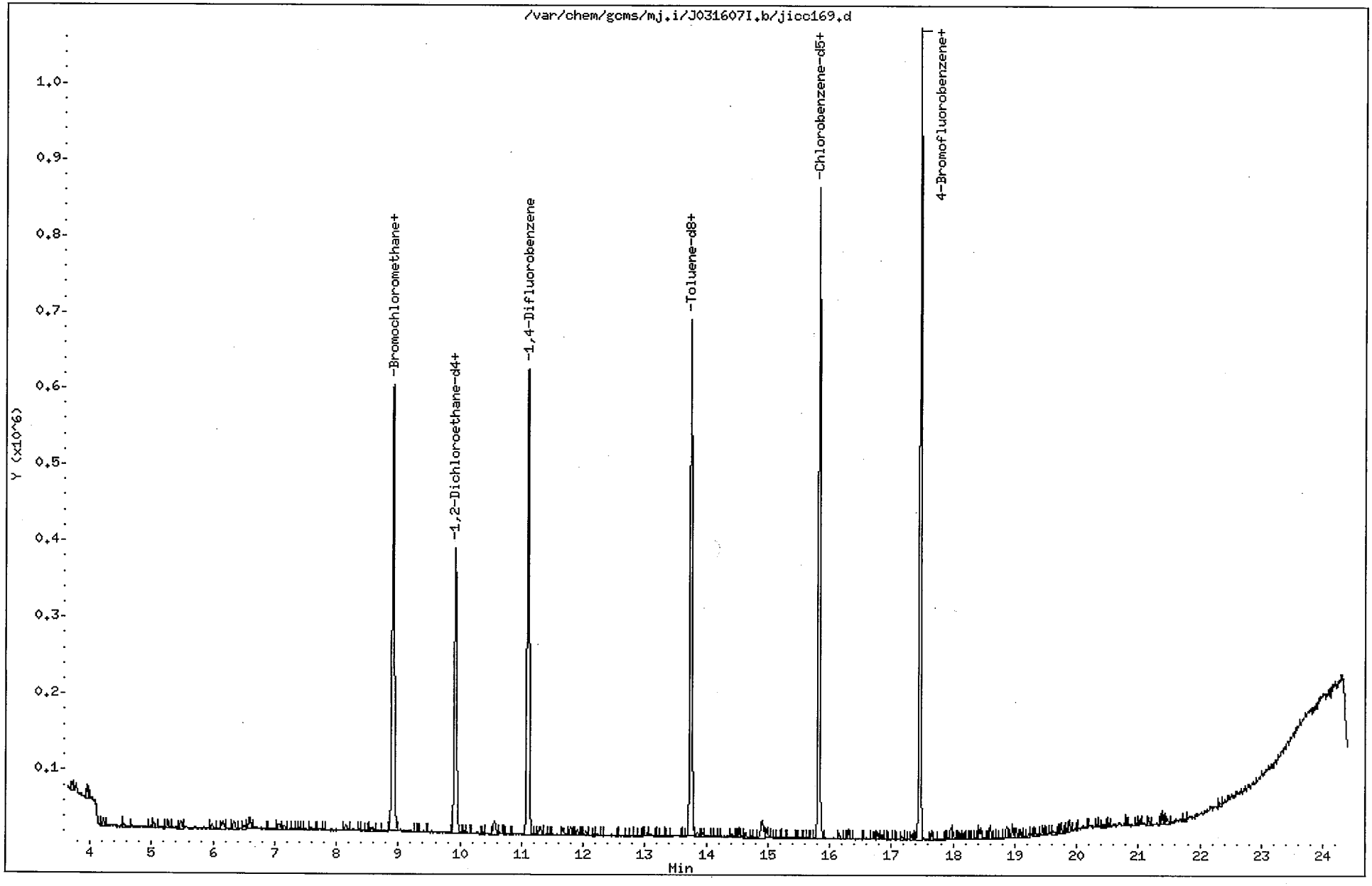
Data File: /var/chem/gcms/mj.i/J031607I.b/jicc169.d
Report Date: 20-Mar-2007 11:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
78 Cumene	105	17.420	17.420	(1.101)	7597	0.03800	0.04160
79 a-Pinene	93	17.646	17.646	(1.115)	5684	0.03800	0.03613
80 n-Propylbenzene	120	17.963	17.963	(1.135)	1648	0.03800	0.03630
81 Camphene	93	17.979	17.979	(1.136)	3298	0.03800	0.03461
82 2-chlorotoluene	126	18.006	18.006	(1.138)	1910	0.03800	0.04054
83 4-Ethyltoluene	105	18.108	18.108	(1.144)	6860	0.03800	0.03925
84 1,3,5-Trimethylbenzene	120	18.178	18.178	(1.149)	2287	0.03800	0.03543
85 b-Pinene	93	18.431	18.431	(1.165)	4032	0.03800	0.03312
86 Alpha-Methylstyrene	118	18.410	18.410	(1.164)	2162	0.03800	0.03340
87 Decane	57	18.453	18.453	(1.166)	2873	0.03800	0.03085
88 1,2,4-Trimethylbenzene	105	18.614	18.614	(1.176)	5559	0.03800	0.04094
89 tert-butylbenzene	119	18.603	18.603	(1.176)	6471	0.03800	0.04266
90 sec-butylbenzene	105	18.861	18.861	(1.192)	8310	0.03800	0.04077
91 1,3-Dichlorobenzene	146	18.883	18.883	(1.193)	4260	0.03800	0.04346
92 Benzyl Chloride	91	18.964	18.964	(1.199)	6442	0.03800	0.05190
93 1,4-Dichlorobenzene	146	18.969	18.969	(1.199)	4335	0.03800	0.04536
94 p-Cymene	119	19.028	19.028	(1.203)	7114	0.03800	0.04252
95 d-Limonene	68	19.093	19.093	(1.207)	1865	0.03800	0.02850
96 1,2-Dichlorobenzene	146	19.329	19.329	(1.222)	4164	0.03800	0.04520
97 n-butylbenzene	91	19.453	19.453	(1.229)	6366	0.03800	0.04204
98 Undecane	57	19.749	19.749	(1.248)	3543	0.03800	0.03785
99 4-tert-Butyltoluene	133	19.884	19.884	(1.257)	6113	0.03800	0.03971
101 Dodecane	57	20.809	20.809	(1.315)	3347	0.03800	0.04093
102 1,2,4-Trichlorobenzene	180	21.029	21.029	(1.329)	3236	0.03800	0.05822
103 Napthalene	128	21.180	21.180	(1.339)	5820	0.03800	0.05560
104 Hexachlorobutadiene	225	21.390	21.390	(1.352)	3950	0.03800	0.04856
105 1,2,3-trichlorobenzene	180	21.476	21.476	(1.357)	3160	0.03800	0.05933

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc169.d
Date : 16-MAR-2007 09:31
Client ID: STD0.038
Sample Info: ICAL9,,1,9,,STD0.038
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 3386
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J031607I.b/jicc161.d
Report Date: 20-Mar-2007 11:24

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J031607I.b/jicc161.d
Lab Smp Id: ICAL1 Client Smp ID: STD0.08
Inj Date : 16-MAR-2007 10:09
Operator : 3386 Inst ID: mj.i
Smp Info : ICAL1,,1,1,,STD0.08
Misc Info : J031607I,TO15,,,,40 ML CX1505
Comment :
Method : /var/chem/gcms/mj.i/J031607I.b/TO15.m
Meth Date : 20-Mar-2007 11:23 wilesd Quant Type: ISTD
Cal Date : 16-MAR-2007 10:09 Cal File: jicc161.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
* 1 Bromochloromethane	128	8.917	8.915	(1.000)	232494	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.101	11.104	(1.000)	813484	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.824	15.822	(1.000)	652177	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.923	9.926	(0.894)	224015	4.00000	4.328
$ 5 Toluene-d8	98	13.742	13.746	(0.868)	657513	4.00000	4.143
$ 6 4-Bromofluorobenzene	95	17.459	17.457	(1.103)	513527	4.00000	3.902
7 Chlorodifluoromethane	51	3.709	3.707	(0.416)	12169	0.08000	0.08028
8 Dichlorodifluoromethane	85	3.769	3.772	(0.423)	20764	0.08000	0.07446
9 Propene	41	3.720	3.724	(0.417)	5126	0.08000	0.08211
10 Chloromethane	52	3.957	3.955	(0.444)	2930	0.08000	0.1259
11 1,2-Dichlorotetrafluoroethane	135	3.962	3.960	(0.444)	11117	0.08000	0.07771
13 Vinyl Chloride	62	4.134	4.132	(0.464)	5550	0.08000	0.07510
14 n-Butane	43	4.215	4.219	(0.473)	8578	0.08000	0.08243
15 1,3-Butadiene	54	4.215	4.219	(0.473)	3213	0.08000	0.06789
16 Bromomethane	94	4.543	4.541	(0.509)	6954	0.08000	0.07766
17 Chloroethane	64	4.683	4.692	(0.525)	2923	0.08000	0.07515

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc161.d
Report Date: 20-Mar-2007 11:24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
18 Vinyl Bromide	106	4.995	4.993	(0.560)	6289	0.08000	0.07250
19 2-methyl butane	43	5.038	5.036	(0.565)	6805	0.08000	0.07434
20 Trichlorofluoromethane	101	5.269	5.273	(0.591)	20844	0.08000	0.07510
24 Pentane	57	5.485	5.483	(0.615)	1754	0.08000	0.07984
25 Isopropyl alcohol	45	5.555	5.563	(0.623)	5425	0.08000	0.06024
26 Ethyl Ether	31	5.711	5.714	(0.640)	4502	0.08000	0.06714
27 1,1-Dichloroethene	96	5.985	5.983	(0.671)	6143	0.08000	0.07687
28 tert-butanol	59	6.184	6.193	(0.694)	6788	0.08000	0.05586
29 Acrylonitrile	53	6.125	6.107	(0.687)	1752	0.08000	0.05099
30 1,1,2-Trichlorotrifluoroethane	101	6.157	6.155	(0.690)	12519	0.08000	0.07834
31 Methylene Chloride	84	6.335	6.343	(0.710)	6625	0.08000	0.09674
32 3-Chloropropene	39	6.356	6.354	(0.713)	6452	0.08000	0.07782
33 Carbon Disulfide	76	6.501	6.499	(0.729)	18545	0.08000	0.07554
34 2,3-Dimethyl butane	43	7.077	7.075	(0.794)	14701	0.08000	0.07662
35 trans-1,2-Dichloroethene	96	7.158	7.161	(0.803)	6837	0.08000	0.07970
36 Methyl-t-Butyl Ether	73	7.384	7.403	(0.828)	9947	0.08000	0.06241
37 1,1-Dichloroethane	63	7.588	7.586	(0.851)	11335	0.08000	0.07730
38 Vinyl Acetate	43	7.717	7.726	(0.865)	6232	0.08000	0.05192
39 Hexane	56	8.147	8.151	(0.914)	4796	0.08000	0.08035
41 cis 1,2-Dichloroethene	96	8.583	8.576	(0.963)	6377	0.08000	0.07937
42 Ethyl acetate	43	8.863	8.872	(0.994)	5177	0.08000	0.05175
43 Chloroform	83	8.922	8.920	(1.001)	14730	0.08000	0.08221
44 Tetrahydrofuran	42	9.519	9.544	(1.068)	2975	0.08000	0.05578
45 1,1,1-Trichloroethane	97	9.960	9.958	(1.117)	15562	0.08000	0.07777
46 1,2-Dichloroethane	62	10.073	10.077	(0.907)	9536	0.08000	0.08360
47 Cyclohexane	69	10.552	10.556	(0.951)	2642	0.08000	0.07536
49 Benzene	78	10.563	10.556	(0.952)	17967	0.08000	0.09166
50 Carbon Tetrachloride	117	10.579	10.577	(1.186)	16358	0.08000	0.07800
51 2,2,4-trimethylpentane	57	11.300	11.303	(1.018)	27196	0.08000	0.08411
52 Heptane	43	11.676	11.674	(1.052)	10043	0.08000	0.08668
53 1,2-Dichloropropane	63	11.784	11.787	(1.062)	4735	0.08000	0.07928
54 Trichloroethene	130	11.811	11.809	(1.064)	10315	0.08000	0.08991
55 Dibromomethane	93	11.908	11.906	(1.073)	9011	0.08000	0.08850
56 Bromodichloromethane	83	12.048	12.046	(1.085)	14123	0.08000	0.08249
57 1,4-dioxane	88	12.198	12.100	(1.099)	1037	0.08000	0.03481
58 Methyl Methacrylate	41	12.187	12.191	(1.098)	3365	0.08000	0.05542
59 4-Methyl-2-pentanone	43	13.075	13.009	(1.178)	4677	0.08000	0.05069
60 cis-1,3-Dichloropropene	75	13.043	13.052	(1.175)	8320	0.08000	0.07822
61 trans-1,3-Dichloropropene	75	13.747	13.740	(0.869)	8501	0.08000	0.08575
62 Toluene	91	13.855	13.859	(0.876)	14909	0.08000	0.08781
63 1,1,2-Trichloroethane	97	13.941	13.939	(0.881)	5422	0.08000	0.08838
64 2-Hexanone	58	14.398	14.413	(0.910)	2012	0.08000	0.05258
65 Octane	85	14.527	14.531	(0.918)	5731	0.08000	0.09266
66 Dibromochloromethane	129	14.646	14.639	(0.926)	11172	0.08000	0.08381
67 1,2-Dibromoethane	107	14.931	14.934	(0.944)	8935	0.08000	0.08559
68 Tetrachloroethene	129	14.995	14.994	(0.948)	7707	0.08000	0.09635
69 Chlorobenzene	112	15.872	15.870	(1.003)	11988	0.08000	0.08646

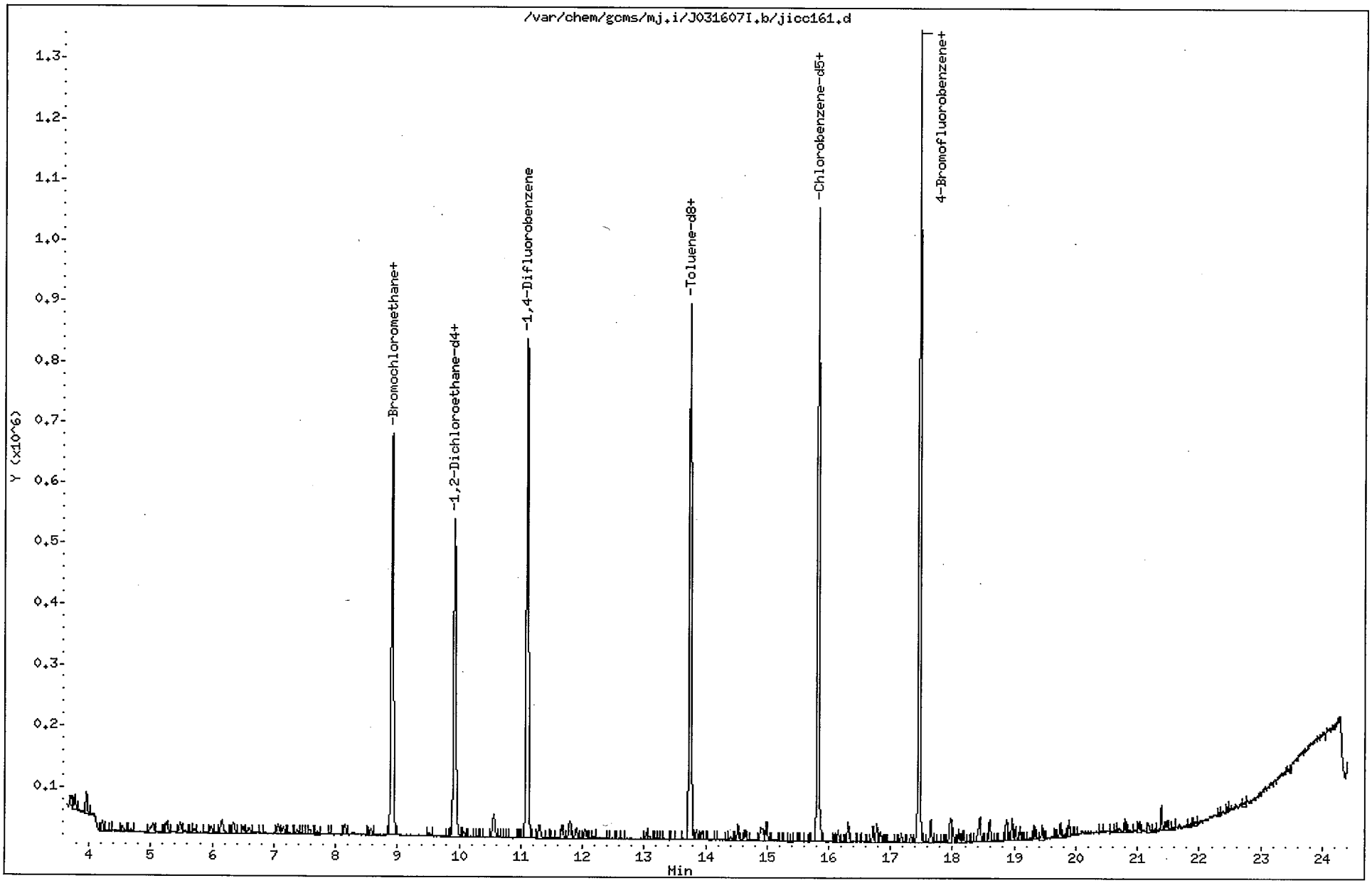
Data File: /var/chem/gcms/mj.i/J031607I.b/jicc161.d
Report Date: 20-Mar-2007 11:24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
70 Ethylbenzene	91	16.157	16.156	(1.021)	16006	0.08000	0.07960
71 m&p-Xylene	91	16.313	16.317	(1.031)	23501	0.16000	0.1511
72 Nonane	57	16.722	16.720	(1.057)	8726	0.08000	0.08211
73 Bromoform	173	16.776	16.774	(1.060)	10120	0.08000	0.08134
74 Styrene	104	16.781	16.774	(1.060)	7382	0.08000	0.07244
75 o-Xylene	91	16.841	16.839	(1.064)	12564	0.08000	0.07430
76 1,1,2,2-Tetrachloroethane	83	17.169	17.172	(1.085)	8117	0.08000	0.06808
77 1,2,3-Trichloropropane	110	17.336	17.323	(1.096)	2287	0.08000	0.07012
78 Cumene	105	17.422	17.420	(1.101)	17045	0.08000	0.07492
79 a-Pinene	93	17.648	17.646	(1.115)	16952	0.08000	0.08649
80 n-Propylbenzene	120	17.960	17.963	(1.135)	4116	0.08000	0.07277
81 Camphene	93	17.976	17.979	(1.136)	9593	0.08000	0.08080
82 2-chlorotoluene	126	18.003	18.006	(1.138)	4665	0.08000	0.07945
83 4-Ethyltoluene	105	18.105	18.108	(1.144)	14631	0.08000	0.06722
84 1,3,5-Trimethylbenzene	120	18.180	18.178	(1.149)	5357	0.08000	0.06652
85 b-Pinene	93	18.433	18.431	(1.165)	11621	0.08000	0.07661
86 Alpha-Methylstyrene	118	18.411	18.410	(1.164)	4798	0.08000	0.05950
87 Decane	57	18.449	18.453	(1.166)	8035	0.08000	0.06925
88 1,2,4-Trimethylbenzene	105	18.611	18.614	(1.176)	11119	0.08000	0.06572
89 tert-butylbenzene	119	18.600	18.603	(1.175)	13276	0.08000	0.07026
90 sec-butylbenzene	105	18.863	18.861	(1.192)	17642	0.08000	0.06947
91 1,3-Dichlorobenzene	146	18.885	18.883	(1.193)	10232	0.08000	0.08376
92 Benzyl Chloride	91	18.960	18.964	(1.198)	12042	0.08000	0.07789
93 1,4-Dichlorobenzene	146	18.971	18.969	(1.199)	10278	0.08000	0.08631
94 p-Cymene	119	19.025	19.028	(1.202)	13490	0.08000	0.06472
95 d-Limonene	68	19.100	19.093	(1.207)	4243	0.08000	0.05204
96 1,2-Dichlorobenzene	146	19.326	19.329	(1.221)	9401	0.08000	0.08189
97 n-butylbenzene	91	19.455	19.453	(1.229)	11952	0.08000	0.06335
98 Undecane	57	19.751	19.749	(1.248)	6775	0.08000	0.05809
99 4-tert-Butyltoluene	133	19.885	19.884	(1.257)	11914	0.08000	0.06211
101 Dodecane	57	20.805	20.809	(1.315)	5514	0.08000	0.05410
102 1,2,4-Trichlorobenzene	180	21.031	21.029	(1.329)	5175	0.08000	0.07472
103 Napthalene	128	21.177	21.180	(1.338)	9265	0.08000	0.07114
104 Hexachlorobutadiene	225	21.386	21.390	(1.351)	8549	0.08000	0.08438
105 1,2,3-trichlorobenzene	180	21.472	21.476	(1.357)	5306	0.08000	0.07992

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc161.d
Date : 16-MAR-2007 10:09
Client ID: STD0.08
Sample Info: ICAL1,,1,1,,STD0.08
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 3386
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J031607I.b/jicc162.d
Report Date: 19-Mar-2007 19:22

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J031607I.b/jicc162.d
Lab Smp Id: ICAL2 Client Smp ID: STD0.16
Inj Date : 16-MAR-2007 10:46
Operator : 3386 Inst ID: mj.i
Smp Info : ICAL2,,1,2,,STD0.16
Misc Info : J031607I,TO15,,,,80 ML CX1505
Comment :
Method : /var/chem/gcms/mj.i/J031607I.b/TO15.m
Meth Date : 19-Mar-2007 19:22 tajh Quant Type: ISTD
Cal Date : 16-MAR-2007 10:46 Cal File: jicc162.d
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
* 1 Bromochloromethane	128	8.910	8.915	(1.000)	192867	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.100	11.104	(1.000)	643421	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.823	15.822	(1.000)	608030	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.922	9.926	(0.894)	169268	4.00000	4.134
$ 5 Toluene-d8	98	13.741	13.746	(0.868)	575241	4.00000	3.888
$ 6 4-Bromofluorobenzene	95	17.458	17.457	(1.103)	495048	4.00000	4.035
7 Chlorodifluoromethane	51	3.709	3.707	(0.416)	20906	0.16000	0.1662
8 Dichlorodifluoromethane	85	3.768	3.772	(0.423)	37926	0.16000	0.1640
9 Propene	41	3.725	3.724	(0.418)	8886	0.16000	0.1716
10 Chloromethane	52	3.956	3.955	(0.444)	4357	0.16000	0.2257
11 1,2-Dichlorotetrafluoroethane	135	3.956	3.960	(0.444)	19026	0.16000	0.1603
12 Methanol	31	4.101	4.100	(0.460)	5123	0.16000	0.3262
13 Vinyl Chloride	62	4.128	4.132	(0.463)	9561	0.16000	0.1559
14 n-Butane	43	4.214	4.219	(0.473)	14845	0.16000	0.1720
15 1,3-Butadiene	54	4.214	4.219	(0.473)	6305	0.16000	0.1606
16 Bromomethane	94	4.548	4.541	(0.510)	11766	0.16000	0.1584

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc162.d
Report Date: 19-Mar-2007 19:22

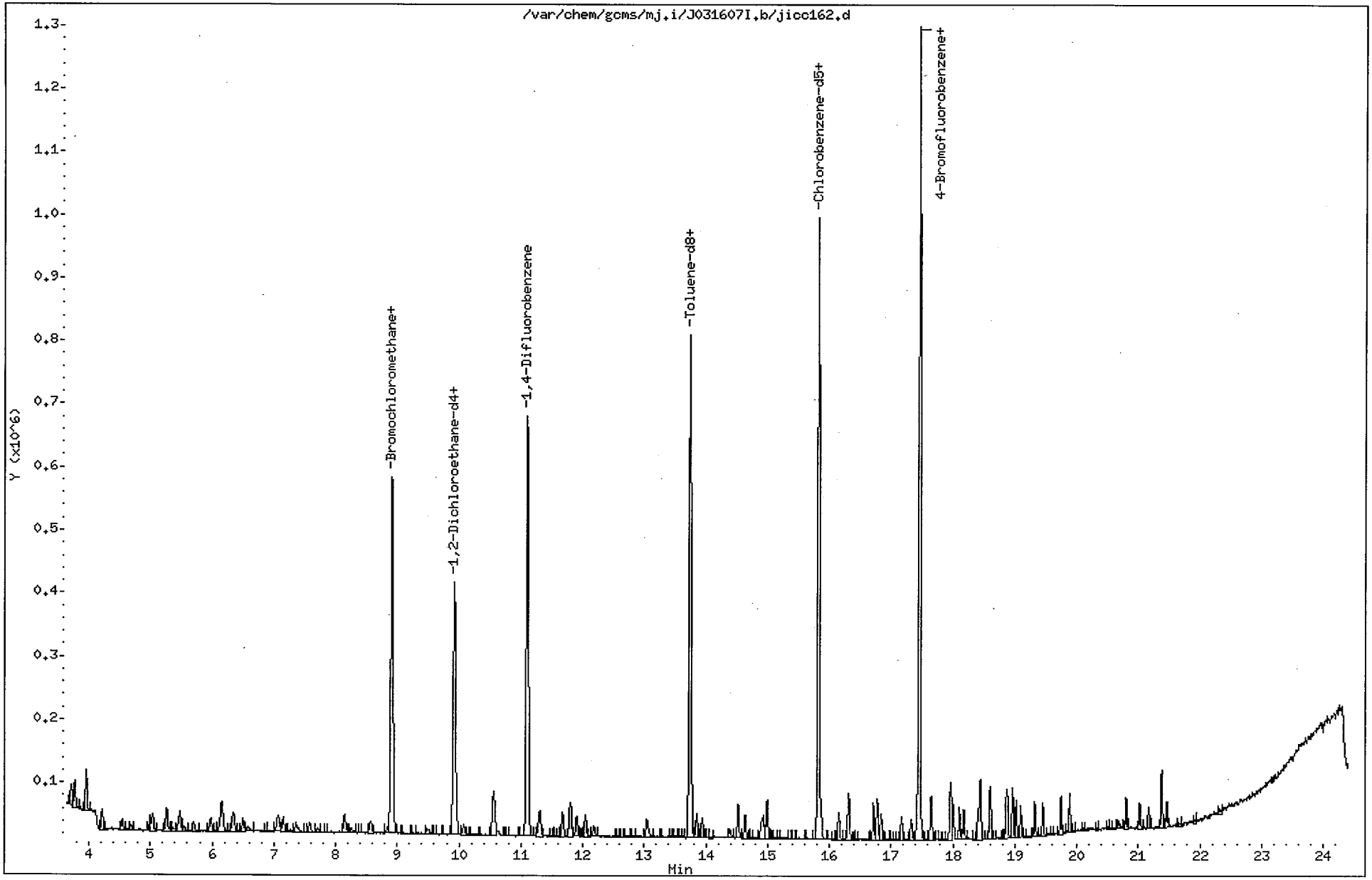
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
17 Chloroethane	64	4.682	4.692	(0.525)	5296	0.16000	0.1641
18 Vinyl Bromide	106	4.994	4.993	(0.560)	11497	0.16000	0.1598
19 2-methyl butane	43	5.037	5.036	(0.565)	12558	0.16000	0.1654
20 Trichlorofluoromethane	101	5.263	5.273	(0.591)	36814	0.16000	0.1599
21 Acrolein	56	5.306	5.290	(0.596)	2285	0.16000	0.1361
22 Acetonitrile	40	5.376	5.380	(0.603)	4707	0.16000	0.2302
23 Acetone	58	5.462	5.483	(0.613)	5933	0.16000	0.3378
24 Pentane	57	5.484	5.483	(0.615)	2841	0.16000	0.1559
25 Isopropyl alcohol	45	5.538	5.563	(0.621)	11460	0.16000	0.1534
26 Ethyl Ether	31	5.699	5.714	(0.640)	8990	0.16000	0.1616
27 1,1-Dichloroethene	96	5.979	5.983	(0.671)	10710	0.16000	0.1615
28 tert-butanol	59	6.162	6.193	(0.691)	14930	0.16000	0.1481
29 Acrylonitrile	53	6.119	6.107	(0.687)	4545	0.16000	0.1594
30 1,1,2-Trichlorotrifluoroethane	101	6.151	6.155	(0.690)	21193	0.16000	0.1599
31 Methylene Chloride	84	6.334	6.343	(0.711)	10665	0.16000	0.1877
32 3-Chloropropene	39	6.350	6.354	(0.713)	10834	0.16000	0.1575
33 Carbon Disulfide	76	6.500	6.499	(0.730)	32705	0.16000	0.1606
34 2,3-Dimethyl butane	43	7.065	7.075	(0.793)	25277	0.16000	0.1588
35 trans-1,2-Dichloroethene	96	7.157	7.161	(0.803)	11734	0.16000	0.1649
36 Methyl-t-Butyl Ether	73	7.372	7.403	(0.827)	21421	0.16000	0.1620
37 1,1-Dichloroethane	63	7.582	7.586	(0.851)	20130	0.16000	0.1655
38 Vinyl Acetate	43	7.716	7.726	(0.866)	15121	0.16000	0.1518
39 Hexane	56	8.152	8.151	(0.915)	8334	0.16000	0.1683
40 2-Butanone	72	8.254	8.179	(0.926)	2651	0.16000	0.1383
41 cis 1,2-Dichloroethene	96	8.577	8.576	(0.963)	11429	0.16000	0.1715
42 Ethyl acetate	43	8.846	8.872	(0.993)	13043	0.16000	0.1572
43 Chloroform	83	8.921	8.920	(1.001)	25584	0.16000	0.1721
44 Tetrahydrofuran	42	9.497	9.544	(1.066)	6486	0.16000	0.1466
45 1,1,1-Trichloroethane	97	9.959	9.958	(1.118)	28101	0.16000	0.1693
46 1,2-Dichloroethane	62	10.078	10.077	(0.908)	17566	0.16000	0.1947
47 Cyclohexane	69	10.546	10.556	(0.950)	5178	0.16000	0.1867
48 1-Butanol	31	10.632	10.546	(0.958)	3001	0.16000	0.1453
49 Benzene	78	10.557	10.556	(0.951)	31028	0.16000	0.2001
50 Carbon Tetrachloride	117	10.573	10.577	(1.187)	30101	0.16000	0.1730
51 2,2,4-trimethylpentane	57	11.299	11.303	(1.018)	47577	0.16000	0.1860
52 Heptane	43	11.676	11.674	(1.052)	18224	0.16000	0.1988
53 1,2-Dichloropropane	63	11.783	11.787	(1.062)	9727	0.16000	0.2059
54 Trichloroethene	130	11.810	11.809	(1.064)	17784	0.16000	0.1960
55 Dibromomethane	93	11.901	11.906	(1.072)	15451	0.16000	0.1919
56 Bromodichloromethane	83	12.041	12.046	(1.085)	27077	0.16000	0.2000
57 1,4-dioxane	88	12.187	12.100	(1.098)	4025	0.16000	0.1713
58 Methyl Methacrylate	41	12.176	12.191	(1.097)	7806	0.16000	0.1625
59 4-Methyl-2-pentanone	43	13.074	13.009	(1.178)	11956	0.16000	0.1638
60 cis-1,3-Dichloropropene	75	13.047	13.052	(1.175)	16517	0.16000	0.1963
61 trans-1,3-Dichloropropene	75	13.741	13.740	(0.868)	16579	0.16000	0.1794
62 Toluene	91	13.854	13.859	(0.876)	30373	0.16000	0.1919
63 1,1,2-Trichloroethane	97	13.946	13.939	(0.881)	11006	0.16000	0.1924

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc162.d
Report Date: 19-Mar-2007 19:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
64 2-Hexanone	58	14.392	14.413	(0.910)	5319	0.16000	0.1491
65 Octane	85	14.527	14.531	(0.918)	10930	0.16000	0.1896
66 Dibromochloromethane	129	14.645	14.639	(0.926)	22582	0.16000	0.1817
67 1,2-Dibromoethane	107	14.935	14.934	(0.944)	18816	0.16000	0.1933
68 Tetrachloroethene	129	14.995	14.994	(0.948)	14618	0.16000	0.1960
69 Chlorobenzene	112	15.872	15.870	(1.003)	25402	0.16000	0.1965
70 Ethylbenzene	91	16.157	16.156	(1.021)	35113	0.16000	0.1873
71 m&p-Xylene	91	16.313	16.317	(1.031)	54660	0.32000	0.3769
72 Nonane	57	16.716	16.720	(1.056)	18234	0.16000	0.1840
73 Bromoform	173	16.770	16.774	(1.060)	21137	0.16000	0.1822
74 Styrene	104	16.781	16.774	(1.060)	17562	0.16000	0.1848
75 o-Xylene	91	16.840	16.839	(1.064)	28919	0.16000	0.1834
76 1,1,2,2-Tetrachloroethane	83	17.173	17.172	(1.085)	19956	0.16000	0.1795
77 1,2,3-Trichloropropane	110	17.329	17.323	(1.095)	5489	0.16000	0.1804
78 Cumene	105	17.421	17.420	(1.101)	37370	0.16000	0.1762
79 a-Pinene	93	17.647	17.646	(1.115)	32482	0.16000	0.1777
80 n-Propylbenzene	120	17.959	17.963	(1.135)	9701	0.16000	0.1839
81 Camphene	93	17.970	17.979	(1.136)	20369	0.16000	0.1840
82 2-chlorotoluene	126	18.002	18.006	(1.138)	10394	0.16000	0.1899
83 4-Ethyltoluene	105	18.104	18.108	(1.144)	35192	0.16000	0.1734
84 1,3,5-Trimethylbenzene	120	18.174	18.178	(1.149)	12704	0.16000	0.1692
85 b-Pinene	93	18.432	18.431	(1.165)	24352	0.16000	0.1722
86 Alpha-Methylstyrene	118	18.411	18.410	(1.164)	12204	0.16000	0.1623
87 Decane	57	18.448	18.453	(1.166)	17879	0.16000	0.1653
88 1,2,4-Trimethylbenzene	105	18.615	18.614	(1.176)	26746	0.16000	0.1696
89 tert-butylbenzene	119	18.599	18.603	(1.175)	30270	0.16000	0.1718
90 sec-butylbenzene	105	18.862	18.861	(1.192)	41709	0.16000	0.1762
91 1,3-Dichlorobenzene	146	18.884	18.883	(1.193)	22359	0.16000	0.1963
92 Benzyl Chloride	91	18.959	18.964	(1.198)	24384	0.16000	0.1692
93 1,4-Dichlorobenzene	146	18.970	18.969	(1.199)	21105	0.16000	0.1901
94 p-Cymene	119	19.024	19.028	(1.202)	32163	0.16000	0.1655
95 d-Limonene	68	19.094	19.093	(1.207)	10699	0.16000	0.1407
96 1,2-Dichlorobenzene	146	19.325	19.329	(1.221)	21085	0.16000	0.1970
97 n-butylbenzene	91	19.449	19.453	(1.229)	27700	0.16000	0.1575
98 Undecane	57	19.750	19.749	(1.248)	16221	0.16000	0.1492
99 4-tert-Butyltoluene	133	19.885	19.884	(1.257)	26262	0.16000	0.1468
101 Dodecane	57	20.804	20.809	(1.315)	13372	0.16000	0.1407
102 1,2,4-Trichlorobenzene	180	21.030	21.029	(1.329)	13107	0.16000	0.2030
103 Napthalene	128	21.176	21.180	(1.338)	22907	0.16000	0.1886
104 Hexachlorobutadiene	225	21.391	21.390	(1.352)	18650	0.16000	0.1974
105 1,2,3-trichlorobenzene	180	21.472	21.476	(1.357)	13045	0.16000	0.2108

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc162.d
Date : 16-MAR-2007 10:46
Client ID: STD0.16
Sample Info: ICAL2,,1,2,,STD0.16
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mj.i
Operator: 3386
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J031607I.b/jicc163.d
Report Date: 19-Mar-2007 19:22

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J031607I.b/jicc163.d
Lab Smp Id: ICAL3 Client Smp ID: STD0.32
Inj Date : 16-MAR-2007 11:25
Operator : 3386 Inst ID: mj.i
Smp Info : ICAL3,,1,3,,STD0.32
Misc Info : J031607I,TO15,,,,160 ML CX1505
Comment :
Method : /var/chem/gcms/mj.i/J031607I.b/TO15.m
Meth Date : 19-Mar-2007 19:22 tajh Quant Type: ISTD
Cal Date : 16-MAR-2007 11:25 Cal File: jicc163.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
* 1 Bromochloromethane	128	8.915	8.915	(1.000)	204220	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.104	11.104	(1.000)	779129	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.822	15.822	(1.000)	685478	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.926	9.926	(0.894)	204516	4.00000	4.125
$ 5 Toluene-d8	98	13.740	13.746	(0.868)	686411	4.00000	4.115
$ 6 4-Bromofluorobenzene	95	17.458	17.457	(1.103)	549760	4.00000	3.974
7 Chlorodifluoromethane	51	3.719	3.707	(0.417)	37067	0.32000	0.2784
8 Dichlorodifluoromethane	85	3.778	3.772	(0.424)	70737	0.32000	0.2888
9 Propene	41	3.724	3.724	(0.418)	16363	0.32000	0.2984
10 Chloromethane	52	3.961	3.955	(0.444)	6914	0.32000	0.3383
11 1,2-Dichlorotetrafluoroethane	135	3.966	3.960	(0.445)	37049	0.32000	0.2948
12 Methanol	31	4.106	4.100	(0.461)	10387	0.32000	0.6246
13 Vinyl Chloride	62	4.138	4.132	(0.464)	18204	0.32000	0.2804
14 n-Butane	43	4.224	4.219	(0.474)	26645	0.32000	0.2915
15 1,3-Butadiene	54	4.224	4.219	(0.474)	12016	0.32000	0.2890
16 Bromomethane	94	4.552	4.541	(0.511)	21967	0.32000	0.2793

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc163.d
Report Date: 19-Mar-2007 19:22

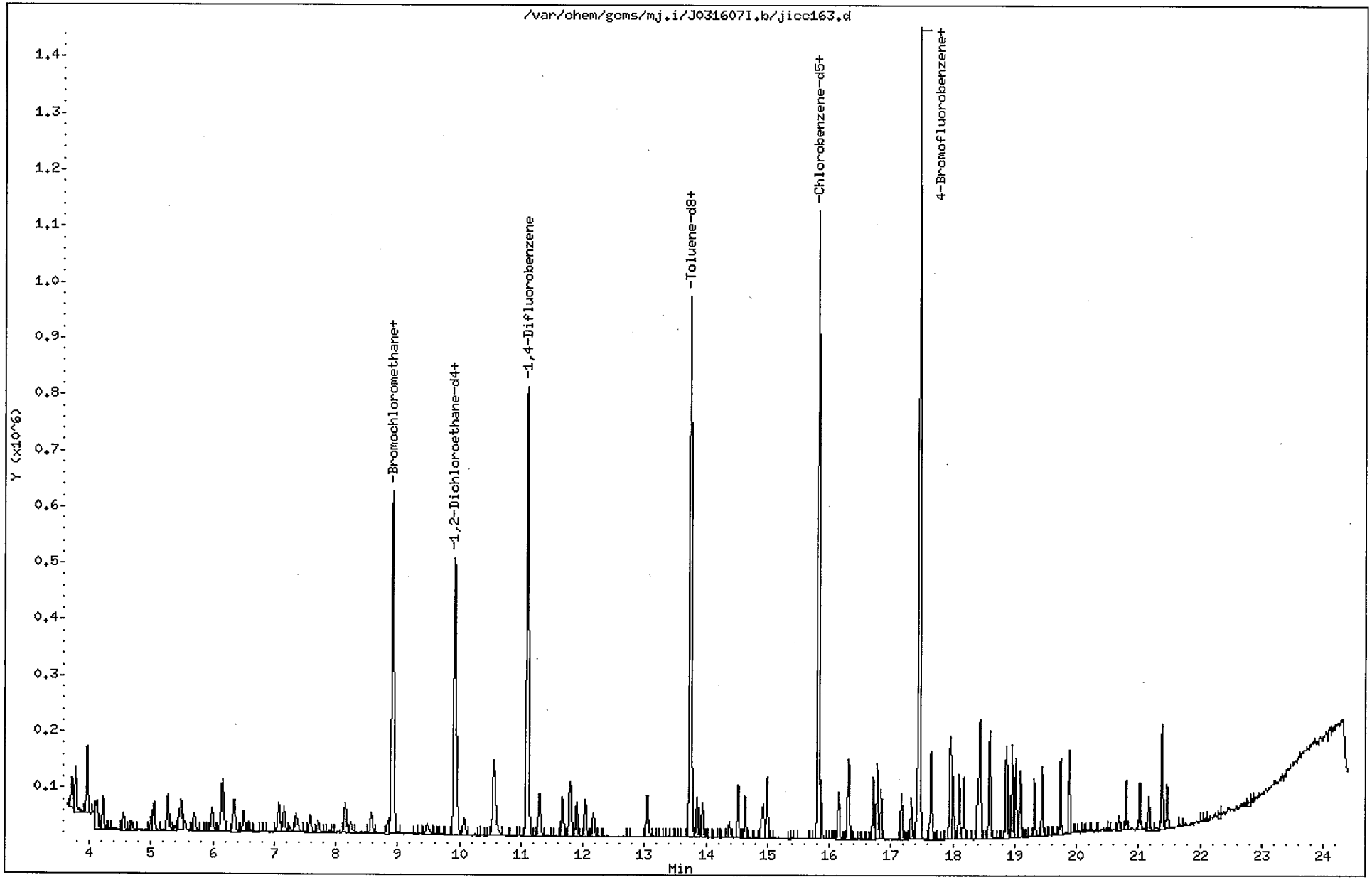
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
17 Chloroethane	64	4.692	4.692	(0.526)	10142	0.32000	0.2968
18 Vinyl Bromide	106	5.004	4.993	(0.561)	20904	0.32000	0.2743
19 2-methyl butane	43	5.047	5.036	(0.566)	23700	0.32000	0.2947
20 Trichlorofluoromethane	101	5.268	5.273	(0.591)	69104	0.32000	0.2834
21 Acrolein	56	5.300	5.290	(0.594)	5016	0.32000	0.2837
22 Acetonitrile	40	5.381	5.380	(0.604)	7762	0.32000	0.3585
23 Acetone	58	5.456	5.483	(0.612)	14056	0.32000	0.7559
24 Pentane	57	5.488	5.483	(0.616)	5988	0.32000	0.3103
25 Isopropyl alcohol	45	5.542	5.563	(0.622)	24315	0.32000	0.3073
26 Ethyl Ether	31	5.698	5.714	(0.639)	21171	0.32000	0.3594
27 1,1-Dichloroethene	96	5.994	5.983	(0.672)	19373	0.32000	0.2760
28 tert-butanol	59	6.155	6.193	(0.690)	31113	0.32000	0.2914
29 Acrylonitrile	53	6.118	6.107	(0.686)	11084	0.32000	0.3671
30 1,1,2-Trichlorotrifluoroethane	101	6.161	6.155	(0.691)	39839	0.32000	0.2838
31 Methylene Chloride	84	6.344	6.343	(0.712)	18603	0.32000	0.3092
32 3-Chloropropene	39	6.360	6.354	(0.713)	20611	0.32000	0.2830
33 Carbon Disulfide	76	6.510	6.499	(0.730)	61781	0.32000	0.2865
34 2,3-Dimethyl butane	43	7.075	7.075	(0.794)	48525	0.32000	0.2879
35 trans-1,2-Dichloroethene	96	7.161	7.161	(0.803)	20932	0.32000	0.2778
36 Methyl-t-Butyl Ether	73	7.355	7.403	(0.825)	49665	0.32000	0.3547
37 1,1-Dichloroethane	63	7.586	7.586	(0.851)	39458	0.32000	0.3063
38 Vinyl Acetate	43	7.715	7.726	(0.865)	39650	0.32000	0.3760
39 Hexane	56	8.151	8.151	(0.914)	15810	0.32000	0.3015
40 2-Butanone	72	8.243	8.179	(0.925)	6949	0.32000	0.3423
41 cis 1,2-Dichloroethene	96	8.582	8.576	(0.963)	20777	0.32000	0.2944
42 Ethyl acetate	43	8.834	8.872	(0.991)	31655	0.32000	0.3602
43 Chloroform	83	8.926	8.920	(1.001)	48749	0.32000	0.3097
44 Tetrahydrofuran	42	9.469	9.544	(1.062)	17035	0.32000	0.3636
45 1,1,1-Trichloroethane	97	9.959	9.958	(1.117)	53137	0.32000	0.3023
46 1,2-Dichloroethane	62	10.082	10.077	(0.908)	34673	0.32000	0.3174
47 Cyclohexane	69	10.556	10.556	(0.951)	9351	0.32000	0.2785
48 1-Butanol	31	10.626	10.546	(0.957)	6436	0.32000	0.2572
49 Benzene	78	10.556	10.556	(0.951)	60049	0.32000	0.3198
50 Carbon Tetrachloride	117	10.577	10.577	(1.186)	54826	0.32000	0.2976
51 2,2,4-trimethylpentane	57	11.298	11.303	(1.017)	90891	0.32000	0.2935
52 Heptane	43	11.675	11.674	(1.051)	33280	0.32000	0.2999
53 1,2-Dichloropropane	63	11.793	11.787	(1.062)	19512	0.32000	0.3410
54 Trichloroethene	130	11.809	11.809	(1.063)	30819	0.32000	0.2805
55 Dibromomethane	93	11.901	11.906	(1.072)	28774	0.32000	0.2951
56 Bromodichloromethane	83	12.051	12.046	(1.085)	52048	0.32000	0.3174
57 1,4-dioxane	88	12.175	12.100	(1.096)	8664	0.32000	0.3045
58 Methyl Methacrylate	41	12.175	12.191	(1.096)	19140	0.32000	0.3291
59 4-Methyl-2-pentanone	43	13.057	13.009	(1.176)	27421	0.32000	0.3102
60 cis-1,3-Dichloropropene	75	13.046	13.052	(1.175)	33529	0.32000	0.3291
61 trans-1,3-Dichloropropene	75	13.740	13.740	(0.868)	33586	0.32000	0.3223
62 Toluene	91	13.859	13.859	(0.876)	58365	0.32000	0.3270
63 1,1,2-Trichloroethane	97	13.945	13.939	(0.881)	21798	0.32000	0.3381

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc163.d
Report Date: 19-Mar-2007 19:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
64	2-Hexanone	58	14.381	14.413	(0.909)	12211	0.32000	0.3036
65	Octane	85	14.531	14.531	(0.918)	19604	0.32000	0.3016
66	Dibromochloromethane	129	14.644	14.639	(0.926)	44382	0.32000	0.3168
67	1,2-Dibromoethane	107	14.935	14.934	(0.944)	36669	0.32000	0.3342
68	Tetrachloroethene	129	14.988	14.994	(0.947)	25480	0.32000	0.3031
69	Chlorobenzene	112	15.871	15.870	(1.003)	47403	0.32000	0.3253
70	Ethylbenzene	91	16.156	16.156	(1.021)	69495	0.32000	0.3288
71	m&p-Xylene	91	16.317	16.317	(1.031)	109283	0.64000	0.6684
72	Nonane	57	16.715	16.720	(1.056)	34719	0.32000	0.3108
73	Bromoform	173	16.774	16.774	(1.060)	40356	0.32000	0.3086
74	Styrene	104	16.780	16.774	(1.061)	35090	0.32000	0.3276
75	o-Xylene	91	16.839	16.839	(1.064)	60682	0.32000	0.3414
76	1,1,2,2-Tetrachloroethane	83	17.173	17.172	(1.085)	43518	0.32000	0.3472
77	1,2,3-Trichloropropane	110	17.329	17.323	(1.095)	12041	0.32000	0.3511
78	Cumene	105	17.420	17.420	(1.101)	80694	0.32000	0.3374
79	a-Pinene	93	17.646	17.646	(1.115)	70001	0.32000	0.3398
80	n-Propylbenzene	120	17.958	17.963	(1.135)	20447	0.32000	0.3439
81	Camphene	93	17.974	17.979	(1.136)	43130	0.32000	0.3456
82	2-chlorotoluene	126	18.006	18.006	(1.138)	20296	0.32000	0.3289
83	4-Ethyltoluene	105	18.103	18.108	(1.144)	78228	0.32000	0.3419
84	1,3,5-Trimethylbenzene	120	18.178	18.178	(1.149)	30374	0.32000	0.3588
85	b-Pinene	93	18.431	18.431	(1.165)	54797	0.32000	0.3437
86	Alpha-Methylstyrene	118	18.404	18.410	(1.163)	26591	0.32000	0.3137
87	Decane	57	18.447	18.453	(1.166)	37403	0.32000	0.3067
88	1,2,4-Trimethylbenzene	105	18.609	18.614	(1.176)	61098	0.32000	0.3436
89	tert-butylbenzene	119	18.598	18.603	(1.175)	71308	0.32000	0.3590
90	sec-butylbenzene	105	18.862	18.861	(1.192)	93008	0.32000	0.3484
91	1,3-Dichlorobenzene	146	18.883	18.883	(1.193)	42214	0.32000	0.3288
92	Benzyl Chloride	91	18.959	18.964	(1.198)	53901	0.32000	0.3317
93	1,4-Dichlorobenzene	146	18.969	18.969	(1.199)	41452	0.32000	0.3312
94	p-Cymene	119	19.023	19.028	(1.202)	76143	0.32000	0.3475
95	d-Limonene	68	19.093	19.093	(1.207)	24610	0.32000	0.2872
96	1,2-Dichlorobenzene	146	19.324	19.329	(1.221)	40224	0.32000	0.3333
97	n-butylbenzene	91	19.453	19.453	(1.229)	65331	0.32000	0.3294
98	Undecane	57	19.749	19.749	(1.248)	38686	0.32000	0.3156
99	4-tert-Butyltoluene	133	19.884	19.884	(1.257)	64448	0.32000	0.3196
101	Dodecane	57	20.804	20.809	(1.315)	25131	0.32000	0.2346
102	1,2,4-Trichlorobenzene	180	21.030	21.029	(1.329)	25137	0.32000	0.3453
103	Napthalene	128	21.175	21.180	(1.338)	43282	0.32000	0.3161
104	Hexachlorobutadiene	225	21.385	21.390	(1.352)	38776	0.32000	0.3641
105	1,2,3-trichlorobenzene	180	21.471	21.476	(1.357)	23922	0.32000	0.3428

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc163.d
Date : 16-MAR-2007 11:25
Client ID: STD0.32
Sample Info: ICAL3,,1,3,,STD0.32
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mj.i
Operator: 3386
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J031607I.b/jicc164.d
Report Date: 19-Mar-2007 19:22

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J031607I.b/jicc164.d
Lab Smp Id: ICAL4 Client Smp ID: STD 1.8
Inj Date : 16-MAR-2007 12:03
Operator : 3386 Inst ID: mj.i
Smp Info : ICAL4,,1,4,,STD 1.8
Misc Info : J0301607I,TO15,,,,20 ML CX1494
Comment :
Method : /var/chem/gcms/mj.i/J031607I.b/TO15.m
Meth Date : 19-Mar-2007 19:22 tajh Quant Type: ISTD
Cal Date : 16-MAR-2007 12:03 Cal File: jicc164.d
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
* 1 Bromochloromethane	128	8.915	8.915	(1.000)	181114	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.105	11.104	(1.000)	611978	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.822	15.822	(1.000)	576935	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.926	9.926	(0.894)	150303	4.00000	3.860
$ 5 Toluene-d8	98	13.746	13.746	(0.869)	554208	4.00000	3.947
$ 6 4-Bromofluorobenzene	95	17.458	17.457	(1.103)	482561	4.00000	4.145
7 Chlorodifluoromethane	51	3.708	3.707	(0.416)	275222	1.80000	2.330
8 Dichlorodifluoromethane	85	3.772	3.772	(0.423)	516295	1.80000	2.377
9 Propene	41	3.724	3.724	(0.418)	113180	1.80000	2.327
10 Chloromethane	52	3.955	3.955	(0.444)	40385	1.80000	2.228
11 1,2-Dichlorotetrafluoroethane	135	3.961	3.960	(0.444)	269822	1.80000	2.421
12 Methanol	31	4.100	4.100	(0.460)	26228	1.80000	1.778
13 Vinyl Chloride	62	4.127	4.132	(0.463)	133322	1.80000	2.315
14 n-Butane	43	4.213	4.219	(0.473)	186160	1.80000	2.296
15 1,3-Butadiene	54	4.219	4.219	(0.473)	89171	1.80000	2.418
16 Bromomethane	94	4.547	4.541	(0.510)	167191	1.80000	2.397

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
17 Chloroethane	64	4.687	4.692	(0.526)	73704	1.80000	2.432
18 Vinyl Bromide	106	4.993	4.993	(0.560)	175694	1.80000	2.600
19 2-methyl butane	43	5.042	5.036	(0.566)	165350	1.80000	2.318
20 Trichlorofluoromethane	101	5.268	5.273	(0.591)	506491	1.80000	2.342
21 Acrolein	56	5.300	5.290	(0.594)	24061	1.80000	1.658
22 Acetonitrile	40	5.370	5.380	(0.602)	24672	1.80000	1.285
23 Acetone	58	5.440	5.483	(0.610)	22756	1.80000	1.380
24 Pentane	57	5.488	5.483	(0.616)	38727	1.80000	2.262
25 Isopropyl alcohol	45	5.505	5.563	(0.617)	167770	1.80000	2.391
26 Ethyl Ether	31	5.682	5.714	(0.637)	59172	1.80000	1.133
27 1,1-Dichloroethene	96	5.983	5.983	(0.671)	155543	1.80000	2.498
28 tert-butanol	59	6.107	6.193	(0.685)	240731	1.80000	2.543
29 Acrylonitrile	53	6.112	6.107	(0.686)	43376	1.80000	1.620
30 1,1,2-Trichlorotrifluoroethane	101	6.150	6.155	(0.690)	286503	1.80000	2.302
31 Methylene Chloride	84	6.344	6.343	(0.712)	116347	1.80000	2.181
32 3-Chloropropene	39	6.354	6.354	(0.713)	138693	1.80000	2.147
33 Carbon Disulfide	76	6.505	6.499	(0.730)	443997	1.80000	2.322
34 2,3-Dimethyl butane	43	7.070	7.075	(0.793)	337509	1.80000	2.258
35 trans-1,2-Dichloroethene	96	7.156	7.161	(0.803)	147997	1.80000	2.214
36 Methyl-t-Butyl Ether	73	7.328	7.403	(0.822)	175470	1.80000	1.413
37 1,1-Dichloroethane	63	7.581	7.586	(0.850)	229945	1.80000	2.013
38 Vinyl Acetate	43	7.705	7.726	(0.864)	124556	1.80000	1.332
39 Hexane	56	8.151	8.151	(0.914)	101491	1.80000	2.183
40 2-Butanone	72	8.210	8.179	(0.921)	26842	1.80000	1.491
41 cis 1,2-Dichloroethene	96	8.576	8.576	(0.962)	122743	1.80000	1.961
42 Ethyl acetate	43	8.818	8.872	(0.989)	115580	1.80000	1.483
43 Chloroform	83	8.920	8.920	(1.001)	247943	1.80000	1.776
44 Tetrahydrofuran	42	9.437	9.544	(1.059)	61302	1.80000	1.475
45 1,1,1-Trichloroethane	97	9.953	9.958	(1.116)	295674	1.80000	1.897
46 1,2-Dichloroethane	62	10.077	10.077	(0.907)	132358	1.80000	1.542
47 Cyclohexane	69	10.550	10.556	(0.950)	60179	1.80000	2.282
48 1-Butanol	31	10.577	10.546	(0.953)	51215	1.80000	2.606
49 Benzene	78	10.556	10.556	(0.951)	233639	1.80000	1.584
50 Carbon Tetrachloride	117	10.577	10.577	(1.186)	315572	1.80000	1.932
51 2,2,4-trimethylpentane	57	11.298	11.303	(1.017)	460893	1.80000	1.895
52 Heptane	43	11.675	11.674	(1.051)	173382	1.80000	1.989
53 1,2-Dichloropropane	63	11.788	11.787	(1.062)	66135	1.80000	1.472
54 Trichloroethene	130	11.815	11.809	(1.064)	167682	1.80000	1.943
55 Dibromomethane	93	11.906	11.906	(1.072)	133555	1.80000	1.744
56 Bromodichloromethane	83	12.046	12.046	(1.085)	200300	1.80000	1.555
57 1,4-dioxane	88	12.127	12.100	(1.092)	59610	1.80000	2.667
58 Methyl Methacrylate	41	12.164	12.191	(1.095)	81892	1.80000	1.792
59 4-Methyl-2-pentanone	43	13.030	13.009	(1.173)	159448	1.80000	2.296
60 cis-1,3-Dichloropropene	75	13.047	13.052	(1.175)	116762	1.80000	1.459
61 trans-1,3-Dichloropropene	75	13.741	13.740	(0.868)	125486	1.80000	1.431
62 Toluene	91	13.859	13.859	(0.876)	210375	1.80000	1.401
63 1,1,2-Trichloroethane	97	13.945	13.939	(0.881)	78792	1.80000	1.452

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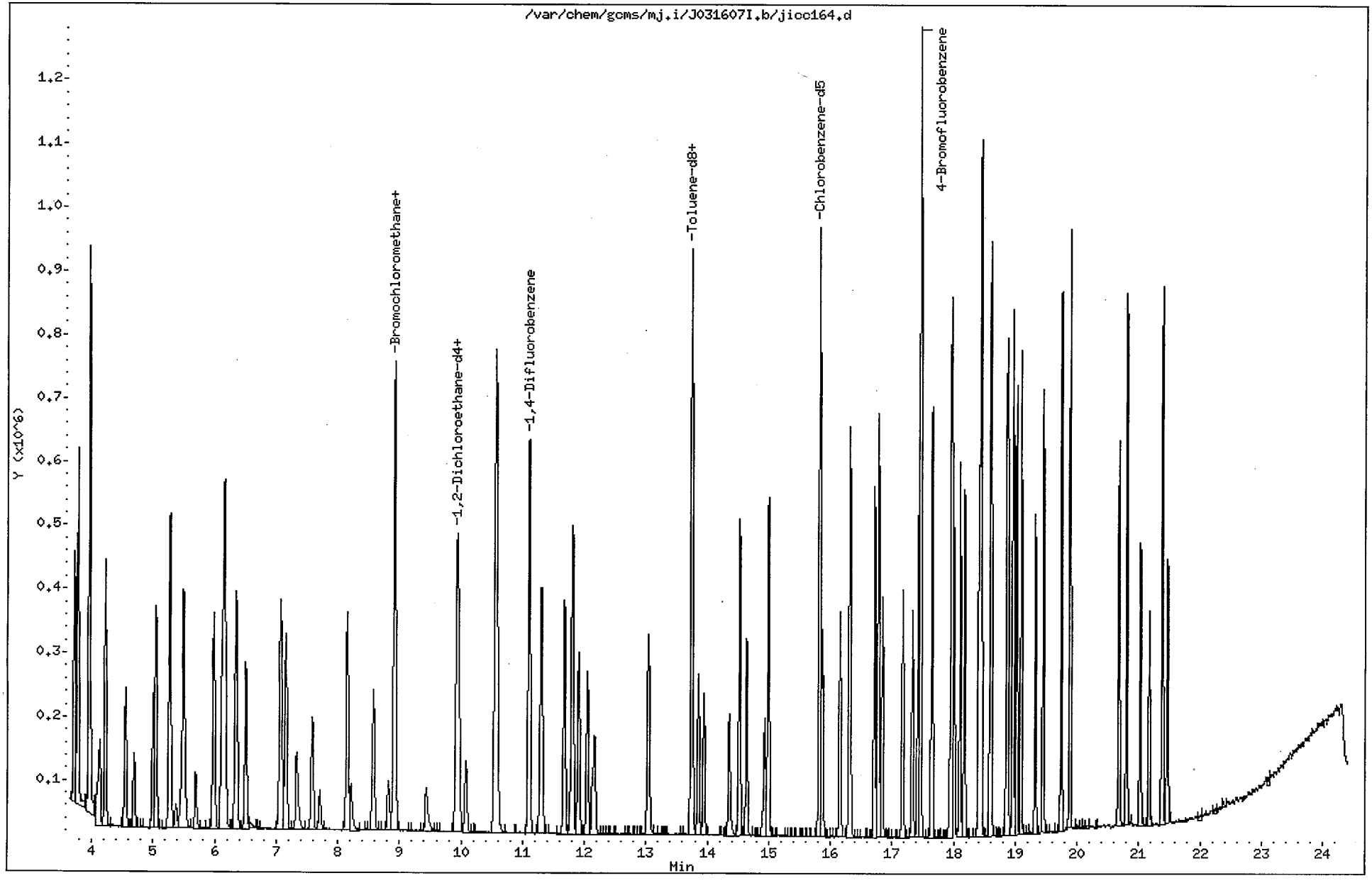
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
64 2-Hexanone	58	14.354	14.413	(0.907)	81084	1.80000	2.395
65 Octane	85	14.526	14.531	(0.918)	104363	1.80000	1.907
66 Dibromochloromethane	129	14.639	14.639	(0.925)	186476	1.80000	1.581
67 1,2-Dibromoethane	107	14.935	14.934	(0.944)	134868	1.80000	1.460
68 Tetrachloroethene	129	14.994	14.994	(0.948)	127302	1.80000	1.799
69 Chlorobenzene	112	15.871	15.870	(1.003)	192243	1.80000	1.567
70 Ethylbenzene	91	16.156	16.156	(1.021)	293237	1.80000	1.648
71 m&p-Xylene	91	16.312	16.317	(1.031)	487666	3.60000	3.544
72 Nonane	57	16.715	16.720	(1.056)	173485	1.80000	1.845
73 Bromoform	173	16.775	16.774	(1.060)	193748	1.80000	1.760
74 Styrene	104	16.780	16.774	(1.061)	169889	1.80000	1.885
75 o-Xylene	91	16.839	16.839	(1.064)	262947	1.80000	1.758
76 1,1,2,2-Tetrachloroethane	83	17.173	17.172	(1.085)	213789	1.80000	2.027
77 1,2,3-Trichloropropane	110	17.329	17.323	(1.095)	58462	1.80000	2.025
78 Cumene	105	17.420	17.420	(1.101)	363113	1.80000	1.804
79 a-Pinene	93	17.646	17.646	(1.115)	301470	1.80000	1.739
80 n-Propylbenzene	120	17.953	17.963	(1.135)	102690	1.80000	2.052
81 Camphene	93	17.969	17.979	(1.136)	181016	1.80000	1.723
82 2-chlorotoluene	126	18.001	18.006	(1.138)	91801	1.80000	1.767
83 4-Ethyltoluene	105	18.103	18.108	(1.144)	397480	1.80000	2.063
84 1,3,5-Trimethylbenzene	120	18.179	18.178	(1.149)	147259	1.80000	2.067
85 b-Pinene	93	18.431	18.431	(1.165)	252848	1.80000	1.884
86 Alpha-Methylstyrene	118	18.404	18.410	(1.163)	159900	1.80000	2.241
87 Decane	57	18.448	18.453	(1.166)	216755	1.80000	2.112
88 1,2,4-Trimethylbenzene	105	18.609	18.614	(1.176)	324641	1.80000	2.169
89 tert-butylbenzene	119	18.593	18.603	(1.175)	341577	1.80000	2.043
90 sec-butylbenzene	105	18.862	18.861	(1.192)	469759	1.80000	2.091
91 1,3-Dichlorobenzene	146	18.883	18.883	(1.193)	201881	1.80000	1.868
92 Benzyl Chloride	91	18.959	18.964	(1.198)	293113	1.80000	2.142
93 1,4-Dichlorobenzene	146	18.969	18.969	(1.199)	197637	1.80000	1.876
94 p-Cymene	119	19.023	19.028	(1.202)	394748	1.80000	2.141
95 d-Limonene	68	19.093	19.093	(1.207)	158706	1.80000	2.200
96 1,2-Dichlorobenzene	146	19.324	19.329	(1.221)	190294	1.80000	1.874
97 n-butylbenzene	91	19.453	19.453	(1.229)	378979	1.80000	2.271
98 Undecane	57	19.749	19.749	(1.248)	241014	1.80000	2.336
99 4-tert-Butyltoluene	133	19.884	19.884	(1.257)	409280	1.80000	2.412
100 Camphor	95	20.680	20.685	(1.307)	144871	1.80000	2.654
101 Dodecane	57	20.804	20.809	(1.315)	237412	1.80000	2.634
102 1,2,4-Trichlorobenzene	180	21.030	21.029	(1.329)	133453	1.80000	2.178
103 Napthalene	128	21.175	21.180	(1.338)	269165	1.80000	2.332
104 Hexachlorobutadiene	225	21.385	21.390	(1.352)	177605	1.80000	1.981
105 1,2,3-trichlorobenzene	180	21.465	21.476	(1.357)	128466	1.80000	2.188

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc164.d
Date : 16-MAR-2007 12:03
Client ID: STD 1.8
Sample Info: ICAL4,,1,4,,STD 1.8
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 3386
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J031607I.b/jicc165.d
Report Date: 19-Mar-2007 19:23

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J031607I.b/jicc165.d
Lab Smp Id: ICAL5 Client Smp ID: STD 4.0
Inj Date : 16-MAR-2007 12:42
Operator : 3386 Inst ID: mj.i
Smp Info : ICAL5,,1,5,,STD 4.0
Misc Info : J031607I,TO15,,,,40 ML CX1494
Comment :
Method : /var/chem/gcms/mj.i/J031607I.b/TO15.m
Meth Date : 19-Mar-2007 19:22 tajh Quant Type: ISTD
Cal Date : 16-MAR-2007 12:42 Cal File: jicc165.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
* 1 Bromochloromethane	128	8.916	8.915	(1.000)	203487	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.105	11.104	(1.000)	783463	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.823	15.822	(1.000)	736585	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.927	9.926	(0.894)	193084	4.00000	3.873
$ 5 Toluene-d8	98	13.746	13.746	(0.869)	703293	4.00000	3.924
$ 6 4-Bromofluorobenzene	95	17.458	17.457	(1.103)	605349	4.00000	4.073
7 Chlorodifluoromethane	51	3.714	3.707	(0.417)	561554	4.00000	4.232
8 Dichlorodifluoromethane	85	3.778	3.772	(0.424)	1071768	4.00000	4.392
9 Propene	41	3.725	3.724	(0.418)	231840	4.00000	4.243
10 Chloromethane	52	3.967	3.955	(0.445)	80932	4.00000	3.974
11 1,2-Dichlorotetrafluoroethane	135	3.967	3.960	(0.445)	563392	4.00000	4.499
12 Methanol	31	4.101	4.100	(0.460)	65573	4.00000	3.957
13 Vinyl Chloride	62	4.133	4.132	(0.464)	290237	4.00000	4.486
14 n-Butane	43	4.219	4.219	(0.473)	394656	4.00000	4.333
15 1,3-Butadiene	54	4.225	4.219	(0.474)	190251	4.00000	4.592
16 Bromomethane	94	4.553	4.541	(0.511)	350223	4.00000	4.468

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc165.d
Report Date: 19-Mar-2007 19:23

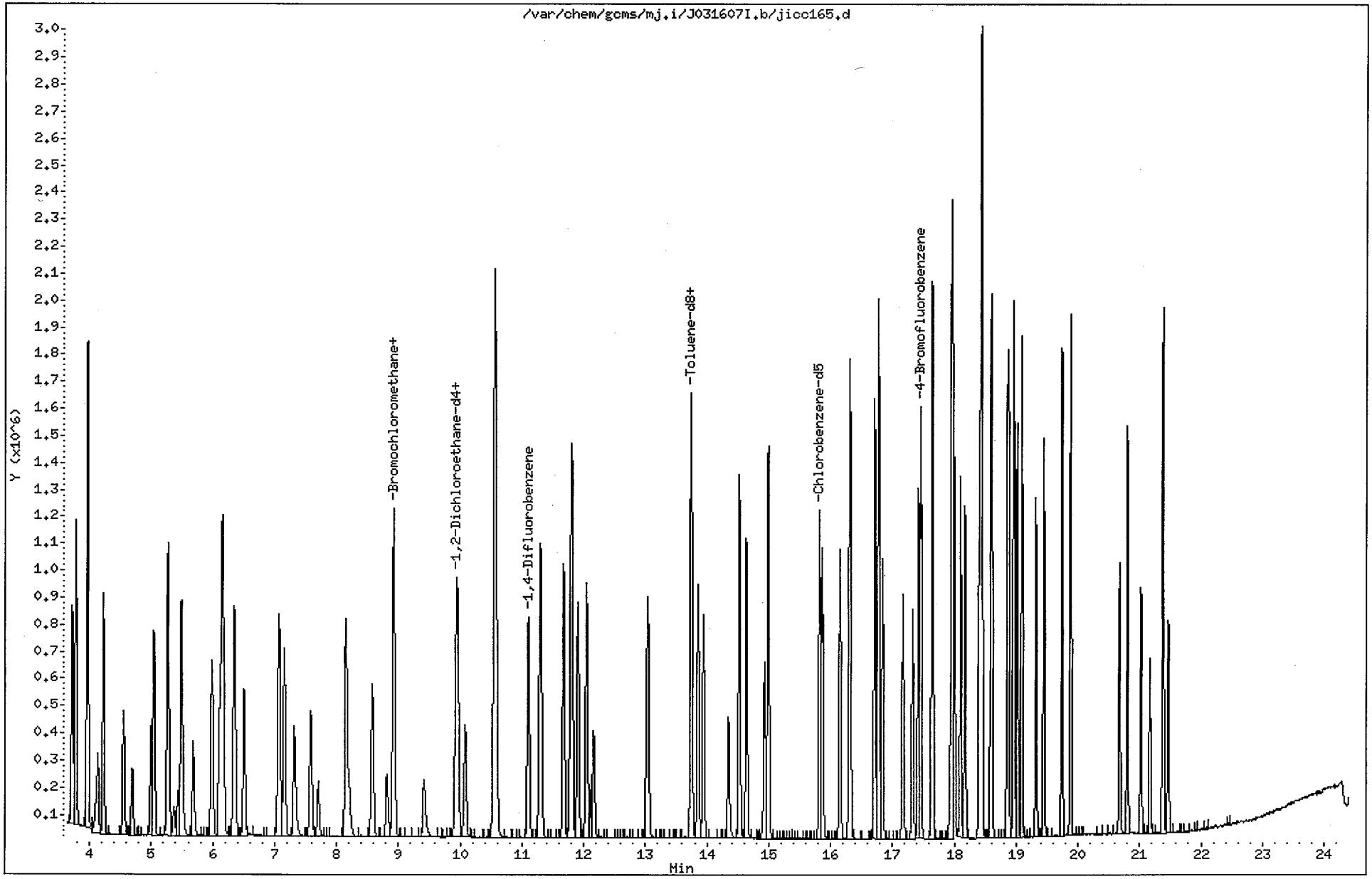
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
17 Chloroethane	64	4.693	4.692	(0.526)	157752	4.00000	4.633
18 Vinyl Bromide	106	4.999	4.993	(0.561)	331953	4.00000	4.372
19 2-methyl butane	43	5.043	5.036	(0.566)	353480	4.00000	4.411
20 Trichlorofluoromethane	101	5.268	5.273	(0.591)	1100771	4.00000	4.531
21 Acrolein	56	5.301	5.290	(0.595)	64669	4.00000	3.538
22 Acetonitrile	40	5.376	5.380	(0.603)	70296	4.00000	3.258
23 Acetone	58	5.435	5.483	(0.610)	68233	4.00000	3.682
24 Pentane	57	5.489	5.483	(0.616)	84807	4.00000	4.410
25 Isopropyl alcohol	45	5.505	5.563	(0.617)	309615	4.00000	3.928
26 Ethyl Ether	31	5.683	5.714	(0.637)	239053	4.00000	4.073
27 1,1-Dichloroethene	96	5.984	5.983	(0.671)	300738	4.00000	4.299
28 tert-butanol	59	6.108	6.193	(0.685)	426656	4.00000	4.011
29 Acrylonitrile	53	6.113	6.107	(0.686)	121831	4.00000	4.049
30 1,1,2-Trichlorotrifluoroethane	101	6.156	6.155	(0.690)	639712	4.00000	4.574
31 Methylene Chloride	84	6.344	6.343	(0.712)	257128	4.00000	4.290
32 3-Chloropropene	39	6.360	6.354	(0.713)	321351	4.00000	4.428
33 Carbon Disulfide	76	6.506	6.499	(0.730)	943096	4.00000	4.389
34 2,3-Dimethyl butane	43	7.071	7.075	(0.793)	757773	4.00000	4.512
35 trans-1,2-Dichloroethene	96	7.157	7.161	(0.803)	329040	4.00000	4.382
36 Methyl-t-Butyl Ether	73	7.318	7.403	(0.821)	552061	4.00000	3.957
37 1,1-Dichloroethane	63	7.587	7.586	(0.851)	587035	4.00000	4.574
38 Vinyl Acetate	43	7.705	7.726	(0.864)	396959	4.00000	3.778
39 Hexane	56	8.152	8.151	(0.914)	241920	4.00000	4.630
40 2-Butanone	72	8.206	8.179	(0.920)	74501	4.00000	3.683
41 cis 1,2-Dichloroethene	96	8.577	8.576	(0.962)	311749	4.00000	4.433
42 Ethyl acetate	43	8.808	8.872	(0.988)	335232	4.00000	3.828
43 Chloroform	83	8.926	8.920	(1.001)	701399	4.00000	4.472
44 Tetrahydrofuran	42	9.411	9.544	(1.056)	186424	4.00000	3.993
45 1,1,1-Trichloroethane	97	9.959	9.958	(1.117)	795544	4.00000	4.542
46 1,2-Dichloroethane	62	10.078	10.077	(0.907)	497879	4.00000	4.532
47 Cyclohexane	69	10.546	10.556	(0.950)	151003	4.00000	4.454
48 1-Butanol	31	10.567	10.546	(0.952)	96687	4.00000	3.843
49 Benzene	78	10.562	10.556	(0.951)	763542	4.00000	4.044
50 Carbon Tetrachloride	117	10.578	10.577	(1.186)	859901	4.00000	4.684
51 2,2,4-trimethylpentane	57	11.299	11.303	(1.017)	1292987	4.00000	4.152
52 Heptane	43	11.675	11.674	(1.051)	481849	4.00000	4.318
53 1,2-Dichloropropane	63	11.783	11.787	(1.061)	260759	4.00000	4.533
54 Trichloroethene	130	11.810	11.809	(1.063)	491451	4.00000	4.448
55 Dibromomethane	93	11.907	11.906	(1.072)	415991	4.00000	4.242
56 Bromodichloromethane	83	12.047	12.046	(1.085)	741015	4.00000	4.494
57 1,4-dioxane	88	12.117	12.100	(1.091)	119021	4.00000	4.089
58 Methyl Methacrylate	41	12.160	12.191	(1.095)	222816	4.00000	3.810
59 4-Methyl-2-pentanone	43	13.020	13.009	(1.172)	356982	4.00000	4.016
60 cis-1,3-Dichloropropene	75	13.047	13.052	(1.175)	454764	4.00000	4.439
61 trans-1,3-Dichloropropene	75	13.741	13.740	(0.868)	465185	4.00000	4.154
62 Toluene	91	13.859	13.859	(0.876)	780843	4.00000	4.072
63 1,1,2-Trichloroethane	97	13.946	13.939	(0.881)	293220	4.00000	4.232

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc165.d
Report Date: 19-Mar-2007 19:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
64	2-Hexanone	58	14.349	14.413	(0.907)	176915	4.00000	4.093
65	Octane	85	14.527	14.531	(0.918)	282589	4.00000	4.045
66	Dibromochloromethane	129	14.639	14.639	(0.925)	670991	4.00000	4.456
67	1,2-Dibromoethane	107	14.935	14.934	(0.944)	501676	4.00000	4.255
68	Tetrachloroethene	129	14.995	14.994	(0.948)	351679	4.00000	3.893
69	Chlorobenzene	112	15.871	15.870	(1.003)	643063	4.00000	4.106
70	Ethylbenzene	91	16.151	16.156	(1.021)	883139	4.00000	3.889
71	m&p-Xylene	91	16.312	16.317	(1.031)	1353101	8.00000	7.701
72	Nonane	57	16.716	16.720	(1.056)	522414	4.00000	4.352
73	Bromoform	173	16.775	16.774	(1.060)	623770	4.00000	4.439
74	Styrene	104	16.780	16.774	(1.060)	469375	4.00000	4.078
75	o-Xylene	91	16.840	16.839	(1.064)	711423	4.00000	3.725
76	1,1,2,2-Tetrachloroethane	83	17.168	17.172	(1.085)	487635	4.00000	3.621
77	1,2,3-Trichloropropane	110	17.329	17.323	(1.095)	138717	4.00000	3.764
78	Cumene	105	17.421	17.420	(1.101)	954481	4.00000	3.714
79	a-Pinene	93	17.641	17.646	(1.115)	936386	4.00000	4.230
80	n-Propylbenzene	120	17.953	17.963	(1.135)	239274	4.00000	3.745
81	Camphene	93	17.969	17.979	(1.136)	571175	4.00000	4.259
82	2-chlorotoluene	126	18.002	18.006	(1.138)	259215	4.00000	3.909
83	4-Ethyltoluene	105	18.104	18.108	(1.144)	901786	4.00000	3.668
84	1,3,5-Trimethylbenzene	120	18.174	18.178	(1.149)	329614	4.00000	3.623
85	b-Pinene	93	18.432	18.431	(1.165)	745366	4.00000	4.350
86	Alpha-Methylstyrene	118	18.405	18.410	(1.163)	360333	4.00000	3.956
87	Decane	57	18.448	18.453	(1.166)	588205	4.00000	4.488
88	1,2,4-Trimethylbenzene	105	18.610	18.614	(1.176)	688525	4.00000	3.603
89	tert-butylbenzene	119	18.593	18.603	(1.175)	750056	4.00000	3.514
90	sec-butylbenzene	105	18.862	18.861	(1.192)	1038123	4.00000	3.619
91	1,3-Dichlorobenzene	146	18.884	18.883	(1.193)	530829	4.00000	3.847
92	Benzyl Chloride	91	18.959	18.964	(1.198)	642876	4.00000	3.682
93	1,4-Dichlorobenzene	146	18.970	18.969	(1.199)	512810	4.00000	3.813
94	p-Cymene	119	19.018	19.028	(1.202)	847427	4.00000	3.599
95	d-Limonene	68	19.094	19.093	(1.207)	395251	4.00000	4.292
96	1,2-Dichlorobenzene	146	19.325	19.329	(1.221)	473436	4.00000	3.651
97	n-butylbenzene	91	19.449	19.453	(1.229)	787238	4.00000	3.696
98	Undecane	57	19.750	19.749	(1.248)	532852	4.00000	4.045
99	4-tert-Butyltoluene	133	19.884	19.884	(1.257)	822478	4.00000	3.796
100	Camphor	95	20.681	20.685	(1.307)	241243	4.00000	3.461
101	Dodecane	57	20.804	20.809	(1.315)	435059	4.00000	3.779
102	1,2,4-Trichlorobenzene	180	21.025	21.029	(1.329)	270123	4.00000	3.453
103	Napthalene	128	21.176	21.180	(1.338)	502415	4.00000	3.415
104	Hexachlorobutadiene	225	21.385	21.390	(1.352)	407290	4.00000	3.559
105	1,2,3-trichlorobenzene	180	21.466	21.476	(1.357)	243712	4.00000	3.250

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc165.d
Date : 16-MAR-2007 12:42
Client ID: STD 4.0
Sample Info: ICAL5,,1,5,,STD 4.0
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mj.i
Operator: 3386
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J031607I.b/jicc166.d
Report Date: 19-Mar-2007 19:23

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J031607I.b/jicc166.d
Lab Smp Id: ICAL6 Client Smp ID: STD 8.0
Inj Date : 16-MAR-2007 13:19
Operator : 3386 Inst ID: mj.i
Smp Info : ICAL6,,1,6,,STD 8.0
Misc Info : J031607I,TO15,,,,80 ML CX1494
Comment :
Method : /var/chem/gcms/mj.i/J031607I.b/TO15.m
Meth Date : 19-Mar-2007 19:22 tajh Quant Type: ISTD
Cal Date : 16-MAR-2007 13:19 Cal File: jicc166.d
Als bottle: 9 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
* 1 Bromochloromethane	128	8.916	8.915	(1.000)	208677	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.105	11.104	(1.000)	861889	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.823	15.822	(1.000)	776126	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.927	9.926	(0.894)	215430	4.00000	3.928
$ 5 Toluene-d8	98	13.746	13.746	(0.869)	777508	4.00000	4.117
$ 6 4-Bromofluorobenzene	95	17.458	17.457	(1.103)	633986	4.00000	4.048
7 Chlorodifluoromethane	51	3.708	3.707	(0.416)	960966	8.00000	7.062
8 Dichlorodifluoromethane	85	3.773	3.772	(0.423)	1825611	8.00000	7.294
9 Propene	41	3.719	3.724	(0.417)	397166	8.00000	7.088
10 Chloromethane	52	3.956	3.955	(0.444)	132485	8.00000	6.343
11 1,2-Dichlorotetrafluoroethane	135	3.961	3.960	(0.444)	943005	8.00000	7.344
12 Methanol	31	4.090	4.100	(0.459)	130223	8.00000	7.663
13 Vinyl Chloride	62	4.128	4.132	(0.463)	493489	8.00000	7.438
14 n-Butane	43	4.214	4.219	(0.473)	667744	8.00000	7.144
15 1,3-Butadiene	54	4.219	4.219	(0.473)	319984	8.00000	7.532
16 Bromomethane	94	4.547	4.541	(0.510)	593865	8.00000	7.388

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc166.d
Report Date: 19-Mar-2007 19:23

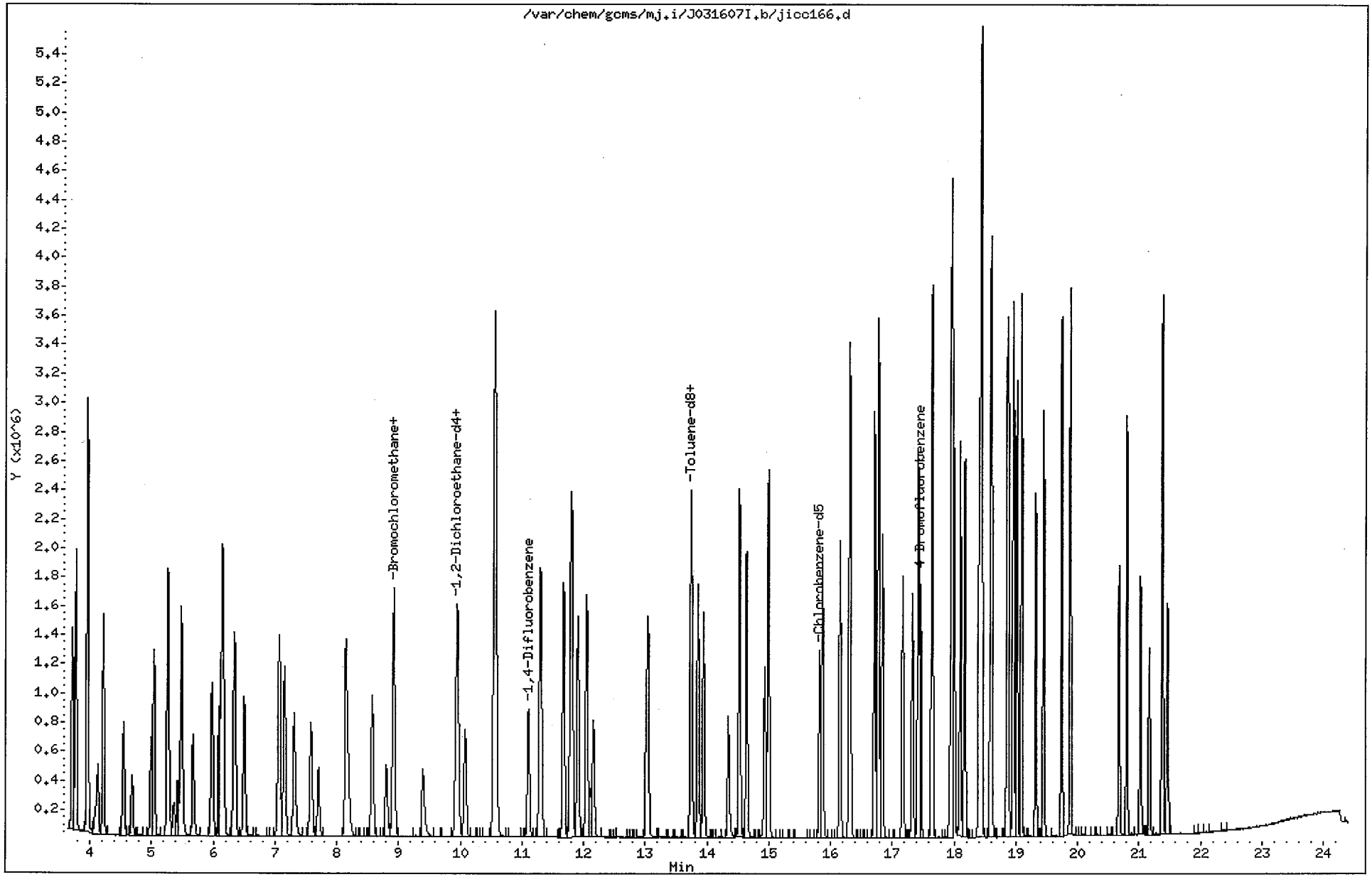
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
17 Chloroethane	64	4.687	4.692	(0.526)	270876	8.00000	7.756
18 Vinyl Bromide	106	4.994	4.993	(0.560)	557734	8.00000	7.162
19 2-methyl butane	43	5.037	5.036	(0.565)	595276	8.00000	7.244
20 Trichlorofluoromethane	101	5.263	5.273	(0.590)	1851960	8.00000	7.434
21 Acrolein	56	5.290	5.290	(0.593)	137090	8.00000	8.252
22 Acetonitrile	40	5.360	5.380	(0.601)	154768	8.00000	6.994
23 Acetone	58	5.424	5.483	(0.608)	150683	8.00000	7.930
24 Pentane	57	5.484	5.483	(0.615)	143839	8.00000	7.293
25 Isopropyl alcohol	45	5.494	5.563	(0.616)	571309	8.00000	7.067
26 Ethyl Ether	31	5.672	5.714	(0.636)	479968	8.00000	7.975
27 1,1-Dichloroethene	96	5.984	5.983	(0.671)	489155	8.00000	6.819
28 tert-butanol	59	6.097	6.193	(0.684)	778333	8.00000	7.137
29 Acrylonitrile	53	6.102	6.107	(0.684)	255766	8.00000	8.289
30 1,1,2-Trichlorotrifluoroethane	101	6.151	6.155	(0.690)	1090211	8.00000	7.601
31 Methylene Chloride	84	6.339	6.343	(0.711)	432292	8.00000	7.032
32 3-Chloropropene	39	6.355	6.354	(0.713)	545423	8.00000	7.329
33 Carbon Disulfide	76	6.500	6.499	(0.729)	1635001	8.00000	7.420
34 2,3-Dimethyl butane	43	7.070	7.075	(0.793)	1281260	8.00000	7.440
35 trans-1,2-Dichloroethene	96	7.157	7.161	(0.803)	562475	8.00000	7.304
36 Methyl-t-Butyl Ether	73	7.307	7.403	(0.820)	1165371	8.00000	8.146
37 1,1-Dichloroethane	63	7.582	7.586	(0.850)	993676	8.00000	7.549
38 Vinyl Acetate	43	7.700	7.726	(0.864)	918259	8.00000	8.522
39 Hexane	56	8.152	8.151	(0.914)	410427	8.00000	7.660
40 2-Butanone	72	8.189	8.179	(0.919)	158338	8.00000	7.644
41 cis 1,2-Dichloroethene	96	8.577	8.576	(0.962)	536071	8.00000	7.434
42 Ethyl acetate	43	8.803	8.872	(0.987)	709098	8.00000	7.896
43 Chloroform	83	8.926	8.920	(1.001)	1224441	8.00000	7.614
44 Tetrahydrofuran	42	9.394	9.544	(1.054)	395792	8.00000	8.266
45 1,1,1-Trichloroethane	97	9.954	9.958	(1.116)	1396827	8.00000	7.778
46 1,2-Dichloroethane	62	10.078	10.077	(0.907)	885518	8.00000	7.327
47 Cyclohexane	69	10.551	10.556	(0.950)	252781	8.00000	6.805
48 1-Butanol	31	10.556	10.546	(0.951)	178999	8.00000	6.467
49 Benzene	78	10.556	10.556	(0.951)	1332045	8.00000	6.414
50 Carbon Tetrachloride	117	10.578	10.577	(1.186)	1469634	8.00000	7.807
51 2,2,4-trimethylpentane	57	11.299	11.303	(1.017)	2227590	8.00000	6.503
52 Heptane	43	11.675	11.674	(1.051)	830011	8.00000	6.761
53 1,2-Dichloropropane	63	11.783	11.787	(1.061)	477073	8.00000	7.539
54 Trichloroethene	130	11.810	11.809	(1.063)	784844	8.00000	6.457
55 Dibromomethane	93	11.907	11.906	(1.072)	732694	8.00000	6.792
56 Bromodichloromethane	83	12.046	12.046	(1.085)	1329338	8.00000	7.328
57 1,4-dioxane	88	12.111	12.100	(1.091)	217548	8.00000	6.904
58 Methyl Methacrylate	41	12.159	12.191	(1.095)	473341	8.00000	7.357
59 4-Methyl-2-pentanone	43	13.015	13.009	(1.172)	650460	8.00000	6.652
60 cis-1,3-Dichloropropene	75	13.047	13.052	(1.175)	835325	8.00000	7.411
61 trans-1,3-Dichloropropene	75	13.741	13.740	(0.868)	877329	8.00000	7.436
62 Toluene	91	13.859	13.859	(0.876)	1465487	8.00000	7.253
63 1,1,2-Trichloroethane	97	13.945	13.939	(0.881)	543120	8.00000	7.439

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc166.d
Report Date: 19-Mar-2007 19:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
64	2-Hexanone	58	14.344	14.413	(0.906)	320790	8.00000	7.043
65	Octane	85	14.526	14.531	(0.918)	496533	8.00000	6.746
66	Dibromochloromethane	129	14.645	14.639	(0.926)	1194900	8.00000	7.531
67	1,2-Dibromoethane	107	14.935	14.934	(0.944)	906676	8.00000	7.298
68	Tetrachloroethene	129	14.994	14.994	(0.948)	604678	8.00000	6.352
69	Chlorobenzene	112	15.871	15.870	(1.003)	1162416	8.00000	7.045
70	Ethylbenzene	91	16.156	16.156	(1.021)	1699090	8.00000	7.101
71	m&p-Xylene	91	16.312	16.317	(1.031)	2616729	16.0000	14.13
72	Nonane	57	16.716	16.720	(1.056)	935671	8.00000	7.398
73	Bromoform	173	16.775	16.774	(1.060)	1128304	8.00000	7.620
74	Styrene	104	16.780	16.774	(1.061)	907291	8.00000	7.485
75	o-Xylene	91	16.840	16.839	(1.064)	1455674	8.00000	7.234
76	1,1,2,2-Tetrachloroethane	83	17.173	17.172	(1.085)	994757	8.00000	7.010
77	1,2,3-Trichloropropane	110	17.329	17.323	(1.095)	274653	8.00000	7.073
78	Cumene	105	17.421	17.420	(1.101)	1953853	8.00000	7.216
79	a-Pinene	93	17.646	17.646	(1.115)	1714170	8.00000	7.349
80	n-Propylbenzene	120	17.959	17.963	(1.135)	477750	8.00000	7.096
81	Camphene	93	17.975	17.979	(1.136)	1068479	8.00000	7.562
82	2-chlorotoluene	126	18.007	18.006	(1.138)	492180	8.00000	7.044
83	4-Ethyltoluene	105	18.104	18.108	(1.144)	1851645	8.00000	7.145
84	1,3,5-Trimethylbenzene	120	18.179	18.178	(1.149)	711475	8.00000	7.432
85	b-Pinene	93	18.432	18.431	(1.165)	1379670	8.00000	7.642
86	Alpha-Methylstyrene	118	18.405	18.410	(1.163)	743136	8.00000	7.741
87	Decane	57	18.448	18.453	(1.166)	1088590	8.00000	7.883
88	1,2,4-Trimethylbenzene	105	18.609	18.614	(1.176)	1435776	8.00000	7.130
89	tert-butylbenzene	119	18.593	18.603	(1.175)	1571457	8.00000	6.987
90	sec-butylbenzene	105	18.862	18.861	(1.192)	2126634	8.00000	7.036
91	1,3-Dichlorobenzene	146	18.884	18.883	(1.193)	963377	8.00000	6.627
92	Benzyl Chloride	91	18.959	18.964	(1.198)	1275048	8.00000	6.928
93	1,4-Dichlorobenzene	146	18.970	18.969	(1.199)	928531	8.00000	6.552
94	p-Cymene	119	19.024	19.028	(1.202)	1753162	8.00000	7.067
95	d-Limonene	68	19.094	19.093	(1.207)	791818	8.00000	8.160
96	1,2-Dichlorobenzene	146	19.325	19.329	(1.221)	898175	8.00000	6.574
97	n-butylbenzene	91	19.449	19.453	(1.229)	1592875	8.00000	7.094
98	Undecane	57	19.750	19.749	(1.248)	1047021	8.00000	7.543
99	4-tert-Butyltoluene	133	19.884	19.884	(1.257)	1637458	8.00000	7.173
100	Camphor	95	20.675	20.685	(1.307)	442326	8.00000	6.023
101	Dodecane	57	20.804	20.809	(1.315)	821938	8.00000	6.778
102	1,2,4-Trichlorobenzene	180	21.025	21.029	(1.329)	531022	8.00000	6.443
103	Napthalene	128	21.175	21.180	(1.338)	1000524	8.00000	6.445
104	Hexachlorobutadiene	225	21.385	21.390	(1.352)	787816	8.00000	6.532
105	1,2,3-trichlorobenzene	180	21.466	21.476	(1.357)	491348	8.00000	6.220

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc166.d
Date : 16-MAR-2007 13:19
Client ID: STD 8.0
Sample Info: ICAL6,,1,6,,STD 8.0
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mj.i
Operator: 3386
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J031607I.b/jicc167.d
Report Date: 19-Mar-2007 19:23

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J031607I.b/jicc167.d
Lab Smp Id: ICAL7 Client Smp ID: STD 16
Inj Date : 16-MAR-2007 13:56
Operator : 3386 Inst ID: mj.i
Smp Info : ICAL7,,1,7,,STD 16
Misc Info : J031607I,TO15,,,,120 ML CX1494
Comment :
Method : /var/chem/gcms/mj.i/J031607I.b/TO15.m
Meth Date : 19-Mar-2007 19:22 tajh Quant Type: ISTD
Cal Date : 16-MAR-2007 13:56 Cal File: jicc167.d
Als bottle: 10 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
* 1 Bromochloromethane	128	8.915	8.915	(1.000)	164087	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.105	11.104	(1.000)	643982	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.822	15.822	(1.000)	605576	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.927	9.926	(0.894)	156047	4.00000	3.808
$ 5 Toluene-d8	98	13.746	13.746	(0.869)	571804	4.00000	3.880
$ 6 4-Bromofluorobenzene	95	17.463	17.457	(1.104)	496050	4.00000	4.059
7 Chlorodifluoromethane	51	3.708	3.707	(0.416)	1714629	16.0000	16.02
8 Dichlorodifluoromethane	85	3.772	3.772	(0.423)	3238084	16.0000	16.45
9 Propene	41	3.719	3.724	(0.417)	701494	16.0000	15.92
10 Chloromethane	52	3.955	3.955	(0.444)	230204	16.0000	14.02
11 1,2-Dichlorotetrafluoroethane	135	3.961	3.960	(0.444)	1639741	16.0000	16.24
12 Methanol	31	4.090	4.100	(0.459)	238923	16.0000	17.88
13 Vinyl Chloride	62	4.127	4.132	(0.463)	883298	16.0000	16.93
14 n-Butane	43	4.214	4.219	(0.473)	1197818	16.0000	16.30
15 1,3-Butadiene	54	4.214	4.219	(0.473)	572974	16.0000	17.15
16 Bromomethane	94	4.542	4.541	(0.509)	1060634	16.0000	16.78

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc167.d
Report Date: 19-Mar-2007 19:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
17 Chloroethane	64	4.687	4.692	(0.526)	482248	16.0000	17.56
18 Vinyl Bromide	106	4.994	4.993	(0.560)	1000283	16.0000	16.34
19 2-methyl butane	43	5.037	5.036	(0.565)	1086484	16.0000	16.81
20 Trichlorofluoromethane	101	5.263	5.273	(0.590)	3313453	16.0000	16.91
21 Acrolein	56	5.289	5.290	(0.593)	256654	16.0000	19.67
22 Acetonitrile	40	5.359	5.380	(0.601)	295813	16.0000	17.00
23 Acetone	58	5.419	5.483	(0.608)	289042	16.0000	19.34
24 Pentane	57	5.483	5.483	(0.615)	255007	16.0000	16.44
25 Isopropyl alcohol	45	5.488	5.563	(0.616)	1156907	16.0000	18.20
26 Ethyl Ether	31	5.666	5.714	(0.636)	893632	16.0000	18.88
27 1,1-Dichloroethene	96	5.983	5.983	(0.671)	875632	16.0000	15.52
28 tert-butanol	59	6.091	6.193	(0.683)	1598616	16.0000	18.64
29 Acrylonitrile	53	6.102	6.107	(0.684)	464615	16.0000	19.15
30 1,1,2-Trichlorotrifluoroethane	101	6.150	6.155	(0.690)	1868251	16.0000	16.56
31 Methylene Chloride	84	6.338	6.343	(0.711)	747013	16.0000	15.45
32 3-Chloropropene	39	6.355	6.354	(0.713)	944026	16.0000	16.13
33 Carbon Disulfide	76	6.500	6.499	(0.729)	2943767	16.0000	16.99
34 2,3-Dimethyl butane	43	7.065	7.075	(0.792)	2218195	16.0000	16.38
35 trans-1,2-Dichloroethene	96	7.156	7.161	(0.803)	975876	16.0000	16.12
36 Methyl-t-Butyl Ether	73	7.301	7.403	(0.819)	2222176	16.0000	19.75
37 1,1-Dichloroethane	63	7.581	7.586	(0.850)	1640373	16.0000	15.85
38 Vinyl Acetate	43	7.699	7.726	(0.864)	1774793	16.0000	20.95
39 Hexane	56	8.151	8.151	(0.914)	666039	16.0000	15.81
40 2-Butanone	72	8.184	8.179	(0.918)	318116	16.0000	19.53
41 cis 1,2-Dichloroethene	96	8.576	8.576	(0.962)	890552	16.0000	15.70
42 Ethyl acetate	43	8.797	8.872	(0.987)	1435527	16.0000	20.33
43 Chloroform	83	8.926	8.920	(1.001)	2032749	16.0000	16.07
44 Tetrahydrofuran	42	9.383	9.544	(1.052)	756359	16.0000	20.09
45 1,1,1-Trichloroethane	97	9.953	9.958	(1.116)	2272957	16.0000	16.10
46 1,2-Dichloroethane	62	10.077	10.077	(0.907)	1503371	16.0000	16.65
47 Cyclohexane	69	10.551	10.556	(0.950)	420203	16.0000	15.14
48 1-Butanol	31	10.551	10.546	(0.950)	384055	16.0000	18.57
49 Benzene	78	10.556	10.556	(0.951)	2157875	16.0000	13.91
50 Carbon Tetrachloride	117	10.577	10.577	(1.186)	2377001	16.0000	16.06
51 2,2,4-trimethylpentane	57	11.298	11.303	(1.017)	3709959	16.0000	14.50
52 Heptane	43	11.675	11.674	(1.051)	1420258	16.0000	15.48
53 1,2-Dichloropropane	63	11.782	11.787	(1.061)	820399	16.0000	17.35
54 Trichloroethene	130	11.809	11.809	(1.063)	1252220	16.0000	13.79
55 Dibromomethane	93	11.906	11.906	(1.072)	1234182	16.0000	15.31
56 Bromodichloromethane	83	12.051	12.046	(1.085)	2309535	16.0000	17.04
57 1,4-dioxane	88	12.100	12.100	(1.090)	433043	16.0000	18.39
58 Methyl Methacrylate	41	12.154	12.191	(1.094)	977183	16.0000	20.33
59 4-Methyl-2-pentanone	43	13.014	13.009	(1.172)	1396187	16.0000	19.11
60 cis-1,3-Dichloropropene	75	13.047	13.052	(1.175)	1505140	16.0000	17.87
61 trans-1,3-Dichloropropene	75	13.746	13.740	(0.869)	1616453	16.0000	17.56
62 Toluene	91	13.859	13.859	(0.876)	2652728	16.0000	16.82
63 1,1,2-Trichloroethane	97	13.945	13.939	(0.881)	999251	16.0000	17.54

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc167.d
Report Date: 19-Mar-2007 19:23

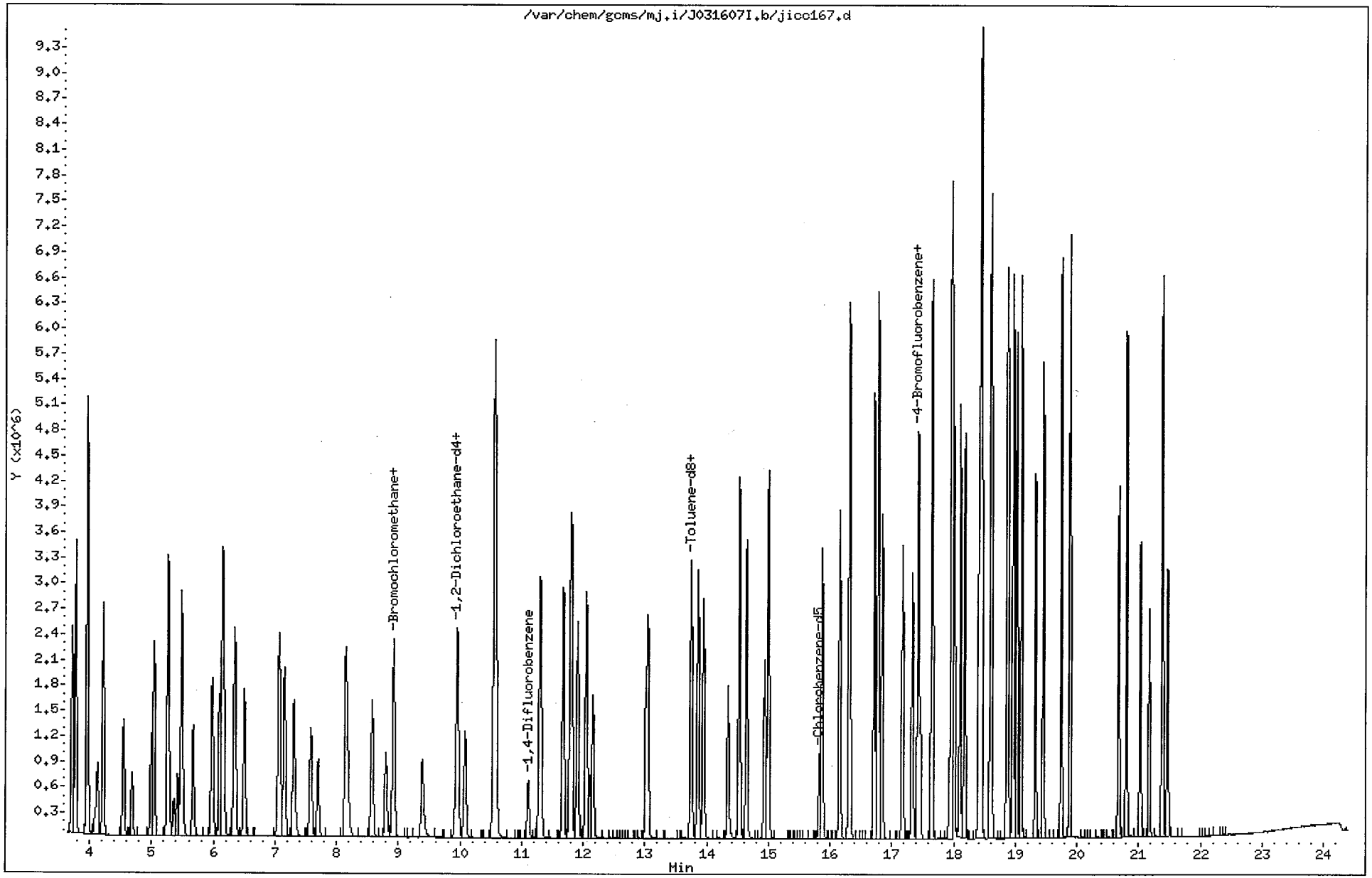
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
64	2-Hexanone	58	14.343	14.413	(0.906)	677347	16.0000	19.06
65	Octane	85	14.526	14.531	(0.918)	883484	16.0000	15.38
66	Dibromochloromethane	129	14.644	14.639	(0.926)	2160612	16.0000	17.45
67	1,2-Dibromoethane	107	14.935	14.934	(0.944)	1649597	16.0000	17.02
68	Tetrachloroethene	129	14.994	14.994	(0.948)	1053683	16.0000	14.18
69	Chlorobenzene	112	15.871	15.870	(1.003)	2058026	16.0000	15.98
70	Ethylbenzene	91	16.156	16.156	(1.021)	3183748	16.0000	17.05
71	m&p-Xylene	91	16.317	16.317	(1.031)	4800315	32.0000	33.23(A)
72	Nonane	57	16.715	16.720	(1.056)	1688205	16.0000	17.11
73	Bromoform	173	16.775	16.774	(1.060)	2016650	16.0000	17.46
74	Styrene	104	16.780	16.774	(1.061)	1662045	16.0000	17.57
75	o-Xylene	91	16.839	16.839	(1.064)	2713124	16.0000	17.28
76	1,1,2,2-Tetrachloroethane	83	17.173	17.172	(1.085)	1901230	16.0000	17.17
77	1,2,3-Trichloropropane	110	17.334	17.323	(1.096)	524241	16.0000	17.30
78	Cumene	105	17.420	17.420	(1.101)	3589553	16.0000	16.99
79	a-Pinene	93	17.646	17.646	(1.115)	2991295	16.0000	16.44
80	n-Propylbenzene	120	17.958	17.963	(1.135)	878412	16.0000	16.72
81	Camphene	93	17.974	17.979	(1.136)	1840920	16.0000	16.70
82	2-chlorotoluene	126	18.006	18.006	(1.138)	901286	16.0000	16.53
83	4-Ethyltoluene	105	18.103	18.108	(1.144)	3494120	16.0000	17.28
84	1,3,5-Trimethylbenzene	120	18.179	18.178	(1.149)	1296558	16.0000	17.36
85	b-Pinene	93	18.437	18.431	(1.165)	2386476	16.0000	16.94
86	Alpha-Methylstyrene	118	18.405	18.410	(1.163)	1409304	16.0000	18.82
87	Decane	57	18.453	18.453	(1.166)	1938171	16.0000	17.99
88	1,2,4-Trimethylbenzene	105	18.614	18.614	(1.176)	2696342	16.0000	17.16
89	tert-butylbenzene	119	18.598	18.603	(1.175)	2895765	16.0000	16.50
90	sec-butylbenzene	105	18.862	18.861	(1.192)	3913472	16.0000	16.60
91	1,3-Dichlorobenzene	146	18.883	18.883	(1.193)	1742452	16.0000	15.36
92	Benzyl Chloride	91	18.959	18.964	(1.198)	2470614	16.0000	17.20
93	1,4-Dichlorobenzene	146	18.975	18.969	(1.199)	1679011	16.0000	15.18
94	p-Cymene	119	19.023	19.028	(1.202)	3273398	16.0000	16.91
95	d-Limonene	68	19.093	19.093	(1.207)	1470922	16.0000	19.43
96	1,2-Dichlorobenzene	146	19.330	19.329	(1.222)	1634667	16.0000	15.33
97	n-butylbenzene	91	19.454	19.453	(1.229)	3004729	16.0000	17.15
98	Undecane	57	19.749	19.749	(1.248)	1960222	16.0000	18.10
99	4-tert-Butyltoluene	133	19.884	19.884	(1.257)	3133389	16.0000	17.59
100	Camphor	95	20.675	20.685	(1.307)	986759	16.0000	17.22
101	Dodecane	57	20.804	20.809	(1.315)	1744155	16.0000	18.43
102	1,2,4-Trichlorobenzene	180	21.030	21.029	(1.329)	1059655	16.0000	16.48
103	Napthalene	128	21.175	21.180	(1.338)	2094020	16.0000	17.29
104	Hexachlorobutadiene	225	21.390	21.390	(1.352)	1453689	16.0000	15.45
105	1,2,3-trichlorobenzene	180	21.471	21.476	(1.357)	977955	16.0000	15.87

QC Flag Legend

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

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc167.d
Date : 16-MAR-2007 13:56
Client ID: STD 16
Sample Info: ICAL7,,1,7,,STD 16
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mj.i
Operator: 3386
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J031607I.b/jicc168.d
Report Date: 19-Mar-2007 19:23

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J031607I.b/jicc168.d
Lab Smp Id: ICAL8 Client Smp ID: STD 24
Inj Date : 16-MAR-2007 14:36
Operator : 3386 Inst ID: mj.i
Smp Info : ICAL8,,1,8,,STD 24
Misc Info : J031607I,TO15,,,,240 ML CX1494
Comment :
Method : /var/chem/gcms/mj.i/J031607I.b/TO15.m
Meth Date : 19-Mar-2007 19:22 tajh Quant Type: ISTD
Cal Date : 16-MAR-2007 14:36 Cal File: jicc168.d
Als bottle: 11 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
* 1 Bromochloromethane	128	8.916	8.915	(1.000)	212660	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.105	11.104	(1.000)	896529	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.823	15.822	(1.000)	764677	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.927	9.926	(0.894)	218375	4.00000	3.828
$ 5 Toluene-d8	98	13.746	13.746	(0.869)	748771	4.00000	4.024
$ 6 4-Bromofluorobenzene	95	17.458	17.457	(1.103)	598307	4.00000	3.878
7 Chlorodifluoromethane	51	3.708	3.707	(0.416)	2449401	24.0000	17.66
8 Dichlorodifluoromethane	85	3.773	3.772	(0.423)	4563172	24.0000	17.89
9 Propene	41	3.724	3.724	(0.418)	1005747	24.0000	17.61
10 Chloromethane	52	3.961	3.955	(0.444)	322972	24.0000	15.17
11 1,2-Dichlorotetrafluoroethane	135	3.961	3.960	(0.444)	2277387	24.0000	17.40
12 Methanol	31	4.090	4.100	(0.459)	393867	24.0000	22.74
13 Vinyl Chloride	62	4.128	4.132	(0.463)	1265392	24.0000	18.72
14 n-Butane	43	4.214	4.219	(0.473)	1706178	24.0000	17.91
15 1,3-Butadiene	54	4.219	4.219	(0.473)	818704	24.0000	18.91
16 Bromomethane	94	4.547	4.541	(0.510)	1503043	24.0000	18.35

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc168.d
Report Date: 19-Mar-2007 19:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
17 Chloroethane	64	4.687	4.692	(0.526)	695211	24.0000	19.53
18 Vinyl Bromide	106	4.994	4.993	(0.560)	1431718	24.0000	18.04
19 2-methyl butane	43	5.037	5.036	(0.565)	1561140	24.0000	18.64
20 Trichlorofluoromethane	101	5.263	5.273	(0.590)	4639991	24.0000	18.28
21 Acrolein	56	5.290	5.290	(0.593)	442120	24.0000	25.51(A)
22 Acetonitrile	40	5.365	5.380	(0.602)	528849	24.0000	23.45
23 Acetone	58	5.419	5.483	(0.608)	517130	24.0000	26.70(A)
24 Pentane	57	5.483	5.483	(0.615)	365401	24.0000	18.18
25 Isopropyl alcohol	45	5.494	5.563	(0.616)	1971143	24.0000	23.92
26 Ethyl Ether	31	5.666	5.714	(0.636)	1533946	24.0000	25.01(A)
27 1,1-Dichloroethene	96	5.984	5.983	(0.671)	1224860	24.0000	16.76
28 tert-butanol	59	6.097	6.193	(0.684)	2645652	24.0000	23.80
29 Acrylonitrile	53	6.107	6.107	(0.685)	810783	24.0000	25.78(A)
30 1,1,2-Trichlorotrifluoroethane	101	6.151	6.155	(0.690)	2716758	24.0000	18.59
31 Methylene Chloride	84	6.339	6.343	(0.711)	1099908	24.0000	17.56
32 3-Chloropropene	39	6.355	6.354	(0.713)	1441043	24.0000	19.00
33 Carbon Disulfide	76	6.500	6.499	(0.729)	4202321	24.0000	18.72
34 2,3-Dimethyl butane	43	7.070	7.075	(0.793)	3268158	24.0000	18.62
35 trans-1,2-Dichloroethene	96	7.156	7.161	(0.803)	1429241	24.0000	18.21
36 Methyl-t-Butyl Ether	73	7.302	7.403	(0.819)	3748871	24.0000	25.71(A)
37 1,1-Dichloroethane	63	7.581	7.586	(0.850)	2566676	24.0000	19.13
38 Vinyl Acetate	43	7.700	7.726	(0.864)	3078050	24.0000	28.03(A)
39 Hexane	56	8.152	8.151	(0.914)	1039054	24.0000	19.03
40 2-Butanone	72	8.179	8.179	(0.917)	575428	24.0000	27.26(A)
41 cis 1,2-Dichloroethene	96	8.577	8.576	(0.962)	1378387	24.0000	18.76
42 Ethyl acetate	43	8.792	8.872	(0.986)	2650962	24.0000	28.97(A)
43 Chloroform	83	8.926	8.920	(1.001)	3210039	24.0000	19.59
44 Tetrahydrofuran	42	9.378	9.544	(1.052)	1340525	24.0000	27.47(A)
45 1,1,1-Trichloroethane	97	9.959	9.958	(1.117)	3572256	24.0000	19.52
46 1,2-Dichloroethane	62	10.083	10.077	(0.908)	2450296	24.0000	19.49
47 Cyclohexane	69	10.551	10.556	(0.950)	632276	24.0000	16.36
48 1-Butanol	31	10.546	10.546	(0.950)	629137	24.0000	21.85
49 Benzene	78	10.562	10.556	(0.951)	3386888	24.0000	15.68
50 Carbon Tetrachloride	117	10.578	10.577	(1.186)	3552097	24.0000	18.52
51 2,2,4-trimethylpentane	57	11.299	11.303	(1.017)	5805177	24.0000	16.29
52 Heptane	43	11.675	11.674	(1.051)	2265291	24.0000	17.74
53 1,2-Dichloropropane	63	11.783	11.787	(1.061)	1355247	24.0000	20.59
54 Trichloroethene	130	11.815	11.809	(1.064)	1837894	24.0000	14.54
55 Dibromomethane	93	11.912	11.906	(1.073)	1918118	24.0000	17.09
56 Bromodichloromethane	83	12.052	12.046	(1.085)	3597638	24.0000	19.07
57 1,4-dioxane	88	12.100	12.100	(1.090)	796292	24.0000	24.30(A)
58 Methyl Methacrylate	41	12.154	12.191	(1.094)	1806845	24.0000	27.00(A)
59 4-Methyl-2-pentanone	43	13.009	13.009	(1.171)	2606209	24.0000	25.62(A)
60 cis-1,3-Dichloropropene	75	13.047	13.052	(1.175)	2418808	24.0000	20.63
61 trans-1,3-Dichloropropene	75	13.746	13.740	(0.869)	2625796	24.0000	22.59
62 Toluene	91	13.859	13.859	(0.876)	4319996	24.0000	21.70
63 1,1,2-Trichloroethane	97	13.945	13.939	(0.881)	1599669	24.0000	22.24

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc168.d
Report Date: 19-Mar-2007 19:23

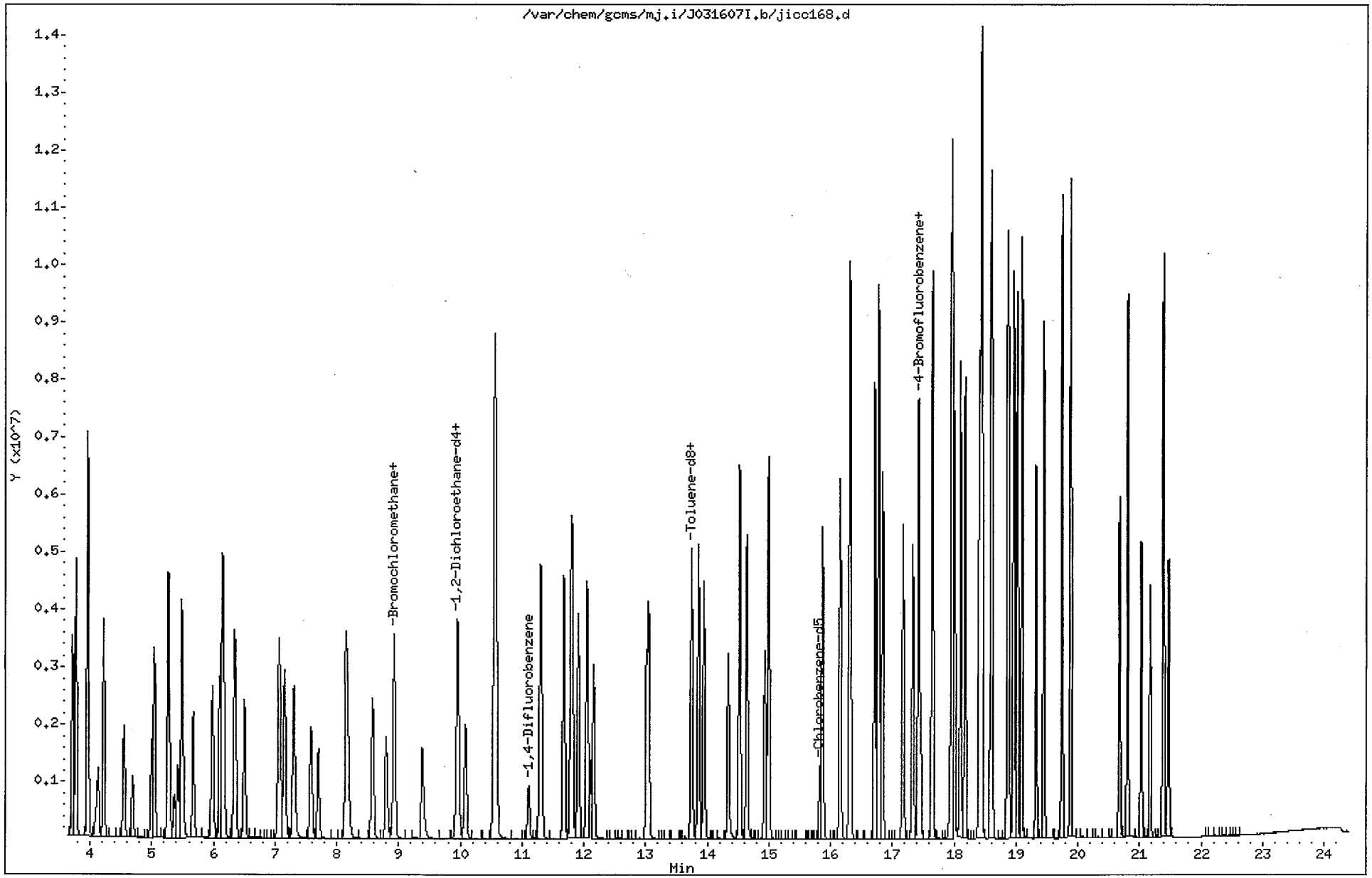
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
64	2-Hexanone	58	14.343	14.413	(0.906)	1223973	24.0000	27.28(A)
65	Octane	85	14.526	14.531	(0.918)	1366232	24.0000	18.84
66	Dibromochloromethane	129	14.645	14.639	(0.926)	3326074	24.0000	21.28
67	1,2-Dibromoethane	107	14.935	14.934	(0.944)	2601718	24.0000	21.25
68	Tetrachloroethene	129	14.994	14.994	(0.948)	1611060	24.0000	17.18
69	Chlorobenzene	112	15.871	15.870	(1.003)	3313450	24.0000	20.38
70	Ethylbenzene	91	16.156	16.156	(1.021)	5261685	24.0000	22.32
71	m&p-Xylene	91	16.318	16.317	(1.031)	7825360	48.0000	42.90(A)
72	Nonane	57	16.716	16.720	(1.056)	2584063	24.0000	20.74
73	Bromoform	173	16.775	16.774	(1.060)	3033723	24.0000	20.80
74	Styrene	104	16.780	16.774	(1.061)	2700416	24.0000	22.61
75	o-Xylene	91	16.840	16.839	(1.064)	4489221	24.0000	22.64
76	1,1,2,2-Tetrachloroethane	83	17.173	17.172	(1.085)	3038824	24.0000	21.74
77	1,2,3-Trichloropropane	110	17.334	17.323	(1.096)	861632	24.0000	22.52
78	Cumene	105	17.426	17.420	(1.101)	5878951	24.0000	22.04
79	a-Pinene	93	17.646	17.646	(1.115)	4557184	24.0000	19.83
80	n-Propylbenzene	120	17.958	17.963	(1.135)	1437390	24.0000	21.67
81	Camphene	93	17.975	17.979	(1.136)	2801300	24.0000	20.12
82	2-chlorotoluene	126	18.007	18.006	(1.138)	1409067	24.0000	20.47
83	4-Ethyltoluene	105	18.104	18.108	(1.144)	5756255	24.0000	22.54
84	1,3,5-Trimethylbenzene	120	18.179	18.178	(1.149)	2225008	24.0000	23.59
85	b-Pinene	93	18.437	18.431	(1.165)	3724729	24.0000	20.94
86	Alpha-Methylstyrene	118	18.410	18.410	(1.164)	2283314	24.0000	24.14(A)
87	Decane	57	18.453	18.453	(1.166)	3024898	24.0000	22.23
88	1,2,4-Trimethylbenzene	105	18.615	18.614	(1.176)	4277286	24.0000	21.56
89	tert-butylbenzene	119	18.599	18.603	(1.175)	4709073	24.0000	21.25
90	sec-butylbenzene	105	18.862	18.861	(1.192)	6330324	24.0000	21.26
91	1,3-Dichlorobenzene	146	18.884	18.883	(1.193)	2637034	24.0000	18.41
92	Benzyl Chloride	91	18.959	18.964	(1.198)	3836904	24.0000	21.16
93	1,4-Dichlorobenzene	146	18.975	18.969	(1.199)	2484036	24.0000	17.79
94	p-Cymene	119	19.024	19.028	(1.202)	5410842	24.0000	22.14
95	d-Limonene	68	19.099	19.093	(1.207)	2393334	24.0000	25.03(A)
96	1,2-Dichlorobenzene	146	19.330	19.329	(1.222)	2522057	24.0000	18.74
97	n-butylbenzene	91	19.454	19.453	(1.229)	5013165	24.0000	22.66
98	Undecane	57	19.750	19.749	(1.248)	3191277	24.0000	23.34
99	4-tert-Butyltoluene	133	19.884	19.884	(1.257)	5272720	24.0000	23.44
100	Camphor	95	20.675	20.685	(1.307)	1443445	24.0000	19.95
101	Dodecane	57	20.810	20.809	(1.315)	2809571	24.0000	23.51
102	1,2,4-Trichlorobenzene	180	21.030	21.029	(1.329)	1578297	24.0000	19.44
103	Napthalene	128	21.175	21.180	(1.338)	3354241	24.0000	21.93
104	Hexachlorobutadiene	225	21.391	21.390	(1.352)	2288129	24.0000	19.26
105	1,2,3-trichlorobenzene	180	21.471	21.476	(1.357)	1520896	24.0000	19.54

QC Flag Legend

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

Data File: /var/chem/gcms/mj.i/J031607I.b/jicc168.d
Date : 16-MAR-2007 14:36
Client ID: STD 24
Sample Info: ICAL8,,1,8,,STD 24
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mj.i
Operator: 3386
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J031607I.b/jicvc16.d
Report Date: 19-Mar-2007 19:24

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J031607I.b/jicvc16.d
Lab Smp Id: ICV Client Smp ID: LCS
Inj Date : 16-MAR-2007 15:57
Operator : 3386 Inst ID: mj.i
Smp Info : ICV,,3,,,LCS
Misc Info : J031607I,TO15,,,,40 ML CX1495
Comment :
Method : /var/chem/gcms/mj.i/J031607I.b/TO15.m
Meth Date : 19-Mar-2007 19:22 tajh Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 13 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.921	8.915	(1.000)	220936	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.105	11.104	(1.000)	876902	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.823	15.822	(1.000)	731470	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.927	9.926	(0.894)	220638	3.95414	9.885
$ 5 Toluene-d8	98	13.746	13.746	(0.869)	731739	4.11081	10.28
$ 6 4-Bromofluorobenzene	95	17.458	17.457	(1.103)	584665	3.96114	9.903
7 Chlorodifluoromethane	51	3.714	3.707	(0.416)	594263	4.12497	10.31
8 Dichlorodifluoromethane	85	3.773	3.772	(0.423)	1069512	4.03622	10.09
9 Propene	41	3.724	3.724	(0.417)	227334	3.83205	9.580
10 Chloromethane	52	3.961	3.955	(0.444)	80057	3.62031	9.051
11 1,2-Dichlorotetrafluoroethane	135	3.961	3.960	(0.444)	565631	4.16050	10.40
12 Methanol	31	4.096	4.100	(0.459)	52551	2.92067	7.302
13 Vinyl Chloride	62	4.133	4.132	(0.463)	288781	4.11119	10.28
14 n-Butane	43	4.219	4.219	(0.473)	406884	4.11183	10.28
15 1,3-Butadiene	54	4.219	4.219	(0.473)	199035	4.42507	11.06

Data File: /var/chem/gcms/mj.i/J031607I.b/jicvc16.d
Report Date: 19-Mar-2007 19:24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
16 Bromomethane	94	4.553	4.541	(0.510)	338248	3.97450	9.936
17 Chloroethane	64	4.693	4.692	(0.526)	156859	4.24211	10.60
18 Vinyl Bromide	106	4.999	4.993	(0.560)	353707	4.29029	10.72
19 2-methyl butane	43	5.042	5.036	(0.565)	364286	4.18703	10.47
20 Trichlorofluoromethane	101	5.268	5.273	(0.591)	1102710	4.18057	10.45
21 Acrolein	56	5.295	5.290	(0.594)	52141	2.89540	7.238
22 Acetonitrile	40	5.370	5.380	(0.602)	62899	2.68451	6.711
23 Acetone	58	5.435	5.483	(0.609)	67998	3.37981	8.450
24 Pentane	57	5.489	5.483	(0.615)	86206	4.12854	10.32
25 Isopropyl alcohol	45	5.500	5.563	(0.616)	295179	3.44871	8.622
26 Ethyl Ether	31	5.677	5.714	(0.636)	231543	3.63365	9.084
27 1,1-Dichloroethene	96	5.984	5.983	(0.671)	348410	4.58731	11.47
28 tert-butanol	59	6.102	6.193	(0.684)	394022	3.41245	8.531
29 Acrylonitrile	53	6.107	6.107	(0.685)	116611	3.56970	8.924
30 1,1,2-Trichlorotrifluoroethane	101	6.156	6.155	(0.690)	751546	4.94917	12.37
31 Methylene Chloride	84	6.344	6.343	(0.711)	298211	4.58201	11.46
32 3-Chloropropene	39	6.355	6.354	(0.712)	323234	4.10207	10.26
33 Carbon Disulfide	76	6.506	6.499	(0.729)	1000999	4.29101	10.73
34 2,3-Dimethyl butane	43	7.070	7.075	(0.793)	666311	3.65447	9.136
35 trans-1,2-Dichloroethene	96	7.156	7.161	(0.802)	336121	4.12272	10.31
36 Methyl-t-Butyl Ether	73	7.318	7.403	(0.820)	550913	3.63726	9.093
37 1,1-Dichloroethane	63	7.587	7.586	(0.850)	589444	4.22961	10.57
38 Vinyl Acetate	43	7.705	7.726	(0.864)	369094	3.23546	8.089
39 Hexane	56	8.152	8.151	(0.914)	240895	4.24665	10.62
40 2-Butanone	72	8.200	8.179	(0.919)	70806	3.22849	8.071
41 cis 1,2-Dichloroethene	96	8.577	8.576	(0.961)	320938	4.20343	10.51
42 Ethyl acetate	43	8.808	8.872	(0.987)	305192	3.20991	8.025
43 Chloroform	83	8.926	8.920	(1.001)	695223	4.08317	10.21
44 Tetrahydrofuran	42	9.410	9.544	(1.055)	181060	3.57143	8.928
45 1,1,1-Trichloroethane	97	9.954	9.958	(1.116)	804710	4.23209	10.58
46 1,2-Dichloroethane	62	10.083	10.077	(0.908)	496505	4.03765	10.09
47 Cyclohexane	69	10.551	10.556	(0.950)	154862	4.09738	10.24
48 1-Butanol	31	10.567	10.546	(0.952)	78799	2.79836	6.996
49 Benzene	78	10.556	10.556	(0.951)	771603	3.65204	9.130
50 Carbon Tetrachloride	117	10.578	10.577	(1.186)	877950	4.40513	11.01
51 2,2,4-trimethylpentane	57	11.299	11.303	(1.017)	1230881	3.53175	8.829
52 Heptane	43	11.675	11.674	(1.051)	456523	3.65508	9.138
53 1,2-Dichloropropane	63	11.783	11.787	(1.061)	258907	4.02117	10.05
54 Trichloroethene	130	11.810	11.809	(1.063)	494649	3.99977	9.999
55 Dibromomethane	93	11.907	11.906	(1.072)	389404	3.54776	8.869
56 Bromodichloromethane	83	12.046	12.046	(1.085)	729749	3.95395	9.885
57 1,4-dioxane	88	12.122	12.100	(1.092)	101635	3.17038	7.926
58 Methyl Methacrylate	41	12.154	12.191	(1.094)	196162	2.99662	7.492
59 4-Methyl-2-pentanone	43	13.025	13.009	(1.173)	321224	3.22885	8.072
60 cis-1,3-Dichloropropene	75	13.047	13.052	(1.175)	459926	4.01052	10.03
61 trans-1,3-Dichloropropene	75	13.741	13.740	(0.868)	464225	4.17471	10.44
62 Toluene	91	13.854	13.859	(0.876)	791010	4.15373	10.38

Data File: /var/chem/gcms/mj.i/J031607I.b/jicvc16.d
Report Date: 19-Mar-2007 19:24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
63 1,1,2-Trichloroethane	97	13.940	13.939	(0.881)	281384	4.08928	10.22
64 2-Hexanone	58	14.349	14.413	(0.907)	151607	3.53177	8.829
65 Octane	85	14.526	14.531	(0.918)	271104	3.90774	9.769
66 Dibromochloromethane	129	14.639	14.639	(0.925)	656526	4.39035	10.98
67 1,2-Dibromoethane	107	14.935	14.934	(0.944)	505172	4.31426	10.78
68 Tetrachloroethene	129	14.994	14.994	(0.948)	345571	3.85149	9.629
69 Chlorobenzene	112	15.871	15.870	(1.003)	640360	4.11775	10.29
70 Ethylbenzene	91	16.151	16.156	(1.021)	906897	4.02181	10.05
71 m&p-Xylene	91	16.312	16.317	(1.031)	1335004	7.65152	19.13
72 Nonane	57	16.716	16.720	(1.056)	517717	4.34313	10.86
73 Bromoform	173	16.775	16.774	(1.060)	603498	4.32485	10.81
74 Styrene	104	16.780	16.774	(1.060)	473337	4.14310	10.36
75 o-Xylene	91	16.840	16.839	(1.064)	705980	3.72238	9.306
76 1,1,2,2-Tetrachloroethane	83	17.168	17.172	(1.085)	459111	3.43295	8.582
77 1,2,3-Trichloropropane	110	17.329	17.323	(1.095)	126323	3.45187	8.630
78 Cumene	105	17.421	17.420	(1.101)	916897	3.59311	8.983
79 a-Pinene	93	17.646	17.646	(1.115)	811177	3.68981	9.224
80 n-Propylbenzene	120	17.953	17.963	(1.135)	226390	3.56793	8.920
81 Camphene	93	17.969	17.979	(1.136)	535823	4.02341	10.06
82 2-chlorotoluene	126	18.001	18.006	(1.138)	253203	3.84485	9.612
83 4-Ethyltoluene	105	18.104	18.108	(1.144)	848936	3.47594	8.690
84 1,3,5-Trimethylbenzene	120	18.174	18.178	(1.149)	332554	3.68613	9.215
85 b-Pinene	93	18.432	18.431	(1.165)	606459	3.56431	8.911
86 Alpha-Methylstyrene	118	18.405	18.410	(1.163)	318871	3.52446	8.811
87 Decane	57	18.448	18.453	(1.166)	571720	4.39293	10.98
88 1,2,4-Trimethylbenzene	105	18.609	18.614	(1.176)	658862	3.47184	8.680
89 tert-butylbenzene	119	18.593	18.603	(1.175)	712120	3.35953	8.399
90 sec-butylbenzene	105	18.862	18.861	(1.192)	992341	3.48381	8.710
91 1,3-Dichlorobenzene	146	18.884	18.883	(1.193)	542905	3.96232	9.906
92 Benzyl Chloride	91	18.959	18.964	(1.198)	572598	3.30117	8.253
93 1,4-Dichlorobenzene	146	18.970	18.969	(1.199)	532725	3.98845	9.971
94 p-Cymene	119	19.024	19.028	(1.202)	779625	3.33451	8.336
95 d-Limonene	68	19.094	19.093	(1.207)	320070	3.49981	8.750
96 1,2-Dichlorobenzene	146	19.325	19.329	(1.221)	464439	3.60671	9.017
97 n-butylbenzene	91	19.454	19.453	(1.229)	719883	3.40192	8.505
98 Undecane	57	19.744	19.749	(1.248)	522901	3.99722	9.993
99 4-tert-Butyltoluene	133	19.884	19.884	(1.257)	642696	2.98725	7.468
100 Camphor	95	20.680	20.685	(1.307)	27174	0.39261	0.9815(R)
101 Dodecane	57	20.804	20.809	(1.315)	380413	3.32835	8.321
102 1,2,4-Trichlorobenzene	180	21.025	21.029	(1.329)	274654	3.53566	8.839
103 Napthalene	128	21.175	21.180	(1.338)	482778	3.29985	8.250
104 Hexachlorobutadiene	225	21.385	21.390	(1.352)	431198	3.79344	9.484
105 1,2,3-trichlorobenzene	180	21.471	21.476	(1.357)	224235	3.01205	7.530

Data File: /var/chem/gcms/mj.i/J031607I.b/jicvc16.d
Report Date: 19-Mar-2007 19:24

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mj.i/J031607I.b/jicvc16.d
Report Date: 19-Mar-2007 19:24

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jicvc16.d
Lab Smp Id: ICV
Analysis Type: OTHER
Quant Type: ISTD
Operator: 3386
Method File: /var/chem/gcms/mj.i/J031607I.b/TO15.m
Misc Info: J031607I,TO15,,,,40 ML CX1495

Calibration Date: 16-MAR-2007
Calibration Time: 12:42
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	203487	121075	285899	220936	8.57
2 1,4-Difluorobenze	783463	466160	1100766	876902	11.93
3 Chlorobenzene-d5	736585	438268	1034902	731470	-0.69

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.92	8.59	9.25	8.92	0.06
2 1,4-Difluorobenze	11.11	10.78	11.44	11.11	0.00
3 Chlorobenzene-d5	15.82	15.49	16.15	15.82	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J031607I.b/jicvc16.d
Report Date: 19-Mar-2007 19:24

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: ICV
Level: LOW
Data Type: MS DATA
SpikeList File: icv.spk
Sublist File: all.sub
Method File: /var/chem/gcms/mj.i/J031607I.b/TO15.m
Misc Info: J031607I,TO15,,,,40 ML CX1495

Client SDG: J031607I
Fraction: OTHER
Client Smp ID: LCS
Operator: 3386
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
7 Chlorodifluorometh	10.00	10.31	103.12	65-135
8 Dichlorodifluorome	10.00	10.09	100.91	65-135
9 Propene	10.00	9.580	95.80	65-135
11 1,2-Dichlorotetraf	10.00	10.40	104.01	65-135
10 Chloromethane	10.00	9.051	90.51	65-135
12 Methanol	10.00	7.302	73.02	65-135
13 Vinyl Chloride	10.00	10.28	102.78	65-135
14 n-Butane	10.00	10.28	102.80	65-135
15 1,3-Butadiene	10.00	11.06	110.63	65-135
16 Bromomethane	10.00	9.936	99.36	65-135
17 Chloroethane	10.00	10.60	106.05	65-135
18 Vinyl Bromide	10.00	10.72	107.26	65-135
19 2-methyl butane	10.00	10.47	104.68	65-135
20 Trichlorofluoromet	10.00	10.45	104.51	65-135
21 Acrolein	10.00	7.238	72.39	65-135
22 Acetonitrile	10.00	6.711	67.11	65-135
23 Acetone	10.00	8.450	84.50	65-135
24 Pentane	10.00	10.32	103.21	65-135
26 Ethyl Ether	10.00	9.084	90.84	65-135
25 Isopropyl alcohol	10.00	8.622	86.22	65-135
27 1,1-Dichloroethene	10.00	11.47	114.68	65-135
29 Acrylonitrile	10.00	8.924	89.24	65-135
28 tert-butanol	10.00	8.531	85.31	65-135
30 1,1,2-Trichlorotri	10.00	12.37	123.73	65-135
31 Methylene Chloride	10.00	11.46	114.55	65-135
32 3-Chloropropene	10.00	10.26	102.55	65-135
33 Carbon Disulfide	10.00	10.73	107.28	65-135
34 2,3-Dimethyl butan	10.00	9.136	91.36	65-135
35 trans-1,2-Dichloro	10.00	10.31	103.07	65-135
36 Methyl-t-Butyl Eth	10.00	9.093	90.93	65-135
37 1,1-Dichloroethane	10.00	10.57	105.74	65-135
38 Vinyl Acetate	10.00	8.089	80.89	65-135
40 2-Butanone	10.00	8.071	80.71	65-135

Data File: /var/chem/gcms/mj.i/J031607I.b/jicvc16.d
Report Date: 19-Mar-2007 19:24

SPIKE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
39 Hexane	10.00	10.62	106.17	65-135
41 cis 1,2-Dichloroet	10.00	10.51	105.09	65-135
42 Ethyl acetate	10.00	8.025	80.25	65-135
43 Chloroform	10.00	10.21	102.08	65-135
44 Tetrahydrofuran	10.00	8.928	89.29	65-135
45 1,1,1-Trichloroeth	10.00	10.58	105.80	65-135
46 1,2-Dichloroethane	10.00	10.09	100.94	65-135
48 1-Butanol	10.00	6.996	69.96	65-135
47 Cyclohexane	10.00	10.24	102.43	65-135
49 Benzene	10.00	9.130	91.30	65-135
50 Carbon Tetrachlori	10.00	11.01	110.13	65-135
51 2,2,4-trimethylpen	10.00	8.829	88.29	65-135
52 Heptane	10.00	9.138	91.38	65-135
53 1,2-Dichloropropan	10.00	10.05	100.53	65-135
54 Trichloroethene	10.00	9.999	99.99	65-135
55 Dibromomethane	10.00	8.869	88.69	65-135
56 Bromodichlorometha	10.00	9.885	98.85	65-135
57 1,4-dioxane	10.00	7.926	79.26	65-135
58 Methyl Methacrylat	10.00	7.492	74.92	65-135
59 4-Methyl-2-pentano	10.00	8.072	80.72	65-135
60 cis-1,3-Dichloropr	10.00	10.03	100.26	65-135
61 trans-1,3-Dichloro	10.00	10.44	104.37	65-135
62 Toluene	10.00	10.38	103.84	65-135
63 1,1,2-Trichloroeth	10.00	10.22	102.23	65-135
64 2-Hexanone	10.00	8.829	88.29	65-135
65 Octane	10.00	9.769	97.69	65-135
66 Dibromochlorometha	10.00	10.98	109.76	65-135
67 1,2-Dibromoethane	10.00	10.78	107.86	65-135
68 Tetrachloroethene	10.00	9.629	96.29	65-135
69 Chlorobenzene	10.00	10.29	102.94	65-135
70 Ethylbenzene	10.00	10.05	100.55	65-135
71 m&p-Xylene	20.00	19.13	95.64	65-135
72 Nonane	10.00	10.86	108.58	65-135
73 Bromoform	10.00	10.81	108.12	65-135
74 Styrene	10.00	10.36	103.58	65-135
75 o-Xylene	10.00	9.306	93.06	65-135
76 1,1,2,2-Tetrachlor	10.00	8.582	85.82	65-135
77 1,2,3-Trichloropro	10.00	8.630	86.30	65-135
78 Cumene	10.00	8.983	89.83	65-135
79 a-Pinene	10.00	9.224	92.25	65-135
80 n-Propylbenzene	10.00	8.920	89.20	65-135
81 Camphene	10.00	10.06	100.59	65-135
82 2-chlorotoluene	10.00	9.612	96.12	65-135
83 4-Ethyltoluene	10.00	8.690	86.90	65-135
84 1,3,5-Trimethylben	10.00	9.215	92.15	65-135
86 Alpha-Methylstyren	10.00	8.811	88.11	65-135
85 b-Pinene	10.00	8.911	89.11	65-135

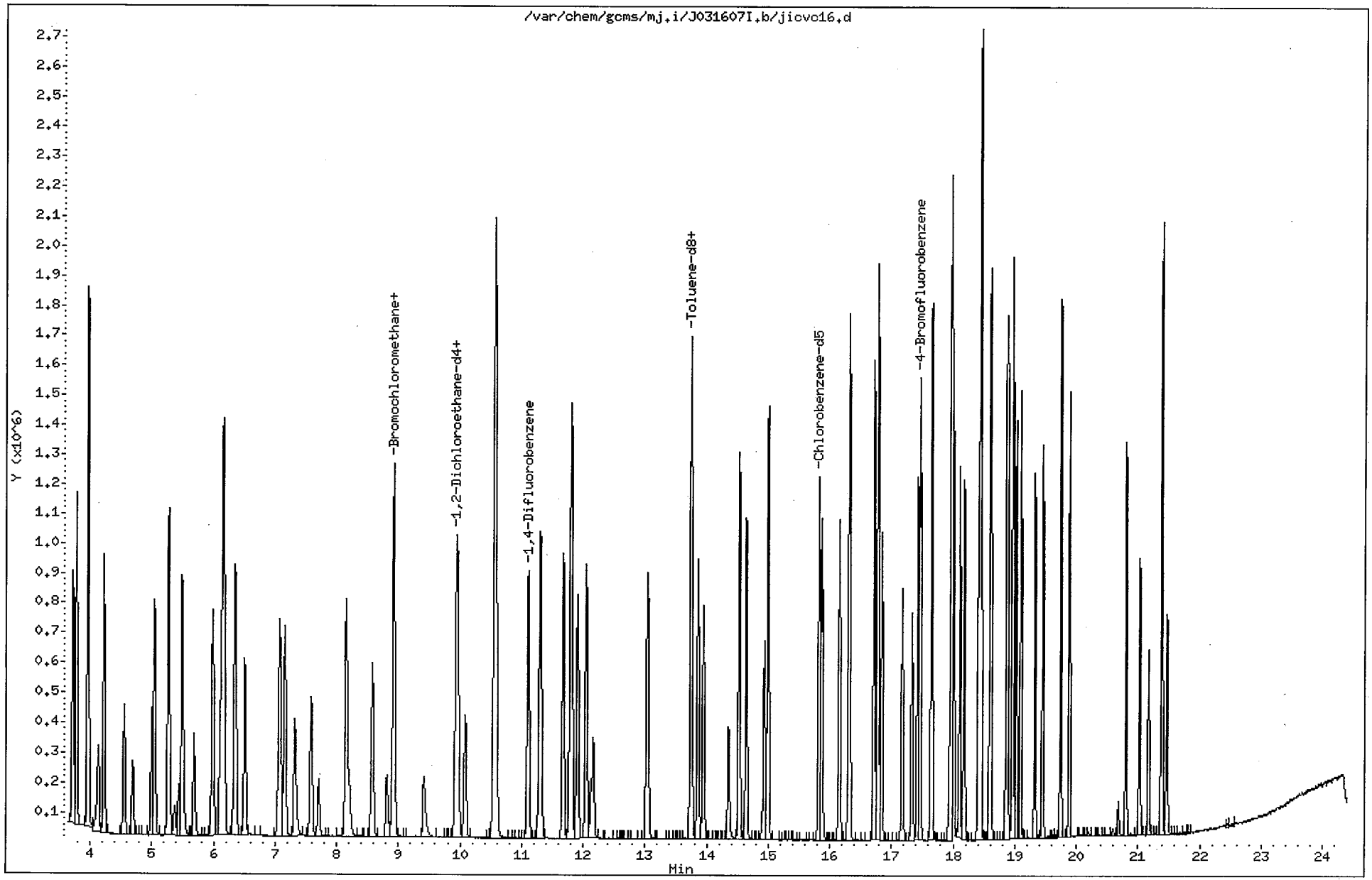
Data File: /var/chem/gcms/mj.i/J031607I.b/jicvc16.d
Report Date: 19-Mar-2007 19:24

SPIKE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS	
87 Decane	10.00	10.98	109.82	65-135	
88 1,2,4-Trimethylben	10.00	8.680	86.80	65-135	
89 tert-butylbenzene	10.00	8.399	83.99	65-135	
90 sec-butylbenzene	10.00	8.710	87.10	65-135	
91 1,3-Dichlorobenzen	10.00	9.906	99.06	65-135	
93 1,4-Dichlorobenzen	10.00	9.971	99.71	65-135	
92 Benzyl Chloride	10.00	8.253	82.53	65-135	
94 p-Cymene	10.00	8.336	83.36	65-135	
95 d-Limonene	10.00	8.750	87.50	65-135	
96 1,2-Dichlorobenzen	10.00	9.017	90.17	65-135	
97 n-butylbenzene	10.00	8.505	85.05	65-135	
98 Undecane	10.00	9.993	99.93	65-135	
99 4-tert-Butyltoluen	10.00	7.468	74.68	65-135	
100 Camphor	10.00	0.9815	9.82*	65-135	-NA
101 Dodecane	10.00	8.321	83.21	65-135	
102 1,2,4-Trichloroben	10.00	8.839	88.39	65-135	
103 Napthalene	10.00	8.250	82.50	65-135	
104 Hexachlorobutadien	10.00	9.484	94.84	65-135	
105 1,2,3-trichloroben	10.00	7.530	75.30	65-135	

SURROGATE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	10.00	9.885	98.85	70-130
$ 5 Toluene-d8	10.00	10.28	102.77	70-130
$ 6 4-Bromofluorobenze	10.00	9.903	99.03	70-130

Data File: /var/chem/gcms/mj.i/J031607I.b/jicvc16.d
Date : 16-MAR-2007 15:57
Client ID: LCS
Sample Info: ICV,,3,,,LCS
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mj.i
Operator: 3386
Column diameter: 0.32



STL Knoxville GC/MS Air Continuing Calibration Review / Narrative Checklist
Method: TO-14 and TO-15 - KNOX-MS-0001, Rev 9

Analysis Date:	4-16-07	CCAL Batch/ Scan Name:	J041607	Instrument:	MJ	ICAL Batch/ Scan Name:	J031607I	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 24 hr of BFB?		✓			✓
3. Have the Entech position no. & vol. been verified with run log & sample vol. corrected if actual amount differs >5%?		✓			✓
4. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
5. Was the CCAL compared to the correct ICAL?		✓			✓
6. Is the %D ≤ 30% for all target analytes? Up to 4 analytes allowed over 30% but ≤ 40% D (Narrative req'd.).		✓		Benzene (30.5%)	✓
7. Have all peaks been auto identified? If not, list:		✓			✓
8. 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
9. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				NA
10. Is the first IS documented correctly on the log?		✓			✓
11. Is the ICAL date & time on the CCAL correct?		✓			✓
12. Elution order checked on isomeric pairs?					
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane		✓			✓
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane		✓			✓
• vinyl acetate / hexane		✓			✓
• cis- and trans- isomers		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• 4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
13. Did the LCS meet criteria (nonpolar target analytes 70-130%, with up to 2 nonpolars 60-140%; polar target analytes 60-140%, with up to 2 polars 45-155%)?		✓		[lcs6] LCS analyte(s) flagged as being outside control limits, but SOP allows 2 polars and 2 nonpolars outside 70-130%R. for benzene	✓
14. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
15. Does the CCAL folder contain **complete** data in the following order: data review checklist, a **complete** runlog, Entech report, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, Quan report, chromatogram, manual integrations and leak check report.		✓			✓

Analyst: KM	Date: 4-16-07	2nd Level Reviewer : [illegible]	Date: 04/17/07
Comments:		Comments:	

STL Knoxville
TO-14/15 RUN LOG

GCMS Analysis: TO-14/15 for HTD140127 / 7107200 Inst: MJ

Analyst: HWT Qtims Batch: 7106566

Date: 4/16/07 ICAL Batch: J031607I Target Batch: J041607 IS #1 Area: 185541

Surr/IS ID & Vol.: 20mCV176 System Date/Time ok (y/n): y

Preventive Maintenance Performed ☑ Daily

Time	Use	Lot No.	File ID	Can #	Pos	Vol* (mL)	Can DF	Comments
1137	✓	tune	JBFBD16	–	16	100	1	
1206	N	CCV	JCCVD16	CX1510	15	40		
1257	✓	CCV/LCS	↓ D16A	CX1492	13	↓		benzene, hexachlorobutadiene
1411	N	bk	Blank	–	16	200		
1448	✓	↓	JB1KD16	–	16	200	↓	
1532	✓	HTD140127	JTX3F	6612	8	1000	9.58	bkgn.
1612	✓		3K	93176	9	200		
1649	✓		3M	2970	10			
1731	✓	↓	↓ 38	03839	11	↓	↓	
2330	✓	HTD110232	JTPG3	2965	1	25 ~~10~~	1	-1AD KM 4-16-07 magna
0011	✓		HA	6591	2	500		
0049	✓		HC	1491	3	↓	779.4	
0130	✓		HF	12738	4	~~100~~ 250	~~784.0~~ 4/17/07	KM 4-16-07 vol: 250
0208	N	RK 50mL 4/17/07	HX	6679	5	100	1	
0247	N	RK ~~50mL~~ 50mL	#1	0040	6	250		
0325	N	RK 50mL	H5	1425	7	250		
0405	N	RKc10 ?	H7	11345	8	500		
0445	N	RKc10 ?	H9	12836	9	250		
0524	✓		JE	12587	10	500		
0603	✓		JG	6574	11	250		
0641	✓		JH	1407	12	500		
0723	✓		JM	04333	14			
0805	✓		JR	12835	13			
notrun dup		↓	↓ JRD	12835	13	↓		
2047	N	Blk	Blank	—	16	500		leak check / blank
2252	✓	Blk	JB1KD16R	—	16	500	↓	
0846	N	HTD110232	JTP HXR	6679	5	500	1	lost connection
notrun		↓	↓ H1R	0040	6	250	↓	
notrun			H5R	1425	7	50		

* Entech programmed Volume. If the Entech report amount differs from the programmed amount by >5%, the Entech report amount is used for calulations.

Analyst: KM Date: 4-17-07

070416

STL-Knoxville
TO-14 Autosampler Log

Sample	Position/Volume	Date	Time
BFB	16 - 101 mL	4/16/2007	11:37:16 AM
CCV	15 - 41 mL	4/16/2007	12:06:14 PM
CCV	13 - 41 mL	4/16/2007	12:57:02 PM
BLK	16 - 200 mL	4/16/2007	2:11:17 PM
BLK	16 - 200 mL	4/16/2007	2:48:24 PM
JTX3F	8 - 1001 mL	4/16/2007	3:32:48 PM
JTX3K	9 - 200 mL	4/16/2007	4:12:05 PM
JTX3M	10 - 200 mL	4/16/2007	4:49:28 PM
JTX38	11 - 200 mL	4/16/2007	5:31:05 PM
BLANK	16 - 501 mL	4/16/2007	8:47:05 PM
BLANK	16 - 501 mL	4/16/2007	10:52:42 PM
JTPG3	1 - 25 mL	4/16/2007	11:30:13 PM
JTPHA	2 - 502 mL	4/17/2007	12:11:12 AM
JTPHC	3 - 501 mL	4/17/2007	12:49:45 AM
JTPHF	4 - 250 mL	4/17/2007	1:30:33 AM
JTPHX	5 - 100 mL	4/17/2007	2:08:26 AM
JTPH1	6 - 250 mL	4/17/2007	2:47:39 AM
JTPH5	7 - 250 mL	4/17/2007	3:25:20 AM
JTPH7	8 - 502 mL	4/17/2007	4:05:53 AM
JTPH9	9 - 252 mL	4/17/2007	4:45:50 AM
JTPJE	10 - 500 mL	4/17/2007	5:24:36 AM
JTPJG	11 - 252 mL	4/17/2007	6:03:08 AM
JTPJH	12 - 502 mL	4/17/2007	6:41:35 AM
JTPJM	14 - 500 mL	4/17/2007	7:23:17 AM
JTPJR	13 - 500 mL	4/17/2007	8:05:51 AM
JTPHX	5 - 502 mL	4/17/2007	8:46:12 AM

Data File: /var/chem/gcms/mj.i/J041607.b/jbfbd16.d

Date : 16-APR-2007 11:37

Client ID: BFB

Instrument: mj.i

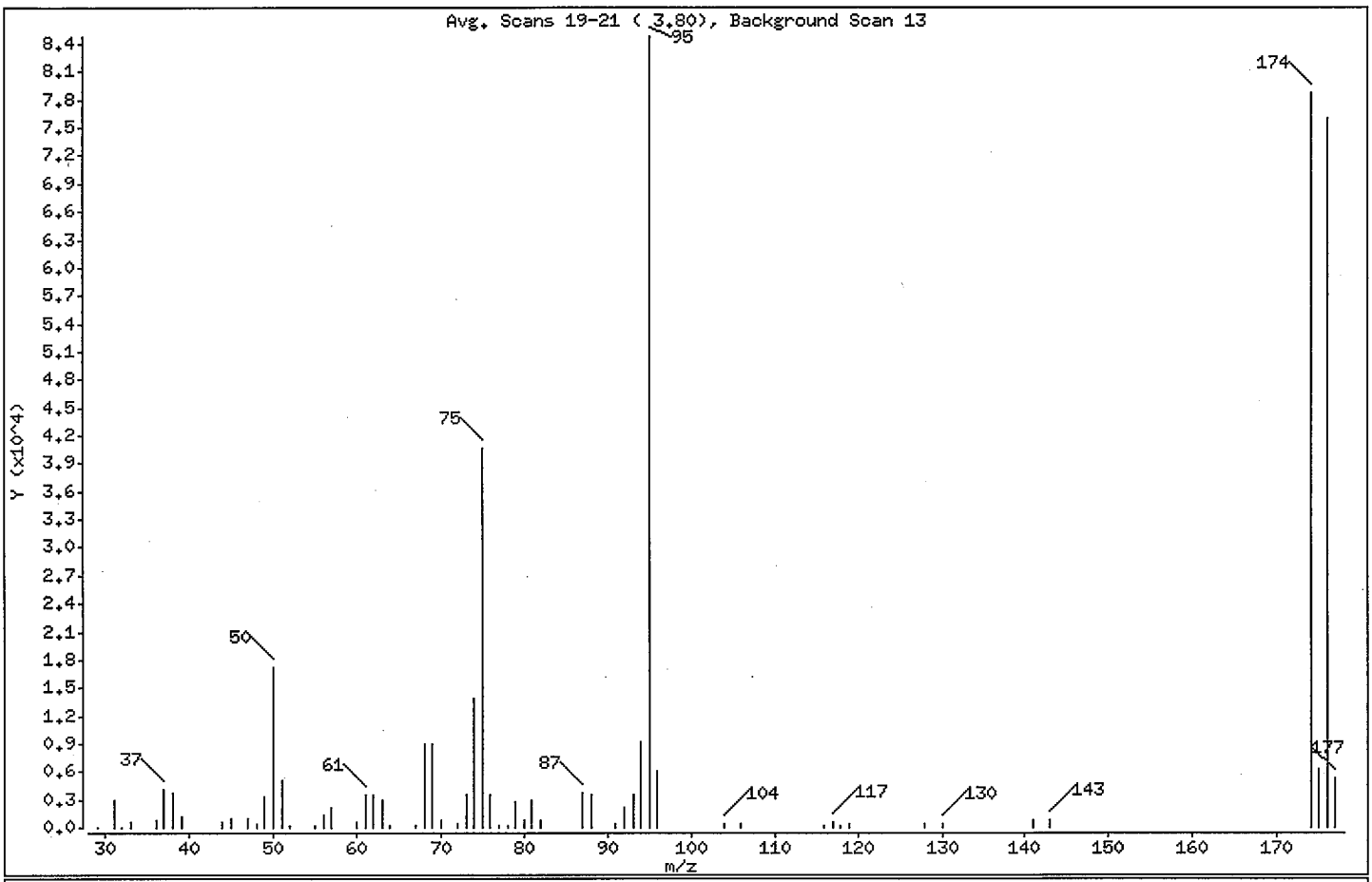
Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: Rtx-5

Column diameter: 0.32

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	20.35
75	30.00 - 60.00% of mass 95	47.93
96	5.00 - 9.00% of mass 95	7.23
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	92.85
175	5.00 - 9.00% of mass 174	7.40 (7.97)
176	95.00 - 101.00% of mass 174	89.52 (96.41)
177	5.00 - 9.00% of mass 176	6.11 (6.82)

Data File: /var/chem/gcms/mj.i/J041607.b/jbfbd16.d

Date : 16-APR-2007 11:37

Client ID: BFB

Instrument: mj.i

Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: Rtx-5

Column diameter: 0.32

Data File: jbfbd16.d
Spectrum: Avg. Scans 19-21 (3.80), Background Scan 13
Location of Maximum: 95.00
Number of points: 61

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	26	55.00	142	76.00	3493	106.00	381
31.00	2906	56.00	1283	77.00	213	116.00	215
32.00	68	57.00	2151	78.00	154	117.00	598
33.00	546	60.00	654	79.00	2763	118.00	275
36.00	814	61.00	3611	80.00	869	119.00	432
37.00	4163	62.00	3521	81.00	2916	128.00	349
38.00	3768	63.00	3015	82.00	782	130.00	376
39.00	1226	64.00	222	87.00	3633	141.00	856
44.00	612	67.00	115	88.00	3550	143.00	861
45.00	883	68.00	8969	91.00	300	174.00	78728
47.00	941	69.00	8920	92.00	2237	175.00	6274
48.00	458	70.00	833	93.00	3591	176.00	75904
49.00	3309	72.00	461	94.00	9215	177.00	5178
50.00	17256	73.00	3572	95.00	84792		
51.00	5172	74.00	13843	96.00	6133		
52.00	265	75.00	40640	104.00	391		

Data File: /var/chem/gcms/mj.i/J041607.b/jbfbd16.d

Date : 16-APR-2007 11:37

Client ID: BFB

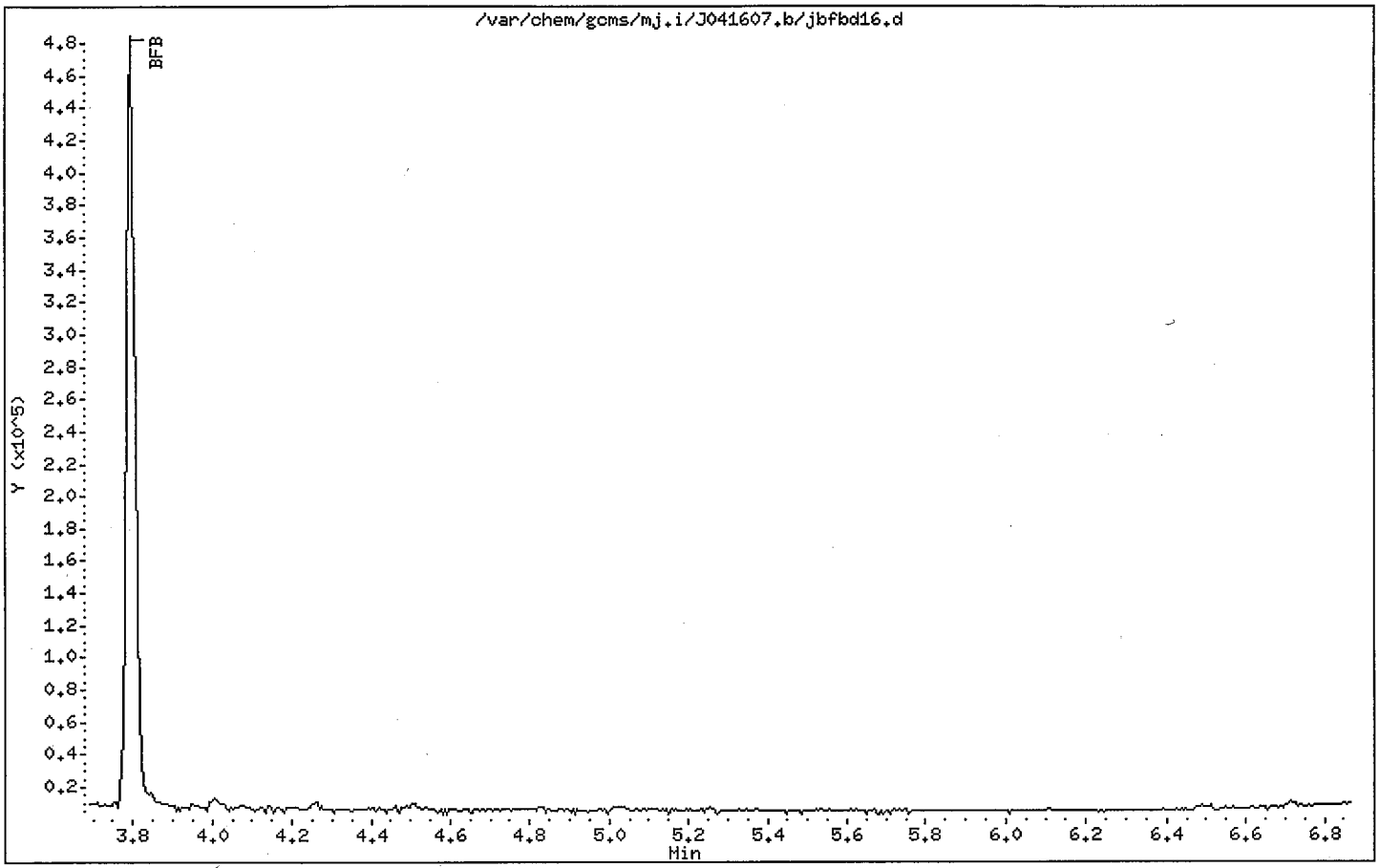
Instrument: mj.i

Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: Rtx-5

Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J041607.b/jccvd16a.d
Report Date: 16-Apr-2007 20:41

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mj.i
Lab File ID: jccvd16a.d
Analysis Type: AIR
Lab Sample ID: CCV/LCS
Method: /var/chem/gcms/mj.i/J041607.b/TO15.m

Injection Date: 16-APR-2007 12:57
Init. Cal. Date(s): 16-MAR-2007 16-MAR-2007
Init. Cal. Times: 09:31 14:36
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF4	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 4 1,2-Dichloroethane-d4	0.25453	0.25741	0.000	-1.13311	30.00000	Averaged
$ 5 Toluene-d8	0.97340	0.98704	0.000	-1.40068	30.00000	Averaged
$ 6 4-Bromofluorobenzene	0.80714	0.82727	0.000	-2.49410	30.00000	Averaged
7 Chlorodifluoromethane	2.60826	2.74775	0.000	-5.34777	30.00000	Averaged
8 Dichlorodifluoromethane	4.79738	5.20296	0.000	-8.45426	30.00000	Averaged
9 Propene	1.07406	1.12040	0.000	-4.31484	30.00000	Averaged
10 Chloromethane	0.40036	0.39844	0.000	0.47873	30.00000	Averaged
11 1,2-Dichlorotetrafluoroetha	2.46139	2.81592	0.000	-14.40335	30.00000	Averaged
12 Methanol	0.32576	0.29409	0.000	9.72034	30.00000	Averaged
13 Vinyl Chloride	1.27173	1.41449	0.000	-11.22569	30.00000	Averaged
14 n-Butane	1.79155	1.90704	0.000	-6.44667	30.00000	Averaged
15 1,3-Butadiene	0.81433	0.91047	0.000	-11.80577	30.00000	Averaged
16 Bromomethane	1.54080	1.61521	0.000	-4.82940	30.00000	Averaged
17 Chloroethane	0.66945	0.62378	0.000	6.82327	30.00000	Averaged
18 Vinyl Bromide	1.49262	1.48534	0.000	0.48778	30.00000	Averaged
19 2-methyl butane	1.57518	1.49816	0.000	4.88955	30.00000	Averaged
20 Trichlorofluoromethane	4.77550	5.08792	0.000	-6.54205	30.00000	Averaged
21 Acrolein	0.32603	0.23872	0.000	26.78142	30.00000	Averaged
22 Acetonitrile	0.42420	0.25958	0.000	38.80831	30.00000	Averaged <- NT
23 Acetone	0.36425	0.33034	0.000	9.30841	30.00000	Averaged
24 Pentane	0.37804	0.35357	0.000	6.47166	30.00000	Averaged
25 Isopropyl alcohol	1.54961	1.35821	0.000	12.35158	30.00000	Averaged
26 Ethyl Ether	1.15367	0.83965	0.000	27.21909	30.00000	Averaged
27 1,1-Dichloroethene	1.37507	1.18603	0.000	13.74758	30.00000	Averaged
28 tert-butanol	2.09049	1.93161	0.000	7.60030	30.00000	Averaged
29 Acrylonitrile	0.59143	0.43360	0.000	26.68548	30.00000	Averaged
30 1,1,2-Trichlorotrifluoroeth	2.74927	2.20067	0.000	19.95439	30.00000	Averaged
31 Methylene Chloride	1.17831	0.91457	0.000	22.38283	30.00000	Averaged
32 3-Chloropropene	1.42662	1.07323	0.000	24.77077	30.00000	Averaged
33 Carbon Disulfide	4.22345	4.26652	0.000	-1.01989	30.00000	Averaged
34 2,3-Dimethyl butane	3.30101	2.20726	0.000	33.13358	30.00000	Averaged <- NT
35 trans-1,2-Dichloroethene	1.47606	1.14979	0.000	22.10434	30.00000	Averaged
36 Methyl-t-Butyl Ether	2.74222	2.15732	0.000	21.32955	30.00000	Averaged
37 1,1-Dichloroethane	2.52311	1.92906	0.000	23.54438	30.00000	Averaged
38 Vinyl Acetate	2.06535	1.59386	0.000	22.82853	30.00000	Averaged

Data File: /var/chem/gcms/mj.i/J041607.b/jccvd16a.d
Report Date: 16-Apr-2007 20:41

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mj.i
Lab File ID: jccvd16a.d
Analysis Type: AIR
Lab Sample ID: CCV/LCS
Method: /var/chem/gcms/mj.i/J041607.b/TO15.m

Injection Date: 16-APR-2007 12:57
Init. Cal. Date(s): 16-MAR-2007 16-MAR-2007
Init. Cal. Times: 09:31 14:36
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF4	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
39 Hexane	1.02701	0.76644	0.000	25.37171	30.00000	Averaged	
40 2-Butanone	0.39707	0.32279	0.000	18.70621	30.00000	Averaged	
41 cis 1,2-Dichloroethene	1.38233	1.04981	0.000	24.05487	30.00000	Averaged	
42 Ethyl acetate	1.72137	1.41135	0.000	18.01017	30.00000	Averaged	
43 Chloroform	3.08262	2.51637	0.000	18.36934	30.00000	Averaged	
44 Tetrahydrofuran	0.91786	0.70062	0.000	23.66755	30.00000	Averaged	
45 1,1,1-Trichloroethane	3.44253	2.81376	0.000	18.26479	30.00000	Averaged	
46 1,2-Dichloroethane	0.56092	0.44238	0.000	21.13293	30.00000	Averaged	
47 Cyclohexane	0.17240	0.12655	0.000	26.59966	30.00000	Averaged	
48 1-Butanol	0.12845	0.08901	0.000	30.70205	30.00000	Averaged	<- NT
49 Benzene	0.96376	0.66972	0.000	30.50894	30.00000	Averaged	<- ✓
50 Carbon Tetrachloride	3.60831	2.97454	0.000	17.56412	30.00000	Averaged	
51 2,2,4-trimethylpentane	1.58977	1.12196	0.000	29.42619	30.00000	Averaged	
52 Heptane	0.56974	0.41780	0.000	26.66821	30.00000	Averaged	
53 1,2-Dichloropropane	0.29370	0.22246	0.000	24.25576	30.00000	Averaged	
54 Trichloroethene	0.56412	0.44265	0.000	21.53296	30.00000	Averaged	
55 Dibromomethane	0.50067	0.38043	0.000	24.01736	30.00000	Averaged	
56 Bromodichloromethane	0.84188	0.71010	0.000	15.65355	30.00000	Averaged	
57 1,4-dioxane	0.14623	0.13167	0.000	9.96069	30.00000	Averaged	
58 Methyl Methacrylate	0.29860	0.23903	0.000	19.94954	30.00000	Averaged	
59 4-Methyl-2-pentanone	0.45381	0.39358	0.000	13.27136	30.00000	Averaged	
60 cis-1,3-Dichloropropene	0.52311	0.40921	0.000	21.77449	30.00000	Averaged	
61 trans-1,3-Dichloropropene	0.60809	0.47050	0.000	22.62624	30.00000	Averaged	
62 Toluene	1.04138	0.76679	0.000	26.36722	30.00000	Averaged	
63 1,1,2-Trichloroethane	0.37628	0.30096	0.000	20.01784	30.00000	Averaged	
64 2-Hexanone	0.23474	0.21027	0.000	10.42402	30.00000	Averaged	
65 Octane	0.37938	0.31237	0.000	17.66404	30.00000	Averaged	
66 Dibromochloromethane	0.81774	0.73859	0.000	9.67914	30.00000	Averaged	
67 1,2-Dibromoethane	0.64032	0.52344	0.000	18.25361	30.00000	Averaged	
68 Tetrachloroethene	0.49065	0.39188	0.000	20.13140	30.00000	Averaged	
69 Chlorobenzene	0.85041	0.67325	0.000	20.83256	30.00000	Averaged	
70 Ethylbenzene	1.23311	0.91179	0.000	26.05715	30.00000	Averaged	
71 m&p-Xylene	0.95411	0.71578	0.000	24.97954	30.00000	Averaged	
72 Nonane	0.65186	0.55661	0.000	14.61157	30.00000	Averaged	
73 Bromoform	0.76308	0.69208	0.000	9.30358	30.00000	Averaged	

Data File: /var/chem/gcms/mj.i/J041607.b/jccvd16a.d
Report Date: 16-Apr-2007 20:41

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mj.i
Lab File ID: jccvd16a.d
Analysis Type: AIR
Lab Sample ID: CCV/LCS
Method: /var/chem/gcms/mj.i/J041607.b/TO15.m

Injection Date: 16-APR-2007 12:57
Init. Cal. Date(s): 16-MAR-2007 16-MAR-2007
Init. Cal. Times: 09:31 14:36
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF4	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
74 Styrene	0.62475	0.50321	0.000	19.45414	30.00000	Averaged	
75 o-Xylene	1.03713	0.76363	0.000	26.37107	30.00000	Averaged	
76 1,1,2,2-Tetrachloroethane	0.73133	0.57229	0.000	21.74686	30.00000	Averaged	
77 1,2,3-Trichloropropane	0.20012	0.16212	0.000	18.99088	30.00000	Averaged	
78 Cumene	1.39545	1.01978	0.000	26.92126	30.00000	Averaged	
79 a-Pinene	1.20219	0.88233	0.000	26.60651	30.00000	Averaged	
80 n-Propylbenzene	0.34698	0.26884	0.000	22.52152	30.00000	Averaged	
81 Camphene	0.72827	0.57603	0.000	20.90465	30.00000	Averaged	
82 2-chlorotoluene	0.36012	0.28450	0.000	21.00041	30.00000	Averaged	
83 4-Ethyltoluene	1.33557	1.02442	0.000	23.29702	30.00000	Averaged	
84 1,3,5-Trimethylbenzene	0.49335	0.38945	0.000	21.06101	30.00000	Averaged	
85 b-Pinene	0.93044	0.48836	0.000	47.51283	30.00000	Averaged	<- NT
86 Alpha-Methylstyrene	0.49475	0.37894	0.000	23.40785	30.00000	Averaged	
87 Decane	0.71169	0.58228	0.000	18.18332	30.00000	Averaged	
88 1,2,4-Trimethylbenzene	1.03776	0.83273	0.000	19.75753	30.00000	Averaged	
89 tert-butylbenzene	1.15915	0.88173	0.000	23.93281	30.00000	Averaged	
90 sec-butylbenzene	1.55765	1.19538	0.000	23.25731	30.00000	Averaged	
91 1,3-Dichlorobenzene	0.74927	0.59835	0.000	20.14251	30.00000	Averaged	
92 Benzyl Chloride	0.94852	0.78209	0.000	17.54617	30.00000	Averaged	
93 1,4-Dichlorobenzene	0.73040	0.57595	0.000	21.14590	30.00000	Averaged	
94 p-Cymene	1.27855	0.92817	0.000	27.40420	30.00000	Averaged	
95 d-Limonene	0.50011	0.27944	0.000	44.12373	30.00000	Averaged	<- NT
96 1,2-Dichlorobenzene	0.70418	0.53260	0.000	24.36552	30.00000	Averaged	
97 n-butylbenzene	1.15718	0.93447	0.000	19.24634	30.00000	Averaged	
98 Undecane	0.71536	0.50661	0.000	29.18116	30.00000	Averaged	
99 4-tert-Butyltoluene	1.17652	0.79814	0.000	32.16090	30.00000	Averaged	<-
100 Camphor	0.37849	0.09833	0.000	74.01994	30.00000	Averaged	<- 7NT
101 Dodecane	0.62501	0.40716	0.000	34.85586	30.00000	Averaged	<-
102 1,2,4-Trichlorobenzene	0.42479	0.29987	0.000	29.40793	30.00000	Averaged	
103 Napthalene	0.80005	0.56002	0.000	30.00145	30.00000	Averaged	<- OK
104 Hexachlorobutadiene	0.62159	0.38033	0.000	38.81432	30.00000	Averaged	<- NT
105 1,2,3-trichlorobenzene	0.40710	0.26248	0.000	35.52562	30.00000	Averaged	<- NT

Data File: /var/chem/gcms/mj.i/J041607.b/jccvd16a.d
Report Date: 16-Apr-2007 20:41

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041607.b/jccvd16a.d
Lab Smp Id: CCV/LCS Client Smp ID: STD 4
Inj Date : 16-APR-2007 12:57
Operator : 7126 Inst ID: mj.i
Smp Info : CCV/LCS,,2,5,,STD 4
Misc Info : J041507,TO15,,,,40 ML CX1510
Comment :
Method : /var/chem/gcms/mj.i/J041607.b/TO15.m
Meth Date : 16-Apr-2007 20:41 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
* 1 Bromochloromethane	128	8.899	8.899	(1.000)	185541	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.083	11.083	(1.000)	738195	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.806	15.806	(1.000)	652787	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.905	9.905	(0.894)	190021	4.00000	4.045
$ 5 Toluene-d8	98	13.724	13.724	(0.868)	644324	4.00000	4.056
$ 6 4-Bromofluorobenzene	95	17.441	17.441	(1.103)	540033	4.00000	4.100
7 Chlorodifluoromethane	51	3.713	3.713	(0.417)	509820	4.00000	4.214
8 Dichlorodifluoromethane	85	3.778	3.778	(0.424)	965363	4.00000	4.338
9 Propene	41	3.724	3.724	(0.418)	207880	4.00000	4.172
10 Chloromethane	52	3.960	3.960	(0.445)	73927	4.00000	3.981
11 1,2-Dichlorotetrafluoroethane	135	3.960	3.960	(0.445)	522468	4.00000	4.576
12 Methanol	31	4.100	4.100	(0.461)	54566	4.00000	3.611
13 Vinyl Chloride	62	4.133	4.133	(0.464)	262446	4.00000	4.449
14 n-Butane	43	4.219	4.219	(0.474)	353835	4.00000	4.258
15 1,3-Butadiene	54	4.219	4.219	(0.474)	168930	4.00000	4.472

Data File: /var/chem/gcms/mj.i/J041607.b/jccvd16a.d
Report Date: 16-Apr-2007 20:41

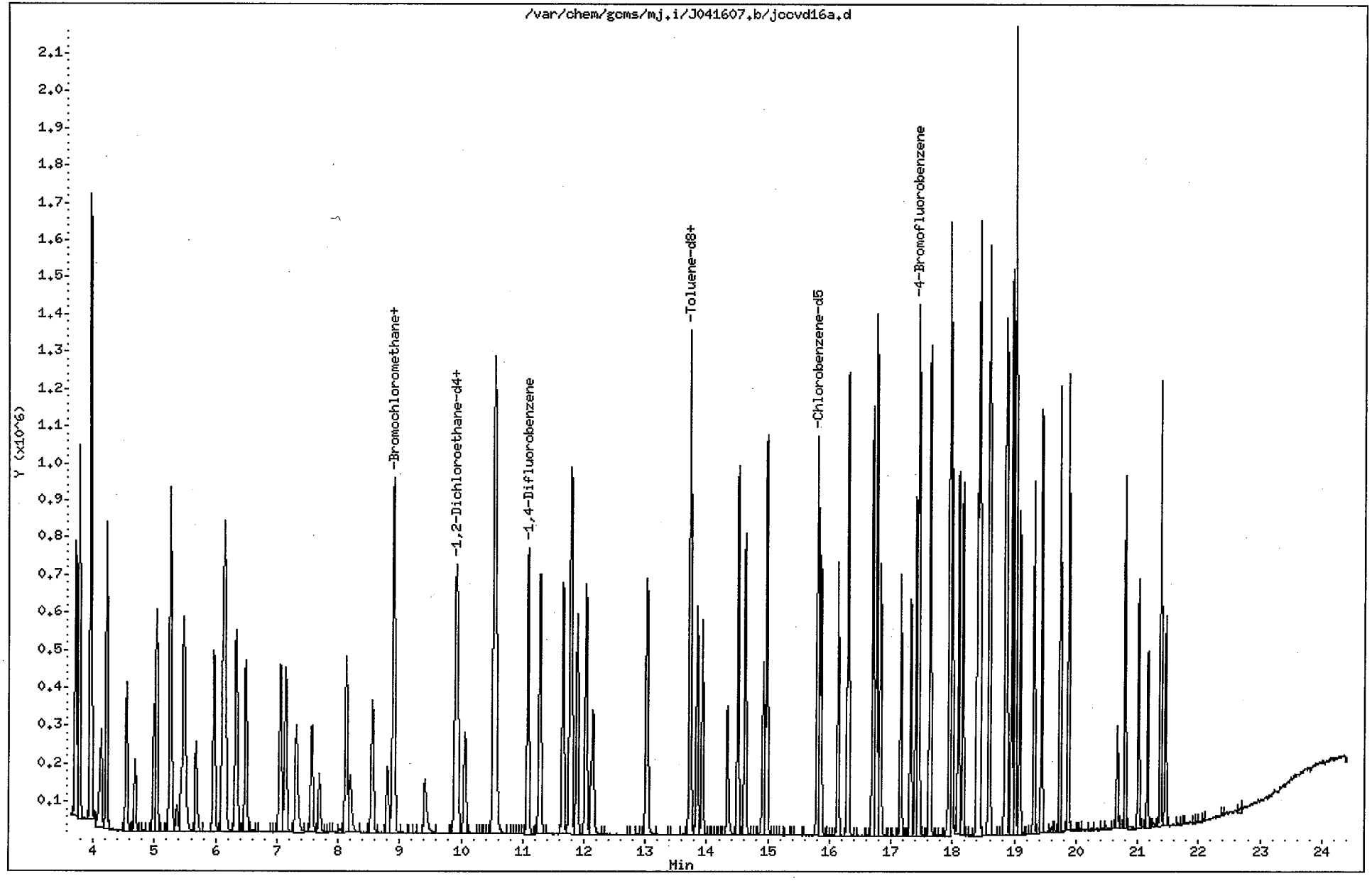
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
16 Bromomethane	94	4.547	4.547	(0.511)	299688	4.00000	4.193
17 Chloroethane	64	4.687	4.687	(0.527)	115736	4.00000	3.727
18 Vinyl Bromide	106	4.988	4.988	(0.561)	275592	4.00000	3.980
19 2-methyl butane	43	5.036	5.036	(0.566)	277970	4.00000	3.804
20 Trichlorofluoromethane	101	5.262	5.262	(0.591)	944017	4.00000	4.262
21 Acrolein	56	5.295	5.295	(0.595)	44292	4.00000	2.929
22 Acetonitrile	40	5.364	5.364	(0.603)	48162	4.00000	2.448
23 Acetone	58	5.434	5.434	(0.611)	61292	4.00000	3.628
24 Pentane	57	5.477	5.477	(0.616)	65602	4.00000	3.741
25 Isopropyl alcohol	45	5.504	5.504	(0.619)	252003	4.00000	3.506
26 Ethyl Ether	31	5.677	5.677	(0.638)	155790	4.00000	2.911
27 1,1-Dichloroethene	96	5.972	5.972	(0.671)	220058	4.00000	3.450
28 tert-butanol	59	6.107	6.107	(0.686)	358392	4.00000	3.696
29 Acrylonitrile	53	6.101	6.101	(0.686)	80451	4.00000	2.932
30 1,1,2-Trichlorotrifluoroethane	101	6.145	6.145	(0.690)	408314	4.00000	3.202
31 Methylene Chloride	84	6.327	6.327	(0.711)	169691	4.00000	3.105
32 3-Chloropropene	39	6.344	6.344	(0.713)	199129	4.00000	3.009
33 Carbon Disulfide	76	6.494	6.494	(0.730)	791615	4.00000	4.041
34 2,3-Dimethyl butane	43	7.059	7.059	(0.793)	409538	4.00000	2.675
35 trans-1,2-Dichloroethene	96	7.140	7.140	(0.802)	213333	4.00000	3.116
36 Methyl-t-Butyl Ether	73	7.312	7.312	(0.822)	400271	4.00000	3.147
37 1,1-Dichloroethane	63	7.570	7.570	(0.851)	357919	4.00000	3.058
38 Vinyl Acetate	43	7.694	7.694	(0.865)	295727	4.00000	3.087
39 Hexane	56	8.130	8.130	(0.914)	142206	4.00000	2.985
40 2-Butanone	72	8.189	8.189	(0.920)	59891	4.00000	3.252
41 cis 1,2-Dichloroethene	96	8.555	8.555	(0.961)	194783	4.00000	3.038
42 Ethyl acetate	43	8.797	8.797	(0.988)	261863	4.00000	3.280
43 Chloroform	83	8.904	8.904	(1.001)	466889	4.00000	3.265
44 Tetrahydrofuran	42	9.410	9.410	(1.057)	129994	4.00000	3.053
45 1,1,1-Trichloroethane	97	9.937	9.937	(1.117)	522068	4.00000	3.269
46 1,2-Dichloroethane	62	10.055	10.055	(0.907)	326566	4.00000	3.155
47 Cyclohexane	69	10.523	10.523	(0.950)	93415	4.00000	2.936
48 1-Butanol	31	10.566	10.566	(0.953)	65708	4.00000	2.772
49 Benzene	78	10.534	10.534	(0.950)	494387	4.00000	2.780
50 Carbon Tetrachloride	117	10.556	10.556	(1.186)	551900	4.00000	3.297
51 2,2,4-trimethylpentane	57	11.277	11.277	(1.017)	828228	4.00000	2.823
52 Heptane	43	11.653	11.653	(1.051)	308417	4.00000	2.933
53 1,2-Dichloropropane	63	11.766	11.766	(1.062)	164218	4.00000	3.030
54 Trichloroethene	130	11.793	11.793	(1.064)	326760	4.00000	3.139
55 Dibromomethane	93	11.884	11.884	(1.072)	280828	4.00000	3.039
56 Bromodichloromethane	83	12.030	12.030	(1.085)	524191	4.00000	3.374
57 1,4-dioxane	88	12.105	12.105	(1.092)	97195	4.00000	3.602
58 Methyl Methacrylate	41	12.143	12.143	(1.096)	176452	4.00000	3.202
59 4-Methyl-2-pentanone	43	13.009	13.009	(1.174)	290538	4.00000	3.469
60 cis-1,3-Dichloropropene	75	13.025	13.025	(1.175)	302076	4.00000	3.129
61 trans-1,3-Dichloropropene	75	13.724	13.724	(0.868)	307136	4.00000	3.095
62 Toluene	91	13.837	13.837	(0.875)	500553	4.00000	2.945

Data File: /var/chem/gcms/mj.i/J041607.b/jccvd16a.d
Report Date: 16-Apr-2007 20:41

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
63 1,1,2-Trichloroethane	97	13.923	13.923	(0.881)	196463	4.00000	3.199
64 2-Hexanone	58	14.337	14.337	(0.907)	137263	4.00000	3.583
65 Octane	85	14.510	14.510	(0.918)	203908	4.00000	3.293
66 Dibromochloromethane	129	14.623	14.623	(0.925)	482143	4.00000	3.613
67 1,2-Dibromoethane	107	14.918	14.918	(0.944)	341693	4.00000	3.270
68 Tetrachloroethene	129	14.978	14.978	(0.948)	255811	4.00000	3.195
69 Chlorobenzene	112	15.854	15.854	(1.003)	439487	4.00000	3.167
70 Ethylbenzene	91	16.140	16.140	(1.021)	595207	4.00000	2.958
71 m&p-Xylene	91	16.301	16.301	(1.031)	934501	8.00000	6.002
72 Nonane	57	16.699	16.699	(1.056)	363349	4.00000	3.416
73 Bromoform	173	16.758	16.758	(1.060)	451783	4.00000	3.628
74 Styrene	104	16.764	16.764	(1.061)	328491	4.00000	3.222
75 o-Xylene	91	16.823	16.823	(1.064)	498488	4.00000	2.945
76 1,1,2,2-Tetrachloroethane	83	17.156	17.156	(1.085)	373583	4.00000	3.130
77 1,2,3-Trichloropropane	110	17.318	17.318	(1.096)	105827	4.00000	3.240
78 Cumene	105	17.404	17.404	(1.101)	665696	4.00000	2.923
79 a-Pinene	93	17.630	17.630	(1.115)	575975	4.00000	2.936
80 n-Propylbenzene	120	17.942	17.942	(1.135)	175492	4.00000	3.099
81 Camphene	93	17.958	17.958	(1.136)	376022	4.00000	3.164
82 2-chlorotoluene	126	17.990	17.990	(1.138)	185716	4.00000	3.160
83 4-Ethyltoluene	105	18.092	18.092	(1.145)	668728	4.00000	3.068
84 1,3,5-Trimethylbenzene	120	18.162	18.162	(1.149)	254225	4.00000	3.158
85 b-Pinene	93	18.420	18.420	(1.165)	318797	4.00000	2.099
86 Alpha-Methylstyrene	118	18.394	18.394	(1.164)	247367	4.00000	3.064
87 Decane	57	18.437	18.437	(1.166)	380107	4.00000	3.273
88 1,2,4-Trimethylbenzene	105	18.598	18.598	(1.177)	543593	4.00000	3.210
89 tert-butylbenzene	119	18.582	18.582	(1.176)	575582	4.00000	3.043
90 sec-butylbenzene	105	18.851	18.851	(1.193)	780331	4.00000	3.070
91 1,3-Dichlorobenzene	146	18.872	18.872	(1.194)	390593	4.00000	3.194
92 Benzyl Chloride	91	18.948	18.948	(1.199)	510537	4.00000	3.298
93 1,4-Dichlorobenzene	146	18.958	18.958	(1.199)	375974	4.00000	3.154
94 p-Cymene	119	19.012	19.012	(1.203)	1211798	8.00000	5.808
95 d-Limonene	68	19.082	19.082	(1.207)	182416	4.00000	2.235
96 1,2-Dichlorobenzene	146	19.313	19.313	(1.222)	347674	4.00000	3.025
97 n-butylbenzene	91	19.437	19.437	(1.230)	610007	4.00000	3.230
98 Undecane	57	19.738	19.738	(1.249)	330708	4.00000	2.833
99 4-tert-Butyltoluene	133	19.873	19.873	(1.257)	521014	4.00000	2.714
100 Camphor	95	20.669	20.669	(1.308)	64190	4.00000	1.039
101 Dodecane	57	20.798	20.798	(1.316)	265789	4.00000	2.606
102 1,2,4-Trichlorobenzene	180	21.013	21.013	(1.329)	195752	4.00000	2.824
103 Napthalene	128	21.164	21.164	(1.339)	365576	4.00000	2.800
104 Hexachlorobutadiene	225	21.374	21.374	(1.352)	248272	4.00000	2.447
105 1,2,3-trichlorobenzene	180	21.454	21.454	(1.357)	171342	4.00000	2.579

Data File: /var/chem/gcms/mj.i/J041607.b/jccvd16a.d
Date : 16-APR-2007 12:57
Client ID: STD 4
Sample Info: CCV/LCS,,2,5,,STD 4
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mj.i
Operator: 7126
Column diameter: 0.32



---------- Leak Check Report ----------

4/16/2007 6:03:08 PM
Leak Check for C:\Smart\J041607.SEQ
Report File: C:\Smart\J041607.LCR
Leak Check Method: Evacuation
Pressurize/Evacuate time(sec) 15
Equilibration time(sec) 15
Maintanance time(sec) 15

Sample Inlet	Auto1	Auto2	Auto3	Start	End	Rate(psi/min)
1	8	---	---	1.2	1.3	0.40
1	9	---	---	0.9	0.9	0.00
1	10	---	---	0.8	0.9	0.40
1	11	---	---	0.7	0.8	0.40

---------- Leak Check Report ----------

4/16/2007 8:23:15 PM
Leak Check for C:\Smart\J041607.SEQ
Report File: C:\Smart\J041607.LCR
Leak Check Method: Evacuation
Pressurize/Evacuate time(sec) 15
Equilibration time(sec) 15
Maintanance time(sec) 15

Sample Inlet	Auto1	Auto2	Auto3	Start	End	Rate(psi/min)
1	1	---	---	1.2	1.3	0.40
1	2	---	---	0.9	0.9	0.00
1	~~3~~	~~---~~	~~---~~	~~6.7~~	~~10.2~~	~~14.00~~
1	4	---	---	0.9	1.0	0.40
1	5	---	---	0.9	1.1	0.80
1	6	---	---	0.7	0.8	0.40
1	7	---	---	0.7	0.8	0.40
1	8	---	---	0.7	0.8	0.40
1	9	---	---	0.7	0.7	0.00
1	10	---	---	0.7	0.8	0.40
1	11	---	---	0.7	0.8	0.40
1	12	---	---	0.7	0.7	0.00
1	14	---	---	0.8	0.9	0.40
1	13	---	---	0.8	0.9	0.40

retested- ok vm 4-16-07

---------- Leak Check Report ----------

4/16/2007 8:24:59 PM
Leak Check for C:\Smart\J041607.SEQ
Report File: C:\Smart\J041607.LCR
Leak Check Method: Evacuation
Pressurize/Evacuate time(sec) 15
Equilibration time(sec) 15
Maintanance time(sec) 15

Sample Inlet	Auto1	Auto2	Auto3	Start	End	Rate(psi/min)
1	3	---	---	1.1	1.2	0.40

STL Knoxville GC/MS Air Continuing Calibration Review / Narrative Checklist
Method: TO-14 and TO-15 - KNOX-MS-0001, Rev 9

Analysis Date:	4-17-07	CCAL Batch/ Scan Name:	J041707	Instrument:	MJ	ICAL Batch/ Scan Name:	J031607I	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 24 hr of BFB?		✓			✓
3. Have the Entech position no. & vol. been verified with run log & sample vol. corrected if actual amount differs >5%?		✓			✓
4. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
5. Was the CCAL compared to the correct ICAL?		✓			✓
6. Is the %D ≤ 30% for all target analytes? Up to 4 analytes allowed over 30% but ≤ 40% D (Narrative req'd.).		✓		acetonitrile, 1,2,4-trichlorobenzene, hexachlorobutadiene	✓
7. Have all peaks been auto identified? If not, list:		✓			✓
8. 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	MJ
9. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				MJ
10. Is the first IS documented correctly on the log?		✓			✓
11. Is the ICAL date & time on the CCAL correct?		✓			✓
12. Elution order checked on isomeric pairs?					
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane		✓			✓
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane		✓			✓
• vinyl acetate / hexane		✓			✓
• cis- and trans- isomers		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• 4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
13. Did the LCS meet criteria (nonpolar target analytes 70-130%, with up to 2 nonpolars 60-140%; polar target analytes 60-140%, with up to 2 polars 45-155%)?		✓		☐ [lcs6] LCS analyte(s) flagged as being outside control limits, but SOP allows 2 polars and 2 nonpolars outside 70-130%R.	✓
14. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				MJ
15. Does the CCAL folder contain **complete** data in the following order: data review checklist, a **complete** runlog, Entech report, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, Quan report, chromatogram, manual integrations and leak check report.		✓			✓

Analyst: MM	Date: 4-18-07	2nd Level Reviewer : [illegible]	Date: 04/18/07
Comments:		Comments:	

STL Knoxville
TO-14/15 RUN LOG

GCMS Analysis: TO-14/15 Inst: MJ

Analyst: [illegible] Qtims Batch: 7108045 / 7108049 (For H7D060176) / 7108057 (For H7D110232)

Date: 4/17/07 ICAL Batch: J031607I Target Batch: J041707 IS #1 Area: 174498

Surr/IS ID & Vol.: 10mL V176 System Date/Time ok (y/n): y

Preventive Maintenance Performed ☑ Daily

Time	Use	Lot No.	File ID	Can #	Pos	Vol* (mL)	Can DF	Comments
0935	✓	tune	JBFBD17	–	16	100	1	
1004	✓	Ccv/LCS	JCCVD17	CX1492	15	40		
1137	N	Blk	Blank	–	16	200		
1216	✓	↓	JBLKD17	–	16	200		
1300	✓	H7D170103	JT13C	11155	13	200		bkgrn.
1337	✓	↓	↓ 3F	6646	14	200		
1448	✓	10+chk	6099	6370	16	500		
1455	✓	H7D130210	JTWA6	6586	1	200		
1534	✓		D8	S1529	2			
1612	✓		D5	6595	3			
1813	✓		EA	1123	4			
1929	~~NU~~ ✓	H7D110232	JTPHX ~~EAD~~ 4/17/07	6679	5	500		-1AD
2005	✓		JTPH1	0040	6	50		
2041	✓		H5	1425	7	50		
2124	✓		H7	11345	8	500		
2201	✓		H9	12836	9	250		
2238	✓	H7D130248	JTWNQ	12259	10	200		sussapch. -1AC
2316	✓		N5	3396	11			
2352	✓		N6	1367	12			
1850	dup	H7D130210	JTWEAD	1123	4	200		
0030	dup	H7D130248	JTWN6D	1367	12	200		
0107	✓	H7D170105	JT13H	bag	13	20		toluene;
0143	✓	↓	↓ 3K	↓	14	20		
0220	✓	H7D060176	JTGGG	6657	15	200		erm.sub
0300	✓		GGR	↓	3125			
0343	N		G9	1485	2B1			toluene "E"
0426	✓		HC	1487	2B2			
0508	✓	H7D170106	JT13W	12730	3	50	5967.6	polysw.
0736	✓	H7D060176	JTGG9R	1485	1	100	1	
0814	✓	Blk chk	6100	02306	16	500	1	

* Entech programmed Volume. If the Entech report amount differs from the programmed amount by >5%, the Entech report amount is used for calulations.

Analyst: KM Date: 4-18-07

KM 4-18-07

070417

STL-Knoxville
TO-14 Autosampler Log

Sample	Position/Volume	Date	Time
BFB	16 - 102 mL	4/17/2007	9:35:11 AM
CCV	15 - 41 mL	4/17/2007	10:04:03 AM
BLK	16 - 201 mL	4/17/2007	11:37:44 AM
BLK	16 - 201 mL	4/17/2007	12:16:51 PM
JT13C	13 - 201 mL	4/17/2007	1:00:04 PM
JT13F	14 - 200 mL	4/17/2007	1:37:47 PM
6099	16 - 502 mL	4/17/2007	2:18:01 PM
JTWA6	1 - 202 mL	4/17/2007	2:55:55 PM
JTWD0	2 - 202 mL	4/17/2007	3:34:49 PM
JTWD5	3 - 200 mL	4/17/2007	4:12:29 PM
JTWEA	4 - 200 mL	4/17/2007	6:13:19 PM
JTWEA	4 - 200 mL	4/17/2007	6:50:17 PM
JTPHX	5 - 501 mL	4/17/2007	7:29:32 PM
JTPH1	6 - 50 mL	4/17/2007	8:05:24 PM
JTPH5	7 - 50 mL	4/17/2007	8:41:57 PM
JTPH7	8 - 501 mL	4/17/2007	9:24:50 PM
JTPH9	9 - 252 mL	4/17/2007	10:01:25 PM
JTWNQ	10 - 201 mL	4/17/2007	10:38:39 PM
JTWN5	11 - 200 mL	4/17/2007	11:15:59 PM
JTWN6	12 - 200 mL	4/17/2007	11:52:33 PM
JTWN6	12 - 200 mL	4/18/2007	12:30:43 AM
JT13H	13 - 21 mL	4/18/2007	1:07:45 AM
JT13K	14 - 21 mL	4/18/2007	1:43:43 AM
JTGGG	15 - 200 mL	4/18/2007	2:20:33 AM
JTGGG	15 - 202 mL	4/18/2007	3:00:46 AM
JTGG9	1 - 200 mL	4/18/2007	3:43:37 AM
JTGHC	2 - 200 mL	4/18/2007	4:26:34 AM
JT13W	3 - 51 mL	4/18/2007	5:08:32 AM
BLK	16 - 51 mL	4/18/2007	6:59:06 AM
JTGG9R	1 - 100 mL	4/18/2007	7:36:16 AM
6100	16 - 501 mL	4/18/2007	8:14:40 AM

Data File: /var/chem/gcms/mj.i/J041707.b/jbfbd17.d

Date : 17-APR-2007 09:35

Client ID: BFB

Instrument: mj.i

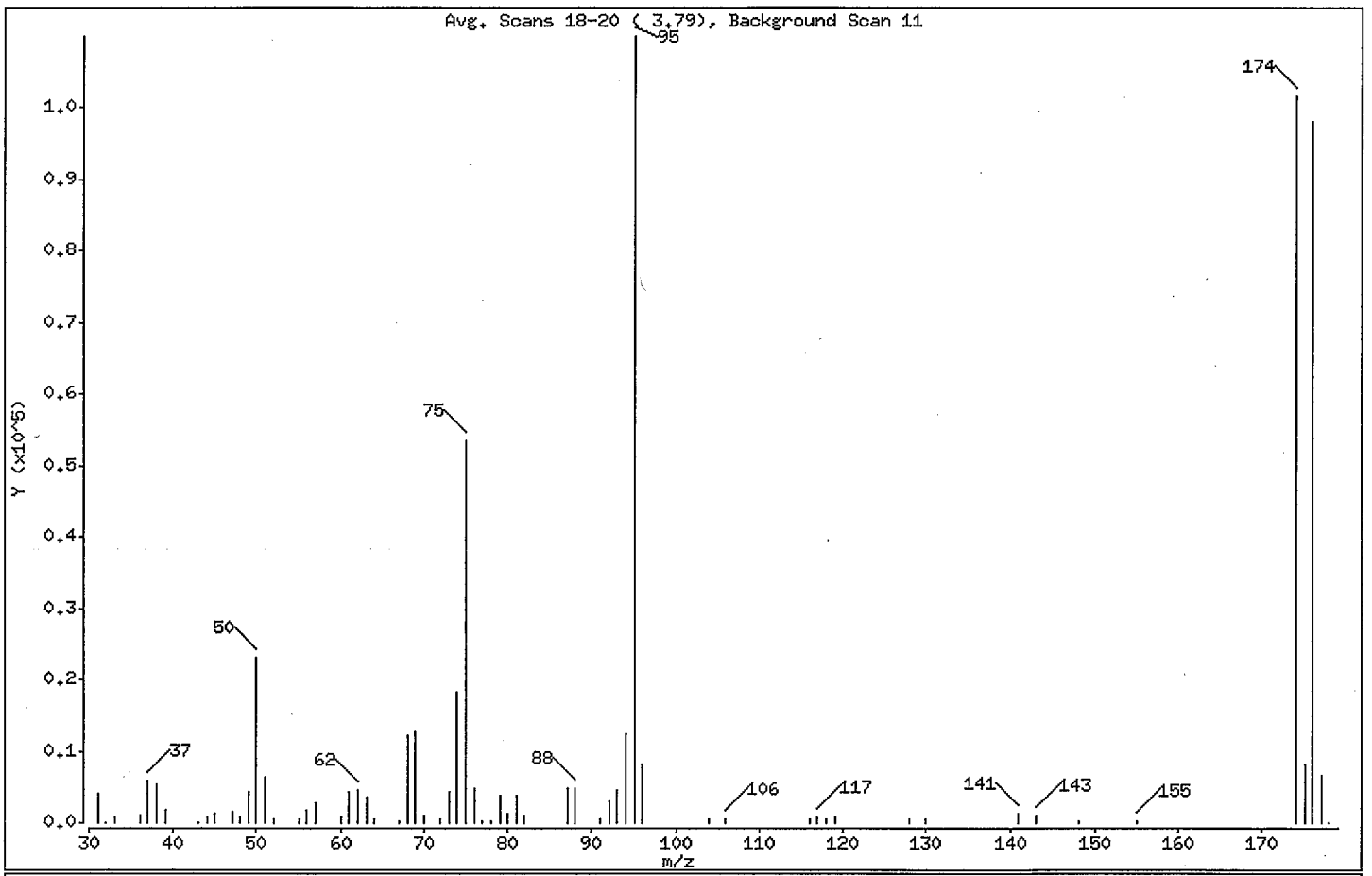
Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: Rtx-5

Column diameter: 0.32

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	21.00
75	30.00 - 60.00% of mass 95	48.51
96	5.00 - 9.00% of mass 95	7.27
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	92.33
175	5.00 - 9.00% of mass 174	7.48 (8.10)
176	95.00 - 101.00% of mass 174	89.26 (96.68)
177	5.00 - 9.00% of mass 176	6.05 (6.78)

Data File: /var/chem/gcms/mj.i/J041707.b/jbfbd17.d

Date : 17-APR-2007 09:35

Client ID: BFB

Instrument: mj.i

Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: Rtx-5

Column diameter: 0.32

Data File: jbfbd17.d
Spectrum: Avg. Scans 18-20 (3.79), Background Scan 11
Location of Maximum: 95.00
Number of points: 64

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	4084	56.00	1761	78.00	213	118.00	415
32.00	88	57.00	2770	79.00	3917	119.00	664
33.00	802	60.00	867	80.00	1246	128.00	430
36.00	1009	61.00	4390	81.00	3829	130.00	446
37.00	5853	62.00	4654	82.00	1122	141.00	1151
38.00	5222	63.00	3580	87.00	4929	143.00	1039
39.00	1681	64.00	404	88.00	4932	148.00	228
43.00	103	67.00	282	91.00	510	155.00	216
44.00	866	68.00	12117	92.00	2991	174.00	101544
45.00	1197	69.00	12645	93.00	4538	175.00	8222
47.00	1417	70.00	970	94.00	12510	176.00	98168
48.00	692	72.00	541	95.00	109976	177.00	6659
49.00	4353	73.00	4399	96.00	7992	178.00	111
50.00	23088	74.00	18120	104.00	582		
51.00	6450	75.00	53344	106.00	532		
52.00	422	76.00	4738	116.00	409		
55.00	453	77.00	244	117.00	712		

Data File: /var/chem/gcms/mj.i/J041707.b/jbfbd17.d

Date : 17-APR-2007 09:35

Client ID: BFB

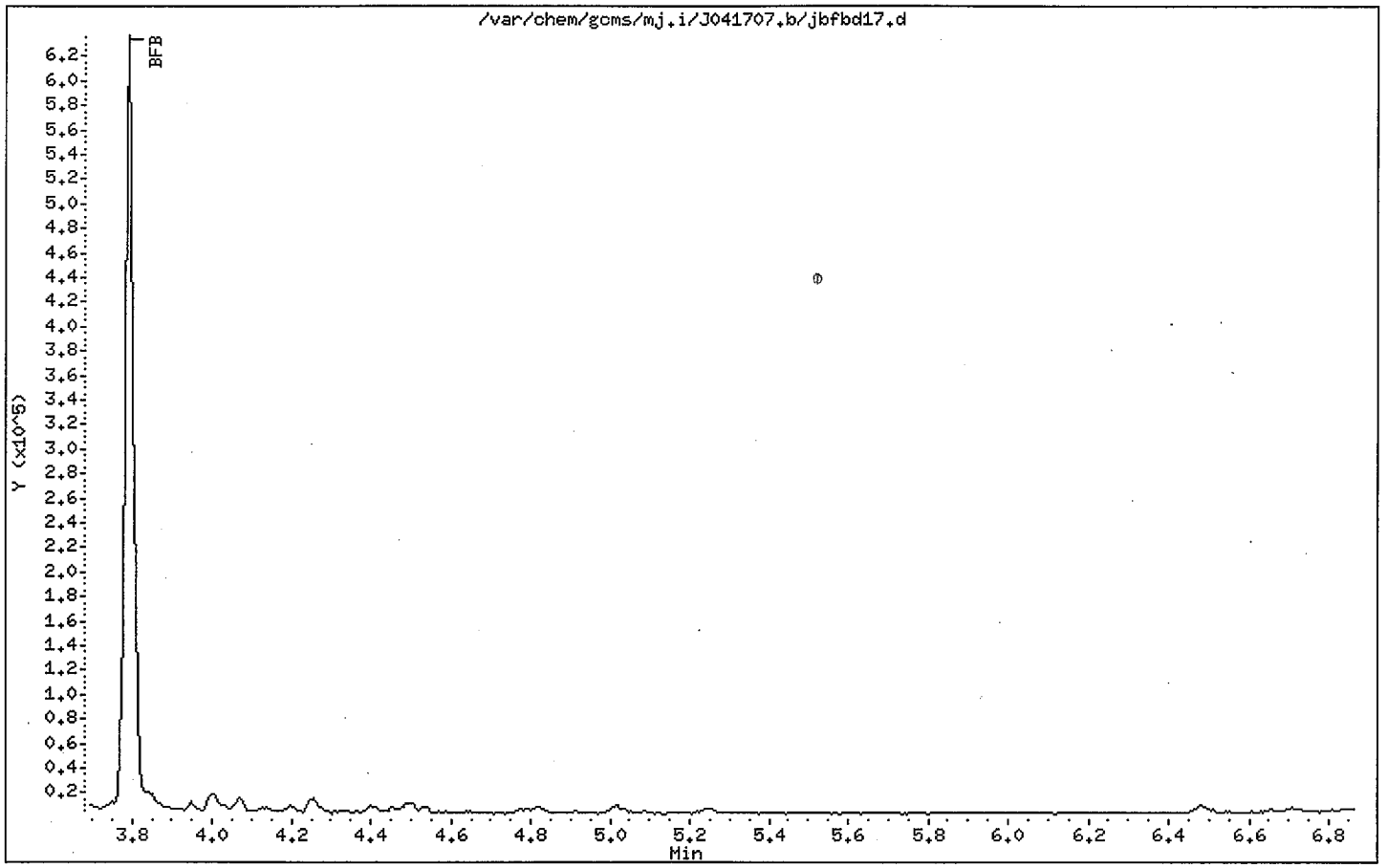
Instrument: mj.i

Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: Rtx-5

Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J041707.b/jccvd17.d
Report Date: 17-Apr-2007 11:07

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mj.i
Lab File ID: jccvd17.d
Analysis Type: AIR
Lab Sample ID: CCV/LCS
Method: /var/chem/gcms/mj.i/J041707.b/TO15.m

Injection Date: 17-APR-2007 10:04
Init. Cal. Date(s): 16-MAR-2007 16-MAR-2007
Init. Cal. Times: 09:31 14:36
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF4	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 1,2-Dichloroethane-d4	0.25453	0.25665	0.000	-0.83426	30.00000	Averaged	
$ 5 Toluene-d8	0.97340	0.97456	0.000	-0.11949	30.00000	Averaged	
$ 6 4-Bromofluorobenzene	0.80714	0.82328	0.000	-1.99962	30.00000	Averaged	
7 Chlorodifluoromethane	2.60826	3.02214	0.000	-15.86782	30.00000	Averaged	
8 Dichlorodifluoromethane	4.79738	5.68932	0.000	-18.59226	30.00000	Averaged	
9 Propene	1.07406	1.23531	0.000	-15.01371	30.00000	Averaged	
10 Chloromethane	0.40036	0.42852	0.000	-7.03455	30.00000	Averaged	
11 1,2-Dichlorotetrafluoroetha	2.46139	3.03220	0.000	-23.19049	30.00000	Averaged	
12 Methanol	0.32576	0.29430	0.000	9.65729	30.00000	Averaged	
13 Vinyl Chloride	1.27173	1.53216	0.000	-20.47840	30.00000	Averaged	
14 n-Butane	1.79155	2.06181	0.000	-15.08501	30.00000	Averaged	
15 1,3-Butadiene	0.81433	0.98828	0.000	-21.36011	30.00000	Averaged	
16 Bromomethane	1.54080	1.77034	0.000	-14.89751	30.00000	Averaged	
17 Chloroethane	0.66945	0.77931	0.000	-16.40999	30.00000	Averaged	
18 Vinyl Bromide	1.49262	1.65616	0.000	-10.95608	30.00000	Averaged	
19 2-methyl butane	1.57518	1.70627	0.000	-8.32228	30.00000	Averaged	
20 Trichlorofluoromethane	4.77550	5.59190	0.000	-17.09556	30.00000	Averaged	
21 Acrolein	0.32603	0.23951	0.000	26.53877	30.00000	Averaged	
22 Acetonitrile	0.42420	0.26323	0.000	37.94606	30.00000	Averaged	<-
23 Acetone	0.36425	0.30648	0.000	15.86025	30.00000	Averaged	
24 Pentane	0.37804	0.41631	0.000	-10.12354	30.00000	Averaged	
25 Isopropyl alcohol	1.54961	1.48709	0.000	4.03460	30.00000	Averaged	
26 Ethyl Ether	1.15367	0.86778	0.000	24.78105	30.00000	Averaged	
27 1,1-Dichloroethene	1.37507	1.40759	0.000	-2.36475	30.00000	Averaged	
28 tert-butanol	2.09049	2.09764	0.000	-0.34203	30.00000	Averaged	
29 Acrylonitrile	0.59143	0.44457	0.000	24.83032	30.00000	Averaged	
30 1,1,2-Trichlorotrifluoroeth	2.74927	2.78145	0.000	-1.17079	30.00000	Averaged	
31 Methylene Chloride	1.17831	1.10310	0.000	6.38293	30.00000	Averaged	
32 3-Chloropropene	1.42662	1.24357	0.000	12.83068	30.00000	Averaged	
33 Carbon Disulfide	4.22345	4.72765	0.000	-11.93817	30.00000	Averaged	
34 2,3-Dimethyl butane	3.30101	2.88508	0.000	12.60010	30.00000	Averaged	
35 trans-1,2-Dichloroethene	1.47606	1.42800	0.000	3.25600	30.00000	Averaged	
36 Methyl-t-Butyl Ether	2.74222	2.21018	0.000	19.40201	30.00000	Averaged	
37 1,1-Dichloroethane	2.52311	2.21086	0.000	12.37562	30.00000	Averaged	
38 Vinyl Acetate	2.06535	1.58925	0.000	23.05180	30.00000	Averaged	

Data File: /var/chem/gcms/mj.i/J041707.b/jccvd17.d
Report Date: 17-Apr-2007 11:07

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mj.i
Lab File ID: jccvd17.d
Analysis Type: AIR
Lab Sample ID: CCV/LCS
Method: /var/chem/gcms/mj.i/J041707.b/TO15.m

Injection Date: 17-APR-2007 10:04
Init. Cal. Date(s): 16-MAR-2007 16-MAR-2007
Init. Cal. Times: 09:31 14:36
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF4	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
39 Hexane	1.02701	0.91529	0.000	10.87858	30.00000	Averaged
40 2-Butanone	0.39707	0.31849	0.000	19.78851	30.00000	Averaged
41 cis 1,2-Dichloroethene	1.38233	1.18245	0.000	14.45956	30.00000	Averaged
42 Ethyl acetate	1.72137	1.41493	0.000	17.80216	30.00000	Averaged
43 Chloroform	3.08262	2.78345	0.000	9.70507	30.00000	Averaged
44 Tetrahydrofuran	0.91786	0.72953	0.000	20.51783	30.00000	Averaged
45 1,1,1-Trichloroethane	3.44253	3.11391	0.000	9.54596	30.00000	Averaged
46 1,2-Dichloroethane	0.56092	0.51227	0.000	8.67406	30.00000	Averaged
47 Cyclohexane	0.17240	0.16454	0.000	4.56303	30.00000	Averaged
48 1-Butanol	0.12845	0.11267	0.000	12.28131	30.00000	Averaged
49 Benzene	0.96376	0.76968	0.000	20.13714	30.00000	Averaged
50 Carbon Tetrachloride	3.60831	3.47268	0.000	3.75895	30.00000	Averaged
51 2,2,4-trimethylpentane	1.58977	1.33095	0.000	16.28079	30.00000	Averaged
52 Heptane	0.56974	0.49311	0.000	13.44883	30.00000	Averaged
53 1,2-Dichloropropane	0.29370	0.25614	0.000	12.78752	30.00000	Averaged
54 Trichloroethene	0.56412	0.51790	0.000	8.19304	30.00000	Averaged
55 Dibromomethane	0.50067	0.43466	0.000	13.18457	30.00000	Averaged
56 Bromodichloromethane	0.84188	0.82305	0.000	2.23678	30.00000	Averaged
57 1,4-dioxane	0.14623	0.14925	0.000	-2.06206	30.00000	Averaged
58 Methyl Methacrylate	0.29860	0.25729	0.000	13.83493	30.00000	Averaged
59 4-Methyl-2-pentanone	0.45381	0.44211	0.000	2.57699	30.00000	Averaged
60 cis-1,3-Dichloropropene	0.52311	0.46653	0.000	10.81763	30.00000	Averaged
61 trans-1,3-Dichloropropene	0.60809	0.50949	0.000	16.21377	30.00000	Averaged
62 Toluene	1.04138	0.82073	0.000	21.18748	30.00000	Averaged
63 1,1,2-Trichloroethane	0.37628	0.32589	0.000	13.39157	30.00000	Averaged
64 2-Hexanone	0.23474	0.22810	0.000	2.83102	30.00000	Averaged
65 Octane	0.37938	0.34927	0.000	7.93613	30.00000	Averaged
66 Dibromochloromethane	0.81774	0.80465	0.000	1.60072	30.00000	Averaged
67 1,2-Dibromoethane	0.64032	0.55697	0.000	13.01719	30.00000	Averaged
68 Tetrachloroethene	0.49065	0.42607	0.000	13.16192	30.00000	Averaged
69 Chlorobenzene	0.85041	0.73000	0.000	14.15869	30.00000	Averaged
70 Ethylbenzene	1.23311	0.97815	0.000	20.67609	30.00000	Averaged
71 m&p-Xylene	0.95411	0.75230	0.000	21.15174	30.00000	Averaged
72 Nonane	0.65186	0.60500	0.000	7.18776	30.00000	Averaged
73 Bromoform	0.76308	0.72697	0.000	4.73117	30.00000	Averaged

Data File: /var/chem/gcms/mj.i/J041707.b/jccvd17.d
Report Date: 17-Apr-2007 11:07

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mj.i
Lab File ID: jccvd17.d
Analysis Type: AIR
Lab Sample ID: CCV/LCS
Method: /var/chem/gcms/mj.i/J041707.b/TO15.m

Injection Date: 17-APR-2007 10:04
Init. Cal. Date(s): 16-MAR-2007 16-MAR-2007
Init. Cal. Times: 09:31 14:36
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF4	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
74 Styrene	0.62475	0.51689	0.000	17.26560	30.00000	Averaged	
75 o-Xylene	1.03713	0.79863	0.000	22.99679	30.00000	Averaged	
76 1,1,2,2-Tetrachloroethane	0.73133	0.59043	0.000	19.26574	30.00000	Averaged	
77 1,2,3-Trichloropropane	0.20012	0.16214	0.000	18.97666	30.00000	Averaged	
78 Cumene	1.39545	1.07151	0.000	23.21375	30.00000	Averaged	
79 a-Pinene	1.20219	0.98196	0.000	18.31939	30.00000	Averaged	
80 n-Propylbenzene	0.34698	0.28175	0.000	18.79824	30.00000	Averaged	
81 Camphene	0.72827	0.58865	0.000	19.17116	30.00000	Averaged	
82 2-chlorotoluene	0.36012	0.29421	0.000	18.30339	30.00000	Averaged	
83 4-Ethyltoluene	1.33557	1.05442	0.000	21.05113	30.00000	Averaged	
84 1,3,5-Trimethylbenzene	0.49335	0.39581	0.000	19.77096	30.00000	Averaged	
85 b-Pinene	0.93044	0.70775	0.000	23.93371	30.00000	Averaged	
86 Alpha-Methylstyrene	0.49475	0.40590	0.000	17.95947	30.00000	Averaged	
87 Decane	0.71169	0.59437	0.000	16.48468	30.00000	Averaged	
88 1,2,4-Trimethylbenzene	1.03776	0.82563	0.000	20.44099	30.00000	Averaged	
89 tert-butylbenzene	1.15915	0.89708	0.000	22.60871	30.00000	Averaged	
90 sec-butylbenzene	1.55765	1.19588	0.000	23.22529	30.00000	Averaged	
91 1,3-Dichlorobenzene	0.74927	0.59088	0.000	21.13923	30.00000	Averaged	
92 Benzyl Chloride	0.94852	0.75014	0.000	20.91487	30.00000	Averaged	
93 1,4-Dichlorobenzene	0.73040	0.56971	0.000	22.00105	30.00000	Averaged	
94 p-Cymene	1.27855	1.01362	0.000	20.72113	30.00000	Averaged	
95 d-Limonene	0.50011	0.35877	0.000	28.26112	30.00000	Averaged	
96 1,2-Dichlorobenzene	0.70418	0.52076	0.000	26.04713	30.00000	Averaged	
97 n-butylbenzene	1.15718	0.91346	0.000	21.06136	30.00000	Averaged	
98 Undecane	0.71536	0.49728	0.000	30.48498	30.00000	Averaged	<- ok
99 4-tert-Butyltoluene	1.17652	0.89209	0.000	24.17527	30.00000	Averaged	
100 Camphor	0.37849	0.20207	0.000	46.61131	30.00000	Averaged	<- no criteria
101 Dodecane	0.62501	0.46195	0.000	26.08901	30.00000	Averaged	
102 1,2,4-Trichlorobenzene	0.42479	0.26833	0.000	36.83373	30.00000	Averaged	<- ✓
103 Napthalene	0.80005	0.58188	0.000	27.26970	30.00000	Averaged	
104 Hexachlorobutadiene	0.62159	0.41361	0.000	33.45976	30.00000	Averaged	<- ✓
105 1,2,3-trichlorobenzene	0.40710	0.25078	0.000	38.39869	30.00000	Averaged	<- NT

Data File: /var/chem/gcms/mj.i/J041707.b/jccvd17.d
Report Date: 17-Apr-2007 11:07

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041707.b/jccvd17.d
Lab Smp Id: CCV/LCS Client Smp ID: STD 4
Inj Date : 17-APR-2007 10:04
Operator : 7126 Inst ID: mj.i
Smp Info : CCV/LCS,,2,5,,STD 4
Misc Info : J041707,TO15,,,,40 ML CX1510
Comment :
Method : /var/chem/gcms/mj.i/J041707.b/TO15.m
Meth Date : 17-Apr-2007 11:07 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
* 1 Bromochloromethane	128	8.894	8.894	(1.000)	174498	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.089	11.089	(1.000)	650922	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.806	15.806	(1.000)	597966	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.911	9.911	(0.894)	167060	4.00000	4.033
$ 5 Toluene-d8	98	13.725	13.725	(0.868)	582756	4.00000	4.005
$ 6 4-Bromofluorobenzene	95	17.442	17.442	(1.103)	492294	4.00000	4.080
7 Chlorodifluoromethane	51	3.713	3.713	(0.418)	527357	4.00000	4.635
8 Dichlorodifluoromethane	85	3.773	3.773	(0.424)	992775	4.00000	4.744
9 Propene	41	3.724	3.724	(0.419)	215559	4.00000	4.600
10 Chloromethane	52	3.961	3.961	(0.445)	74775	4.00000	4.281
11 1,2-Dichlorotetrafluoroethane	135	3.961	3.961	(0.445)	529113	4.00000	4.928
12 Methanol	31	4.101	4.101	(0.461)	51354	4.00000	3.614
13 Vinyl Chloride	62	4.133	4.133	(0.465)	267358	4.00000	4.819
14 n-Butane	43	4.219	4.219	(0.474)	359781	4.00000	4.603
15 1,3-Butadiene	54	4.219	4.219	(0.474)	172452	4.00000	4.854

Data File: /var/chem/gcms/mj.i/J041707.b/jccvd17.d
Report Date: 17-Apr-2007 11:07

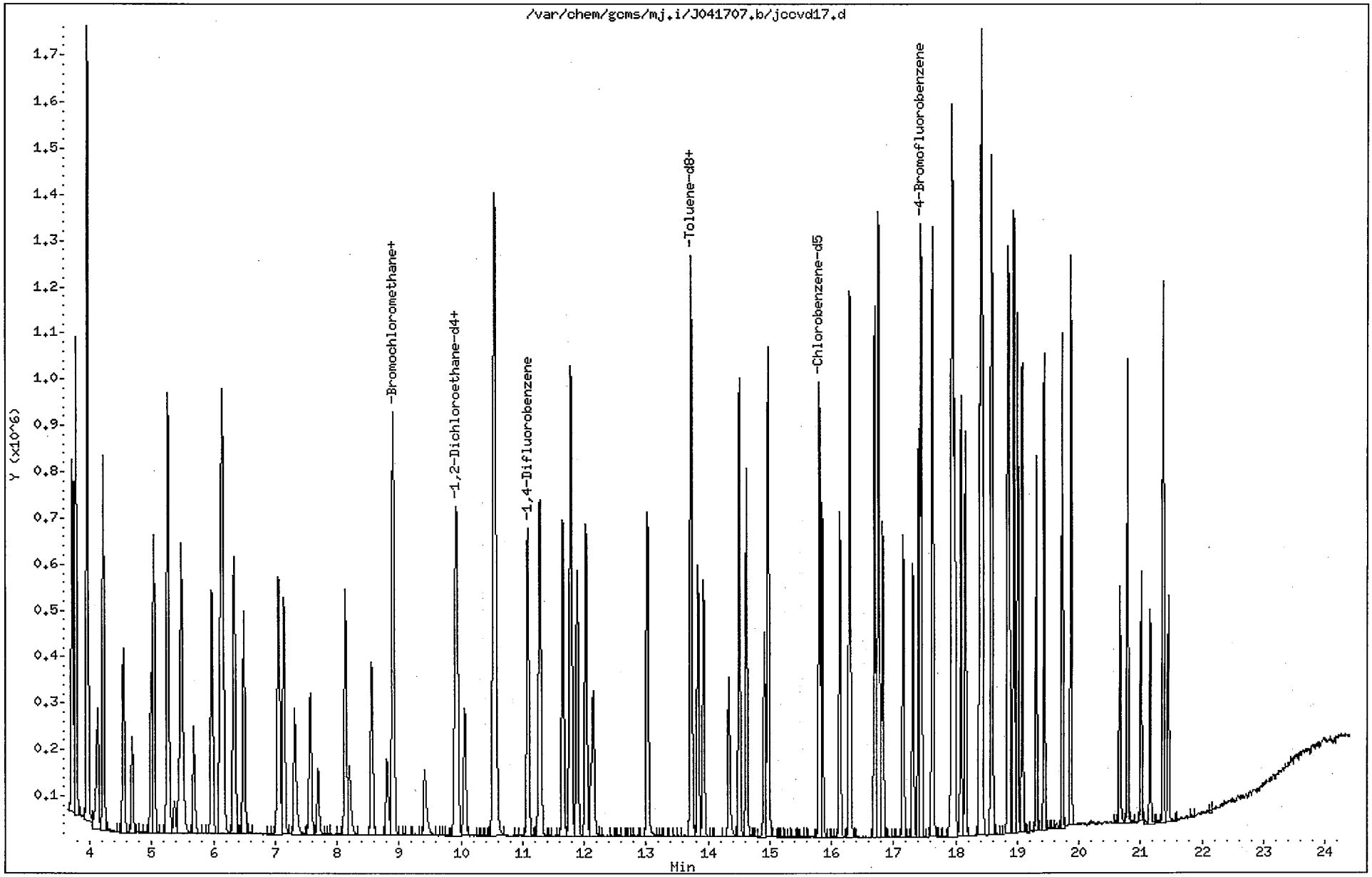
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
16 Bromomethane	94	4.547	4.547	(0.511)	308921	4.00000	4.596
17 Chloroethane	64	4.687	4.687	(0.527)	135988	4.00000	4.656
18 Vinyl Bromide	106	4.988	4.988	(0.561)	288996	4.00000	4.438
19 2-methyl butane	43	5.037	5.037	(0.566)	297740	4.00000	4.333
20 Trichlorofluoromethane	101	5.263	5.263	(0.592)	975775	4.00000	4.684
21 Acrolein	56	5.295	5.295	(0.595)	41793	4.00000	2.938
22 Acetonitrile	40	5.365	5.365	(0.603)	45933	4.00000	2.482
23 Acetone	58	5.435	5.435	(0.611)	53479	4.00000	3.366
24 Pentane	57	5.478	5.478	(0.616)	72644	4.00000	4.405
25 Isopropyl alcohol	45	5.505	5.505	(0.619)	259493	4.00000	3.839
26 Ethyl Ether	31	5.677	5.677	(0.638)	151425	4.00000	3.009
27 1,1-Dichloroethene	96	5.978	5.978	(0.672)	245621	4.00000	4.094
28 tert-butanol	59	6.107	6.107	(0.687)	366033	4.00000	4.014
29 Acrylonitrile	53	6.102	6.102	(0.686)	77577	4.00000	3.007
30 1,1,2-Trichlorotrifluoroethane	101	6.145	6.145	(0.691)	485358	4.00000	4.047
31 Methylene Chloride	84	6.328	6.328	(0.711)	192489	4.00000	3.745
32 3-Chloropropene	39	6.344	6.344	(0.713)	217001	4.00000	3.487
33 Carbon Disulfide	76	6.495	6.495	(0.730)	824966	4.00000	4.478
34 2,3-Dimethyl butane	43	7.059	7.059	(0.794)	503440	4.00000	3.496
35 trans-1,2-Dichloroethene	96	7.140	7.140	(0.803)	249183	4.00000	3.870
36 Methyl-t-Butyl Ether	73	7.318	7.318	(0.823)	385671	4.00000	3.224
37 1,1-Dichloroethane	63	7.571	7.571	(0.851)	385790	4.00000	3.505
38 Vinyl Acetate	43	7.694	7.694	(0.865)	277321	4.00000	3.078
39 Hexane	56	8.135	8.135	(0.915)	159715	4.00000	3.565
40 2-Butanone	72	8.195	8.195	(0.921)	55576	4.00000	3.208
41 cis 1,2-Dichloroethene	96	8.560	8.560	(0.962)	206335	4.00000	3.422
42 Ethyl acetate	43	8.802	8.802	(0.990)	246902	4.00000	3.288
43 Chloroform	83	8.910	8.910	(1.002)	485707	4.00000	3.612
44 Tetrahydrofuran	42	9.416	9.416	(1.059)	127301	4.00000	3.179
45 1,1,1-Trichloroethane	97	9.937	9.937	(1.117)	543371	4.00000	3.618
46 1,2-Dichloroethane	62	10.061	10.061	(0.907)	333447	4.00000	3.653
47 Cyclohexane	69	10.529	10.529	(0.950)	107100	4.00000	3.817
48 1-Butanol	31	10.562	10.562	(0.952)	73341	4.00000	3.509
49 Benzene	78	10.540	10.540	(0.950)	501004	4.00000	3.194
50 Carbon Tetrachloride	117	10.556	10.556	(1.187)	605975	4.00000	3.850
51 2,2,4-trimethylpentane	57	11.282	11.282	(1.017)	866342	4.00000	3.349
52 Heptane	43	11.654	11.654	(1.051)	320979	4.00000	3.462
53 1,2-Dichloropropane	63	11.767	11.767	(1.061)	166727	4.00000	3.488
54 Trichloroethene	130	11.793	11.793	(1.064)	337113	4.00000	3.672
55 Dibromomethane	93	11.885	11.885	(1.072)	282931	4.00000	3.473
56 Bromodichloromethane	83	12.030	12.030	(1.085)	535743	4.00000	3.910
57 1,4-dioxane	88	12.111	12.111	(1.092)	97148	4.00000	4.082
58 Methyl Methacrylate	41	12.148	12.148	(1.096)	167475	4.00000	3.447
59 4-Methyl-2-pentanone	43	13.009	13.009	(1.173)	287779	4.00000	3.897
60 cis-1,3-Dichloropropene	75	13.031	13.031	(1.175)	303672	4.00000	3.567
61 trans-1,3-Dichloropropene	75	13.725	13.725	(0.868)	304659	4.00000	3.351
62 Toluene	91	13.838	13.838	(0.875)	490771	4.00000	3.152

Data File: /var/chem/gcms/mj.i/J041707.b/jccvd17.d
Report Date: 17-Apr-2007 11:07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
63 1,1,2-Trichloroethane	97	13.929	13.929	(0.881)	194873	4.00000	3.464
64 2-Hexanone	58	14.338	14.338	(0.907)	136393	4.00000	3.887
65 Octane	85	14.510	14.510	(0.918)	208852	4.00000	3.682
66 Dibromochloromethane	129	14.623	14.623	(0.925)	481154	4.00000	3.936
67 1,2-Dibromoethane	107	14.919	14.919	(0.944)	333047	4.00000	3.479
68 Tetrachloroethene	129	14.978	14.978	(0.948)	254775	4.00000	3.474
69 Chlorobenzene	112	15.855	15.855	(1.003)	436516	4.00000	3.434
70 Ethylbenzene	91	16.140	16.140	(1.021)	584899	4.00000	3.173
71 m&p-Xylene	91	16.296	16.296	(1.031)	899698	8.00000	6.308
72 Nonane	57	16.699	16.699	(1.056)	361772	4.00000	3.712
73 Bromoform	173	16.759	16.759	(1.060)	434705	4.00000	3.811
74 Styrene	104	16.764	16.764	(1.061)	309080	4.00000	3.309
75 o-Xylene	91	16.823	16.823	(1.064)	477551	4.00000	3.080
76 1,1,2,2-Tetrachloroethane	83	17.151	17.151	(1.085)	353059	4.00000	3.229
77 1,2,3-Trichloropropane	110	17.313	17.313	(1.095)	96956	4.00000	3.241
78 Cumene	105	17.404	17.404	(1.101)	640727	4.00000	3.071
79 a-Pinene	93	17.630	17.630	(1.115)	587178	4.00000	3.267
80 n-Propylbenzene	120	17.942	17.942	(1.135)	168479	4.00000	3.248
81 Camphene	93	17.958	17.958	(1.136)	351992	4.00000	3.233
82 2-chlorotoluene	126	17.991	17.991	(1.138)	175927	4.00000	3.268
83 4-Ethyltoluene	105	18.087	18.087	(1.144)	630504	4.00000	3.158
84 1,3,5-Trimethylbenzene	120	18.163	18.163	(1.149)	236680	4.00000	3.209
85 b-Pinene	93	18.416	18.416	(1.165)	423212	4.00000	3.043
86 Alpha-Methylstyrene	118	18.389	18.389	(1.163)	242711	4.00000	3.282
87 Decane	57	18.432	18.432	(1.166)	355414	4.00000	3.341
88 1,2,4-Trimethylbenzene	105	18.593	18.593	(1.176)	493700	4.00000	3.182
89 tert-butylbenzene	119	18.582	18.582	(1.176)	536422	4.00000	3.096
90 sec-butylbenzene	105	18.846	18.846	(1.192)	715097	4.00000	3.071
91 1,3-Dichlorobenzene	146	18.867	18.867	(1.194)	353325	4.00000	3.154
92 Benzyl Chloride	91	18.943	18.943	(1.198)	448555	4.00000	3.163
93 1,4-Dichlorobenzene	146	18.953	18.953	(1.199)	340664	4.00000	3.120
94 p-Cymene	119	19.007	19.007	(1.202)	606109	4.00000	3.171
95 d-Limonene	68	19.083	19.083	(1.207)	214533	4.00000	2.870
96 1,2-Dichlorobenzene	146	19.314	19.314	(1.222)	311395	4.00000	2.958
97 n-butylbenzene	91	19.438	19.438	(1.230)	546219	4.00000	3.158
98 Undecane	57	19.733	19.733	(1.248)	297357	4.00000	2.781
99 4-tert-Butyltoluene	133	19.873	19.873	(1.257)	533439	4.00000	3.033
100 Camphor	95	20.664	20.664	(1.307)	120831	4.00000	2.136
101 Dodecane	57	20.793	20.793	(1.315)	276233	4.00000	2.956
102 1,2,4-Trichlorobenzene	180	21.014	21.014	(1.329)	160450	4.00000	2.527
103 Napthalene	128	21.159	21.159	(1.339)	347943	4.00000	2.909
104 Hexachlorobutadiene	225	21.374	21.374	(1.352)	247324	4.00000	2.662
105 1,2,3-trichlorobenzene	180	21.455	21.455	(1.357)	149958	4.00000	2.464

Data File: /var/chem/gcms/mj.i/J041707.b/jccvd17.d
Date : 17-APR-2007 10:04
Client ID: STD 4
Sample Info: CCV/LCS,,2,5,,STD 4
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mj.i
Operator: 7126
Column diameter: 0.32



---------- Leak Check Report ----------

4/17/2007 11:11:54 AM
Leak Check for C:\Smart\flush.SEQ
Report File: C:\Smart\flush.LCR
Leak Check Method: Evacuation
Pressurize/Evacuate time(sec) 15
Equilibration time(sec) 15
Maintanance time(sec) 15

Sample Inlet	Auto1	Auto2	Auto3	Start	End	Rate(psi/min)
1	1	---	---	1.4	1.5	0.40
1	2	---	---	0.9	1.0	0.40
1	3	---	---	0.9	1.0	0.40
1	4	---	---	0.8	0.9	0.40
1	5	---	---	0.9	1.0	0.40
1	6	---	---	0.7	0.8	0.40
1	7	---	---	0.7	0.8	0.40
1	8	---	---	0.7	0.7	0.00
1	9	---	---	0.7	0.7	0.00
1	10	---	---	0.7	0.8	0.40
1	11	---	---	0.7	0.7	0.00
1	12	---	---	0.7	0.8	0.40
1	13	---	---	0.8	0.9	0.40
1	14	---	---	0.9	1.0	0.40

---------- Leak Check Report ----------

4/18/2007 9:27:26 AM
Leak Check for C:\Smart\J041707.SEQ
Report File: C:\Smart\J041707.LCR
Leak Check Method: Evacuation
Pressurize/Evacuate time(sec) 15
Equilibration time(sec) 15
Maintanance time(sec) 15

Sample Inlet	Auto1	Auto2	Auto3	Start	End	Rate(psi/min)
1	15	---	---	1.4	1.6	0.80
1	1	---	---	1.0	1.1	0.40
1	2	---	---	0.8	0.9	0.40
1	3	---	---	0.9	1.0	0.40

Raw QC Data

AKRF-White Plains

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H7D170000 - 200B **Work Order #** JT2KK1AA **Matrix.....:** AIR

Prep Date.....: 4/16/07
Prep Batch #.....: 7107200
Dilution Factor.: 1

Date Received..: 4/10/07
Analysis Date.. 4/16/07

Method..... TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	ND	0.080	ND	0.35
Trichlorofluoromethane	ND	0.080	ND	0.45
n-Heptane	ND	0.20	ND	0.82
n-Hexane	ND	0.20	ND	0.70
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	ND	0.080	ND	0.26
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	ND	0.080	ND	0.30
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	ND	0.080	ND	0.35
Methyl tert-butyl ether	ND	0.40	ND	1.4
m-Xylene & p-Xylene	ND	0.080	ND	0.35
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	ND	0.040	ND	0.25
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	ND	0.20	ND	0.69
Dichlorodifluoromethane	ND	0.080	ND	0.40
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37

AKRF-White Plains

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H7D170000 - 200B **Work Order #** JT2KK1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	106	70 - 130
Toluene-d8	99	70 - 130
4-Bromofluorobenzene	99	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mj.i/J041607.b/jblkd16r.d
Report Date: 19-Apr-2007 20:00

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041607.b/jblkd16r.d
Lab Smp Id: JT2KK1AA Client Smp ID: BLANK
Inj Date : 16-APR-2007 22:52
Operator : 7126 Inst ID: mj.i
Smp Info : JT2KK1AA,,3,,,BLANK
Misc Info : J041607,TO15,,,,500 ML
Comment :
Method : /var/chem/gcms/mj.i/J041607.b/TO15.m
Meth Date : 19-Apr-2007 17:51 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

04/20/07

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.898	8.899	(1.000)	158383	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.087	11.083	(1.000)	524241	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.805	15.806	(1.000)	467154	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.909	9.905	(0.894)	141462	4.24064	10.60
$ 5 Toluene-d8	98	13.728	13.724	(0.869)	447951	3.94038	9.851
$ 6 4-Bromofluorobenzene	95	17.440	17.441	(1.103)	372595	3.95264	9.882
9 Propene	41	3.728	3.724	(0.419)	1939	0.04560	0.1140
12 Methanol	31	4.105	4.100	(0.461)	5683	0.44066	1.102
14 n-Butane	43	4.223	4.219	(0.475)	1696	0.02391	0.05977
20 Trichlorofluoromethane	101	5.261	5.262	(0.591)	4891	0.02587	0.06467
23 Acetone	58	5.466	5.434	(0.614)	9102	0.63115	1.578
24 Pentane	57	5.460	5.477	(0.614)	646	0.04319	0.1080
31 Methylene Chloride	84	6.337	6.327	(0.712)	1459	0.03127	0.07818
38 Vinyl Acetate	43	7.892	7.694	(0.887)	6270	0.07667	0.1917
40 2-Butanone	72	8.274	8.189	(0.930)	1430	0.09097	0.2274

7 NT

7 NT

LMM 4-19-07

Data File: /var/chem/gcms/mj.i/J041607.b/jblkd16r.d
Report Date: 19-Apr-2007 20:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
51 2,2,4-trimethylpentane	57	11.087	11.277	(1.000)	46001	0.22078	0.5520
79 a-Pinene	93	17.446	17.630	(1.104)	16546	0.11785	0.2946

ns

CM 4-19-07

Data File: /var/chem/gcms/mj.i/J041607.b/jblkd16r.d
Report Date: 19-Apr-2007 20:00

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jblkd16r.d
Lab Smp Id: JT2KK1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,,,,500 ML

Calibration Date: 16-APR-2007
Calibration Time: 12:57
Client Smp ID: BLANK
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	185541	110397	260685	158383	-14.64
2 1,4-Difluorobenze	738195	439226	1037164	524241	-28.98
3 Chlorobenzene-d5	652787	388408	917166	467154	-28.44

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.90	8.57	9.23	8.90	-0.01
2 1,4-Difluorobenze	11.08	10.75	11.41	11.09	0.04
3 Chlorobenzene-d5	15.81	15.48	16.14	15.80	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J041607.b/jblkd16r.d
Report Date: 19-Apr-2007 20:00

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: JT2KK1AA
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: all.sub
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041607,TO15,,,,500 ML

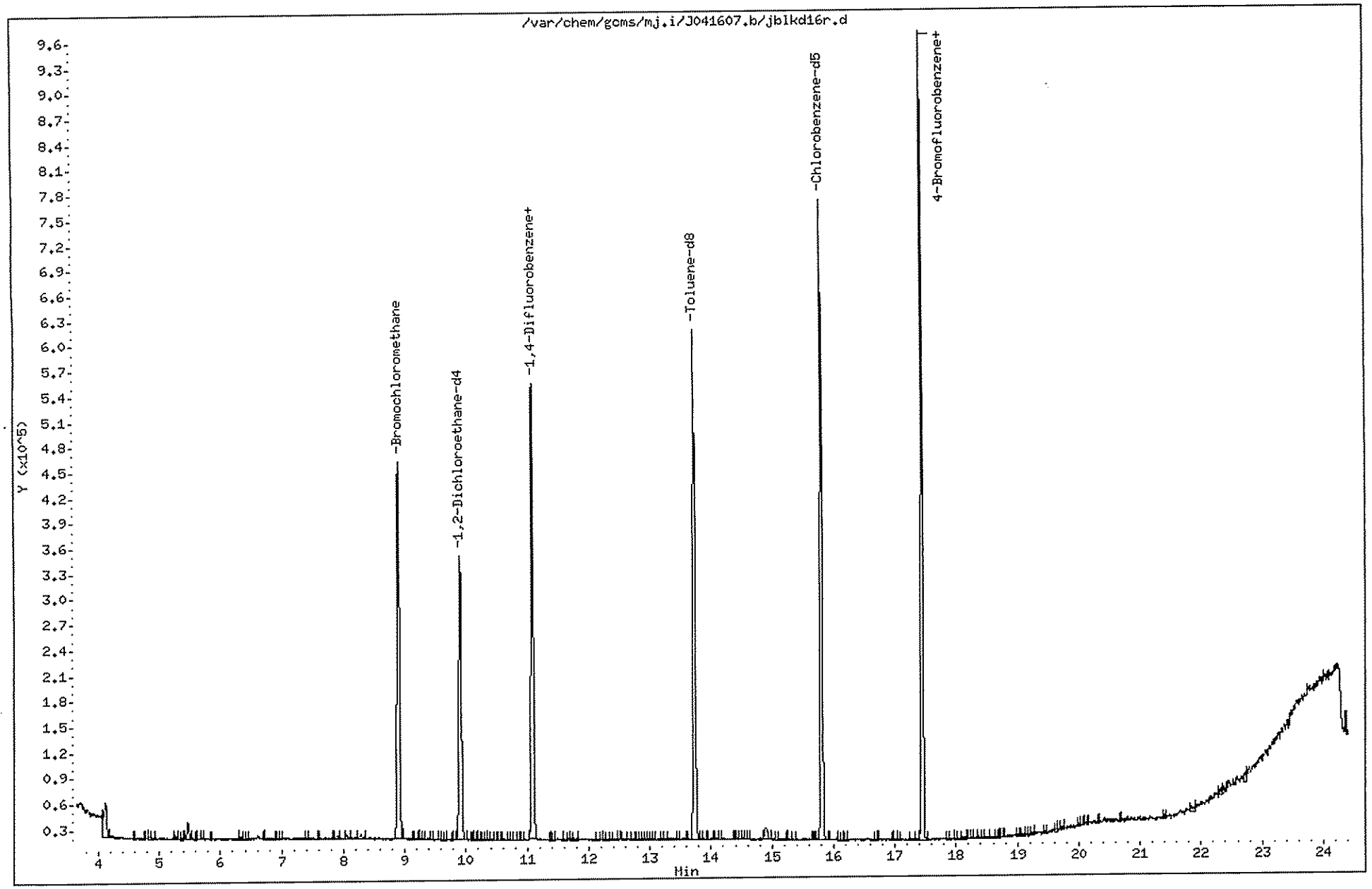
Client SDG: J041607
Fraction: OTHER
Client Smp ID: BLANK
Operator: 7126
SampleType: BLANK
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	10.00	10.60	106.02	70-130
$ 5 Toluene-d8	10.00	9.851	98.51	70-130
$ 6 4-Bromofluorobenze	10.00	9.882	98.82	70-130

Data File: /var/chem/gcms/mj.i/J041607.b/jblkd16r.d
Date : 16-APR-2007 22:52
Client ID: BLANK
Sample Info: JT2KK1AA,,3,,,BLANK
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J041607.b/jblkd16r.d

Date : 16-APR-2007 22:52

Client ID: BLANK

Instrument: mj.i

Sample Info: JT2KK1AA,,3,,,BLANK

Purge Volume: 200.0

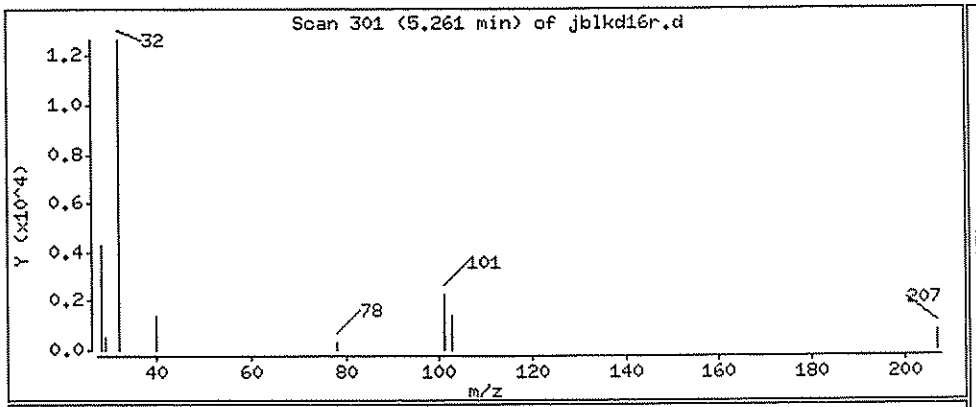
Operator: 7126

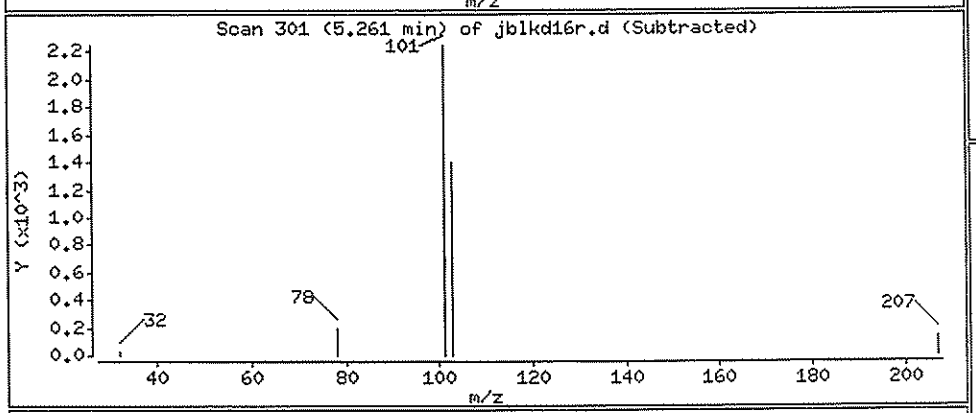
Column phase: Rtx-5

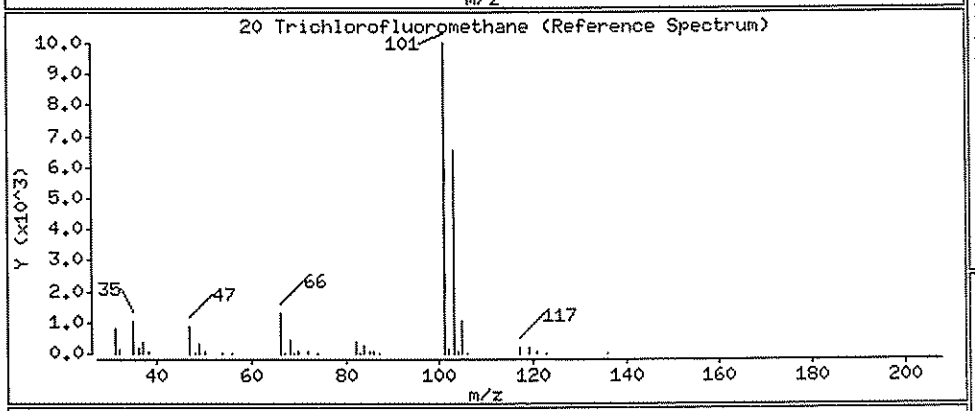
Column diameter: 0.32

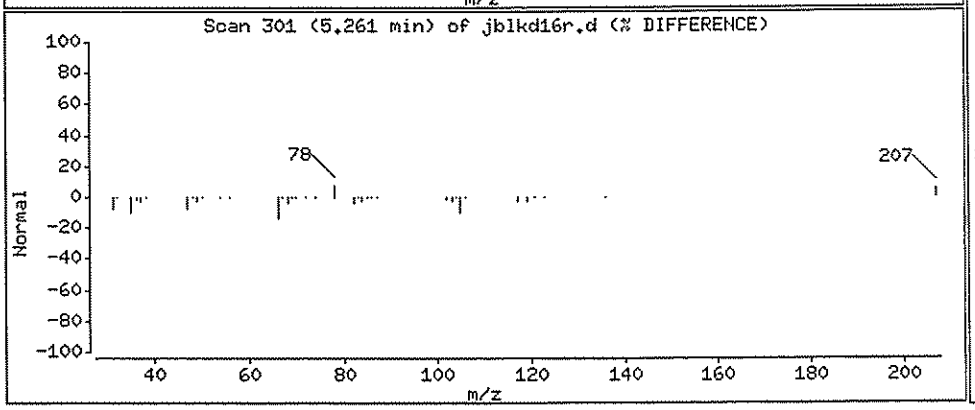
20 Trichlorofluoromethane

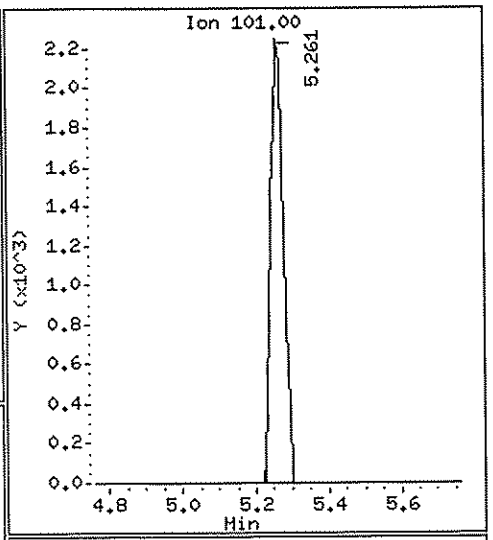
Concentration: 0.06467 ppb(v/v)

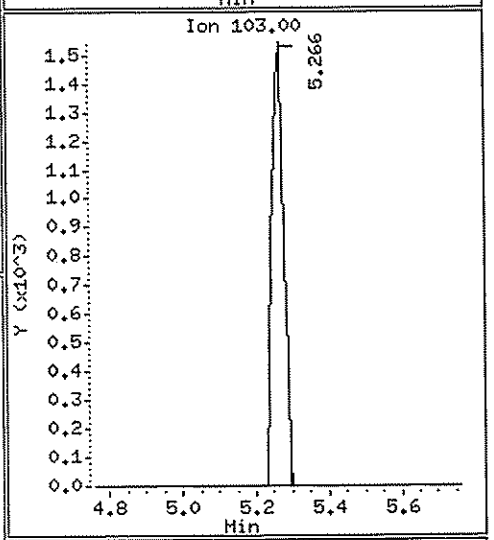


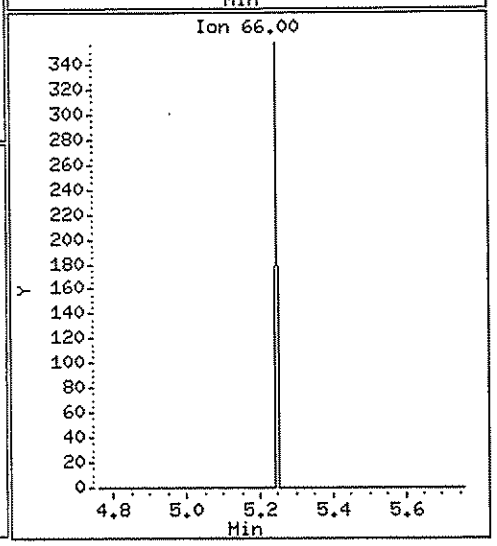












Data File: /var/chem/gcms/mj.i/J041607.b/jblkd16r.d

Date : 16-APR-2007 22:52

Client ID: BLANK

Instrument: mj.i

Sample Info: JT2KK1AA,,3,,,BLANK

Purge Volume: 200.0

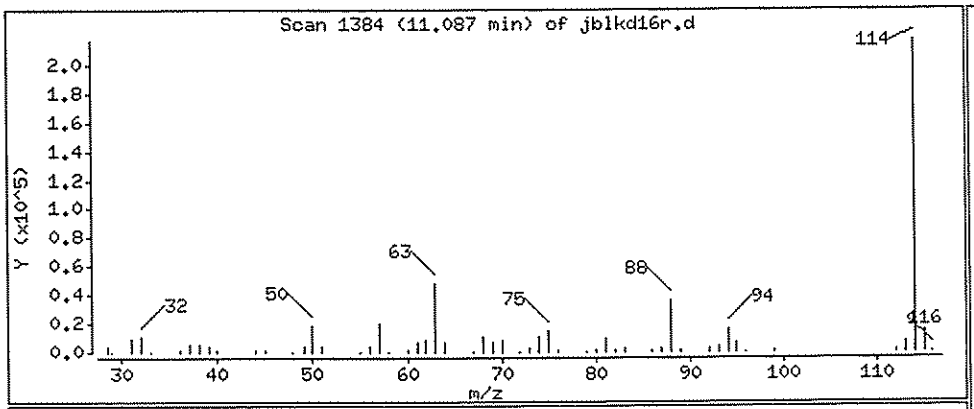
Operator: 7126

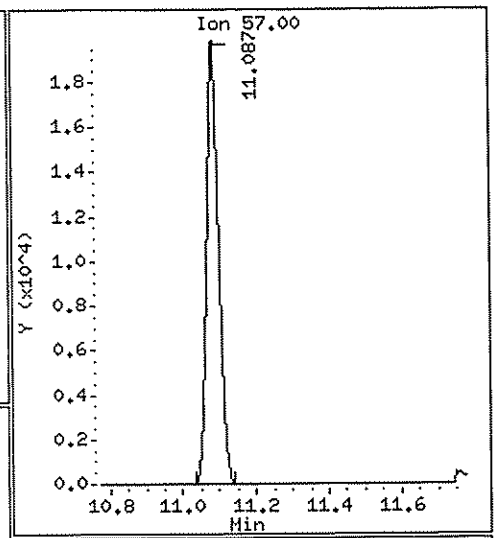
Column phase: Rtx-5

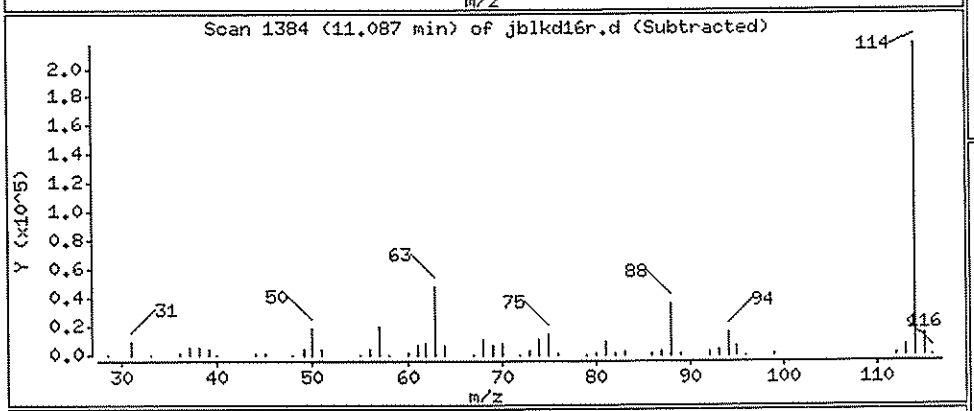
Column diameter: 0.32

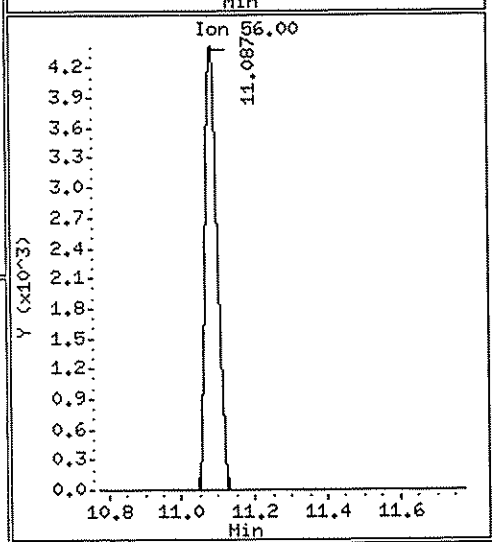
51 2,2,4-trimethylpentane

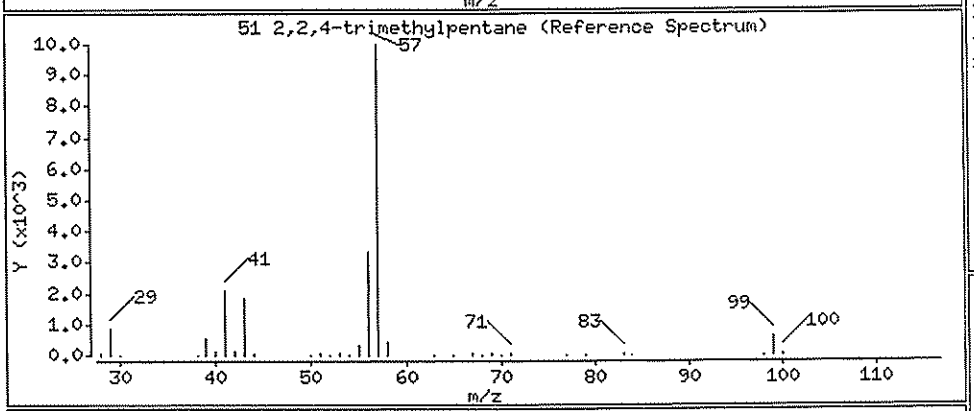
Concentration: 0.5520 ppb(v/v)

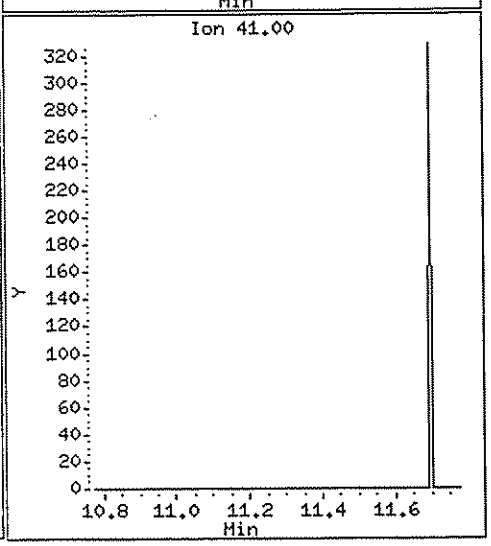


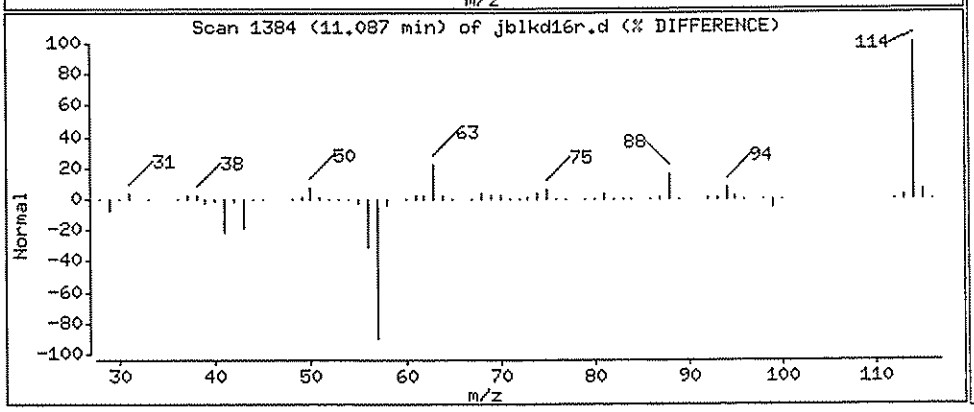












AKRF-White Plains

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H7D170000 - 200C **Work Order #** JT2KK1AC **Matrix.....:** AIR

Date Received..: 4/10/07
Prep Date.....: 4/16/07 **Analysis Date..** 4/16/07
Prep Batch #.....: 7107200
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY		RECOVERY LIMITS
Benzene	10.0	6.95	32	22	69	a	70 - 130
Toluene	10.0	7.36	38	28	74		70 - 130
Trichloroethene	10.0	7.85	54	42	78		70 - 130
1,1-Dichloroethene	10.0	8.62	40	34	86		70 - 130
Chlorobenzene	10.0	7.92	46	36	79		70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	101	70 - 130
Toluene-d8	101	70 - 130
4-Bromofluorobenzene	102	70 - 130

Qualifiers

a Spiked analyte recovery is outside stated control limits.

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TO-14 _rev5.rpt version 5.0.103 10/12/2006

Data File: /var/chem/gcms/mj.i/J041607.b/jccvd16a.d
Report Date: 19-Apr-2007 19:58

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041607.b/jccvd16a.d
Lab Smp Id: JT2KK1AC Client Smp ID: STD 4
Inj Date : 16-APR-2007 12:57
Operator : 7126 Inst ID: mj.i
Smp Info : JT2KK1AC,,3,,,STD 4
Misc Info : J041507,TO15,,,,40 ML CX1510
Comment :
Method : /var/chem/gcms/mj.i/J041607.b/TO15.m
Meth Date : 19-Apr-2007 17:51 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.899	8.899	(1.000)	185541	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.083	11.083	(1.000)	738195	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.806	15.806	(1.000)	652787	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.905	9.905	(0.894)	190021	4.04532	10.11
$ 5 Toluene-d8	98	13.724	13.724	(0.868)	644324	4.05603	10.14
$ 6 4-Bromofluorobenzene	95	17.441	17.441	(1.103)	540033	4.09976	10.25
7 Chlorodifluoromethane	51	3.713	3.713	(0.417)	509820	4.21391	10.53
8 Dichlorodifluoromethane	85	3.778	3.778	(0.424)	965363	4.33817	10.84
9 Propene	41	3.724	3.724	(0.418)	207880	4.17259	10.43
10 Chloromethane	52	3.960	3.960	(0.445)	73927	3.98085	9.952
11 1,2-Dichlorotetrafluoroethane	135	3.960	3.960	(0.445)	522468	4.57613	11.44
12 Methanol	31	4.100	4.100	(0.461)	54566	3.61119	9.028
13 Vinyl Chloride	62	4.133	4.133	(0.464)	262446	4.44903	11.12
14 n-Butane	43	4.219	4.219	(0.474)	353835	4.25787	10.64
15 1,3-Butadiene	54	4.219	4.219	(0.474)	168930	4.47223	11.18
16 Bromomethane	94	4.547	4.547	(0.511)	299688	4.19318	10.48

Data File: /var/chem/gcms/mj.i/J041607.b/jccvd16a.d
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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
17 Chloroethane	64	4.687	4.687	(0.527)	115736	3.72707	9.318
18 Vinyl Bromide	106	4.988	4.988	(0.561)	275592	3.98049	9.951
19 2-methyl butane	43	5.036	5.036	(0.566)	277970	3.80442	9.511
20 Trichlorofluoromethane	101	5.262	5.262	(0.591)	944017	4.26168	10.65
21 Acrolein	56	5.295	5.295	(0.595)	44292	2.92874	7.322
22 Acetonitrile	40	5.364	5.364	(0.603)	48162	2.44767	6.119(R)
23 Acetone	58	5.434	5.434	(0.611)	61292	3.62766	9.069
24 Pentane	57	5.477	5.477	(0.616)	65602	3.74113	9.353
25 Isopropyl alcohol	45	5.504	5.504	(0.619)	252003	3.50594	8.765
26 Ethyl Ether	31	5.677	5.677	(0.638)	155790	2.91124	7.278
27 1,1-Dichloroethene	96	5.972	5.972	(0.671)	220058	3.45010	8.625
28 tert-butanol	59	6.107	6.107	(0.686)	358392	3.69599	9.240
29 Acrylonitrile	53	6.101	6.101	(0.686)	80451	2.93258	7.331
30 1,1,2-Trichlorotrifluoroethane	101	6.145	6.145	(0.690)	408314	3.20182	8.004
31 Methylene Chloride	84	6.327	6.327	(0.711)	169691	3.10469	7.762
32 3-Chloropropene	39	6.344	6.344	(0.713)	199129	3.00917	7.523
33 Carbon Disulfide	76	6.494	6.494	(0.730)	791615	4.04080	10.10
34 2,3-Dimethyl butane	43	7.059	7.059	(0.793)	409538	2.67466	6.687(R)
35 trans-1,2-Dichloroethene	96	7.140	7.140	(0.802)	213333	3.11583	7.790
36 Methyl-t-Butyl Ether	73	7.312	7.312	(0.822)	400271	3.14682	7.867
37 1,1-Dichloroethane	63	7.570	7.570	(0.851)	357919	3.05822	7.646
38 Vinyl Acetate	43	7.694	7.694	(0.865)	295727	3.08686	7.717
39 Hexane	56	8.130	8.130	(0.914)	142206	2.98513	7.463
40 2-Butanone	72	8.189	8.189	(0.920)	59891	3.25175	8.129
41 cis 1,2-Dichloroethene	96	8.555	8.555	(0.961)	194783	3.03781	7.594
42 Ethyl acetate	43	8.797	8.797	(0.988)	261863	3.27959	8.199
43 Chloroform	83	8.904	8.904	(1.001)	466889	3.26523	8.163
44 Tetrahydrofuran	42	9.410	9.410	(1.057)	129994	3.05330	7.633
45 1,1,1-Trichloroethane	97	9.937	9.937	(1.117)	522068	3.26941	8.174
46 1,2-Dichloroethane	62	10.055	10.055	(0.907)	326566	3.15468	7.887
47 Cyclohexane	69	10.523	10.523	(0.950)	93415	2.93601	7.340
48 1-Butanol	31	10.566	10.566	(0.953)	65708	2.77192	6.930(R)
49 Benzene	78	10.534	10.534	(0.950)	494387	2.77964	6.949(R)
50 Carbon Tetrachloride	117	10.556	10.556	(1.186)	551900	3.29744	8.244
51 2,2,4-trimethylpentane	57	11.277	11.277	(1.017)	828228	2.82295	7.057
52 Heptane	43	11.653	11.653	(1.051)	308417	2.93327	7.333
53 1,2-Dichloropropane	63	11.766	11.766	(1.062)	164218	3.02977	7.574
54 Trichloroethene	130	11.793	11.793	(1.064)	326760	3.13868	7.847
55 Dibromomethane	93	11.884	11.884	(1.072)	280828	3.03931	7.598
56 Bromodichloromethane	83	12.030	12.030	(1.085)	524191	3.37386	8.435
57 1,4-dioxane	88	12.105	12.105	(1.092)	97195	3.60157	9.004
58 Methyl Methacrylate	41	12.143	12.143	(1.096)	176452	3.20202	8.005
59 4-Methyl-2-pentanone	43	13.009	13.009	(1.174)	290538	3.46915	8.673
60 cis-1,3-Dichloropropene	75	13.025	13.025	(1.175)	302076	3.12902	7.822
61 trans-1,3-Dichloropropene	75	13.724	13.724	(0.868)	307136	3.09495	7.737
62 Toluene	91	13.837	13.837	(0.875)	500553	2.94531	7.363
63 1,1,2-Trichloroethane	97	13.923	13.923	(0.881)	196463	3.19929	7.998

Data File: /var/chem/gcms/mj.i/J041607.b/jccvd16a.d
Report Date: 19-Apr-2007 19:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
64 2-Hexanone	58	14.337	14.337	(0.907)	137263	3.58304	8.958
65 Octane	85	14.510	14.510	(0.918)	203908	3.29344	8.234
66 Dibromochloromethane	129	14.623	14.623	(0.925)	482143	3.61283	9.032
67 1,2-Dibromoethane	107	14.918	14.918	(0.944)	341693	3.26986	8.175
68 Tetrachloroethene	129	14.978	14.978	(0.948)	255811	3.19474	7.987
69 Chlorobenzene	112	15.854	15.854	(1.003)	439487	3.16670	7.917
70 Ethylbenzene	91	16.140	16.140	(1.021)	595207	2.95771	7.394
71 m&p-Xylene	91	16.301	16.301	(1.031)	934501	6.00164	15.00
72 Nonane	57	16.699	16.699	(1.056)	363349	3.41554	8.539
73 Bromoform	173	16.758	16.758	(1.060)	451783	3.62786	9.070
74 Styrene	104	16.764	16.764	(1.061)	328491	3.22183	8.054
75 o-Xylene	91	16.823	16.823	(1.064)	498488	2.94516	7.363
76 1,1,2,2-Tetrachloroethane	83	17.156	17.156	(1.085)	373583	3.13013	7.825
77 1,2,3-Trichloropropane	110	17.318	17.318	(1.096)	105827	3.24036	8.101
78 Cumene	105	17.404	17.404	(1.101)	665696	2.92315	7.308
79 a-Pinene	93	17.630	17.630	(1.115)	575975	2.93574	7.339
80 n-Propylbenzene	120	17.942	17.942	(1.135)	175492	3.09914	7.748
81 Camphene	93	17.958	17.958	(1.136)	376022	3.16381	7.910
82 2-chlorotoluene	126	17.990	17.990	(1.138)	185716	3.15998	7.900
83 4-Ethyltoluene	105	18.092	18.092	(1.145)	668728	3.06812	7.670
84 1,3,5-Trimethylbenzene	120	18.162	18.162	(1.149)	254225	3.15756	7.894
85 b-Pinene	93	18.420	18.420	(1.165)	318797	2.09949	5.249(R)
86 Alpha-Methylstyrene	118	18.394	18.394	(1.164)	247367	3.06369	7.659
87 Decane	57	18.437	18.437	(1.166)	380107	3.27267	8.182
88 1,2,4-Trimethylbenzene	105	18.598	18.598	(1.177)	543593	3.20970	8.024
89 tert-butylbenzene	119	18.582	18.582	(1.176)	575582	3.04269	7.607
90 sec-butylbenzene	105	18.851	18.851	(1.193)	780331	3.06971	7.674
91 1,3-Dichlorobenzene	146	18.872	18.872	(1.194)	390593	3.19430	7.986
92 Benzyl Chloride	91	18.948	18.948	(1.199)	510537	3.29815	8.245
93 1,4-Dichlorobenzene	146	18.958	18.958	(1.199)	375974	3.15416	7.885
94 p-Cymene	119	19.012	19.012	(1.203)	1211798	5.80766	14.52(R)
95 d-Limonene	68	19.082	19.082	(1.207)	182416	2.23505	5.588(R)
96 1,2-Dichlorobenzene	146	19.313	19.313	(1.222)	347674	3.02538	7.563
97 n-butylbenzene	91	19.437	19.437	(1.230)	610007	3.23015	8.075
98 Undecane	57	19.738	19.738	(1.249)	330708	2.83275	7.082
99 4-tert-Butyltoluene	133	19.873	19.873	(1.257)	521014	2.71356	6.784(R)
100 Camphor	95	20.669	20.669	(1.308)	64190	1.03920	2.598(R)
101 Dodecane	57	20.798	20.798	(1.316)	265789	2.60577	6.514(R)
102 1,2,4-Trichlorobenzene	180	21.013	21.013	(1.329)	195752	2.82368	7.059
103 Napthalene	128	21.164	21.164	(1.339)	365576	2.79994	7.000(R)
104 Hexachlorobutadiene	225	21.374	21.374	(1.352)	248272	2.44743	6.118(R)
105 1,2,3-trichlorobenzene	180	21.454	21.454	(1.357)	171342	2.57898	6.447(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mj.i/J041607.b/jccvd16a.d
Report Date: 19-Apr-2007 19:58

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jccvd16a.d
Lab Smp Id: JT2KK1AC
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041507,TO15,,,,40 ML CX1510

Calibration Date: 16-APR-2007
Calibration Time: 12:57
Client Smp ID: STD 4
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	185541	110397	260685	185541	0.00
2 1,4-Difluorobenze	738195	439226	1037164	738195	0.00
3 Chlorobenzene-d5	652787	388408	917166	652787	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.90	8.57	9.23	8.90	0.00
2 1,4-Difluorobenze	11.08	10.75	11.41	11.08	0.00
3 Chlorobenzene-d5	15.81	15.48	16.14	15.81	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J041607.b/jccvd16a.d
Report Date: 19-Apr-2007 19:58

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: JT2KK1AC
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: all.sub
Method File: /var/chem/gcms/mj.i/J041607.b/TO15.m
Misc Info: J041507,TO15,,,,40 ML CX1510

Client SDG: J041507
Fraction: OTHER
Client Smp ID: STD 4
Operator: 7126
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
7 Chlorodifluorometh	10.00	10.53	105.35	70-130
8 Dichlorodifluorome	10.00	10.84	108.45	70-130
9 Propene	10.00	10.43	104.31	70-130
11 1,2-Dichlorotetraf	10.00	11.44	114.40	70-130
10 Chloromethane	10.00	9.952	99.52	70-130
12 Methanol	10.00	9.028	90.28	70-130
13 Vinyl Chloride	10.00	11.12	111.23	70-130
14 n-Butane	10.00	10.64	106.45	70-130
15 1,3-Butadiene	10.00	11.18	111.81	70-130
16 Bromomethane	10.00	10.48	104.83	70-130
17 Chloroethane	10.00	9.318	93.18	70-130
18 Vinyl Bromide	10.00	9.951	99.51	70-130
19 2-methyl butane	10.00	9.511	95.11	70-130
20 Trichlorofluoromet	10.00	10.65	106.54	70-130
21 Acrolein	10.00	7.322	73.22	70-130
22 Acetonitrile	10.00	6.119	61.19*	70-130
23 Acetone	10.00	9.069	90.69	70-130
24 Pentane	10.00	9.353	93.53	70-130
25 Isopropyl alcohol	10.00	8.765	87.65	70-130
26 Ethyl Ether	10.00	7.278	72.78	70-130
27 1,1-Dichloroethene	10.00	8.625	86.25	70-130
29 Acrylonitrile	10.00	7.331	73.31	70-130
28 tert-butanol	10.00	9.240	92.40	70-130
30 1,1,2-Trichlorotri	10.00	8.004	80.05	70-130
31 Methylene Chloride	10.00	7.762	77.62	70-130
32 3-Chloropropene	10.00	7.523	75.23	70-130
33 Carbon Disulfide	10.00	10.10	101.02	70-130
34 2,3-Dimethyl butan	10.00	6.687	66.87*	70-130
35 trans-1,2-Dichloro	10.00	7.790	77.90	70-130
36 Methyl-t-Butyl Eth	10.00	7.867	78.67	70-130
37 1,1-Dichloroethane	10.00	7.646	76.46	70-130
38 Vinyl Acetate	10.00	7.717	77.17	70-130
40 2-Butanone	10.00	8.129	81.29	70-130

Data File: /var/chem/gcms/mj.i/J041607.b/jccvd16a.d
Report Date: 19-Apr-2007 19:58

SPIKE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
39 Hexane	10.00	7.463	74.63	70-130
41 cis 1,2-Dichloroet	10.00	7.594	75.95	70-130
42 Ethyl acetate	10.00	8.199	81.99	70-130
43 Chloroform	10.00	8.163	81.63	70-130
44 Tetrahydrofuran	10.00	7.633	76.33	70-130
45 1,1,1-Trichloroeth	10.00	8.174	81.74	70-130
46 1,2-Dichloroethane	10.00	7.887	78.87	70-130
48 1-Butanol	10.00	6.930	69.30*	70-130
47 Cyclohexane	10.00	7.340	73.40	70-130
49 Benzene	10.00	6.949	69.49*	70-130
50 Carbon Tetrachlori	10.00	8.244	82.44	70-130
51 2,2,4-trimethylpen	10.00	7.057	70.57	70-130
52 Heptane	10.00	7.333	73.33	70-130
53 1,2-Dichloropropan	10.00	7.574	75.74	70-130
54 Trichloroethene	10.00	7.847	78.47	70-130
55 Dibromomethane	10.00	7.598	75.98	70-130
56 Bromodichlorometha	10.00	8.435	84.35	70-130
57 1,4-dioxane	10.00	9.004	90.04	70-130
58 Methyl Methacrylat	10.00	8.005	80.05	70-130
59 4-Methyl-2-pentano	10.00	8.673	86.73	70-130
60 cis-1,3-Dichloropr	10.00	7.822	78.23	70-130
61 trans-1,3-Dichloro	10.00	7.737	77.37	70-130
62 Toluene	10.00	7.363	73.63	70-130
63 1,1,2-Trichloroeth	10.00	7.998	79.98	70-130
64 2-Hexanone	10.00	8.958	89.58	70-130
65 Octane	10.00	8.234	82.34	70-130
66 Dibromochlorometha	10.00	9.032	90.32	70-130
67 1,2-Dibromoethane	10.00	8.175	81.75	70-130
68 Tetrachloroethene	10.00	7.987	79.87	70-130
69 Chlorobenzene	10.00	7.917	79.17	70-130
70 Ethylbenzene	10.00	7.394	73.94	70-130
71 m&p-Xylene	20.00	15.00	75.02	70-130
72 Nonane	10.00	8.539	85.39	70-130
73 Bromoform	10.00	9.070	90.70	70-130
74 Styrene	10.00	8.054	80.55	70-130
75 o-Xylene	10.00	7.363	73.63	70-130
76 1,1,2,2-Tetrachlor	10.00	7.825	78.25	70-130
77 1,2,3-Trichloropro	10.00	8.101	81.01	70-130
78 Cumene	10.00	7.308	73.08	70-130
79 a-Pinene	10.00	7.339	73.39	70-130
80 n-Propylbenzene	10.00	7.748	77.48	70-130
81 Camphene	10.00	7.910	79.10	70-130
82 2-chlorotoluene	10.00	7.900	79.00	70-130
83 4-Ethyltoluene	10.00	7.670	76.70	70-130
84 1,3,5-Trimethylben	10.00	7.894	78.94	70-130
86 Alpha-Methylstyren	10.00	7.659	76.59	70-130
85 b-Pinene	10.00	5.249	52.49*	70-130

Data File: /var/chem/gcms/mj.i/J041607.b/jccvd16a.d
Report Date: 19-Apr-2007 19:58

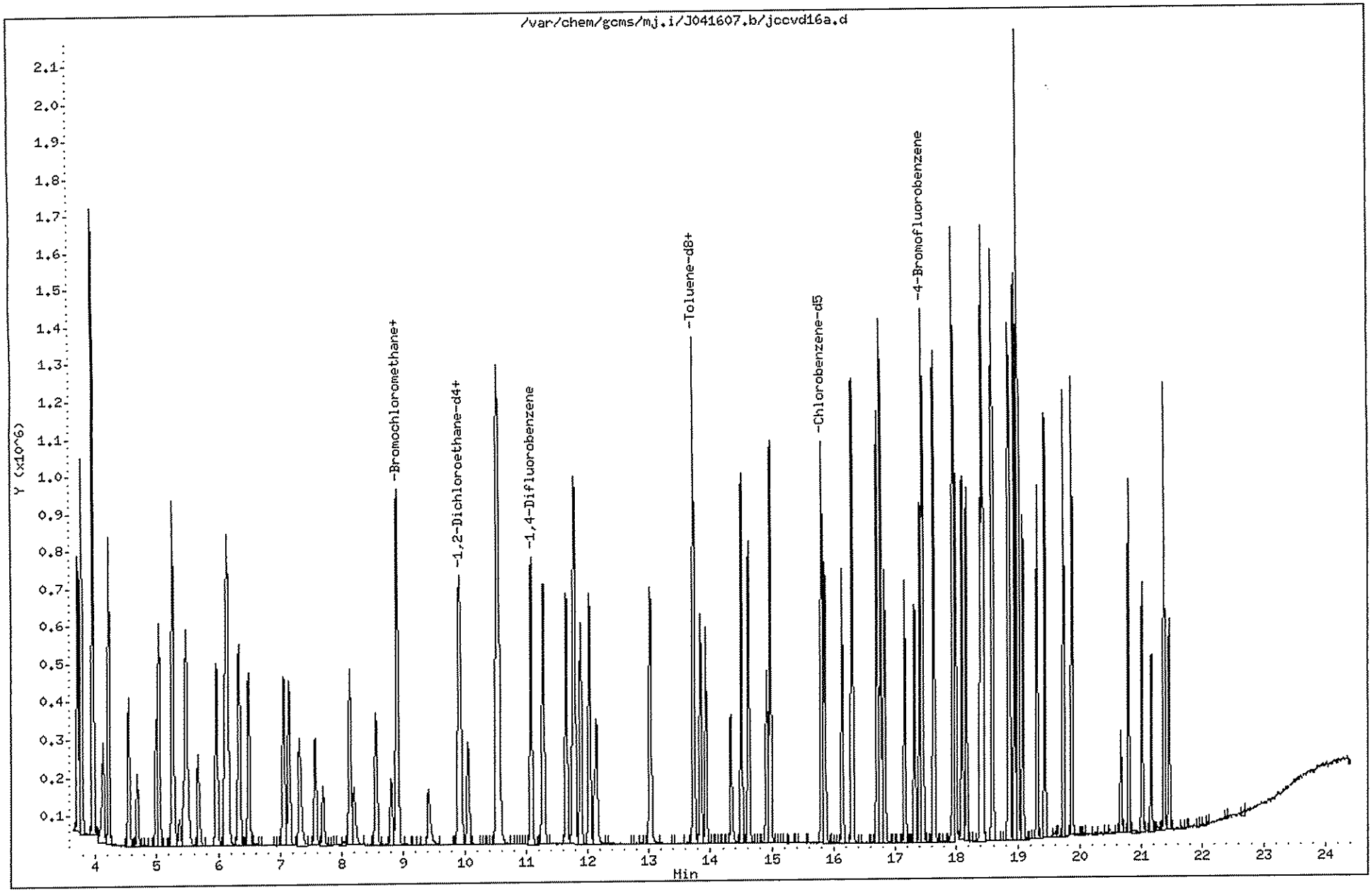
SPIKE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
87 Decane	10.00	8.182	81.82	70-130
88 1,2,4-Trimethylben	10.00	8.024	80.24	70-130
89 tert-butylbenzene	10.00	7.607	76.07	70-130
90 sec-butylbenzene	10.00	7.674	76.74	70-130
91 1,3-Dichlorobenzen	10.00	7.986	79.86	70-130
93 1,4-Dichlorobenzen	10.00	7.885	78.85	70-130
92 Benzyl Chloride	10.00	8.245	82.45	70-130
94 p-Cymene	10.00	14.52	145.19*	70-130
95 d-Limonene	10.00	5.588	55.88*	70-130
96 1,2-Dichlorobenzen	10.00	7.563	75.63	70-130
97 n-butylbenzene	10.00	8.075	80.75	70-130
98 Undecane	10.00	7.082	70.82	70-130
99 4-tert-Butyltoluen	10.00	6.784	67.84*	70-130
100 Camphor	10.00	2.598	25.98*	70-130
101 Dodecane	10.00	6.514	65.14*	70-130
102 1,2,4-Trichloroben	10.00	7.059	70.59	70-130
103 Napthalene	10.00	7.000	70.00*	70-130
104 Hexachlorobutadien	10.00	6.118	61.19*	70-130
105 1,2,3-trichloroben	10.00	6.447	64.47*	70-130

SURROGATE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	10.00	10.11	101.13	70-130
$ 5 Toluene-d8	10.00	10.14	101.40	70-130
$ 6 4-Bromofluorobenze	10.00	10.25	102.49	70-130

Data File: /var/chem/gcms/mj.i/J041607.b/jccvd16a.d
Date : 16-APR-2007 12:57
Client ID: STD 4
Sample Info: JT2KK1AC,,3,,,STD 4
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 7126
Column diameter: 0.32



AKRF-White Plains

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H7D180000 - 057B **Work Order #** JT4LA1AA **Matrix.....:** AIR

Date Received..: 4/10/07
Prep Date.....: 4/17/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7108057
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
Ethylbenzene	ND	0.080	ND	0.35
Trichlorofluoromethane	ND	0.080	ND	0.45
n-Heptane	ND	0.20	ND	0.82
n-Hexane	ND	0.20	ND	0.70
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	ND	0.080	ND	0.26
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	ND	0.080	ND	0.30
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2-Trichloroethane	ND	0.080	ND	0.44
Trichloroethene	ND	0.040	ND	0.21
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
Vinyl chloride	ND	0.080	ND	0.20
o-Xylene	ND	0.080	ND	0.35
Methyl tert-butyl ether	ND	0.40	ND	1.4
m-Xylene & p-Xylene	ND	0.080	ND	0.35
Bromodichloromethane	ND	0.080	ND	0.54
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
Vinyl bromide	ND	0.080	ND	0.35
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
1,3-Butadiene	ND	0.16	ND	0.35
4-Ethyltoluene	ND	0.16	ND	0.79
Carbon tetrachloride	ND	0.040	ND	0.25
Dibromochloromethane	ND	0.080	ND	0.68
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
3-Chloropropene	ND	0.080	ND	0.25
Cyclohexane	ND	0.20	ND	0.69
Dichlorodifluoromethane	ND	0.080	ND	0.40
1,1-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37

TO-14 _rev5.rpt version 5.0.103 10/12/2006

AKRF-White Plains

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H7D180000 - 057B **Work Order #** JT4LA1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
cis-1,3-Dichloropropene	ND	0.080	ND	0.36

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	102	70 - 130
Toluene-d8	105	70 - 130
4-Bromofluorobenzene	104	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TO-14 _rev5.rpt version 5.0.103 10/12/2006

Data File: /var/chem/gcms/mj.i/J041707.b/6099.d
Report Date: 19-Apr-2007 17:49

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041707.b/6099.d
Lab Smp Id: JT4LA1AA Client Smp ID: CAN 6370
Inj Date : 17-APR-2007 14:18
Operator : 7126 Inst ID: mj.i
Smp Info : JT4LA1AA,,3,,,CAN 6370
Misc Info : J041707,TO15,blkchklow.sub,,,500 ML
Comment :
Method : /var/chem/gcms/mj.i/J041707.b/TO15.m
Meth Date : 18-Apr-2007 12:59 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: blkchklow.sub
Target Version: 3.50
Processing Host: qmidhp01

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.896	8.894	(1.000)	172970	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.086	11.089	(1.000)	700346	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.804	15.806	(1.000)	619970	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.908	9.911	(0.894)	181669	4.07654	4.076
$ 5 Toluene-d8	98	13.727	13.725	(0.869)	635553	4.21259	4.212
$ 6 4-Bromofluorobenzene	95	17.439	17.442	(1.103)	518449	4.14424	4.144
51 2,2,4-trimethylpentane	57	11.081	11.282	(1.000)	60823	0.21852	0.2185
79 a-Pinene	93	17.444	17.630	(1.104)	22830	0.12253	0.1225

KM 4-19-07

Data File: /var/chem/gcms/mj.i/J041707.b/6099.d
Report Date: 19-Apr-2007 17:49

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: 6099.d
Lab Smp Id: JT4LA1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J041707.b/TO15.m
Misc Info: J041707,TO15,blkchklow.sub,,,500 ML

Calibration Date: 17-APR-2007
Calibration Time: 10:04
Client Smp ID: CAN 6370
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	174498	103826	245170	172970	-0.88
2 1,4-Difluorobenze	650922	387299	914545	700346	7.59
3 Chlorobenzene-d5	597966	355790	840142	619970	3.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.89	8.56	9.22	8.90	0.03
2 1,4-Difluorobenze	11.09	10.76	11.42	11.09	-0.02
3 Chlorobenzene-d5	15.81	15.48	16.14	15.80	-0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J041707.b/6099.d
Report Date: 19-Apr-2007 17:49

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: JT4LA1AA
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: blkchklow.sub
Method File: /var/chem/gcms/mj.i/J041707.b/TO15.m
Misc Info: J041707,TO15,blkchklow.sub,,,500 ML

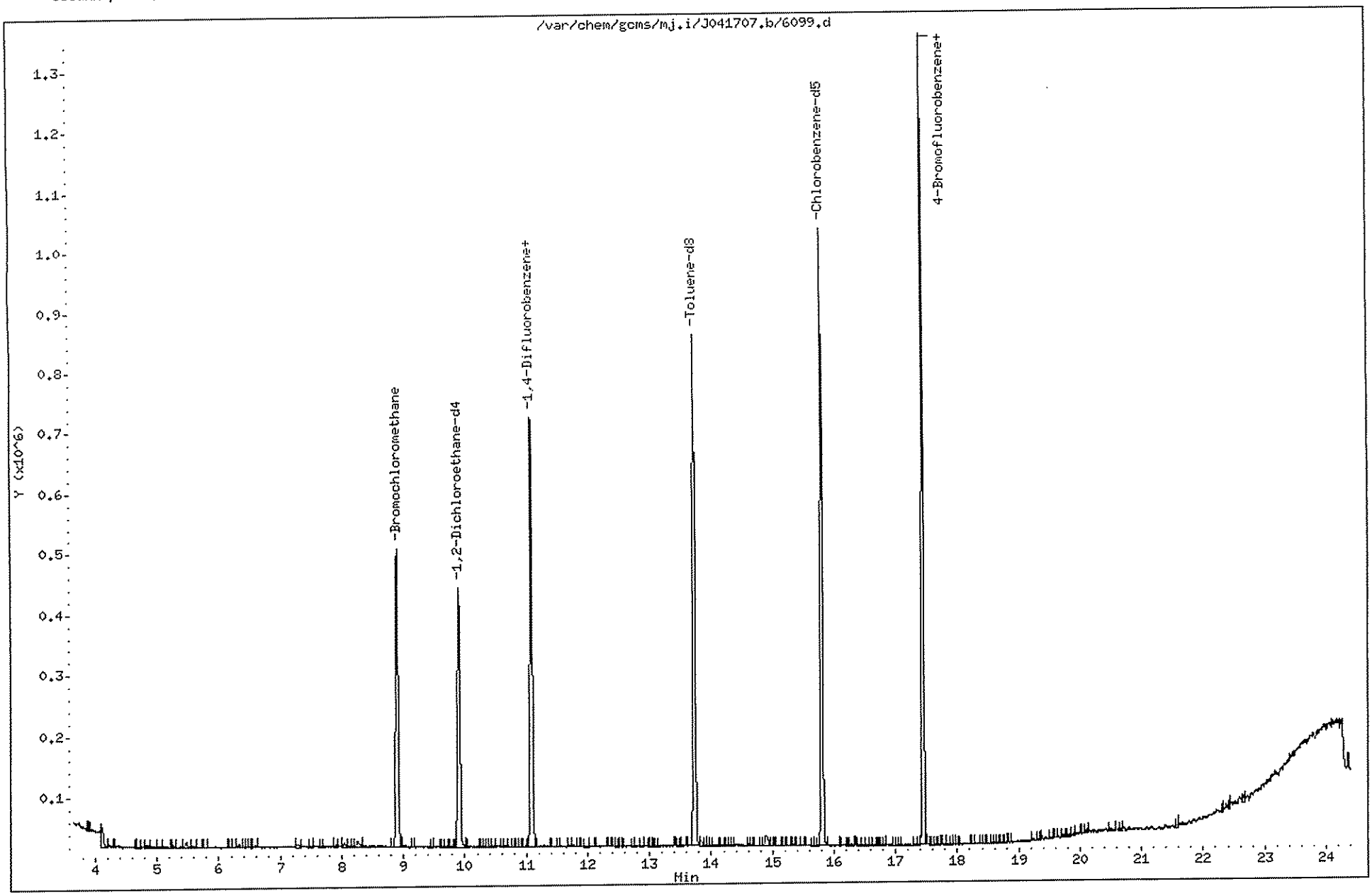
Client SDG: J041707
Fraction: OTHER
Client Smp ID: CAN 6370
Operator: 7126
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	4.000	4.076	101.91	70-130
$ 5 Toluene-d8	4.000	4.212	105.31	70-130
$ 6 4-Bromofluorobenze	4.000	4.144	103.61	70-130

Data File: /var/chem/gcms/mj.i/J041707.b/6099.d
Date : 17-APR-2007 14:18
Client ID: CAN 6370
Sample Info: JT4LA1AA,,3,,,CAN 6370
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J041707.b/6099.d

Date : 17-APR-2007 14:18

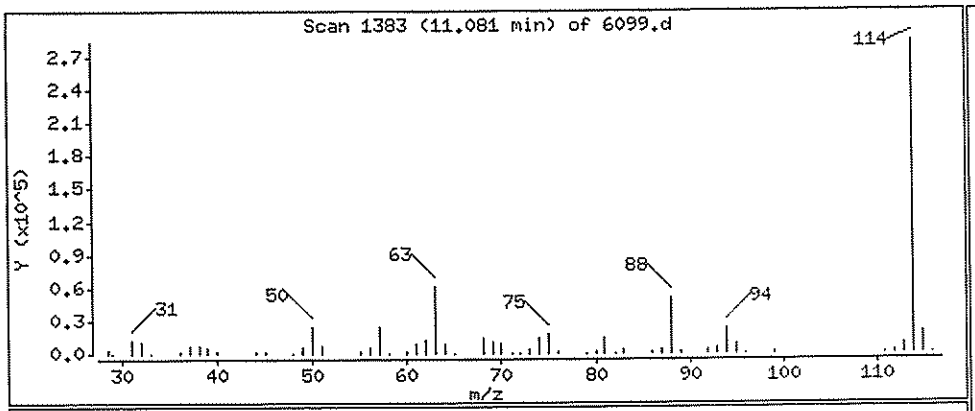
Client ID: CAN 6370 | Instrument: mj.i

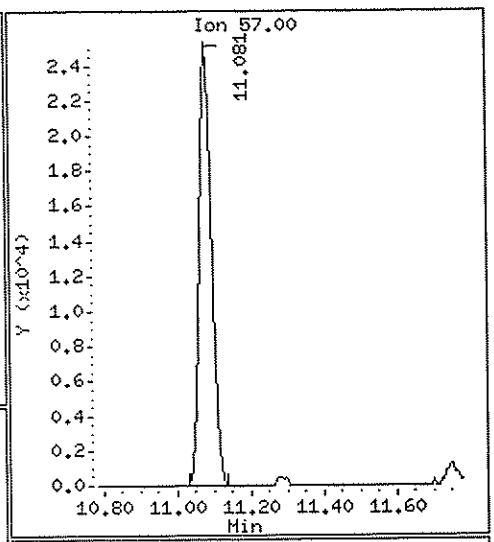
Sample Info: JT4LA1AA,,3,,,CAN 6370

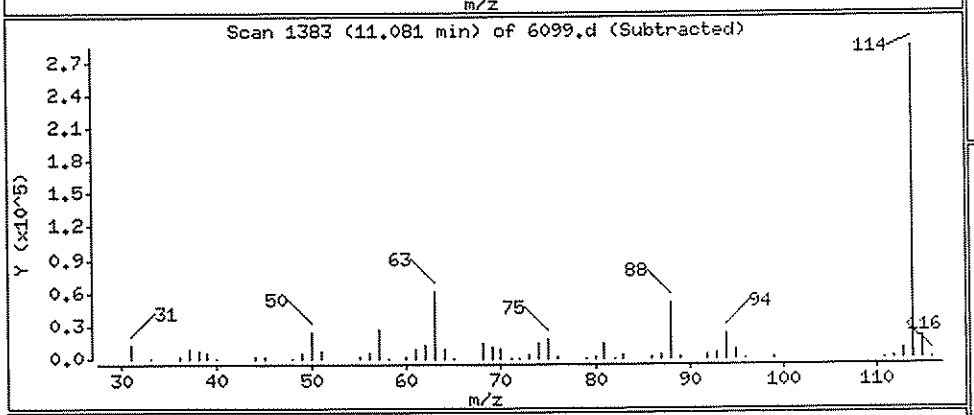
Purge Volume: 500.0 | Operator: 7126

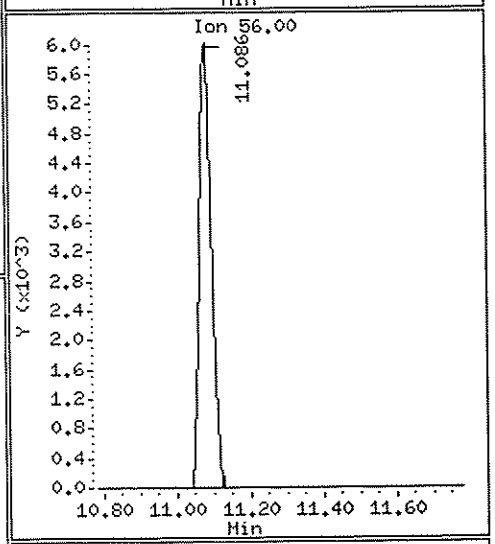
Column phase: Rtx-5 | Column diameter: 0.32

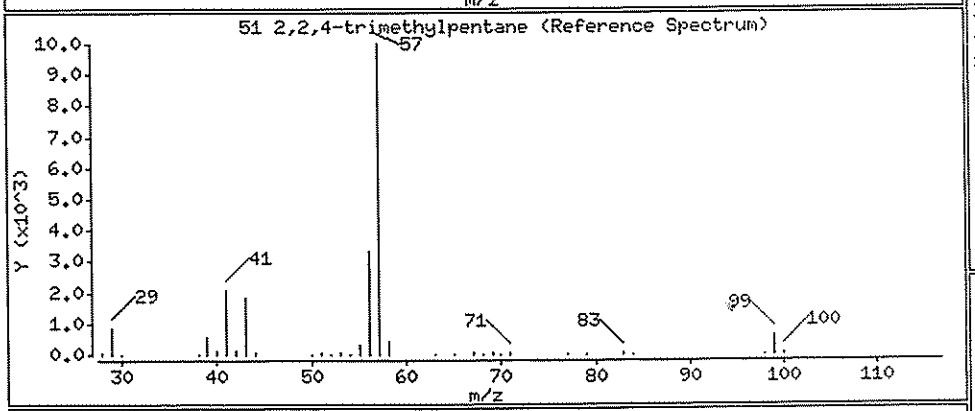
51 2,2,4-trimethylpentane | Concentration: 0.2185 ppb(v/v)

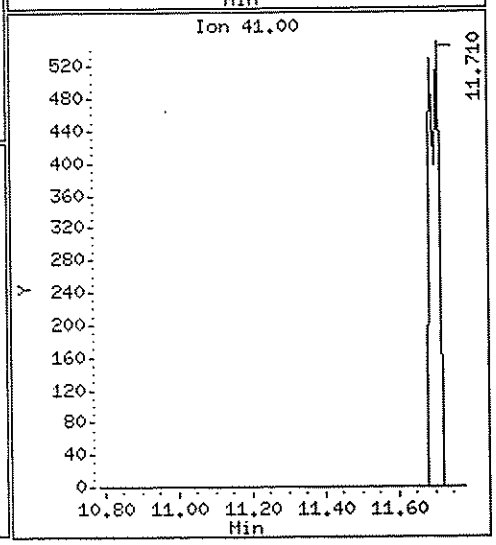


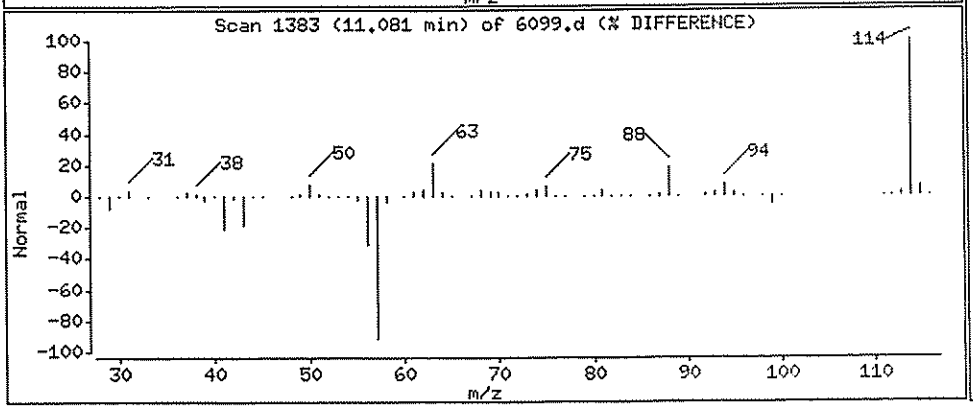












AKRF-White Plains

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H7D180000 - 057C **Work Order #** JT4LA1AC **Matrix.....:** AIR

Date Received..: 4/10/07
Prep Date.....: 4/17/07 **Analysis Date..** 4/17/07
Prep Batch #.....: 7108057
Dilution Factor.: 1 **Method.....** TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
Benzene	10.0	7.99	32	26	80	70 - 130
Toluene	10.0	7.88	38	30	79	70 - 130
Trichloroethene	10.0	9.18	54	49	92	70 - 130
1,1-Dichloroethene	10.0	10.2	40	41	102	70 - 130
Chlorobenzene	10.0	8.58	46	40	86	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
1,2-Dichloroethane-d4	101	70 - 130
Toluene-d8	100	70 - 130
4-Bromofluorobenzene	102	70 - 130

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

TO-14 _rev5.rpt version 5.0.103 10/12/2006

Data File: /var/chem/gcms/mj.i/J041707.b/jccvd17.d
Report Date: 19-Apr-2007 17:23

STL Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J041707.b/jccvd17.d
Lab Smp Id: JT4LA1AC Client Smp ID: STD 4
Inj Date : 17-APR-2007 10:04
Operator : 7126 Inst ID: mj.i
Smp Info : JT4LA1AC,,3,5,,STD 4
Misc Info : J041707,TO15,,,,40 ML CX1510
Comment :
Method : /var/chem/gcms/mj.i/J041707.b/TO15.m
Meth Date : 18-Apr-2007 12:59 layk Quant Type: ISTD
Cal Date : 16-MAR-2007 09:31 Cal File: jicc169.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.894	8.894	(1.000)	174498	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.089	11.089	(1.000)	650922	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.806	15.806	(1.000)	597966	4.00000	4.000
$ 4 1,2-Dichloroethane-d4	67	9.911	9.911	(0.894)	167060	4.03335	10.08
$ 5 Toluene-d8	98	13.725	13.725	(0.868)	582756	4.00478	10.01
$ 6 4-Bromofluorobenzene	95	17.442	17.442	(1.103)	492294	4.07998	10.20
7 Chlorodifluoromethane	51	3.713	3.713	(0.418)	527357	4.63471	11.59
8 Dichlorodifluoromethane	85	3.773	3.773	(0.424)	992775	4.74369	11.86
9 Propene	41	3.724	3.724	(0.419)	215559	4.60054	11.50
10 Chloromethane	52	3.961	3.961	(0.445)	74775	4.28133	10.70
11 1,2-Dichlorotetrafluoroethane	135	3.961	3.961	(0.445)	529113	4.92762	12.32
12 Methanol	31	4.101	4.101	(0.461)	51354	3.61370	9.034
13 Vinyl Chloride	62	4.133	4.133	(0.465)	267358	4.81912	12.05
14 n-Butane	43	4.219	4.219	(0.474)	359781	4.60340	11.51
15 1,3-Butadiene	54	4.219	4.219	(0.474)	172452	4.85439	12.14

Data File: /var/chem/gcms/mj.i/J041707.b/jccvd17.d
Report Date: 19-Apr-2007 17:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
16 Bromomethane	94	4.547	4.547	(0.511)	308921	4.59590	11.49
17 Chloroethane	64	4.687	4.687	(0.527)	135988	4.65639	11.64
18 Vinyl Bromide	106	4.988	4.988	(0.561)	288996	4.43824	11.10
19 2-methyl butane	43	5.037	5.037	(0.566)	297740	4.33288	10.83
20 Trichlorofluoromethane	101	5.263	5.263	(0.592)	975775	4.68382	11.71
21 Acrolein	56	5.295	5.295	(0.595)	41793	2.93839	7.346
22 Acetonitrile	40	5.365	5.365	(0.603)	45933	2.48212	6.205(R)
23 Acetone	58	5.435	5.435	(0.611)	53479	3.36555	8.414
24 Pentane	57	5.478	5.478	(0.616)	72644	4.40489	11.01
25 Isopropyl alcohol	45	5.505	5.505	(0.619)	259493	3.83861	9.596
26 Ethyl Ether	31	5.677	5.677	(0.638)	151425	3.00874	7.522
27 1,1-Dichloroethene	96	5.978	5.978	(0.672)	245621	4.09458	10.24
28 tert-butanol	59	6.107	6.107	(0.687)	366033	4.01367	10.03
29 Acrylonitrile	53	6.102	6.102	(0.686)	77577	3.00678	7.517
30 1,1,2-Trichlorotrifluoroethane	101	6.145	6.145	(0.691)	485358	4.04683	10.12
31 Methylene Chloride	84	6.328	6.328	(0.711)	192489	3.74468	9.362
32 3-Chloropropene	39	6.344	6.344	(0.713)	217001	3.48677	8.717
33 Carbon Disulfide	76	6.495	6.495	(0.730)	824966	4.47753	11.19
34 2,3-Dimethyl butane	43	7.059	7.059	(0.794)	503440	3.49600	8.740
35 trans-1,2-Dichloroethene	96	7.140	7.140	(0.803)	249183	3.86975	9.674
36 Methyl-t-Butyl Ether	73	7.318	7.318	(0.823)	385671	3.22392	8.060
37 1,1-Dichloroethane	63	7.571	7.571	(0.851)	385790	3.50498	8.762
38 Vinyl Acetate	43	7.694	7.694	(0.865)	277321	3.07792	7.695
39 Hexane	56	8.135	8.135	(0.915)	159715	3.56485	8.912
40 2-Butanone	72	8.195	8.195	(0.921)	55576	3.20843	8.021
41 cis 1,2-Dichloroethene	96	8.560	8.560	(0.962)	206335	3.42162	8.554
42 Ethyl acetate	43	8.802	8.802	(0.990)	246902	3.28791	8.220
43 Chloroform	83	8.910	8.910	(1.002)	485707	3.61180	9.029
44 Tetrahydrofuran	42	9.416	9.416	(1.059)	127301	3.17927	7.948
45 1,1,1-Trichloroethane	97	9.937	9.937	(1.117)	543371	3.61816	9.045
46 1,2-Dichloroethane	62	10.061	10.061	(0.907)	333447	3.65303	9.132
47 Cyclohexane	69	10.529	10.529	(0.950)	107100	3.81745	9.544
48 1-Butanol	31	10.562	10.562	(0.952)	73341	3.50874	8.772
49 Benzene	78	10.540	10.540	(0.950)	501004	3.19452	7.986
50 Carbon Tetrachloride	117	10.556	10.556	(1.187)	605975	3.84964	9.624
51 2,2,4-trimethylpentane	57	11.282	11.282	(1.017)	866342	3.34877	8.372
52 Heptane	43	11.654	11.654	(1.051)	320979	3.46205	8.655
53 1,2-Dichloropropane	63	11.767	11.767	(1.061)	166727	3.48849	8.721
54 Trichloroethene	130	11.793	11.793	(1.064)	337113	3.67228	9.181
55 Dibromomethane	93	11.885	11.885	(1.072)	282931	3.47262	8.682
56 Bromodichloromethane	83	12.030	12.030	(1.085)	535743	3.91053	9.776
57 1,4-dioxane	88	12.111	12.111	(1.092)	97148	4.08248	10.21
58 Methyl Methacrylate	41	12.148	12.148	(1.096)	167475	3.44659	8.616
59 4-Methyl-2-pentanone	43	13.009	13.009	(1.173)	287779	3.89691	9.742
60 cis-1,3-Dichloropropene	75	13.031	13.031	(1.175)	303672	3.56730	8.918
61 trans-1,3-Dichloropropene	75	13.725	13.725	(0.868)	304659	3.35144	8.379
62 Toluene	91	13.838	13.838	(0.875)	490771	3.15250	7.881

Data File: /var/chem/gcms/mj.i/J041707.b/jccvd17.d
Report Date: 19-Apr-2007 17:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
63 1,1,2-Trichloroethane	97	13.929	13.929	(0.881)	194873	3.46433	8.661
64 2-Hexanone	58	14.338	14.338	(0.907)	136393	3.88674	9.717
65 Octane	85	14.510	14.510	(0.918)	208852	3.68255	9.206
66 Dibromochloromethane	129	14.623	14.623	(0.925)	481154	3.93597	9.840
67 1,2-Dibromoethane	107	14.919	14.919	(0.944)	333047	3.47931	8.698
68 Tetrachloroethene	129	14.978	14.978	(0.948)	254775	3.47351	8.684
69 Chlorobenzene	112	15.855	15.855	(1.003)	436516	3.43365	8.584
70 Ethylbenzene	91	16.140	16.140	(1.021)	584899	3.17296	7.932
71 m&p-Xylene	91	16.296	16.296	(1.031)	899698	6.30785	15.77
72 Nonane	57	16.699	16.699	(1.056)	361772	3.71249	9.281
73 Bromoform	173	16.759	16.759	(1.060)	434705	3.81075	9.527
74 Styrene	104	16.764	16.764	(1.061)	309080	3.30937	8.273
75 o-Xylene	91	16.823	16.823	(1.064)	477551	3.08013	7.700
76 1,1,2,2-Tetrachloroethane	83	17.151	17.151	(1.085)	353059	3.22936	8.073
77 1,2,3-Trichloropropane	110	17.313	17.313	(1.095)	96956	3.24091	8.102
78 Cumene	105	17.404	17.404	(1.101)	640727	3.07145	7.679
79 a-Pinene	93	17.630	17.630	(1.115)	587178	3.26722	8.168
80 n-Propylbenzene	120	17.942	17.942	(1.135)	168479	3.24806	8.120
81 Camphene	93	17.958	17.958	(1.136)	351992	3.23315	8.083
82 2-chlorotoluene	126	17.991	17.991	(1.138)	175927	3.26786	8.170
83 4-Ethyltoluene	105	18.087	18.087	(1.144)	630504	3.15795	7.895
84 1,3,5-Trimethylbenzene	120	18.163	18.163	(1.149)	236680	3.20915	8.023
85 b-Pinene	93	18.416	18.416	(1.165)	423212	3.04265	7.607
86 Alpha-Methylstyrene	118	18.389	18.389	(1.163)	242711	3.28161	8.204
87 Decane	57	18.432	18.432	(1.166)	355414	3.34061	8.352
88 1,2,4-Trimethylbenzene	105	18.593	18.593	(1.176)	493700	3.18235	7.956
89 tert-butylbenzene	119	18.582	18.582	(1.176)	536422	3.09565	7.739
90 sec-butylbenzene	105	18.846	18.846	(1.192)	715097	3.07099	7.677
91 1,3-Dichlorobenzene	146	18.867	18.867	(1.194)	353325	3.15443	7.886
92 Benzyl Chloride	91	18.943	18.943	(1.198)	448555	3.16340	7.908
93 1,4-Dichlorobenzene	146	18.953	18.953	(1.199)	340664	3.11995	7.800
94 p-Cymene	119	19.007	19.007	(1.202)	606109	3.17115	7.928
95 d-Limonene	68	19.083	19.083	(1.207)	214533	2.86955	7.174
96 1,2-Dichlorobenzene	146	19.314	19.314	(1.222)	311395	2.95811	7.395
97 n-butylbenzene	91	19.438	19.438	(1.230)	546219	3.15754	7.894
98 Undecane	57	19.733	19.733	(1.248)	297357	2.78059	6.951(R)
99 4-tert-Butyltoluene	133	19.873	19.873	(1.257)	533439	3.03299	7.582
100 Camphor	95	20.664	20.664	(1.307)	120831	2.13553	5.339(R)
101 Dodecane	57	20.793	20.793	(1.315)	276233	2.95644	7.391
102 1,2,4-Trichlorobenzene	180	21.014	21.014	(1.329)	160450	2.52665	6.317(R)
103 Napthalene	128	21.159	21.159	(1.339)	347943	2.90921	7.273
104 Hexachlorobutadiene	225	21.374	21.374	(1.352)	247324	2.66160	6.654(R)
105 1,2,3-trichlorobenzene	180	21.455	21.455	(1.357)	149958	2.46404	6.160(R)

Data File: /var/chem/gcms/mj.i/J041707.b/jccvd17.d
Report Date: 19-Apr-2007 17:23

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mj.i/J041707.b/jccvd17.d
Report Date: 19-Apr-2007 17:23

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jccvd17.d
Lab Smp Id: JT4LA1AC
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J041707.b/TO15.m
Misc Info: J041707,TO15,,,,40 ML CX1510

Calibration Date: 17-APR-2007
Calibration Time: 10:04
Client Smp ID: STD 4
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	174498	103826	245170	174498	0.00
2 1,4-Difluorobenze	650922	387299	914545	650922	0.00
3 Chlorobenzene-d5	597966	355790	840142	597966	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.89	8.56	9.22	8.89	0.00
2 1,4-Difluorobenze	11.09	10.76	11.42	11.09	0.00
3 Chlorobenzene-d5	15.81	15.48	16.14	15.81	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J041707.b/jccvd17.d
Report Date: 19-Apr-2007 17:23

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: JT4LA1AC
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: all.sub
Method File: /var/chem/gcms/mj.i/J041707.b/TO15.m
Misc Info: J041707,TO15,,,,40 ML CX1510

Client SDG: J041707
Fraction: OTHER
Client Smp ID: STD 4
Operator: 7126
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
7 Chlorodifluorometh	10.00	11.59	115.87	70-130
8 Dichlorodifluorome	10.00	11.86	118.59	70-130
9 Propene	10.00	11.50	115.01	70-130
11 1,2-Dichlorotetraf	10.00	12.32	123.19	70-130
10 Chloromethane	10.00	10.70	107.03	70-130
12 Methanol	10.00	9.034	90.34	70-130
13 Vinyl Chloride	10.00	12.05	120.48	70-130
14 n-Butane	10.00	11.51	115.09	70-130
15 1,3-Butadiene	10.00	12.14	121.36	70-130
16 Bromomethane	10.00	11.49	114.90	70-130
17 Chloroethane	10.00	11.64	116.41	70-130
18 Vinyl Bromide	10.00	11.10	110.96	70-130
19 2-methyl butane	10.00	10.83	108.32	70-130
20 Trichlorofluoromet	10.00	11.71	117.10	70-130
21 Acrolein	10.00	7.346	73.46	70-130
22 Acetonitrile	10.00	6.205	62.05*	70-130
23 Acetone	10.00	8.414	84.14	70-130
24 Pentane	10.00	11.01	110.12	70-130
25 Isopropyl alcohol	10.00	9.596	95.97	70-130
26 Ethyl Ether	10.00	7.522	75.22	70-130
27 1,1-Dichloroethene	10.00	10.24	102.36	70-130
29 Acrylonitrile	10.00	7.517	75.17	70-130
28 tert-butanol	10.00	10.03	100.34	70-130
30 1,1,2-Trichlorotri	10.00	10.12	101.17	70-130
31 Methylene Chloride	10.00	9.362	93.62	70-130
32 3-Chloropropene	10.00	8.717	87.17	70-130
33 Carbon Disulfide	10.00	11.19	111.94	70-130
34 2,3-Dimethyl butan	10.00	8.740	87.40	70-130
35 trans-1,2-Dichloro	10.00	9.674	96.74	70-130
36 Methyl-t-Butyl Eth	10.00	8.060	80.60	70-130
37 1,1-Dichloroethane	10.00	8.762	87.62	70-130
38 Vinyl Acetate	10.00	7.695	76.95	70-130
40 2-Butanone	10.00	8.021	80.21	70-130

Data File: /var/chem/gcms/mj.i/J041707.b/jccvd17.d
Report Date: 19-Apr-2007 17:23

SPIKE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
39 Hexane	10.00	8.912	89.12	70-130
41 cis 1,2-Dichloroet	10.00	8.554	85.54	70-130
42 Ethyl acetate	10.00	8.220	82.20	70-130
43 Chloroform	10.00	9.029	90.29	70-130
44 Tetrahydrofuran	10.00	7.948	79.48	70-130
45 1,1,1-Trichloroeth	10.00	9.045	90.45	70-130
46 1,2-Dichloroethane	10.00	9.132	91.33	70-130
48 1-Butanol	10.00	8.772	87.72	70-130
47 Cyclohexane	10.00	9.544	95.44	70-130
49 Benzene	10.00	7.986	79.86	70-130
50 Carbon Tetrachlori	10.00	9.624	96.24	70-130
51 2,2,4-trimethylpen	10.00	8.372	83.72	70-130
52 Heptane	10.00	8.655	86.55	70-130
53 1,2-Dichloropropan	10.00	8.721	87.21	70-130
54 Trichloroethene	10.00	9.181	91.81	70-130
55 Dibromomethane	10.00	8.682	86.82	70-130
56 Bromodichlorometha	10.00	9.776	97.76	70-130
57 1,4-dioxane	10.00	10.21	102.06	70-130
58 Methyl Methacrylat	10.00	8.616	86.16	70-130
59 4-Methyl-2-pentano	10.00	9.742	97.42	70-130
60 cis-1,3-Dichloropr	10.00	8.918	89.18	70-130
61 trans-1,3-Dichloro	10.00	8.379	83.79	70-130
62 Toluene	10.00	7.881	78.81	70-130
63 1,1,2-Trichloroeth	10.00	8.661	86.61	70-130
64 2-Hexanone	10.00	9.717	97.17	70-130
65 Octane	10.00	9.206	92.06	70-130
66 Dibromochlorometha	10.00	9.840	98.40	70-130
67 1,2-Dibromoethane	10.00	8.698	86.98	70-130
68 Tetrachloroethene	10.00	8.684	86.84	70-130
69 Chlorobenzene	10.00	8.584	85.84	70-130
70 Ethylbenzene	10.00	7.932	79.32	70-130
71 m&p-Xylene	20.00	15.77	78.85	70-130
72 Nonane	10.00	9.281	92.81	70-130
73 Bromoform	10.00	9.527	95.27	70-130
74 Styrene	10.00	8.273	82.73	70-130
75 o-Xylene	10.00	7.700	77.00	70-130
76 1,1,2,2-Tetrachlor	10.00	8.073	80.73	70-130
77 1,2,3-Trichloropro	10.00	8.102	81.02	70-130
78 Cumene	10.00	7.679	76.79	70-130
79 a-Pinene	10.00	8.168	81.68	70-130
80 n-Propylbenzene	10.00	8.120	81.20	70-130
81 Camphene	10.00	8.083	80.83	70-130
82 2-chlorotoluene	10.00	8.170	81.70	70-130
83 4-Ethyltoluene	10.00	7.895	78.95	70-130
84 1,3,5-Trimethylben	10.00	8.023	80.23	70-130
86 Alpha-Methylstyren	10.00	8.204	82.04	70-130
85 b-Pinene	10.00	7.607	76.07	70-130

Data File: /var/chem/gcms/mj.i/J041707.b/jccvd17.d
Report Date: 19-Apr-2007 17:23

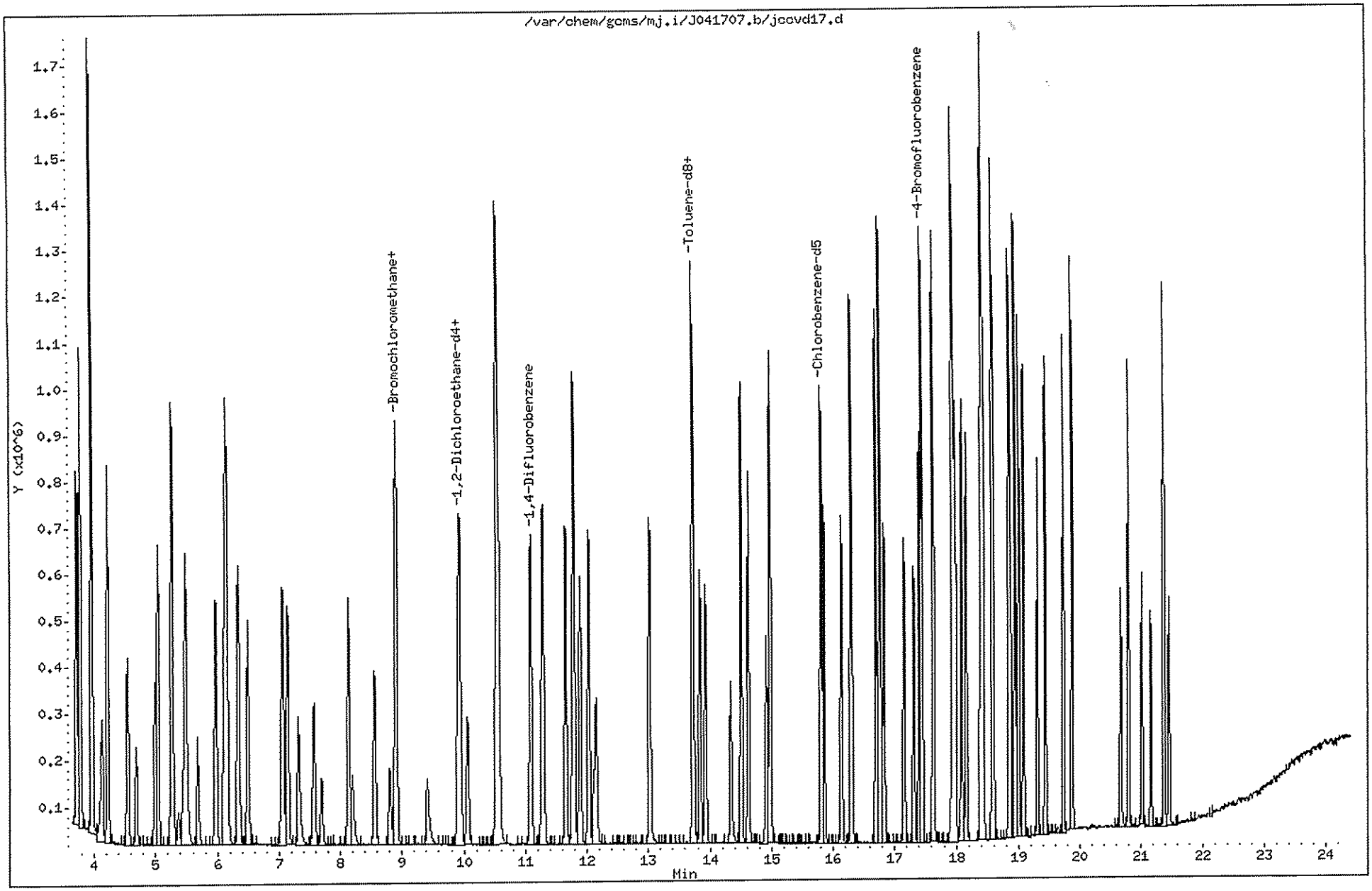
SPIKE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
87 Decane	10.00	8.352	83.52	70-130
88 1,2,4-Trimethylben	10.00	7.956	79.56	70-130
89 tert-butylbenzene	10.00	7.739	77.39	70-130
90 sec-butylbenzene	10.00	7.677	76.77	70-130
91 1,3-Dichlorobenzen	10.00	7.886	78.86	70-130
93 1,4-Dichlorobenzen	10.00	7.800	78.00	70-130
92 Benzyl Chloride	10.00	7.908	79.09	70-130
94 p-Cymene	10.00	7.928	79.28	70-130
95 d-Limonene	10.00	7.174	71.74	70-130
96 1,2-Dichlorobenzen	10.00	7.395	73.95	70-130
97 n-butylbenzene	10.00	7.894	78.94	70-130
98 Undecane	10.00	6.951	69.51*	70-130
99 4-tert-Butyltoluen	10.00	7.582	75.82	70-130
100 Camphor	10.00	5.339	53.39*	70-130
101 Dodecane	10.00	7.391	73.91	70-130
102 1,2,4-Trichloroben	10.00	6.317	63.17*	70-130
103 Napthalene	10.00	7.273	72.73	70-130
104 Hexachlorobutadien	10.00	6.654	66.54*	70-130
105 1,2,3-trichloroben	10.00	6.160	61.60*	70-130

SURROGATE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	10.00	10.08	100.83	70-130
$ 5 Toluene-d8	10.00	10.01	100.12	70-130
$ 6 4-Bromofluorobenze	10.00	10.20	102.00	70-130

Data File: /var/chem/gcms/mj.i/J041707.b/jccvd17.d
Date : 17-APR-2007 10:04
Client ID: STD 4
Sample Info: JT4LA1AC,,3,5,,STD 4
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mj.i

Operator: 7126
Column diameter: 0.32



Miscellaneous Data

STL Knoxville GC/MS Air Data Review / Narrative Checklist

Method: TO-14 and TO-15 - KNOX-MS-0001, Rev 9

LOT/Project # H7D1102 451

Instrument:	MJ	
Scanned File:	J031607I	
	J041607	
	J041707	

Review Items **A. Tune / Continuing Calibration**	N/A	Yes	No	Why is data reportable?	2nd ➡
1. Were all samples injected within 24 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	**N/A**	**Yes**	**No**	**Why is data reportable?**	
1. Were all special project requirements met?		✓			✓
2. Were dilution factors/can prep information verified?		✓			✓
3. Have the can number & lab ID been verified between the analysis log & sample prep log?		✓			✓
4. Were samples received in cans?		✓		☐ [Tedlar1] Samples rec'd on (date) in Tedlar bags & ana by TO-14 (TO-15) within 72 hours from sampling. ☐ [Tedlar2] Samples rec'd on (date) in Tedlar bags & transferred into Summa canisters within 72 hours.	✓
5. Sample analyses done within analytical holding time (HT)? *If no, list samples:* _____		✓		☐ [ht2] Client requested analysis after HT expired. ☐ Other: _____	✓
6. Are surrogates and internal standards within QC limits? (70-130% R for surr.; 60-140%R from CCAL for IS) *If no, list samples/reason (e.g.,* sur1*):* Sample / Reason / Sample / Reason		✓		☐ [sur1] DUP surr. %R demonstrated same effect. ☐ [sur2] Reanalysis demonstrated same effect. ☐ **[sur5] At client's request, data was flagged as estimated & released without further investigation.*** ☐ **[is1] Per client, reanalysis was not performed *** ☐ [is2] Reanalysis confirmed a matrix effect. ☐ Obvious matrix effect	✓
7. Were all positive results and false negatives on quan report verified to be correct in LIMS?		✓			✓
8. For dilutions, is highest concentration hit ≥ 20% cal range and not above calibration range? *List samples and reason (e.g.,* elev1*):* Sample / Reason / Sample / Reason		✓		☐ [elev1] Elevated RL for (ANALYTE) due to sample matrix interferences. ☐ [elev3] Elevated RLs for all analytes due to difficult sample matrix. ☐ [elev4] Elevated RLs based on screening ☐ [elev5] Elevated RLs for all analytes due to presence of non-target compounds.	✓
9. 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
10. Have alternate hits/manual integrations been verified as correct?	✓				NA
C. Preparation QC					
1. System blank run every 24 hours prior to samples?		✓			✓
2. System blank surrogate recoveries within QC limits (70-130% R) ?		✓		☐ **[mb1] All sample surrogates OK and there is no analyte >RL in samples associated with blank.***	✓
3. Are all analytes present in the system blank < RL? *If no, list blank ID:* _____		✓		☐ **[mb3] No analyte > RL in associated samples.*** ☐ **[mb4] Sample results > 20x higher than blank.**	✓
4. DUP done per 20 samples and are all RPDs within limits? (for target analytes >5x RL, <25% RPD; no criteria for methanol and n-butanol) *If no, list DUP ID:* _____		✓			✓
5. Are all LCS analytes on final report within limits?		✓	✓	☑ [LCS6] Flagged out but within SOP limits. LCS ID: J12KK1AC	✓
D. Other					
1. Final report acceptable? (Results correct, RLs calculated correctly, units correct, surrogate %R correct, appropriate flags used, dilution factor correct, analysis dates correct.)		✓			✓
2. Are all nonconformances documented appropriately and copy included with deliverable?	✓				NA
3. Were the standards scanned properly?		✓			✓
4. Was a narrative prepared and all deviations noted?		✓			✓
5. TO14A Autotext included in narrative (for TO14A samples only).	✓			☐ [TO14]	NA
6. All target analytes on c.cal >30%D but <40%D noted in the narrative?		✓		☒ [ccal] The ccal exhibited a %D ICAL >30% but ≤40% for the following analytes: benzene (4-16-07)	✓

Analyst: UMA	**Date:** 4-19-07	**2nd Level Reviewer:**	**Date:** 04/20/07
Comments:		**Comments:**	

* Such action must be taken in consultation with client.

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/17/07
Time: 10:06:52

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: 7107200 *
****

PREP DATE: 4/16/07
COMP DATE: 4/17/07

Reviewer/Date: _____ / 0/00/00

Volatile Organics by GC/MS TO-15 low-level ppbv/v
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	4/20/07	H7D110232-001 **JTPG3-1-AD**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/20/07	H7D110232-002 **JTPHA-1-AD**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/20/07	H7D110232-003 **JTPHC-1-AD**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/20/07	H7D110232-004 **JTPHF-1-AD**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/20/07	H7D110232-010 **JTPJE-1-AD**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/20/07	H7D110232-011 **JTPJG-1-AD**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/20/07	H7D110232-012 **JTPJH-1-AD**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/17/07
Time: 10:06:52

QC BATCH: 7107200

PREP DATE: 4/16/07
COMP DATE: 4/17/07

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/20/07	H7D110232-013 **JTPJM-1-AD**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/20/07	H7D110232-014 **JTPJR-1-AD**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	H7D170000-200 **JT2KK-1-AAB**		88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	H7D170000-200 **JT2KK-1-ACC**		88	7M	AIR	**40.00mL** 40.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD
‡

NUMBER OF WORK ORDERS IN BATCH: 11

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/18/07
Time: 5:50:44

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

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

Extractionist: _____

Concentrationist: _____

Reviewer/Date: _____ / 0/00/00

****
* QC BATCH: 7108057 *
****

PREP DATE: 4/17/07
COMP DATE: 4/18/07

Volatile Organics by GC/MS TO-15 low-level ppbv/v
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/20/07	H7D110232-005 **JTPHX-1-AD**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/20/07	H7D110232-006 **JTPH1-1-AD**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/20/07	H7D110232-007 **JTPH5-1-AD**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/20/07	H7D110232-008 **JTPH7-1-AD**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/20/07	H7D110232-009 **JTPH9-1-AD**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	H7D180000-057 **JT4LA-1-AAB**		88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	H7D180000-057 **JT4LA-1-ACC**		88	7M	AIR	**40.00mL** 40.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)

NUMBER OF WORK ORDERS IN BATCH: 7

STL-Knoxville Initial Canister Dilution

Analyst: KBL

Barometer: 30.03 inches Hg at sea level
732.662 mm Hg at Knoxville

Date: 4/16/2007

Lot #	W/O #	P init inches	P init Abs,mm	P final psig	P final Abs,mm	Dilution Factor	
H7D110232	JTP HF	- 3.2	651.4	16.0	1560.1	2.40	(HF,DF*200=480)

1 psig = 2.036 inch Hg
Pinit(Abs,mm)=(Pinit(inch)*25.4mm/inch)+Pbar(mm)
Pfinal(Abs,mm)=(Pfinal(psig)*2.036 (inch Hg/psig)*25.4 (mm/inch))+Pbar(mm)
dilution factor = Pfinal(Abs,mm)/Pinit(Abs,mm)
barometer: correction factor for 300 m altitude of Knoxville = 30.1 from Handbook of Chem and Physics
pressure in mm Hg = [(pressure at sea level in inches*25.4 mm/in) - 30.1]

#cjcandilr4.xls
rev.04

STL-Knoxville Serial Dilution

Analyst: KBL

Barometer: 30.03 inches Hg at sea level
732.662 mm Hg at Knoxville

Date: 4/16/2007

Lot #	W/O #	Initial Volume (ml)	P final (psig)	P final Abs,mm	Dilution Factor (Serial)	Dilution Factor **(Total)**	
H7D110232	JTP HF	20	1.2	794.7	325.4	***779.4***	(HF) (*2.395)

1 psig = 2.036 inch Hg
Pinit(Abs,mm)=(Pinit(inch)*25.4mm/inch)+Pbar(mm)
Pfinal(Abs,mm)=(Pfinal(psig)*2.036 (inch Hg/psig)*25.4 (mm/inch))+Pbar(mm)
dilution factor = Pfinal(Abs,mm)/[(initial vol.)(Pbar(mmHg))/6000]
barometer: correction factor for 300 m altitude of Knoxville = 30.1 from Handbook of Chem and Physics
pressure in mm Hg = [(pressure at sea level in inches*25.4 mm/in) - 30.1]

#cjcandilr4.xls
rev.04

STL Knoxville ---- TO-14/TO-15 Canister Dilution Log

Initial Can Pressure								Subsequent Dilution											
Analyst/Date	Tedlar Bag Time	Pbarr (in)	Lot #	Work Order #	Can #	Pres. upon receipt (- in. or + psig)	Adj. Initial Pres. (- in. or + psig)	Analyst/Date	I - S	Pbarr (in)	Initial Pres. P_i (in)	Final Pres. P_f (psig)	First In-can Final Pres. P_f (psig)	Second In-can Final Pres. P_f (psig)	Third In-can Final Pres. P_f (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. P_f (psig)	Comments
DDF 4-11-07	NA	29.73	H7D110139	JTNQN	1115	-23.6	+1.0												6075
				QX	1119	+6.9	—												
				Q3	12492	+1.2													
				Q4	1133	-0.9													6068
DDF 4-12-07	NA	29.80	H7R110232	JTPG3	29165	-3.8	—												6079
				HA	6591	-3.3				KM 4-16-07									
				HC	1491	-6.5				30.03									6080
				HF	1519	-3.2		KM 4-16-07	S/S	~~29.80~~ ~~3.2~~ KM 4-16-07	-3.2	16.0				12738	20	1.2	6079
				HX	6679	-4.1													
				H1	0040	-3.2													
				H5	1425	-3.1													
				H7	11345	-3.4													
				H9	12836	-3.8													
				JE	12587	-3.6													
				JG	6574	-5.7													6081
				JH	1407	-5.2													6079
				JM	04333	-2.9													6080
				JR	12835	-2.3													6080
	NA	29.80	H7R110160	JTN3F	12175	-0.8	—												6078
				3N	0151	-18.6	+0.5												
				3Q	6640	-1.7	—												

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Lake Wind Advisory [State warnings for TN]

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Right Now for
Knoxville, TN (37921)
Save Location [English | Metric]

Weather for your life
Vacation & Travel Guide

Partly Cloudy

48°F
Feels Like 44°F

Updated Apr 16 09:45 a.m. ET

UV Index:	2 Low
Wind:	From WSW at 9 mph
Humidity:	56%
Pressure:	30.03 in. ↓
Dew Point:	33°F
Visibility:	10.0 miles

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Sample Receipt Documentation

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

"PASSED RAD SCREEN"

Canister Samples Chain of Custody Record

H7D110232

SEVERN TRENT STL

Severn Trent Laboratories, Inc. (STL) assumes no liability with respect to the collection and shipment of these samples.

1 of 3 COCs

Client Contact Information
Company: AKRF
Address: 34 S Broadway
City/State/Zip White Plains NY 10601
Phone: 914-922-2382
FAX: 914 949-7559
Project Name: Magna Metals
Site:
PO # 40256

Project Manager: Brian Zieroff
Phone: 914-922-2382
Site Contact:
STL Contact:

Sampled By B Tepper

Analysis Turnaround Time
Standard (Specify)
Rush (Specify)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)		Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SV-11 (S.S)	4/5/07	9:34	4:34	30	3.5	K324	2165	X											
SV-11 (A.A)		8:05	4:07	30	4.5	K352	6591												
SV-10 (A.A)		8:12	4:12	28.5	7	K143	1491												
SV-12 (S.S)		8:37	4:38	30	3.5	K119	1519												
SV-12 (A.A)		10:15	5:15	30	5.5	K288	6679												
DUP (S.S)		9:01	5:06	30	4.5	K354	2040												

SV-1149

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

CUSTODY SEALS INTACT
RECEIVED AT AMBIENT TEMP
GKD 4-10-07

3 BOXES FEDX#
9303 5262 9443
9421
~~9432~~

Special Instructions/QC Requirements & Comments:
TCE - detection limit of 0.25 ug/m3

14 CANS / 14 FLOWS / CANS

Canisters Shipped by:	Date/Time:	Canisters Received by: Bryan Lawson 4-10-07 09:45
Samples Relinquished by: B Tepper	Date/Time: 4/6/07 12:00	Received by: Richard L Jones
Relinquished by: B Blockson 4/9/07 1600	Date/Time: 4/6/07 1730	Received by: Richard L Jones

Lab Use Only: Shipper Name: Received by: Condition:

H7D110232

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

"PASSED RAD SCREEN"

Canister Samples Chain of Custody Record

SEVERN TRENT STL

Severn Trent Laboratories, Inc. (STL) assumes no liability with respect to the collection and shipment of these samples.

2 of 3 COCs

Client Contact Information
Company: AKRF
Address: 34 S Broadway
City/State/Zip: White Plains NY 10601
Phone: 914-922-2352
FAX: 914-949-7558
Project Name: Magna Metals
Site:
PO# 40256

Project Manager:
Phone:
Site Contact:
STL Contact:

Sampled By

Analysis Turnaround Time
Standard (Specify)
Rush (Specify)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	[illegible]	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SV-13 (S.S)	4/5/07	9:01	5:06	28	3.5	K110	1425	X											
SV-13 (A.A)		8:53	5:10	30	5	K319	11345												
SV-14 (S.S)		9:28	5:28	30		K187	12836												
SV-14 (A.A)		9:13	5:20	30	4.5	K351	1287												
SV-15 (S.S)		9:50	4:56	30	8	K148	6574												
SV-15 (A.A)		9:28	4:55	30	6	K356	1407												

12587

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:
TCE - detection limit of 0.25 ug/m3

Canisters Shipped by:	Date/Time:	Canisters Received by: [illegible] 4-10-07 0915
Samples Relinquished by: B Tepper	Date/Time: 4/6/07 12:00	Received by: Richard L J Ma
Relinquished by: [illegible] 4/9/07 1600	Date/Time: 4/6/07 1730	Received by: Richard L J Ma

Lab Use Only — Shipper Name: — Opened by: — Condition:

H7D110232

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

"PASSED RAD SCREEN"

Canister Samples Chain of Custody Record

SEVERN TRENT STL

Severn Trent Laboratories, Inc. (STL) assumes no liability with respect to the collection and shipment of these samples.

Sampled by

3 of 3 COCs

Client Contact Information
Company: AKRF
Address: 38 S Broadway
City/State/Zip White Plains, NY 10601
Phone: 914-922-2352
FAX: 914-949-7559
Project Name: Magna Metals
Site:
PO # 40256

Project Manager: Brian Zieroff
Phone: 914-922-2382
Site Contact:
STL Contact:

Analysis Turnaround Time
Standard (Specify)
Rush (Specify)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)		Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
Outdoor 1 (A.A)	4/5/07	9:40	5:40	30	10.5	K223	0433	X											
Outdoor 2 (A.A)	4/5/07	10:09	6:10	29	5	K262	12833	X											

04333

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:
(Rad) 5 4/6/07
TCE detection limit of 0.25 ug/m3

Canisters Shipped by:	Date/Time:	Canisters Received by: [illegible] 4/10/07 09:45
Samples Relinquished by: B Teppet	Date/Time: 4/6/07 12:00	Received by: Richard L [illegible]
Relinquished by: [illegible] 4/9/07 1600	Date/Time: 4/6/07 1730	Received by: Richard L [illegible]

Lab Use Only — Storage Name: Opened by: Condition:

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: AKRF **Project:** _____ **Lot Number:** H7D110232

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:	1A, SV-12 (A.A), LABELED AS SV-11 (A.A), MATCHED BY CAN ID 1C, SV-14 (A.A), COC LIST CAN ID AS 1287, SHOULD BE 12587 1C, OUTDOOR 1 (A.A) COC LIST CAN ID AS 0433, SHOULD BE 04333
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 #: 74816 PM Instructions: _____

Sample Receiving Associate: [signature] Date: 4-10-07

QA026R18.doc, 1/30/06