
Air
Toxics LTD.
Laboratory Services Since 1989
Electronic Comprehensive Validation Package (eCVP)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-15

INVENTORY SHEET

Work Order #: 0809449

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	10/8/08
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0809449

Work Order Summary

CLIENT:	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746	**BILL TO:**	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746
PHONE:	631-760-9300 x 12	**P.O. #**	NR
FAX:		**PROJECT #**	061140 - 8 - 1703 BayShore OU1 Southern cell Air Monitorin
DATE RECEIVED:	09/20/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	10/06/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	AMS4 DW	Modified TO-15	7.5 "Hg	5 psi
02A	AMS-3 UW	Modified TO-15	6.5 "Hg	5 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 10/07/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/08, Expiration date: 06/30/09
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0809449

Two 6 Liter Summa Canister samples were received on September 20, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	</= 30% Difference	</= 30% Difference; Compounds exceeding this criterion and associated data are flagged and narrated.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

The Chain of Custody (COC) information for sample AMS4 DW did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
AMS4 DW	0809449-01A	9/19/2008	9/20/2008	NA	14	10/ 3/2008	NA	Good
AMS-3 UW	0809449-02A	9/19/2008	9/20/2008	NA	14	10/ 3/2008	NA	Good
Lab Blank	0809449-03A	NA	NA	NA	NA	10/ 3/2008	NA	Good
CCV	0809449-04A	NA	NA	NA	NA	10/ 2/2008	NA	Good
LCS	0809449-05A	NA	NA	NA	NA	10/ 2/2008	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: AMS4 DW

Lab ID#: 0809449-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.6	32	8.5	76
2-Butanone (Methyl Ethyl Ketone)	0.90	3.4	2.6	10
Ethanol	3.6	4.6	6.7	8.6

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Client Sample ID: AMS4 DW

Lab ID#: 0809449-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y100214**	**Date of Collection: 9/19/08**	
Dil. Factor:	**1.79**	**Date of Analysis: 10/3/08 05:37 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.90	Not Detected	4.4	Not Detected
Freon 114	0.90	Not Detected	6.2	Not Detected
Vinyl Chloride	0.90	Not Detected	2.3	Not Detected
Bromomethane	0.90	Not Detected	3.5	Not Detected
Chloroethane	0.90	Not Detected	2.4	Not Detected
Freon 11	0.90	Not Detected	5.0	Not Detected
1,1-Dichloroethene	0.90	Not Detected	3.5	Not Detected
Freon 113	0.90	Not Detected	6.8	Not Detected
Methylene Chloride	0.90	Not Detected	3.1	Not Detected
1,1-Dichloroethane	0.90	Not Detected	3.6	Not Detected
cis-1,2-Dichloroethene	0.90	Not Detected	3.5	Not Detected
Chloroform	0.90	Not Detected	4.4	Not Detected
1,1,1-Trichloroethane	0.90	Not Detected	4.9	Not Detected
Carbon Tetrachloride	0.90	Not Detected	5.6	Not Detected
Benzene	0.90	Not Detected	2.8	Not Detected
1,2-Dichloroethane	0.90	Not Detected	3.6	Not Detected
Trichloroethene	0.90	Not Detected	4.8	Not Detected
1,2-Dichloropropane	0.90	Not Detected	4.1	Not Detected
cis-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
Toluene	0.90	Not Detected	3.4	Not Detected
trans-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
1,1,2-Trichloroethane	0.90	Not Detected	4.9	Not Detected
Tetrachloroethene	0.90	Not Detected	6.1	Not Detected
1,2-Dibromoethane (EDB)	0.90	Not Detected	6.9	Not Detected
Chlorobenzene	0.90	Not Detected	4.1	Not Detected
Ethyl Benzene	0.90	Not Detected	3.9	Not Detected
m,p-Xylene	0.90	Not Detected	3.9	Not Detected
o-Xylene	0.90	Not Detected	3.9	Not Detected
Styrene	0.90	Not Detected	3.8	Not Detected
1,1,2,2-Tetrachloroethane	0.90	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	0.90	Not Detected	4.4	Not Detected
1,2,4-Trimethylbenzene	0.90	Not Detected	4.4	Not Detected
1,3-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
1,4-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
alpha-Chlorotoluene	0.90	Not Detected	4.6	Not Detected
1,2-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
1,3-Butadiene	0.90	Not Detected	2.0	Not Detected
Hexane	0.90	Not Detected	3.2	Not Detected
Cyclohexane	0.90	Not Detected	3.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS4 DW

Lab ID#: 0809449-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y100214**	**Date of Collection: 9/19/08**	
Dil. Factor:	**1.79**	**Date of Analysis: 10/3/08 05:37 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.90	Not Detected	3.7	Not Detected
Bromodichloromethane	0.90	Not Detected	6.0	Not Detected
Dibromochloromethane	0.90	Not Detected	7.6	Not Detected
Cumene	0.90	Not Detected	4.4	Not Detected
Propylbenzene	0.90	Not Detected	4.4	Not Detected
Chloromethane	3.6	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	3.6	Not Detected	26	Not Detected
Hexachlorobutadiene	3.6	Not Detected	38	Not Detected
Acetone	3.6	32	8.5	76
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
2-Propanol	3.6	Not Detected	8.8	Not Detected
trans-1,2-Dichloroethene	0.90	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	3.4	2.6	10
Tetrahydrofuran	0.90	Not Detected	2.6	Not Detected
1,4-Dioxane	3.6	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.90	Not Detected	3.7	Not Detected
2-Hexanone	3.6	Not Detected	15	Not Detected
Bromoform	0.90	Not Detected	9.2	Not Detected
4-Ethyltoluene	0.90	Not Detected	4.4	Not Detected
Ethanol	3.6	4.6	6.7	8.6
Methyl tert-butyl ether	0.90	Not Detected	3.2	Not Detected
3-Chloropropene	3.6	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.90	Not Detected	4.2	Not Detected
Naphthalene	3.6	Not Detected	19	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdy.i/02oct08.b/y100214.d
Lab Smp Id: 0809449-01A
Inj Date : 03-OCT-2008 05:37
Operator : dfm Inst ID: msdy.i
Smp Info : 200mL #5756
Misc Info : 7.5"Hg-5psi
Comment :
Method : /chem/msdy.i/02oct08.b/t14q930a.m
Meth Date : 06-Oct-2008 13:32 dbailey Quant Type: ISTD
Cal Date : 30-SEP-2008 23:37 Cal File: y093012.d
Als bottle: 1
Dil Factor: 1.79000
Integrator: HP RTE Compound Sublist: TO15N.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 80 Bromochloromethane					CAS #: 74-97-5		
15.142	15.142 (1.000)	130	297357	25.0000		80.00- 120.00	100.00
15.142	15.142 (1.000)	128	230398			28.48- 128.48	77.48
15.142	15.142 (1.000)	49	941772			273.11- 373.11	316.71
* 95 1,4-Difluorobenzene					CAS #: 540-36-3		
16.607	16.607 (1.000)	114	1546455	25.0000		80.00- 120.00	100.00
16.607	16.607 (1.000)	88	276624			0.00- 68.38	17.89
* 123 Chlorobenzene-d5					CAS #: 3114-55-4		
20.948	20.948 (1.000)	117	1560763	25.0000		80.00- 120.00	100.00
20.948	20.948 (1.000)	82	984494			13.32- 113.32	63.08
$ 89 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.027	16.027 (1.058)	65	719719	28.1318	28.132	80.00- 120.00	100.00
16.027	16.027 (1.058)	67	323097			0.00- 96.20	44.89
$ 111 Toluene-d8					CAS #: 2037-26-5		
18.874	18.875 (1.137)	98	1600568	24.9973	24.997	80.00- 120.00	100.00
18.874	18.847 (1.137)	70	202754			0.00- 62.19	12.67

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 111 Toluene-d8 (continued)							
18.874	18.875 (1.137)	100	1105602			18.83- 118.83	69.08
$ 135 Bromofluorobenzene					CAS #: 460-00-4		
22.497	22.497 (1.074)	174	838996	24.6627	24.663	80.00- 120.00	100.00
22.497	22.497 (1.074)	95	1377242			116.11- 216.11	164.15
22.497	22.497 (1.074)	176	801977			45.94- 145.94	95.59
39 Ethanol					CAS #: 64-17-5		
10.884	10.856 (0.719)	45	27915	2.56035	4.583	80.00- 120.00	100.00
10.884	10.856 (0.719)	46	12260			0.00- 91.71	43.92
10.911	10.856 (0.721)	43	6830			0.00- 70.36	24.47
47 Acetone					CAS #: 67-64-1		
11.686	11.686 (0.772)	58	251003	18.0060	32.231	80.00- 120.00	100.00
11.686	11.686 (0.772)	43	1018422			344.44- 444.44	405.74
75 2-Butanone					CAS #: 78-93-3		
14.782	14.783 (0.976)	72	21409	1.90296	3.406	80.00- 120.00	100.00
14.782	14.783 (0.976)	43	161316			703.08- 803.08	753.50
14.782	14.783 (0.976)	57	12858			4.23- 104.23	60.06

Report Date: 06-Oct-2008 14:04

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y100214.d
Lab Smp Id: 0809449-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msdy.i/02oct08.b/t14q930a.m
Misc Info: 7.5"Hg-5psi

Calibration Date: 02-OCT-2008
Calibration Time: 22:27

Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	345904	207542	484266	297357	-14.03
95 1,4-Difluorobenze	1781260	1068756	2493764	1546455	-13.18
123 Chlorobenzene-d5	1762193	1057316	2467070	1560763	-11.43

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	15.14	14.81	15.47	15.14	0.00
95 1,4-Difluorobenze	16.61	16.28	16.94	16.61	0.00
123 Chlorobenzene-d5	20.95	20.62	21.28	20.95	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.

Report Date: 06-Oct-2008 14:04

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 02oct08
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0809449-01A
Level: LOW Operator: dfm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /chem/msdy.i/02oct08.b/t14q930a.m
Misc Info: 7.5"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 89 1,2-Dichloroethane	25.000	28.132	112.53	70-130
$ 111 Toluene-d8	25.000	24.997	99.99	70-130
$ 135 Bromofluorobenzene	25.000	24.663	98.65	70-130

Data File: /chem/msdy.i/02oct08.b/y100214.d

Date : 03-OCT-2008 05:37

Client ID:

Sample Info: 200mL #5756

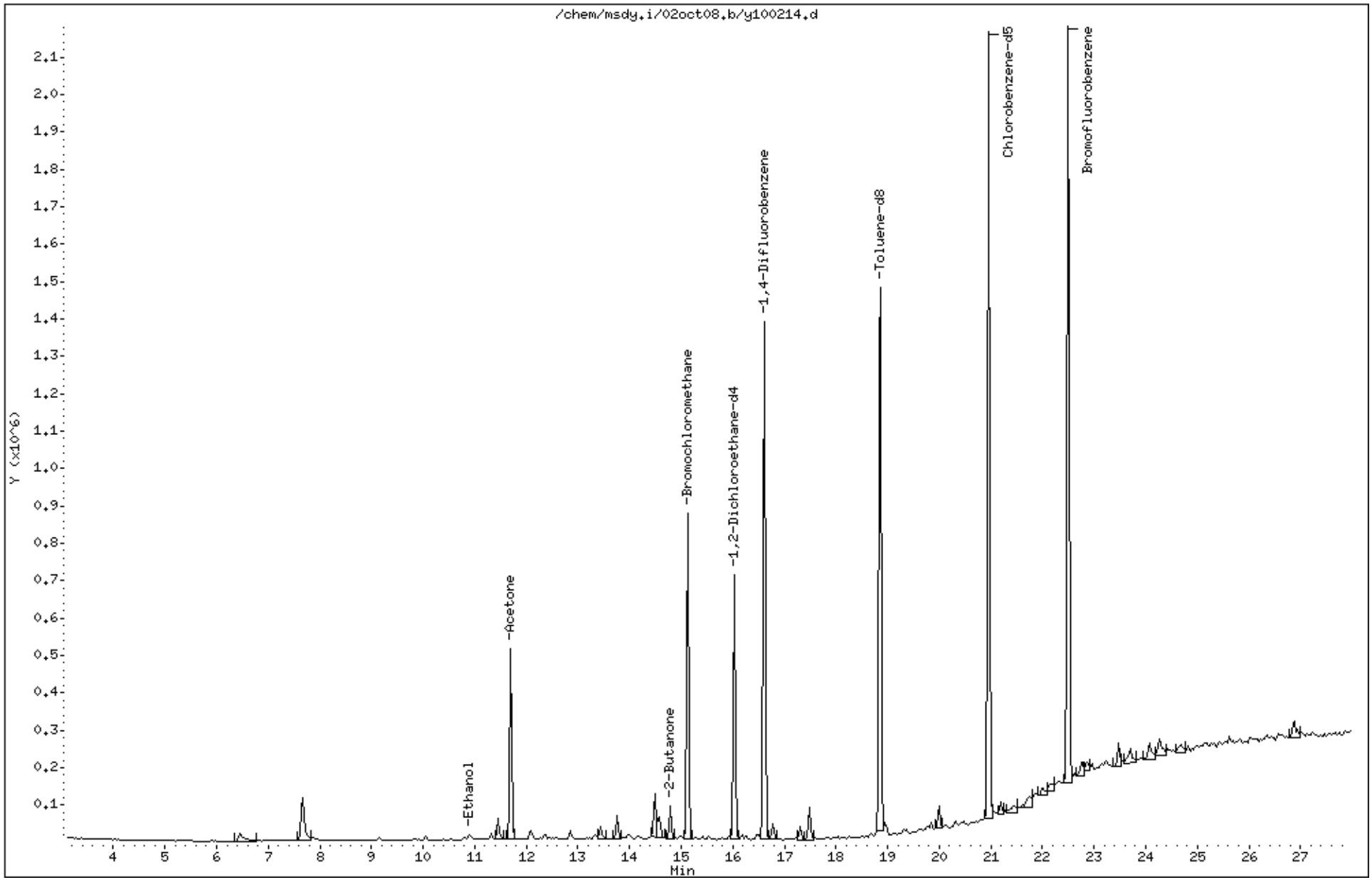
Column phase: RTx-624

Instrument: msdy.i

Operator: dfm

Column diameter: 0.53

0013



Data File: /chem/msdy.i/02oct08.b/y100214.d

Date : 03-OCT-2008 05:37

Client ID:

Instrument: msdy.i

Sample Info: 200mL #5756

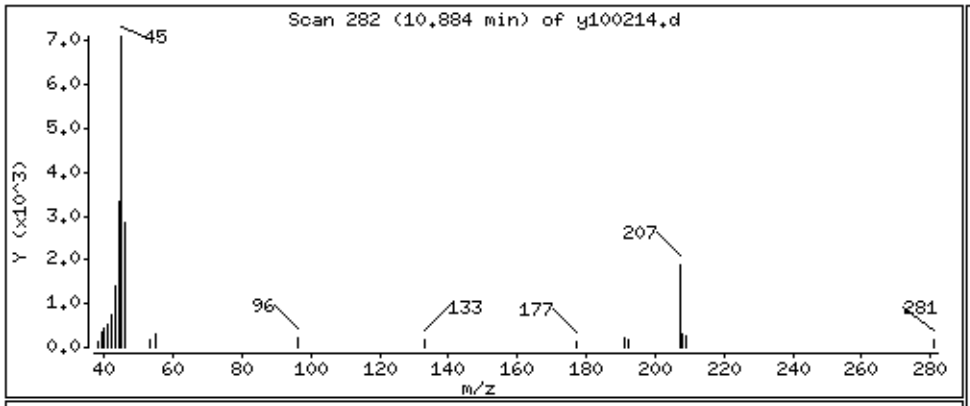
Operator: dfm

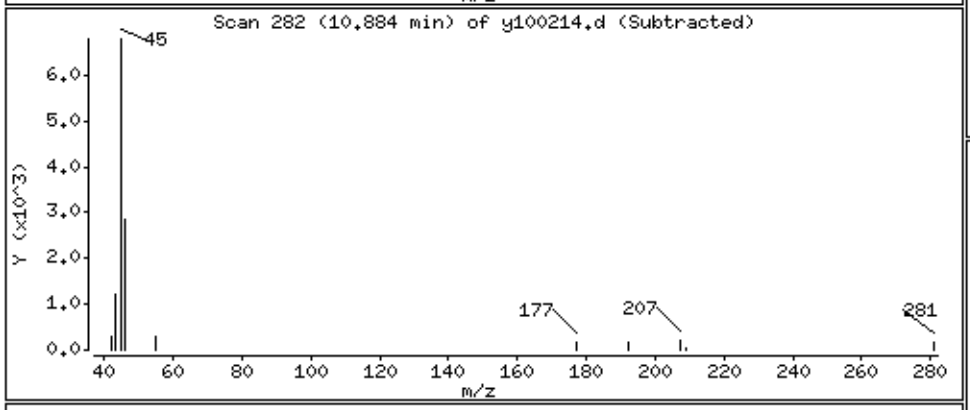
Column phase: RTx-624

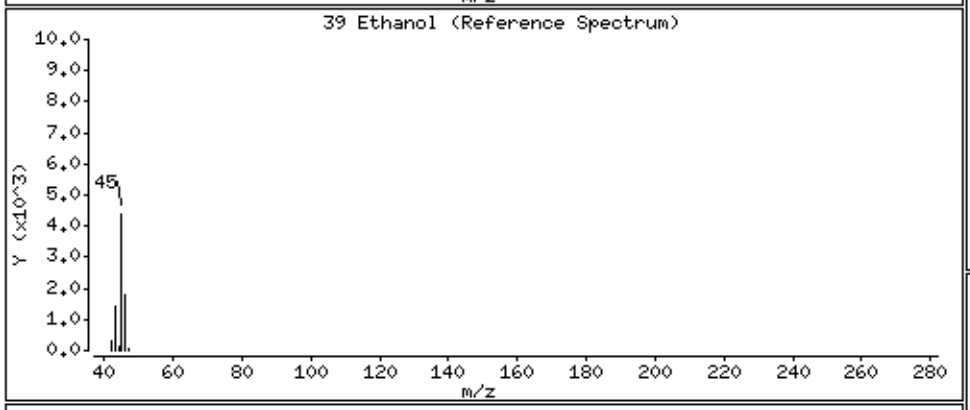
Column diameter: 0.53

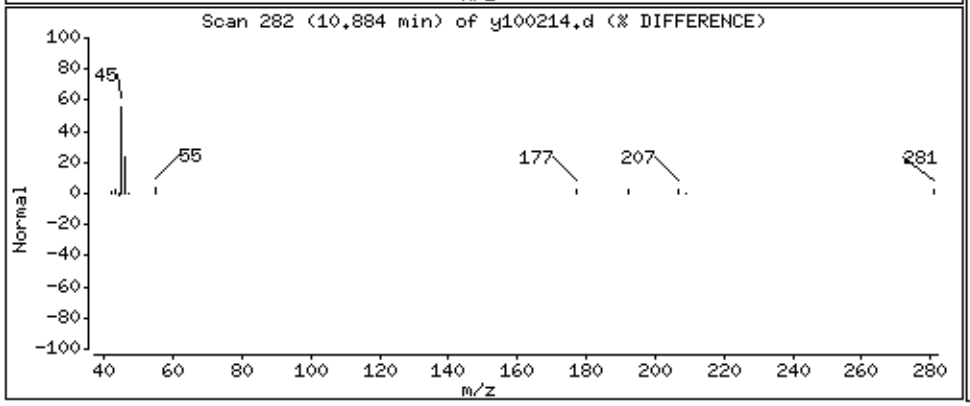
39 Ethanol

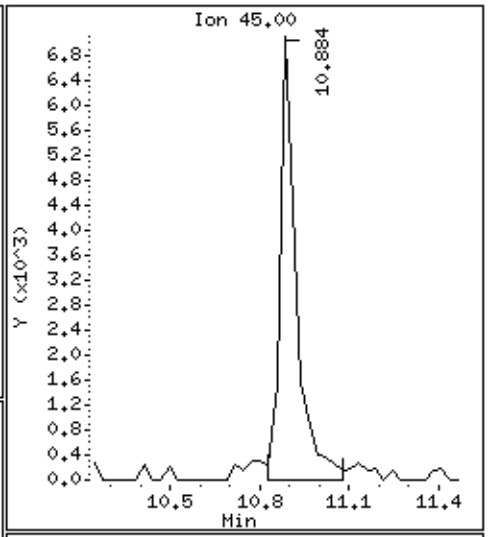
Concentration: 4.583 PPBV

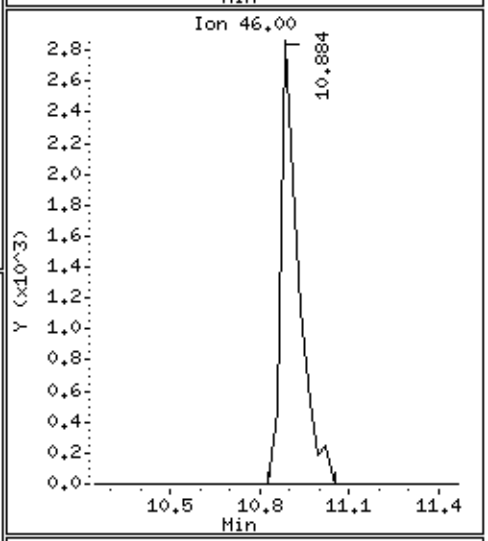


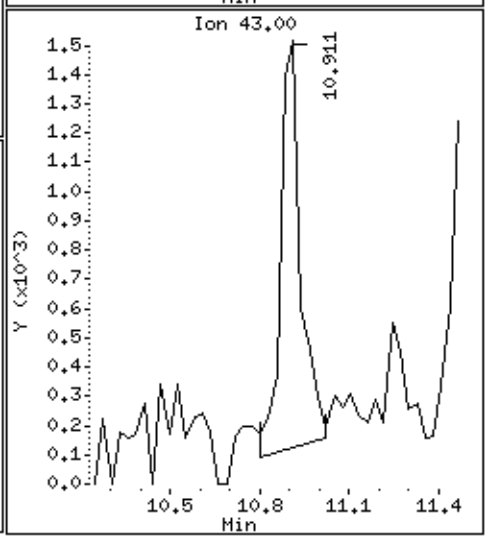












Data File: /chem/msdy.i/02oct08.b/y100214.d

Date : 03-OCT-2008 05:37

Client ID:

Instrument: msdy.i

Sample Info: 200mL #5756

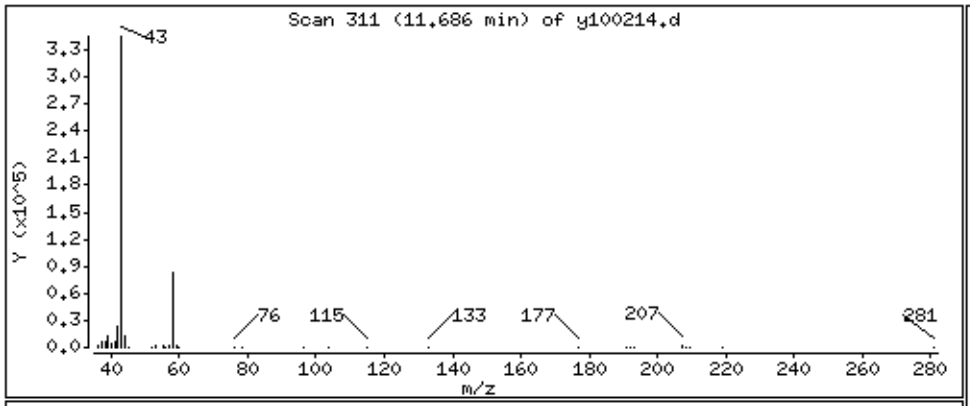
Operator: dfm

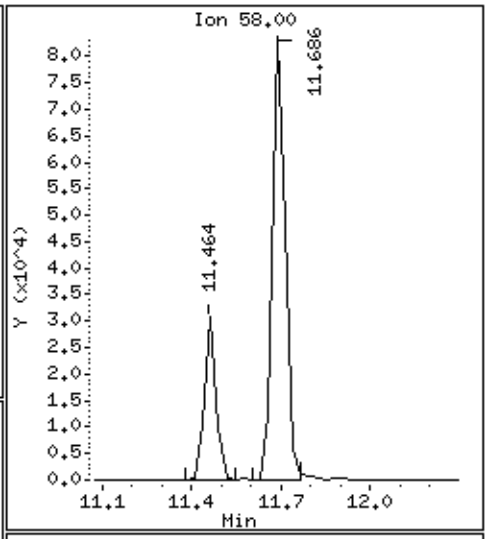
Column phase: RTx-624

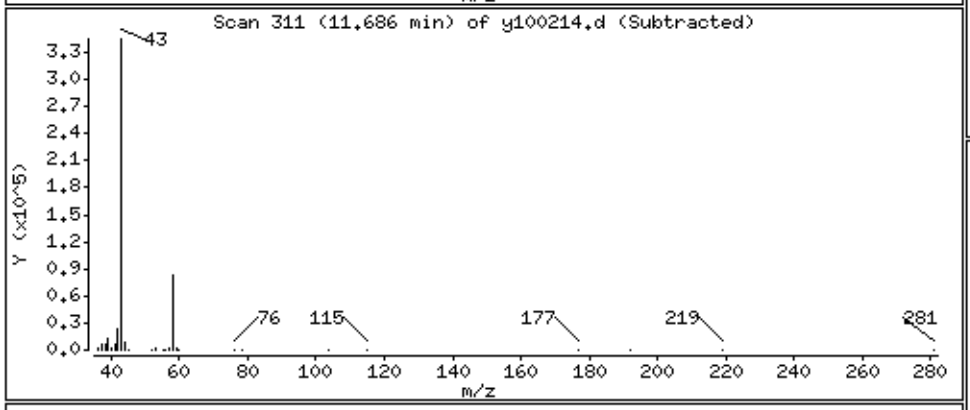
Column diameter: 0.53

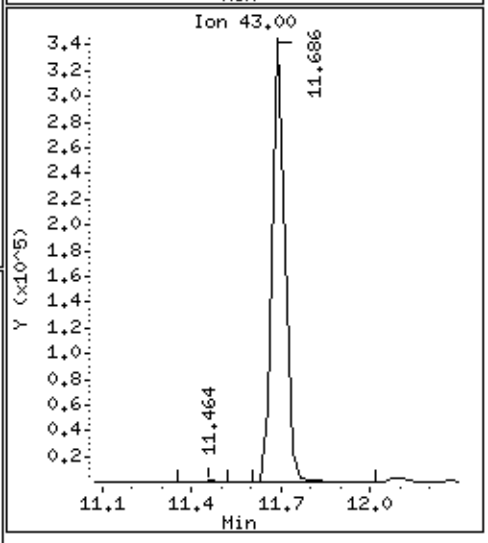
47 Acetone

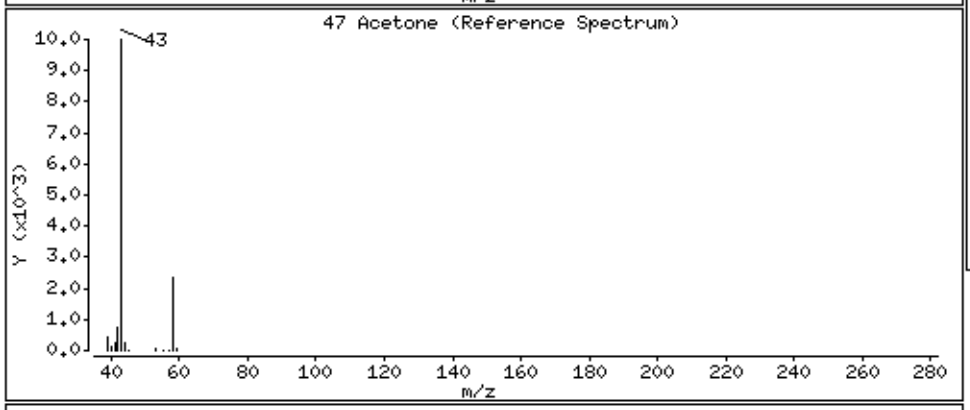
Concentration: 32.231 PPBV

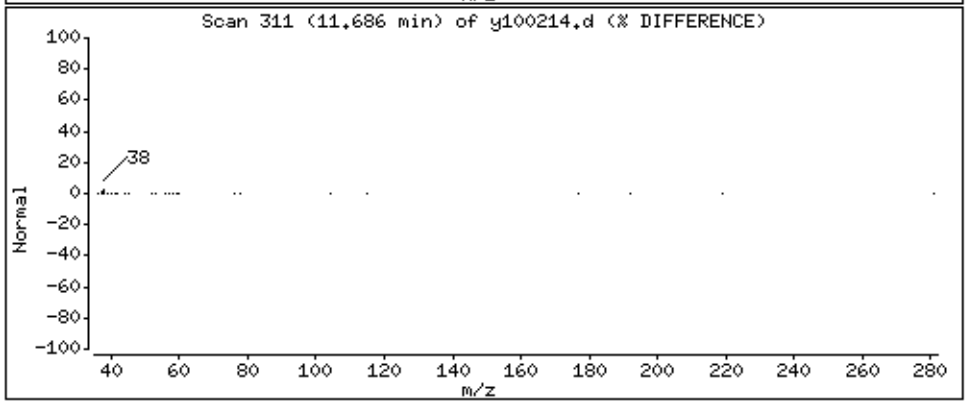












Data File: /chem/msdy.i/02oct08.b/y100214.d

Date : 03-OCT-2008 05:37

Client ID:

Instrument: msdy.i

Sample Info: 200mL #5756

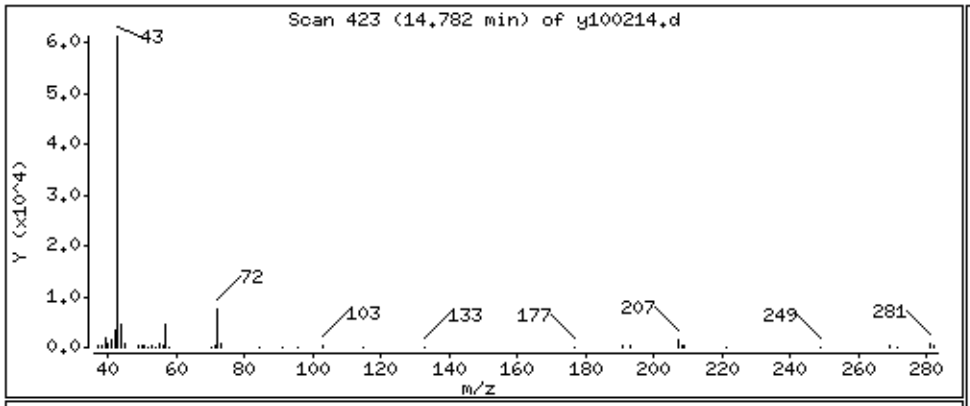
Operator: dfm

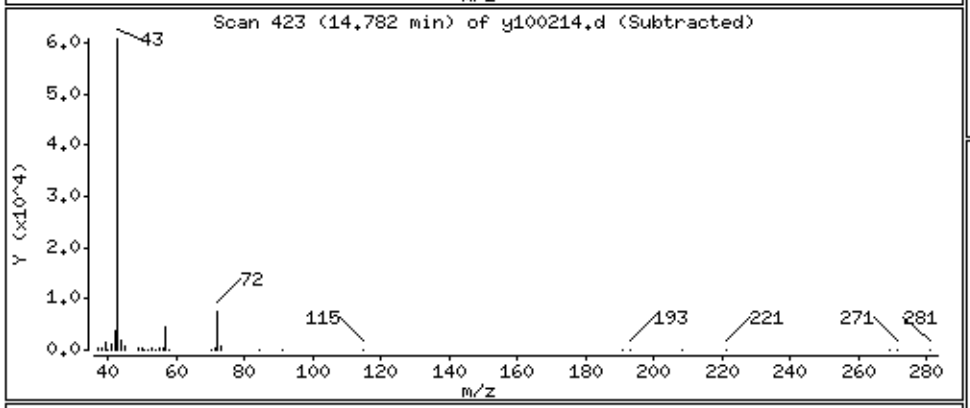
Column phase: RTx-624

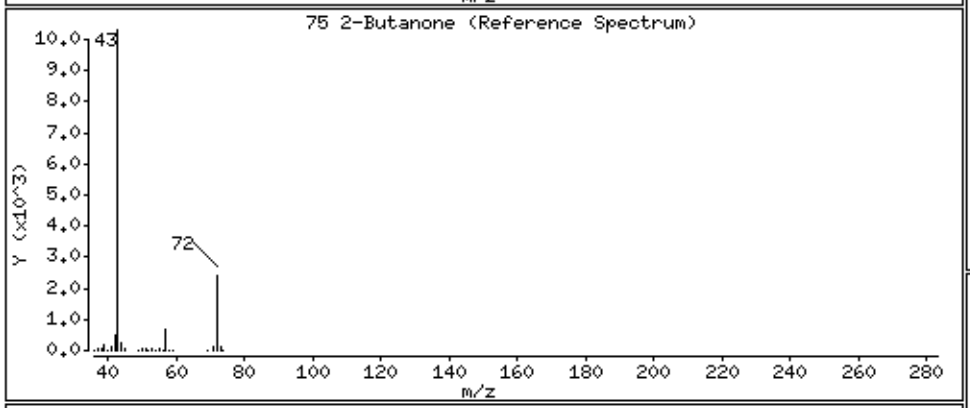
Column diameter: 0.53

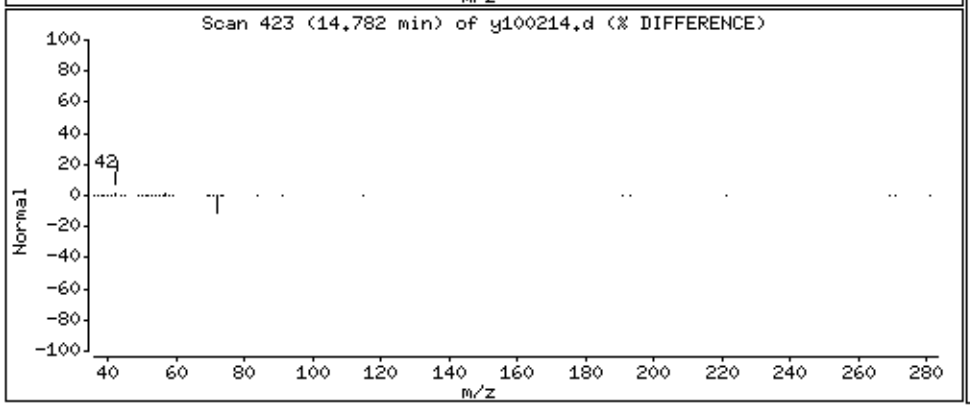
75 2-Butanone

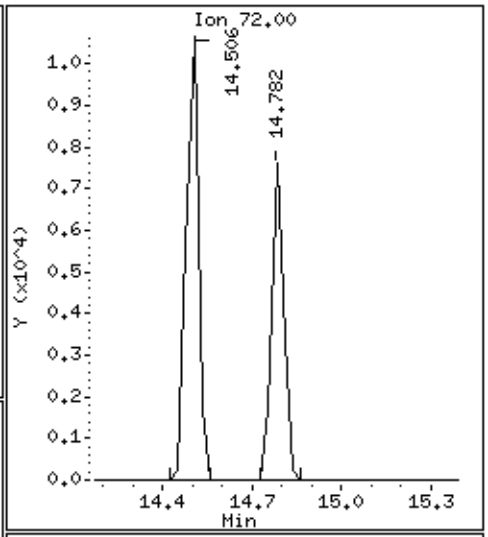
Concentration: 3.406 PPBV

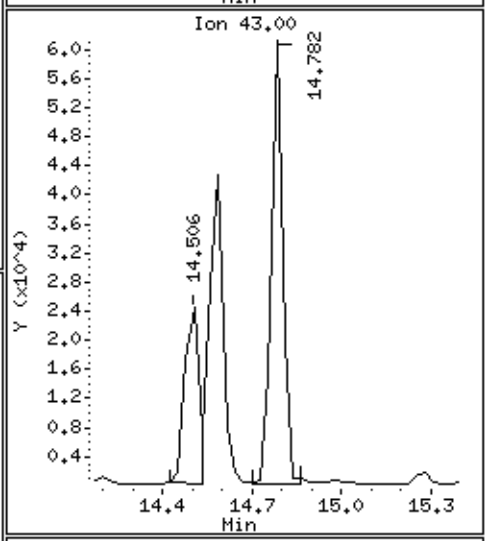


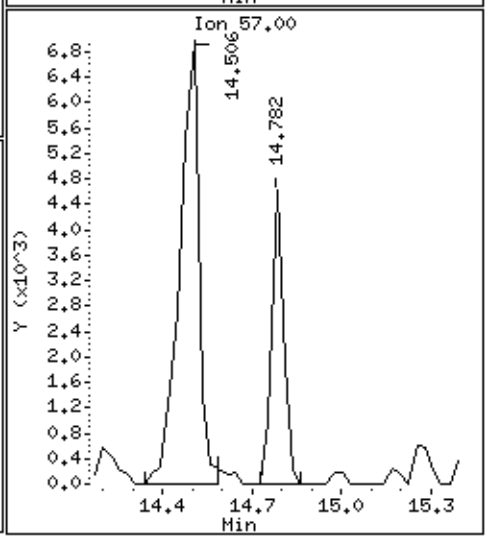












AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: AMS-3 UW

Lab ID#: 0809449-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.4	21	8.1	51
2-Butanone (Methyl Ethyl Ketone)	0.86	3.3	2.5	9.8

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS-3 UW

Lab ID#: 0809449-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y100215**	**Date of Collection: 9/19/08**	
Dil. Factor:	**1.71**	**Date of Analysis: 10/3/08 06:14 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.86	Not Detected	4.2	Not Detected
Freon 114	0.86	Not Detected	6.0	Not Detected
Vinyl Chloride	0.86	Not Detected	2.2	Not Detected
Bromomethane	0.86	Not Detected	3.3	Not Detected
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.86	Not Detected	4.8	Not Detected
1,1-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Freon 113	0.86	Not Detected	6.6	Not Detected
Methylene Chloride	0.86	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.86	Not Detected	3.5	Not Detected
cis-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Chloroform	0.86	Not Detected	4.2	Not Detected
1,1,1-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Carbon Tetrachloride	0.86	Not Detected	5.4	Not Detected
Benzene	0.86	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.86	Not Detected	3.5	Not Detected
Trichloroethene	0.86	Not Detected	4.6	Not Detected
1,2-Dichloropropane	0.86	Not Detected	4.0	Not Detected
cis-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
Toluene	0.86	Not Detected	3.2	Not Detected
trans-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
1,1,2-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Tetrachloroethene	0.86	Not Detected	5.8	Not Detected
1,2-Dibromoethane (EDB)	0.86	Not Detected	6.6	Not Detected
Chlorobenzene	0.86	Not Detected	3.9	Not Detected
Ethyl Benzene	0.86	Not Detected	3.7	Not Detected
m,p-Xylene	0.86	Not Detected	3.7	Not Detected
o-Xylene	0.86	Not Detected	3.7	Not Detected
Styrene	0.86	Not Detected	3.6	Not Detected
1,1,2,2-Tetrachloroethane	0.86	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,2,4-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,3-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,4-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
alpha-Chlorotoluene	0.86	Not Detected	4.4	Not Detected
1,2-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Hexane	0.86	Not Detected	3.0	Not Detected
Cyclohexane	0.86	Not Detected	2.9	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS-3 UW

Lab ID#: 0809449-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y100215**	**Date of Collection: 9/19/08**	
Dil. Factor:	**1.71**	**Date of Analysis: 10/3/08 06:14 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.86	Not Detected	3.5	Not Detected
Bromodichloromethane	0.86	Not Detected	5.7	Not Detected
Dibromochloromethane	0.86	Not Detected	7.3	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
Propylbenzene	0.86	Not Detected	4.2	Not Detected
Chloromethane	3.4	Not Detected	7.1	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Acetone	3.4	21	8.1	51
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
2-Propanol	3.4	Not Detected	8.4	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	3.3	2.5	9.8
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.86	Not Detected	3.5	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Bromoform	0.86	Not Detected	8.8	Not Detected
4-Ethyltoluene	0.86	Not Detected	4.2	Not Detected
Ethanol	3.4	Not Detected	6.4	Not Detected
Methyl tert-butyl ether	0.86	Not Detected	3.1	Not Detected
3-Chloropropene	3.4	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Naphthalene	3.4	Not Detected	18	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdy.i/02oct08.b/y100215.d
Lab Smp Id: 0809449-02A
Inj Date : 03-OCT-2008 06:14
Operator : dfm Inst ID: msdy.i
Smp Info : 200mL #5740
Misc Info : 6.5"Hg-5psi
Comment :
Method : /chem/msdy.i/02oct08.b/t14q930a.m
Meth Date : 06-Oct-2008 13:32 dbailey Quant Type: ISTD
Cal Date : 30-SEP-2008 23:37 Cal File: y093012.d
Als bottle: 1
Dil Factor: 1.71000
Integrator: HP RTE Compound Sublist: TO15N.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 80 Bromochloromethane					CAS #: 74-97-5		
15.142	15.142 (1.000)	130	292812	25.0000		80.00- 120.00	100.00
15.142	15.142 (1.000)	128	234781			28.48- 128.48	80.18
15.142	15.142 (1.000)	49	935369			273.11- 373.11	319.44
* 95 1,4-Difluorobenzene					CAS #: 540-36-3		
16.607	16.607 (1.000)	114	1558277	25.0000		80.00- 120.00	100.00
16.607	16.607 (1.000)	88	279098			0.00- 68.38	17.91
* 123 Chlorobenzene-d5					CAS #: 3114-55-4		
20.948	20.948 (1.000)	117	1574345	25.0000		80.00- 120.00	100.00
20.948	20.948 (1.000)	82	1008928			13.32- 113.32	64.09
$ 89 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.027	16.027 (1.058)	65	714487	28.3607	28.361	80.00- 120.00	100.00
16.027	16.027 (1.058)	67	322754			0.00- 96.20	45.17
$ 111 Toluene-d8					CAS #: 2037-26-5		
18.875	18.875 (1.137)	98	1625941	25.2009	25.201	80.00- 120.00	100.00
18.847	18.847 (1.135)	70	198018			0.00- 62.19	12.18

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 111 Toluene-d8 (continued)							
18.875	18.875 (1.137)	100	1112054			18.83- 118.83	68.39
$ 135 Bromofluorobenzene					CAS #: 460-00-4		
22.497	22.497 (1.074)	174	849018	24.7420	24.742	80.00- 120.00	100.00
22.497	22.497 (1.074)	95	1398879			116.11- 216.11	164.76
22.497	22.497 (1.074)	176	817326			45.94- 145.94	96.27
47 Acetone					CAS #: 67-64-1		
11.686	11.686 (0.772)	58	171459	12.4907	21.359	80.00- 120.00	100.00
11.686	11.686 (0.772)	43	698674			344.44- 444.44	407.49
75 2-Butanone					CAS #: 78-93-3		
14.782	14.783 (0.976)	72	21484	1.93926	3.316	80.00- 120.00	100.00
14.782	14.783 (0.976)	43	170246			703.08- 803.08	792.43
14.782	14.783 (0.976)	57	12344			4.23- 104.23	57.46

Report Date: 06-Oct-2008 14:23

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y100215.d
Lab Smp Id: 0809449-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msdy.i/02oct08.b/t14q930a.m
Misc Info: 6.5"Hg-5psi

Calibration Date: 02-OCT-2008
Calibration Time: 22:27

Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	345904	207542	484266	292812	-15.35
95 1,4-Difluorobenze	1781260	1068756	2493764	1558277	-12.52
123 Chlorobenzene-d5	1762193	1057316	2467070	1574345	-10.66

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	15.14	14.81	15.47	15.14	0.00
95 1,4-Difluorobenze	16.61	16.28	16.94	16.61	0.00
123 Chlorobenzene-d5	20.95	20.62	21.28	20.95	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.

Report Date: 06-Oct-2008 14:23

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 02oct08
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0809449-02A
Level: LOW Operator: dfm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /chem/msdy.i/02oct08.b/t14q930a.m
Misc Info: 6.5"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 89 1,2-Dichloroethane	25.000	28.361	113.44	70-130
$ 111 Toluene-d8	25.000	25.201	100.80	70-130
$ 135 Bromofluorobenzene	25.000	24.742	98.97	70-130

Data File: /chem/msdy.i/02oct08.b/y100215.d

Date : 03-OCT-2008 06:14

Client ID:

Sample Info: 200mL #5740

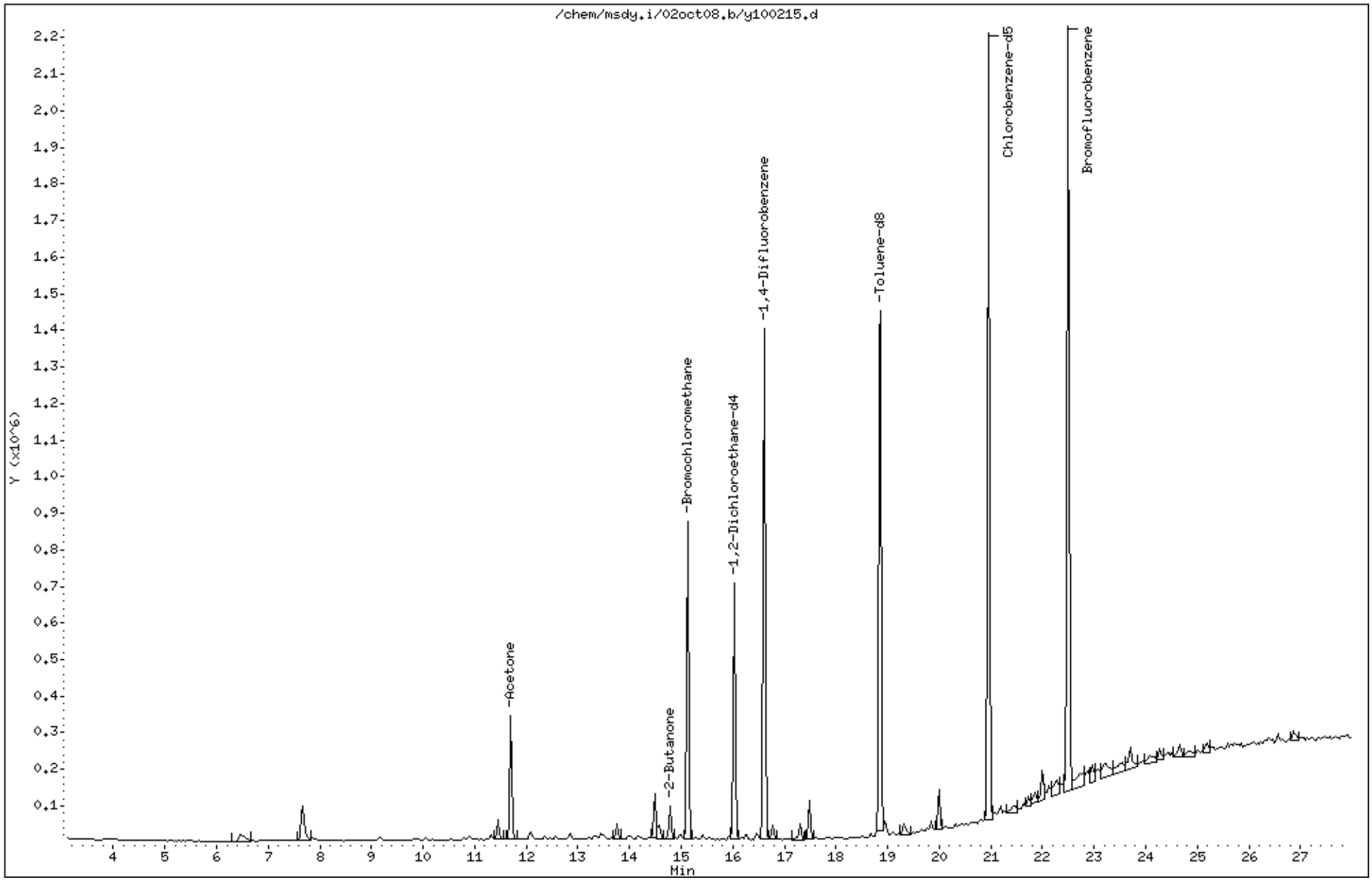
Column phase: RTx-624

Instrument: msdy.i

Operator: dfm

Column diameter: 0.53

0024



Data File: /chem/msdy.i/02oct08.b/y100215.d

Date : 03-OCT-2008 06:14

Client ID:

Instrument: msdy.i

Sample Info: 200mL #5740

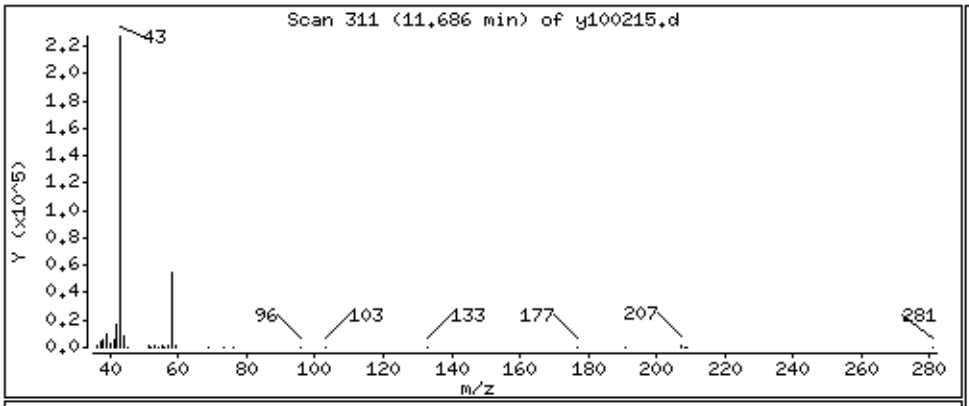
Operator: dfm

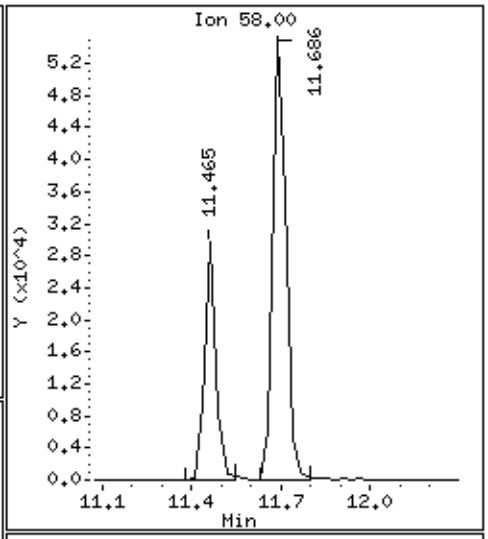
Column phase: RTx-624

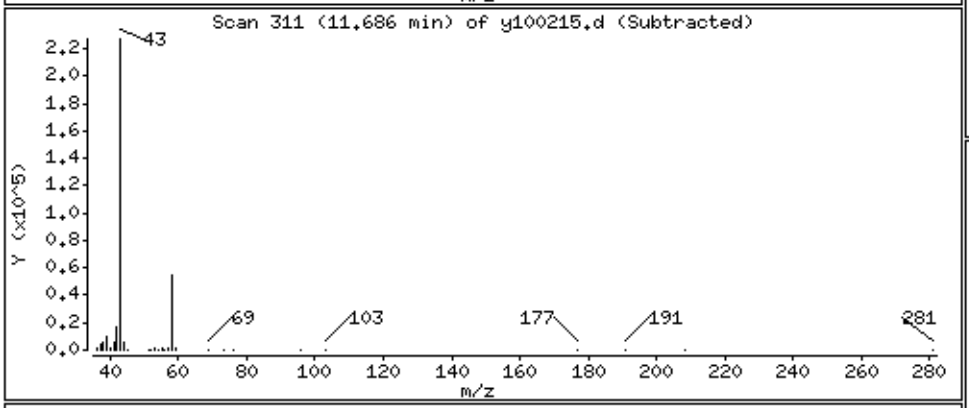
Column diameter: 0.53

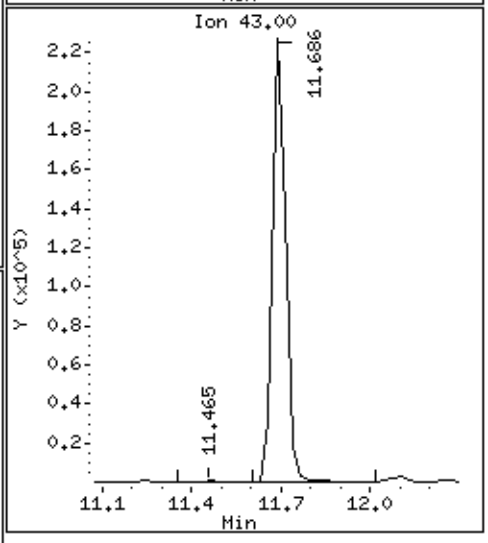
47 Acetone

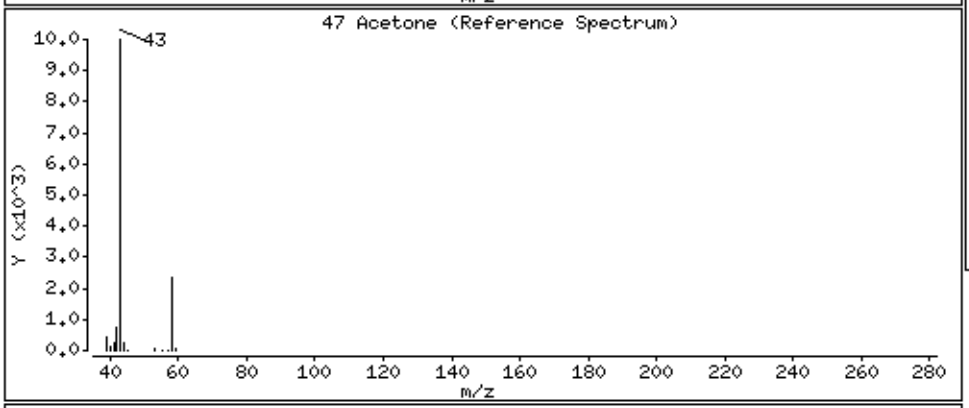
Concentration: 21.359 PPBV

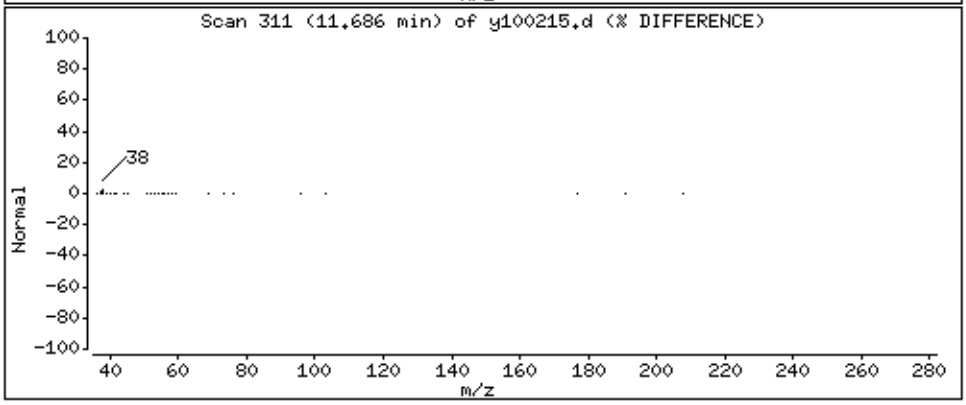












Data File: /chem/msdy.i/02oct08.b/y100215.d

Date : 03-OCT-2008 06:14

Client ID:

Instrument: msdy.i

Sample Info: 200mL #5740

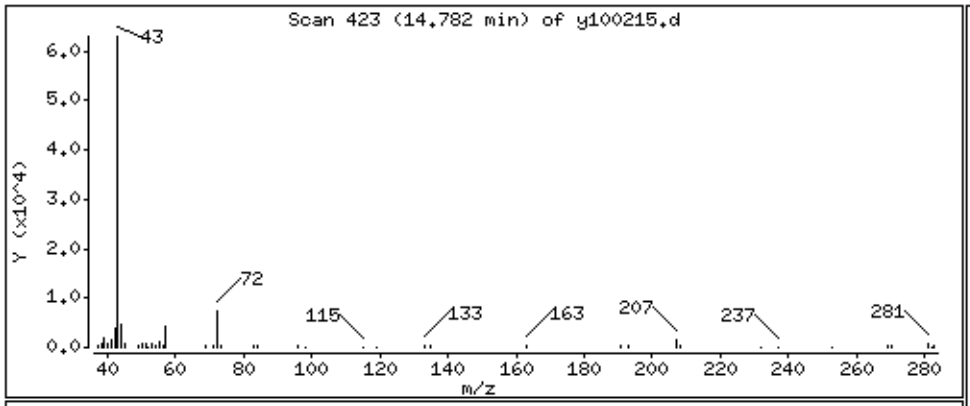
Operator: dfm

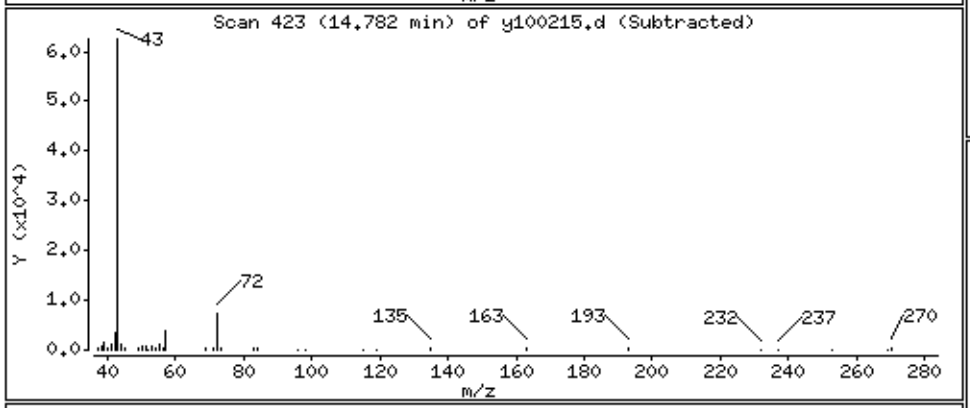
Column phase: RTx-624

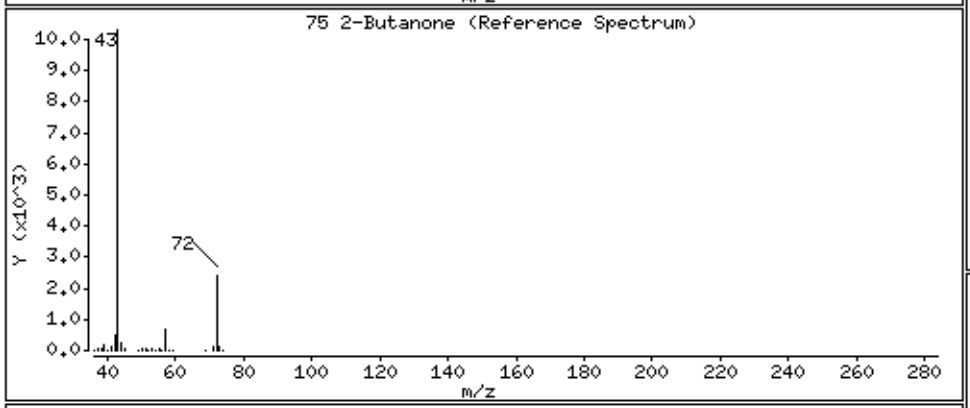
Column diameter: 0.53

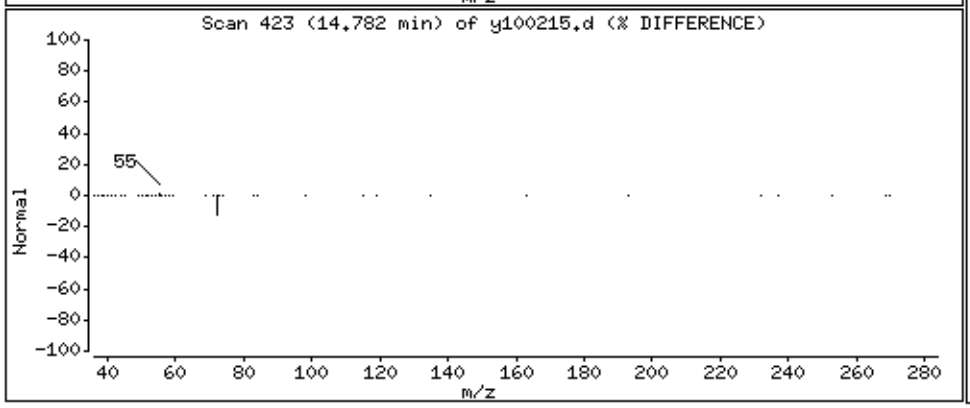
75 2-Butanone

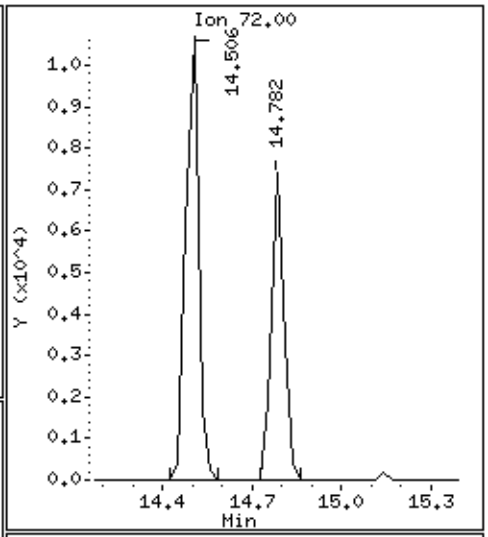
Concentration: 3.316 PPBV

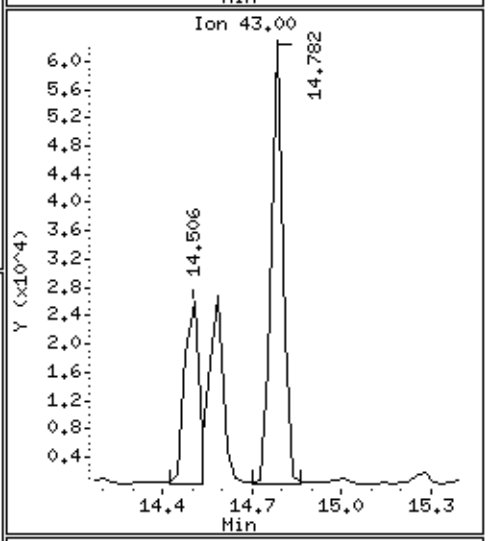


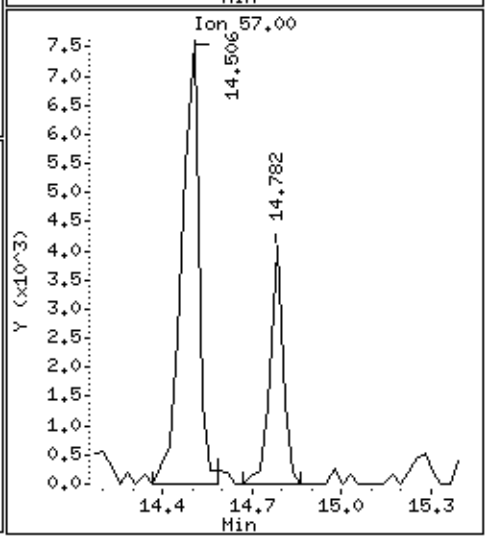












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0809449-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y100207**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/3/08 12:39 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0809449-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y100207**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/3/08 12:39 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.50	Not Detected	2.0	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdy.i/02oct08.b/y100207.d
Lab Smp Id: lab blank Client Smp ID: lab blank
Inj Date : 03-OCT-2008 00:39
Operator : dfm Inst ID: msdy.i
Smp Info : 200mL #34744
Misc Info : humid
Comment :
Method : /chem/msdy.i/02oct08.b/t14q930a.m
Meth Date : 06-Oct-2008 13:32 dbailey Quant Type: ISTD
Cal Date : 30-SEP-2008 23:37 Cal File: y093012.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
*	80 Bromochloromethane					CAS #: 74-97-5		
	15.142	15.142 (1.000)	130	311381	25.0000		80.00- 120.00	100.00
	15.142	15.142 (1.000)	128	251638			28.48- 128.48	80.81
	15.142	15.142 (1.000)	49	982839			273.11- 373.11	315.64
*	95 1,4-Difluorobenzene					CAS #: 540-36-3		
	16.607	16.607 (1.000)	114	1607735	25.0000		80.00- 120.00	100.00
	16.607	16.607 (1.000)	88	298444			0.00- 68.38	18.56
*	123 Chlorobenzene-d5					CAS #: 3114-55-4		
	20.948	20.948 (1.000)	117	1590489	25.0000		80.00- 120.00	100.00
	20.948	20.948 (1.000)	82	1025723			13.32- 113.32	64.49
$	89 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	16.027	16.027 (1.058)	65	718872	26.8331	26.833	80.00- 120.00	100.00
	16.027	16.027 (1.058)	67	336243			0.00- 96.20	46.77
$	111 Toluene-d8					CAS #: 2037-26-5		
	18.847	18.875 (1.135)	98	1678488	25.2151	25.215	80.00- 120.00	100.00
	18.847	18.847 (1.135)	70	201936			0.00- 62.19	12.03

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 111 Toluene-d8 (continued)							
18.875	18.875 (1.137)	100	1150974			18.83- 118.83	68.57
$ 135 Bromofluorobenzene					CAS #: 460-00-4		
22.497	22.497 (1.074)	174	845457	24.3881	24.388	80.00- 120.00	100.00
22.497	22.497 (1.074)	95	1391033			116.11- 216.11	164.53
22.497	22.497 (1.074)	176	809467			45.94- 145.94	95.74

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y100207.d
Lab Smp Id: lab blank
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msdy.i/02oct08.b/t14q930a.m
Misc Info: humid

Calibration Date: 02-OCT-2008
Calibration Time: 22:27
Client Smp ID: lab blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	345904	207542	484266	311381	-9.98
95 1,4-Difluorobenze	1781260	1068756	2493764	1607735	-9.74
123 Chlorobenzene-d5	1762193	1057316	2467070	1590489	-9.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	15.14	14.81	15.47	15.14	0.00
95 1,4-Difluorobenze	16.61	16.28	16.94	16.61	0.00
123 Chlorobenzene-d5	20.95	20.62	21.28	20.95	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.

Report Date: 06-Oct-2008 13:37

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 02oct08
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: lab blank Client Smp ID: lab blank
Level: LOW Operator: dfm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msdy.i/02oct08.b/t14q930a.m
Misc Info: humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 89 1,2-Dichloroethane	25.000	26.833	107.33	70-130
$ 111 Toluene-d8	25.000	25.215	100.86	70-130
$ 135 Bromofluorobenzene	25.000	24.388	97.55	70-130

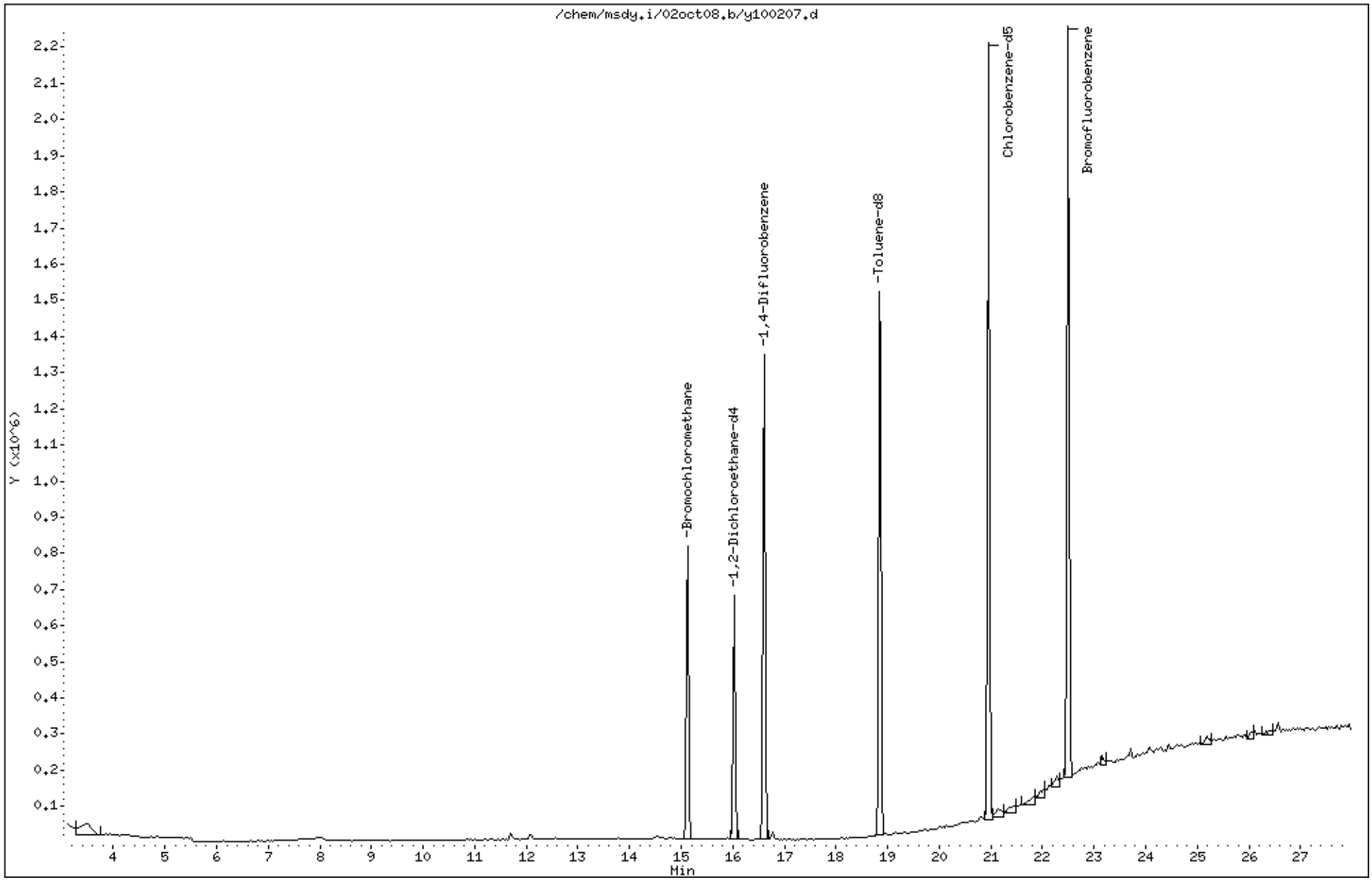
0034

Data File: /chem/msdy.i/02oct08.b/y100207.d
Date : 03-OCT-2008 00:39
Client ID: lab blank
Sample Info: 200mL #34744

Column phase: RTx-624

Instrument: msdy.i

Operator: dfm
Column diameter: 0.53



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0809449

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	AMS4 DW	112		100		99				0
02	AMS-3 UW	113		101		99				0
03	Lab Blank	107		101		98				0
04	CCV	107		102		100				0
05	LCS	107		99		101				0
06										0
07										0
08										0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

1,2-Dichloroethane-d4 70 - 130
Toluene-d8 70 - 130
4-Bromofluorobenzene 70 - 130

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 0809449

Lab File ID: y100204.d | Date Analyzed: 10/02/2008

Instrument ID: msdy.i | Time Analyzed: 10:27 PM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	1762193		20.95		1781260		16.61		345904		15.14	
	UPPER LIMIT	2467070		21.28		2493764		16.94		484266		15.47	
	LOWER LIMIT	1057316		20.62		1068756		16.28		207542		14.81	
	CLIENT SAMPLE NO												
01	AMS4 DW	1560763		20.95		1546455		16.61		297357		15.14	
02	AMS-3 UW	1574345		20.95		1558277		16.61		292812		15.14	
03	Lab Blank	1590489		20.95		1607735		16.61		311381		15.14	
04	CCV	1762193		20.95		1781260		16.61		345904		15.14	
05	LCS	1649621		20.95		1687430		16.61		326683		15.14	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

'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

* Designates values outside of QC limits

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 30-SEP-2008 19:11
End Cal Date : 30-SEP-2008 23:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdy.i/30sep08.b/t14q930a.m
Cal Date : 01-Oct-2008 09:13 nshafer
Curve Type : Average

Calibration File Names:
Level 1: /chem/msdy.i/30sep08.b/y093006.d
Level 2: /chem/msdy.i/30sep08.b/y093007.d
Level 3: /chem/msdy.i/30sep08.b/y093008.d
Level 4: /chem/msdy.i/30sep08.b/y093009.d
Level 5: /chem/msdy.i/30sep08.b/y093010.d
Level 6: /chem/msdy.i/30sep08.b/y093011.d
Level 7: /chem/msdy.i/30sep08.b/y093012.d

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Propylene	+++++	+++++	0.96731	1.00257	0.92389	0.93197	0.96980	0.95911	3.317
6 Freon 152a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Dichlorodifluoromethane/Fr12	+++++	2.63556	2.31170	2.53106	2.43801	2.43563	2.54681	2.48313	4.530

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 30-SEP-2008 19:11
End Cal Date : 30-SEP-2008 23:37
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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdy.i/30sep08.b/t14q930a.m
Cal Date : 01-Oct-2008 09:13 nshafer
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
8 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Freon 114	+++++	1.30592	1.37008	1.47956	1.42057	1.42730	1.51445	1.41965	5.274
12 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Chloromethane	+++++	+++++	1.18114	1.30188	1.25123	1.22750	1.29694	1.25174	4.020
16 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 30-SEP-2008 19:11
End Cal Date : 30-SEP-2008 23:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdy.i/30sep08.b/t14q930a.m
Cal Date : 01-Oct-2008 09:13 nshafer
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
18 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 Butane	+++++	+++++	0.26993	0.24898	0.26029	0.25360	0.27074	0.26071	3.708
21 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Vinyl Chloride	+++++	1.20329	1.17081	1.17598	1.10572	1.10291	1.17784	1.15609	3.604
23 1,3-Butadiene	1.37803	1.57382	1.10581	1.19019	1.07310	1.01274	1.07085	1.20065	16.942
24 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Bromomethane	+++++	0.63590	0.60200	0.70585	0.69561	0.72421	0.77229	0.68931	8.918
26 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 30-SEP-2008 19:11
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdy.i/30sep08.b/t14q930a.m
Cal Date : 01-Oct-2008 09:13 nshafer
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
28 Chloroethane	+++++	0.55726	0.42242	0.59996	0.60172	0.61957	0.68281	0.58062	15.084
29 Isopentane	+++++	+++++	2.50977	2.55664	2.35649	2.18164	2.17665	2.35624	7.546
30 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Trichlorofluoromethane/Fr11	+++++	2.82469	2.67389	3.05819	2.98357	2.90963	3.03050	2.91341	4.971
34 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 30-SEP-2008 19:11
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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdy.i/30sep08.b/t14q930a.m
Cal Date : 01-Oct-2008 09:13 nshafer
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
38 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Ethanol	+++++	+++++	0.85777	1.07814	1.00374	0.82530	0.81827	0.91664	12.811
40 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 1,1-Dichloroethene	+++++	4.21977	3.86675	3.79950	3.34863	2.97433	2.72694	3.48932	16.406
43 Freon123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 Freon 113	+++++	2.05964	1.71560	1.66827	1.48480	1.38431	1.39264	1.61754	15.888
45 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 Carbon Disulfide	+++++	3.57281	3.13225	4.14195	3.85347	3.55018	3.34743	3.59968	9.968
47 Acetone	+++++	+++++	1.37887	1.16717	1.15477	1.12711	1.03204	1.17199	10.853

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 30-SEP-2008 19:11
End Cal Date : 30-SEP-2008 23:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdy.i/30sep08.b/t14q930a.m
Cal Date : 01-Oct-2008 09:13 nshafer
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
48 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Methyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 2-Propanol	+++++	+++++	8.06993	6.00066	5.64024	5.49614	4.98307	6.03801	19.761
51 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 3-Chloropropene	+++++	+++++	0.27876	0.57561	0.60862	0.64413	0.58340	0.53810	27.397
54 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Methylene Chloride	+++++	3.44126	2.74158	3.24834	3.01792	2.79811	2.62146	2.97811	10.668
57 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 30-SEP-2008 19:11
End Cal Date : 30-SEP-2008 23:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdy.i/30sep08.b/t14q930a.m
Cal Date : 01-Oct-2008 09:13 nshafer
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
58 tert-Butyl-Alcohol	+++++	+++++	2.36944	1.78490	1.55903	1.30919	1.05977	1.61646	30.978
59 2,4,4-Trimethyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 MTBE	+++++	1.32671	0.57744	0.88164	0.90873	0.84396	0.77010	0.88476	27.922
61 trans-1,2-Dichloroethene	+++++	1.66432	1.39263	1.72573	1.68683	1.67030	1.61981	1.62660	7.356
62 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 2,4,4-Trimethyl-2-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 Hexane	+++++	4.60296	4.08444	4.72899	4.74620	4.66643	4.80643	4.60591	5.749
66 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 1,1-Dichloroethane	+++++	3.00542	2.68745	4.27829	4.26648	4.26552	4.20422	3.78456	19.396

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 30-SEP-2008 19:11
End Cal Date : 30-SEP-2008 23:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdy.i/30sep08.b/t14q930a.m
Cal Date : 01-Oct-2008 09:13 nshafer
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
68 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 t-Butylethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 cis-1,2-Dichloroethene	+++++	3.37208	3.06189	3.65299	3.58209	3.53012	3.63314	3.47205	6.471
75 2-Butanone	+++++	0.91406	0.76805	0.98944	1.01235	0.98554	1.00576	0.94587	9.930
76 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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Cal Date : 01-Oct-2008 09:13 nshafer
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
78 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
79 Tetrahydrofuran	+++++	3.83804	3.20478	4.40525	4.41632	4.40612	4.57006	4.14010	12.636
81 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 Chloroform	3.19170	3.85990	3.16454	3.93180	3.86665	3.84301	3.96888	3.68950	9.545
83 Cyclohexane	+++++	2.83242	2.37823	2.72350	2.59816	2.34466	2.21176	2.51479	9.590
84 1,1,1-Trichloroethane	+++++	1.88610	1.76378	3.29718	3.45304	3.39937	3.30949	2.85149	27.992
85 Carbon Tetrachloride	+++++	3.18682	2.69001	3.51296	3.50104	3.35512	3.36948	3.26924	9.407
86 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
87 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88 2,2,4-Trimethylpentane	+++++	15.82467	13.62573	16.28252	16.17134	16.08397	13.73932	15.28792	8.197

Air Toxics Ltd.

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Cal Date : 01-Oct-2008 09:13 nshafer
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
90 Benzene	+++++	1.56006	1.12283	1.25405	1.23261	1.18114	1.12880	1.24658	13.034
91 tert-amyl-Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
92 1,2-Dichloroethane	+++++	0.70867	0.61946	0.74706	0.75422	0.72758	0.69834	0.70922	6.899
93 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 Heptane	+++++	0.56117	0.38873	0.48006	0.46827	0.43654	0.39856	0.45555	13.881
96 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 Trichloroethene	+++++	0.56949	0.46021	0.54645	0.52189	0.49638	0.45777	0.50870	8.962
98 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
99 Methyl Cyclohexane	+++++	3.80659	3.27971	3.84439	3.81722	3.67970	3.68214	3.68496	5.718
100 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdy.i/30sep08.b/t14q930a.m
Cal Date : 01-Oct-2008 09:13 nshafer
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
101 1,2-Dichloropropane	+++++	0.57987	0.52720	0.61075	0.60077	0.56897		
	0.53609						0.57061	5.910
102 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
103 1,4-Dioxane	+++++	+++++	0.25800	0.32030	0.33031	0.31841		
	0.29927						0.30526	9.404
104 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
105 Bromodichloromethane	+++++	0.86166	0.76723	0.88516	0.88976	0.84414		
	0.80389						0.84197	5.715
106 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
107 2-Chloroethyl vinyl ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
108 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
109 cis-1,3-Dichloropropene	+++++	0.71271	0.57750	0.75244	0.76287	0.73006		
	0.69367						0.70488	9.553
110 4-Methyl-2-pentanone	+++++	0.70192	0.55160	0.65832	0.67059	0.63428		
	0.58803						0.63413	8.765

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msdy.i/30sep08.b/t14q930a.m
Cal Date : 01-Oct-2008 09:13 nshafer
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
112 Toluene	+++++	1.53825	1.31893	1.52615	1.52040	1.43551		
	1.36021						1.44991	6.469
113 trans-1,3-Dichloropropene	+++++	0.55450	0.53858	0.80333	0.82820	0.84458		
	0.82112						0.73172	19.698
114 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
115 Undecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
116 1,1,2-Trichloroethane	+++++	0.56122	0.48901	0.55040	0.54416	0.52631		
	0.48477						0.52598	6.151
117 Tetrachloroethene	+++++	0.74463	0.60161	0.66016	0.64570	0.62380		
	0.56984						0.64096	9.372
118 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
119 2-Hexanone	+++++	+++++	0.78677	1.01815	1.06196	1.07172		
	1.00886						0.98949	11.776
120 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
121 Dibromochloromethane	+++++	0.88379	0.72116	0.84000	0.82685	0.80820		
	0.74878						0.80480	7.478

Air Toxics Ltd.

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Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdy.i/30sep08.b/t14q930a.m
Cal Date : 01-Oct-2008 09:13 nshafer
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
122 1,2-Dibromoethane	1.01788	0.84176	0.71768	0.85750	0.86201	0.83560	0.77743	0.84427	10.942
124 Chlorobenzene	+++++	1.64700	1.19110	1.36594	1.35184	1.31094	1.21952	1.34772	12.067
125 Ethyl Benzene	+++++	0.83781	0.62825	0.75067	0.73429	0.70468	0.63897	0.71578	10.846
126 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 m,p-Xylene	+++++	1.02029	0.78304	0.95745	0.93276	0.90451	0.82822	0.90438	9.586
129 o-Xylene	+++++	0.96799	0.72151	0.88340	0.84895	0.79574	0.70639	0.82066	12.179
130 Styrene	1.72130	1.46011	1.14008	1.48385	1.46257	1.39515	1.25952	1.41751	12.975
131 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 Bromoform	+++++	0.76137	0.61093	0.83368	0.82232	0.79599	0.73945	0.76062	10.721

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Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
133 Cumene	3.57893	2.86368	2.11875	2.58857	2.56933	2.50823	2.18309	2.63008	18.603
134 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 1,1,2,2-Tetrachloroethane	+++++	1.06751	0.91161	1.32788	1.34331	1.31630	1.20350	1.19502	14.542
137 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 Propylbenzene	+++++	3.42070	2.61284	3.34814	3.34970	3.27830	2.26719	3.04615	15.894
140 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 4-Ethyltoluene	+++++	2.86670	2.13650	2.87172	2.87574	2.80485	2.12771	2.61387	14.312
143 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
144 1,3,5-Trimethylbenzene	3.96796	2.76622	2.10370	2.79887	2.80441	2.78847	2.62693	2.83665	19.685
145 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
147 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 1,2,4-Trimethylbenzene	3.29600	2.06646	1.60798	2.22427	2.22748	2.19722	2.04866	2.23830	22.952
150 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 bis(2-chloroethyl)ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
153 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD	
154 1,3-Dichlorobenzene	+++++	1.07463	0.87478	1.29585	1.30456	1.28424	1.18665	1.17012	14.479	
155 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
156 1,4-Dichlorobenzene	+++++	1.12608	0.85927	1.28421	1.29259	1.27597	1.19318	1.17188	14.192	
157 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
158 alpha-Chlorotoluene	+++++	1.25846	0.93944	1.94392	2.13912	2.23106	2.02734	1.75656	30.078	<-
159 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
160 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
161 1,2-Dichlorobenzene	+++++	1.04225	0.80376	1.14542	1.15608	1.14556	1.07163	1.06078	12.645	
162 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
163 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
164 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
166 1,2,4-Trichlorobenzene	+++++	+++++	0.38237	0.69034	0.76937	0.81433	0.78060	0.68740	25.672
167 Hexachlorobutadiene	+++++	+++++	0.41773	0.57133	0.59870	0.61233	0.57200	0.55442	14.143
168 Naphthalene	+++++	+++++	0.81236	1.49127	1.73447	1.91130	1.88840	1.56756	28.973
169 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
170 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
171 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
172 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
174 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 89 1,2-Dichloroethane-d4	2.08545	2.10080	2.06769	2.17257	2.15154	2.14733	2.33119	2.15094	4.102
$ 111 Toluene-d8	1.02651	1.02564	1.04340	1.03887	1.03915	1.03656	1.03559	1.03510	0.642
$ 135 Bromofluorobenzene	0.53758	0.52678	0.52727	0.53865	0.54576	0.55974	0.57857	0.54491	3.422

Calibration History

Method : /chem/msdy.i/30sep08.b/t14q930a.m
Start Cal Date: 30-SEP-2008 19:11
End Cal Date : 30-SEP-2008 23:37

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
30-SEP-2008 19:11	AFCEElow	/chem/msdy.i/30sep08.b/y093006.d
Cal Level: 2 , Cal Amount: 0.50000		
30-SEP-2008 19:57	AT08low	/chem/msdy.i/30sep08.b/y093007.d
Cal Level: 3 , Cal Amount: 2.00000		
30-SEP-2008 20:33	AT08mdl	/chem/msdy.i/30sep08.b/y093008.d
Cal Level: 4 , Cal Amount: 25.00000		
30-SEP-2008 21:46	AT08	/chem/msdy.i/30sep08.b/y093009.d
Cal Level: 5 , Cal Amount: 50.00000		
30-SEP-2008 22:22	AT08	/chem/msdy.i/30sep08.b/y093010.d
Cal Level: 6 , Cal Amount: 100.00000		
30-SEP-2008 23:01	AT08	/chem/msdy.i/30sep08.b/y093011.d
Cal Level: 7 , Cal Amount: 200.00000		
30-SEP-2008 23:37	AT08	/chem/msdy.i/30sep08.b/y093012.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000
30-SEP-2008 22:22 | AT08 | /chem/msdy.i/30sep08.b/y093010.d
Ccal Level: 5 , Ccal Amount: 50.000
30-SEP-2008 22:22 | AT08 | /chem/msdy.i/30sep08.b/y093010a.d

Initial Calibration Narrative

A 7 point initial calibration was analyzed on MSD-Y on 9/30/08.

1. The following compounds used 0.3ppbv as the lowest calibration concentration:

   1,3-Butadiene, Chloroform, 1,2-Dibromoethane, Styrene, Cumene, 1,3,5-Trimethylbenzene and 1,2,4- Trimethylbenzene.

@ Air Toxics Ltd.

MSD-Y

Logbook #: 17058

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	29.30
75	30.0 – 60.0% of mass 95	46.45
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.22
173	Less than 2.0% of mass 174	(0.71)[1]
174	Greater than 50.0% of mass 95	62.10
175	5.0 – 9.0% of mass 174	(7.58)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.79)[1]
177	5.0 – 9.0% of mass 176	(6.38)[2]

[1] - value in parenthesis is % mass 174 [2] - value in parenthesis is % mass 176

BFB Injection Date: 9/30/08
BFB Injection Time: 1759
BFB File ID: Y093005
Tekmar Purge Flow: 20 mL/min
Vacuum: 5.1x10^-6

IS/S Std.#: 1541-262	Exp. Date: 12/12/08
BCM 366277	
1,4-DFB 1547900	
CB-d5 1826829	

Verified CCV IS vs ICAL mid-point (- 40%D) ✓ *initials*

Verify 176/174 m/z Ratio: 294464 / 307392 x 100 = 95.79%

Calculation Check:

ppbv of compound = $\frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(4573031)}{(1835389)} \times \frac{(25)}{(1.24658)} = 49.9684$

File ID: Y093015
Compound: Benzene
Initials: DB

Reported Result 49.968

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	Y093005	BFB Tune Check	M76-477	50psig	2mL	1.00	9/30/08	1759	KR	
2	✓	06	ICAL Level 1	1612-158	0.3ppbv	0.3mL	1		1911	KR	
3	✓	07	2		0.5ppbv	0.5mL			1957	DB	
4	✓	08	3		2ppbv	2mL			2033		
5	✓	09	4		25ppbv	25mL			2146		
6	✓	10	5		50ppbv	50mL			2222		
7	✓	11	6		100ppbv	100mL			2301		
8	✓	12	7		200ppbv	200mL			2337		
9	X	13	System Blank	9043	—	200mL		10/1/08	0805		

Signature

10/1/08
Date

10	✓	Y093014	Lab Blank	9943	-	200 ml	1.0	10/1/08	0840	DB	
11	✓	↓ 15	LCS (200ppbv)	16:2-16:4	50ppbv	50 ml	↓	↓	0930	DB	
12											
13											
14											
15											
16											
17										DB	
18										10/1/08	
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											

0059

Comments: Mist Flow Meter : 1-09874 exp 6/09

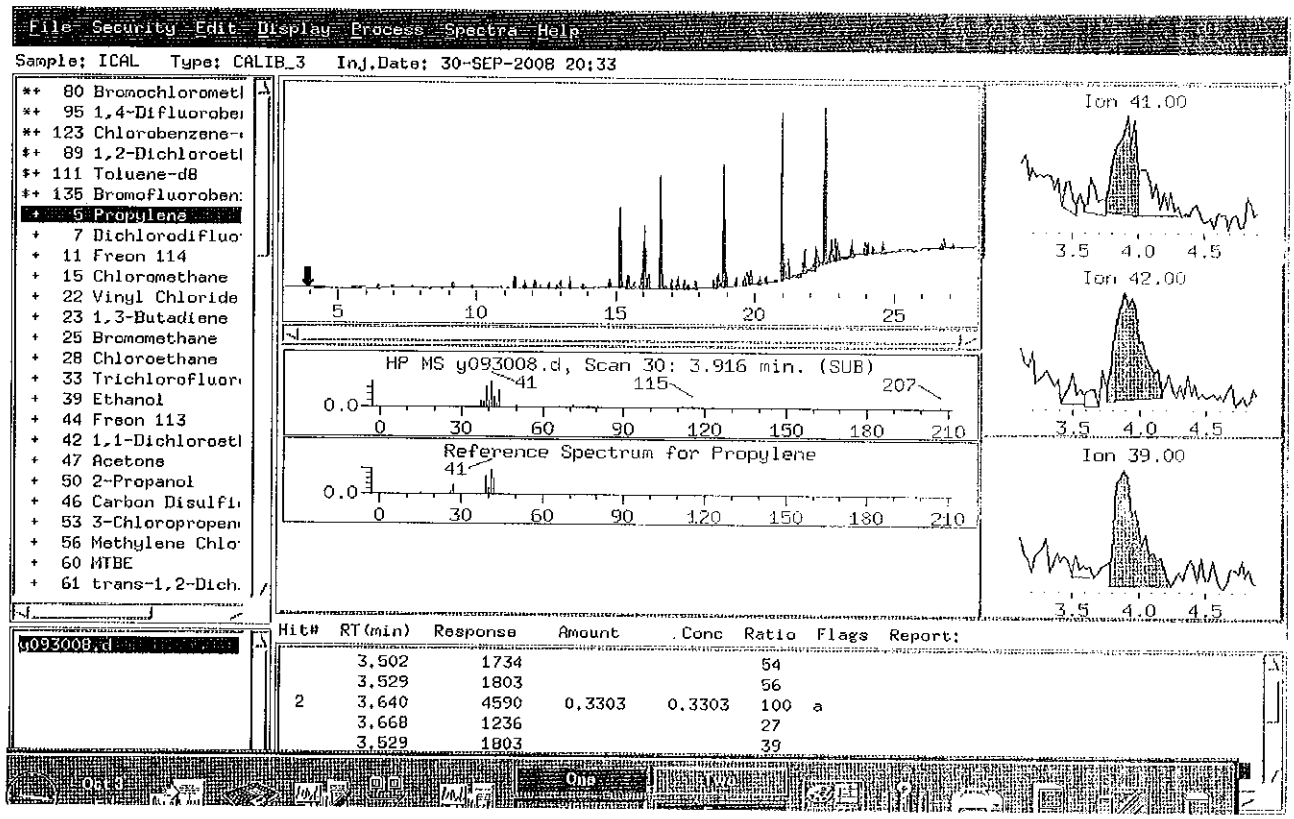
Flow Controller : AA92110057

25 ml/min → 23.5 ml/min

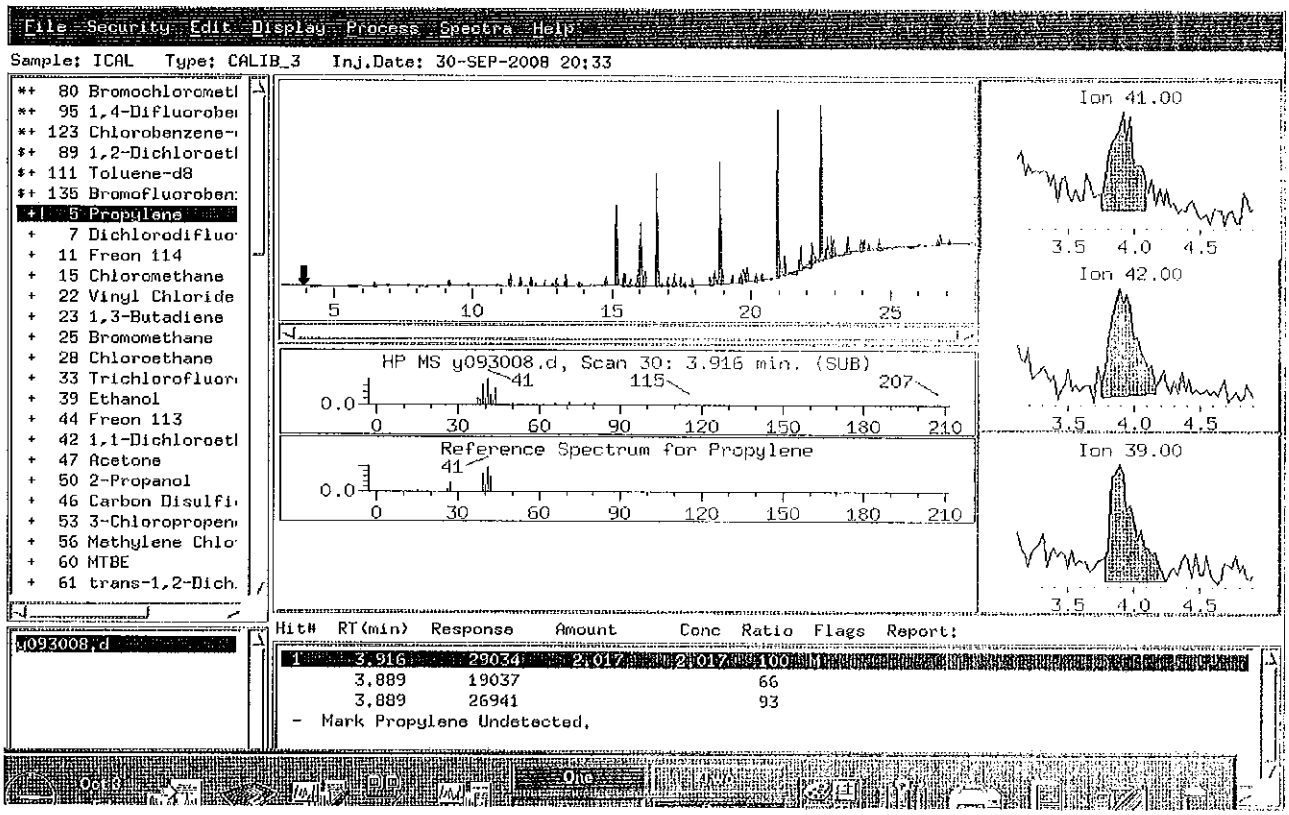
Dianne Burton
Signature

10/1/08
Date

Poor Integration
manually Integrated
OB
10/3/08
Before



After
OB
10/3/08



Air Toxics Ltd.
Modified EPA Methods TO-14A/TO-15
Internal Standard and Associated Target Compounds and Surrogates

Bromochloromethane
Target Compounds:
Freon 12
Freon 114
Chloromethane
Vinyl Chloride
1,3-Butadiene
Bromomethane
Chloroethane
Freon 11
Ethanol
Freon 113
1,1-Dichloroethene
Acetone
2-Propanol
Carbon Disulfide
3-Chloropropene
Methylene Chloride
Methyl tert-butyl ether
trans-1,2-Dichloroethene
Hexane
1,1-Dichloroethane
2-Butanone (Methyl Ethyl Ketone)
cis-1,2-Dichloroethene
Tetrahydrofuran
Chloroform
1,1,1-Trichloroethane
Cyclohexane
Carbon Tetrachloride
2,2,4-Trimethylpentane
Surrogates:
1,2-Dichloroethane-d4

1,4-Difluorobenzene
Target Compounds:
Benzene
1,2-Dichloroethane
Heptane
Trichloroethene
1,2-Dichloropropane
1,4-Dioxane
Bromodichloromethane
cis-1,3-Dichloropropene
4-Methyl-2-pentanone
Toluene
Surrogates:
Toluene-d8

Chlorobenzene-d5
Target Compounds:
trans-1,3-Dichloropropene
1,1,2-Trichloroethane
Tetrachloroethene
2-Hexanone
Dibromochloromethane
1,2-Dibromoethane (EDB)
Chlorobenzene
Ethyl Benzene
m,p-Xylene
o-Xylene
Styrene
Bromoform
Cumene
1,1,2,2-Tetrachloroethane
Propylbenzene
4-Ethyltoluene
1,3,5-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
alpha-Chlorotoluene
1,2-Dichlorobenzene
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Surrogates:
Bromofluorobenzene

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdy.i/30sep08.b/y093015.d
Lab Smp Id: LCS-Curve Client Smp ID: LCS-Curve
Inj Date : 01-OCT-2008 09:30
Operator : db Inst ID: msdy.i
Smp Info : 50mL #1612-164
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msdy.i/30sep08.b/t14q930a.m
Meth Date : 01-Oct-2008 09:13 nshafer Quant Type: ISTD
Cal Date : 30-SEP-2008 19:11 Cal File: y093006.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 80 Bromochloromethane					CAS #: 74-97-5		
15.142	15.142 (1.000)	130	364737	25.0000		50.00- 150.00	100.00
15.142	15.142 (1.000)	128	285631			28.44- 128.44	78.31
15.142	15.142 (1.000)	49	1120545			256.20- 356.20	307.22
* 95 1,4-Difluorobenzene					CAS #: 540-36-3		
16.607	16.607 (1.000)	114	1835389	25.0000		50.00- 150.00	100.00
16.607	16.607 (1.000)	88	327393			0.00- 68.05	17.84
* 123 Chlorobenzene-d5					CAS #: 3114-55-4		
20.948	20.948 (1.000)	117	1807697	25.0000		50.00- 150.00	100.00
20.948	20.948 (1.000)	82	1147145			13.32- 113.32	63.46
$ 89 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.027	16.027 (1.058)	65	775721	24.7194	24.719	50.00- 150.00	100.00
16.027	16.027 (1.058)	67	358606			0.00- 96.20	46.23
$ 111 Toluene-d8					CAS #: 2037-26-5		
18.875	18.875 (1.137)	98	1901286	25.0194	25.019	50.00- 150.00	100.00
18.875	18.875 (1.137)	70	234181			0.00- 62.19	12.32

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 111 Toluene-d8 (continued)							
18.875	18.875 (1.137)	100	1312200			18.83- 118.83	69.02
$ 135 Bromofluorobenzene					CAS #: 460-00-4		
22.497	22.497 (1.074)	174	988284	25.0826	25.083	50.00- 150.00	100.00
22.497	22.497 (1.074)	95	1597368			112.09- 212.09	161.63
22.497	22.497 (1.074)	176	938864			46.24- 146.24	95.00
5 Propylene					CAS #: 115-07-1		
3.889	3.916 (0.257)	41	714626	51.0707	51.071	50.00- 150.00	100.00
3.889	3.916 (0.257)	42	480857			16.55- 116.55	67.29
3.889	3.916 (0.257)	39	570433			33.88- 133.88	79.82
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.276	4.303 (0.282)	85	1778345	49.0882	49.088	50.00- 150.00	100.00
4.276	4.303 (0.282)	87	563933			0.00- 83.90	31.71
11 Freon 114					CAS #: 76-14-2		
5.603	5.603 (0.370)	135	1015787	49.0437	49.044	50.00- 150.00	100.00
5.603	5.603 (0.370)	137	322019			0.00- 77.65	31.70
15 Chloromethane					CAS #: 74-87-3		
5.879	5.935 (0.388)	50	882058	48.2997	48.300	50.00- 150.00	100.00
5.879	5.935 (0.388)	52	269786			0.00- 82.13	30.59
22 Vinyl Chloride					CAS #: 75-01-4		
6.709	6.709 (0.443)	62	812871	48.1936	48.194	50.00- 150.00	100.00
6.709	6.709 (0.443)	64	241699			0.00- 80.05	29.73
23 1,3-Butadiene					CAS #: 106-99-0		
6.958	6.958 (0.460)	54	719365	41.0671	41.067	50.00- 150.00	100.00
6.958	6.958 (0.460)	39	795762			86.43- 186.43	110.62
25 Bromomethane					CAS #: 74-83-9		
8.479	8.506 (0.560)	94	329585	32.7728	32.773	50.00- 150.00	100.00(R)
8.479	8.506 (0.560)	96	308084			48.56- 148.56	93.48
28 Chloroethane					CAS #: 75-00-3		
9.004	9.031 (0.595)	64	448918	52.9946	52.994	50.00- 150.00	100.00
9.004	9.031 (0.595)	49	170286			0.00- 88.71	37.93
9.004	9.031 (0.595)	66	129383			0.00- 87.42	28.82
33 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.833	9.833 (0.649)	101	2201921	51.8036	51.804	50.00- 150.00	100.00
9.833	9.833 (0.649)	103	1412358			15.82- 115.82	64.14

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
10.884	10.884 (0.719)	45	750354	56.1081	56.108	50.00- 150.00	100.00
10.884	10.884 (0.719)	46	300048			0.00- 91.71	39.99
10.884	10.884 (0.719)	43	156167			0.00- 70.36	20.81
44 Freon 113					CAS #: 76-13-1		
11.354	11.354 (0.750)	151	1212590	51.3829	51.383	50.00- 150.00	100.00
11.354	11.354 (0.750)	153	757387			12.67- 112.67	62.46
11.354	11.354 (0.750)	101	1603975			80.55- 180.55	132.28
42 1,1-Dichloroethene					CAS #: 75-35-4		
11.326	11.354 (0.748)	61	2753099	54.0806	54.080	50.00- 150.00	100.00
11.326	11.354 (0.748)	96	1063319			0.00- 90.72	38.62
11.326	11.354 (0.748)	98	666437			0.00- 76.03	24.21
47 Acetone					CAS #: 67-64-1		
11.686	11.686 (0.772)	58	844518	49.3906	49.391	50.00- 150.00	100.00
11.686	11.686 (0.772)	43	3252479			344.44- 444.44	385.13
50 2-Propanol					CAS #: 67-63-0		
12.073	12.073 (0.797)	45	4101094	46.5550	46.555	50.00- 150.00	100.00
12.073	12.073 (0.797)	43	733371			0.00- 68.05	17.88
12.073	12.073 (0.797)	59	133250			0.00- 53.27	3.25
46 Carbon Disulfide					CAS #: 75-15-0		
11.713	11.713 (0.774)	76	2821741	53.7296	53.730	50.00- 150.00	100.00
53 3-Chloropropene					CAS #: 107-05-1		
12.266	12.266 (0.810)	76	442957	56.4229	56.423	50.00- 150.00	100.00
12.266	12.266 (0.810)	41	2358397			483.20- 583.20	532.42
56 Methylene Chloride					CAS #: 75-09-2		
12.571	12.571 (0.830)	49	2432588	55.9871	55.987	50.00- 150.00	100.00
12.571	12.571 (0.830)	84	960806			0.00- 90.49	39.50
12.571	12.571 (0.830)	51	726943			0.00- 80.60	29.88
60 MTBE					CAS #: 1634-04-4		
12.958	12.958 (0.856)	73	659903	51.1226	51.122	50.00- 150.00	100.00
12.958	12.958 (0.856)	57	219523			0.00- 90.40	33.27
12.958	12.958 (0.856)	41	221888			0.00- 86.90	33.62
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
12.985	12.985 (0.858)	96	1224496	51.5984	51.598	50.00- 150.00	100.00
12.985	12.985 (0.858)	61	2704704			168.31- 268.31	220.88
12.985	12.985 (0.858)	98	772068			15.63- 115.63	63.05

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
13.345	13.345 (0.881)	57	3465514	51.5718	51.572	50.00- 150.00	100.00
13.345	13.345 (0.881)	43	2520850			23.48- 123.48	72.74
13.345	13.345 (0.881)	86	380335			0.00- 61.00	10.97
69 Vinyl Acetate					CAS #: 108-05-4		
13.870	13.870 (0.916)	86	171162			50.00- 150.00	100.00(aR)
13.870	13.870 (0.916)	43	3035956			1925.49-2025.49	1773.73
67 1,1-Dichloroethane					CAS #: 75-34-3		
13.815	13.815 (0.912)	63	3250115	58.8631	58.863	50.00- 150.00	100.00
13.815	13.815 (0.912)	65	952095			0.00- 79.55	29.29
75 2-Butanone					CAS #: 78-93-3		
14.783	14.783 (0.976)	72	718174	52.0428	52.043	50.00- 150.00	100.00
14.783	14.783 (0.976)	43	5246023			672.62- 772.62	730.47
14.783	14.783 (0.976)	57	357912			4.23- 104.23	49.84
74 cis-1,2-Dichloroethene					CAS #: 156-59-2		
14.755	14.755 (0.974)	61	2672750	52.7634	52.763	50.00- 150.00	100.00
14.755	14.755 (0.974)	96	1363691			1.46- 101.46	51.02
14.755	14.755 (0.974)	98	849349			0.00- 82.67	31.78
79 Tetrahydrofuran					CAS #: 109-99-9		
15.114	15.114 (0.998)	42	3124361	51.7263	51.726	50.00- 150.00	100.00
15.114	15.114 (0.998)	71	661512			0.00- 71.85	21.17
15.114	15.114 (0.998)	72	720422			0.00- 72.55	23.06
82 Chloroform					CAS #: 67-66-3		
15.225	15.225 (1.005)	83	2879292	53.4908	53.491	50.00- 150.00	100.00
15.225	15.225 (1.005)	85	1846680			15.32- 115.32	64.14
84 1,1,1-Trichloroethane					CAS #: 71-55-6		
15.446	15.446 (1.020)	97	2556313	61.4471	61.447	50.00- 150.00	100.00
15.446	15.446 (1.020)	99	1633542			15.99- 115.99	63.90
83 Cyclohexane					CAS #: 110-82-7		
15.419	15.418 (1.018)	84	1910304	52.0668	52.067	50.00- 150.00	100.00
15.419	15.418 (1.018)	56	3616016			136.20- 236.20	189.29
15.419	15.418 (1.018)	41	2177746			63.21- 163.21	114.00
85 Carbon Tetrachloride					CAS #: 56-23-5		
15.640	15.640 (1.033)	119	2557872	53.6281	53.628	50.00- 150.00	100.00
15.640	15.640 (1.033)	117	2698419			53.35- 153.35	105.49
88 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.916	15.916 (1.051)	57	11773121	52.7841	52.784	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
88 2,2,4-Trimethylpentane (continued)							
15.916	15.916 (1.051)	56	3804168			0.00- 82.06	32.31
15.916	15.916 (1.051)	41	3307576			0.00- 79.19	28.09
90 Benzene					CAS #: 71-43-2		
15.999	16.027 (0.963)	78	4573031	49.9684	49.968	50.00- 150.00	100.00
15.999	16.027 (0.963)	77	1047585			0.00- 72.94	22.91
92 1,2-Dichloroethane					CAS #: 107-06-2		
16.137	16.137 (0.972)	62	2817175	54.1057	54.106	50.00- 150.00	100.00
16.137	16.137 (0.972)	64	865165			0.00- 82.17	30.71
94 Heptane					CAS #: 142-82-5		
16.193	16.193 (0.975)	71	1727922	51.6649	51.665	50.00- 150.00	100.00
16.193	16.193 (0.975)	43	5287998			254.97- 354.97	306.03
16.193	16.193 (0.975)	57	2402395			87.76- 187.76	139.03
97 Trichloroethene					CAS #: 79-01-6		
16.995	16.994 (1.023)	95	1957129	52.4049	52.405	50.00- 150.00	100.00
16.995	16.994 (1.023)	130	1791372			42.97- 142.97	91.53
16.995	16.994 (1.023)	97	1244186			15.62- 115.62	63.57
101 1,2-Dichloropropane					CAS #: 78-87-5		
17.465	17.465 (1.052)	63	2189868	52.2747	52.275	50.00- 150.00	100.00
17.465	17.465 (1.052)	62	1567682			22.56- 122.56	71.59
17.465	17.465 (1.052)	41	1661737			28.76- 128.76	75.88
103 1,4-Dioxane					CAS #: 123-91-1		
17.603	17.603 (1.060)	88	1117979	49.8858	49.886	50.00- 150.00	100.00
17.603	17.603 (1.060)	58	1229546			60.31- 160.31	109.98
17.603	17.603 (1.060)	57	391579			0.00- 85.51	35.03
105 Bromodichloromethane					CAS #: 75-27-4		
17.852	17.852 (1.075)	83	3274719	52.9771	52.977	50.00- 150.00	100.00
17.852	17.852 (1.075)	85	2080875			14.40- 114.40	63.54
109 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.515	18.515 (1.115)	75	2743966	53.0247	53.025	50.00- 150.00	100.00
18.515	18.515 (1.115)	77	868025			0.00- 81.53	31.63
18.515	18.515 (1.115)	39	2303604			33.47- 133.47	83.95
110 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.681	18.681 (1.125)	58	2367823	50.8611	50.861	50.00- 150.00	100.00
18.681	18.681 (1.125)	43	7061130			246.81- 346.81	298.21
18.681	18.681 (1.125)	85	701932			0.00- 80.93	29.64

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
112 Toluene					CAS #: 108-88-3		
18.958	18.958 (1.141)	91	5823383	54.7075	54.707	50.00- 150.00	100.00
18.958	18.958 (1.141)	92	3487528			10.86- 110.86	59.89
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.317	19.317 (0.922)	75	2883755	54.5041	54.504	50.00- 150.00	100.00
19.317	19.317 (0.922)	77	903254			0.00- 81.70	31.32
19.317	19.317 (0.922)	39	2252029			31.07- 131.07	78.09
116 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.594	19.593 (0.935)	97	1939384	50.9930	50.993	50.00- 150.00	100.00
19.594	19.593 (0.935)	99	1203961			12.75- 112.75	62.08
19.594	19.593 (0.935)	83	1671243			36.04- 136.04	86.17
117 Tetrachloroethene					CAS #: 127-18-4		
19.704	19.704 (0.941)	166	2349973	50.7047	50.705	50.00- 150.00	100.00
19.704	19.704 (0.941)	129	1761577			26.82- 126.82	74.96
19.704	19.704 (0.941)	131	1708099			23.22- 123.22	72.69
119 2-Hexanone					CAS #: 591-78-6		
19.842	19.842 (0.947)	58	3480233	48.6418	48.642	50.00- 150.00	100.00
19.842	19.842 (0.947)	43	7358734			163.36- 263.36	211.44
19.842	19.842 (0.947)	100	499549			0.00- 64.00	14.35
121 Dibromochloromethane					CAS #: 124-48-1		
20.174	20.174 (0.963)	129	2978447	51.1821	51.182	50.00- 150.00	100.00
20.174	20.174 (0.963)	127	2327009			28.55- 128.55	78.13
122 1,2-Dibromoethane					CAS #: 106-93-4		
20.395	20.395 (0.974)	107	2941104	48.1776	48.178	50.00- 150.00	100.00
20.395	20.395 (0.974)	109	2789432			46.04- 146.04	94.84
124 Chlorobenzene					CAS #: 108-90-7		
21.004	21.004 (1.003)	112	4818460	49.4449	49.445	50.00- 150.00	100.00
21.004	21.004 (1.003)	114	1495049			0.00- 82.11	31.03
20.976	21.004 (1.001)	77	3893483			36.59- 136.59	80.80
125 Ethyl Benzene					CAS #: 100-41-4		
21.059	21.059 (1.005)	106	2570620	49.6676	49.668	50.00- 150.00	100.00
21.059	21.059 (1.005)	91	8563510			278.40- 378.40	333.13
128 m,p-Xylene					CAS #: 108-38-3		
21.197	21.197 (1.012)	106	3268929	49.9885	49.988	50.00- 150.00	100.00
21.197	21.197 (1.012)	91	6942190			159.22- 259.22	212.37
129 o-Xylene					CAS #: 95-47-6		
21.750	21.750 (1.038)	106	3064177	51.6373	51.637	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
129 o-Xylene (continued)							
21.750	21.750 (1.038)	91	6787018			173.83- 273.83	221.50
130 Styrene					CAS #: 100-42-5		
21.778	21.778 (1.040)	104	5110572	49.8606	49.861	50.00- 150.00	100.00
21.778	21.778 (1.040)	78	2777449			4.23- 104.23	54.35
132 Bromoform					CAS #: 75-25-2		
22.137	22.137 (1.057)	173	2924830	53.1796	53.180	50.00- 150.00	100.00
22.137	22.137 (1.057)	171	1495324			2.20- 102.20	51.13
133 Cumene					CAS #: 98-82-8		
22.193	22.192 (1.059)	105	9418259	49.5240	49.524	50.00- 150.00	100.00
22.193	22.192 (1.059)	120	2343694			0.00- 75.11	24.88
22.193	22.192 (1.059)	51	1576512			0.00- 67.68	16.74
136 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
22.663	22.663 (1.082)	83	4808196	55.6444	55.644	50.00- 150.00	100.00
22.663	22.663 (1.082)	85	3034601			12.62- 112.62	63.11
139 Propylbenzene					CAS #: 103-65-1		
22.746	22.746 (1.086)	91	12106251	54.9634	54.963	50.00- 150.00	100.00
22.746	22.746 (1.086)	120	2512279			0.00- 71.22	20.75
22.746	22.746 (1.086)	105	432621			0.00- 54.12	3.57
142 4-Ethyltoluene					CAS #: 622-96-8		
22.884	22.884 (1.092)	105	10200772	53.9713	53.971	50.00- 150.00	100.00
22.884	22.884 (1.092)	120	2847971			0.00- 78.13	27.92
144 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
22.967	22.967 (1.096)	105	10014737	48.8256	48.826	50.00- 150.00	100.00
22.967	22.967 (1.096)	120	4328598			0.00- 93.95	43.22
149 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
23.465	23.464 (1.120)	105	7847207	48.4855	48.485	50.00- 150.00	100.00
23.465	23.464 (1.120)	120	3379776			0.00- 93.08	43.07
154 1,3-Dichlorobenzene					CAS #: 541-73-1		
23.935	23.962 (1.143)	146	4515195	53.3656	53.366	50.00- 150.00	100.00
23.935	23.962 (1.143)	148	2827837			12.34- 112.34	62.63
23.935	23.962 (1.143)	111	2081874			0.00- 95.73	46.11
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.073	24.073 (1.149)	146	4432124	52.3048	52.305	50.00- 150.00	100.00
24.073	24.073 (1.149)	148	2806064			11.83- 111.83	63.31
24.073	24.073 (1.149)	111	1955362			0.00- 94.91	44.12

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
158 alpha-Chlorotoluene					CAS #: 100-44-7		
24.239	24.239 (1.157)	91	7116745	56.0317	56.032	50.00- 150.00	100.00
24.239	24.239 (1.157)	126	1354938			0.00- 71.00	19.04
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
24.570	24.570 (1.173)	146	3985297	51.9575	51.958	50.00- 150.00	100.00
24.570	24.570 (1.173)	148	2529712			11.41- 111.41	63.48
24.570	24.570 (1.173)	111	1891483			0.00- 95.44	47.46
166 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
26.700	26.699 (1.275)	180	2547439	51.2515	51.251	50.00- 150.00	100.00
26.700	26.699 (1.275)	182	2367767			46.69- 146.69	92.95
167 Hexachlorobutadiene					CAS #: 87-68-3		
26.782	26.782 (1.278)	225	2075510	51.7728	51.773	50.00- 150.00	100.00
26.782	26.782 (1.278)	223	1297772			14.15- 114.15	62.53
168 Naphthalene					CAS #: 91-20-3		
27.114	27.114 (1.294)	128	5587822	49.2984	49.298	50.00- 150.00	100.00
27.114	27.114 (1.294)	127	719285			0.00- 65.25	12.87
29 Isopentane					CAS #: 78-78-4		
9.142	9.142 (0.604)	43	1721673	50.0832	50.083	50.00- 150.00	100.00
9.142	9.142 (0.604)	57	1033752			9.74- 109.74	60.04
20 Butane					CAS #: 106-97-8		
6.598	6.598 (0.436)	58	190486	50.0805	50.080	50.00- 150.00	100.00
6.598	6.598 (0.436)	43	1594936			830.20- 930.20	837.30
99 Methyl Cyclohexane					CAS #: 108-87-2		
17.216	17.216 (1.137)	83	2795939	52.0062	52.006	50.00- 150.00	100.00
17.216	17.216 (1.137)	98	1321222			0.00- 99.54	47.26
17.216	17.216 (1.137)	55	3710026			81.83- 181.83	132.69
58 tert-Butyl-Alcohol					CAS #: 75-65-0		
12.847	12.847 (0.848)	59	1067461	45.2633	45.263	50.00- 150.00	100.00
12.819	12.847 (0.847)	41	255085			0.00- 75.27	23.90
12.847	12.847 (0.848)	57	128232			0.00- 64.67	12.01

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y093015.d
Lab Smp Id: LCS-Curve
Analysis Type: VOA
Quant Type: ISTD
Operator: db
Method File: /chem/msdy.i/30sep08.b/t14q930a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 30-SEP-2008
Calibration Time: 22:22
Client Smp ID: LCS-Curve
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	366277	219766	512788	364737	-0.42
95 1,4-Difluorobenze	1847900	1108740	2587060	1835389	-0.68
123 Chlorobenzene-d5	1826829	1096097	2557561	1807697	-1.05

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	15.14	14.81	15.47	15.14	0.00
95 1,4-Difluorobenze	16.61	16.28	16.94	16.61	0.00
123 Chlorobenzene-d5	20.95	20.62	21.28	20.95	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.

Report Date: 01-Oct-2008 09:40

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 30sep08
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-Curve Client Smp ID: LCS-Curve
Level: LOW Operator: db
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msdy.i/30sep08.b/t14q930a.m
Misc Info: 200ppbv -> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
5 Propylene	50.000	51.071	102.14	60-140
7 Dichlorodifluorome	50.000	49.088	98.18	70-130
11 Freon 114	50.000	49.044	98.09	70-130
15 Chloromethane	50.000	48.300	96.60	70-130
22 Vinyl Chloride	50.000	48.194	96.39	70-130
23 1,3-Butadiene	50.000	41.067	82.13	60-140
25 Bromomethane	50.000	32.773	65.55*	70-130
28 Chloroethane	50.000	52.994	105.99	70-130
33 Trichlorofluoromet	50.000	51.804	103.61	70-130
39 Ethanol	50.000	56.108	112.22	60-140
44 Freon 113	50.000	51.383	102.77	70-130
42 1,1-Dichloroethene	50.000	54.080	108.16	70-130
47 Acetone	50.000	49.391	98.78	60-140
46 Carbon Disulfide	50.000	53.730	107.46	60-140
50 2-Propanol	50.000	46.555	93.11	60-140
56 Methylene Chloride	50.000	55.987	111.97	70-130
60 MTBE	50.000	51.122	102.25	60-140
61 trans-1,2-Dichloro	50.000	51.598	103.20	60-140
65 Hexane	50.000	51.572	103.14	60-140
69 Vinyl Acetate	50.000	0.000	0.00*	60-140
67 1,1-Dichloroethane	50.000	58.863	117.73	70-130
74 cis-1,2-Dichloroet	50.000	52.763	105.53	70-130
75 2-Butanone	50.000	52.043	104.09	60-140
79 Tetrahydrofuran	50.000	51.726	103.45	60-140
82 Chloroform	50.000	53.491	106.98	70-130
83 Cyclohexane	50.000	52.067	104.13	60-140
84 1,1,1-Trichloroeth	50.000	61.447	122.89	70-130
85 Carbon Tetrachlori	50.000	53.628	107.26	70-130
90 Benzene	50.000	49.968	99.94	70-130
92 1,2-Dichloroethane	50.000	54.106	108.21	70-130
94 Heptane	50.000	51.665	103.33	60-140
97 Trichloroethene	50.000	52.405	104.81	70-130
101 1,2-Dichloropropan	50.000	52.275	104.55	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
103 1,4-Dioxane	50.000	49.886	99.77	60-140
105 Bromodichlorometha	50.000	52.977	105.95	60-140
109 cis-1,3-Dichloropr	50.000	53.025	106.05	70-130
110 4-Methyl-2-pentano	50.000	50.861	101.72	60-140
112 Toluene	50.000	54.707	109.41	70-130
113 trans-1,3-Dichloro	50.000	54.504	109.01	70-130
116 1,1,2-Trichloroeth	50.000	50.993	101.99	70-130
117 Tetrachloroethene	50.000	50.705	101.41	70-130
119 2-Hexanone	50.000	48.642	97.28	60-140
121 Dibromochlorometha	50.000	51.182	102.36	60-140
122 1,2-Dibromoethane	50.000	48.178	96.36	70-130
124 Chlorobenzene	50.000	49.445	98.89	70-130
125 Ethyl Benzene	50.000	49.668	99.34	70-130
128 m,p-Xylene	50.000	49.988	99.98	70-130
129 o-Xylene	50.000	51.637	103.27	70-130
130 Styrene	50.000	49.861	99.72	70-130
132 Bromoform	50.000	53.180	106.36	60-140
136 1,1,2,2-Tetrachlor	50.000	55.644	111.29	70-130
142 4-Ethyltoluene	50.000	53.971	107.94	60-140
144 1,3,5-Trimethylben	50.000	48.826	97.65	70-130
149 1,2,4-Trimethylben	50.000	48.485	96.97	70-130
154 1,3-Dichlorobenzen	50.000	53.366	106.73	70-130
156 1,4-Dichlorobenzen	50.000	52.305	104.61	70-130
158 alpha-Chlorotoluen	50.000	56.032	112.06	70-130
161 1,2-Dichlorobenzen	50.000	51.958	103.92	70-130
166 1,2,4-Trichloroben	50.000	51.251	102.50	70-130
167 Hexachlorobutadien	50.000	51.773	103.55	70-130
139 Propylbenzene	50.000	54.963	109.93	60-140
133 Cumene	50.000	49.524	99.05	60-140
53 3-Chloropropene	50.000	56.423	112.85	60-140
88 2,2,4-Trimethylpen	50.000	52.784	105.57	60-140
29 Isopentane	50.000	50.083	100.17	70-130
20 Butane	50.000	50.080	100.16	70-130
99 Methyl Cyclohexane	50.000	52.006	104.01	70-130
58 tert-Butyl-Alcohol	50.000	45.263	90.53	60-140
168 Naphthalene	50.000	49.298	98.60	60-140

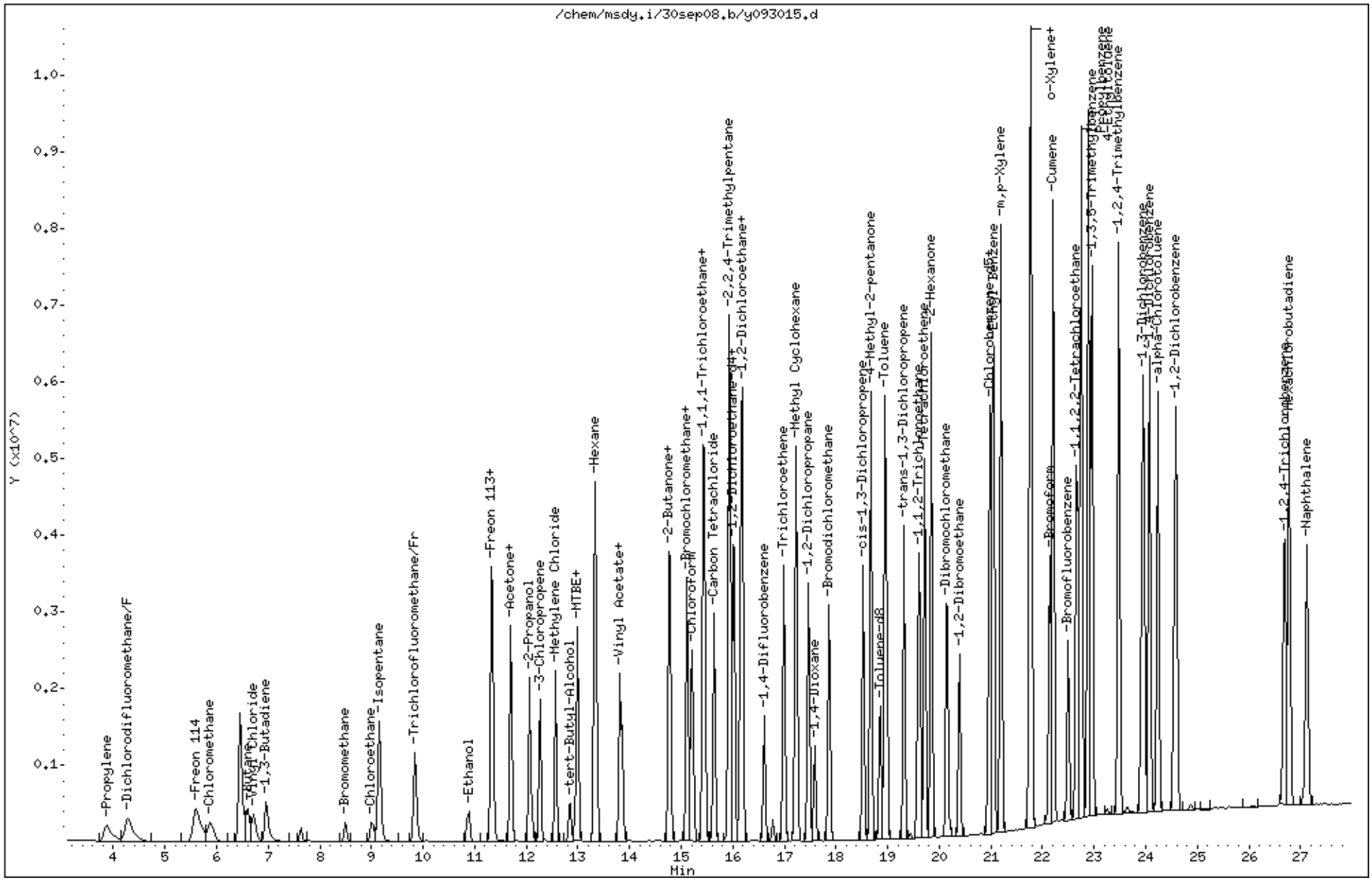
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 89 1,2-Dichloroethane	25.000	24.719	98.88	70-130
$ 111 Toluene-d8	25.000	25.019	100.08	70-130
$ 135 Bromofluorobenzene	25.000	25.083	100.33	70-130

Data File: /chem/msdy.i/30sep08.b/y093015.d
Date : 01-OCT-2008 09:30
Client ID: LCS-Curve
Sample Info: 50mL #1612-164

Instrument: msdy.i

Operator: db
Column diameter: 0.53

Column phase: RTx-624



0075

Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

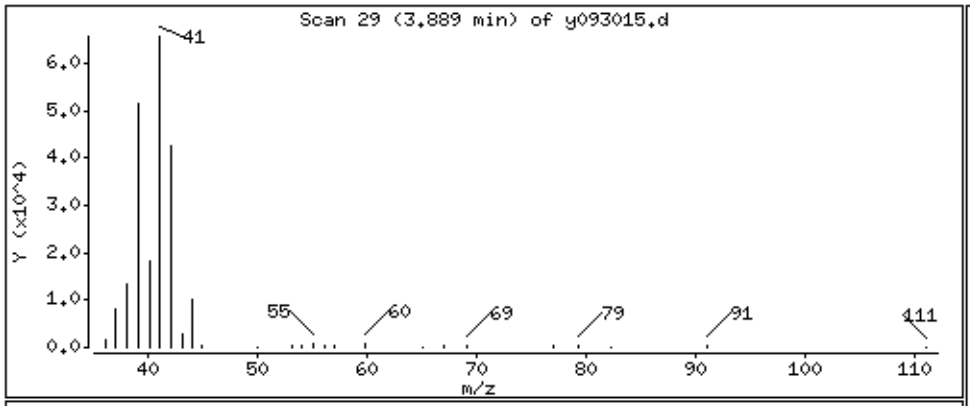
Operator: db

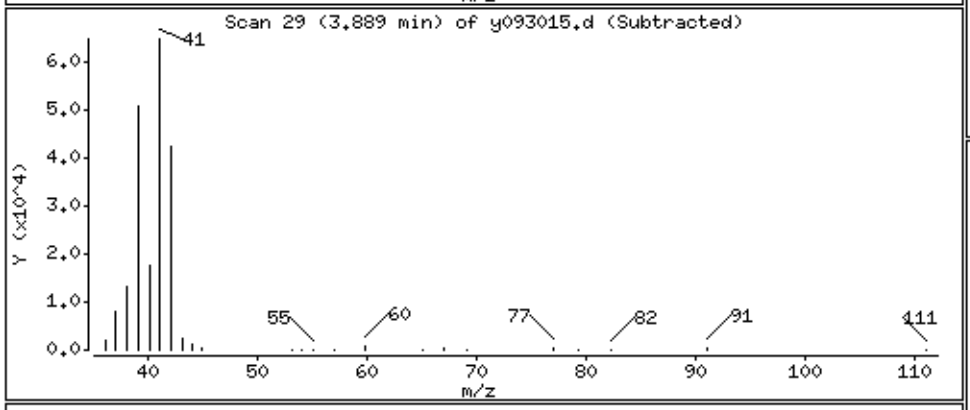
Column phase: RTx-624

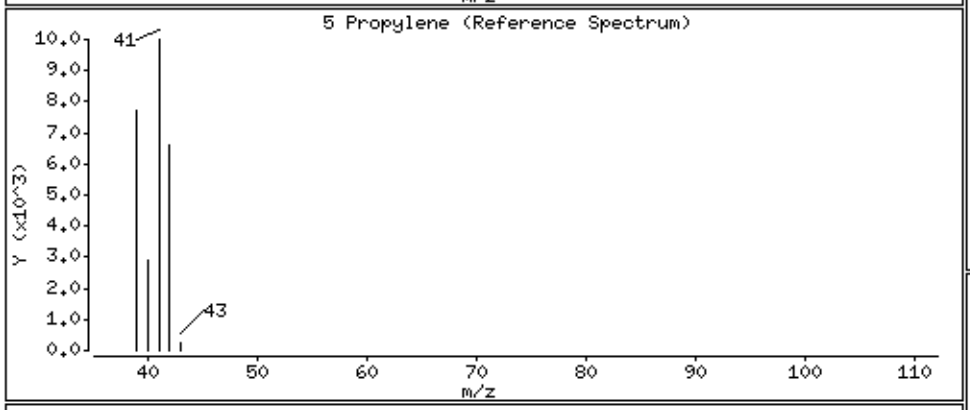
Column diameter: 0.53

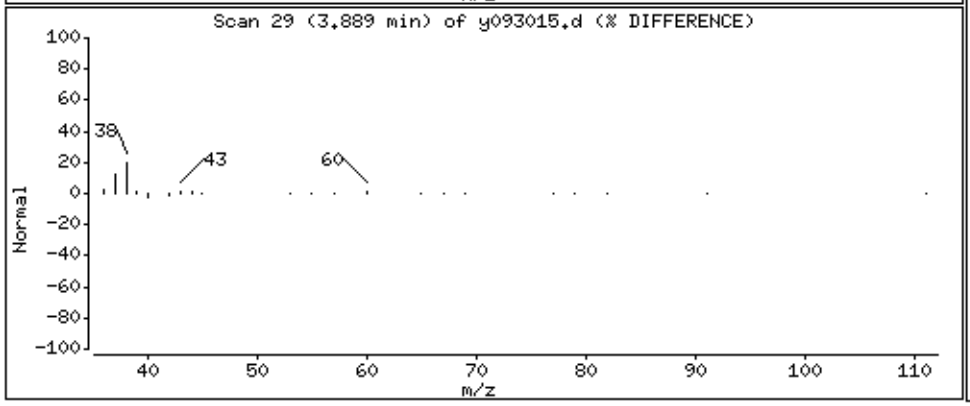
5 Propylene

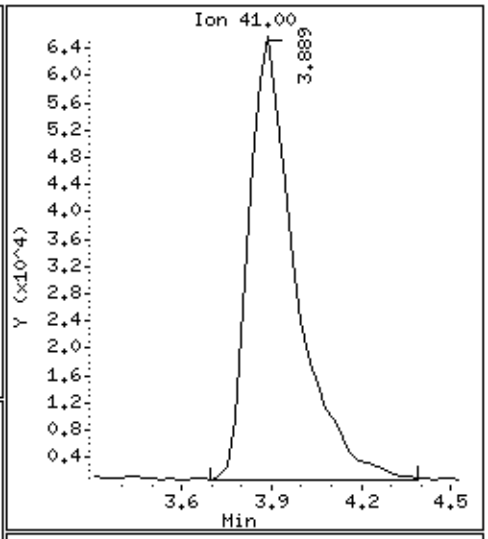
Concentration: 51.071 PPBV

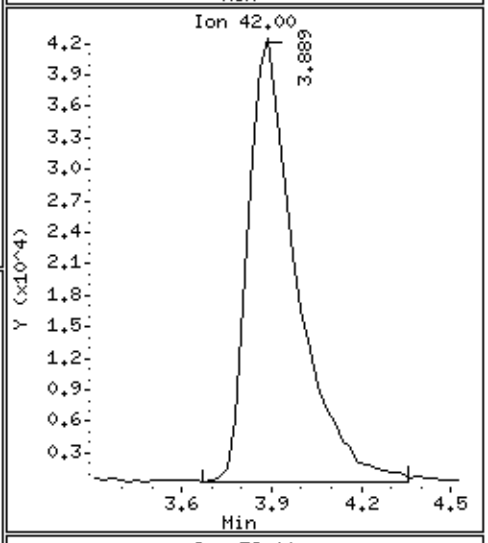


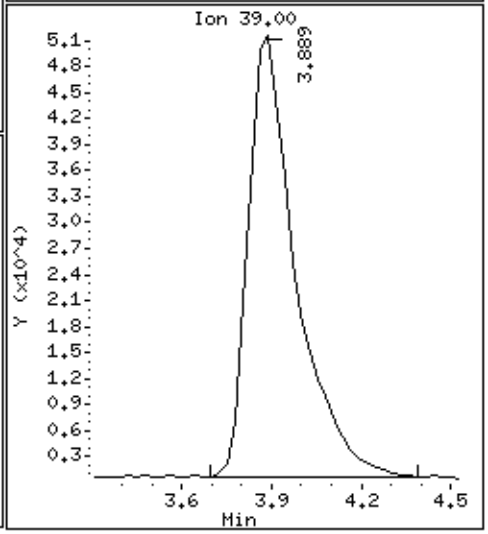












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

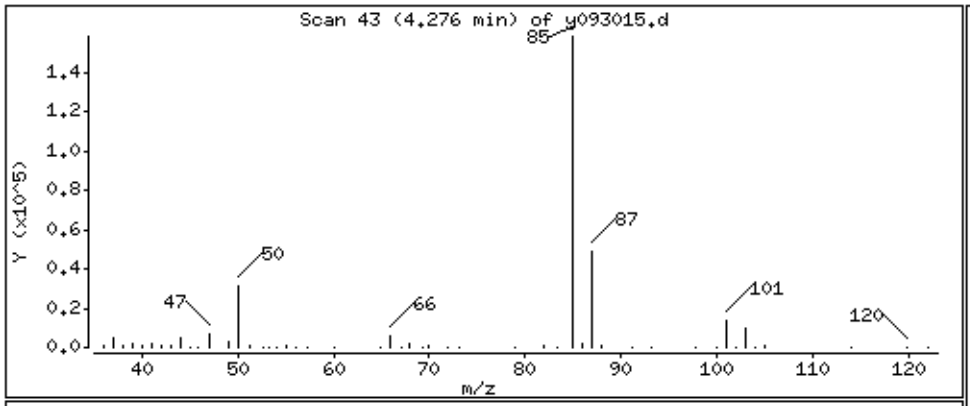
Operator: db

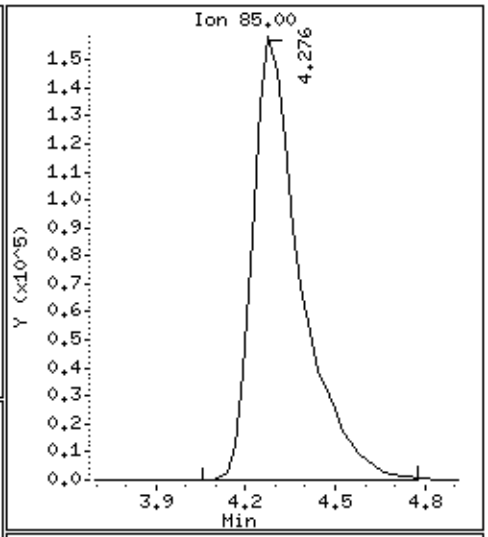
Column phase: RTx-624

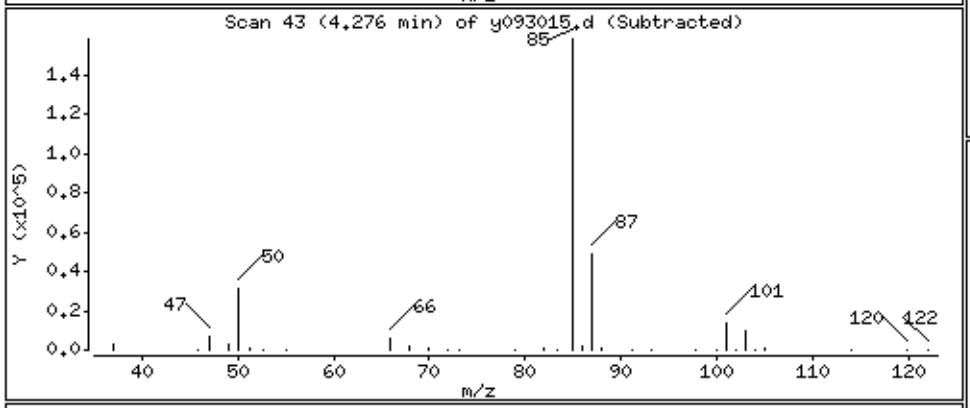
Column diameter: 0.53

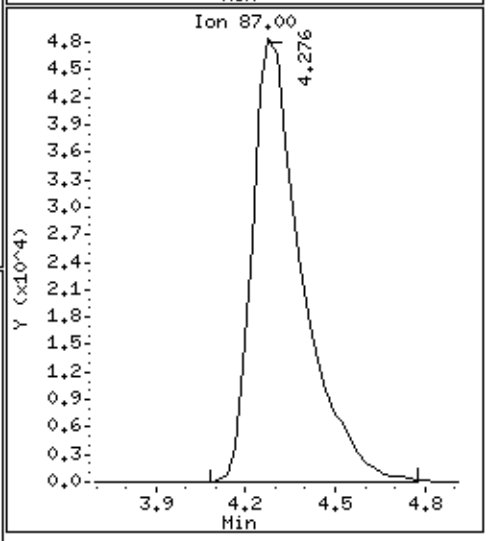
7 Dichlorodifluoromethane/Fr12

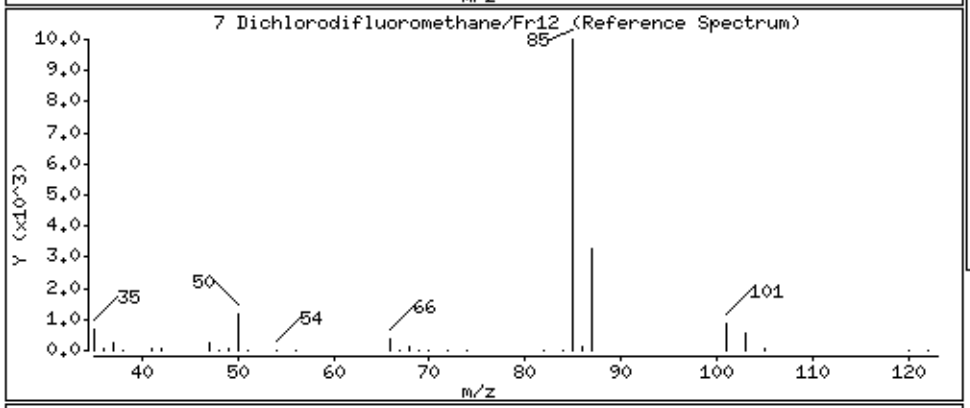
Concentration: 49.088 PPBV

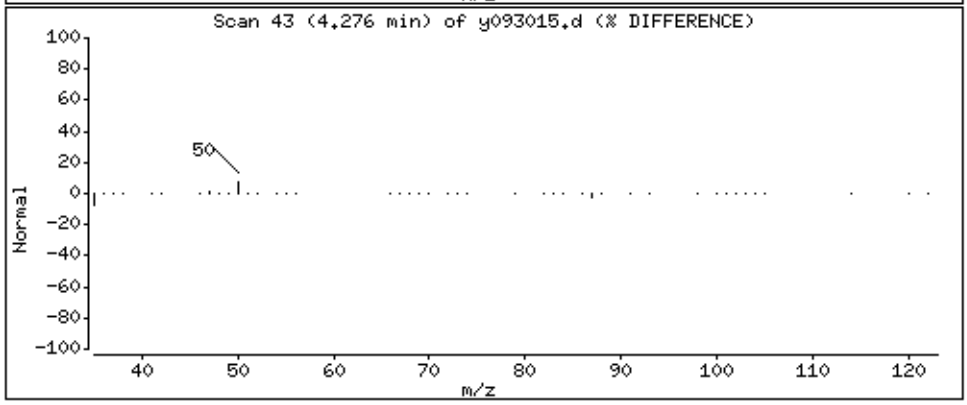












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

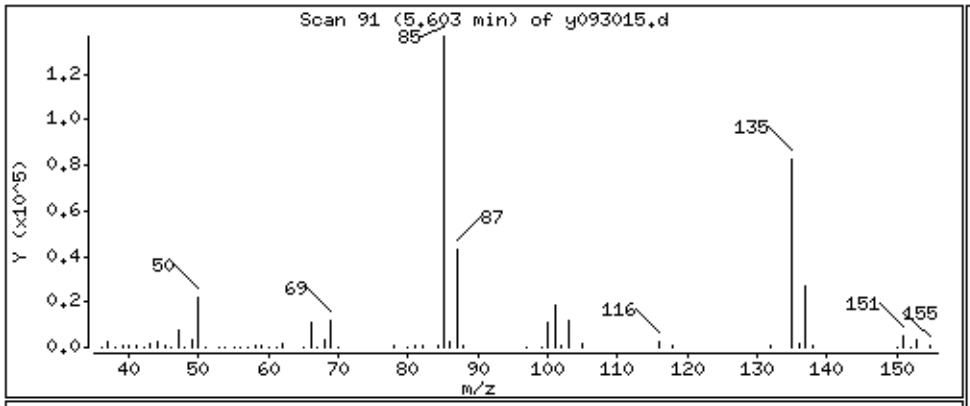
Operator: db

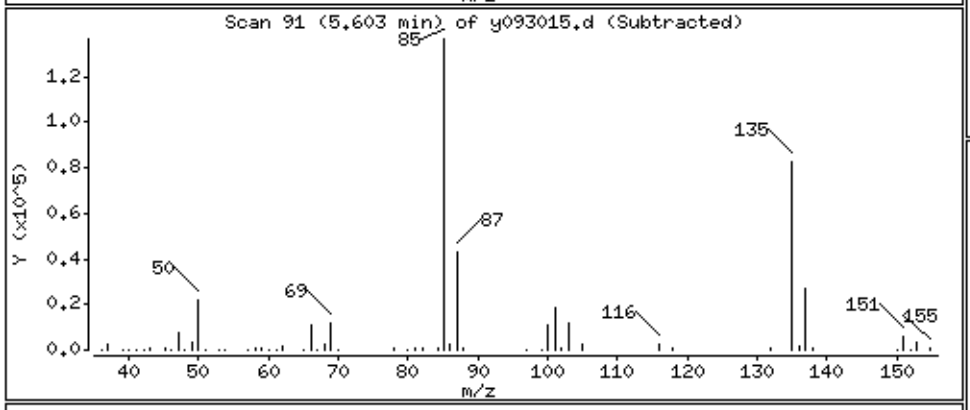
Column phase: RTx-624

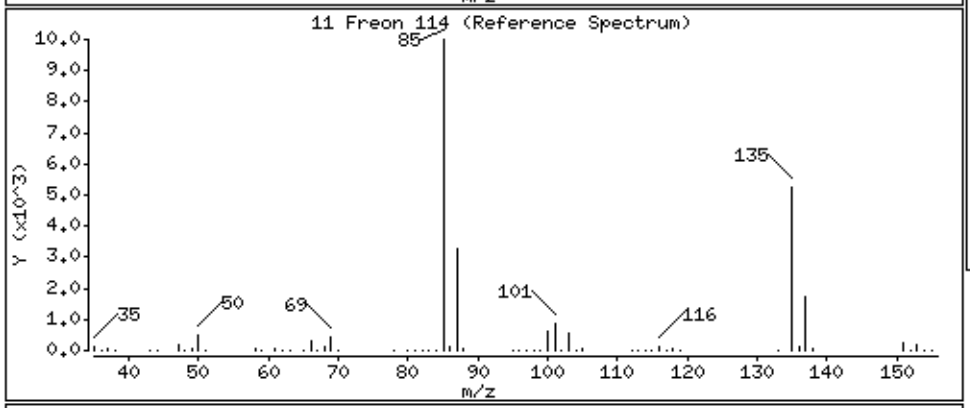
Column diameter: 0.53

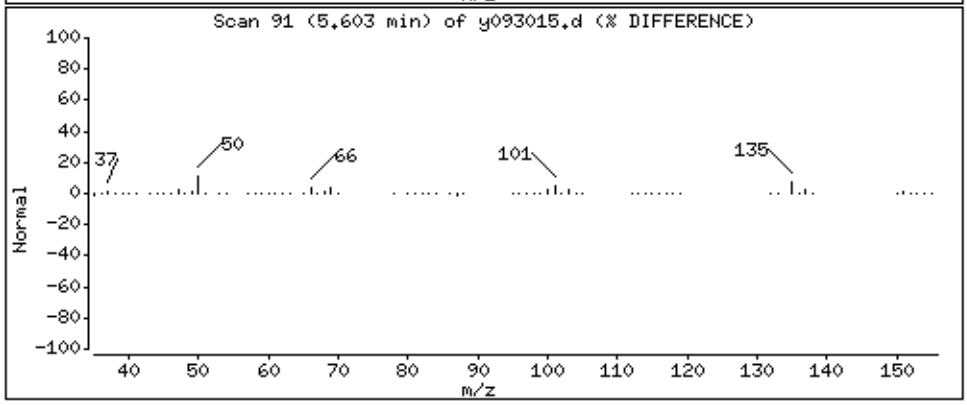
11 Freon 114

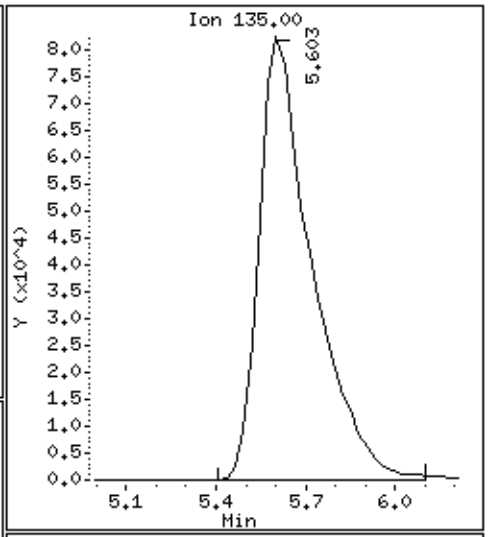
Concentration: 49.044 PPBV

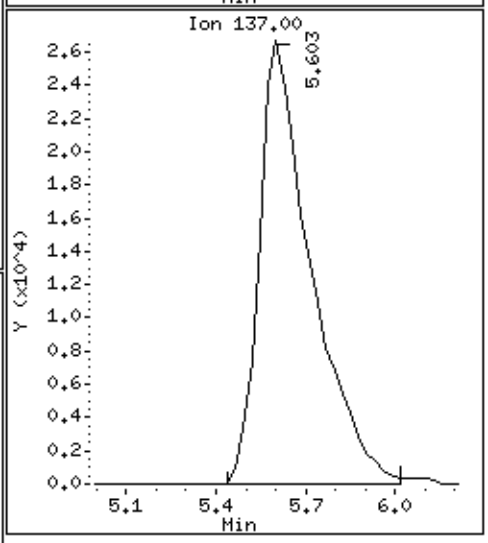












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

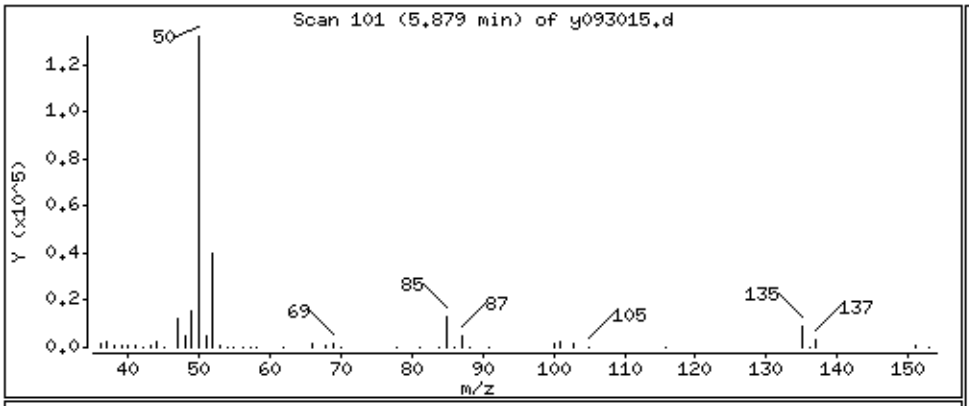
Operator: db

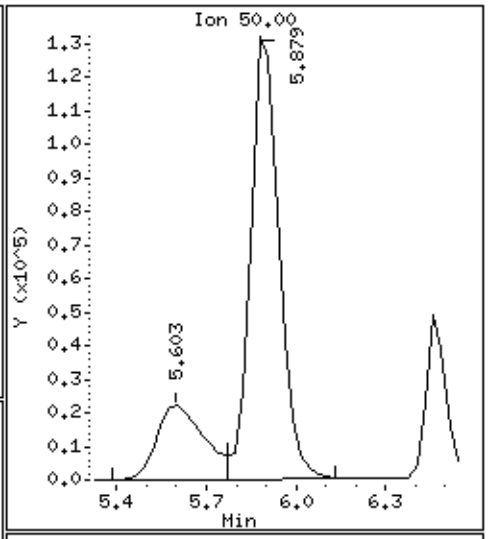
Column phase: RTx-624

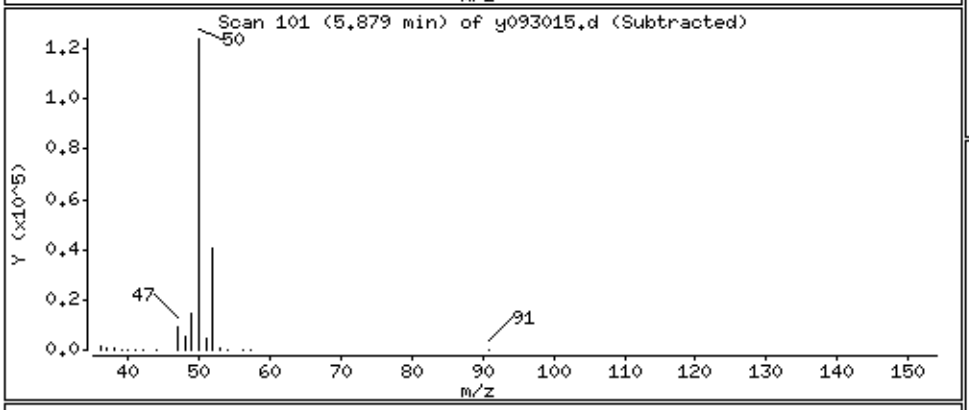
Column diameter: 0.53

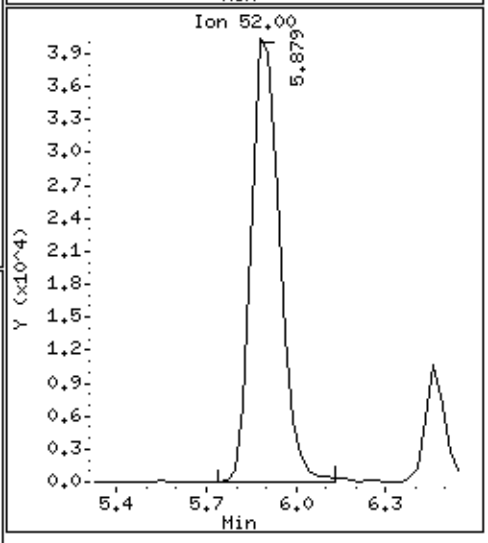
15 Chloromethane

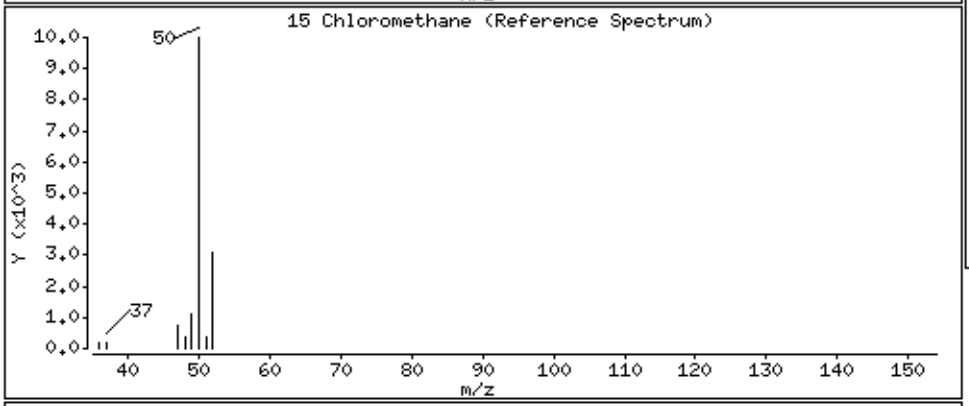
Concentration: 48.300 PPBV

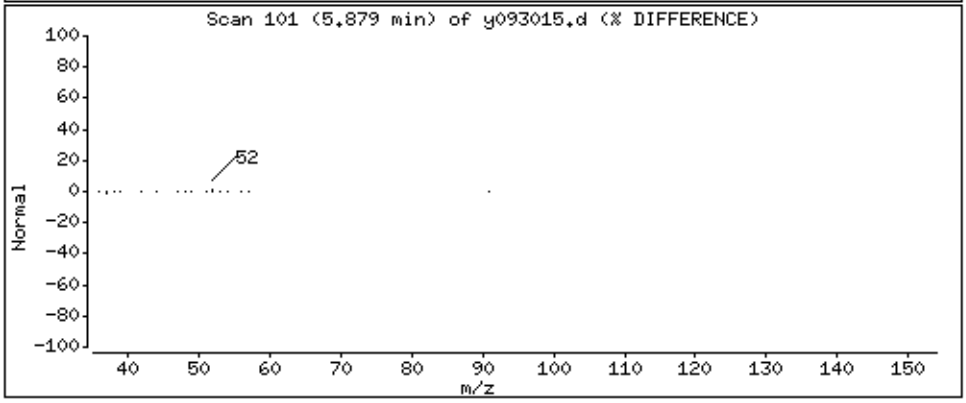












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

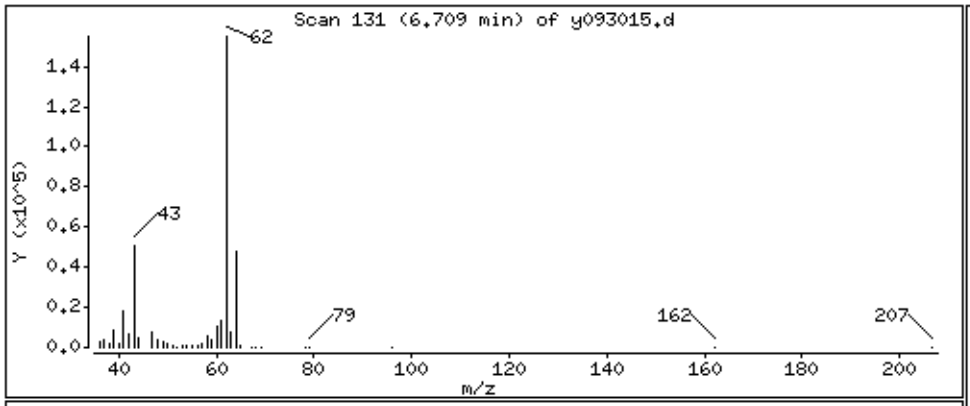
Operator: db

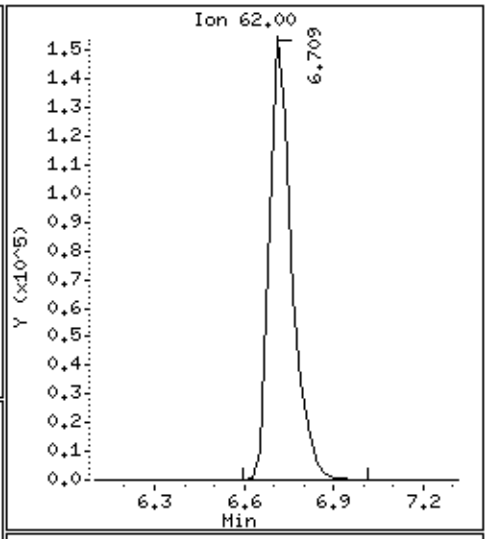
Column phase: RTx-624

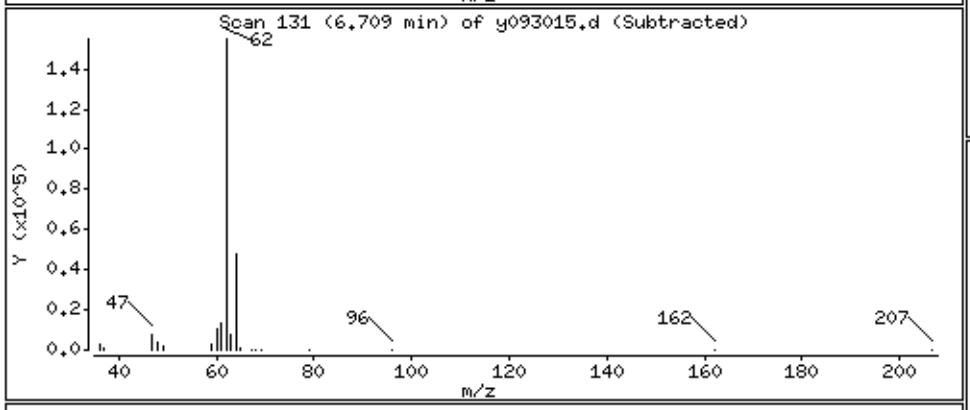
Column diameter: 0.53

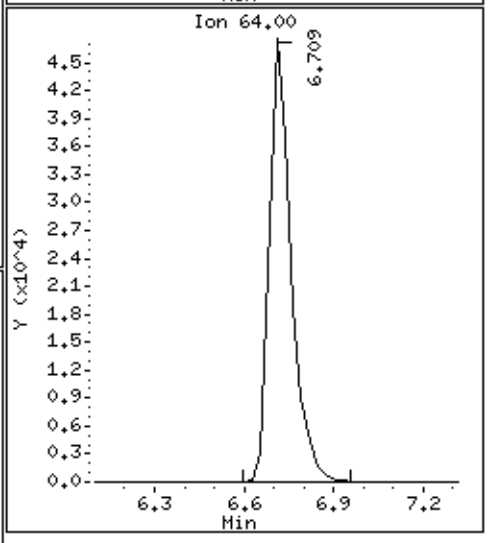
22 Vinyl Chloride

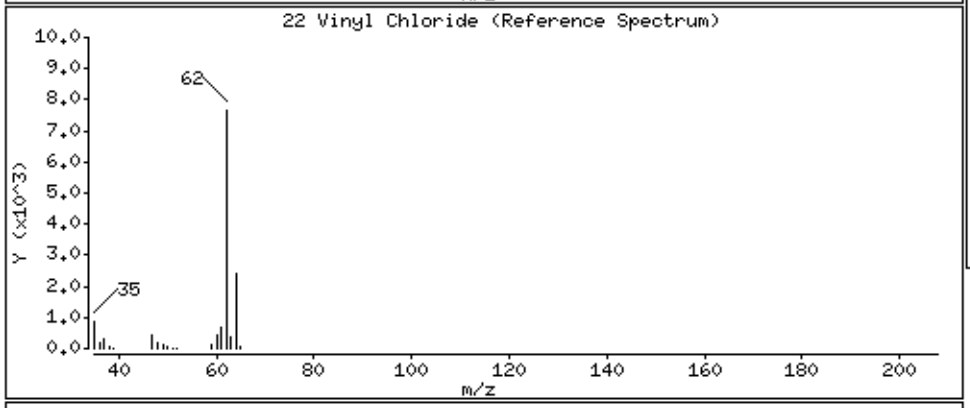
Concentration: 48.194 PPBV

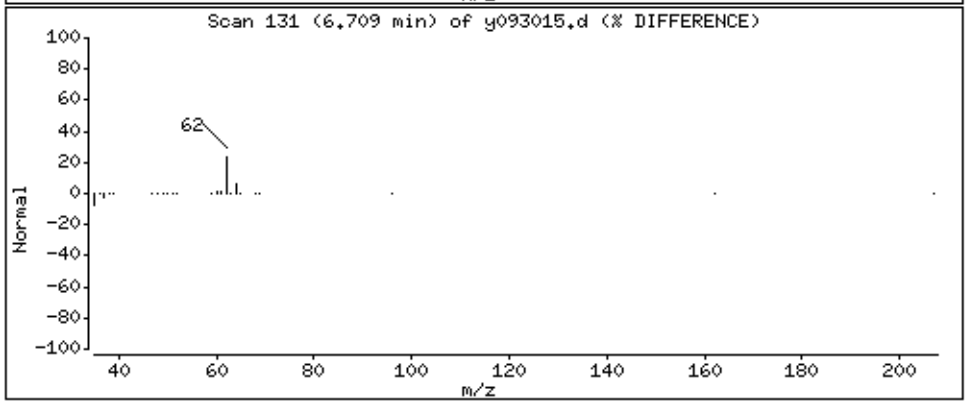












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

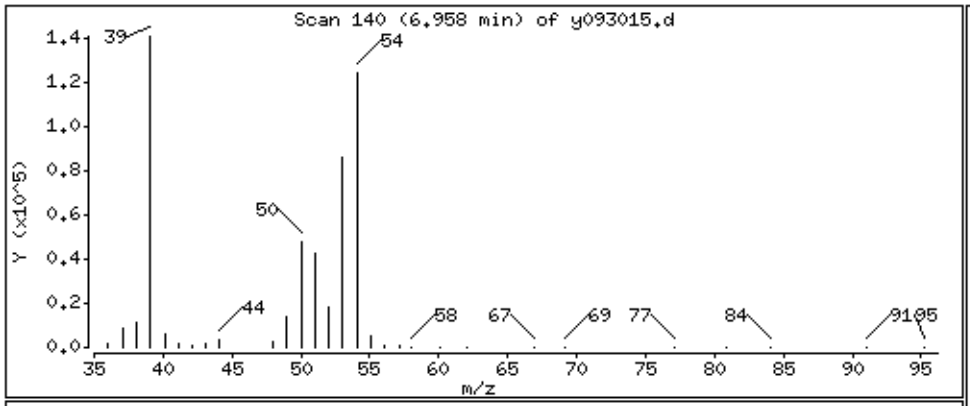
Operator: db

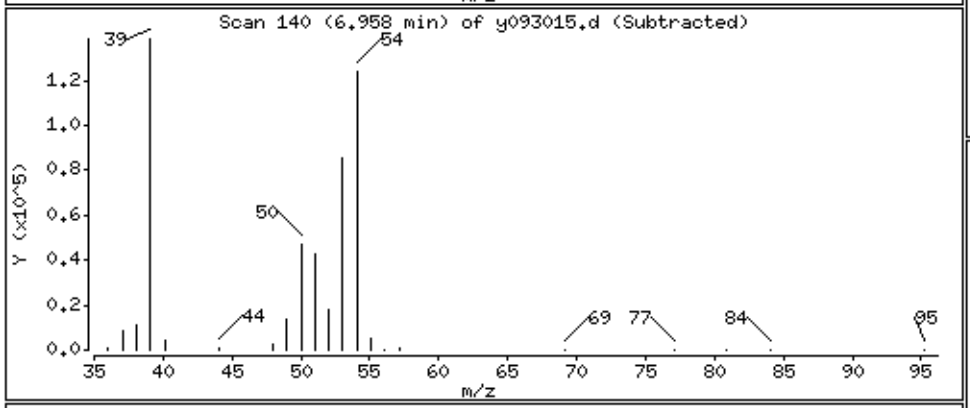
Column phase: RTx-624

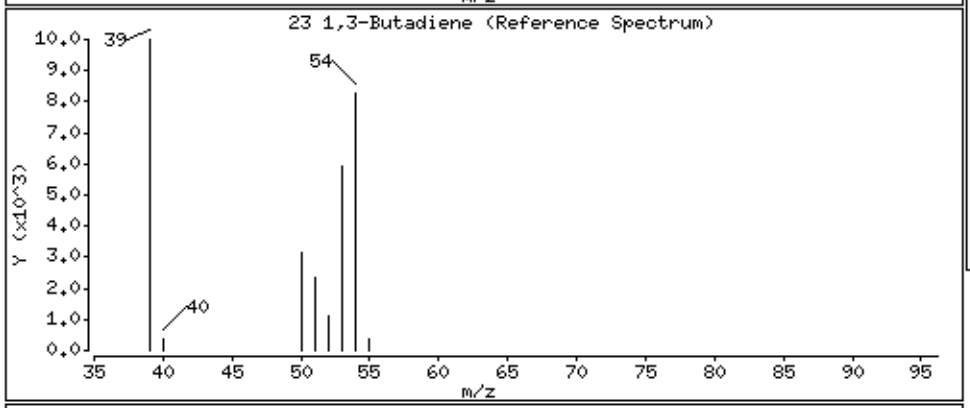
Column diameter: 0.53

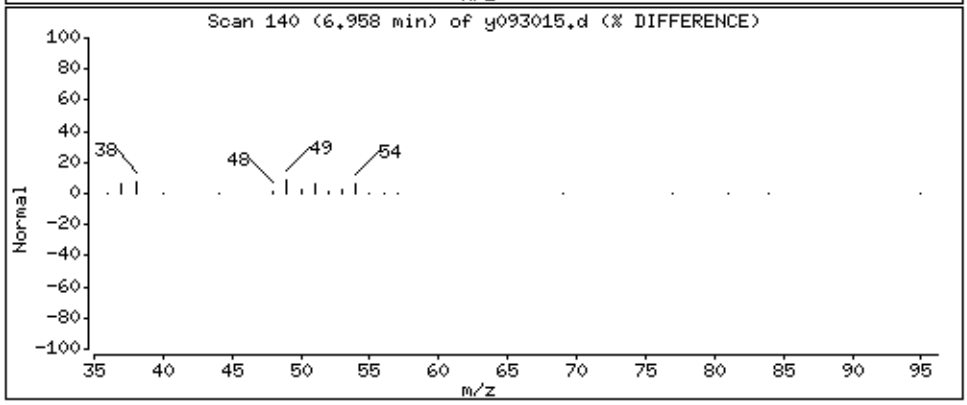
23 1,3-Butadiene

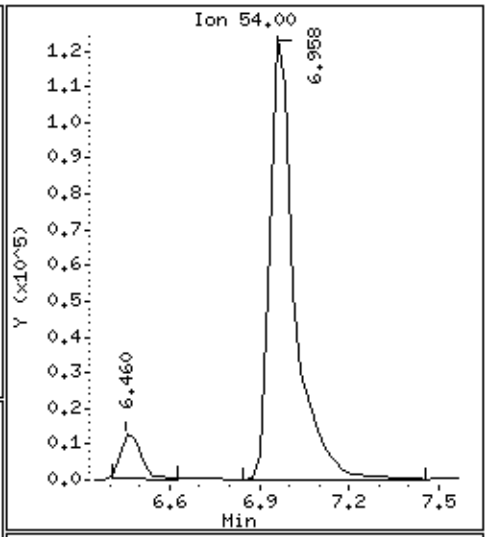
Concentration: 41.067 PPBV

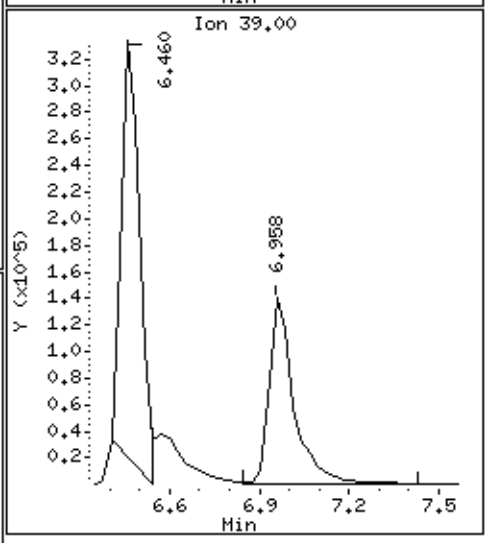












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

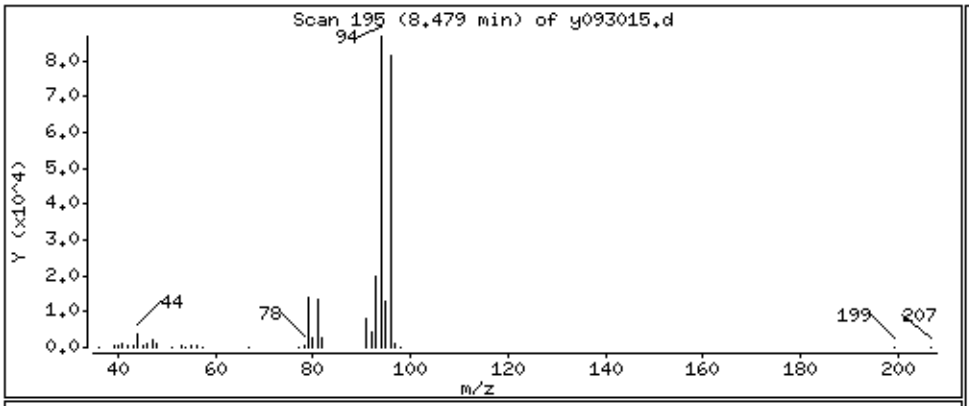
Operator: db

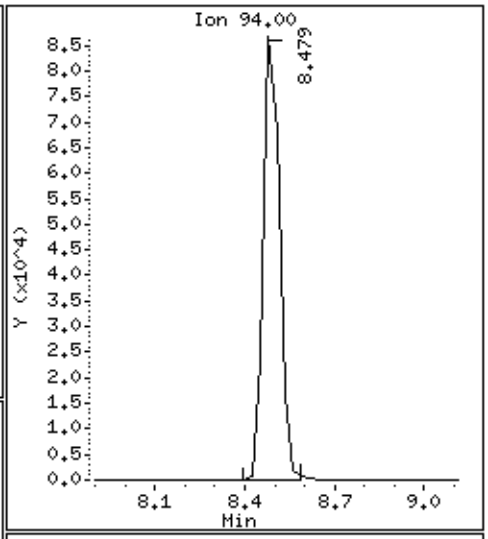
Column phase: RTx-624

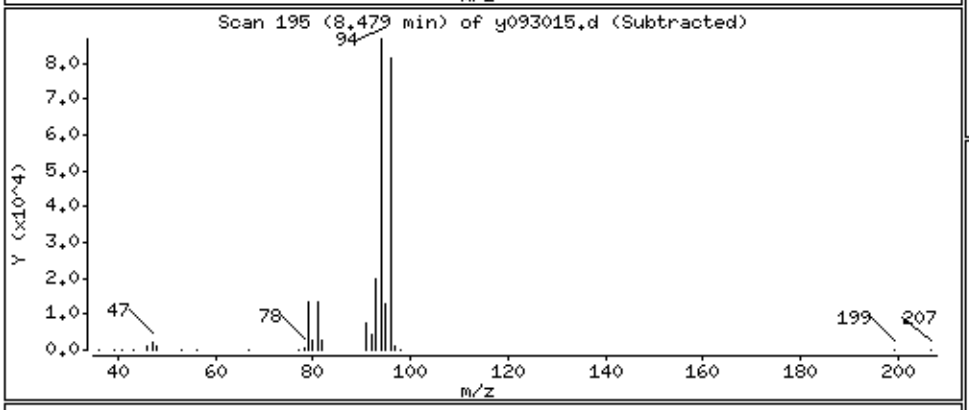
Column diameter: 0.53

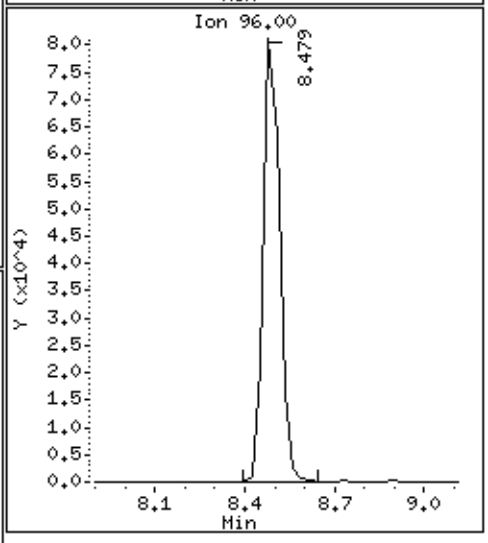
25 Bromomethane

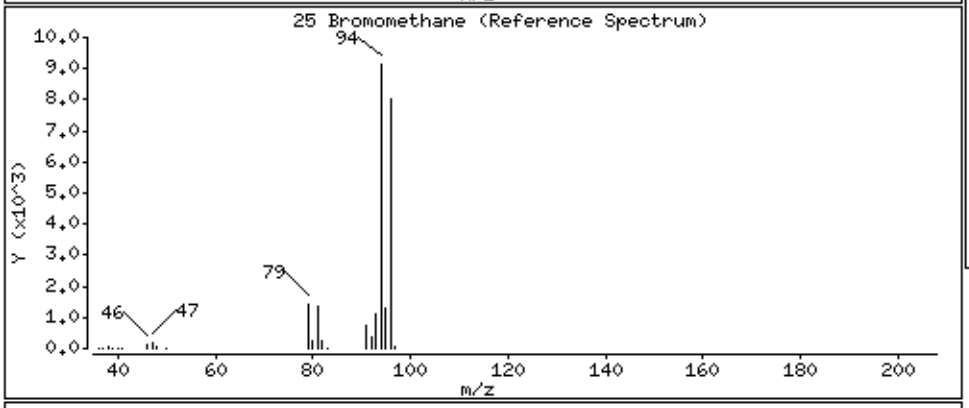
Concentration: 32.773 PPBV

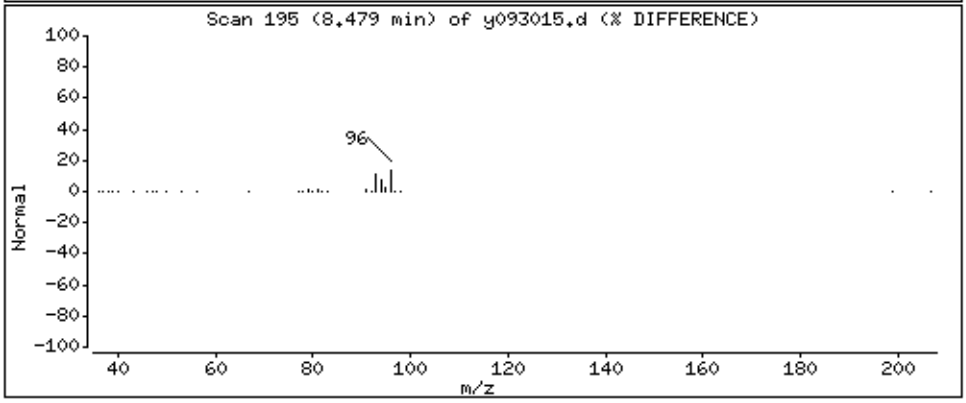












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

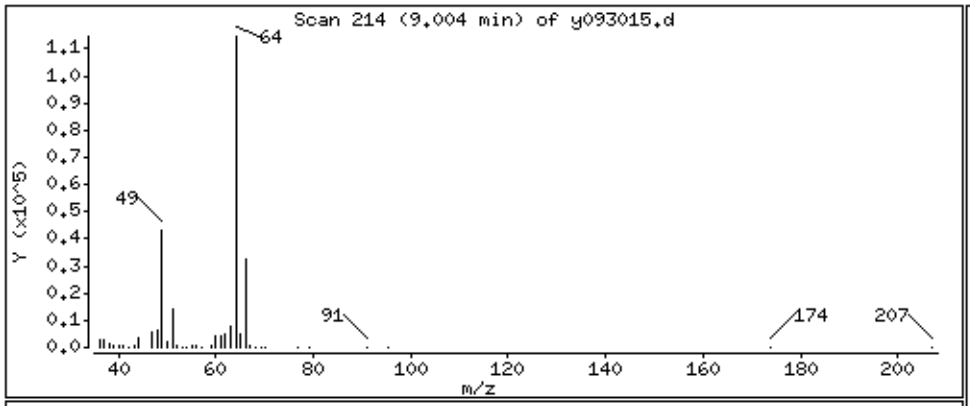
Operator: db

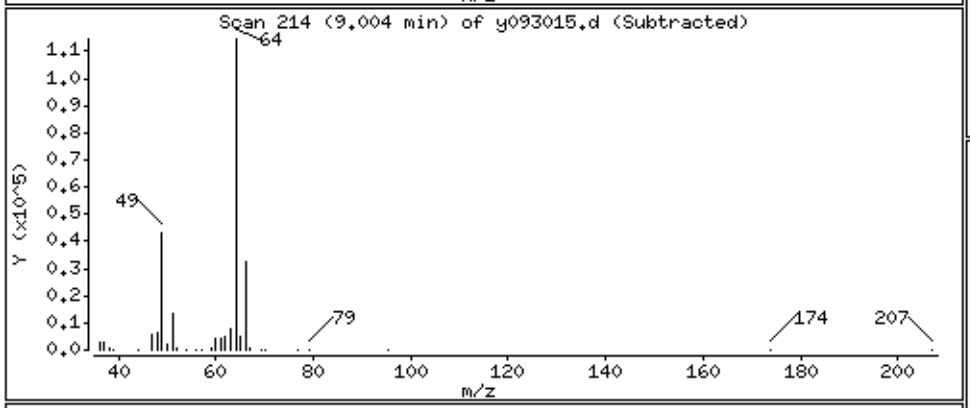
Column phase: RTx-624

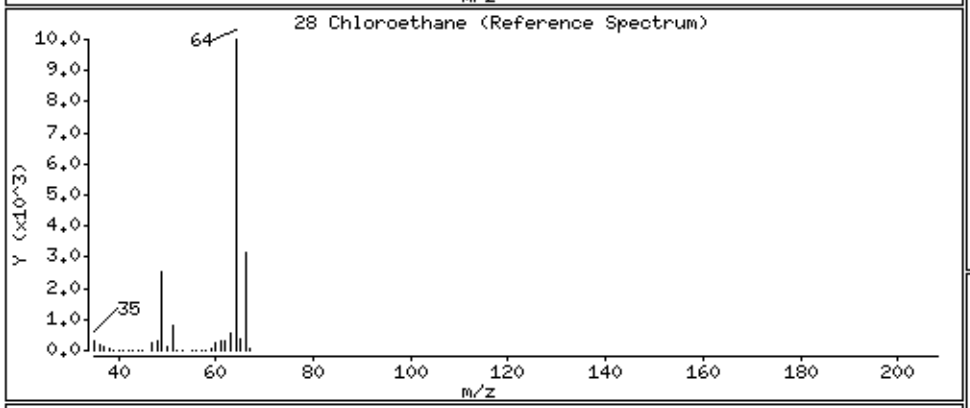
Column diameter: 0.53

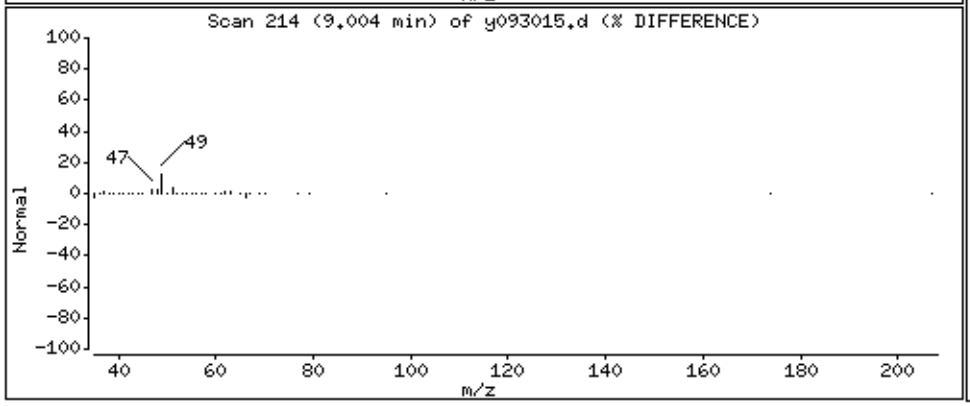
28 Chloroethane

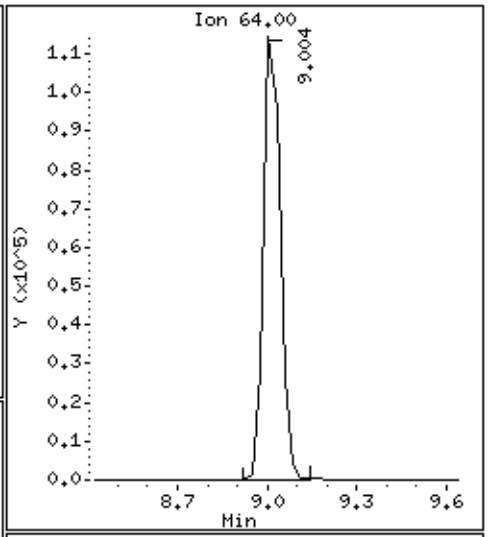
Concentration: 52.994 PPBV

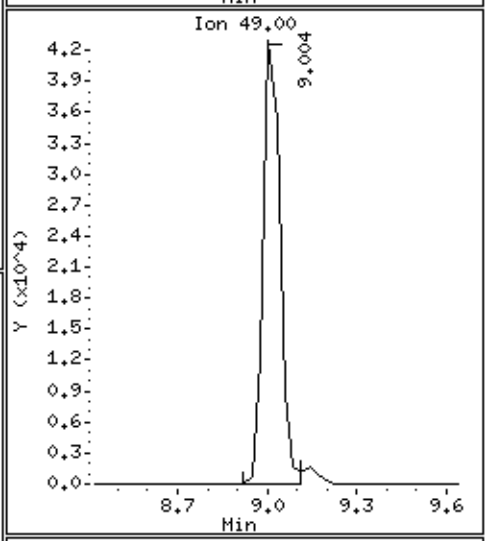


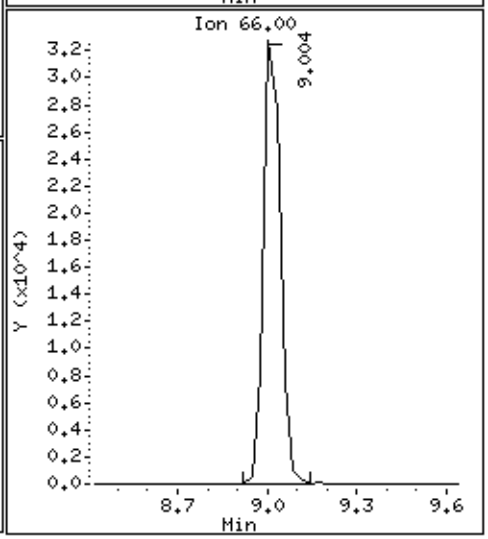












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

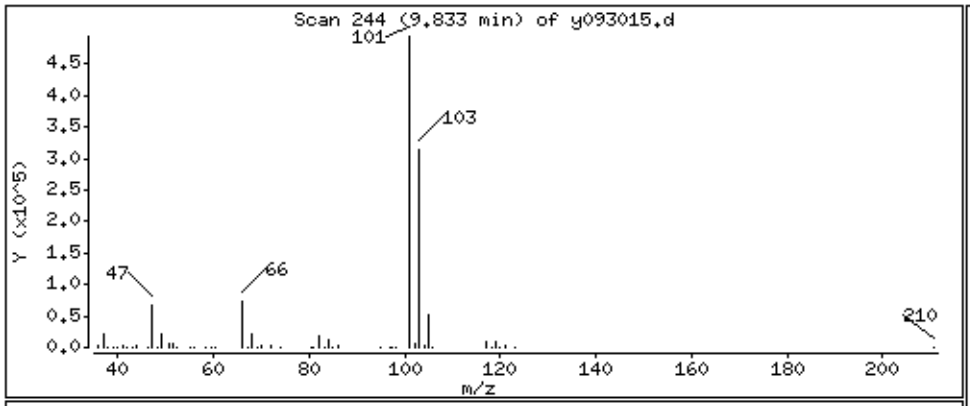
Operator: db

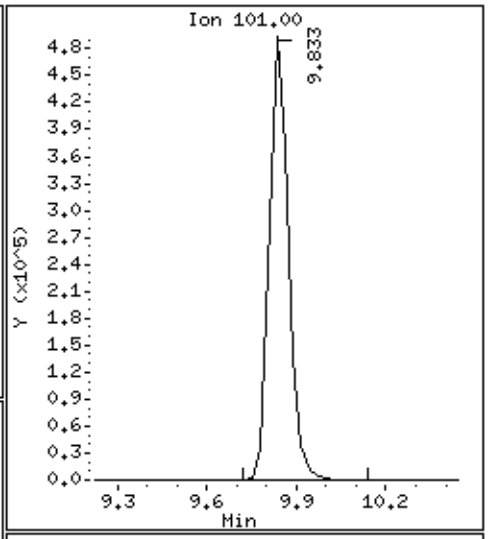
Column phase: RTx-624

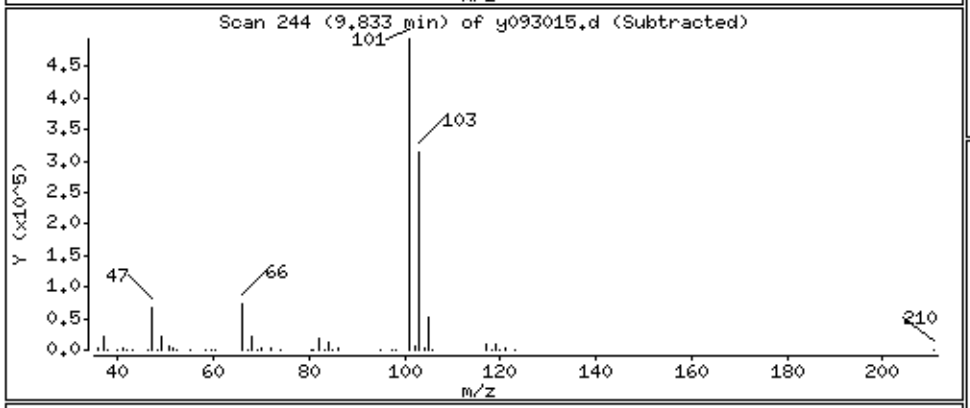
Column diameter: 0.53

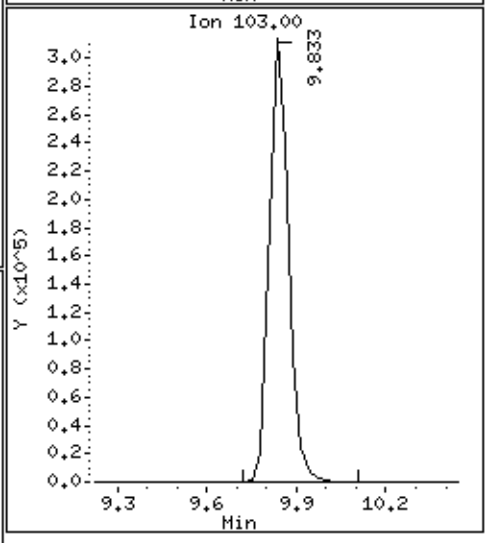
33 Trichlorofluoromethane/Fr11

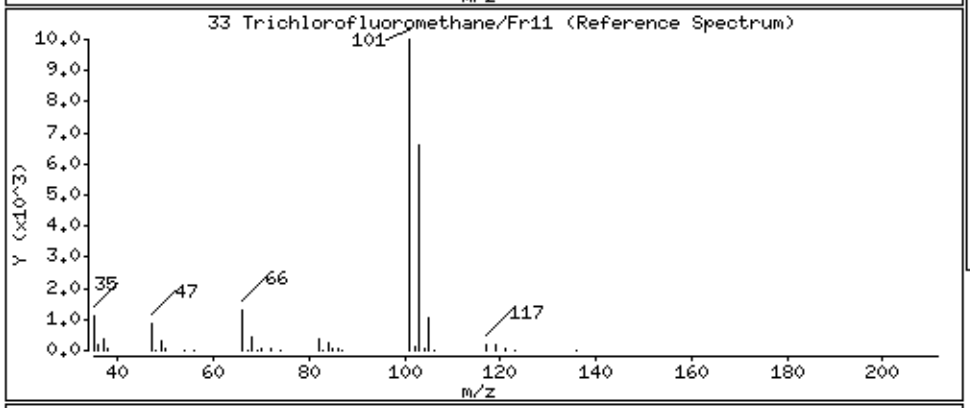
Concentration: 51.804 PPBV

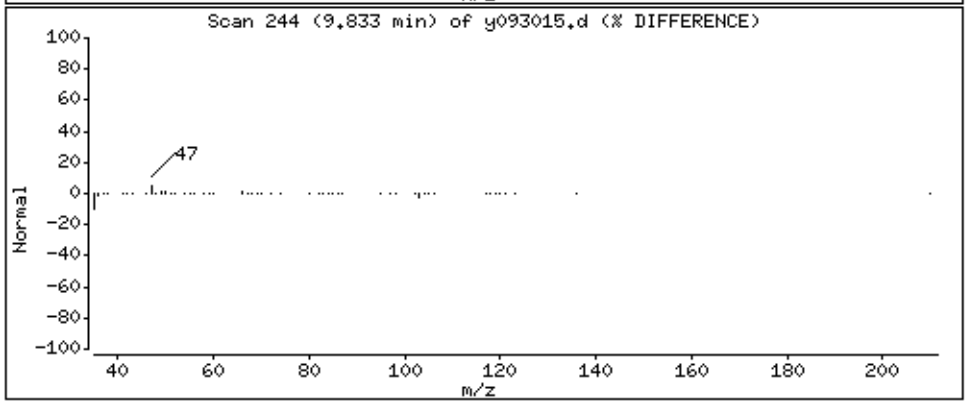












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

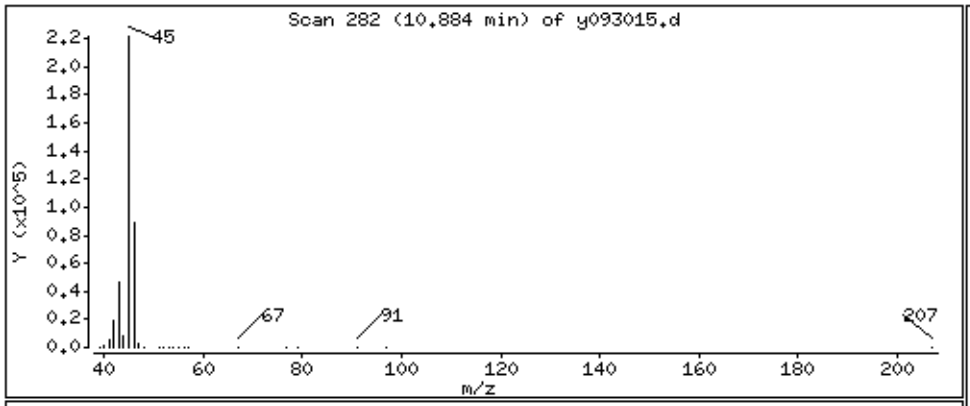
Operator: db

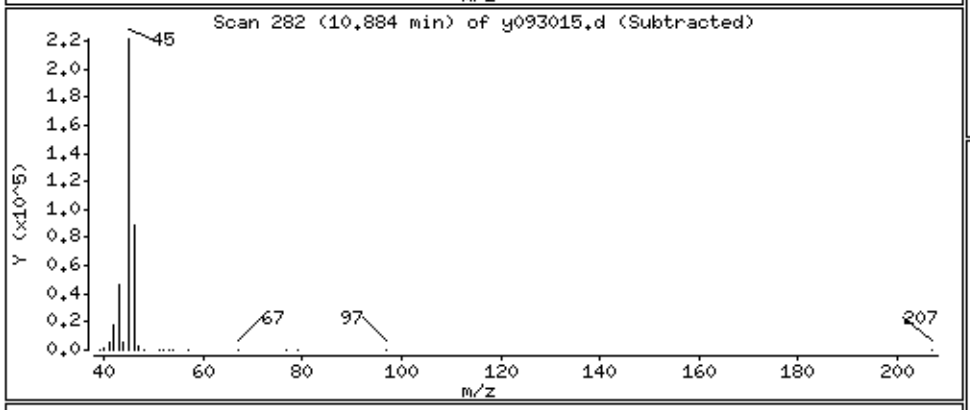
Column phase: RTx-624

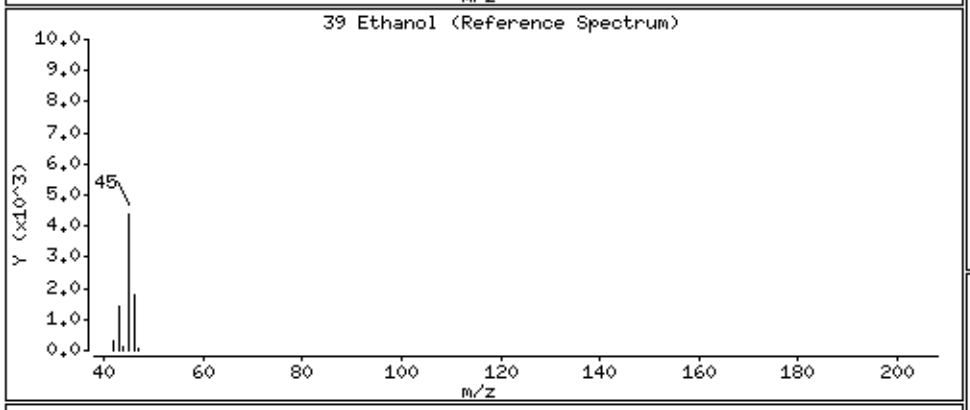
Column diameter: 0.53

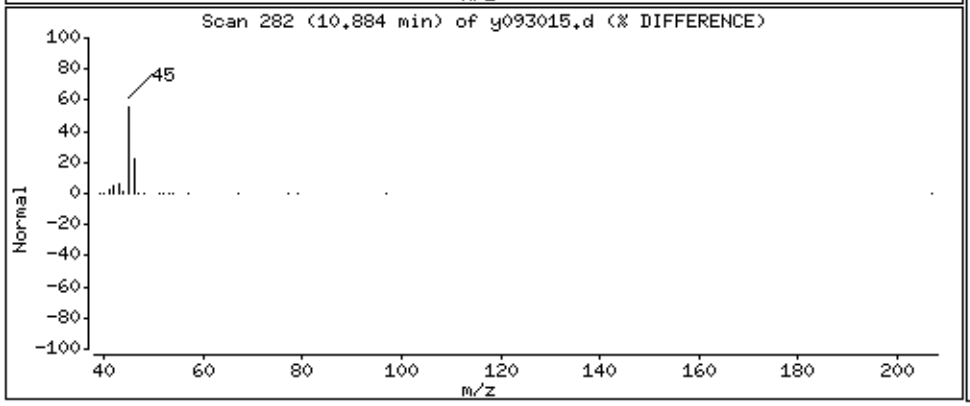
39 Ethanol

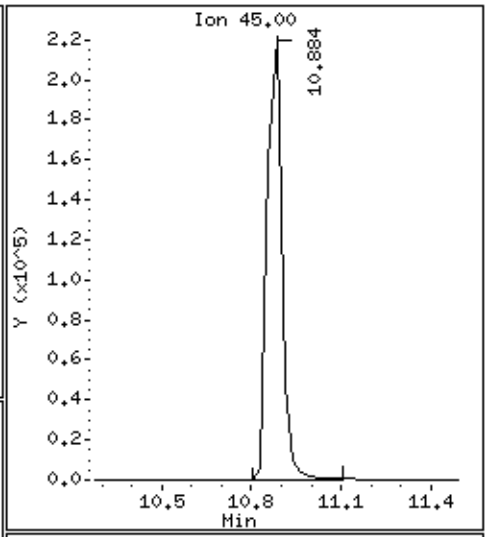
Concentration: 56.108 PPBV

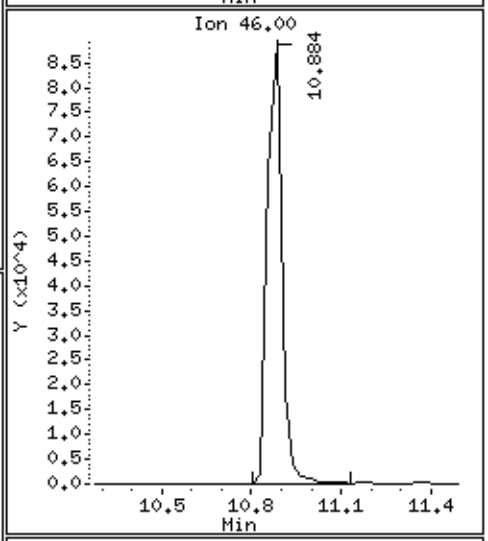


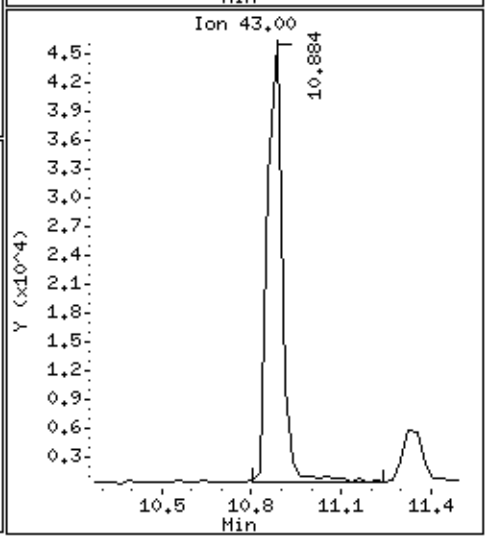












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

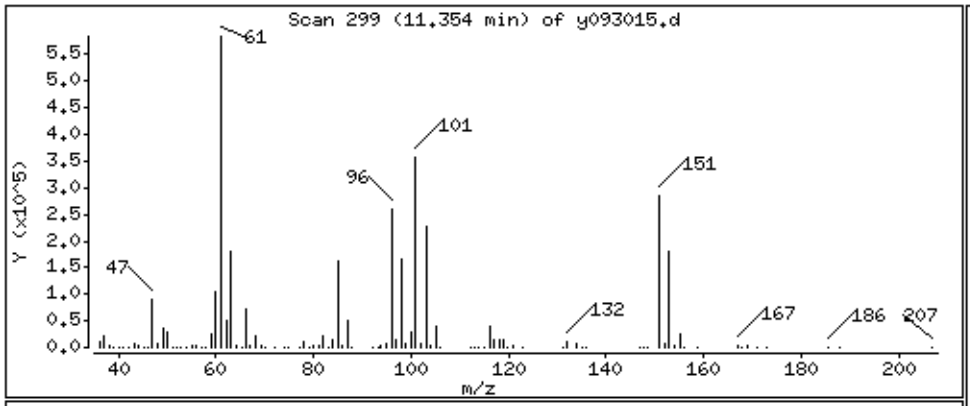
Operator: db

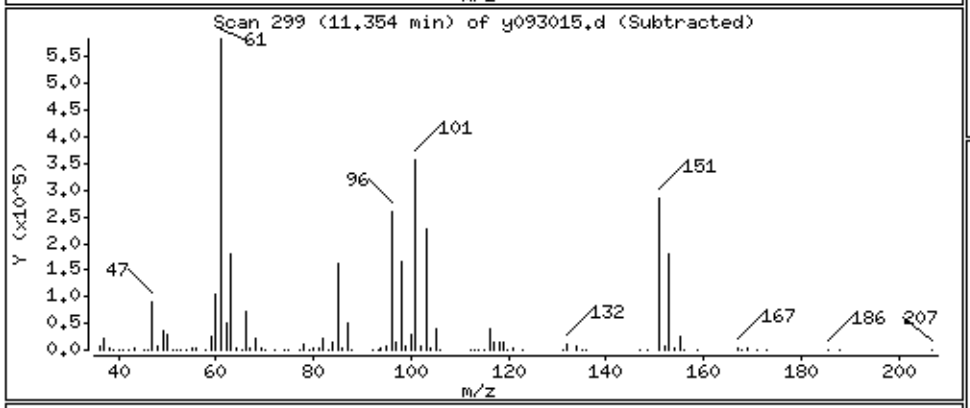
Column phase: RTx-624

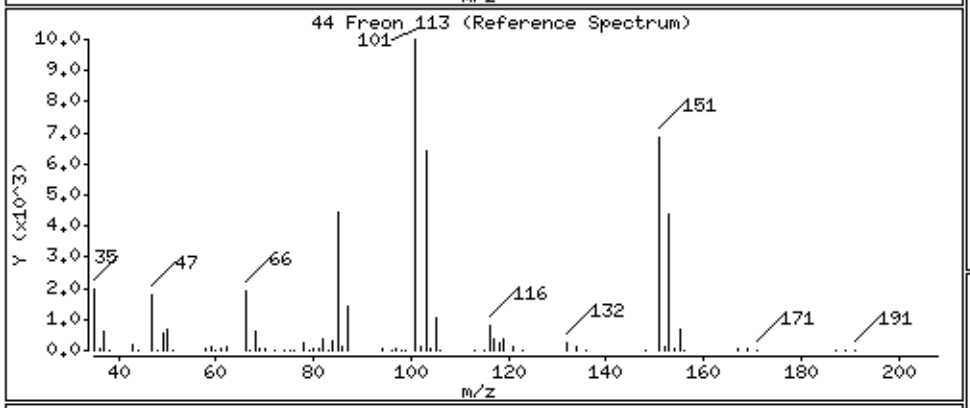
Column diameter: 0.53

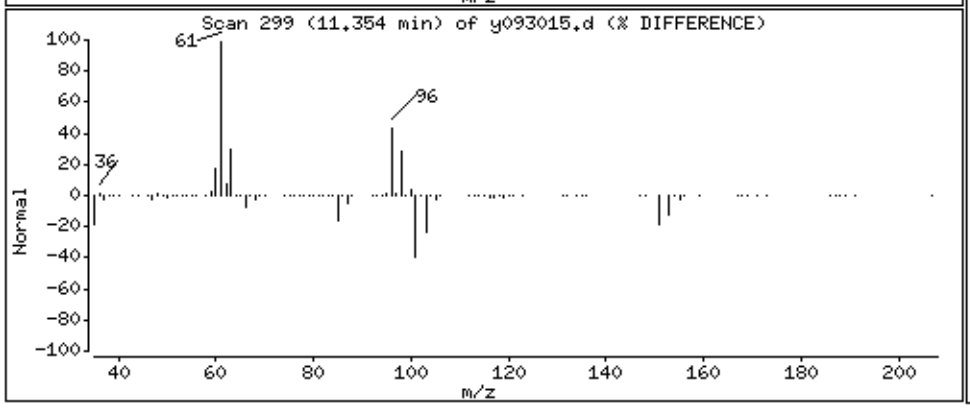
44 Freon 113

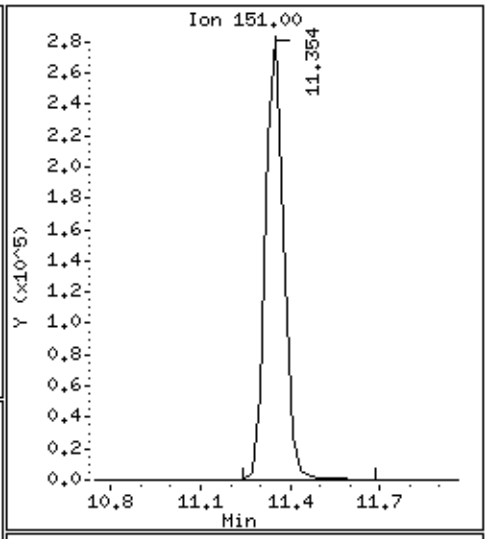
Concentration: 51.383 PPBV

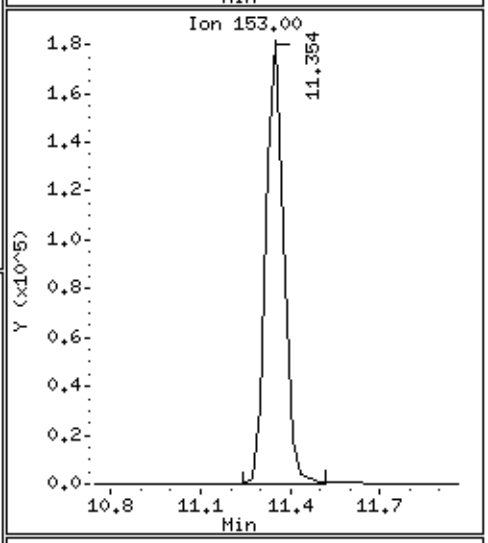


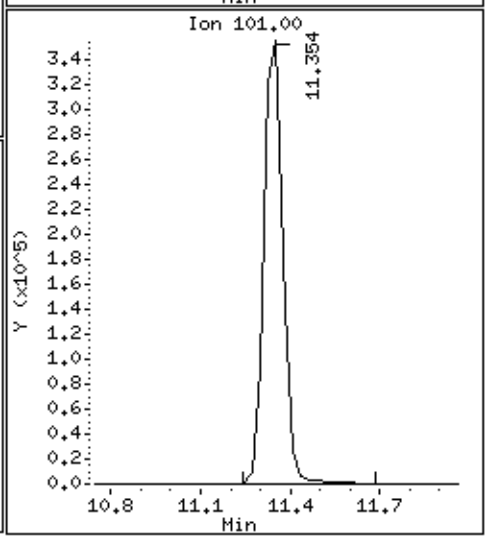












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

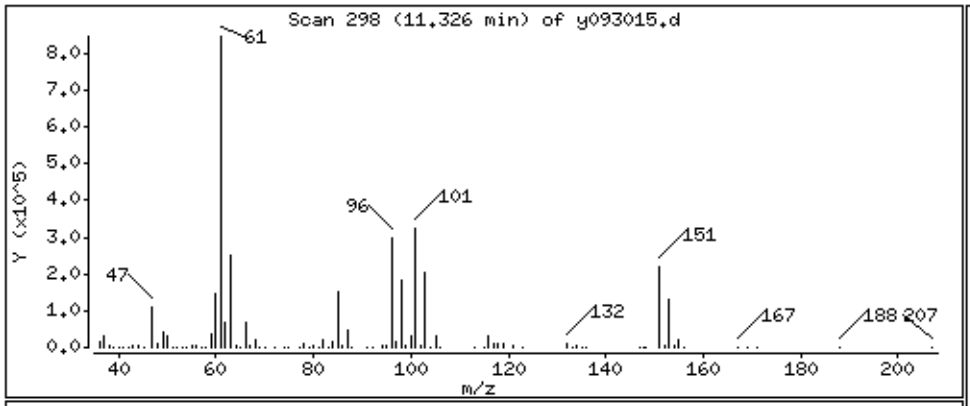
Operator: db

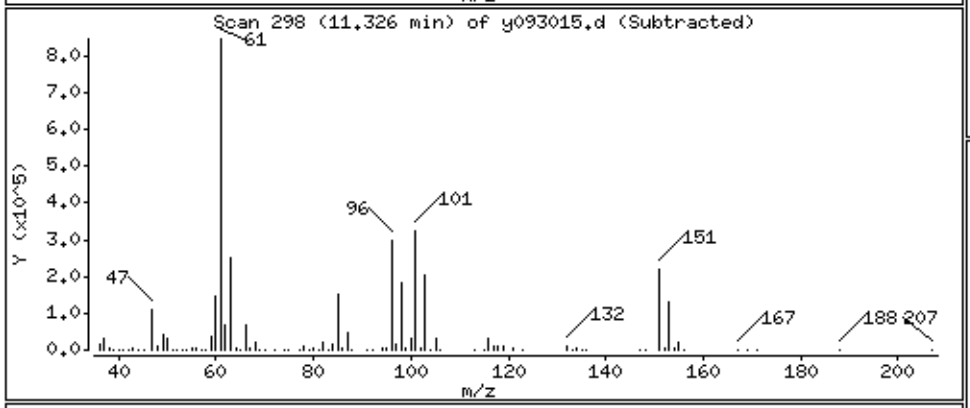
Column phase: RTx-624

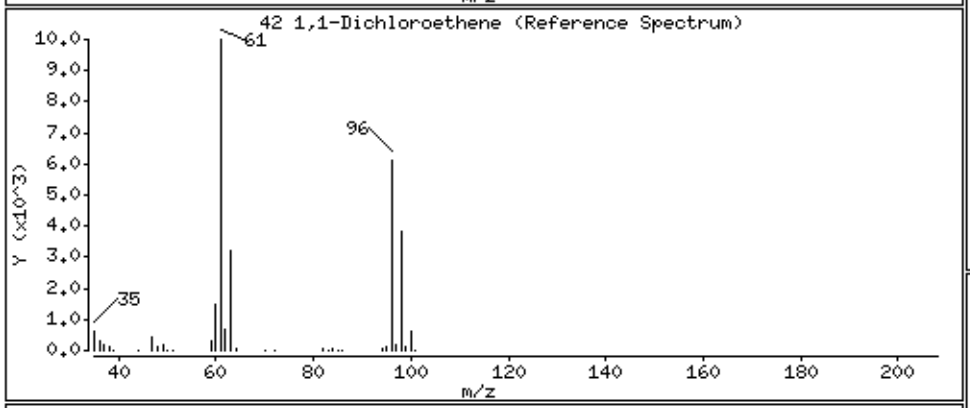
Column diameter: 0.53

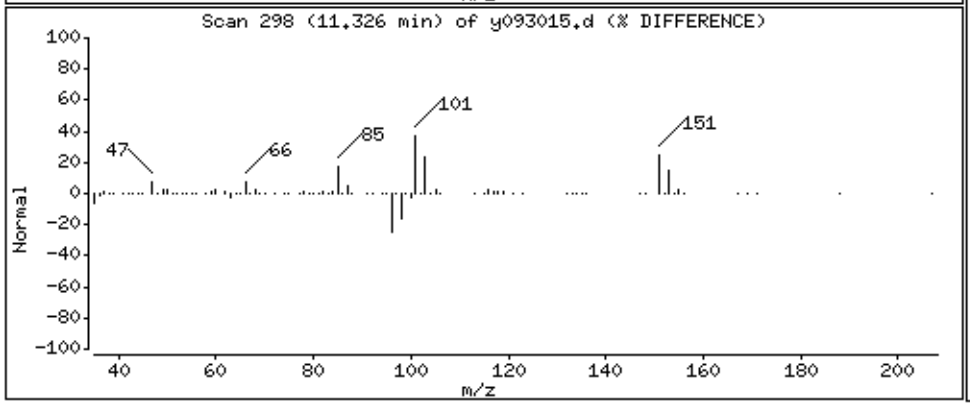
42 1,1-Dichloroethene

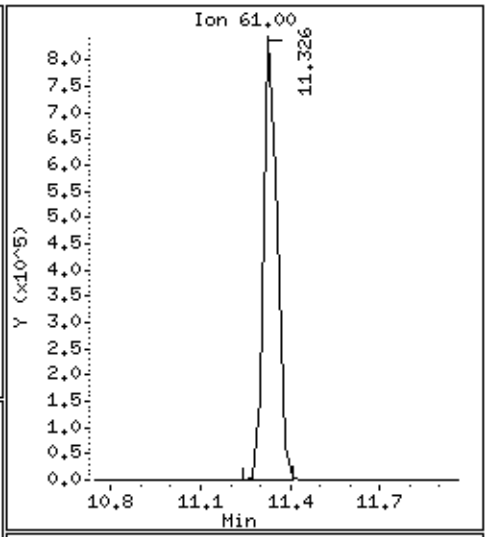
Concentration: 54.080 PPBV

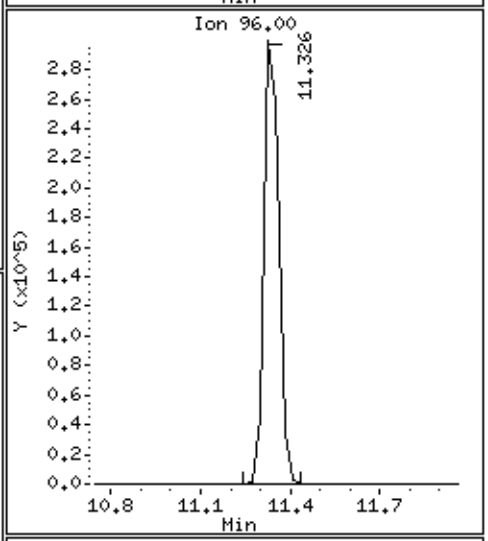


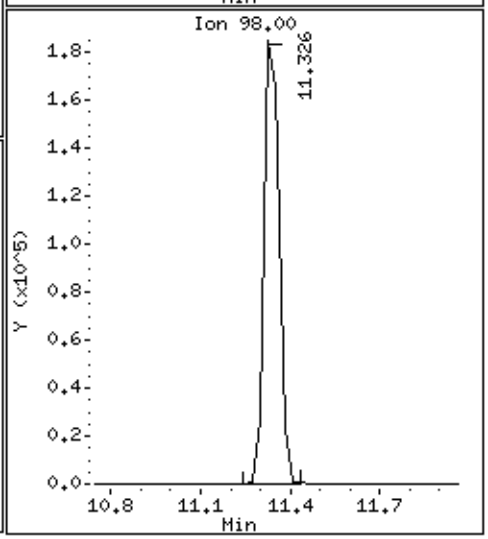












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

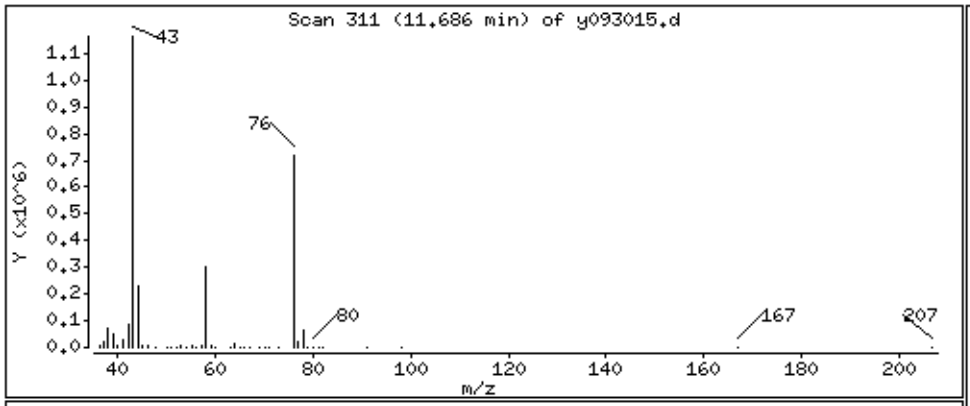
Operator: db

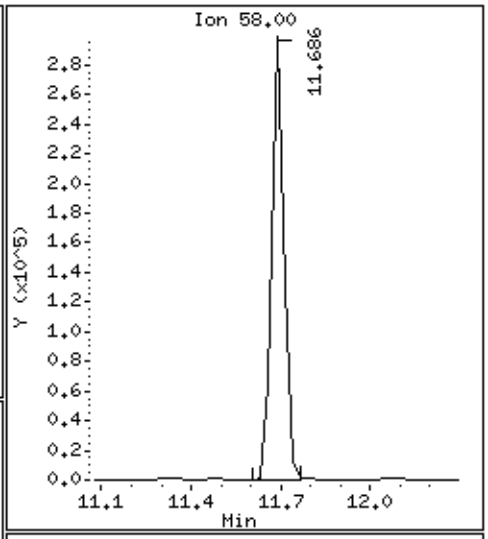
Column phase: RTx-624

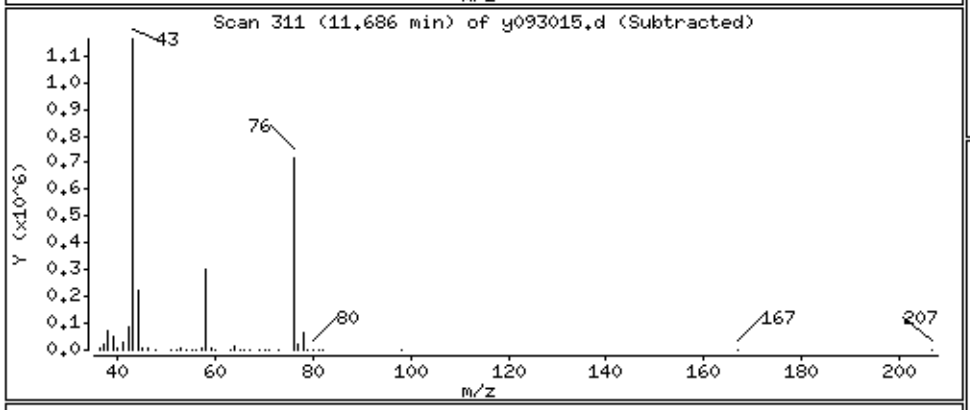
Column diameter: 0.53

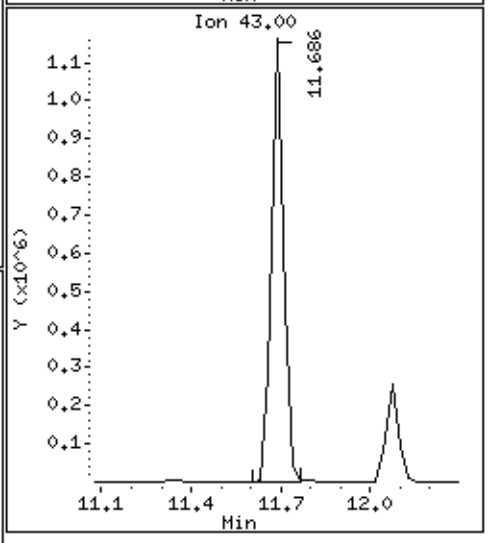
47 Acetone

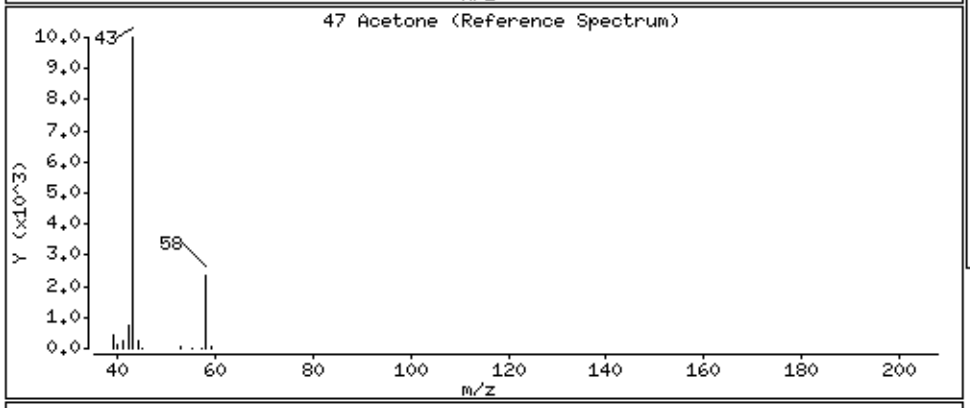
Concentration: 49.391 PPBV

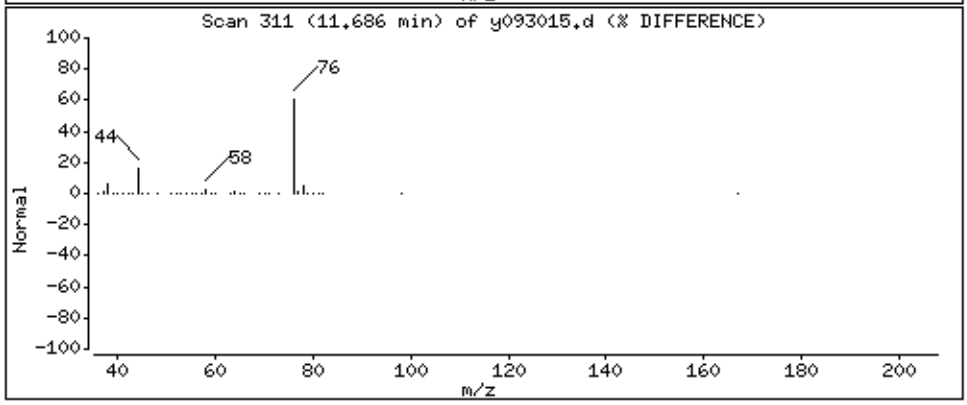












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

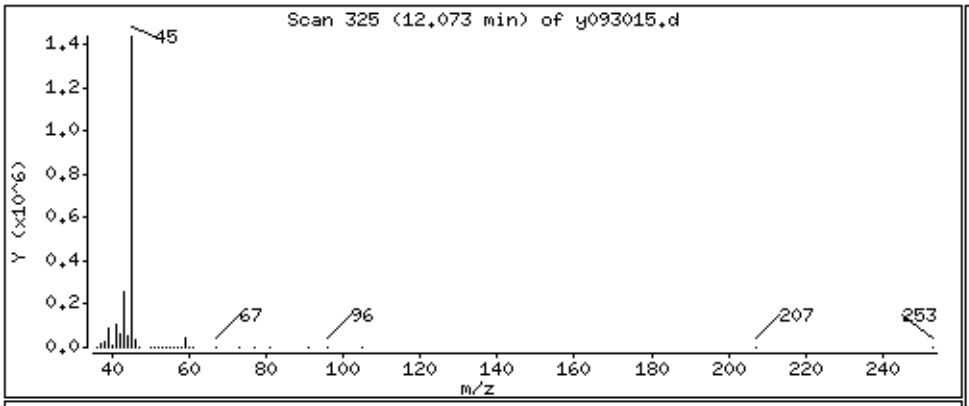
Operator: db

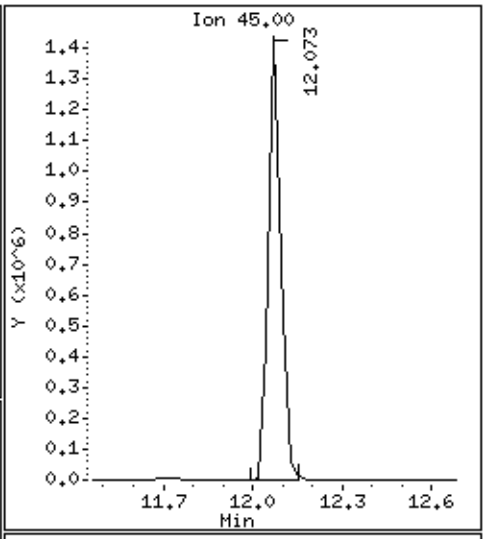
Column phase: RTx-624

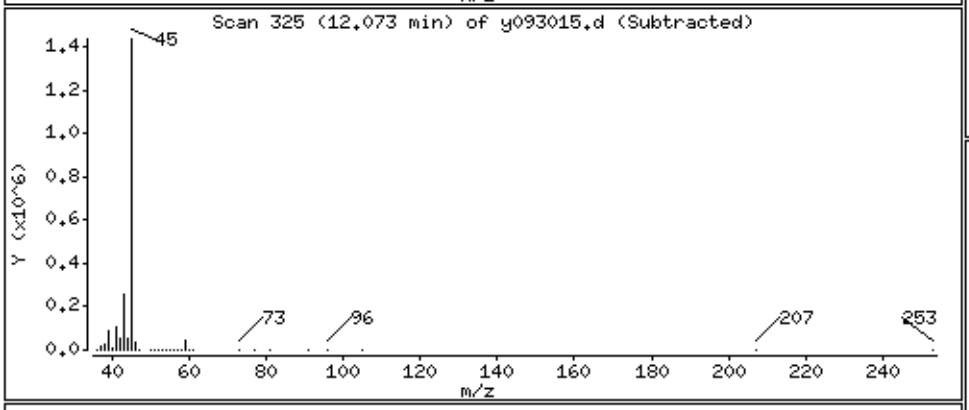
Column diameter: 0.53

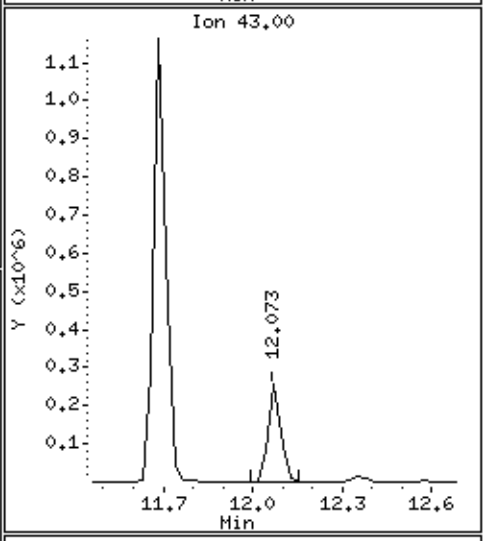
50 2-Propanol

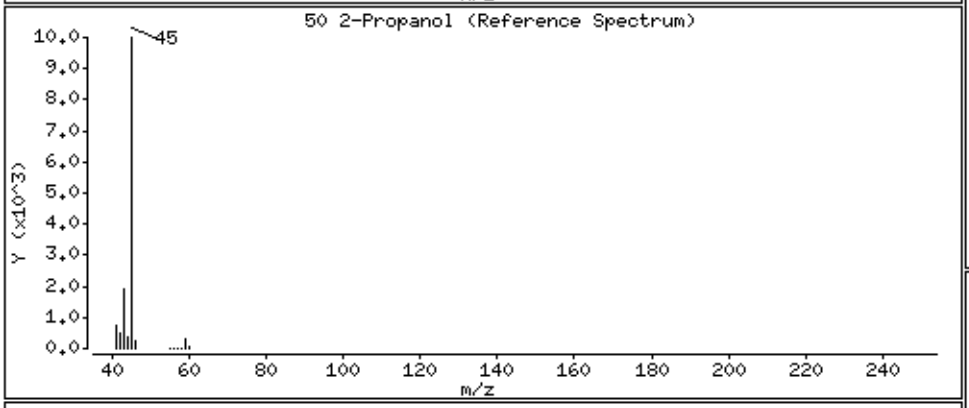
Concentration: 46.555 PPBV

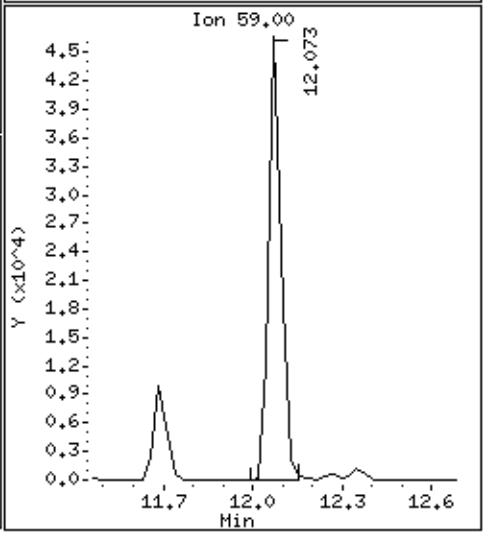


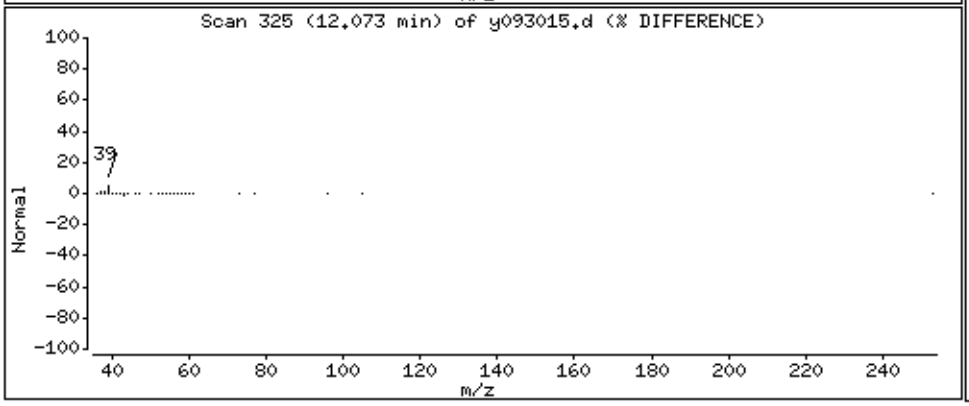












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

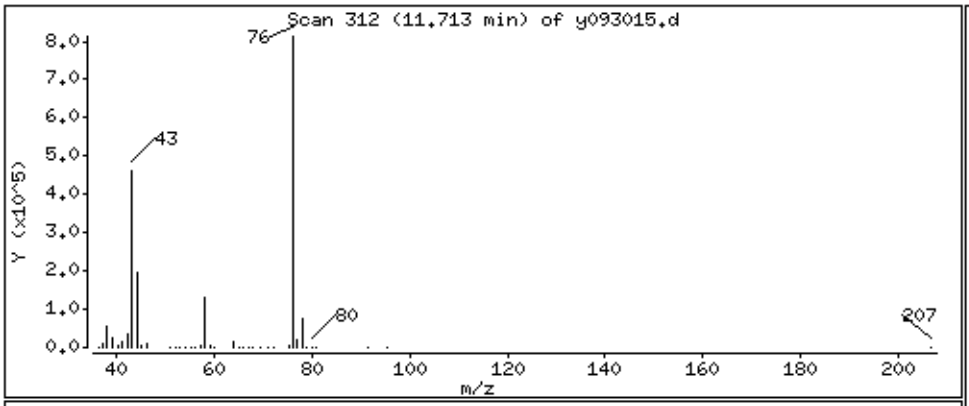
Operator: db

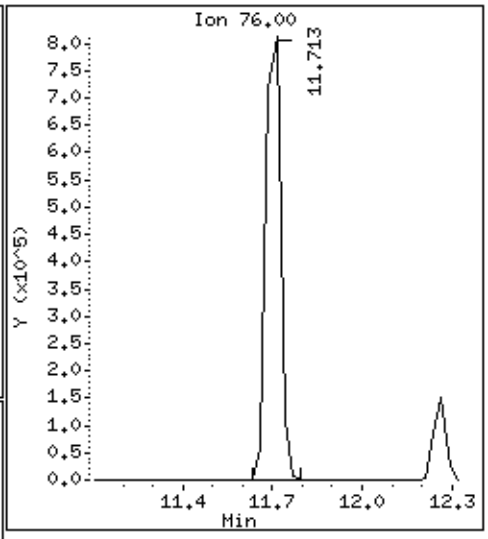
Column phase: RTx-624

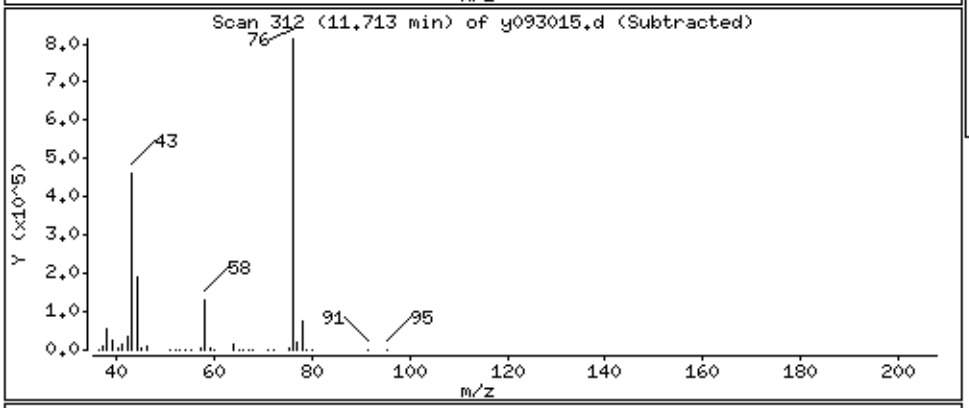
Column diameter: 0.53

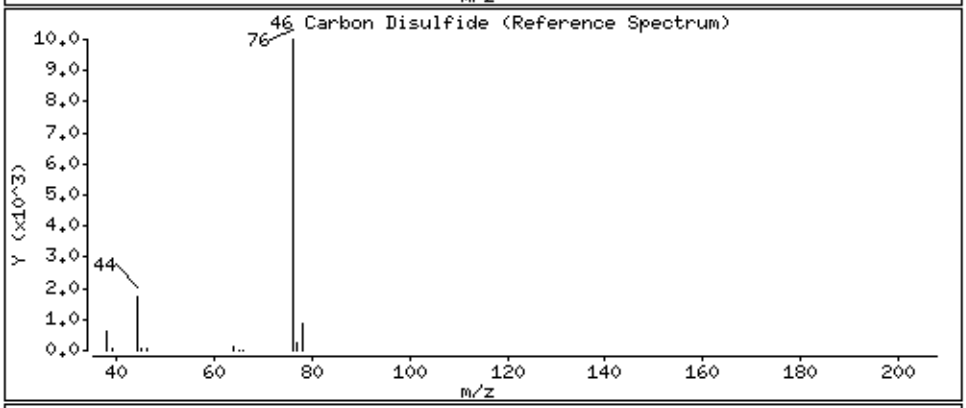
46 Carbon Disulfide

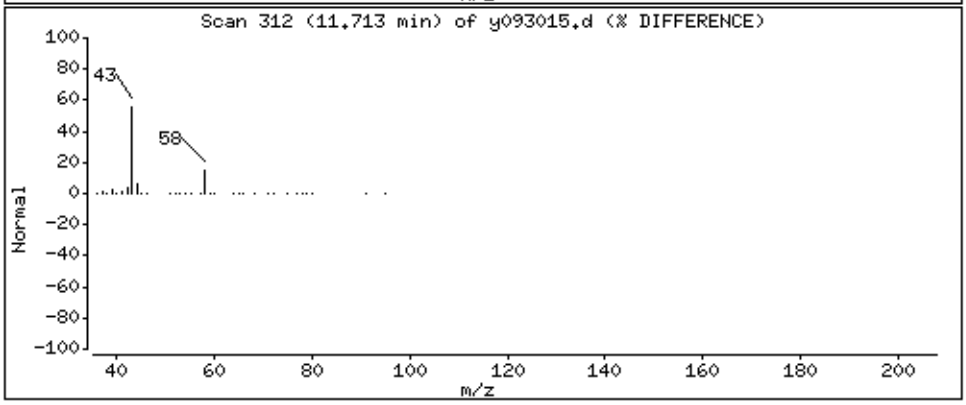
Concentration: 53.730 PPBV











Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

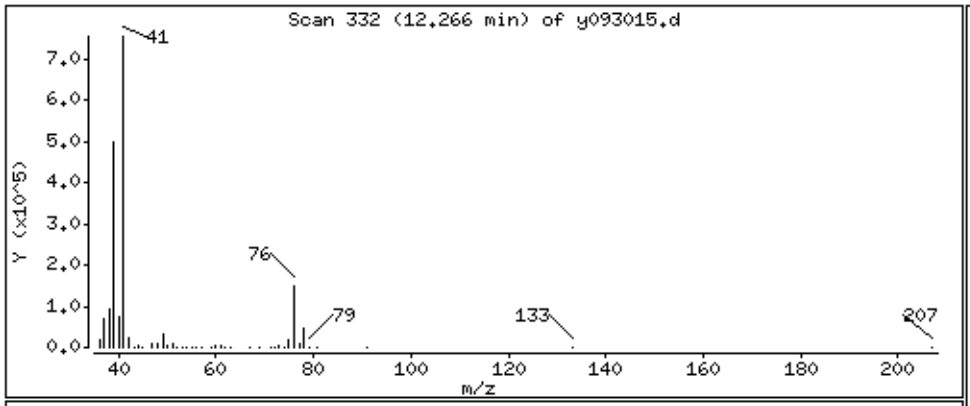
Operator: db

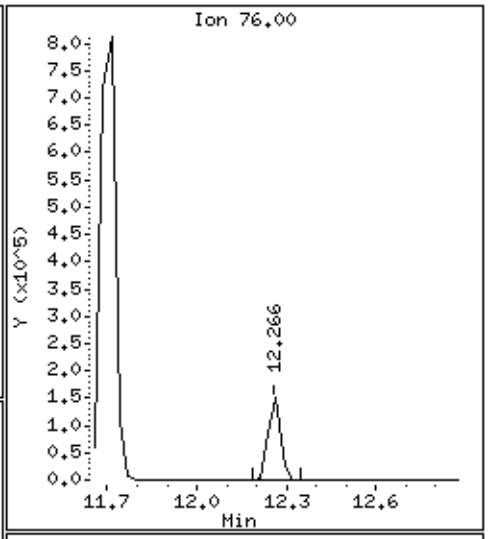
Column phase: RTx-624

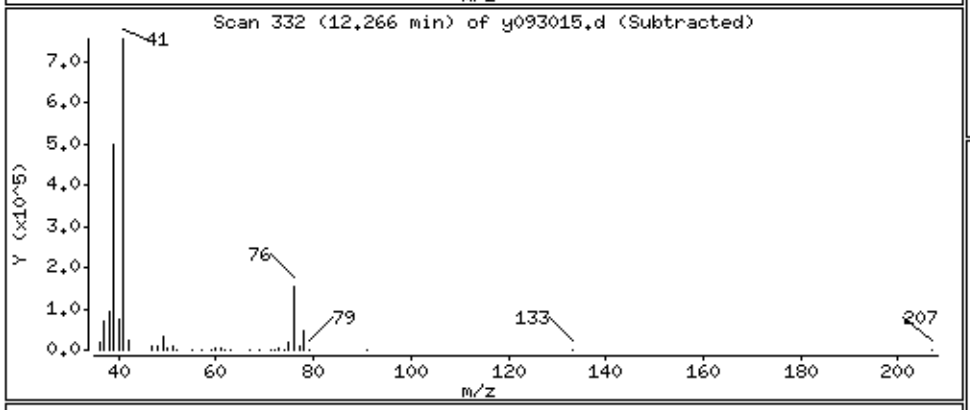
Column diameter: 0.53

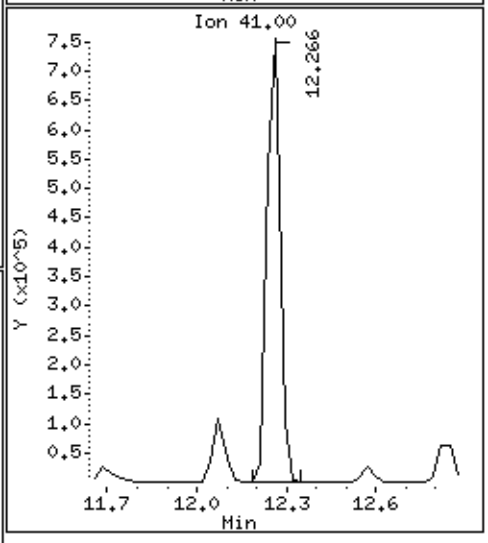
53 3-Chloropropene

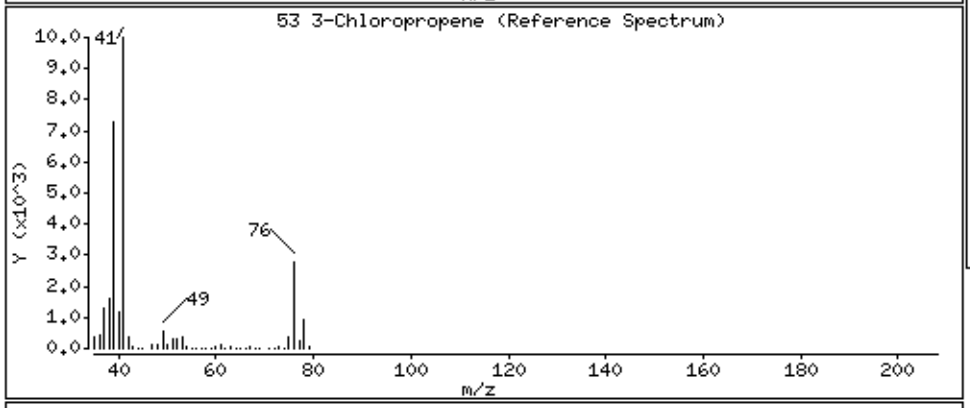
Concentration: 56.423 PPBV

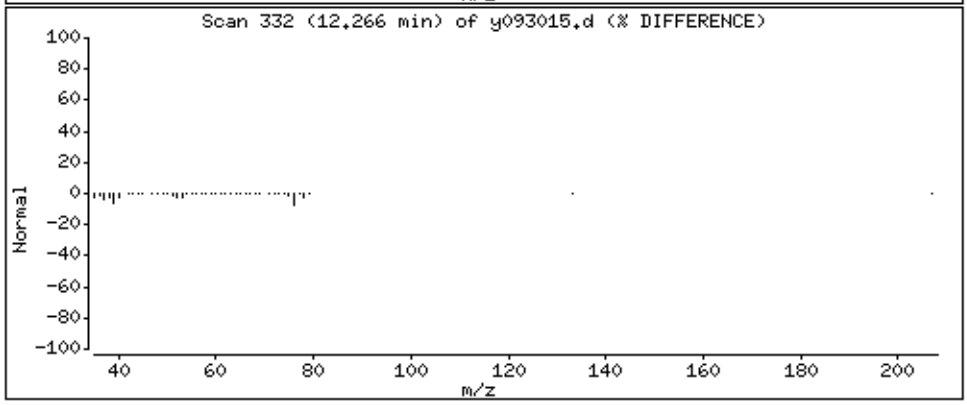












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

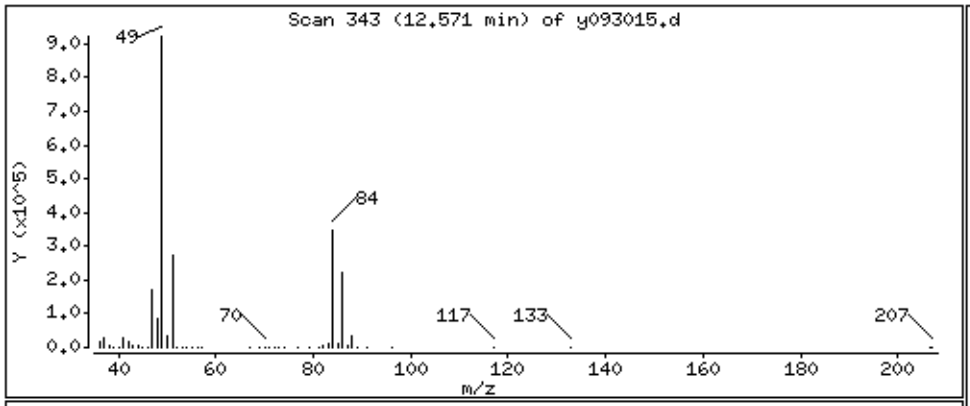
Operator: db

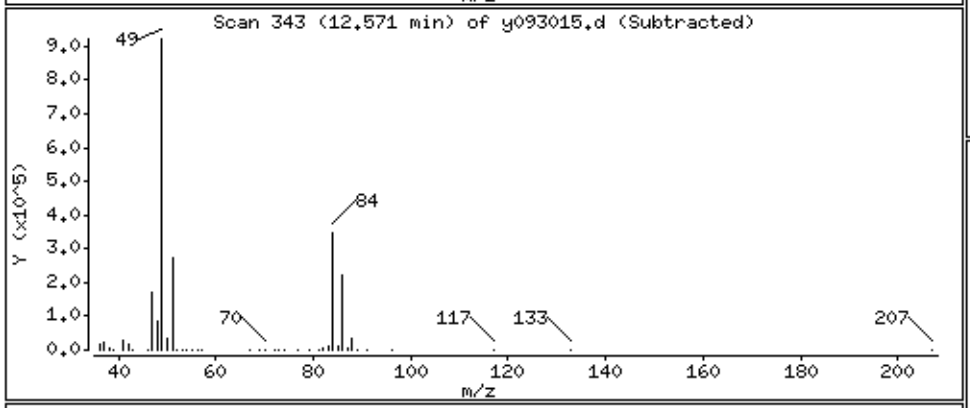
Column phase: RTx-624

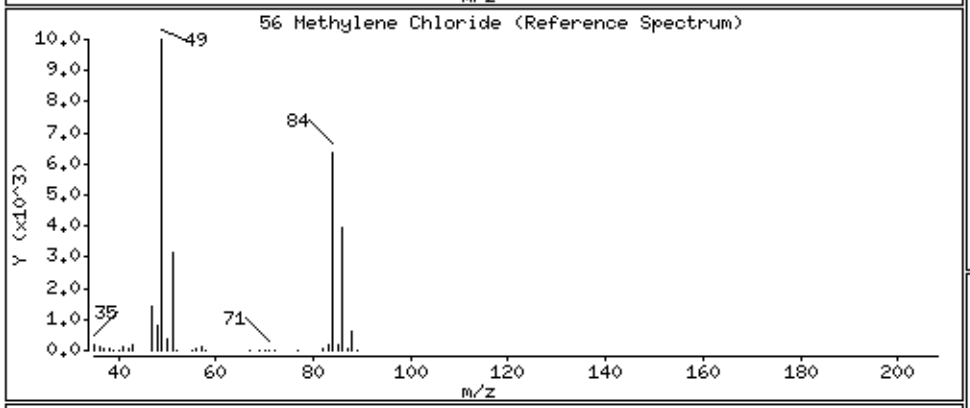
Column diameter: 0.53

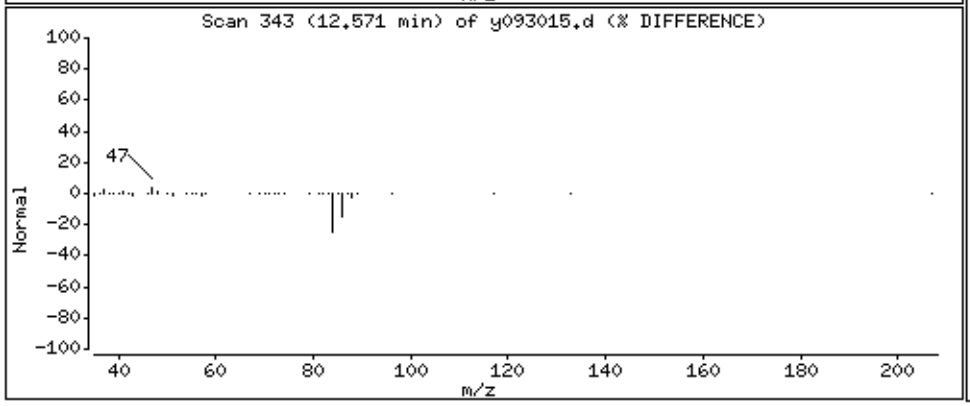
56 Methylene Chloride

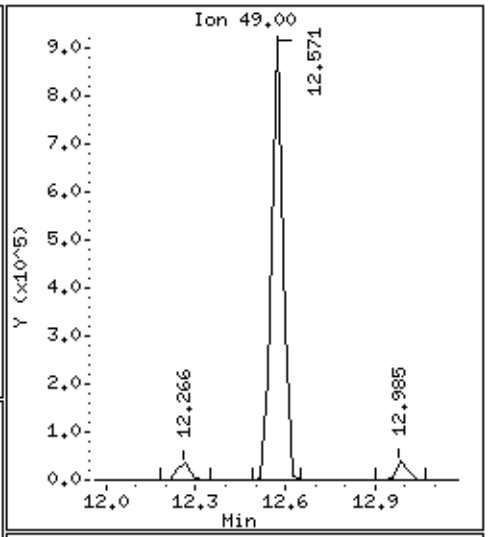
Concentration: 55.987 PPBV

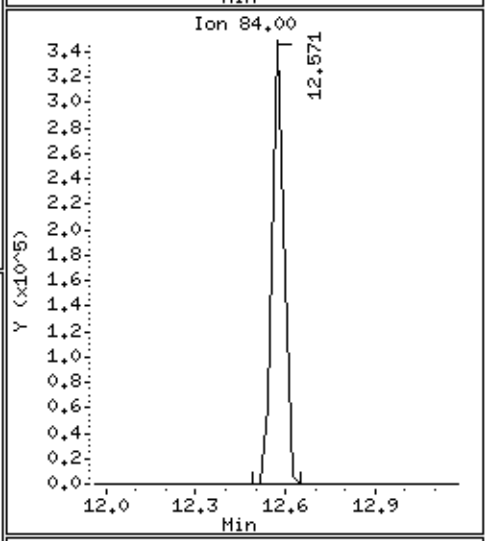


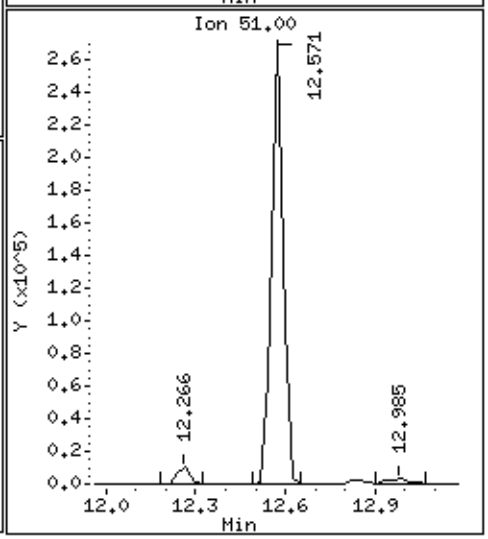












56 Methylene Chloride

Concentration: 55.987 PPBV

Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

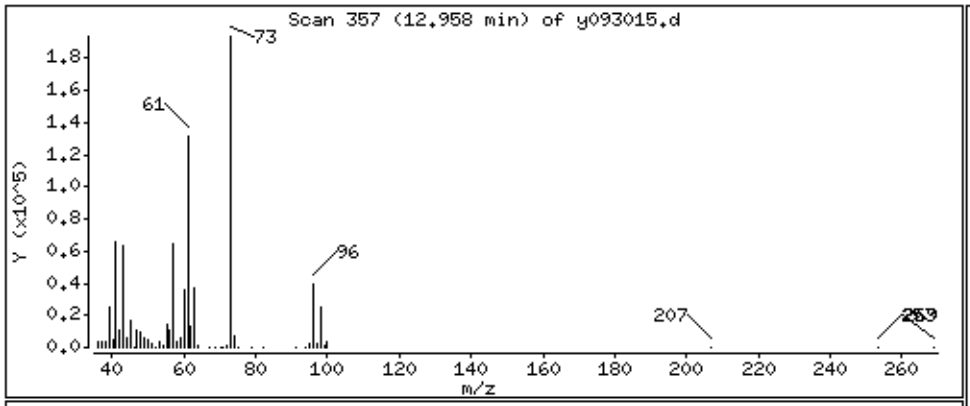
Operator: db

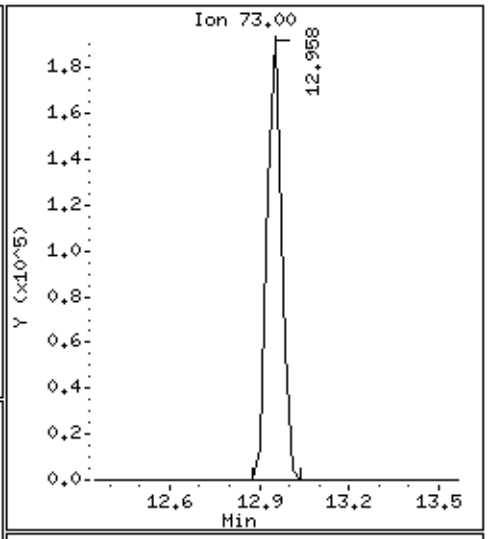
Column phase: RTx-624

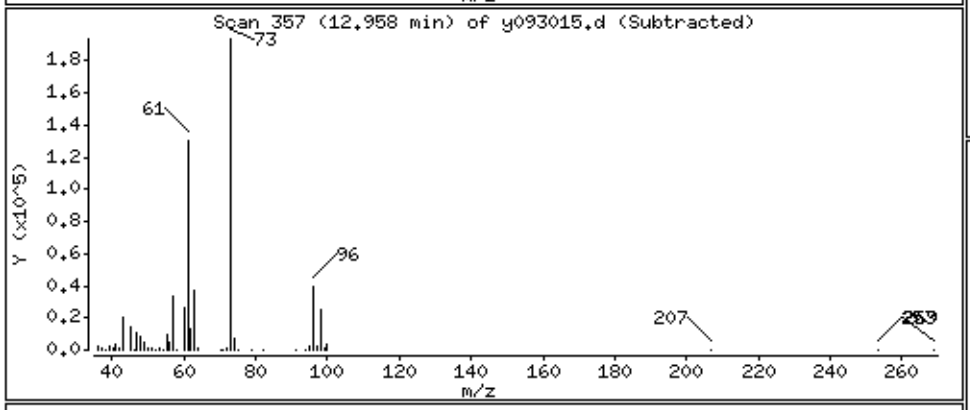
Column diameter: 0.53

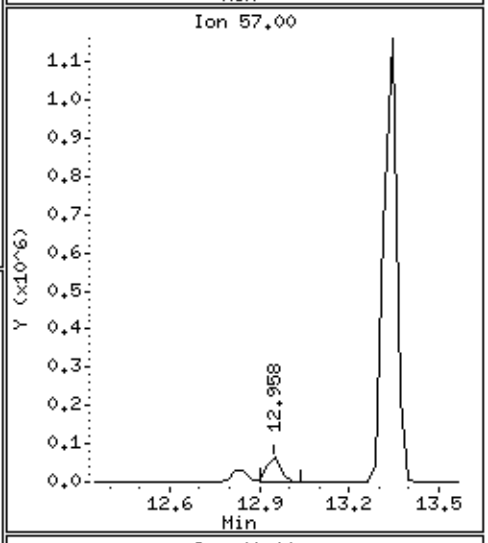
60 MTBE

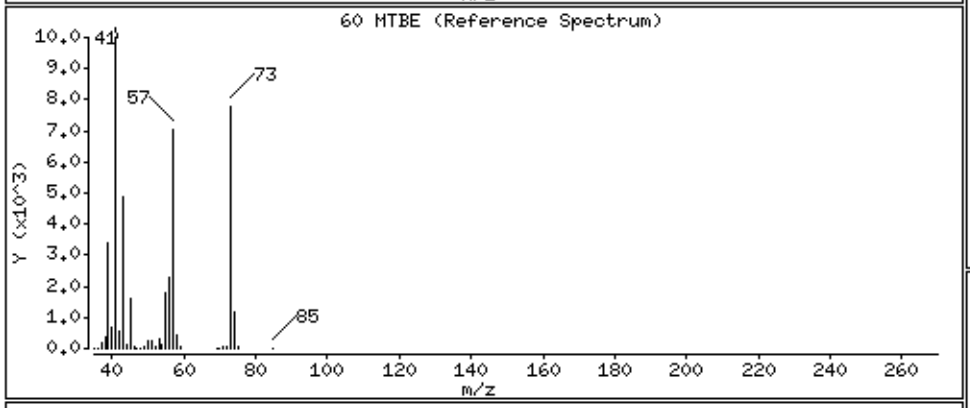
Concentration: 51.122 PPBV

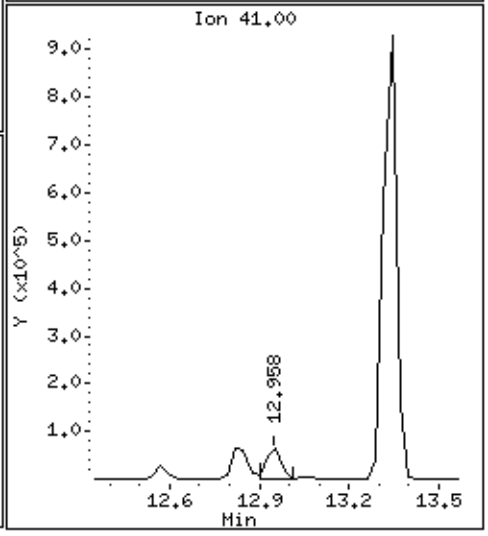


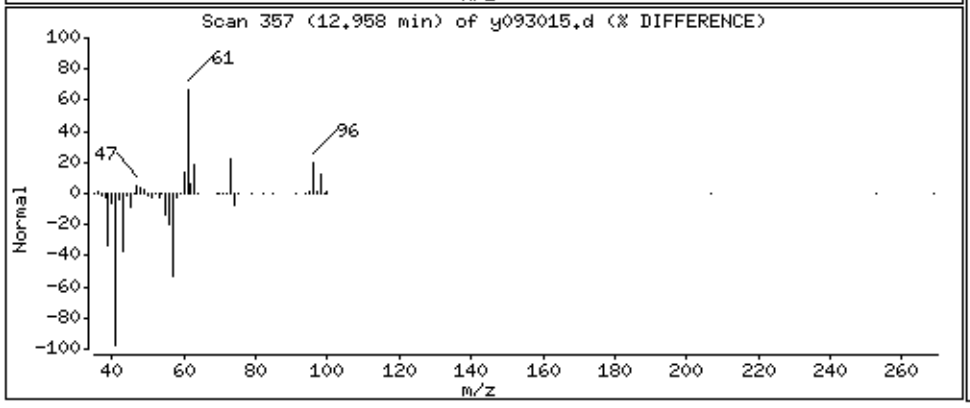












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

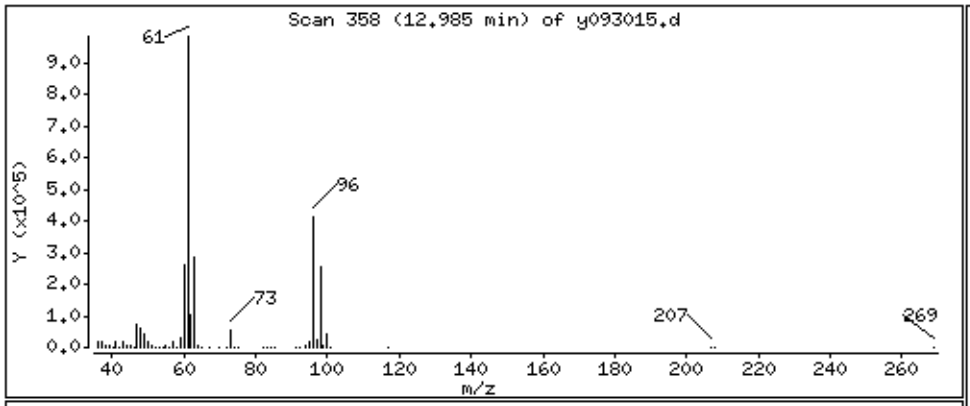
Operator: db

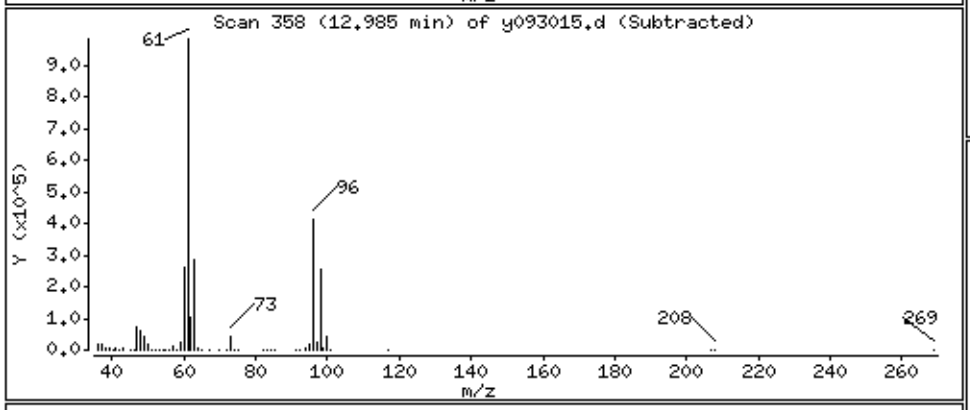
Column phase: RTx-624

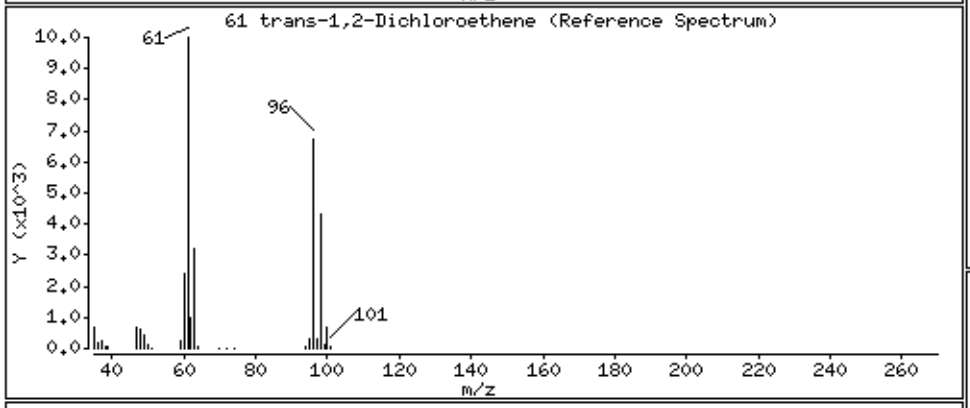
Column diameter: 0.53

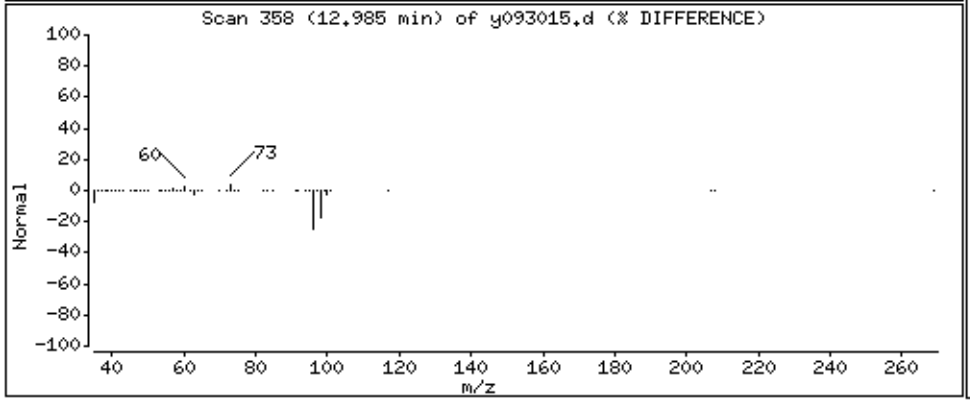
61 trans-1,2-Dichloroethene

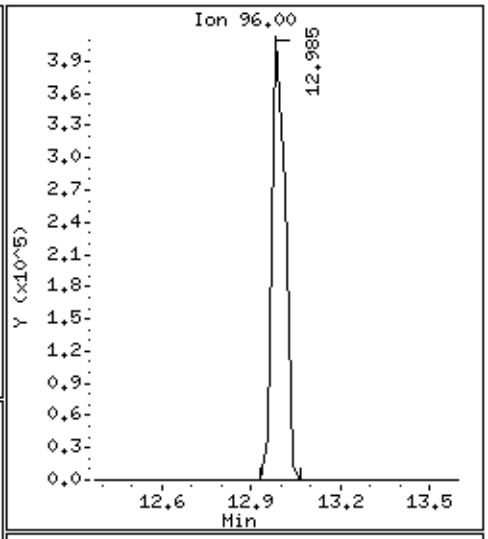
Concentration: 51.598 PPBV

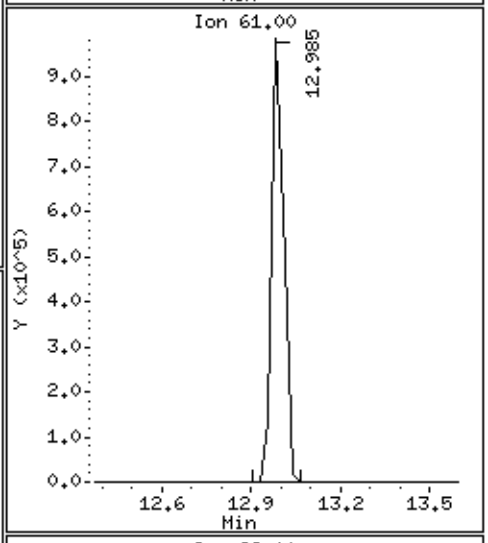


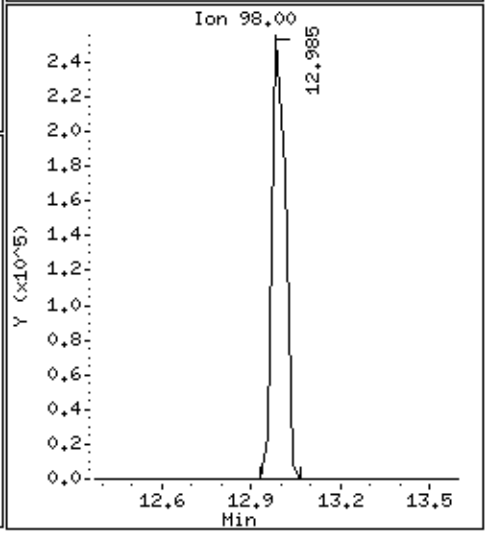












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

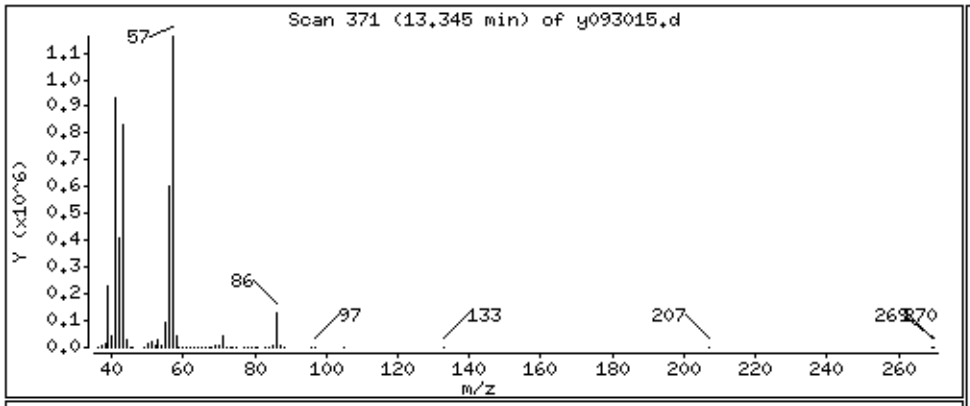
Operator: db

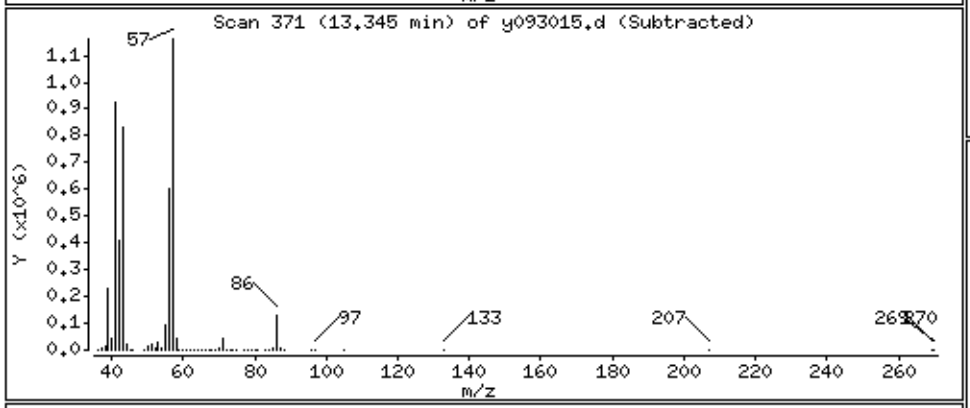
Column phase: RTx-624

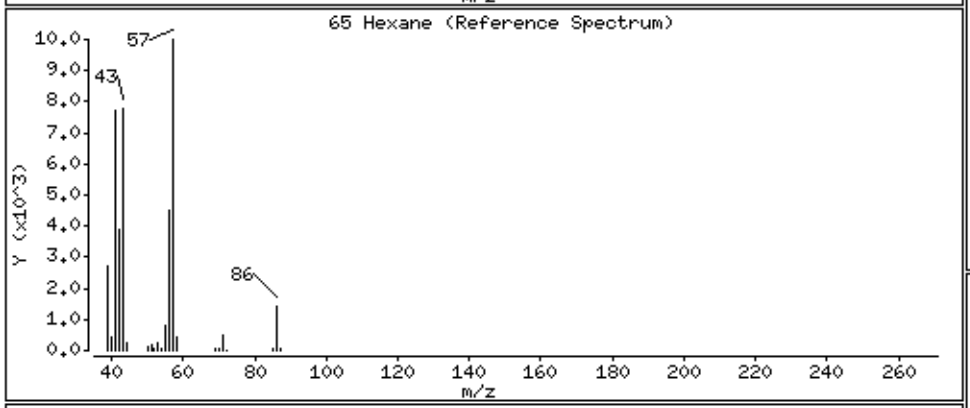
Column diameter: 0.53

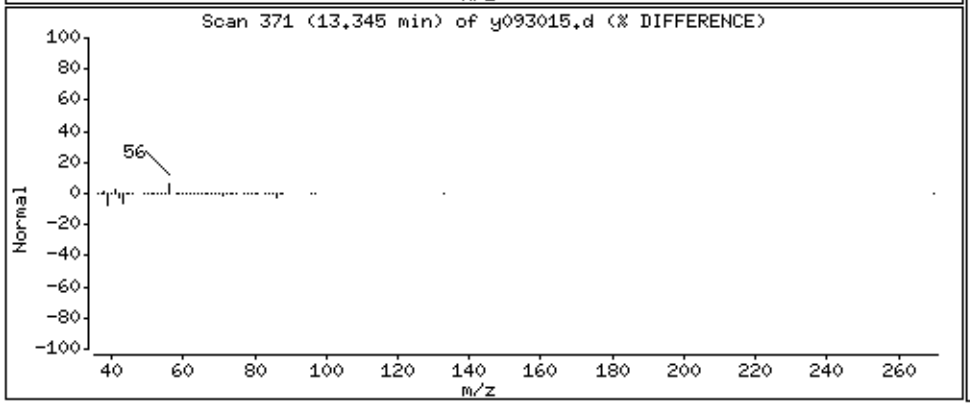
65 Hexane

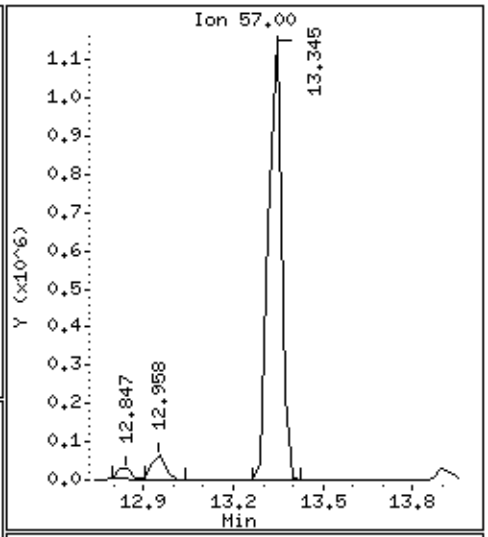
Concentration: 51.572 PPBV

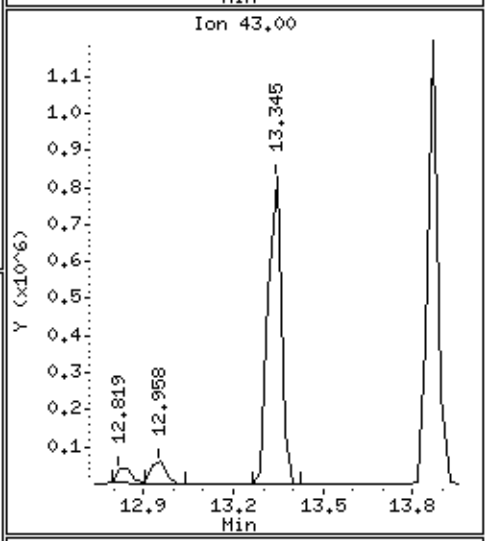


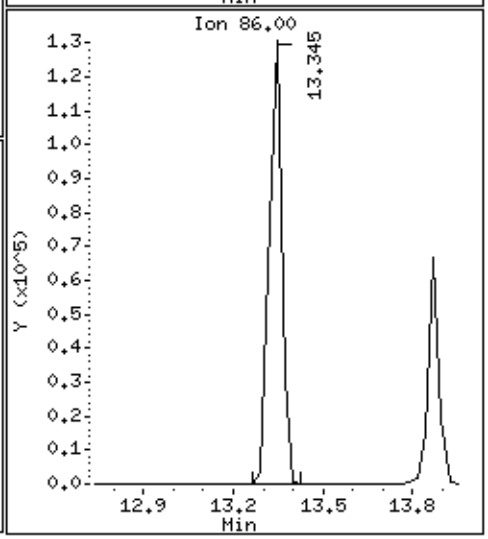












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

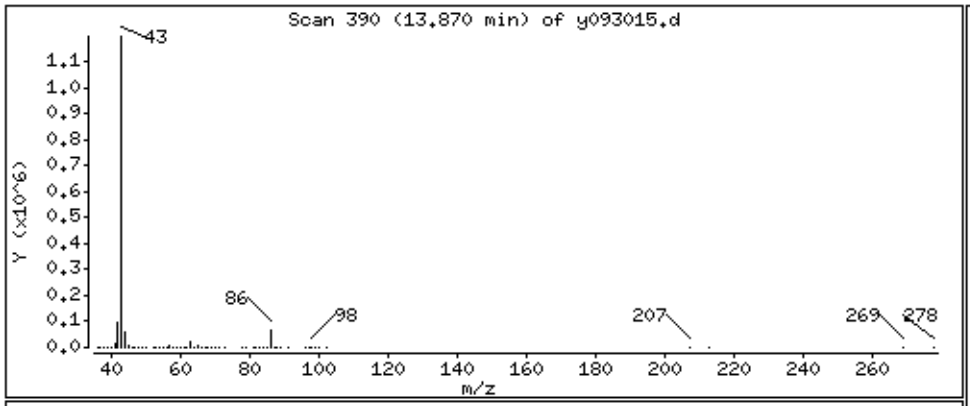
Sample Info: 50mL #1612-164

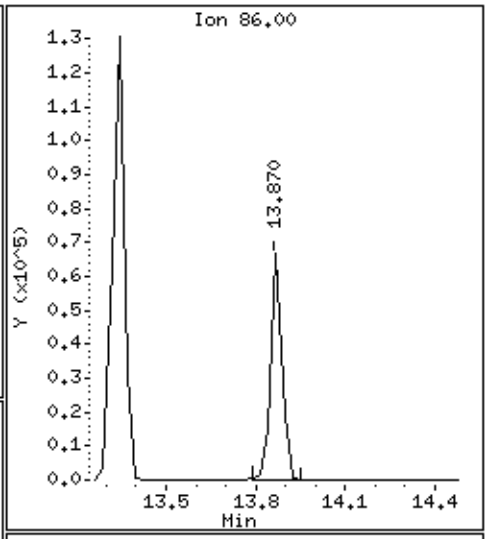
Operator: db

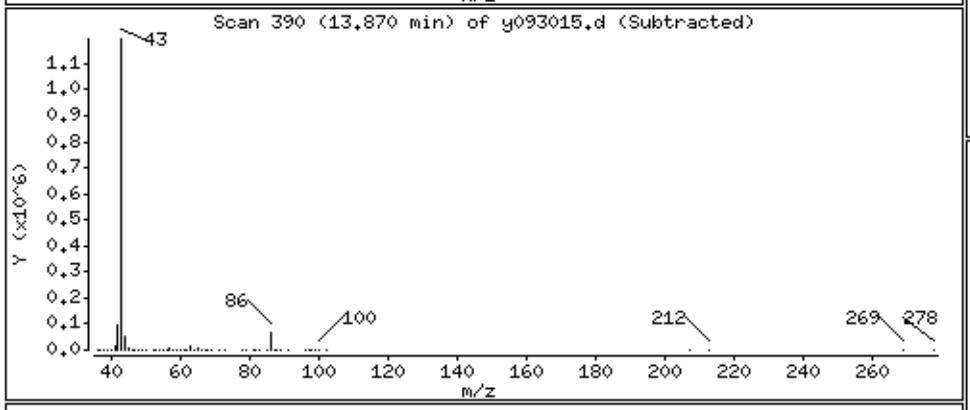
Column phase: RTx-624

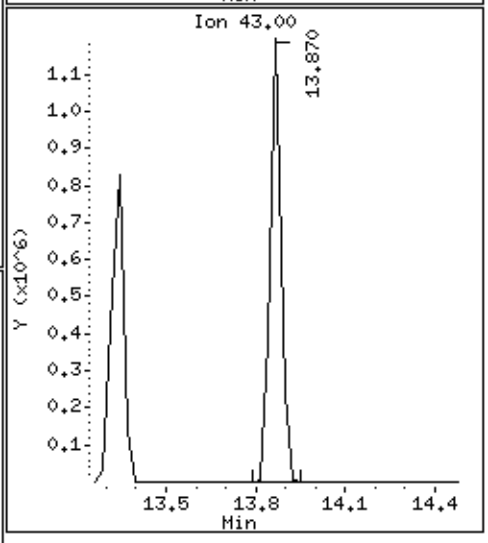
Column diameter: 0.53

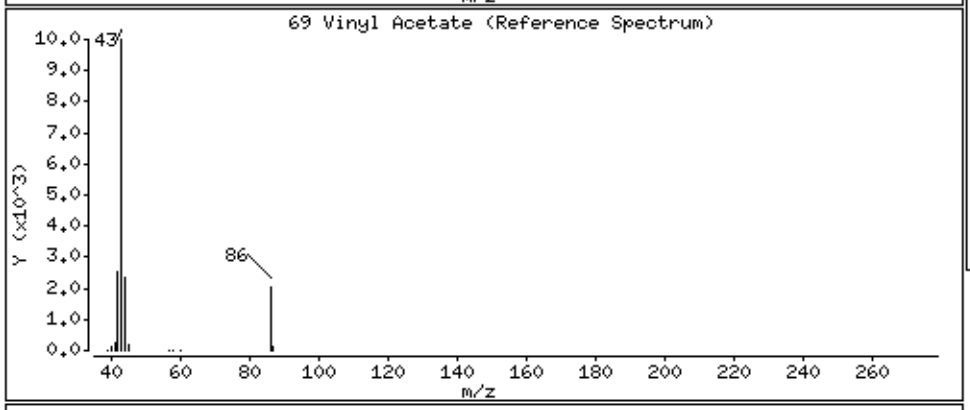
69 Vinyl Acetate

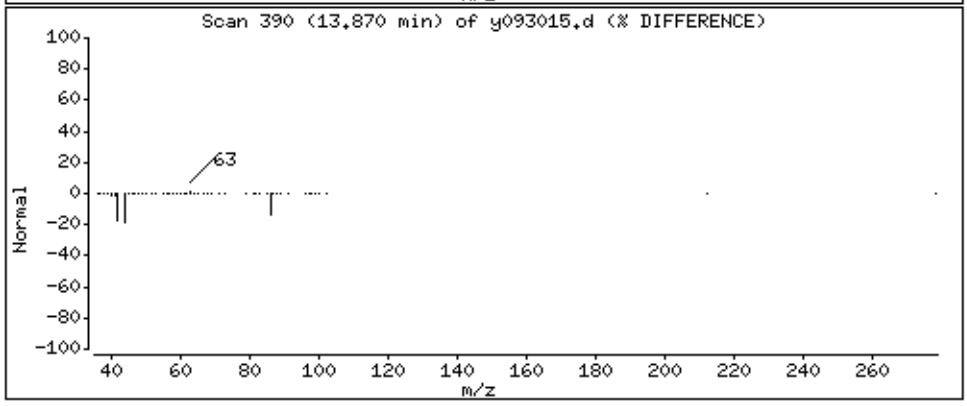












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

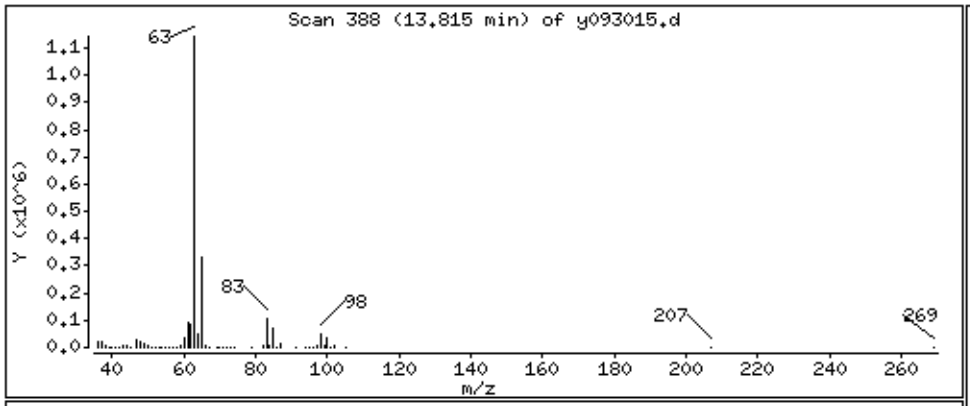
Operator: db

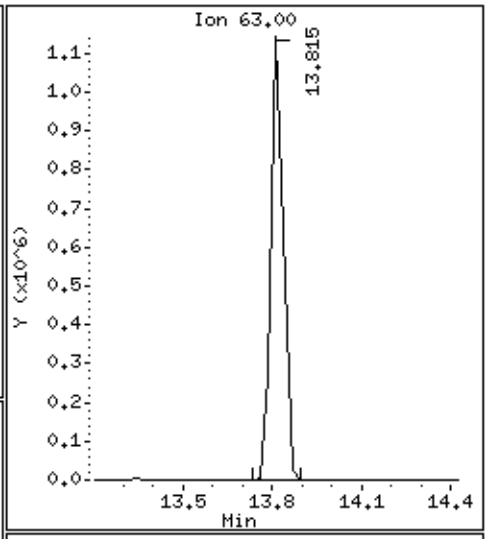
Column phase: RTx-624

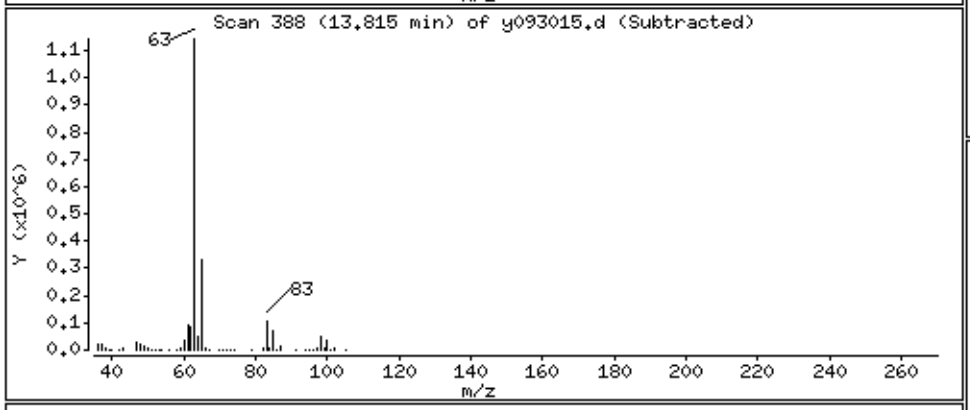
Column diameter: 0.53

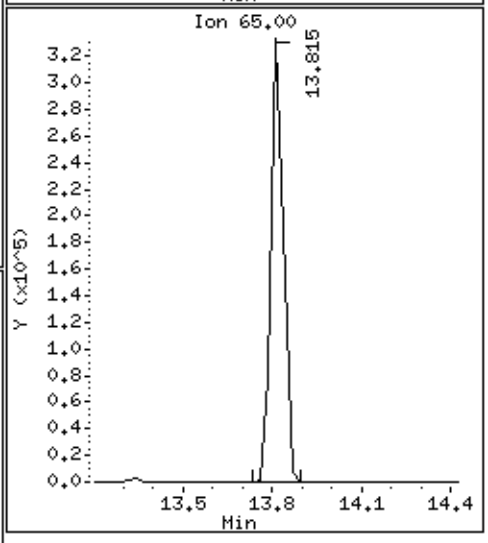
67 1,1-Dichloroethane

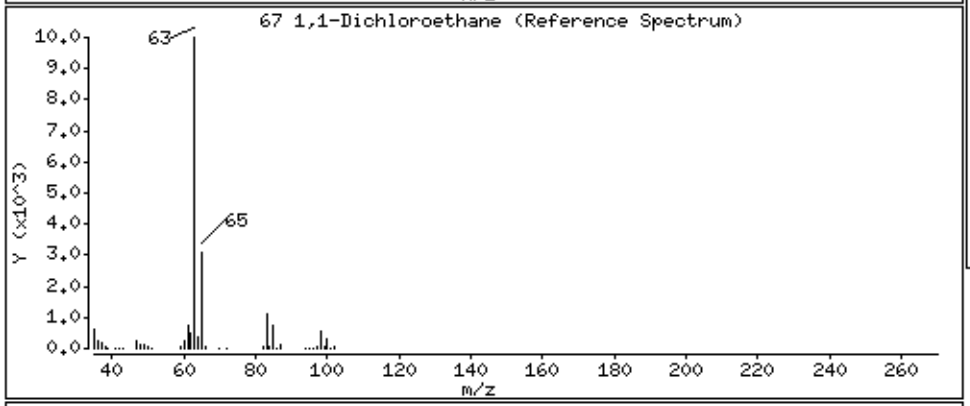
Concentration: 58.863 PPBV

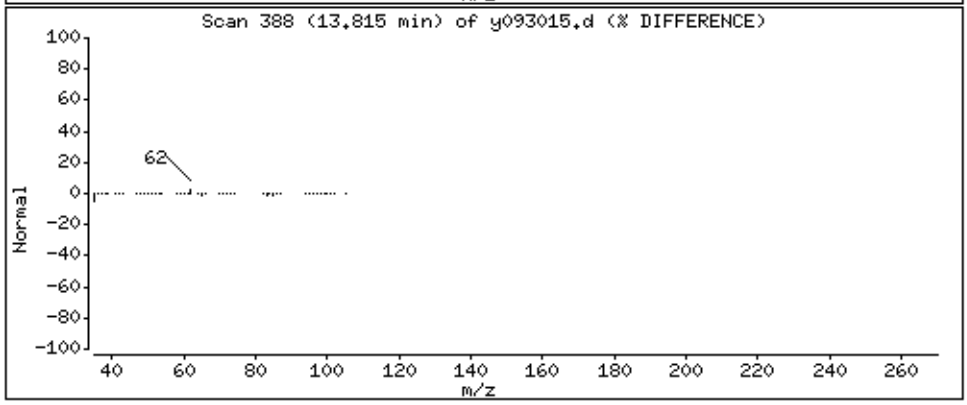












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

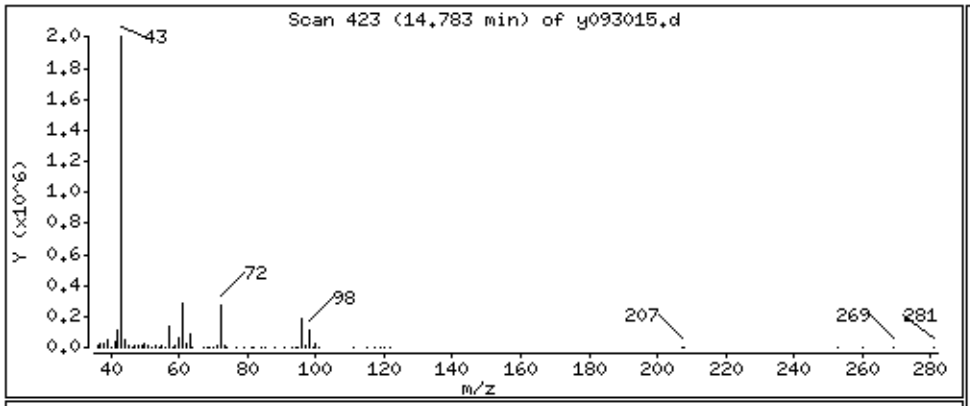
Operator: db

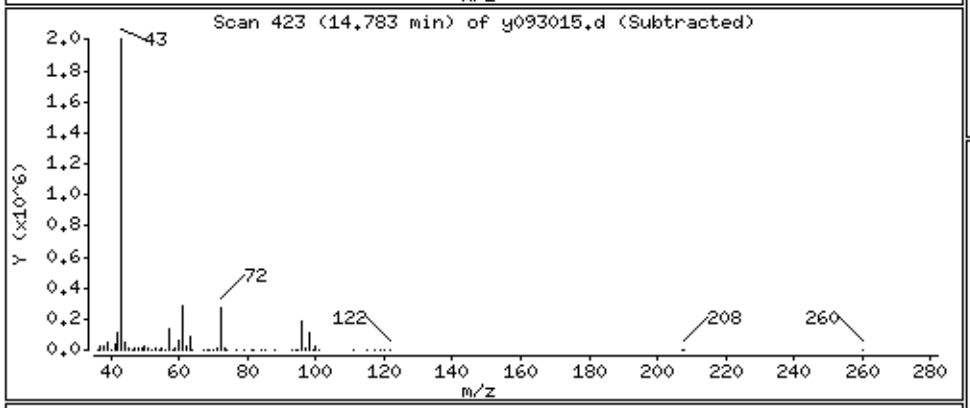
Column phase: RTx-624

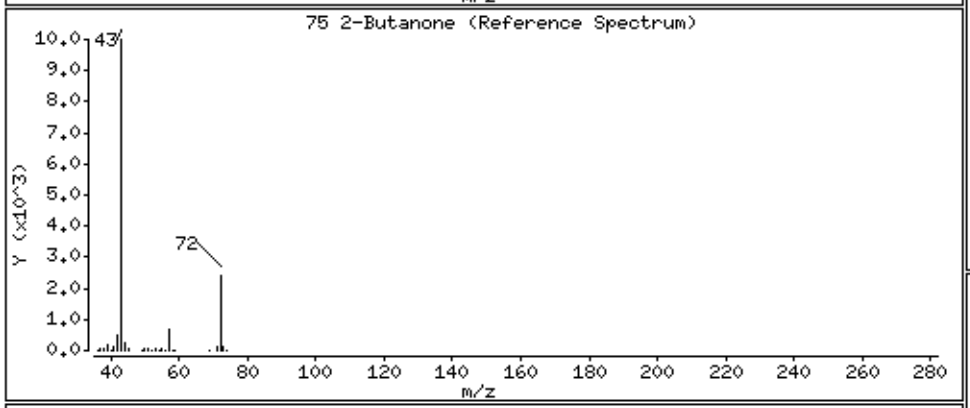
Column diameter: 0.53

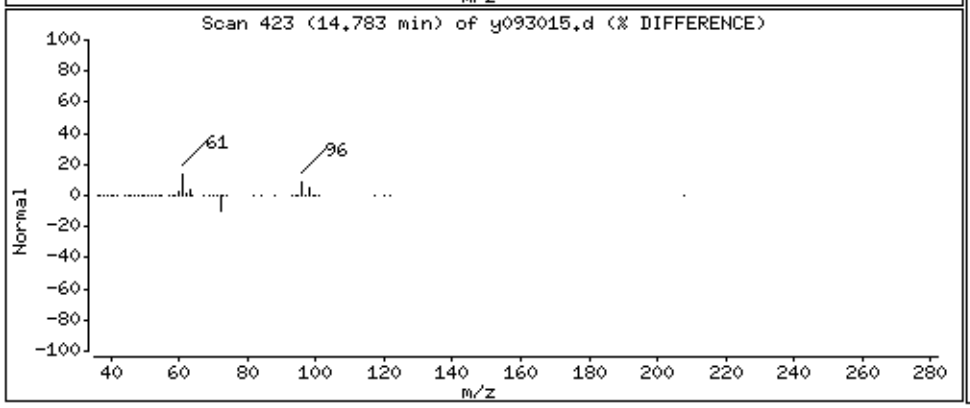
75 2-Butanone

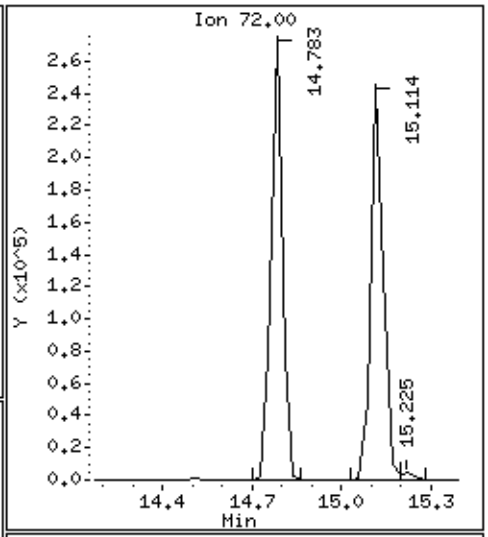
Concentration: 52.043 PPBV

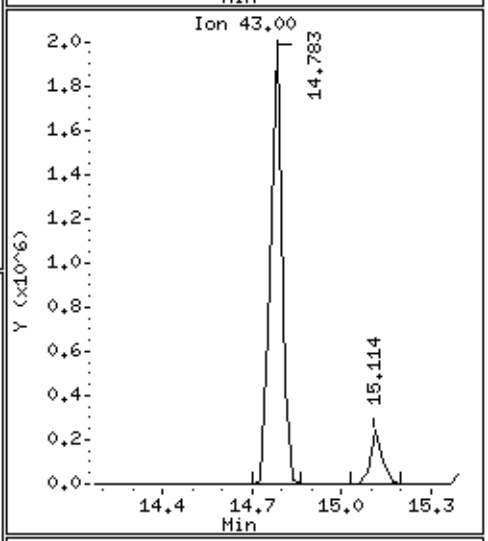


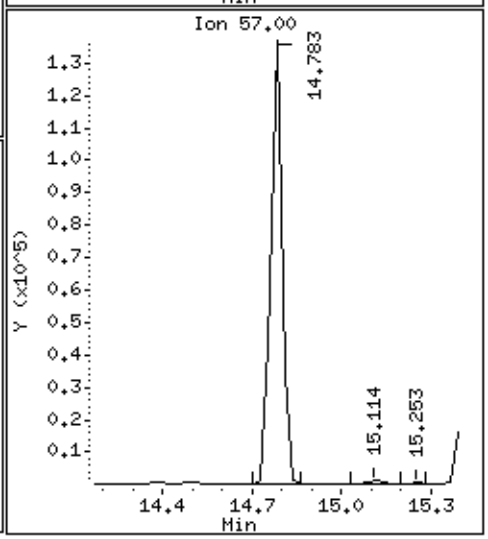












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

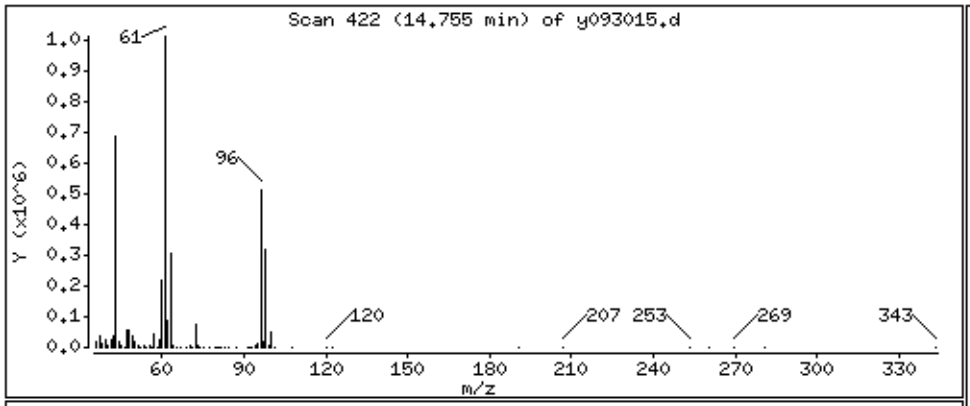
Operator: db

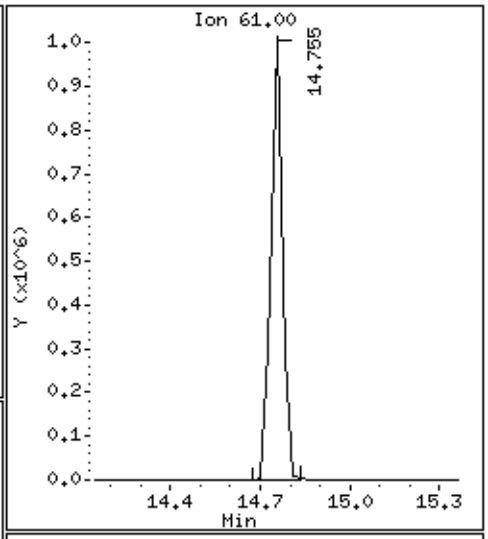
Column phase: RTx-624

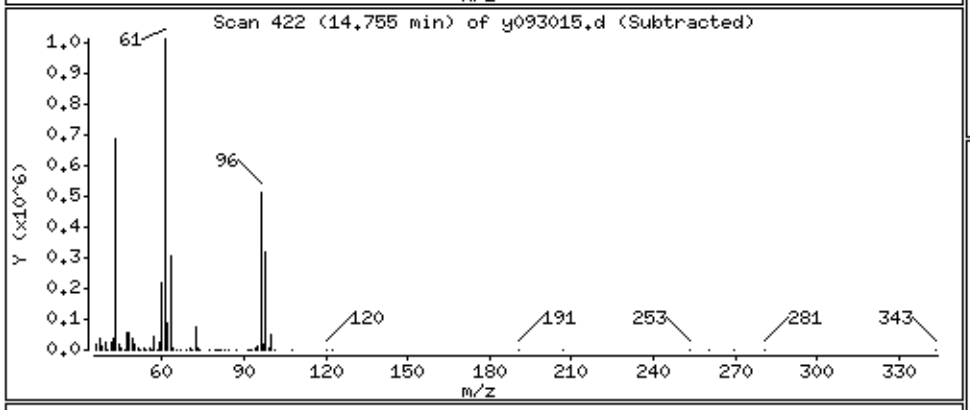
Column diameter: 0.53

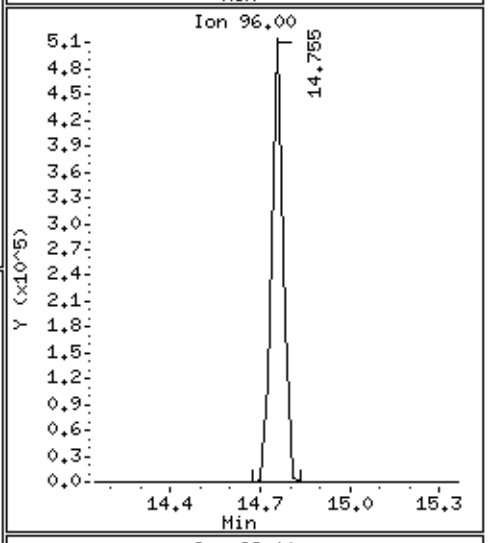
74 cis-1,2-Dichloroethene

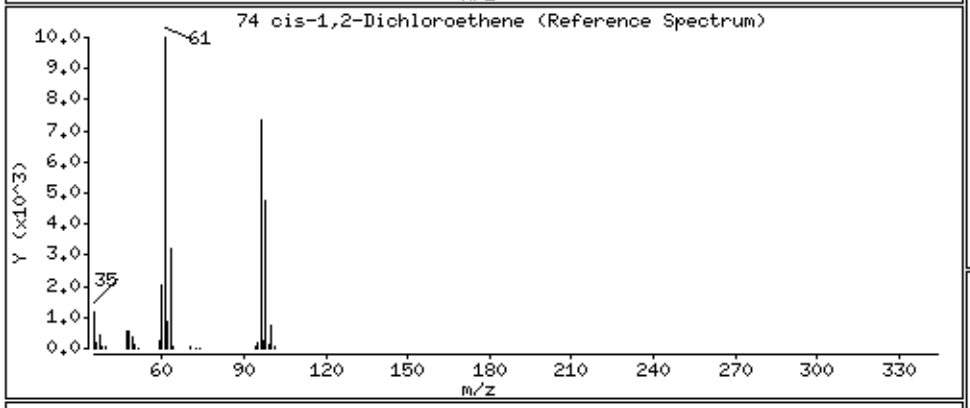
Concentration: 52.763 PPBV

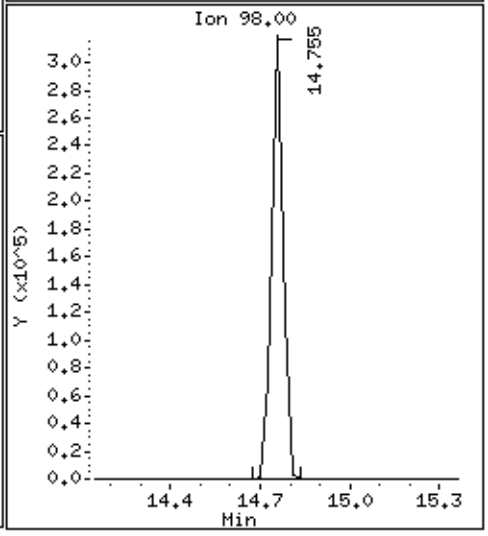


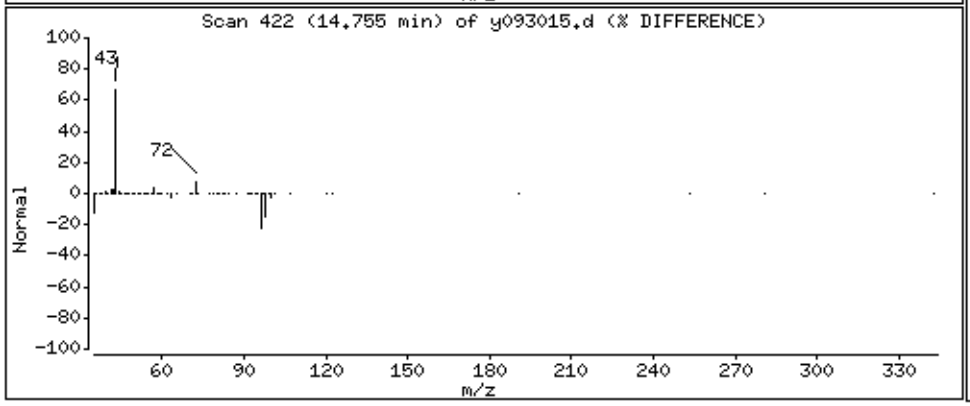












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

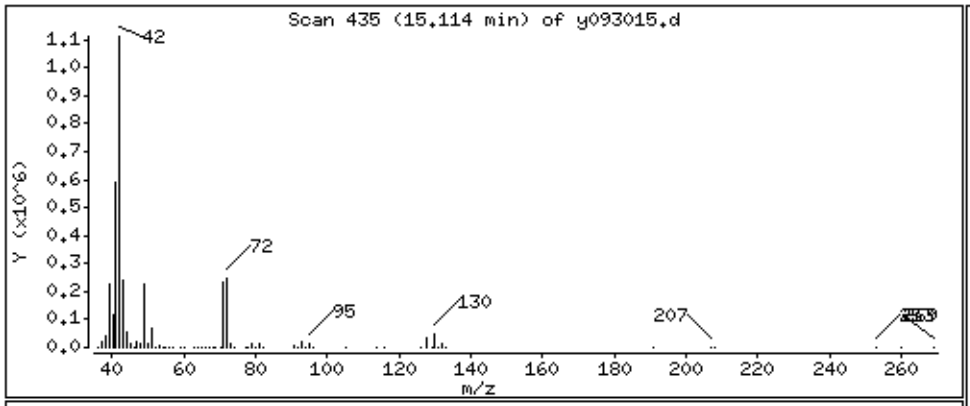
Operator: db

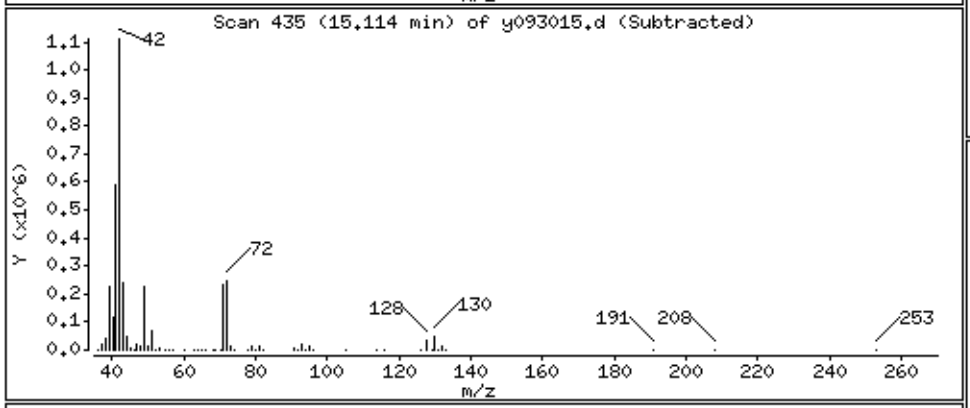
Column phase: RTx-624

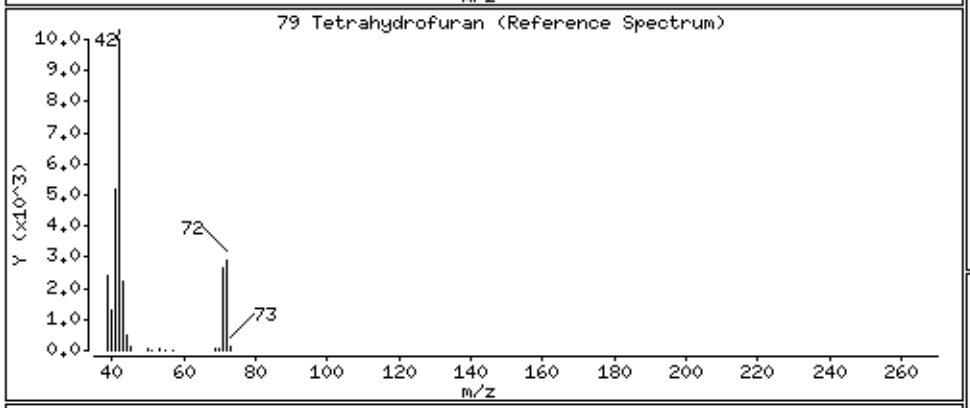
Column diameter: 0.53

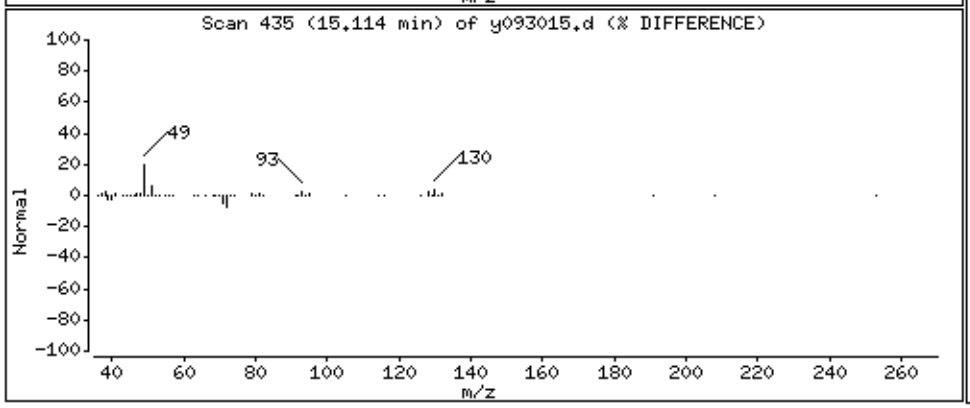
79 Tetrahydrofuran

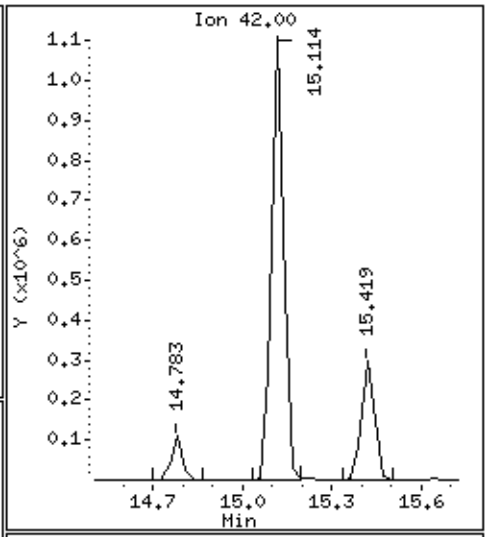
Concentration: 51.726 PPBV

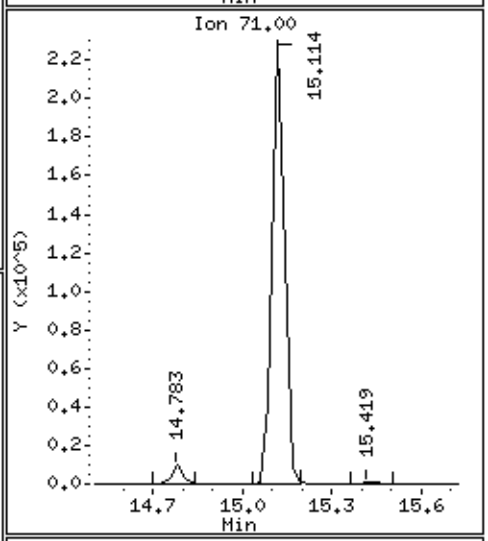


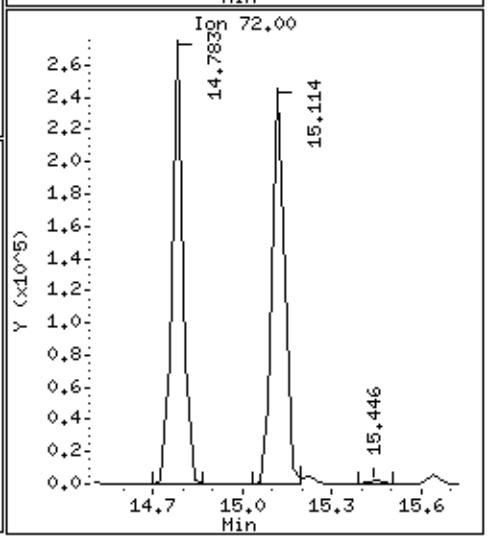












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

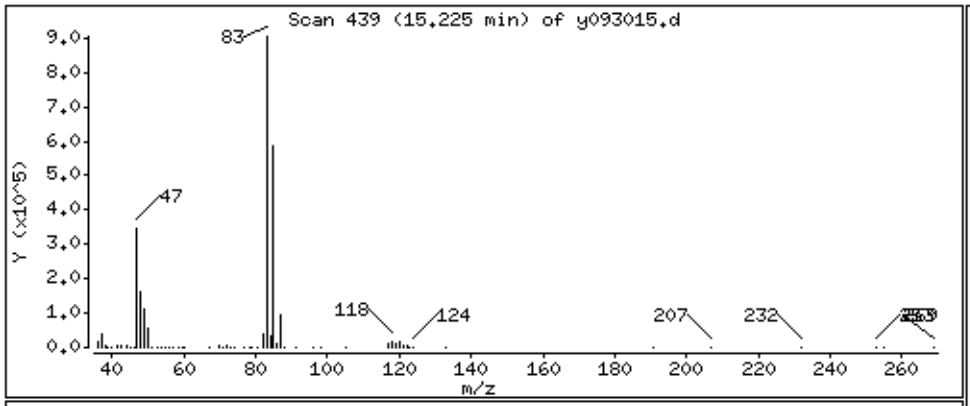
Operator: db

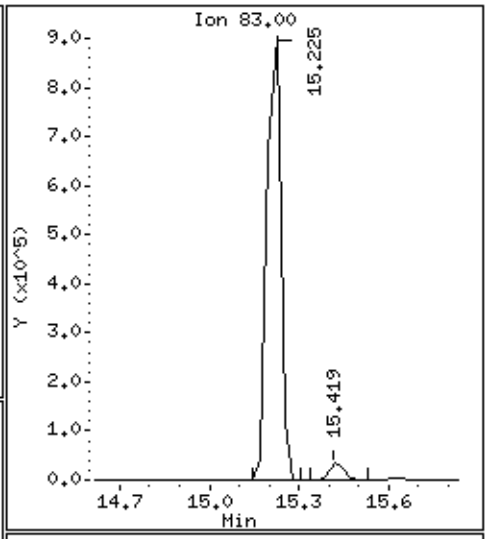
Column phase: RTx-624

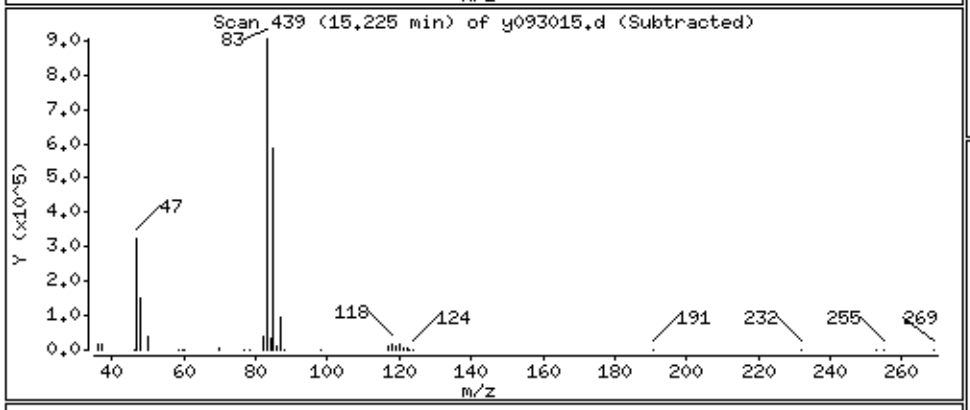
Column diameter: 0.53

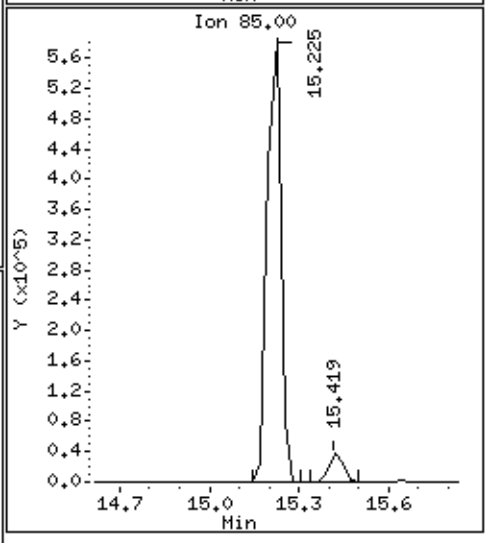
82 Chloroform

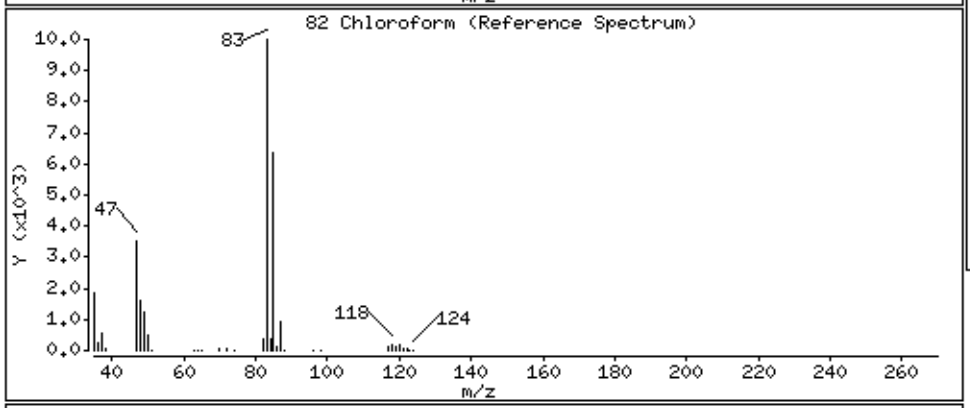
Concentration: 53.491 PPBV

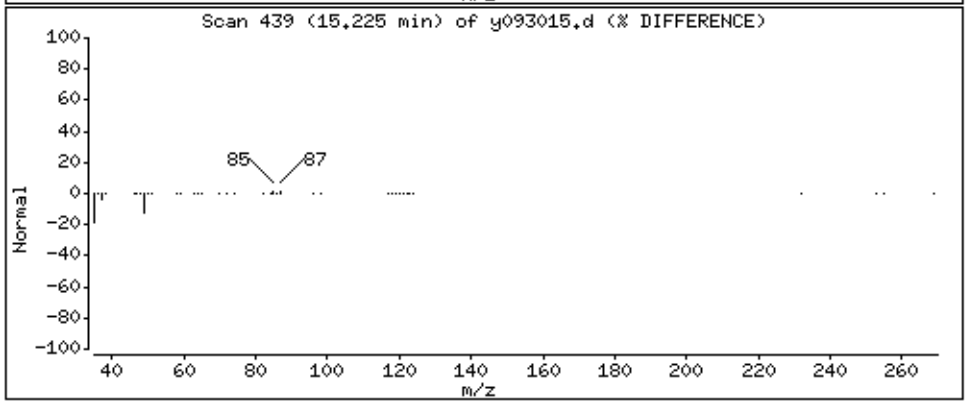












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

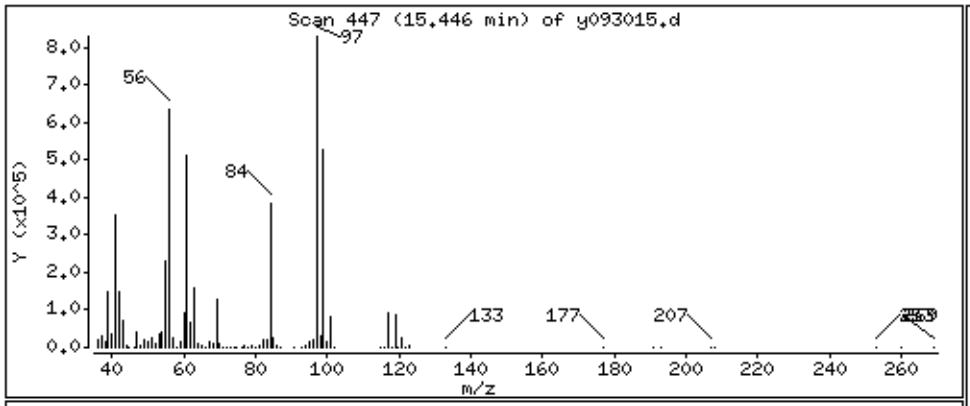
Operator: db

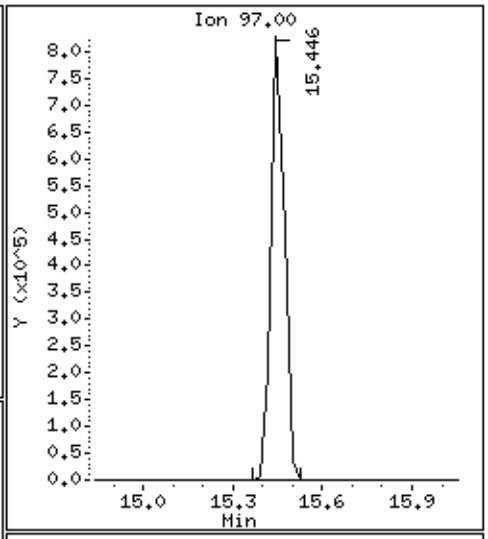
Column phase: RTx-624

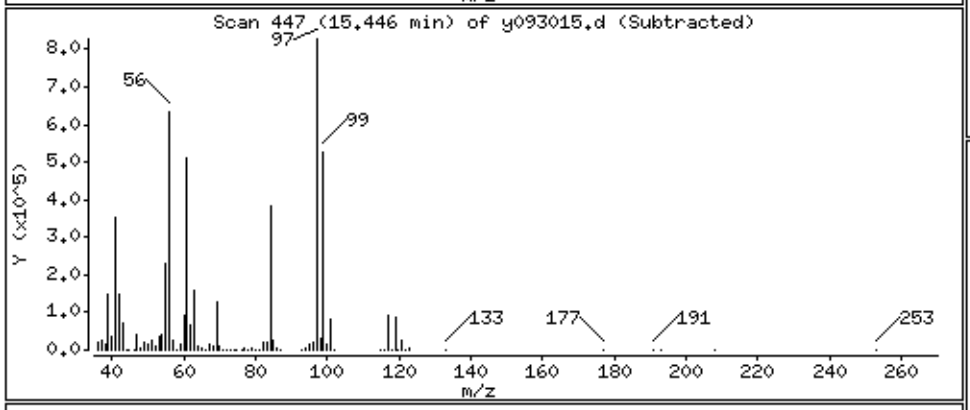
Column diameter: 0.53

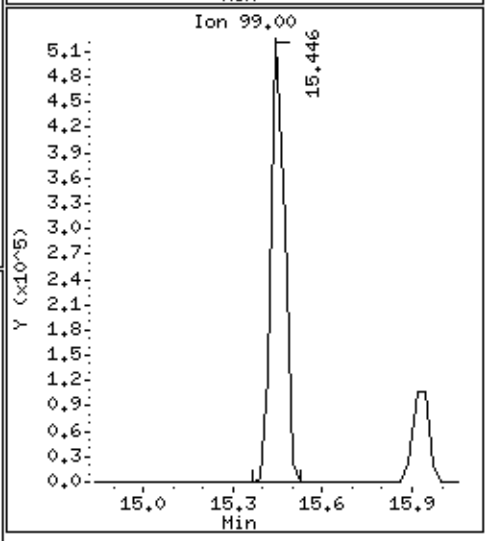
84 1,1,1-Trichloroethane

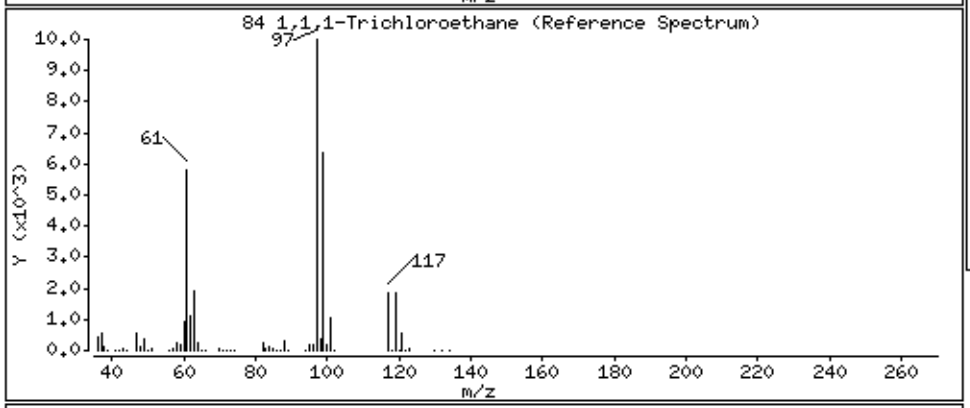
Concentration: 61.447 PPBV

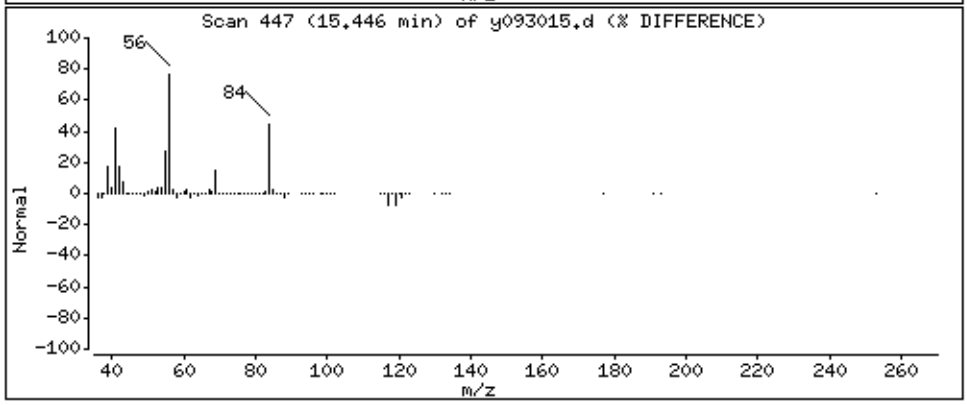












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

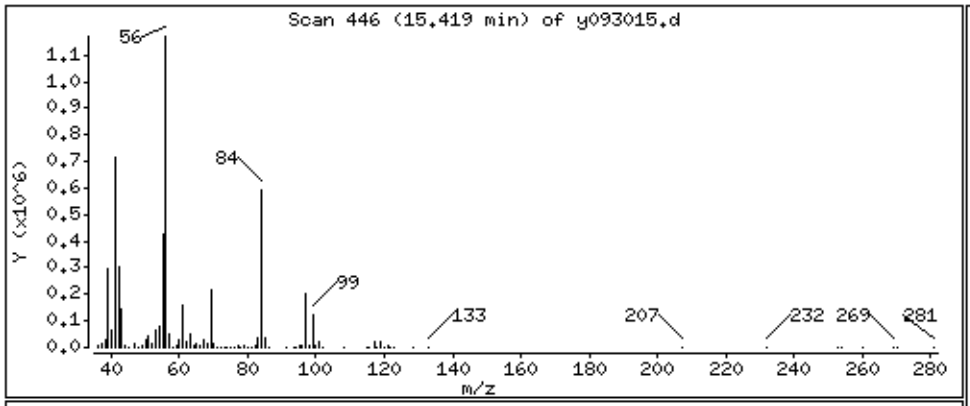
Operator: db

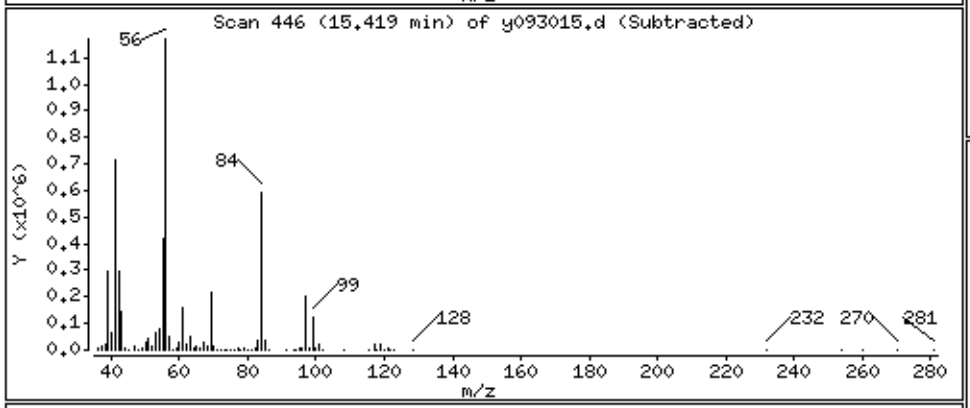
Column phase: RTx-624

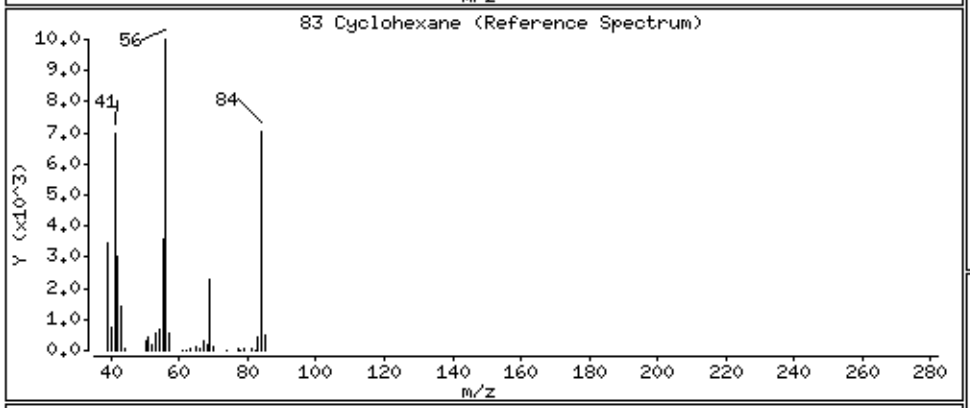
Column diameter: 0.53

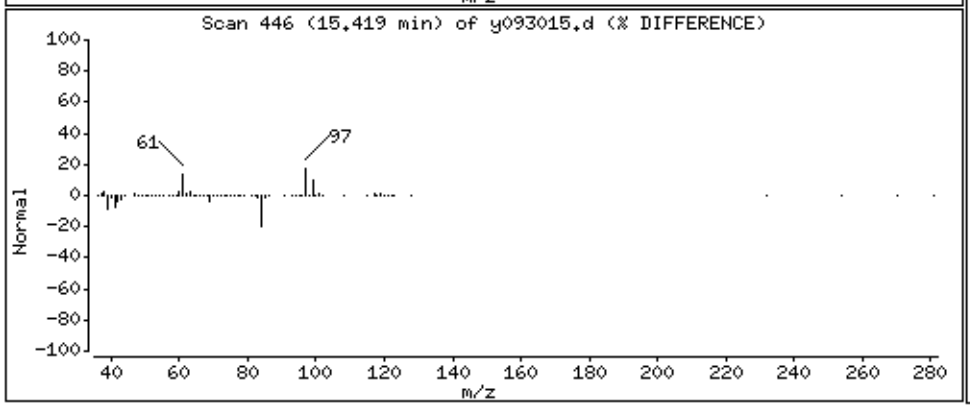
83 Cyclohexane

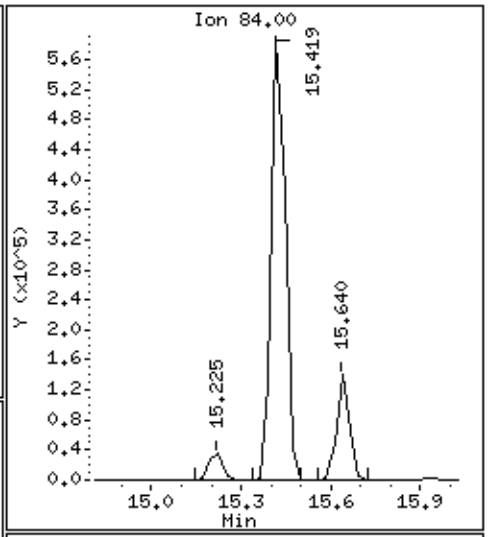
Concentration: 52.067 PPBV

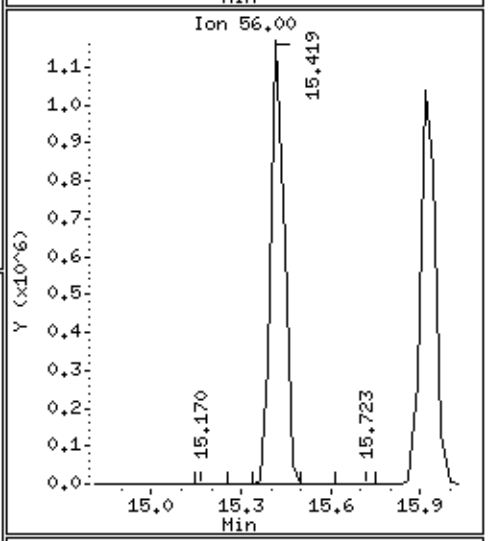


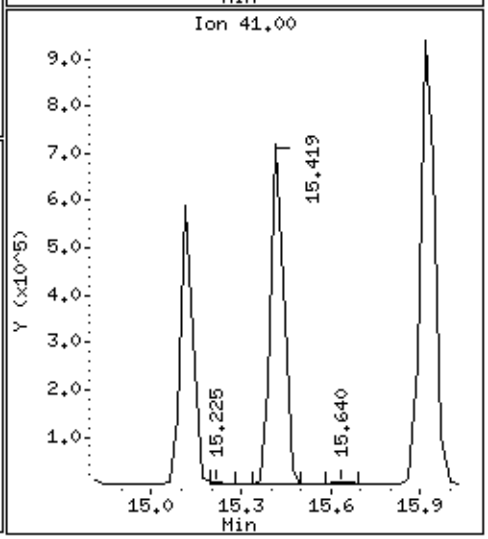












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

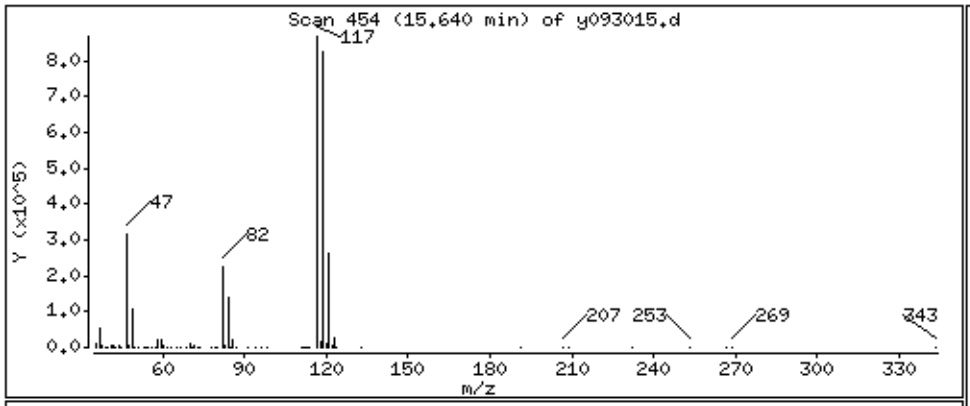
Operator: db

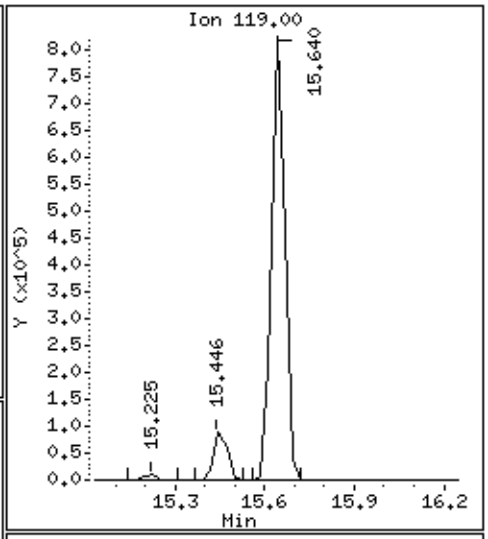
Column phase: RTx-624

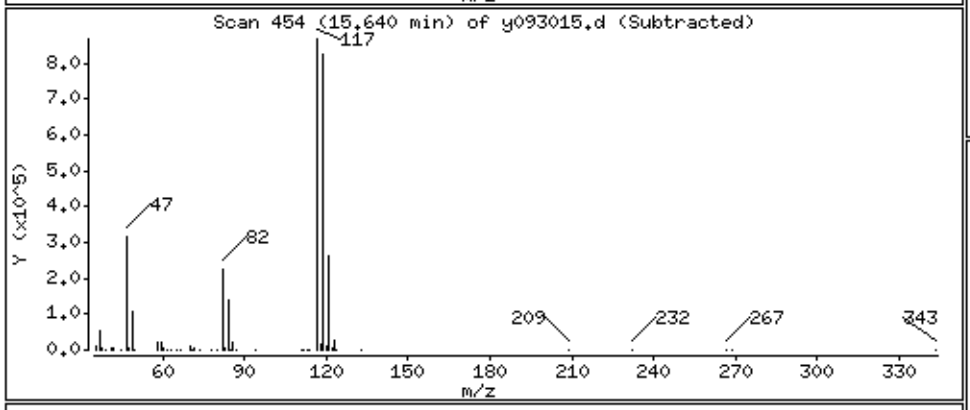
Column diameter: 0.53

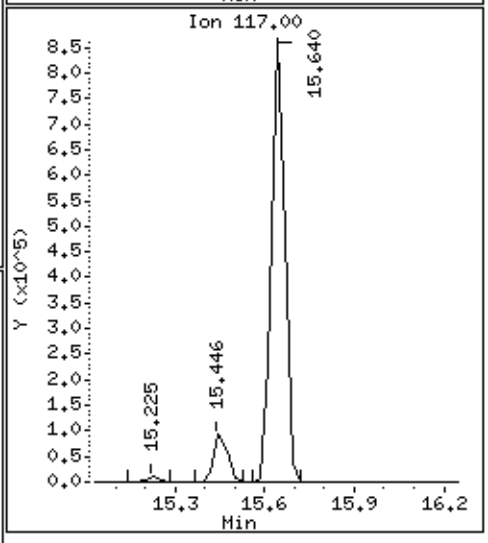
85 Carbon Tetrachloride

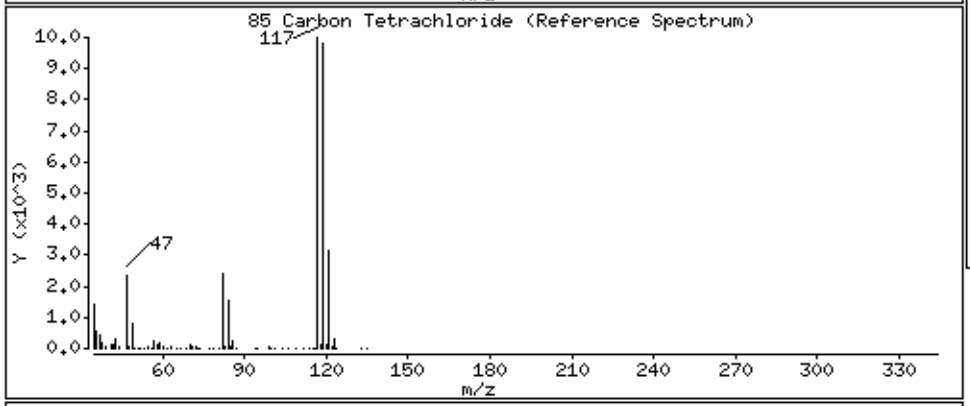
Concentration: 53.628 PPBV

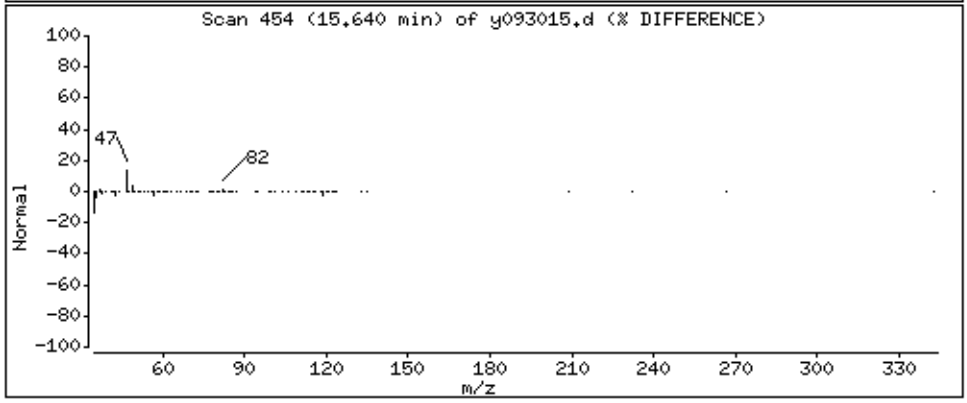












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

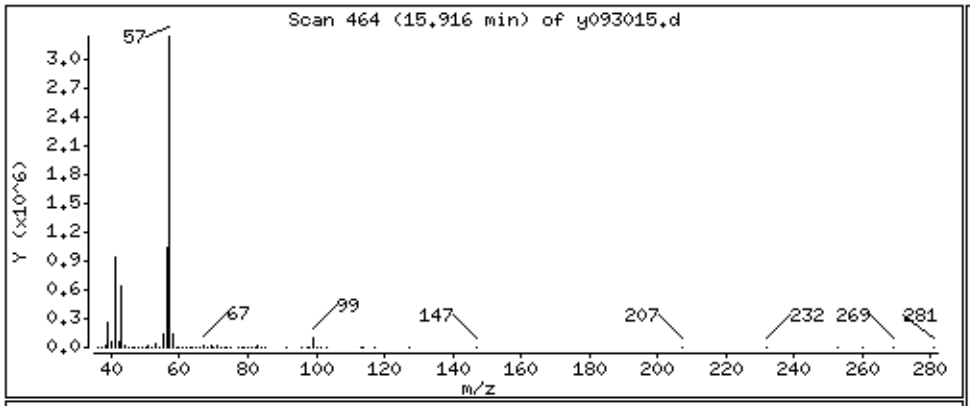
Operator: db

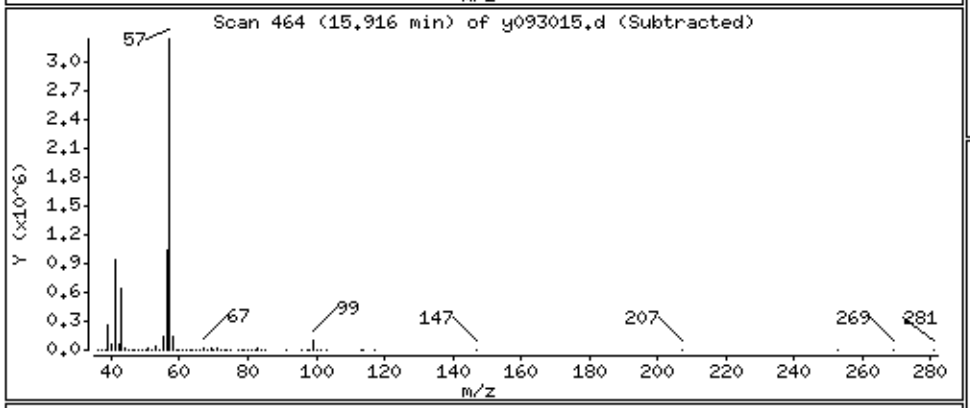
Column phase: RTx-624

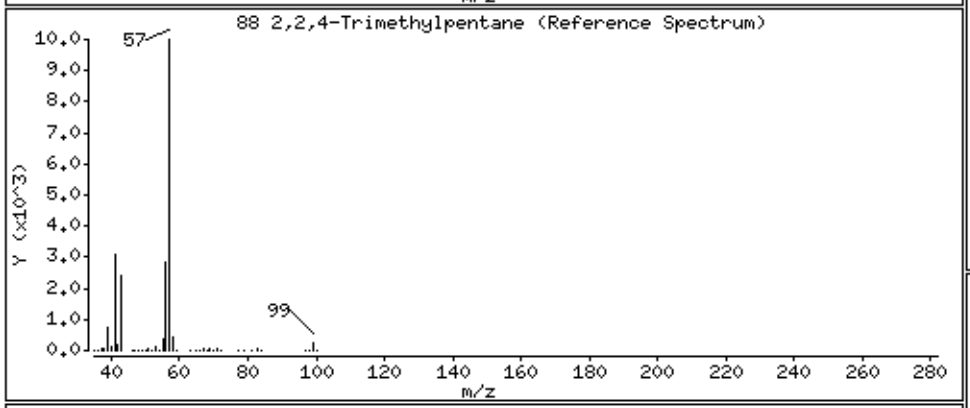
Column diameter: 0.53

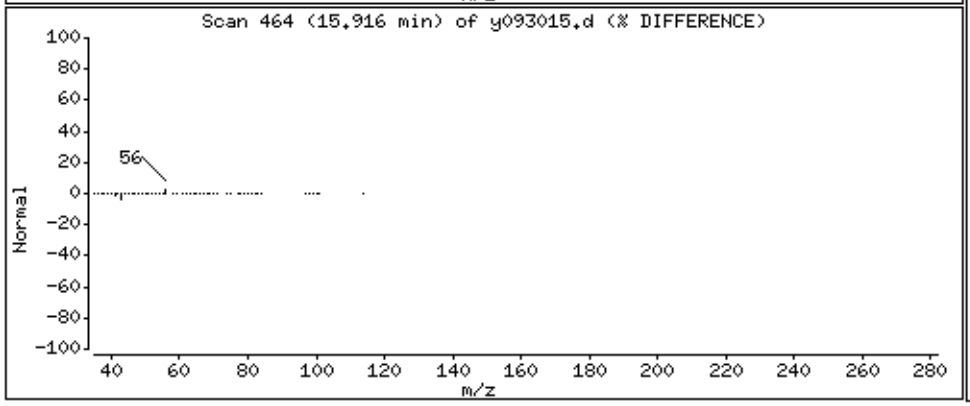
88 2,2,4-Trimethylpentane

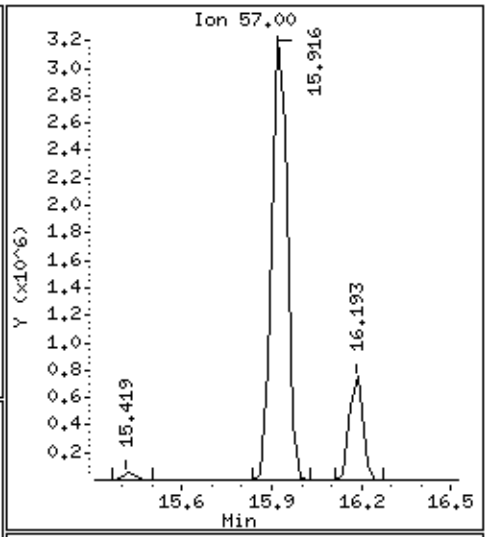
Concentration: 52.784 PPBV

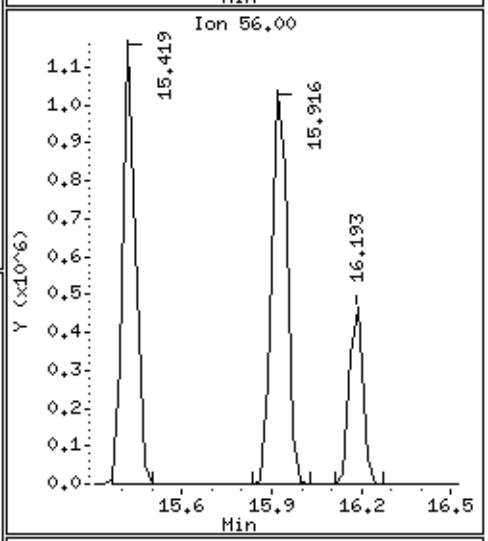


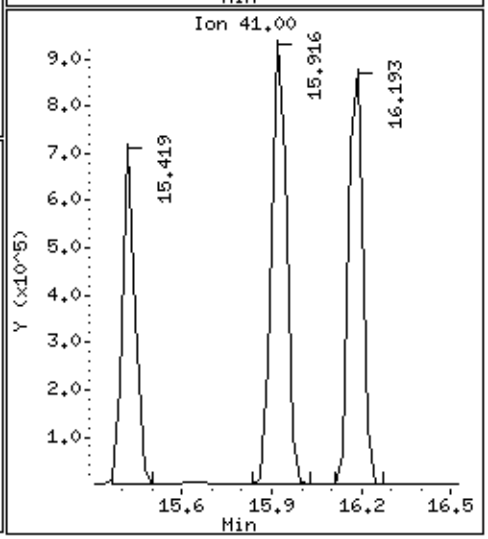












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

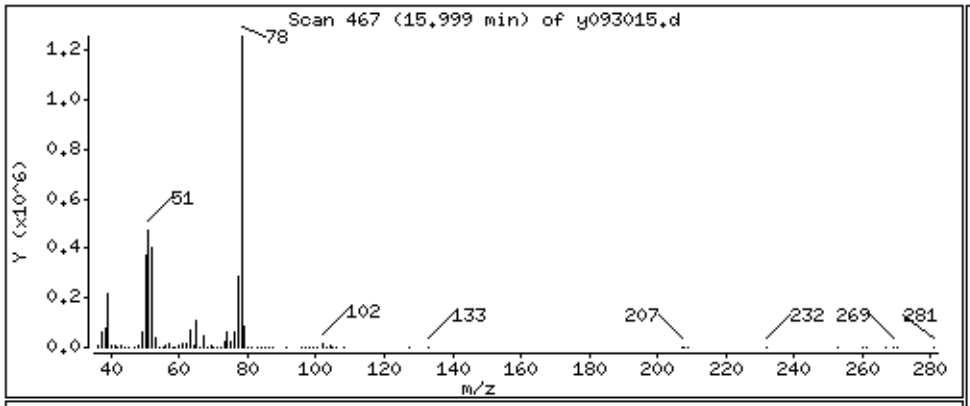
Operator: db

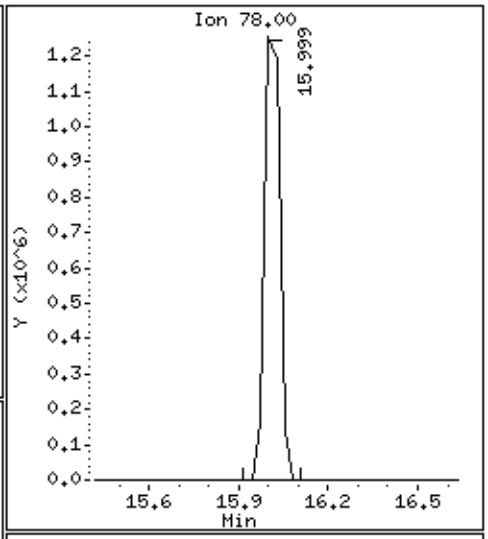
Column phase: RTx-624

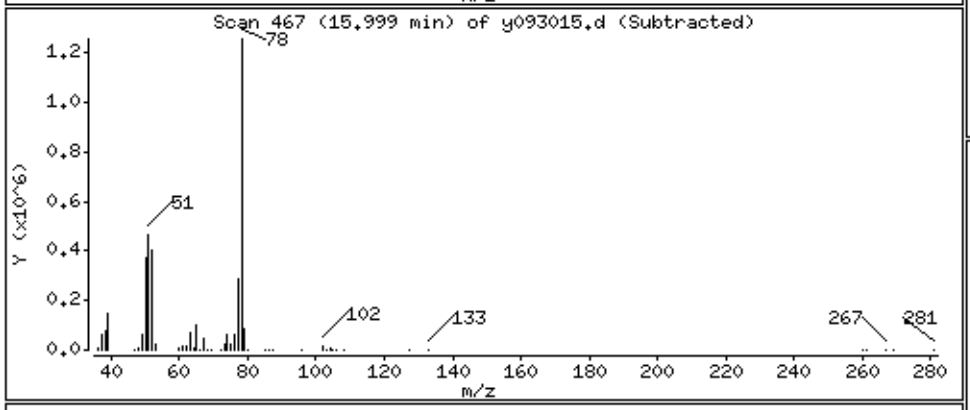
Column diameter: 0.53

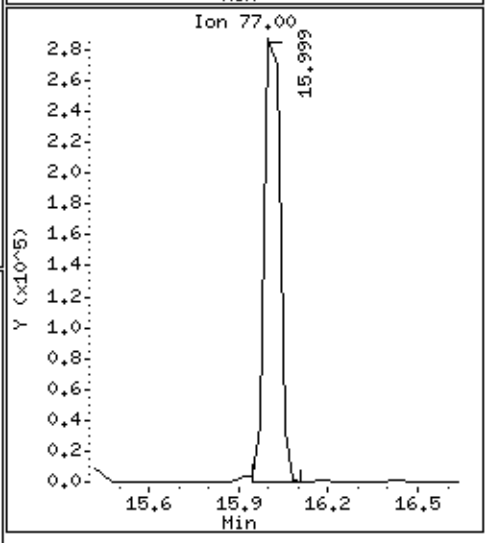
90 Benzene

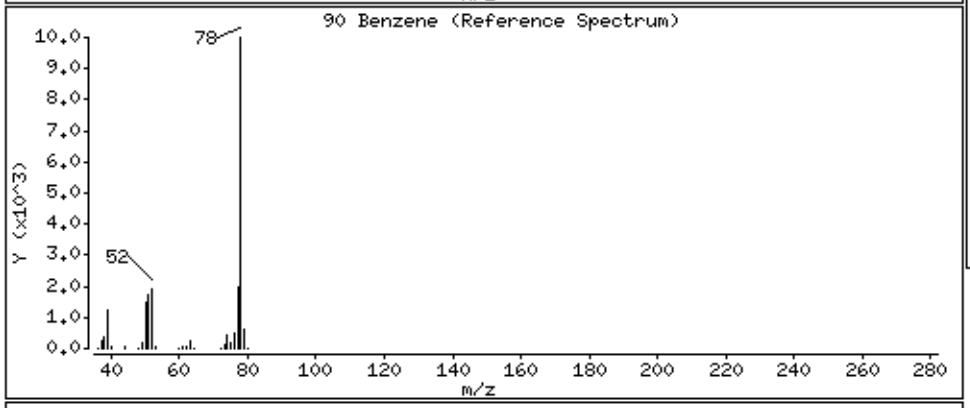
Concentration: 49.968 PPBV

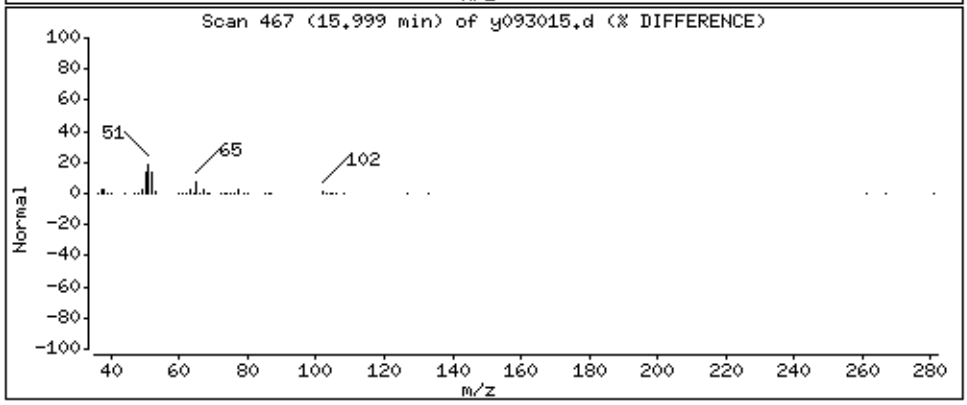












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

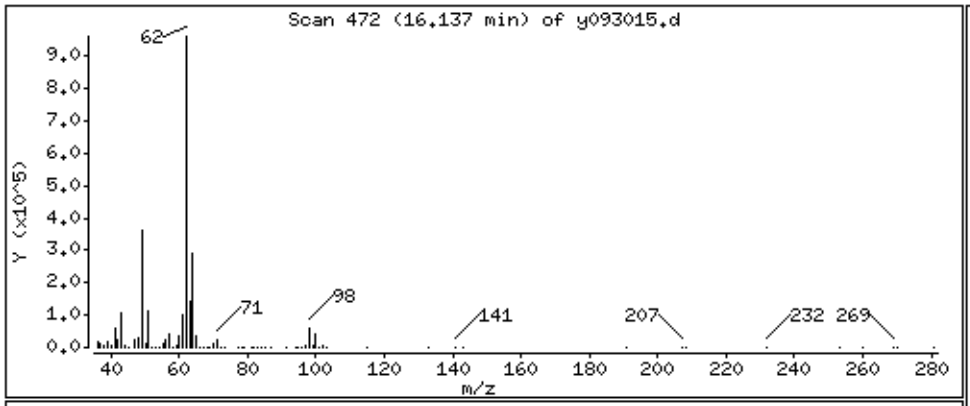
Operator: db

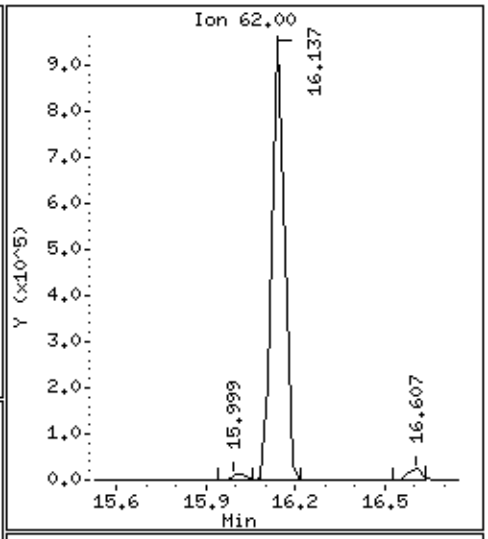
Column phase: RTx-624

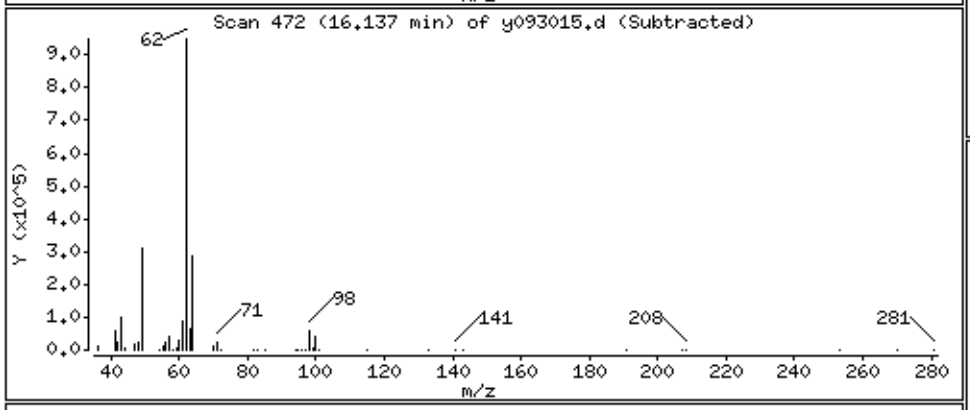
Column diameter: 0.53

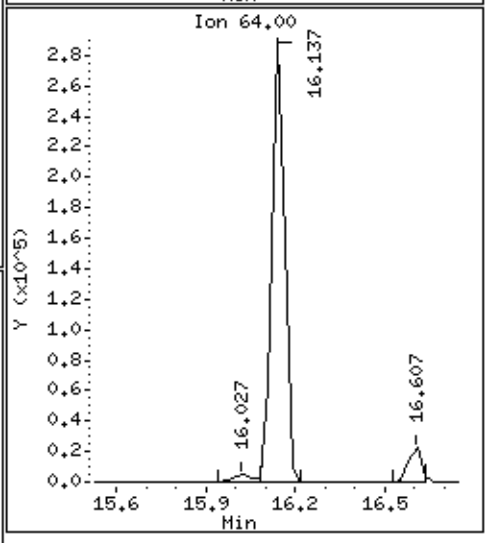
92 1,2-Dichloroethane

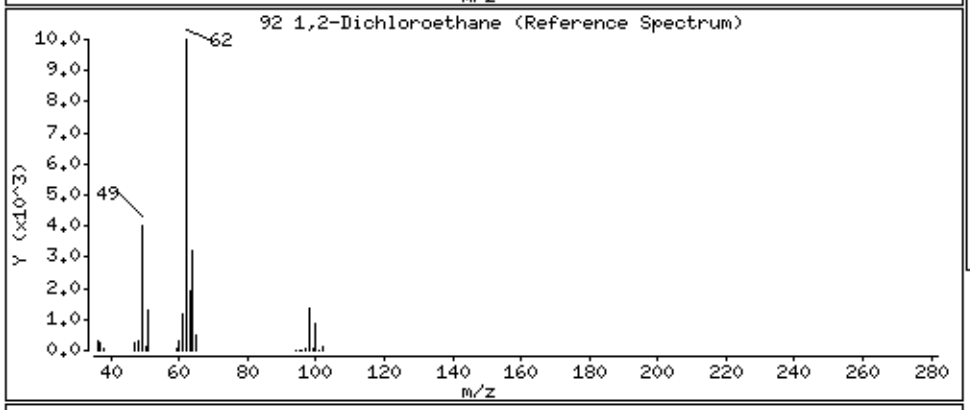
Concentration: 54.106 PPBV

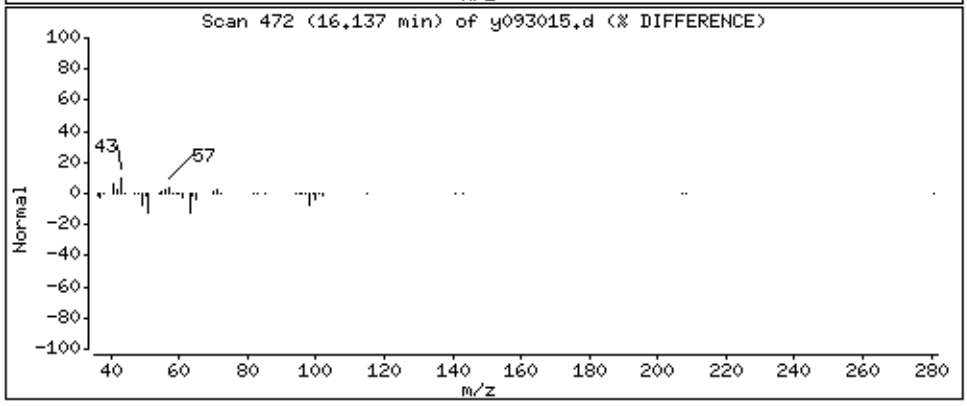












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

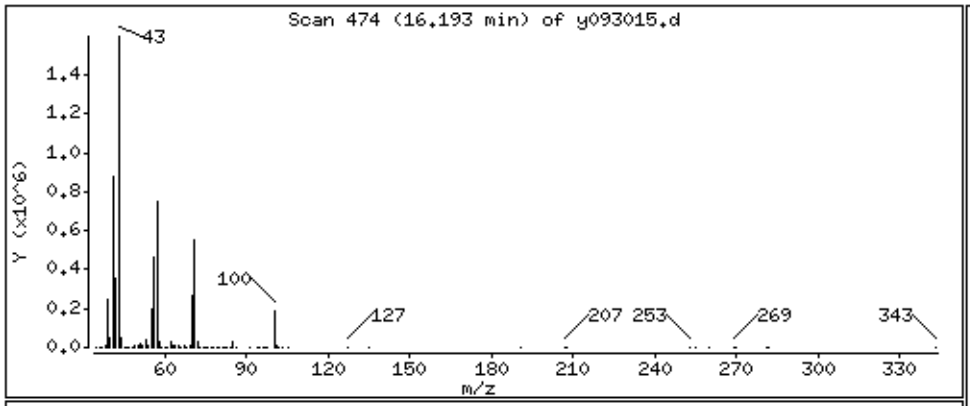
Operator: db

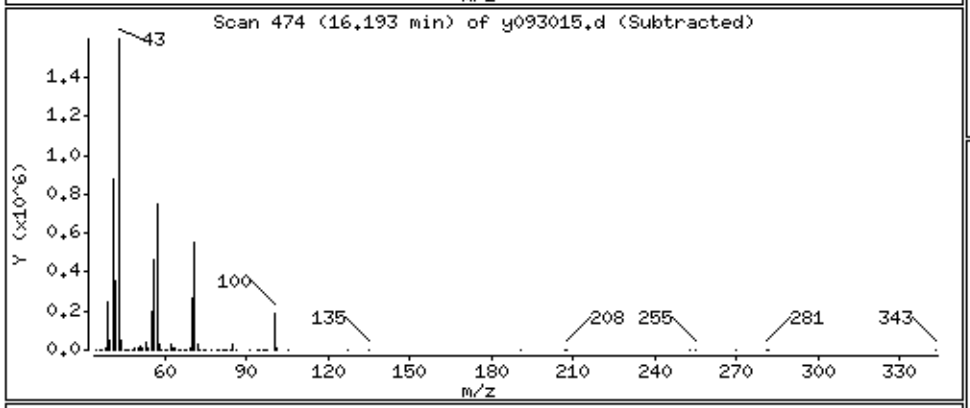
Column phase: RTx-624

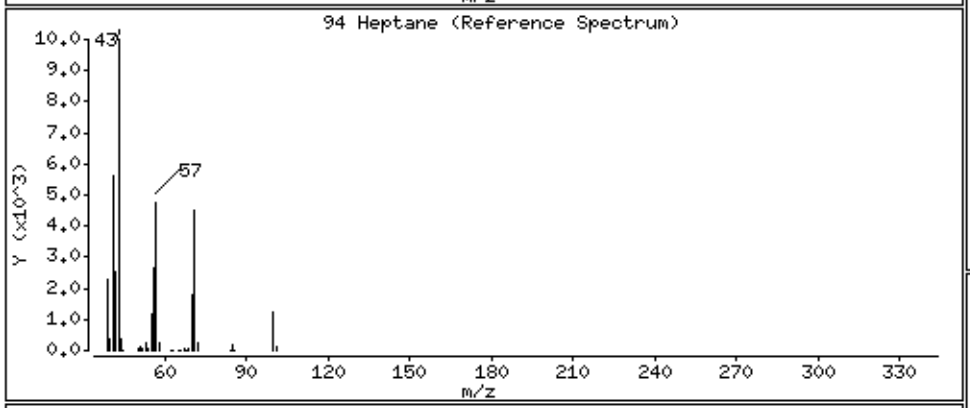
Column diameter: 0.53

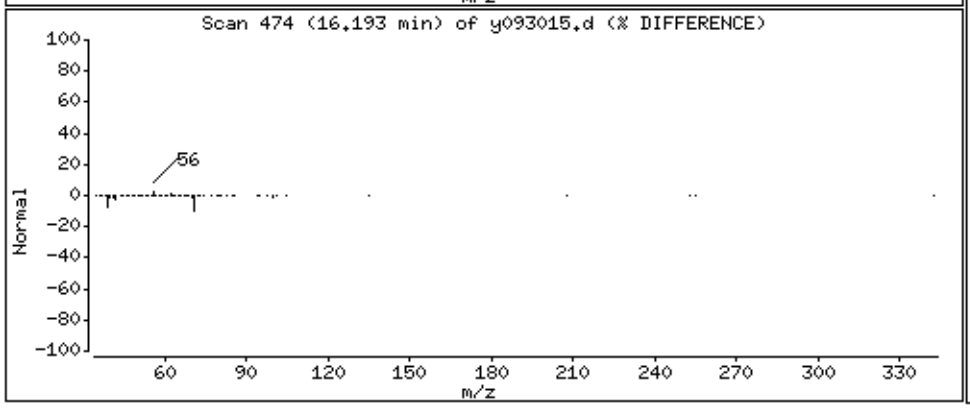
94 Heptane

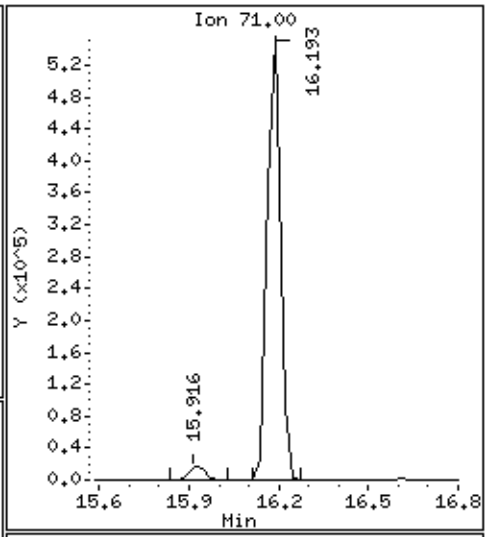
Concentration: 51.665 PPBV

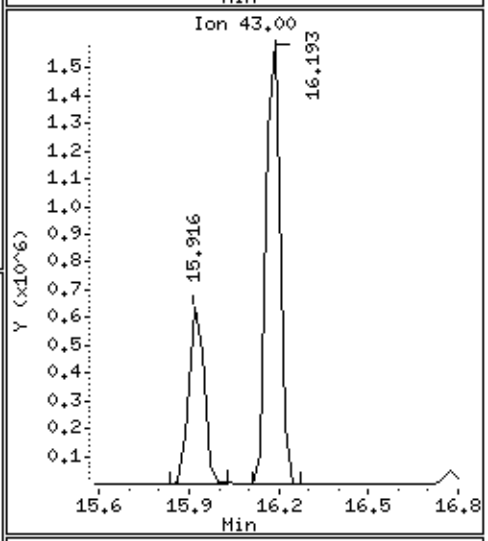


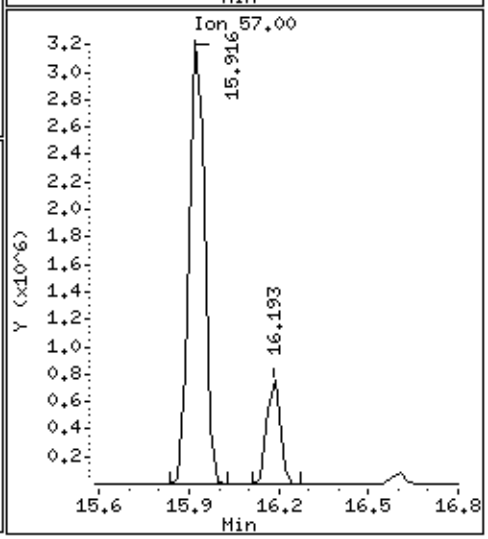












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

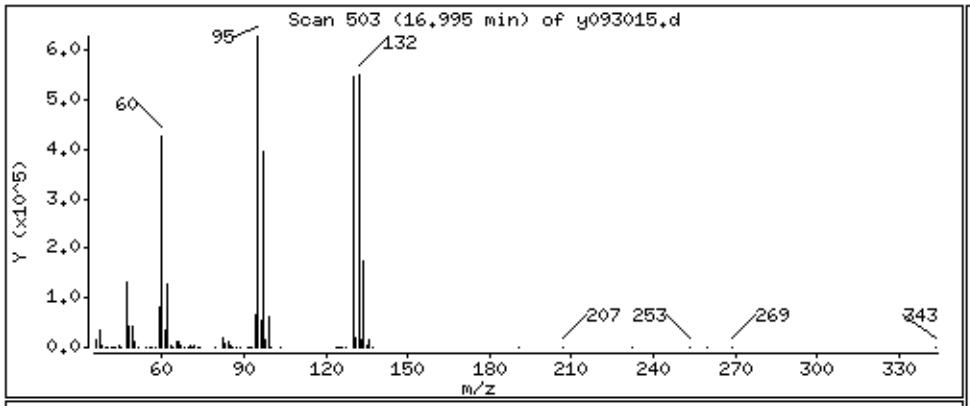
Operator: db

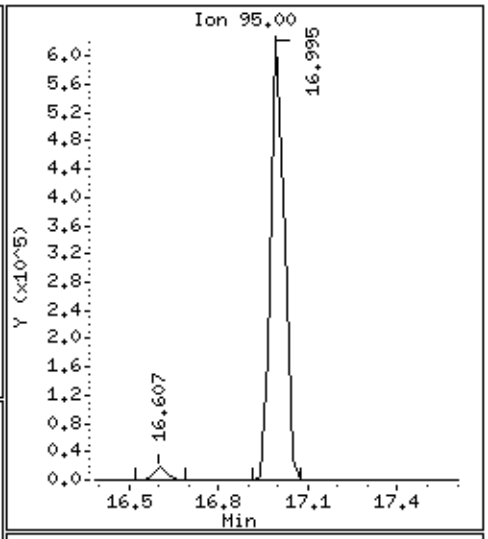
Column phase: RTx-624

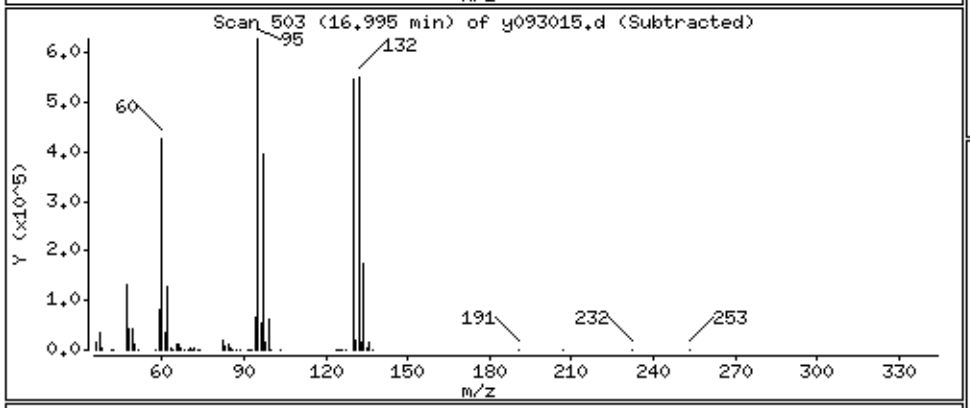
Column diameter: 0.53

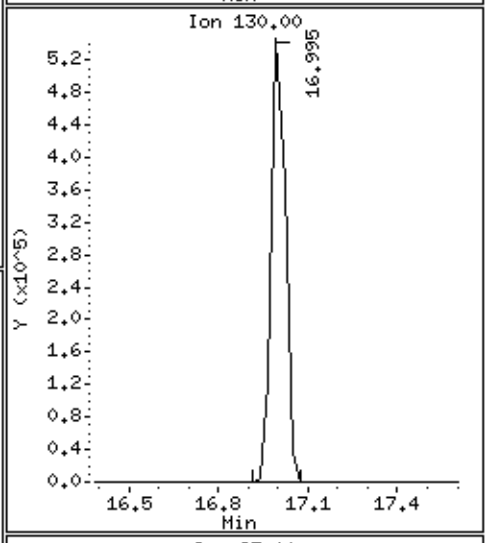
97 Trichloroethene

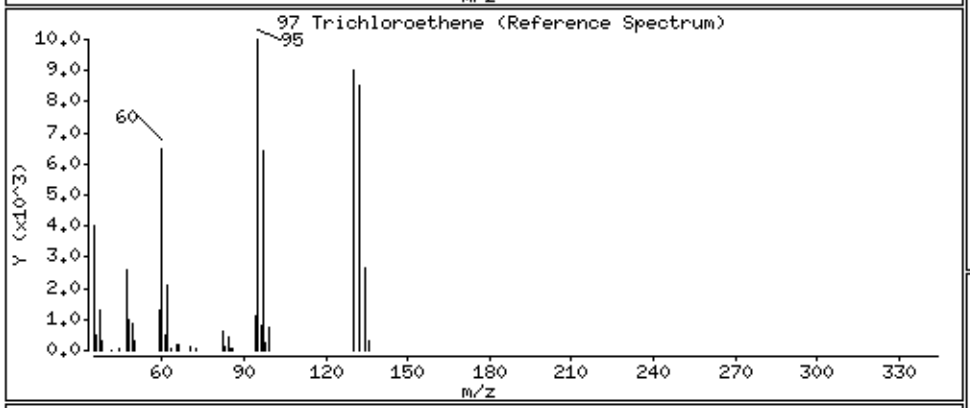
Concentration: 52.405 PPBV

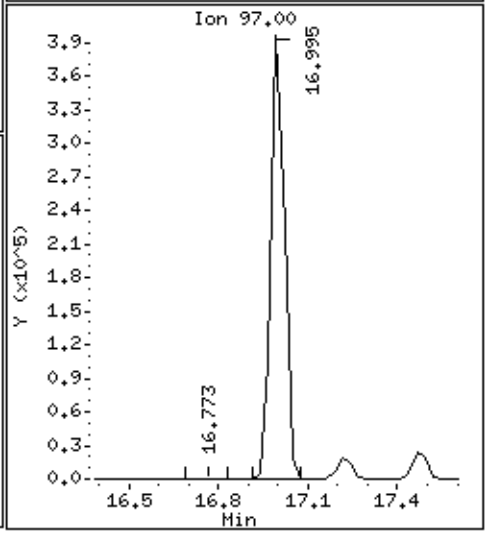


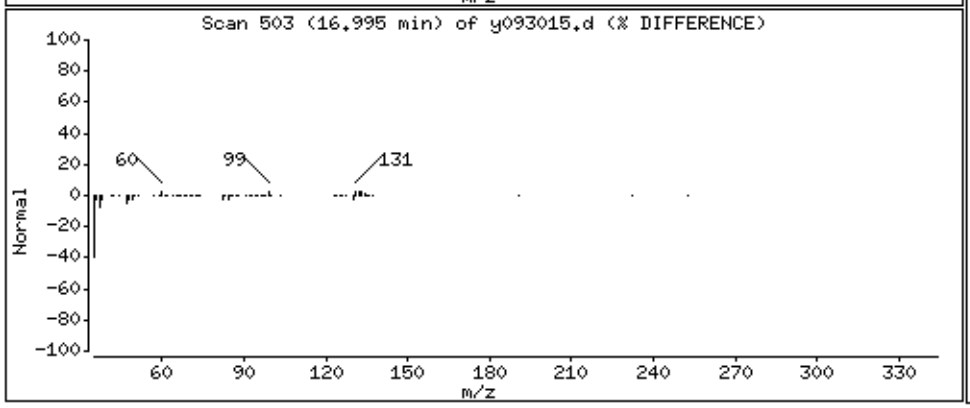












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

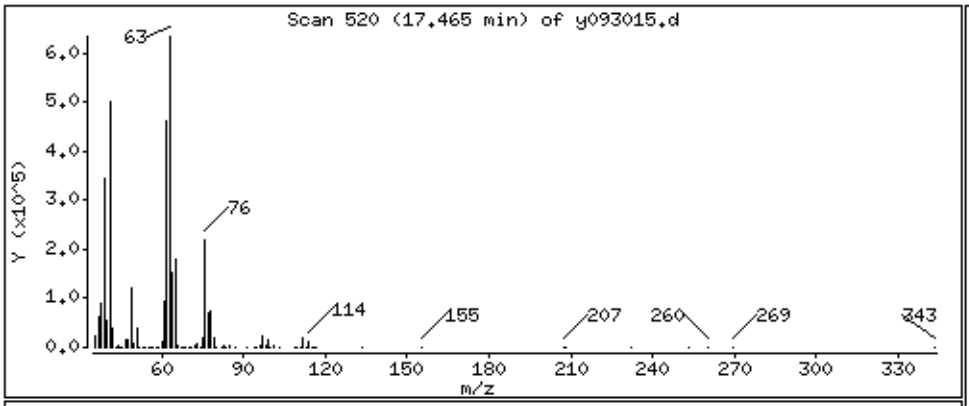
Operator: db

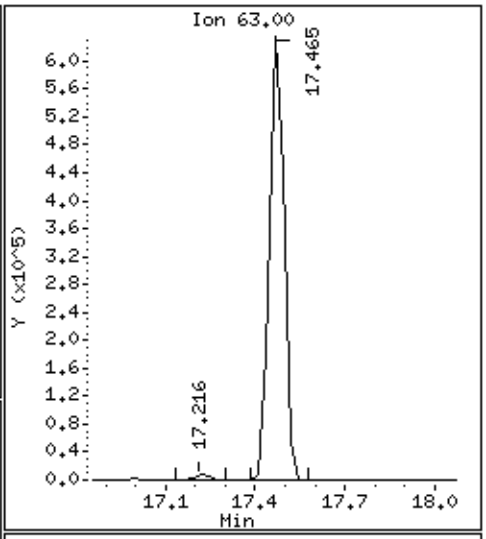
Column phase: RTx-624

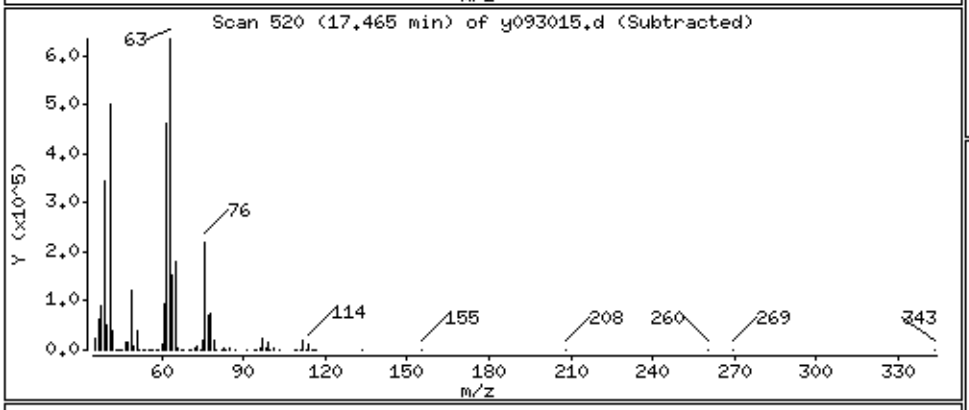
Column diameter: 0.53

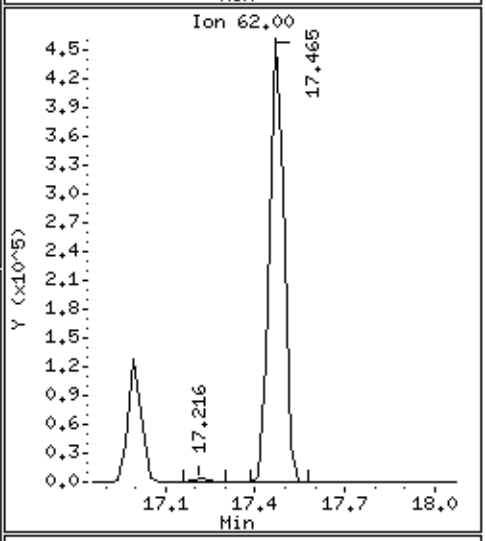
101 1,2-Dichloropropane

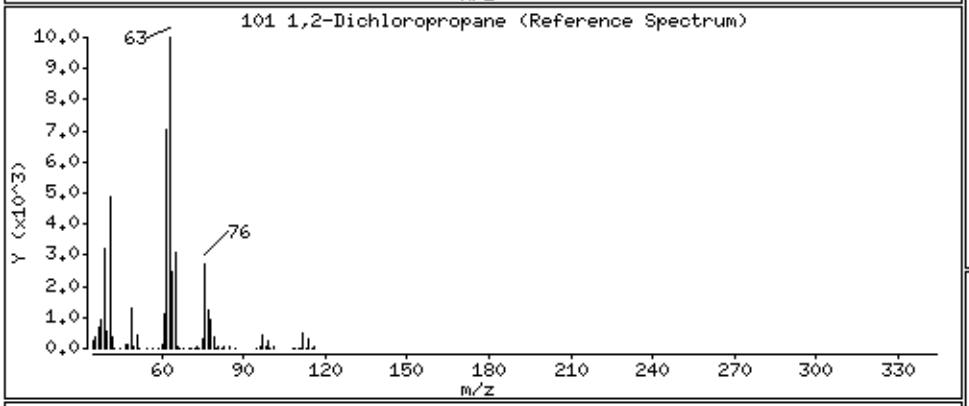
Concentration: 52.275 PPBV

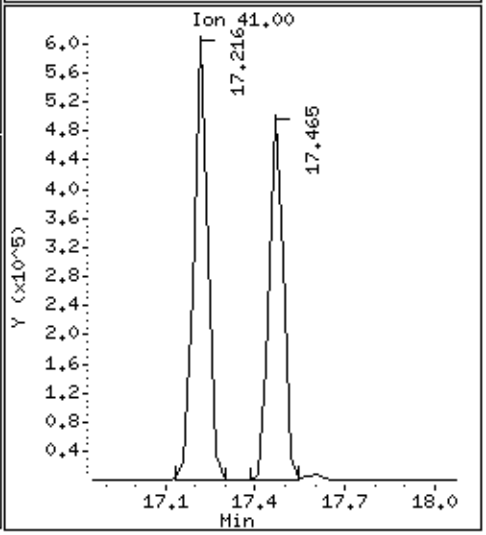


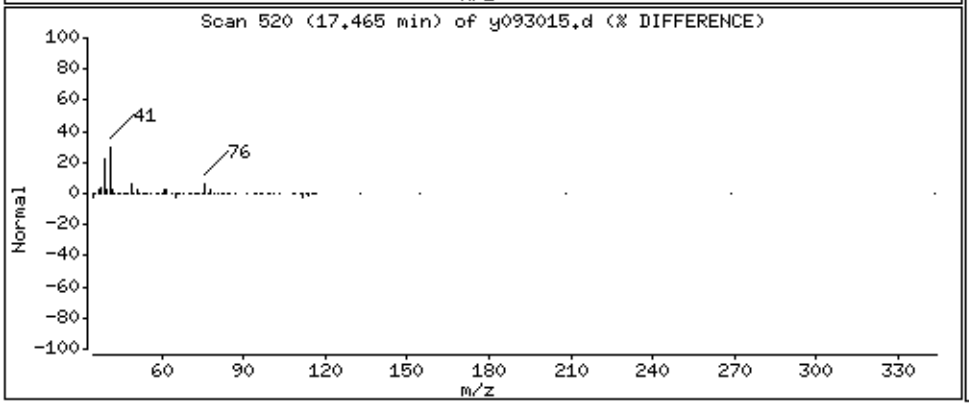












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

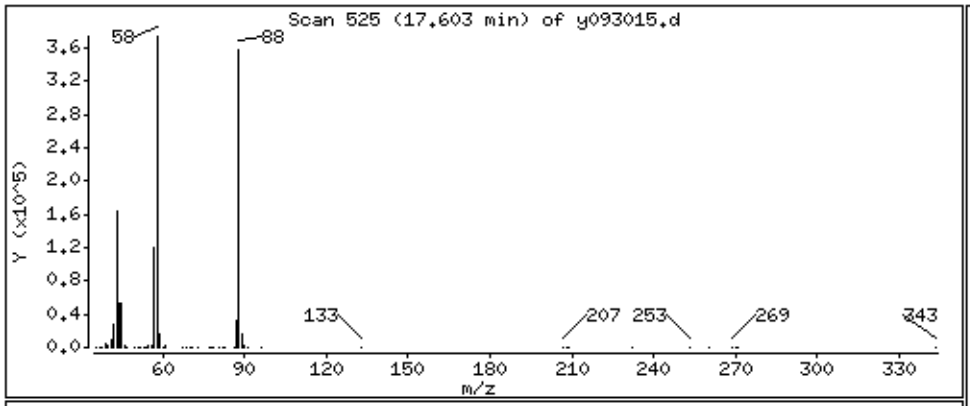
Operator: db

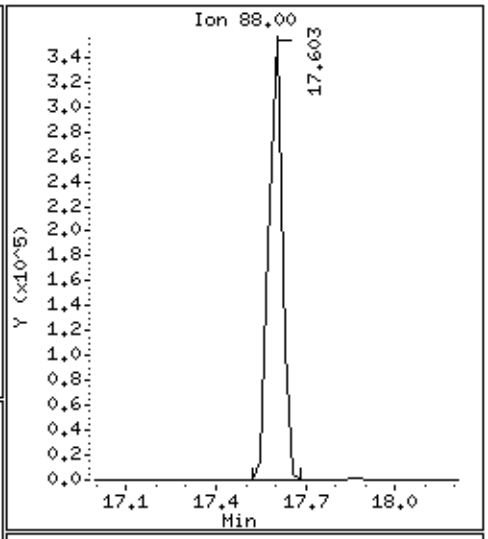
Column phase: RTx-624

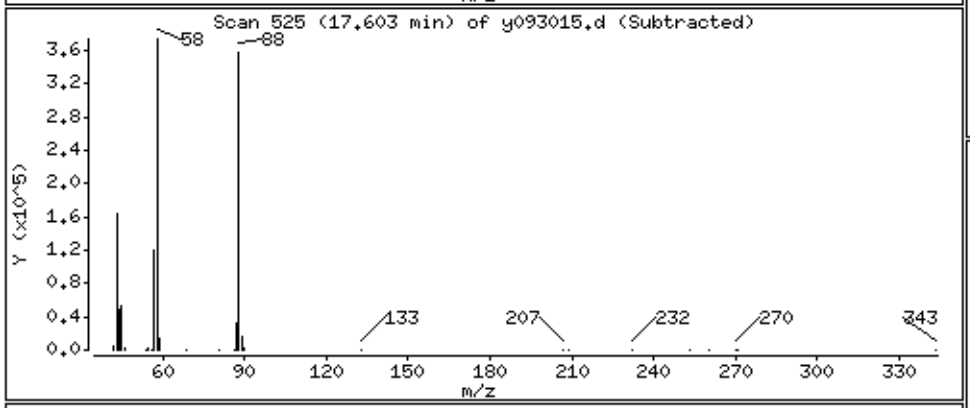
Column diameter: 0.53

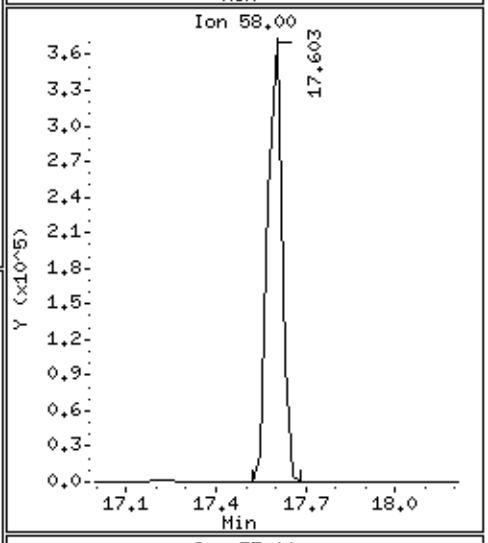
103 1,4-Dioxane

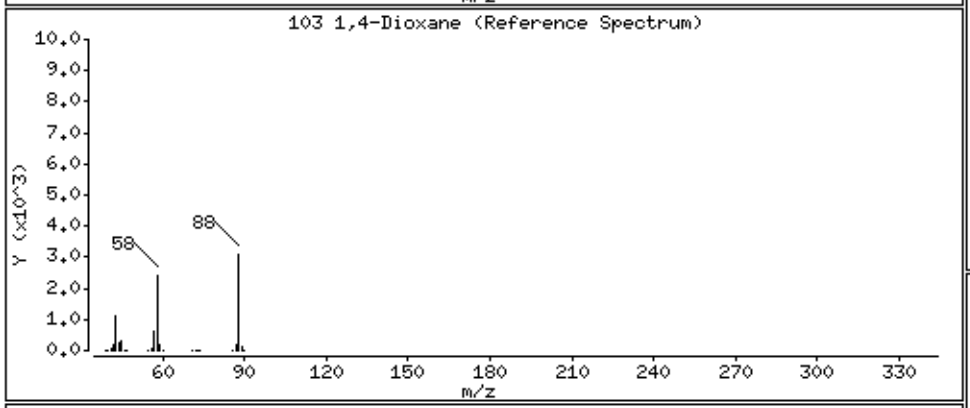
Concentration: 49.886 PPBV

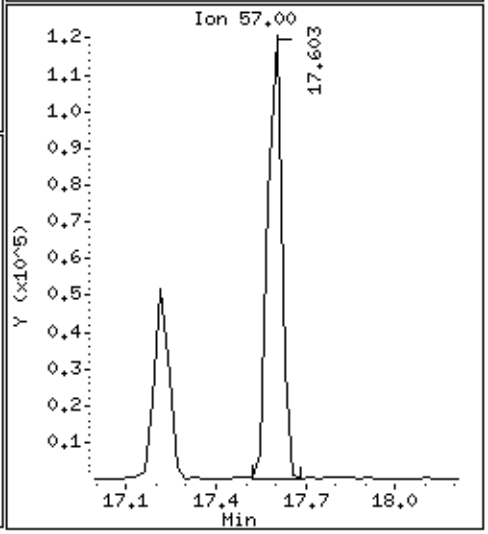


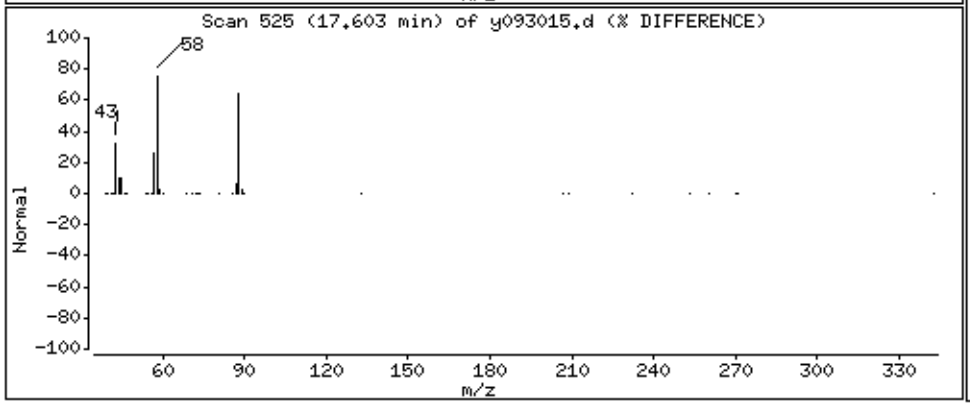












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

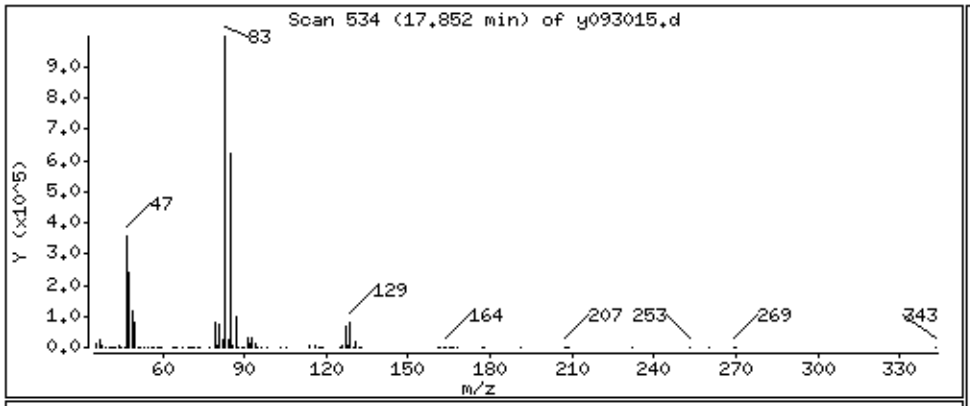
Operator: db

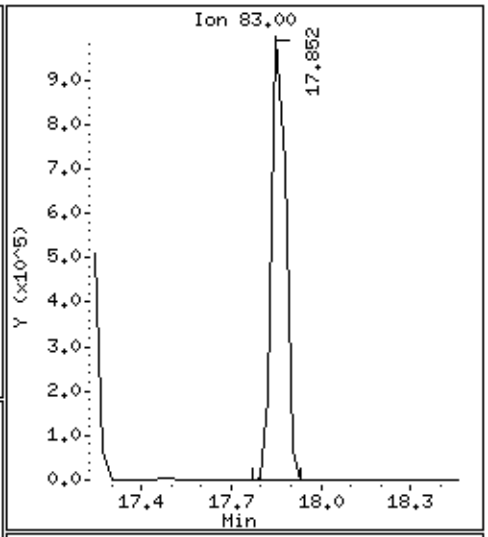
Column phase: RTx-624

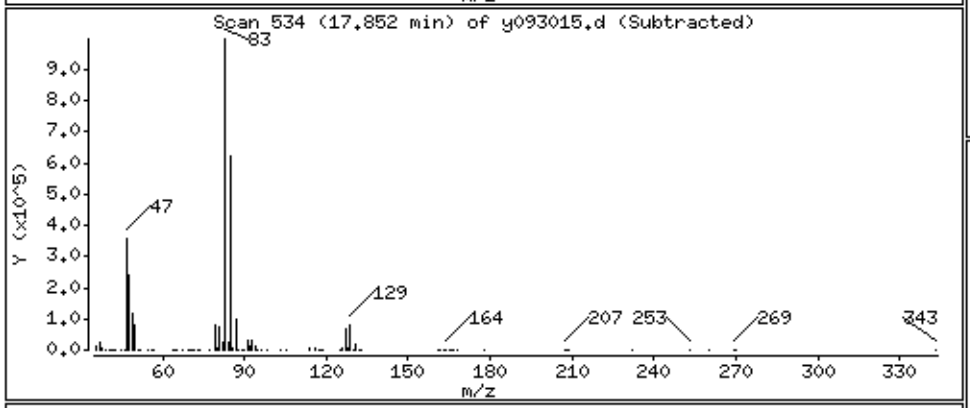
Column diameter: 0.53

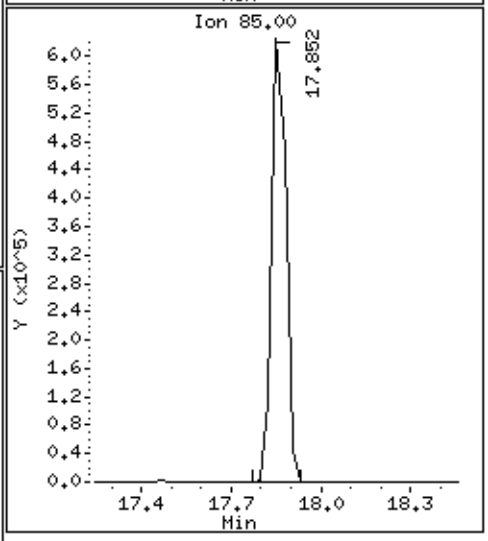
105 Bromodichloromethane

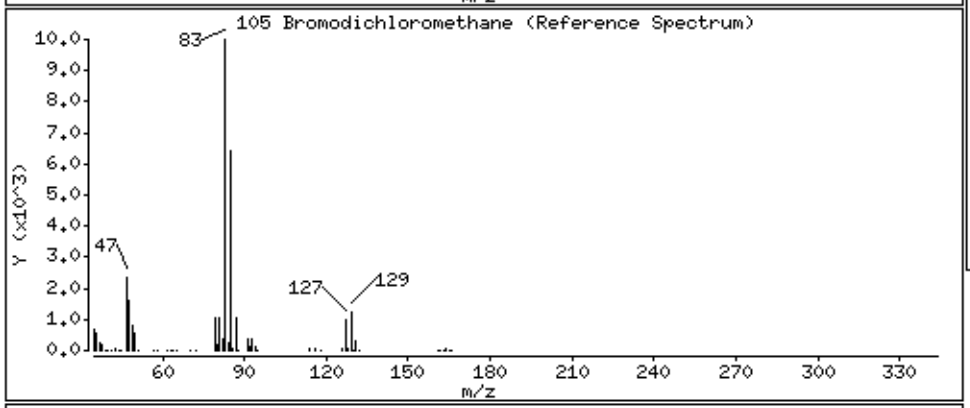
Concentration: 52.977 PPBV

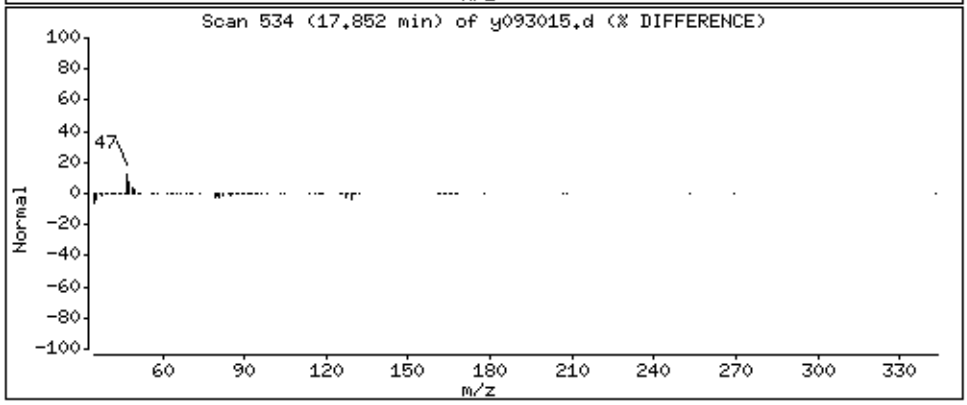












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

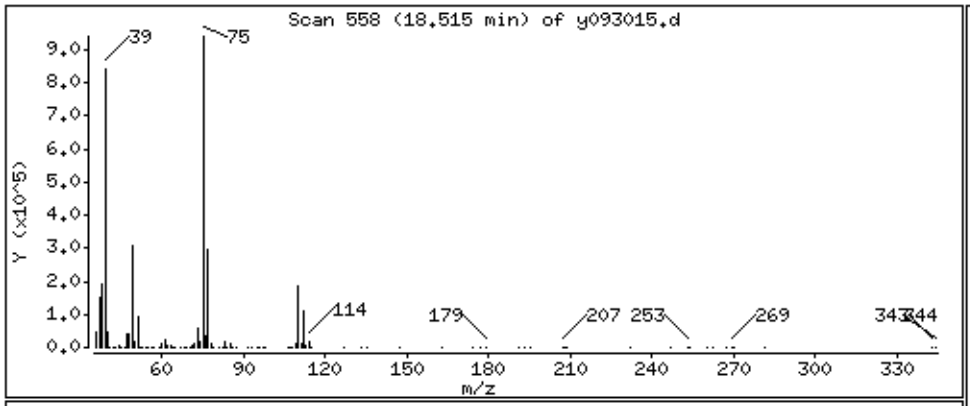
Operator: db

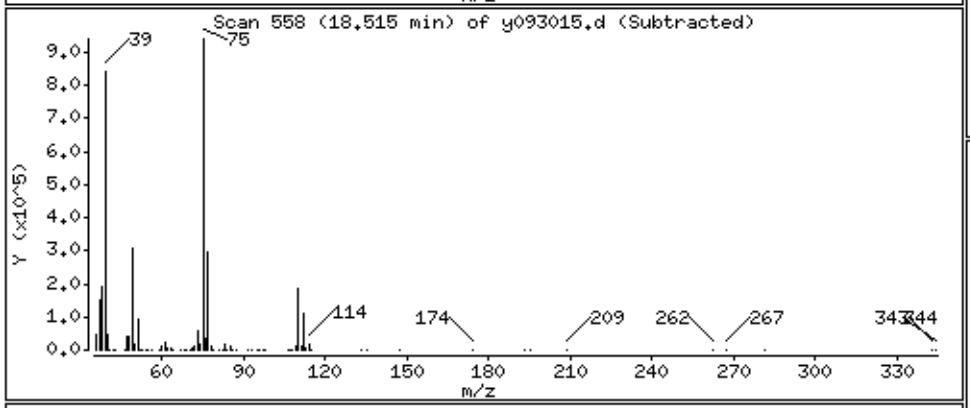
Column phase: RTx-624

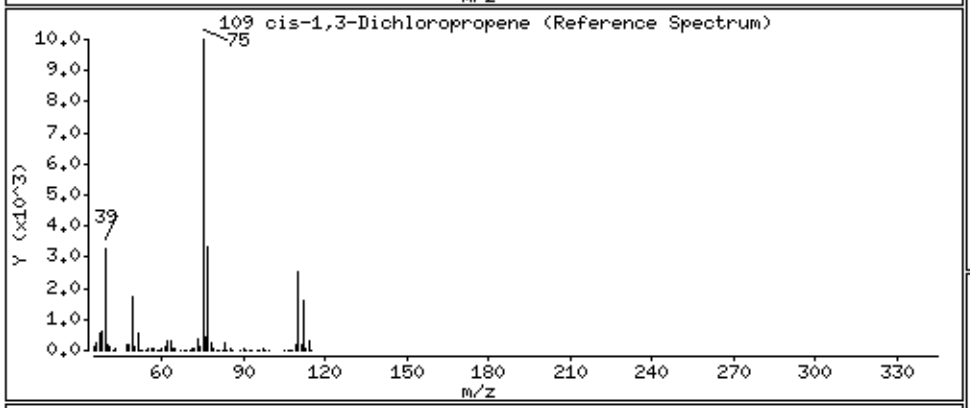
Column diameter: 0.53

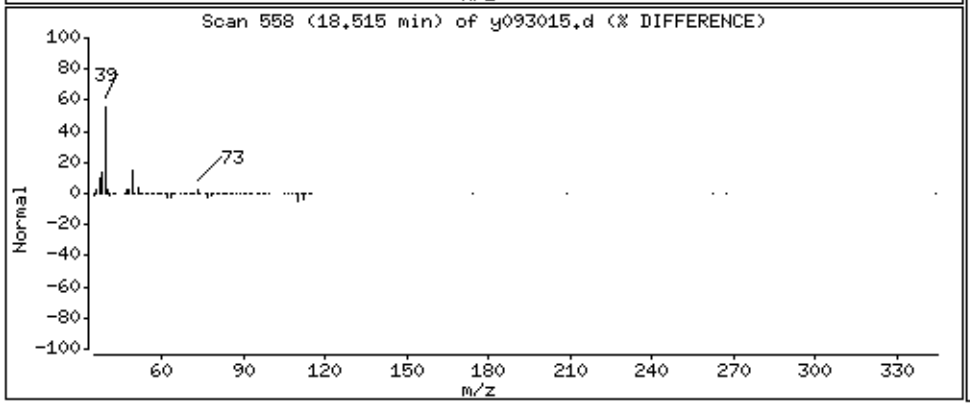
109 cis-1,3-Dichloropropene

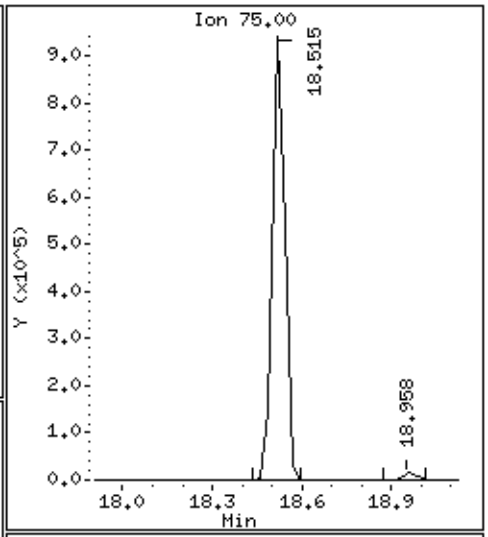
Concentration: 53.025 PPBV

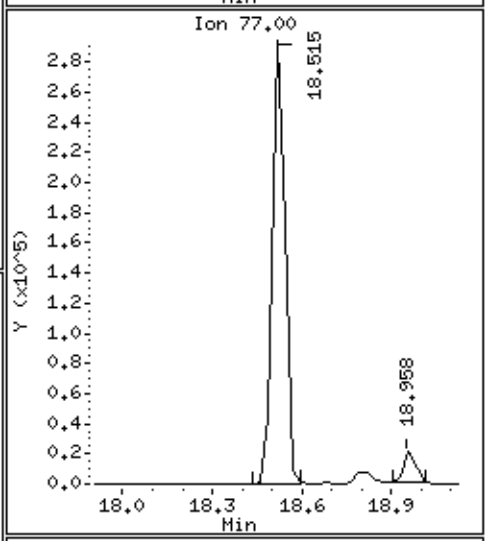


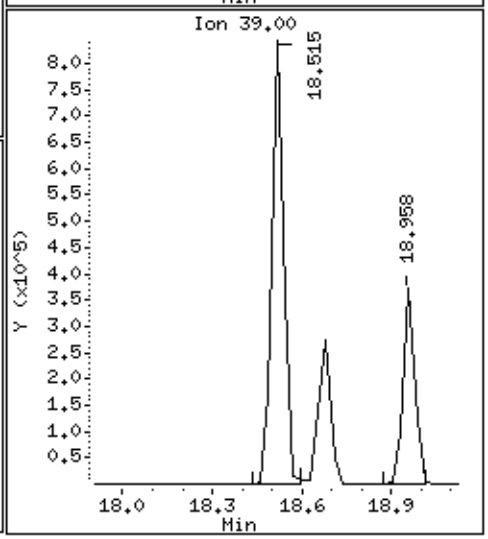












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

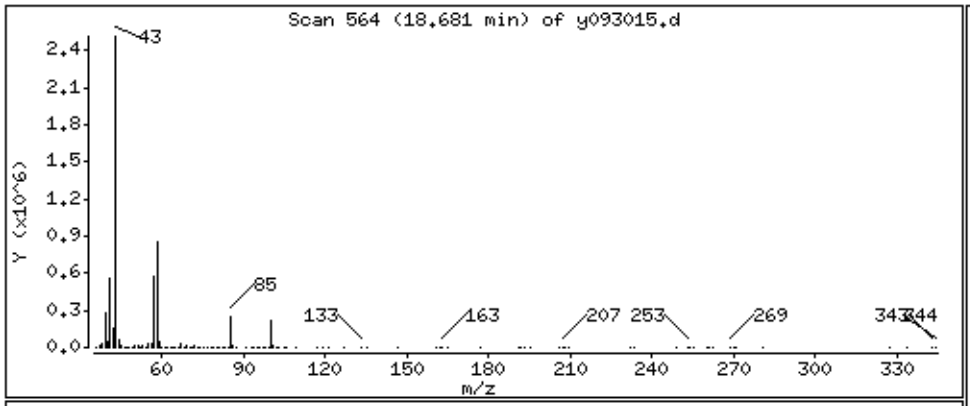
Operator: db

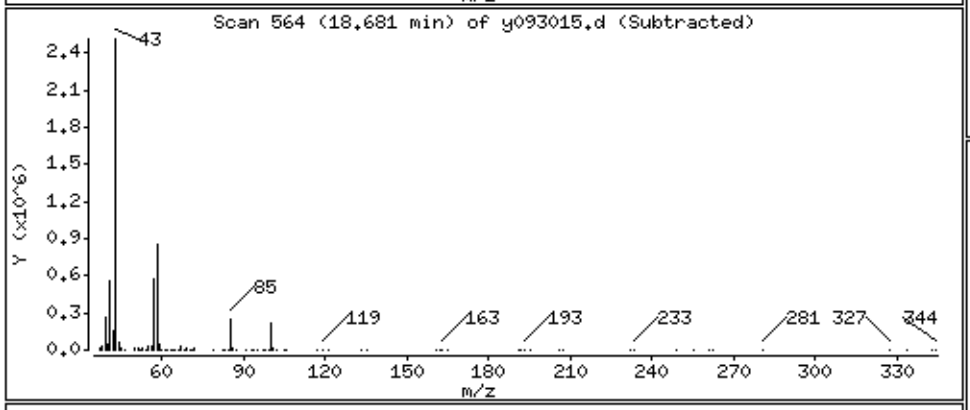
Column phase: RTx-624

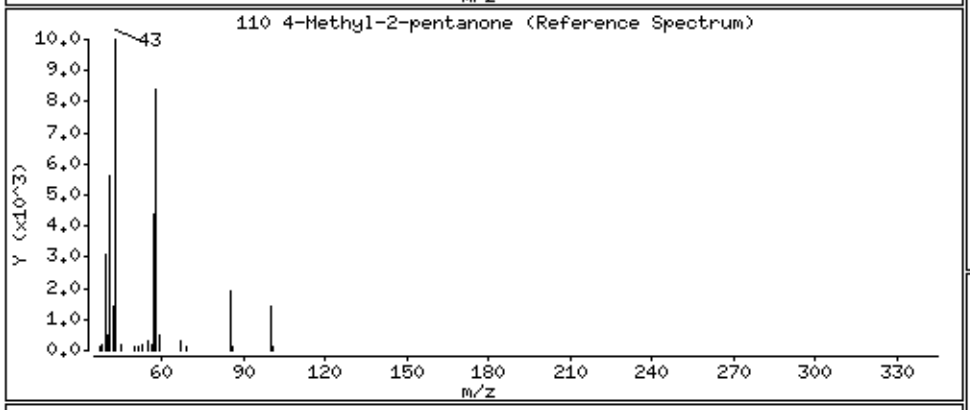
Column diameter: 0.53

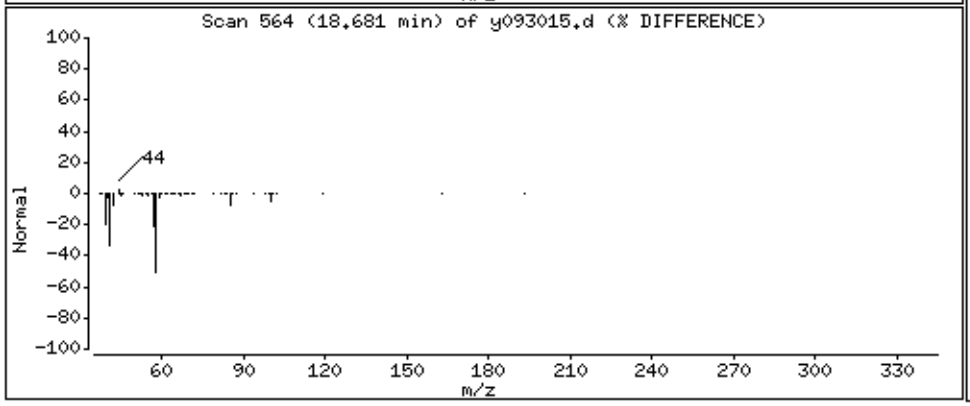
110 4-Methyl-2-pentanone

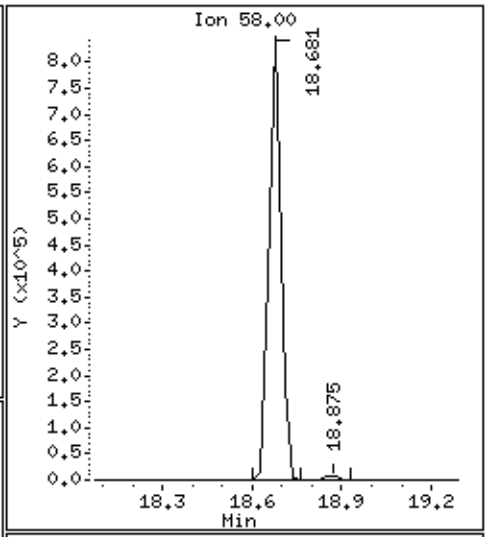
Concentration: 50.861 PPBV

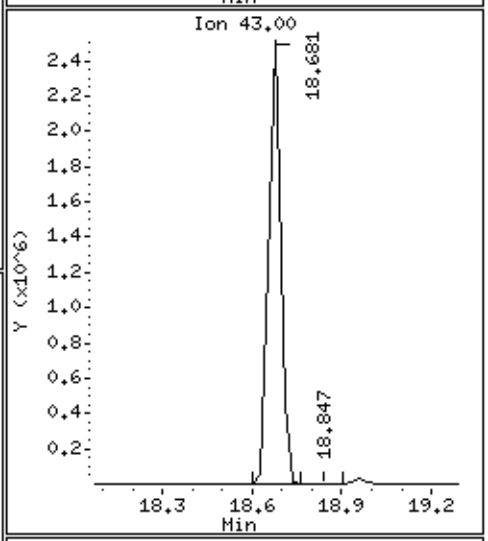


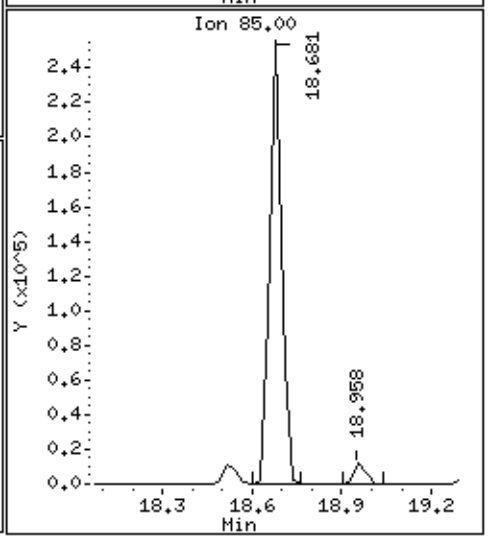












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

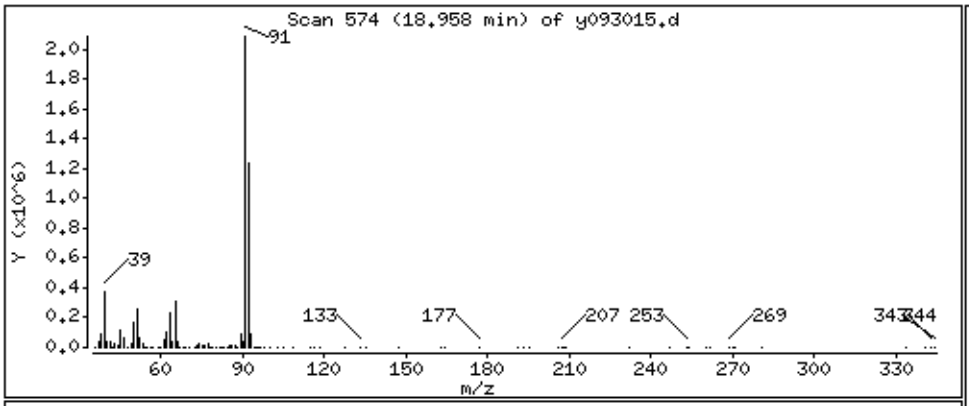
Operator: db

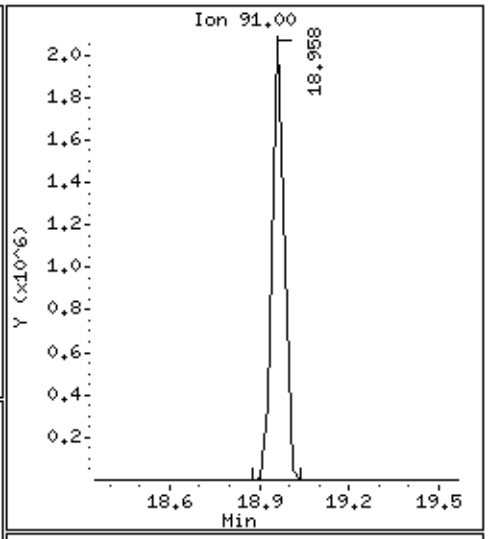
Column phase: RTx-624

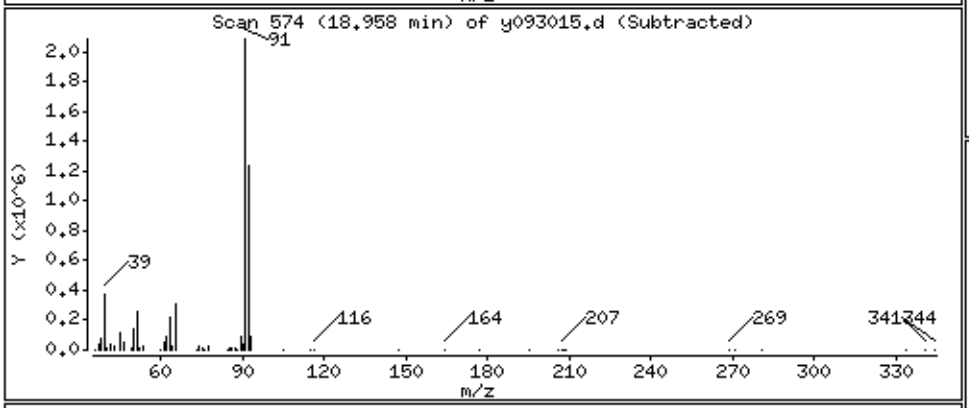
Column diameter: 0.53

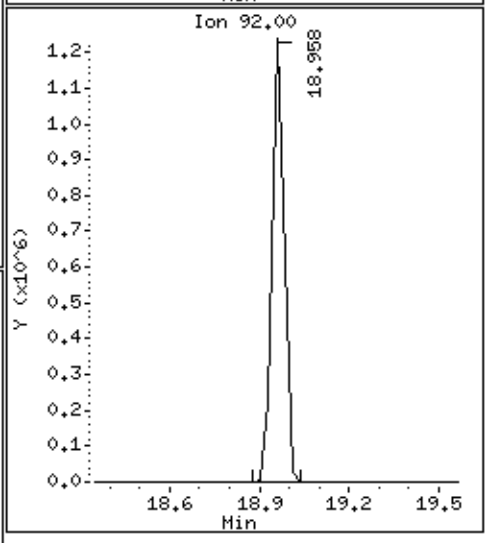
112 Toluene

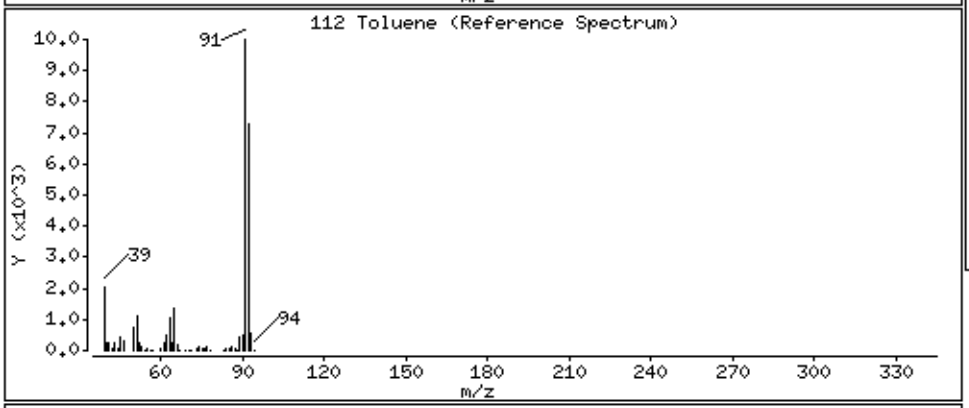
Concentration: 54.707 PPBV

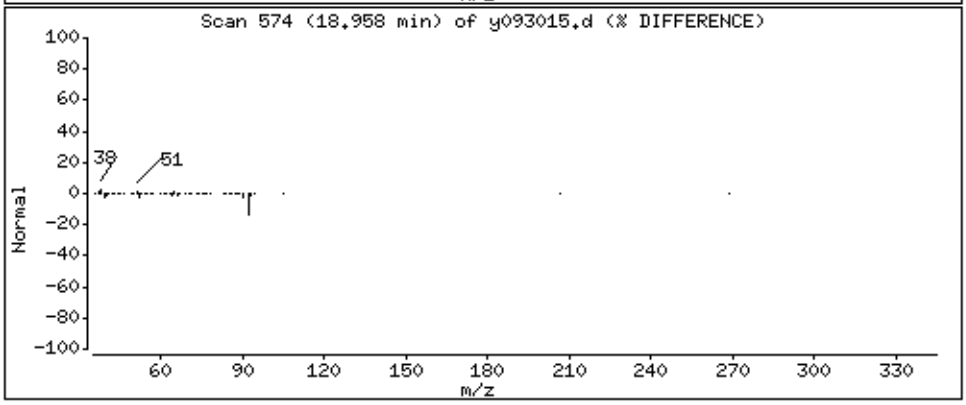












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

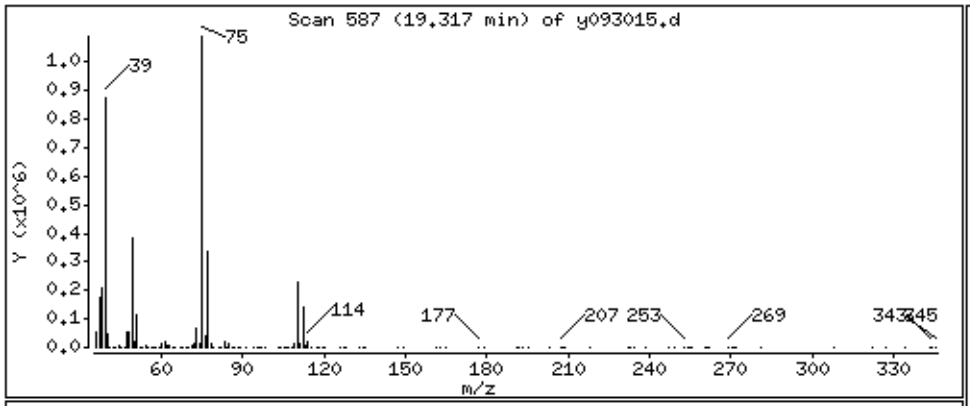
Operator: db

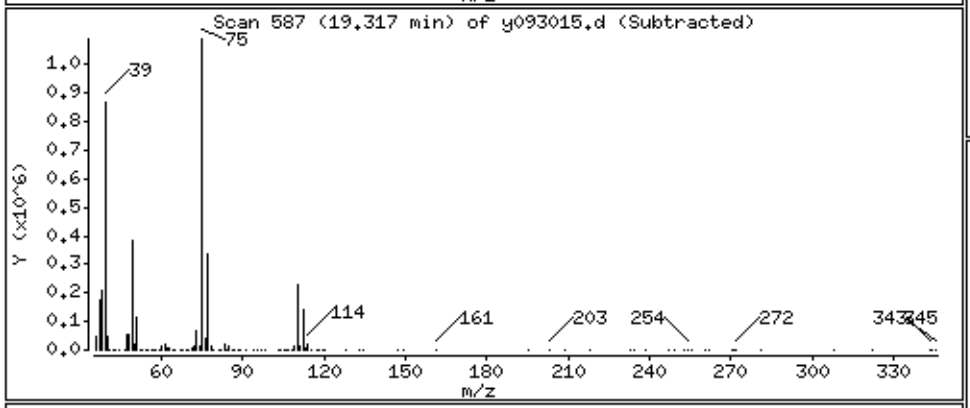
Column phase: RTx-624

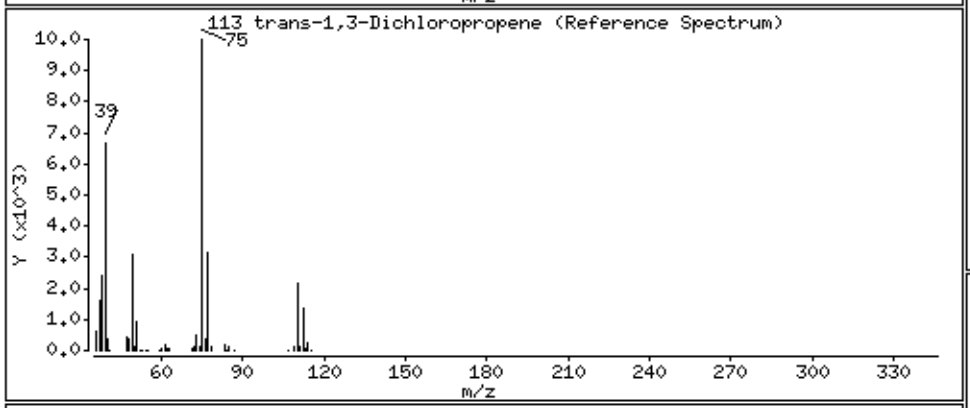
Column diameter: 0.53

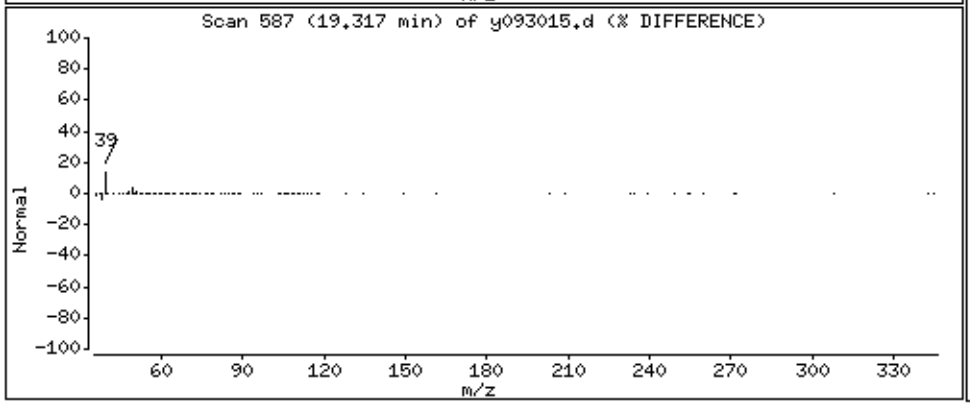
113 trans-1,3-Dichloropropene

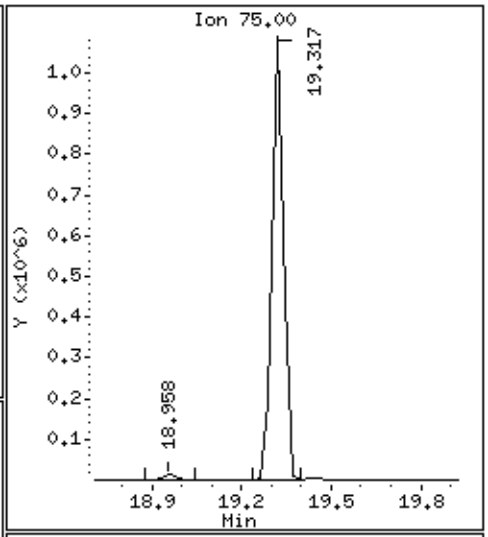
Concentration: 54.504 PPBV

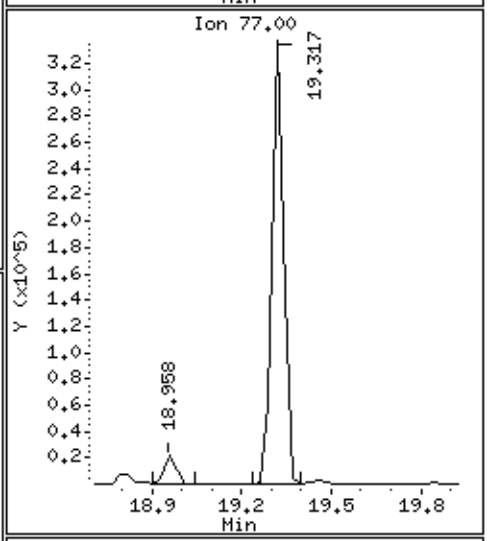


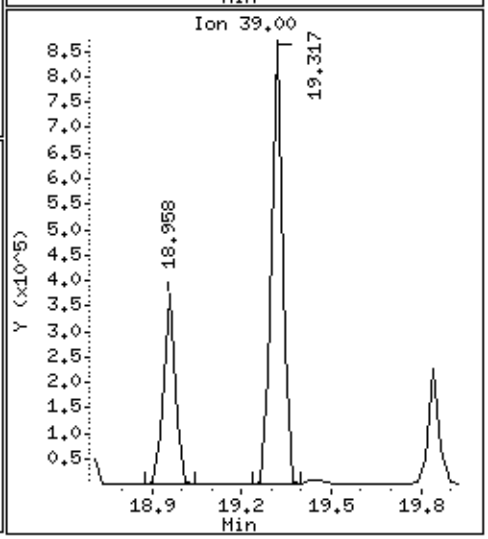












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

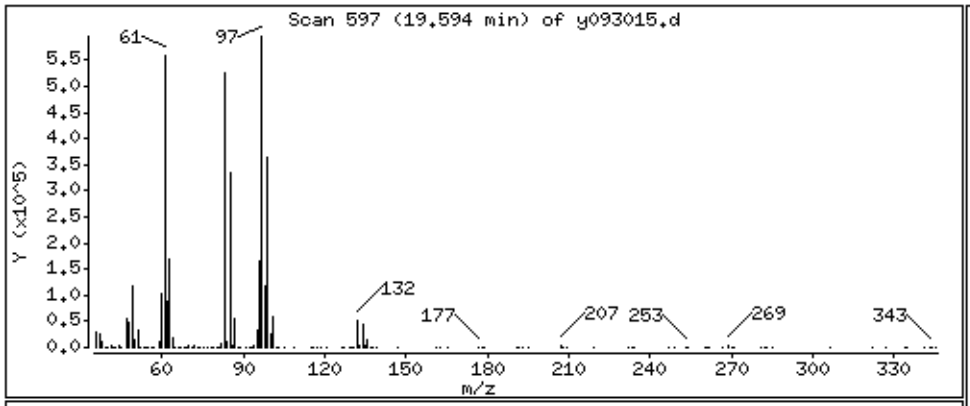
Operator: db

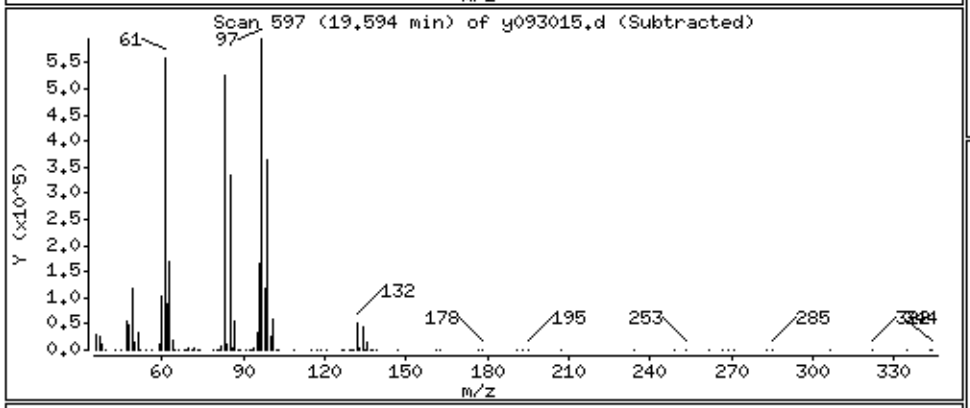
Column phase: RTx-624

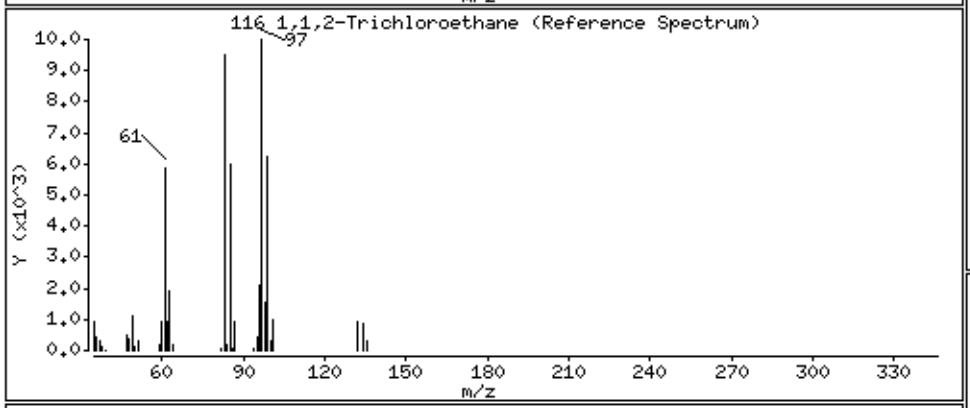
Column diameter: 0.53

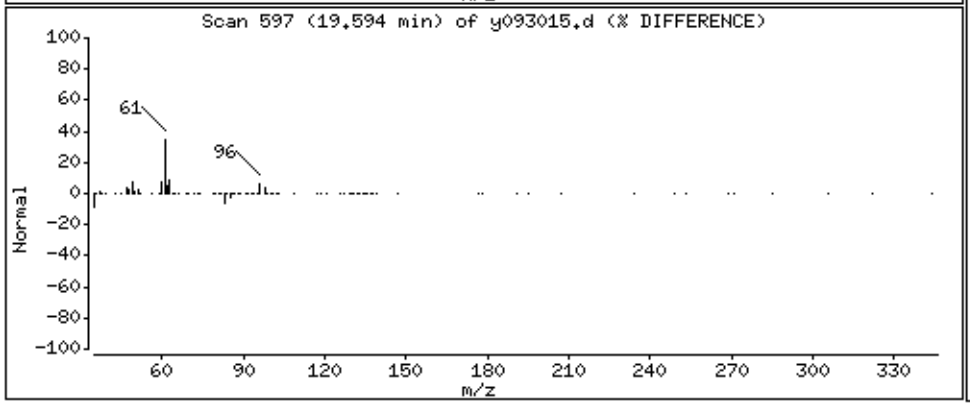
116 1,1,2-Trichloroethane

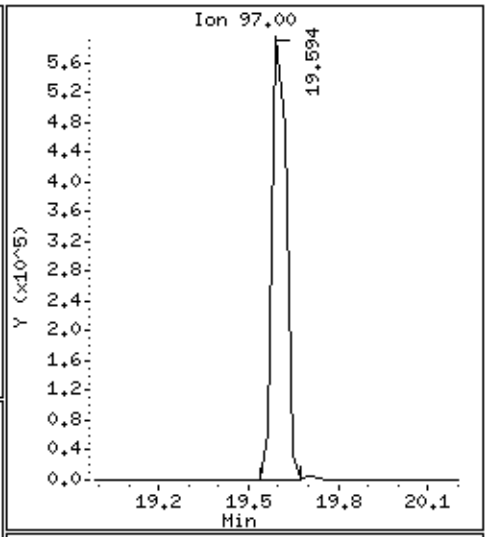
Concentration: 50.993 PPBV

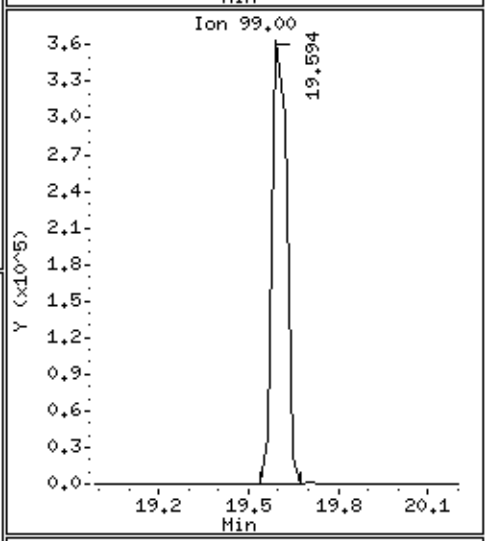


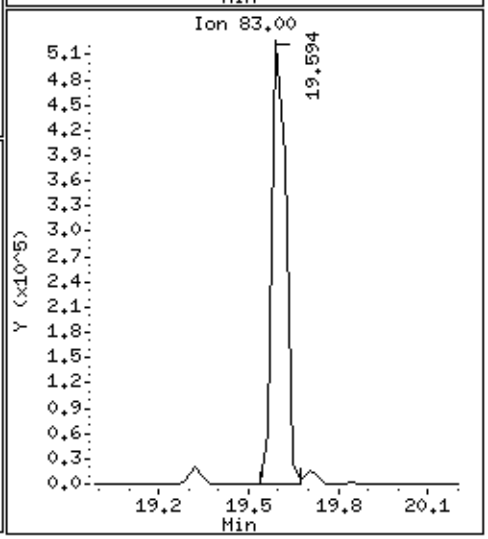












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

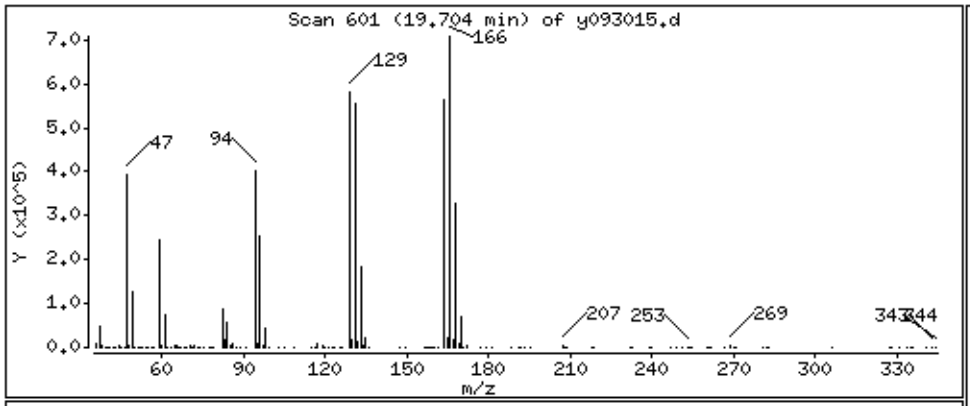
Operator: db

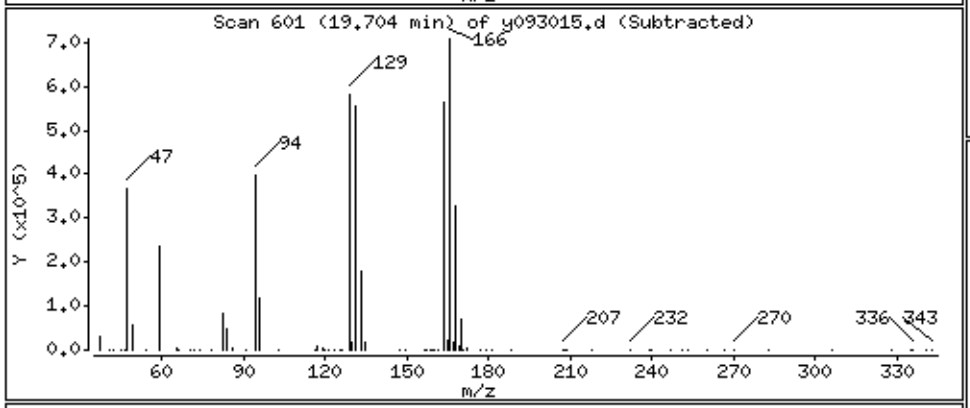
Column phase: RTx-624

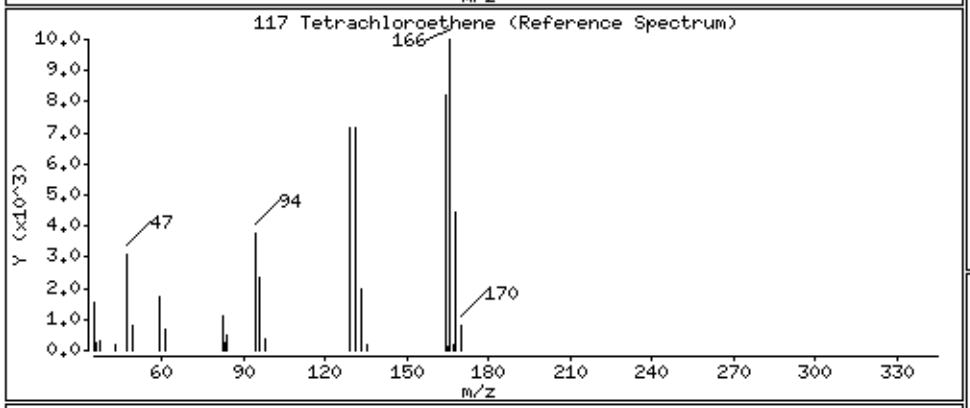
Column diameter: 0.53

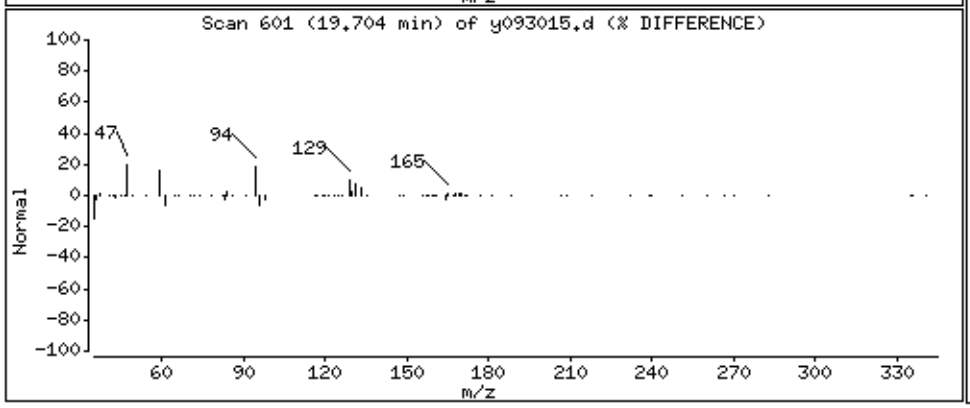
117 Tetrachloroethene

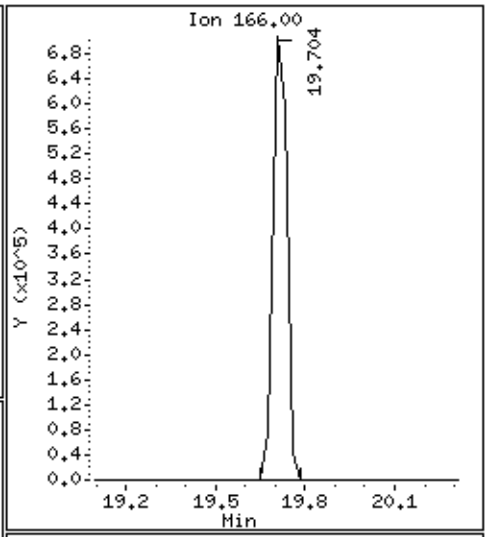
Concentration: 50.705 PPBV

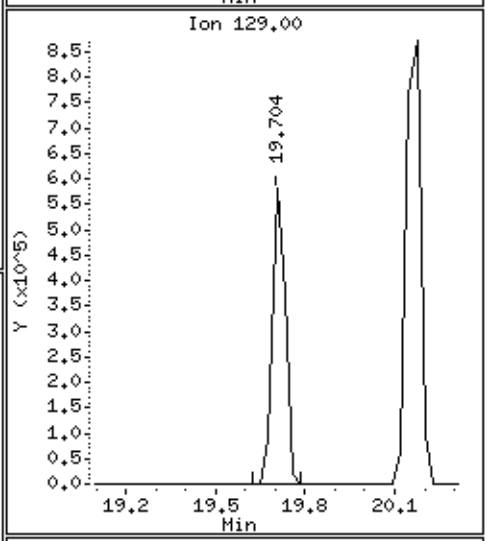


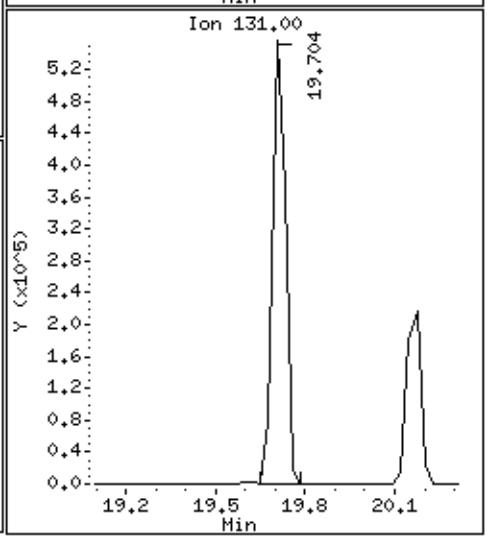












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

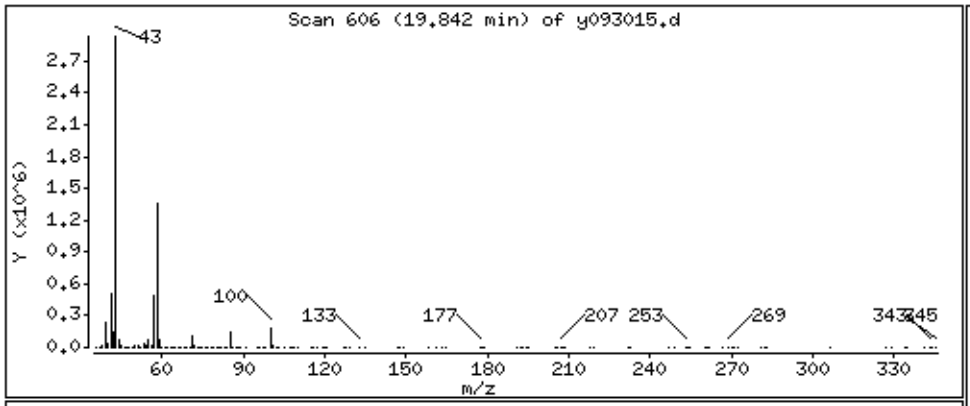
Operator: db

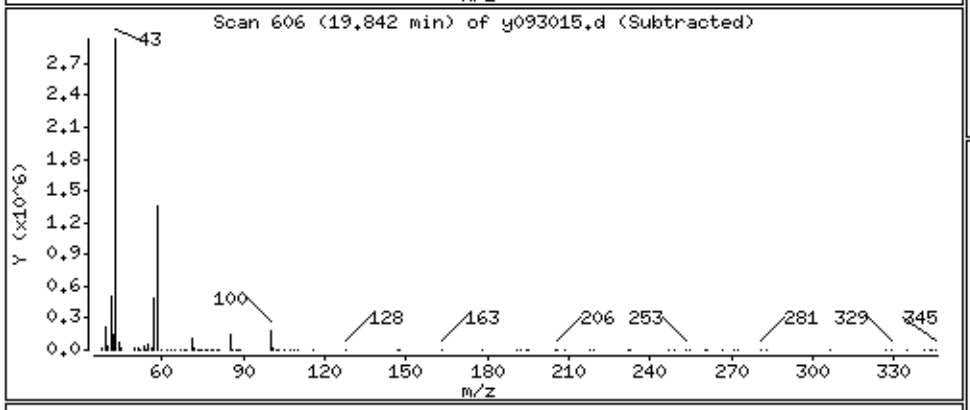
Column phase: RTx-624

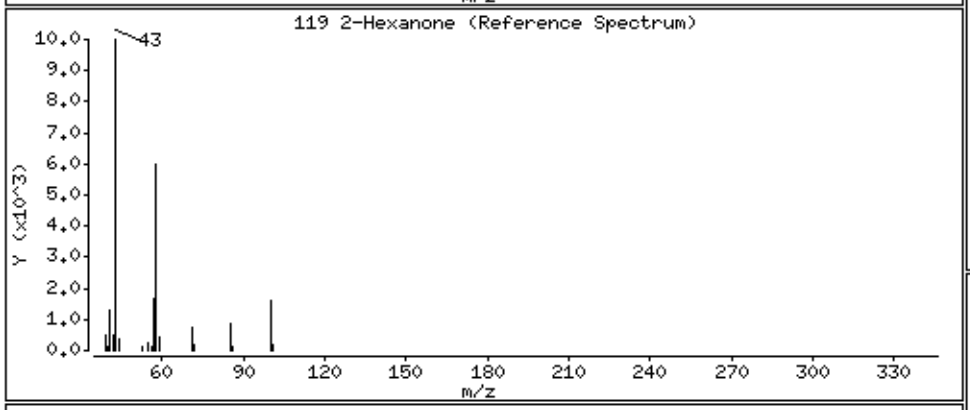
Column diameter: 0.53

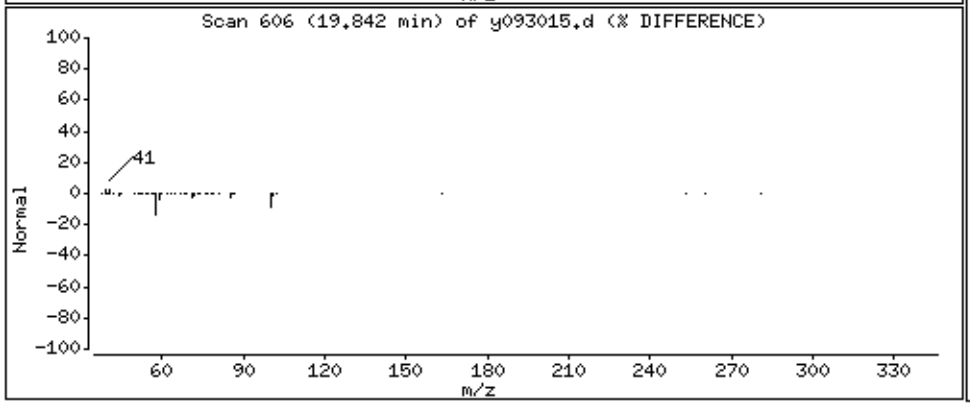
119 2-Hexanone

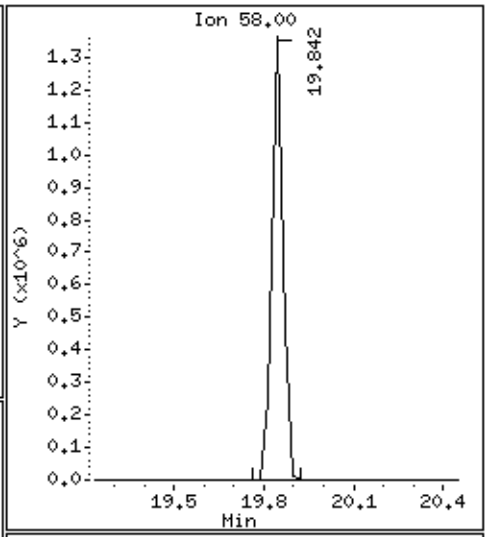
Concentration: 48.642 PPBV

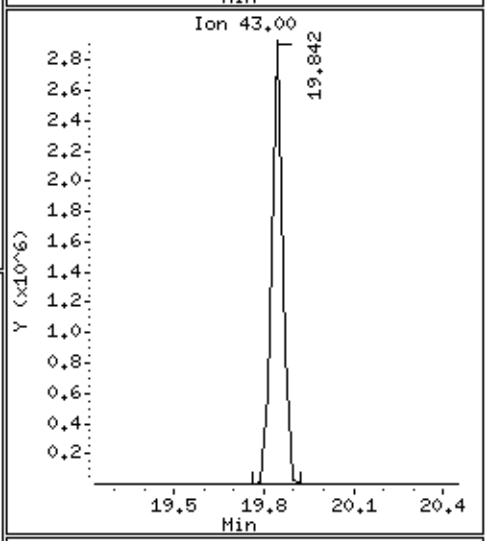


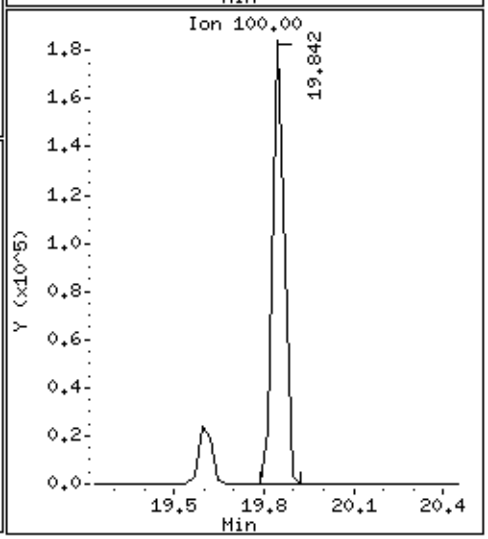












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

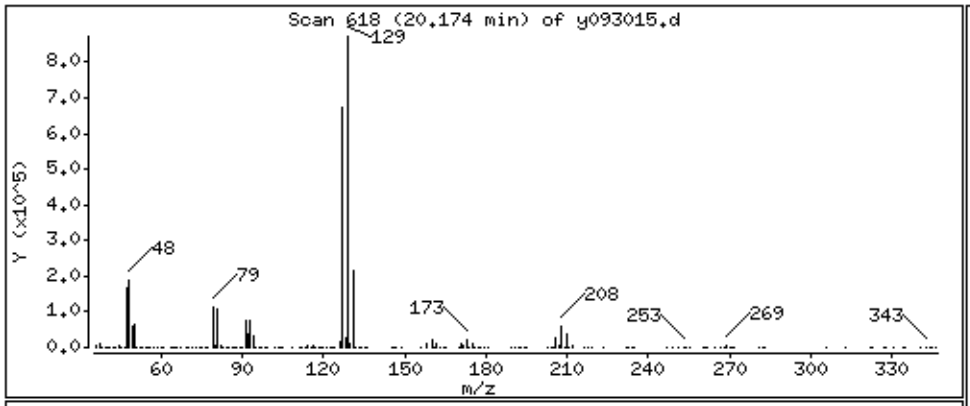
Operator: db

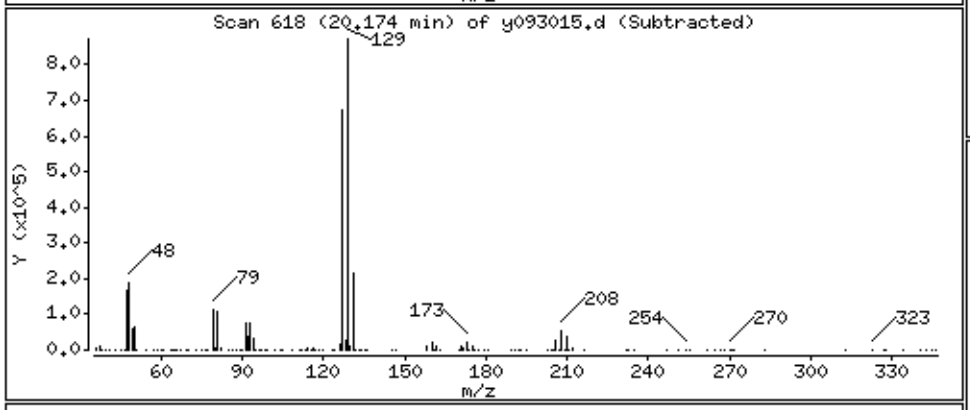
Column phase: RTx-624

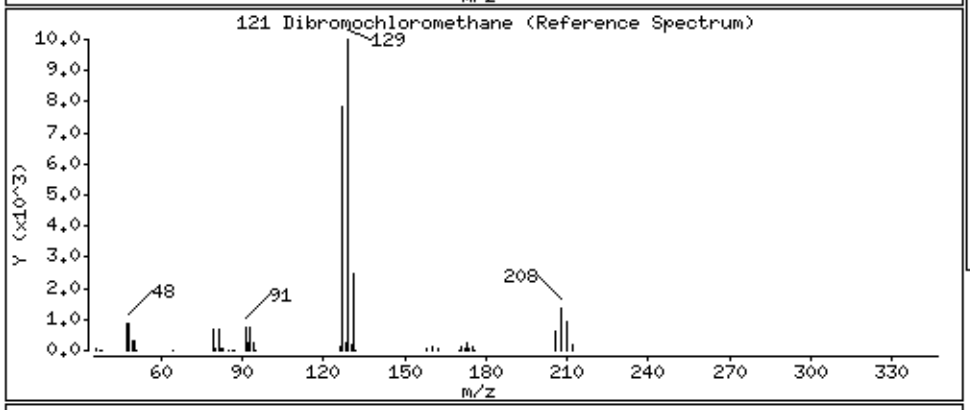
Column diameter: 0.53

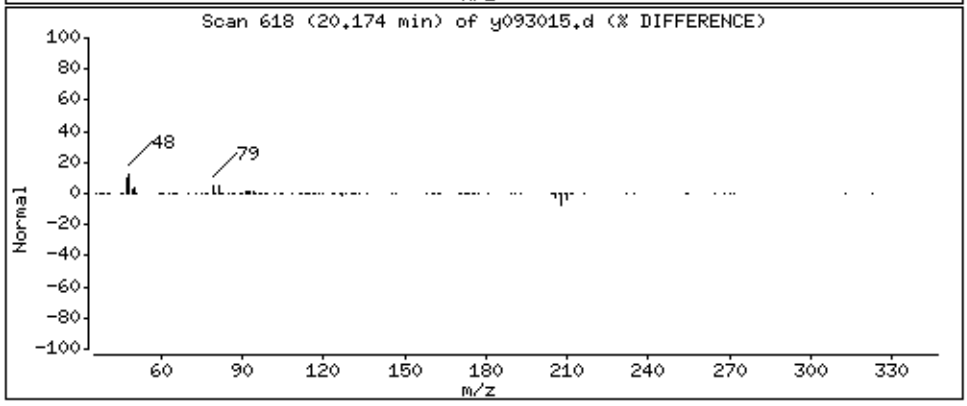
121 Dibromochloromethane

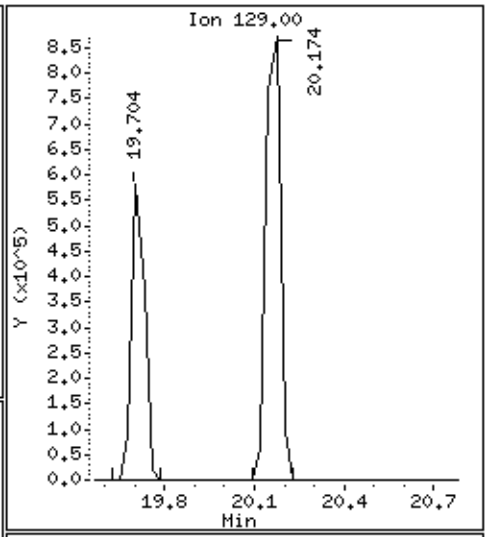
Concentration: 51.182 PPBV

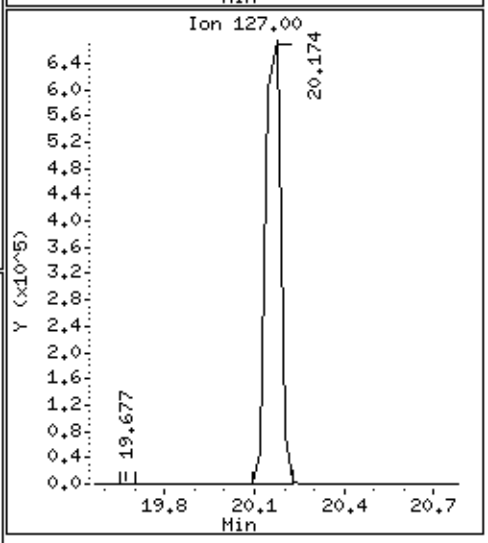












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

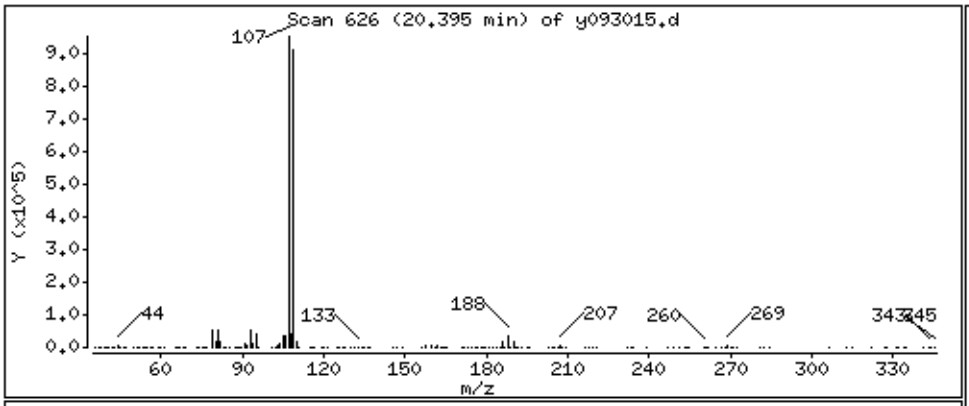
Operator: db

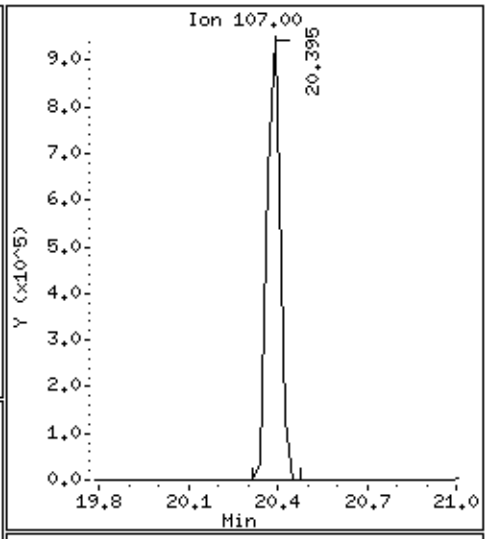
Column phase: RTx-624

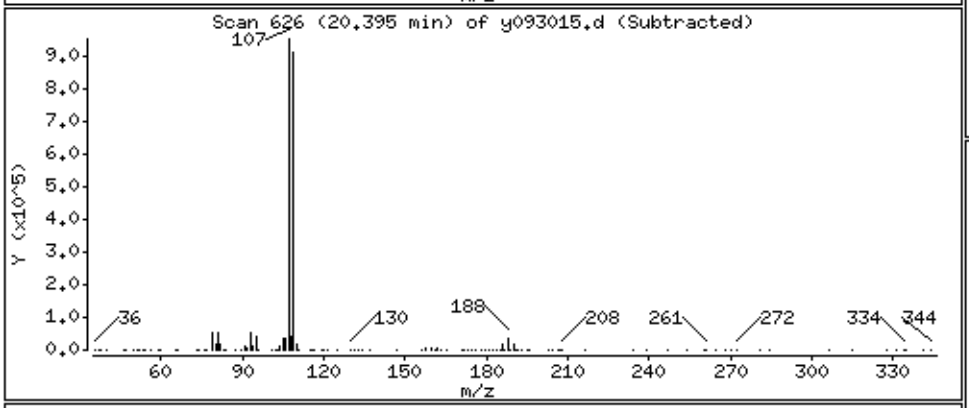
Column diameter: 0.53

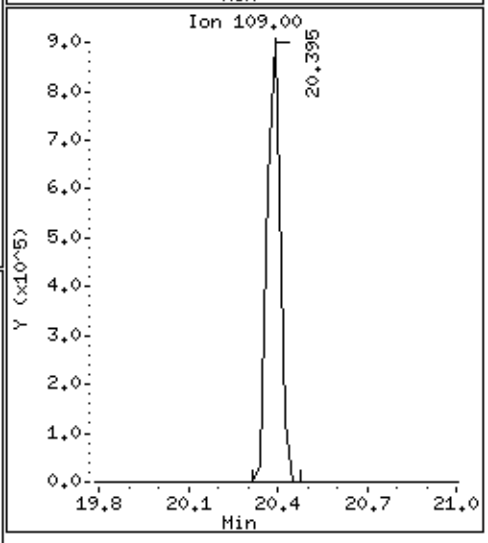
122 1,2-Dibromoethane

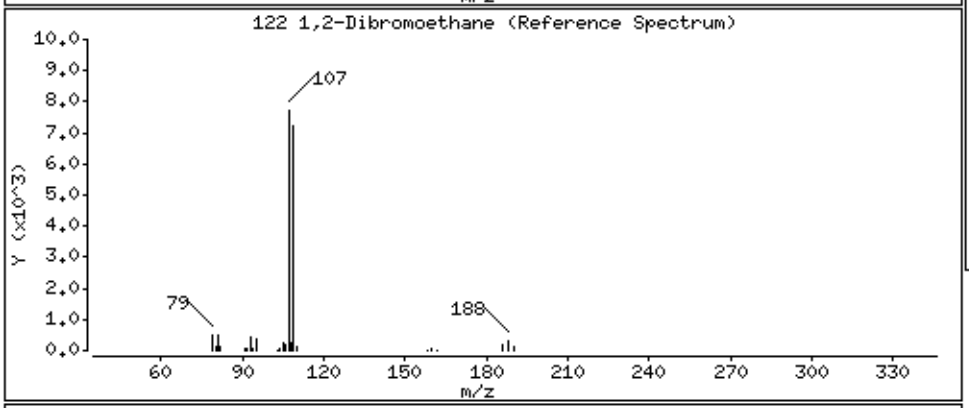
Concentration: 48.178 PPBV

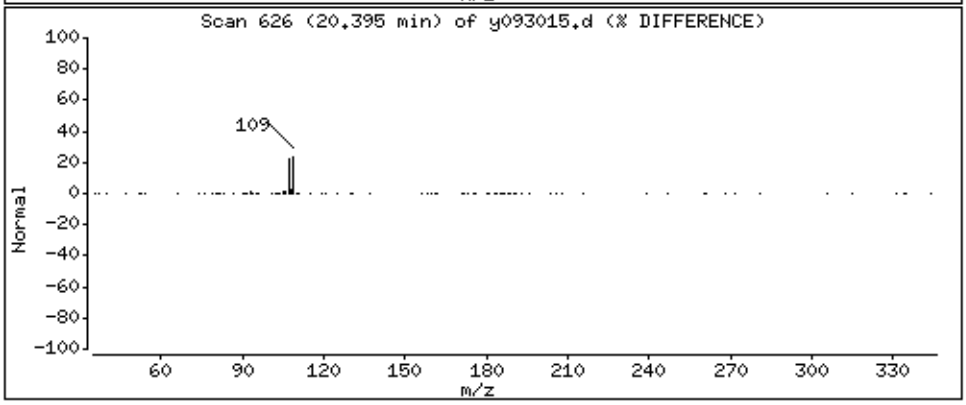












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

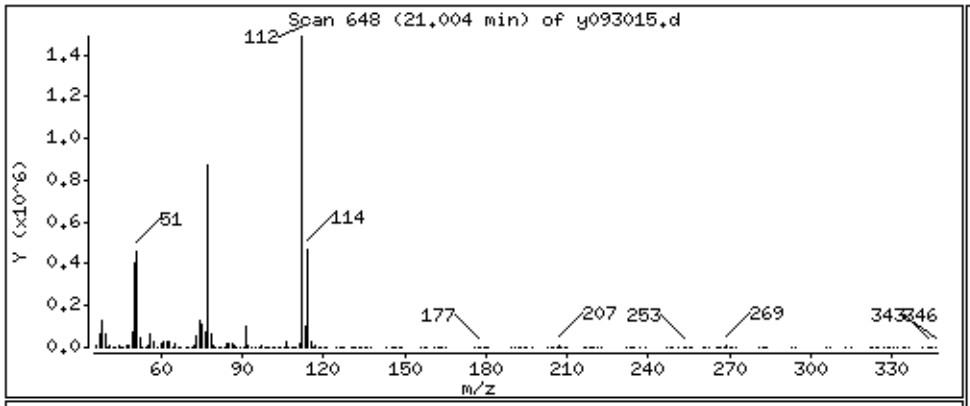
Operator: db

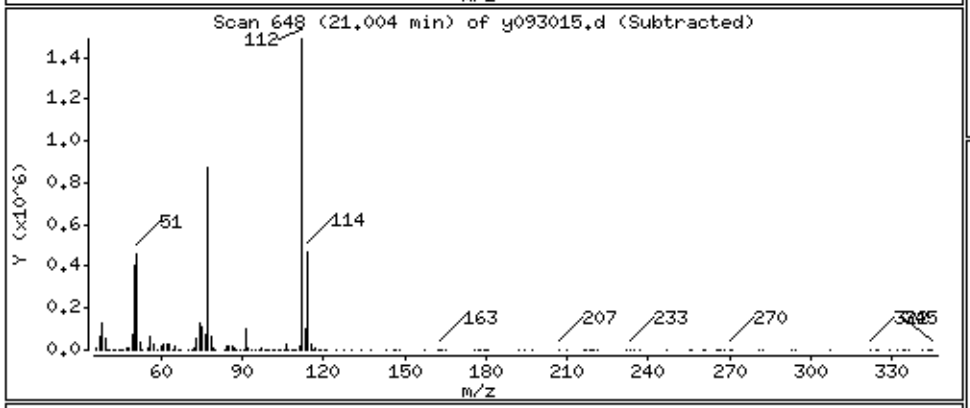
Column phase: RTx-624

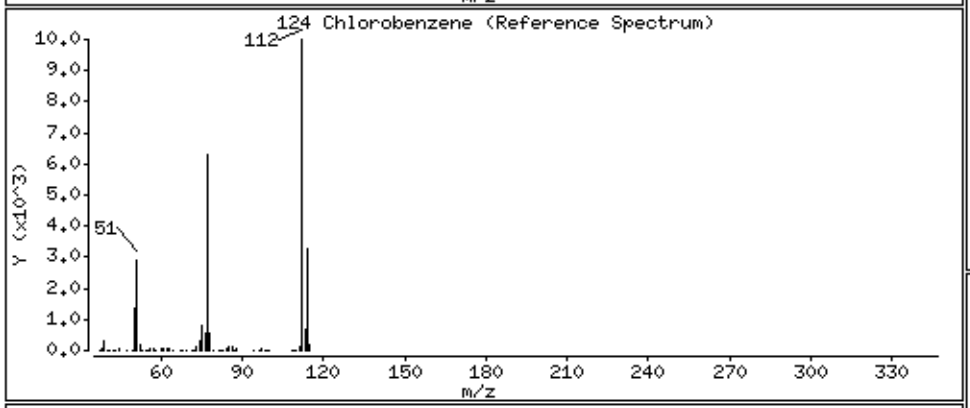
Column diameter: 0.53

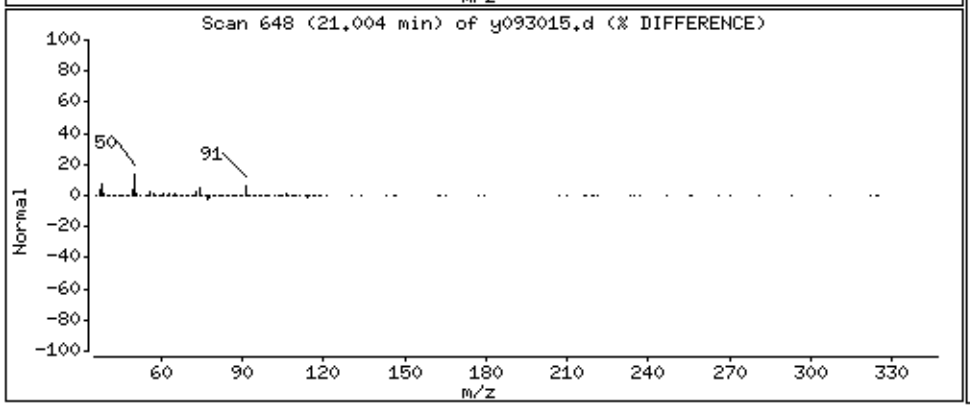
124 Chlorobenzene

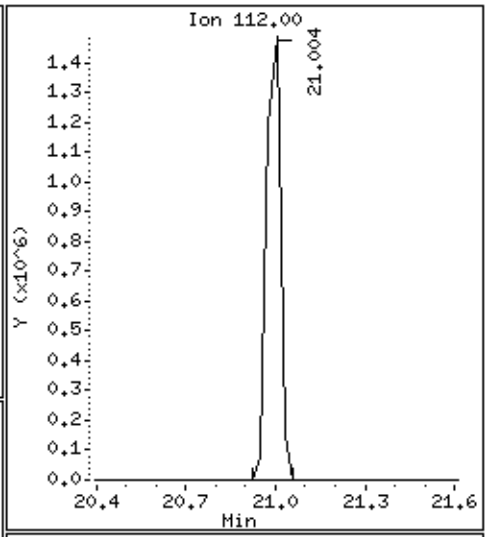
Concentration: 49.445 PPBV

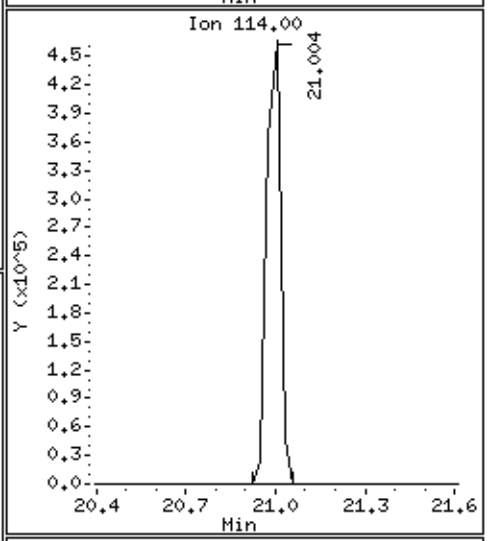


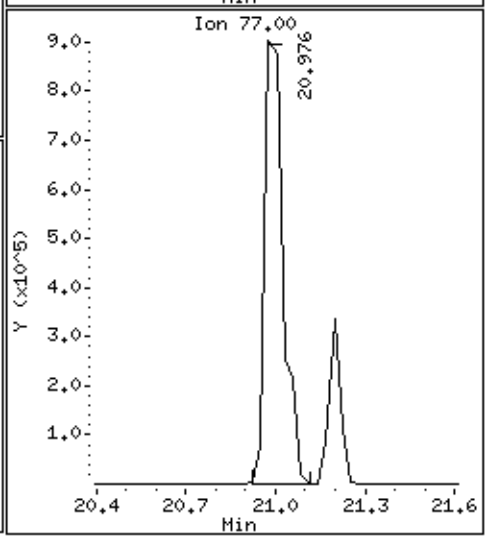












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

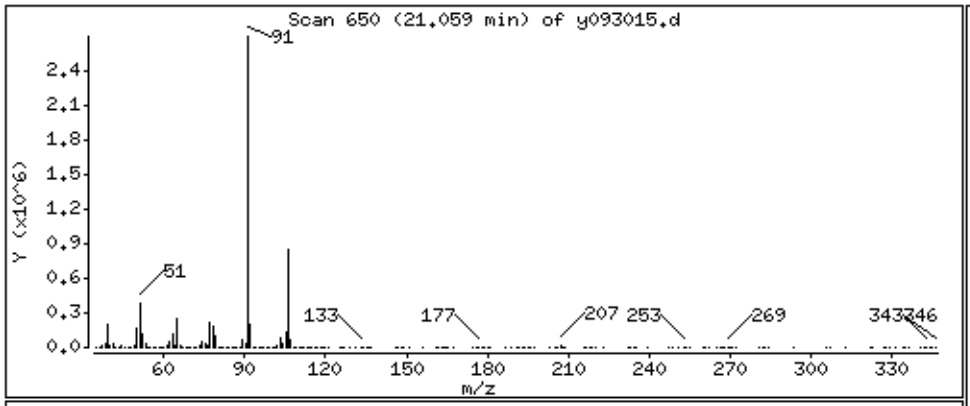
Operator: db

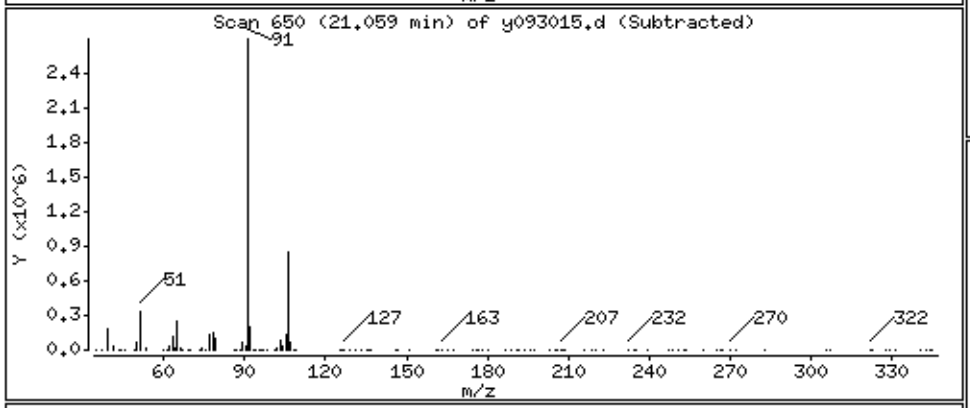
Column phase: RTx-624

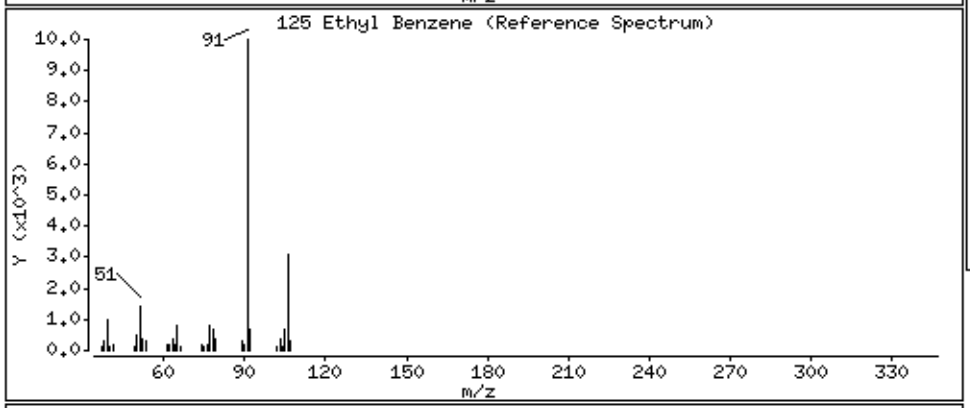
Column diameter: 0.53

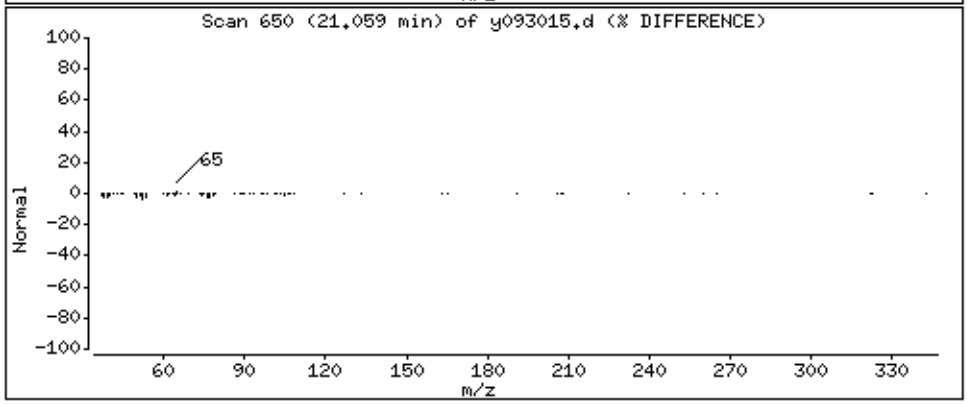
125 Ethyl Benzene

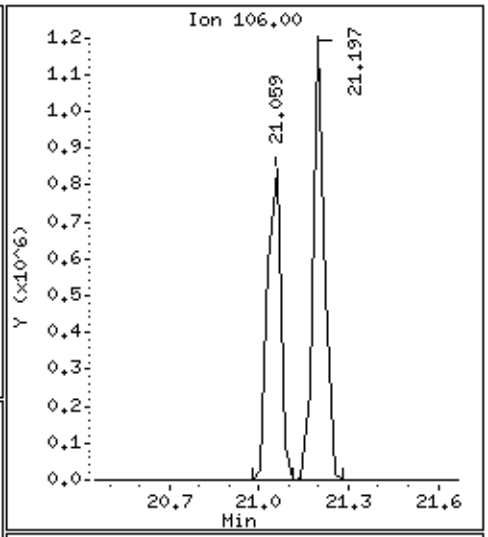
Concentration: 49.668 PPBV

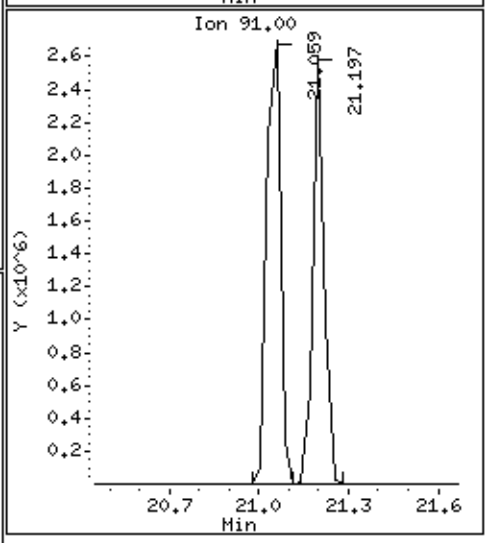












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

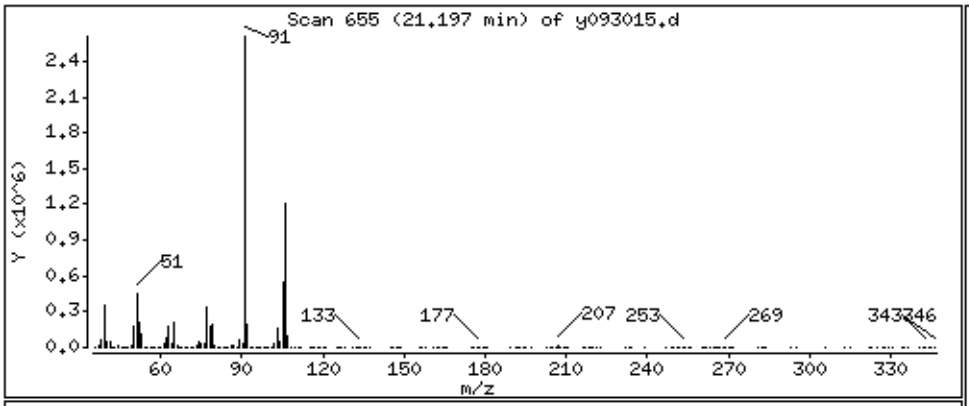
Operator: db

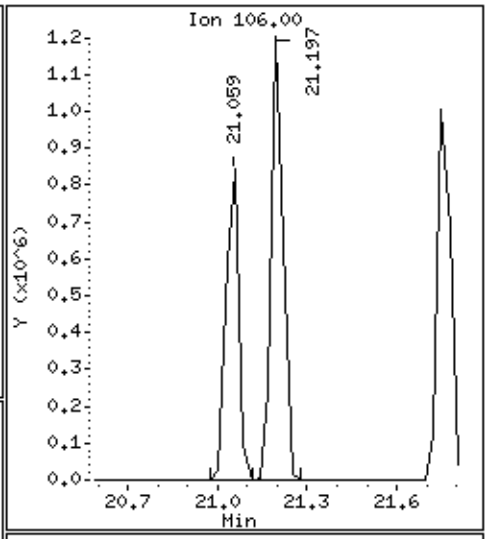
Column phase: RTx-624

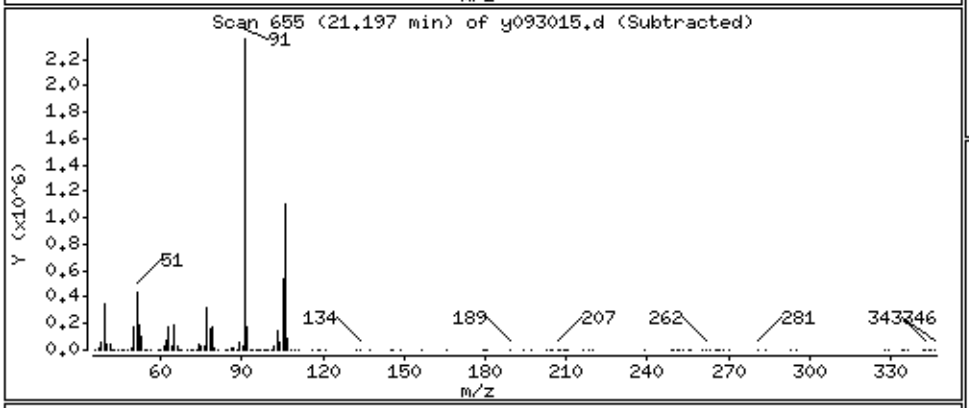
Column diameter: 0.53

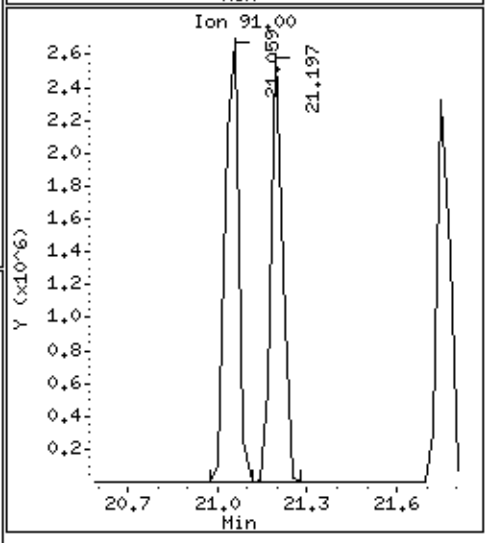
128 m,p-Xylene

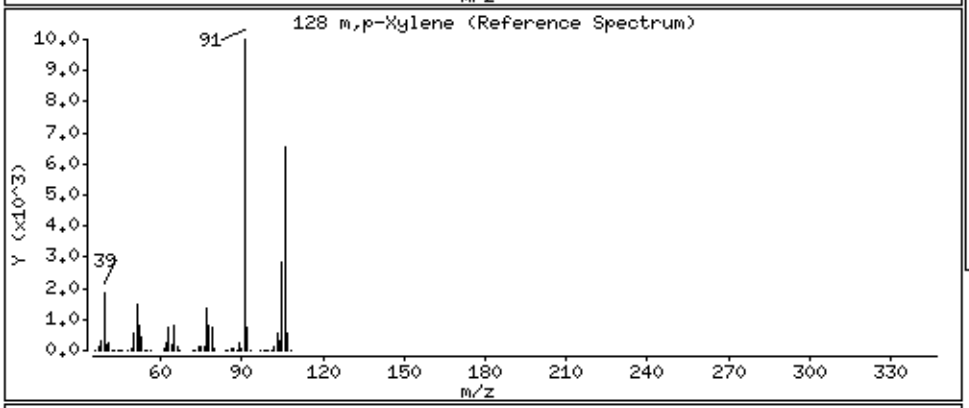
Concentration: 49.988 PPBV

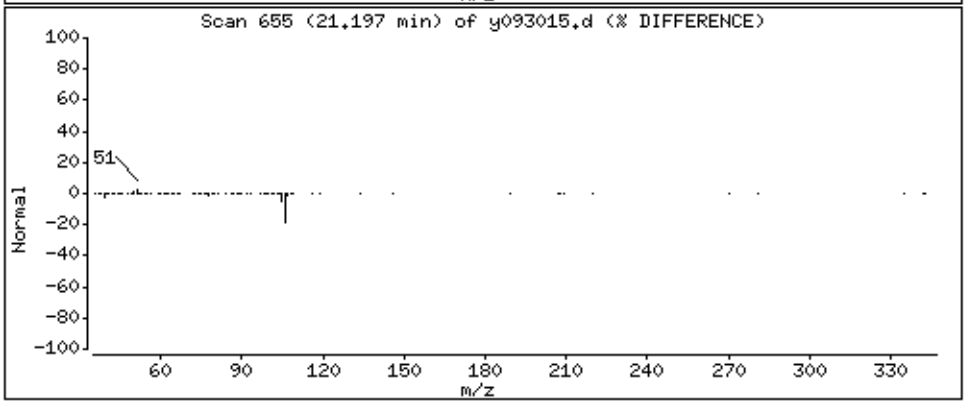












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

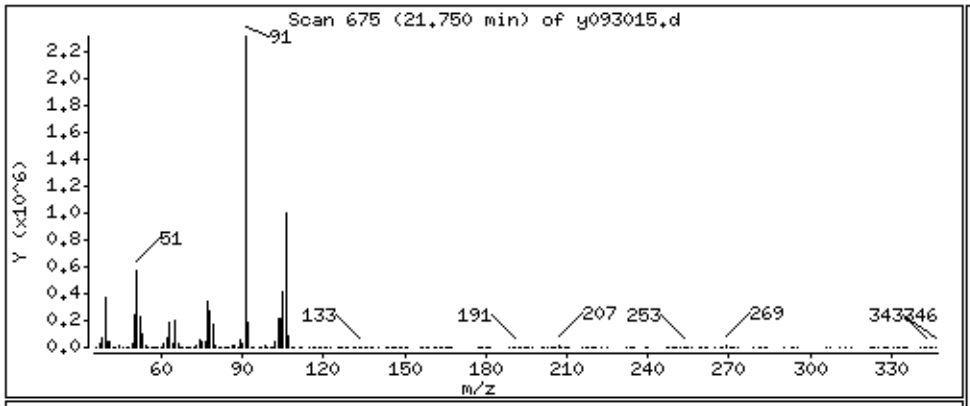
Operator: db

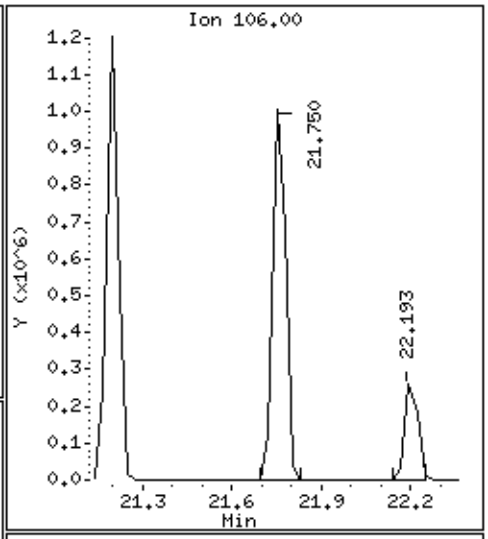
Column phase: RTx-624

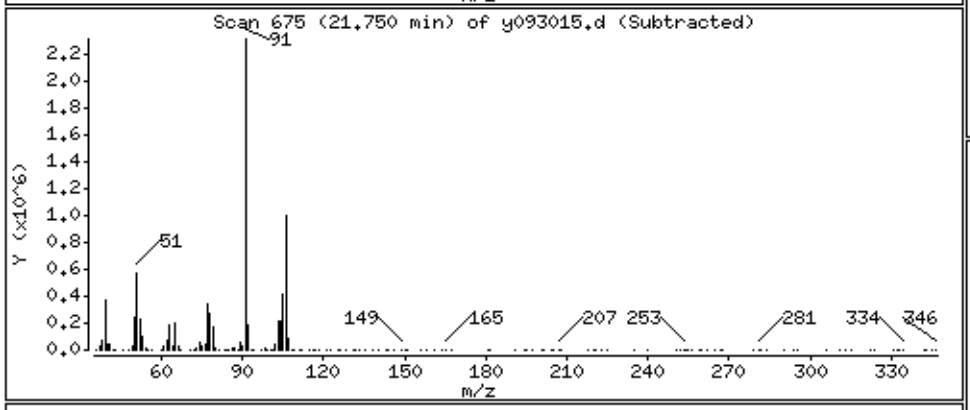
Column diameter: 0.53

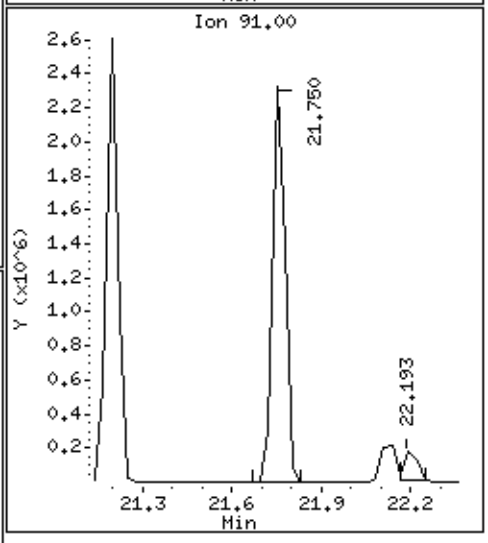
129 o-Xylene

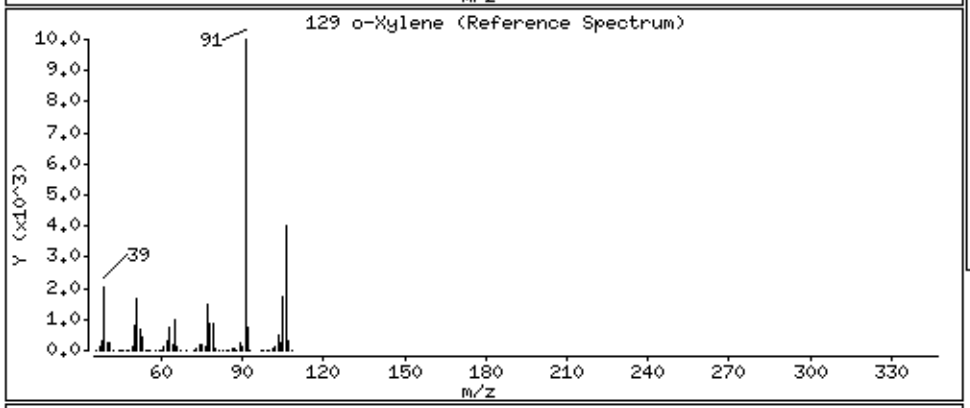
Concentration: 51.637 PPBV

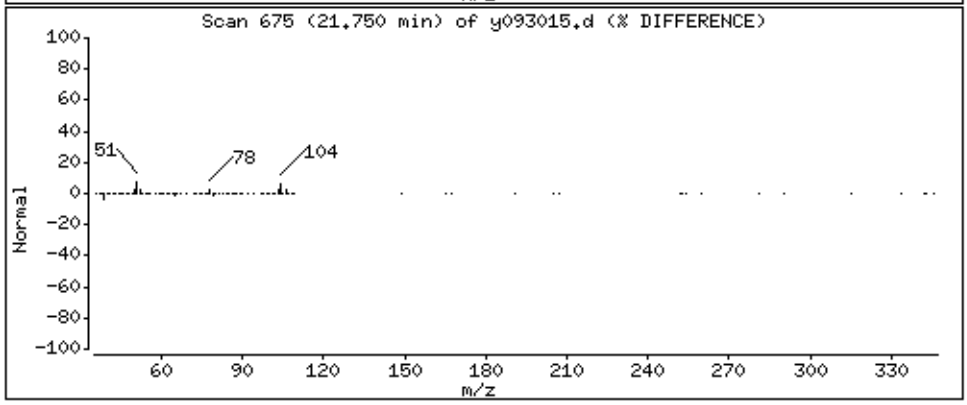












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

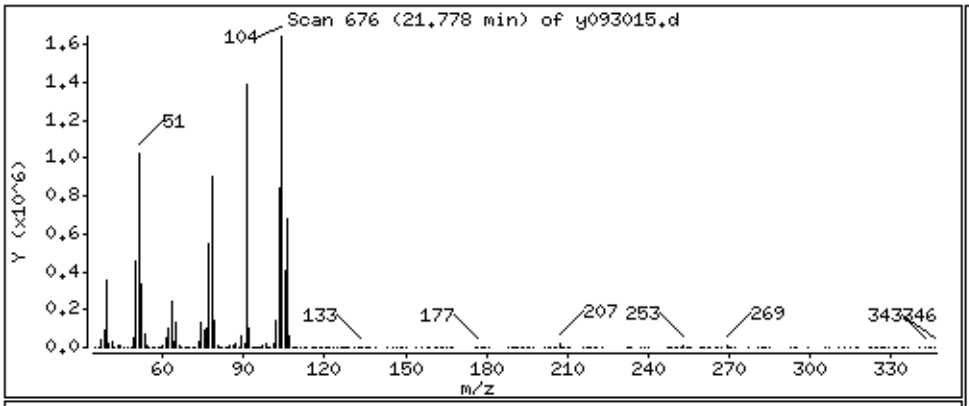
Operator: db

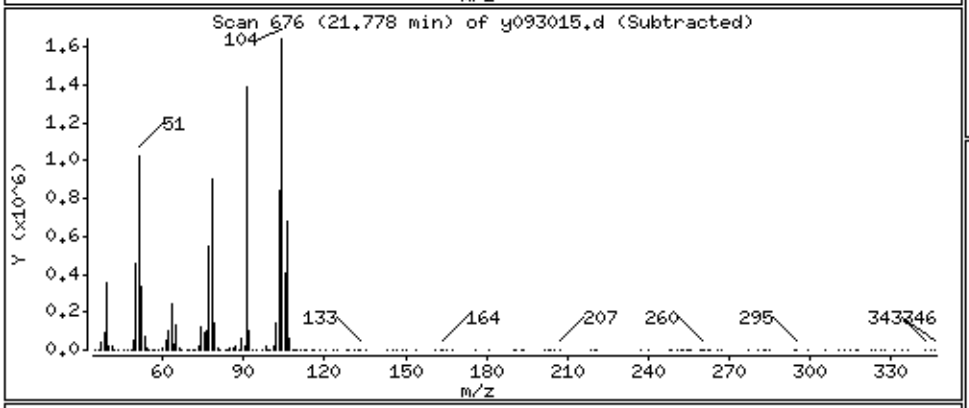
Column phase: RTx-624

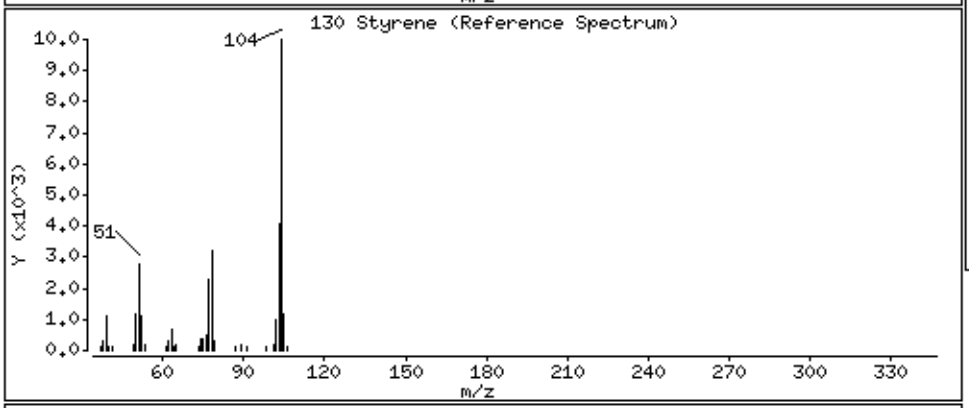
Column diameter: 0.53

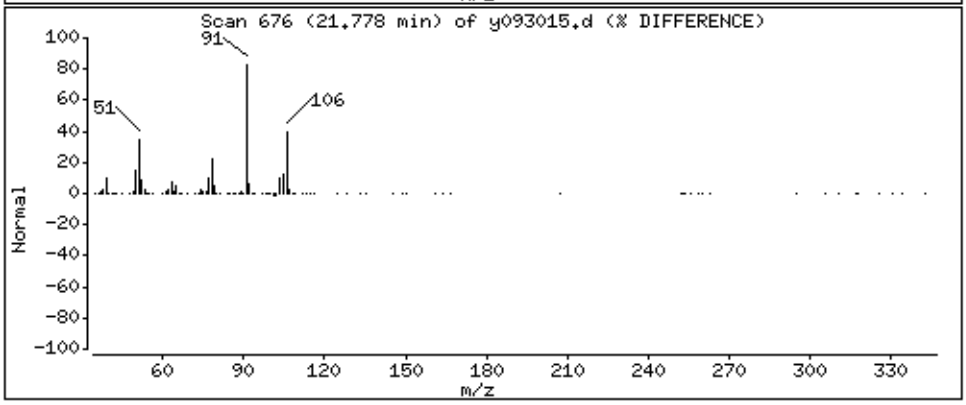
130 Styrene

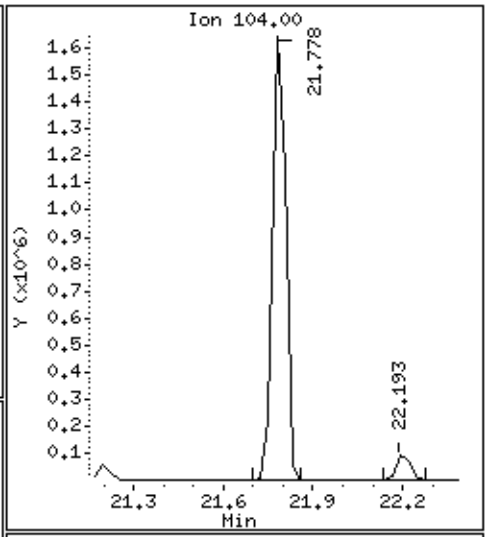
Concentration: 49.861 PPBV

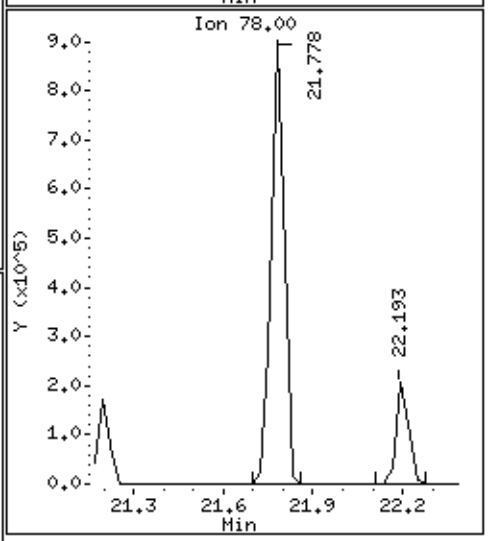












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

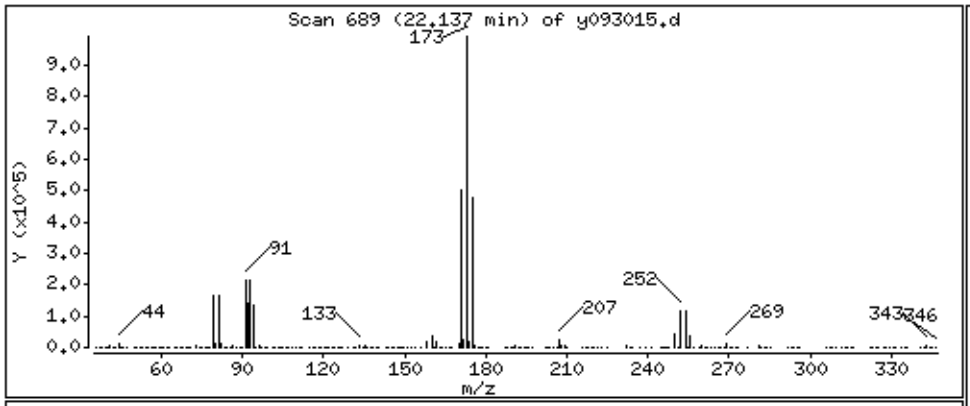
Operator: db

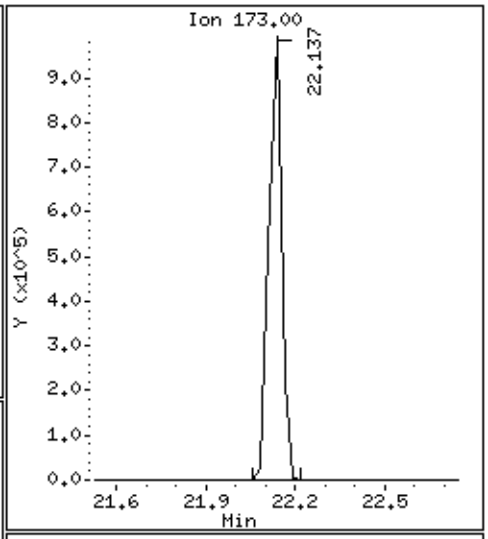
Column phase: RTx-624

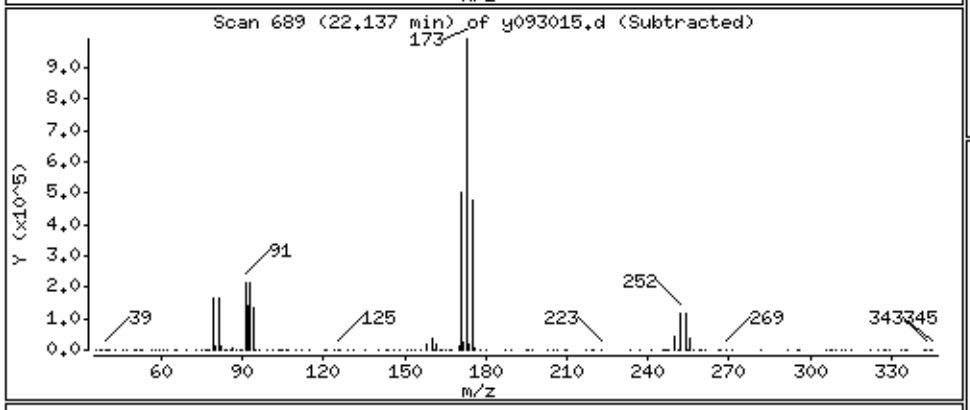
Column diameter: 0.53

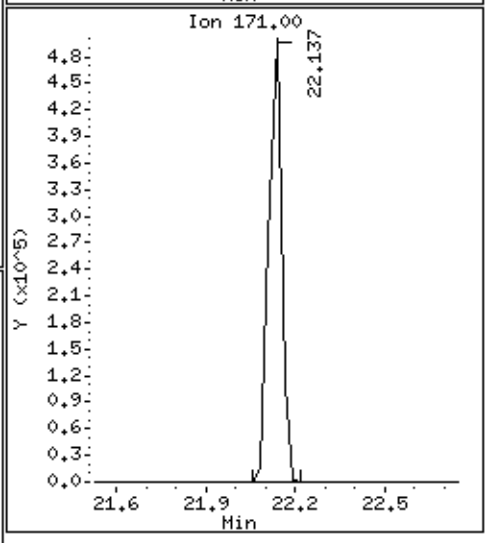
132 Bromoform

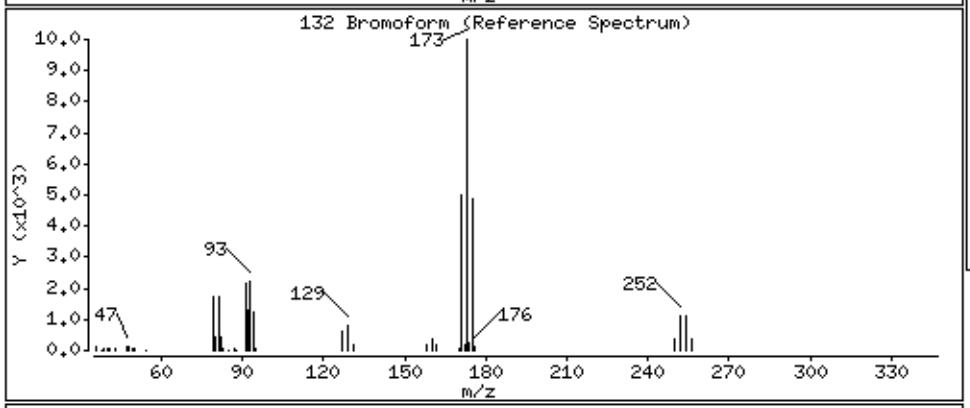
Concentration: 53.180 PPBV

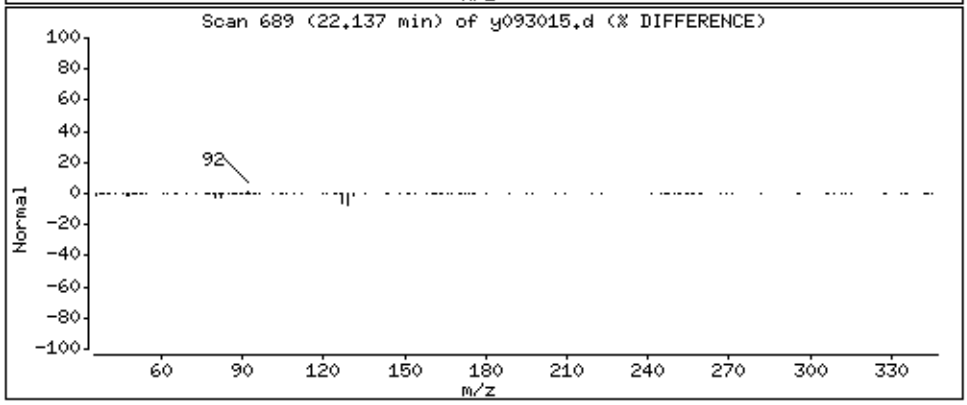












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

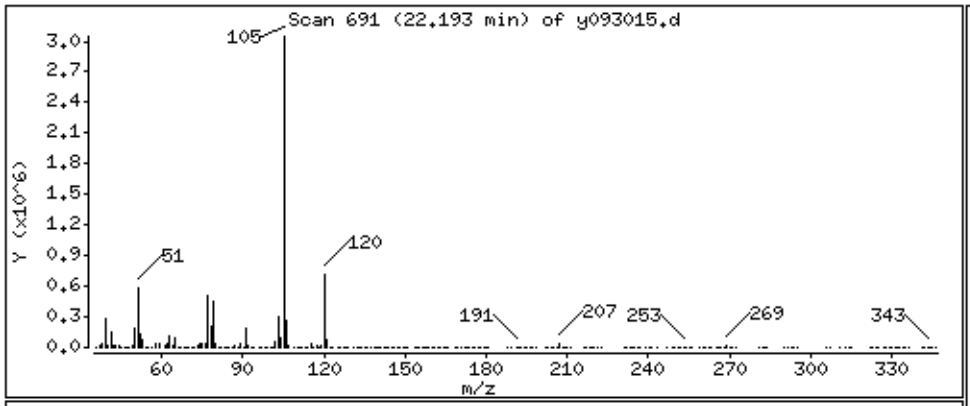
Operator: db

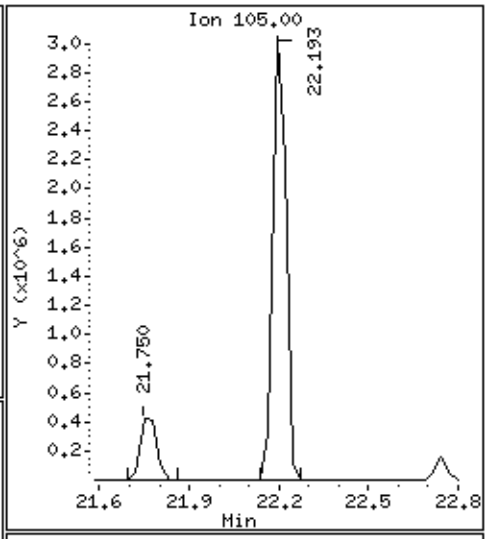
Column phase: RTx-624

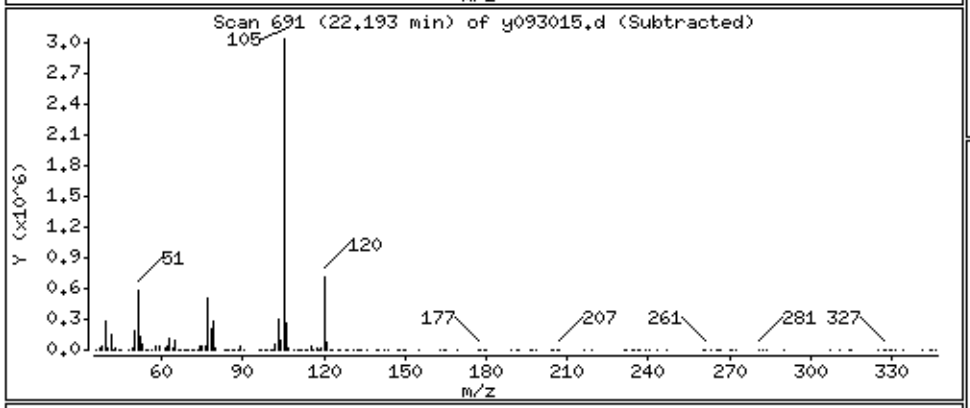
Column diameter: 0.53

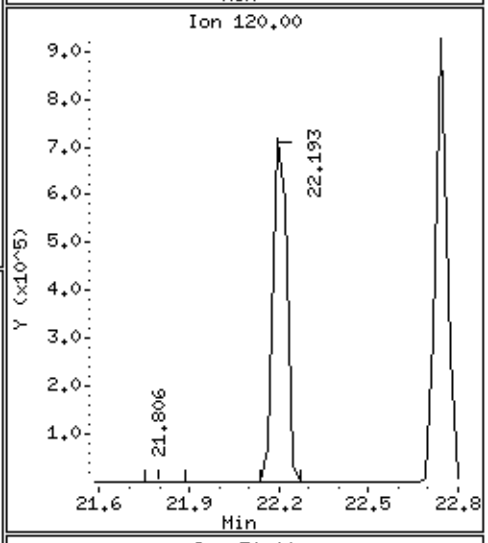
133 Cumene

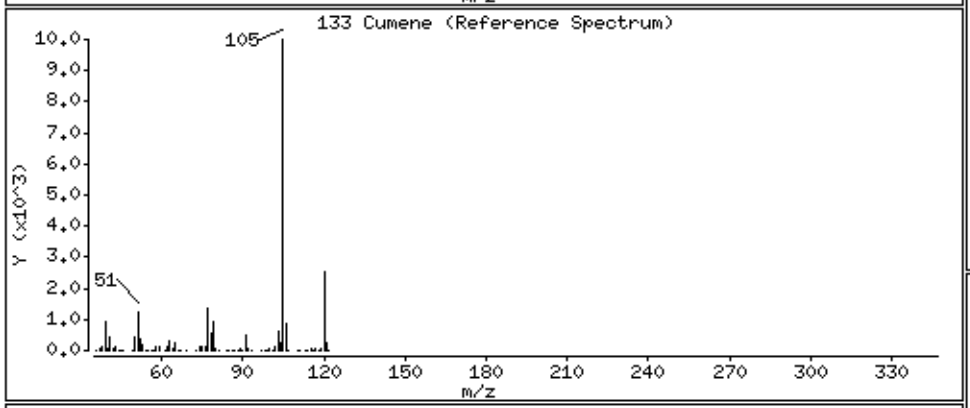
Concentration: 49.524 PPBV

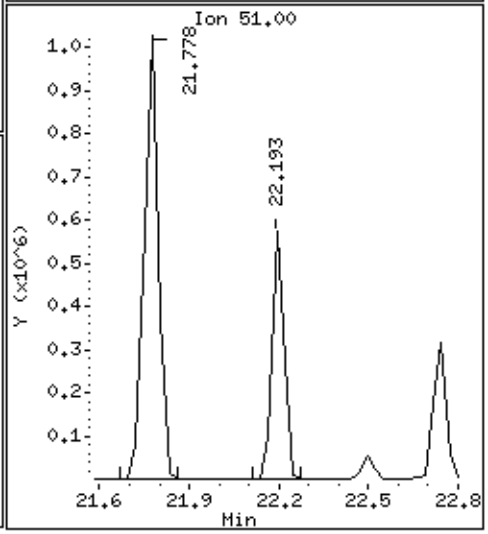


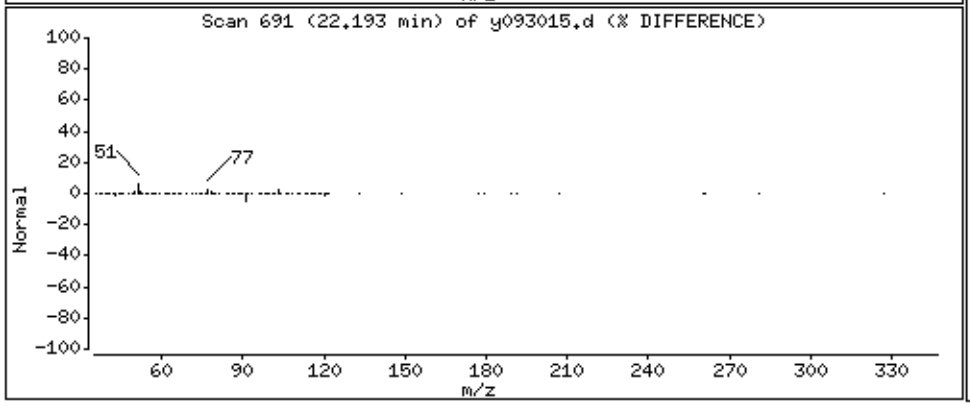












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

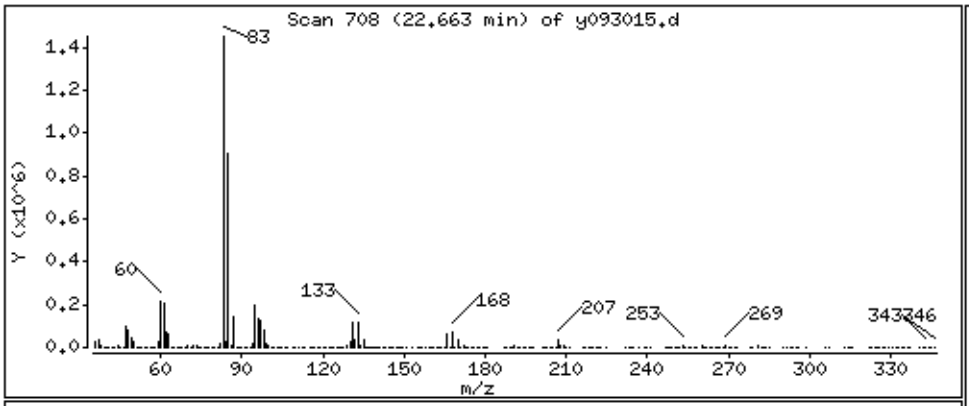
Operator: db

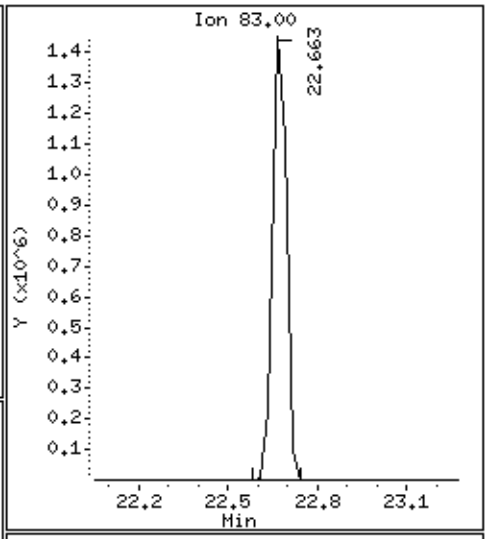
Column phase: RTx-624

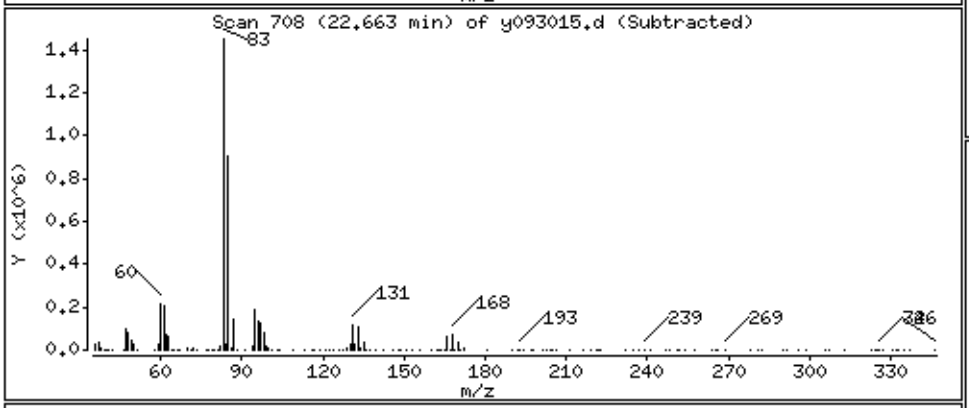
Column diameter: 0.53

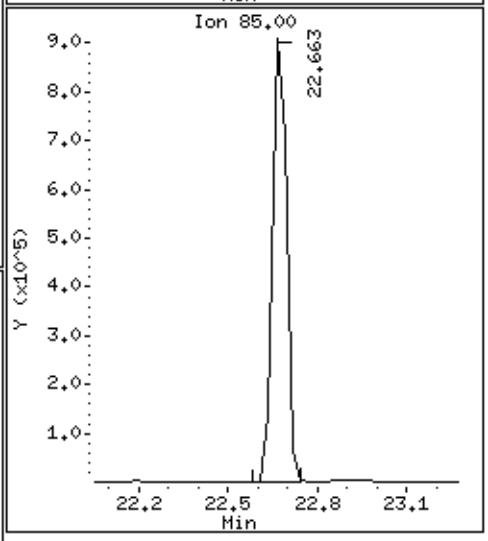
136 1,1,2,2-Tetrachloroethane

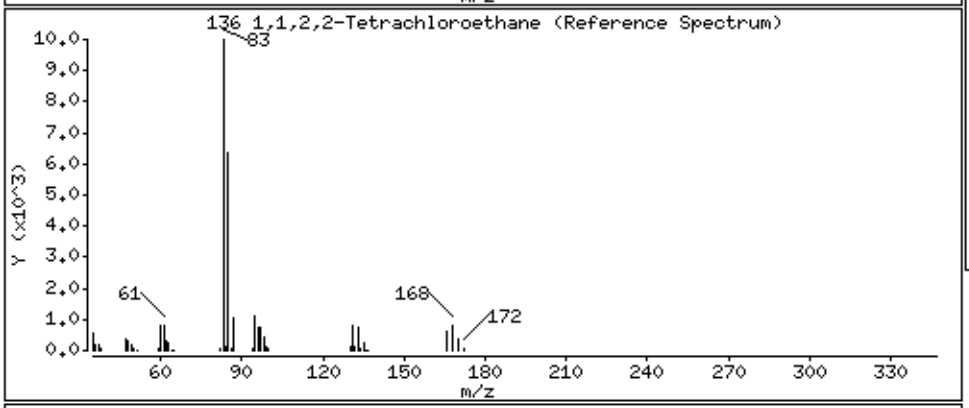
Concentration: 55.644 PPBV

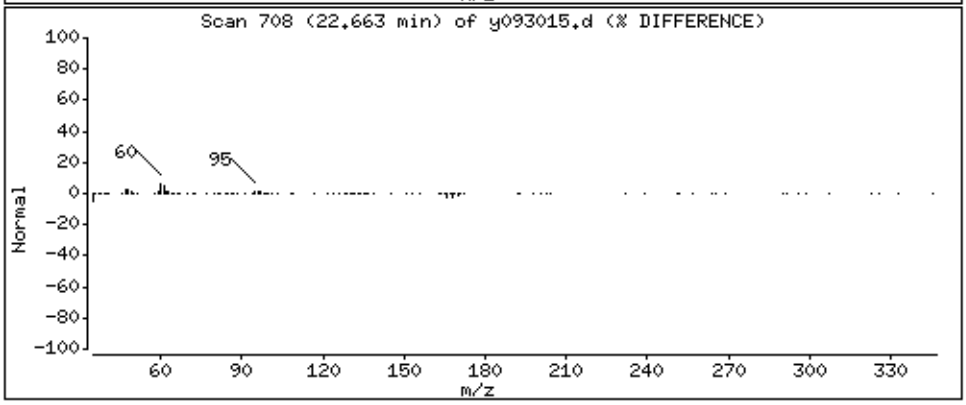












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

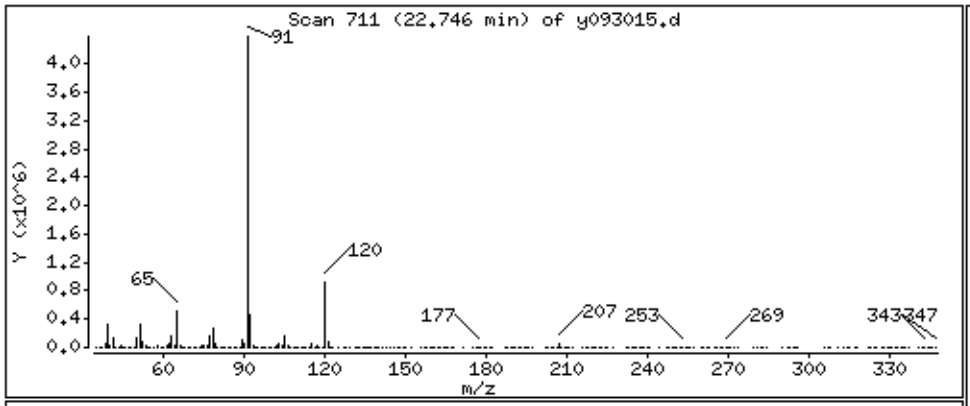
Operator: db

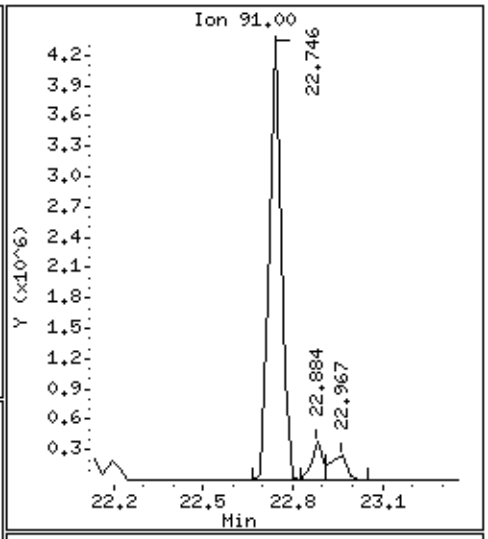
Column phase: RTx-624

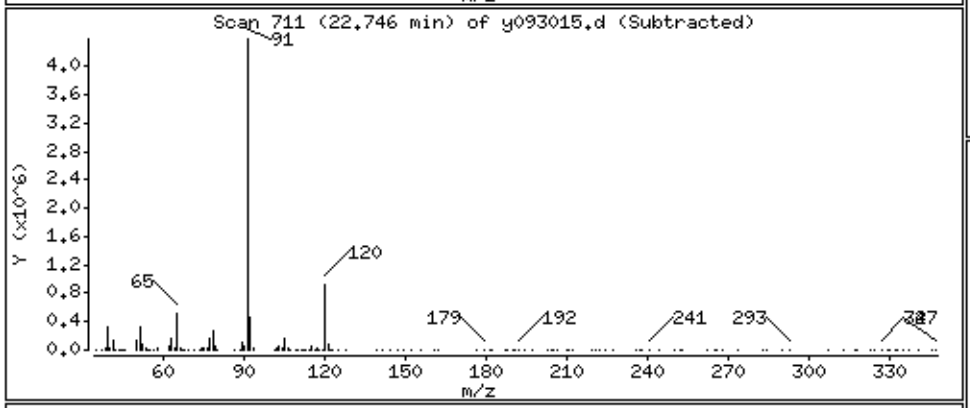
Column diameter: 0.53

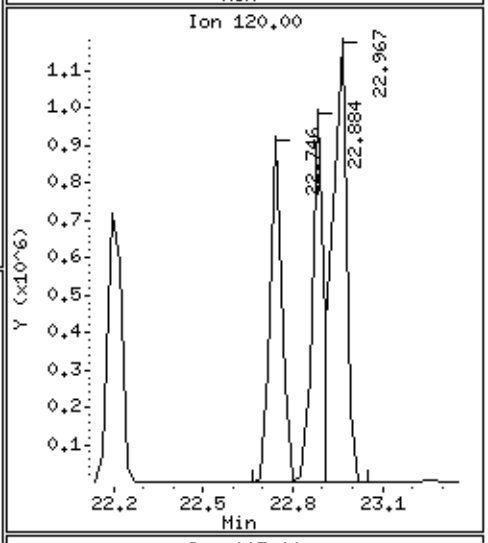
139 Propylbenzene

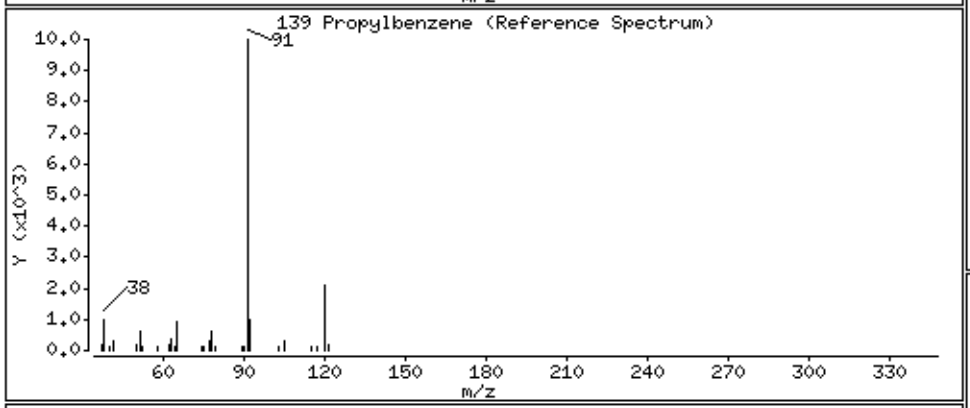
Concentration: 54.963 PPBV

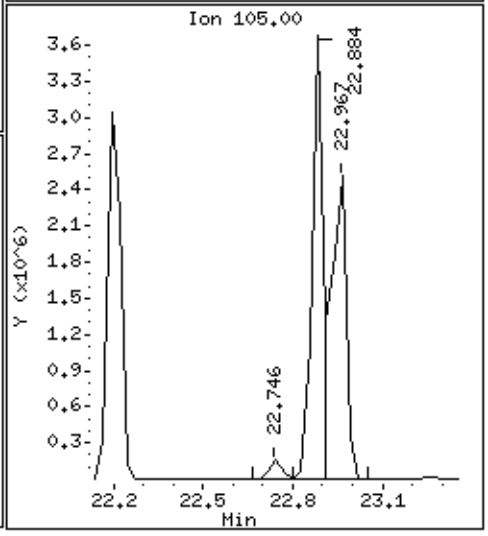


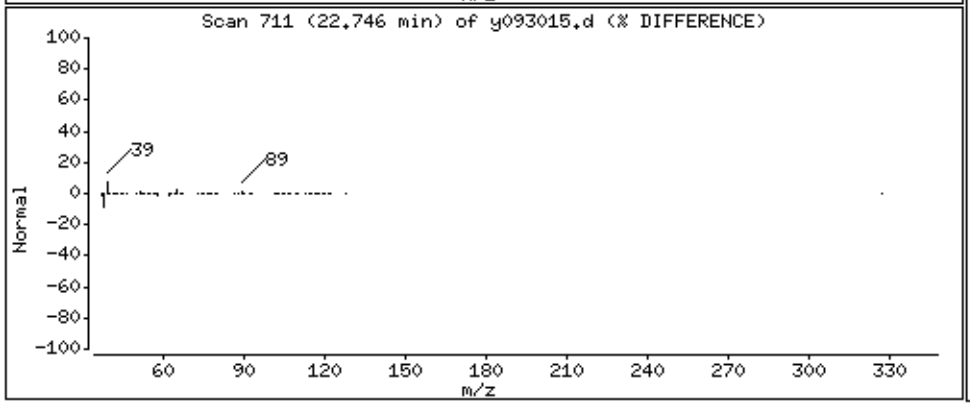












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

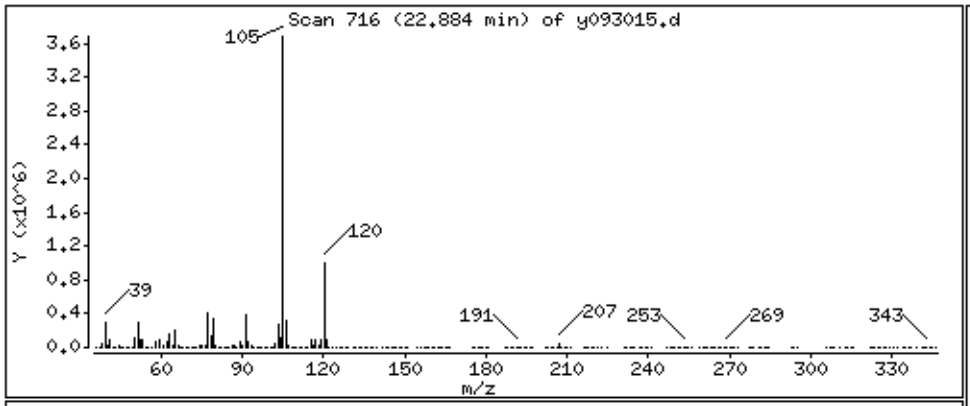
Operator: db

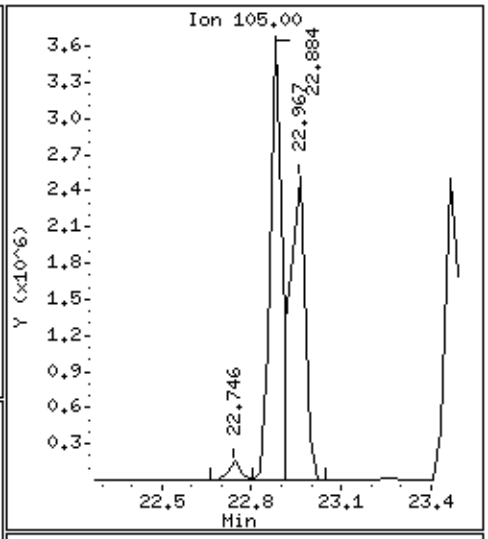
Column phase: RTx-624

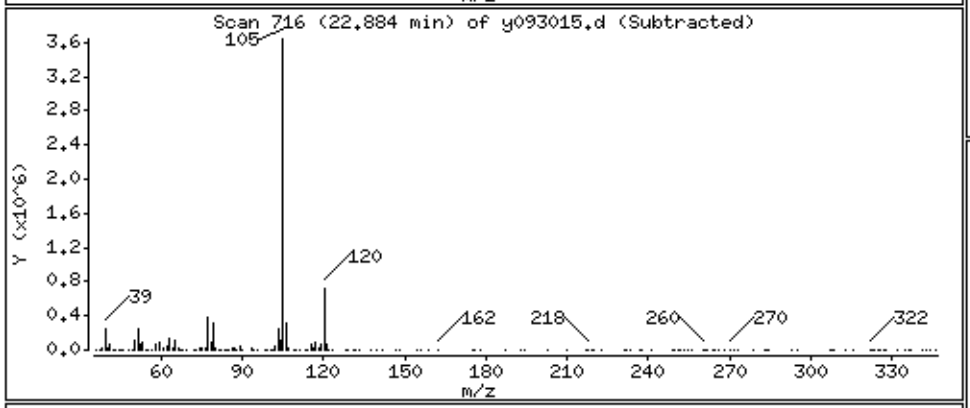
Column diameter: 0.53

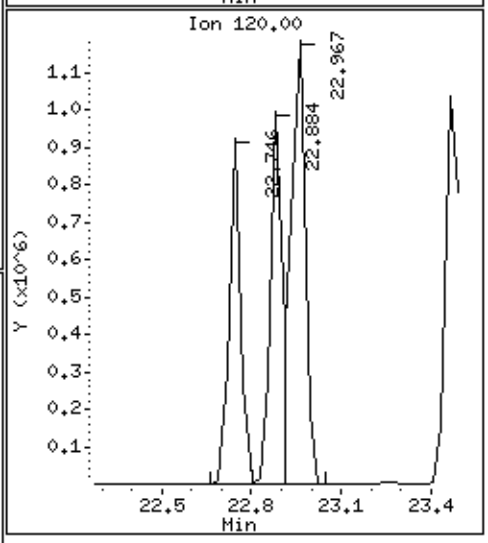
142 4-Ethyltoluene

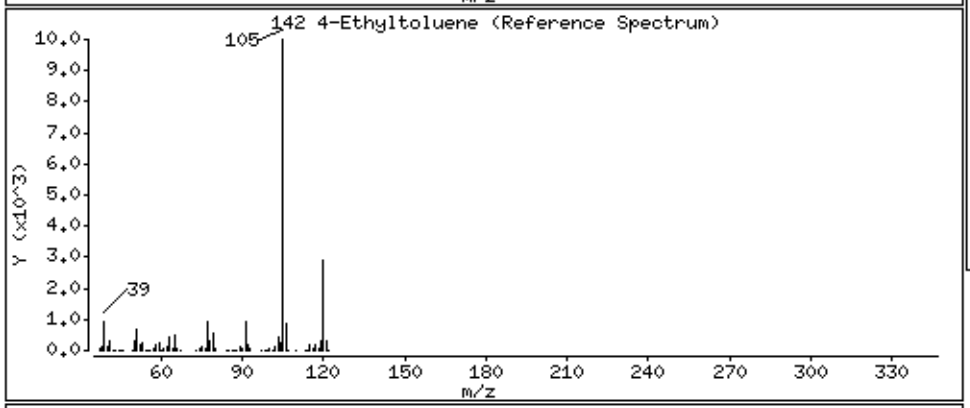
Concentration: 53.971 PPBV

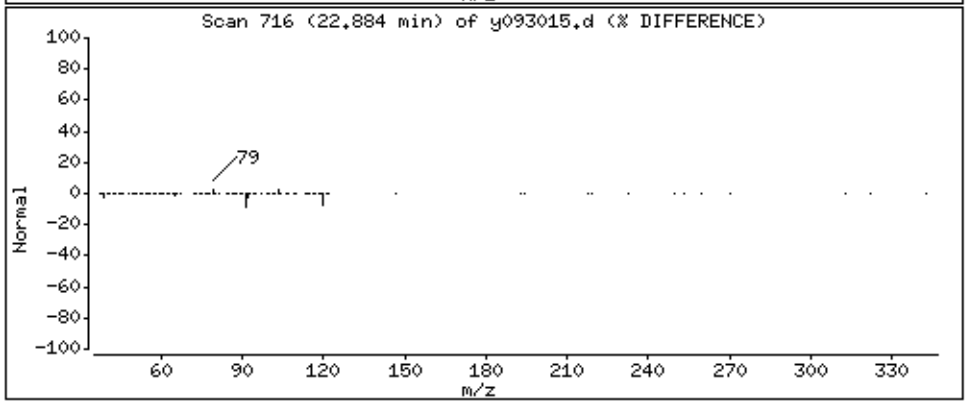












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

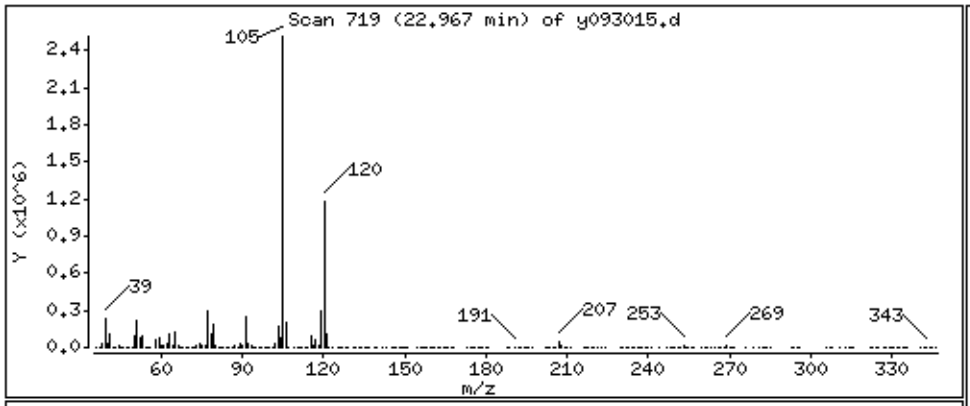
Operator: db

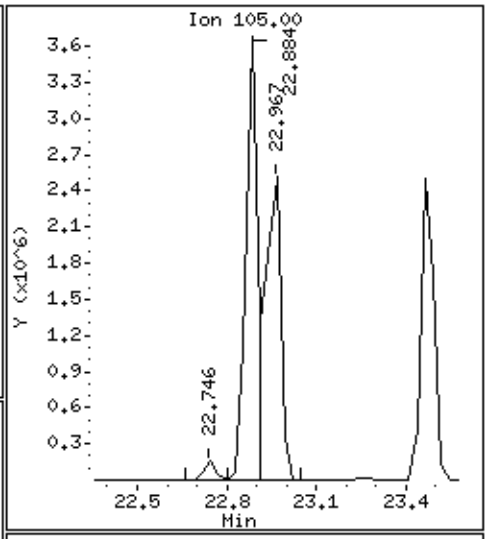
Column phase: RTx-624

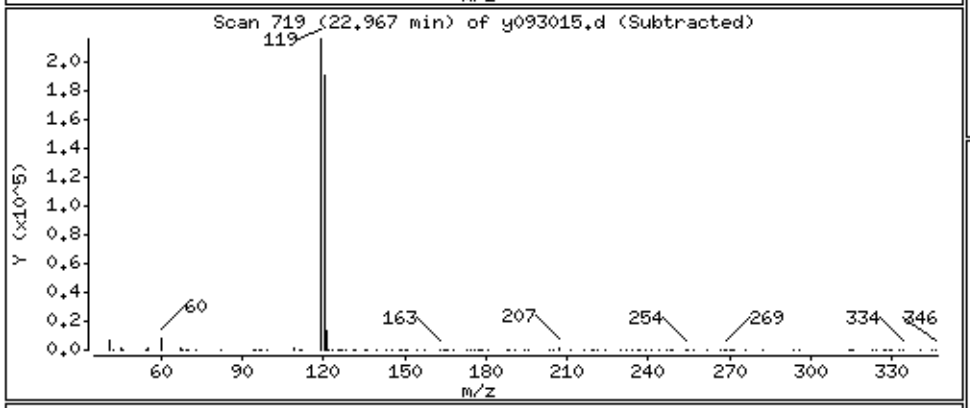
Column diameter: 0.53

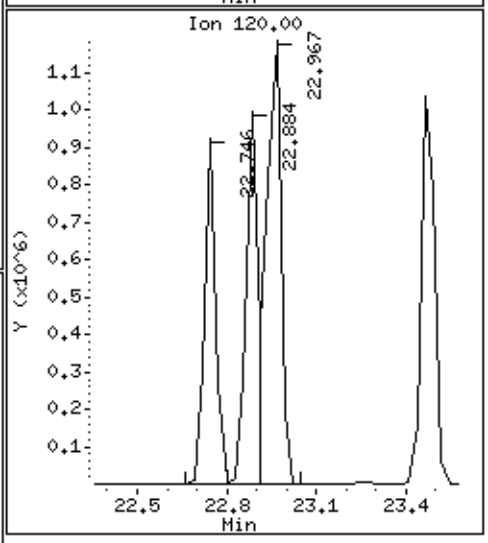
144 1,3,5-Trimethylbenzene

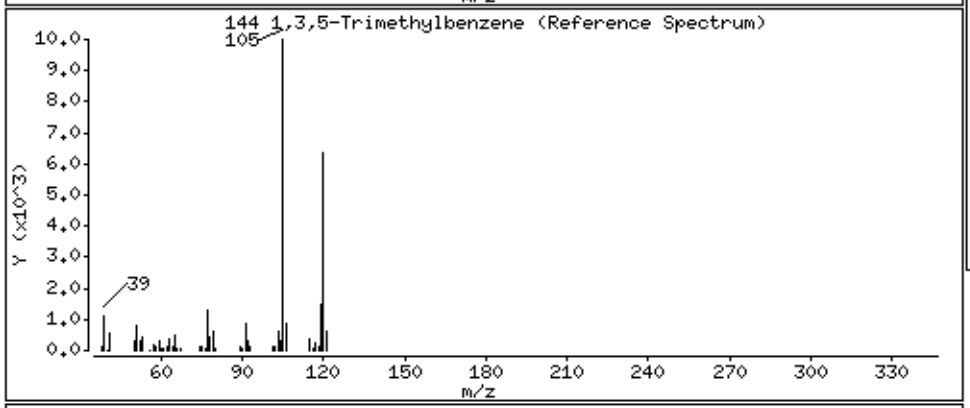
Concentration: 48.826 PPBV

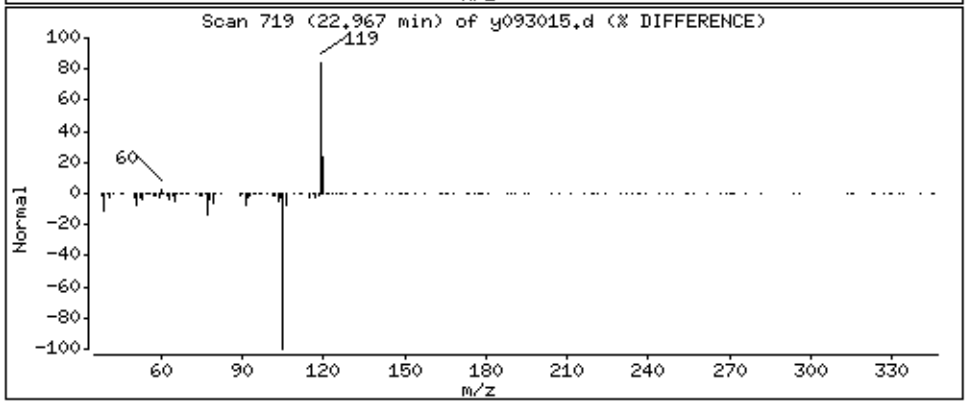












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

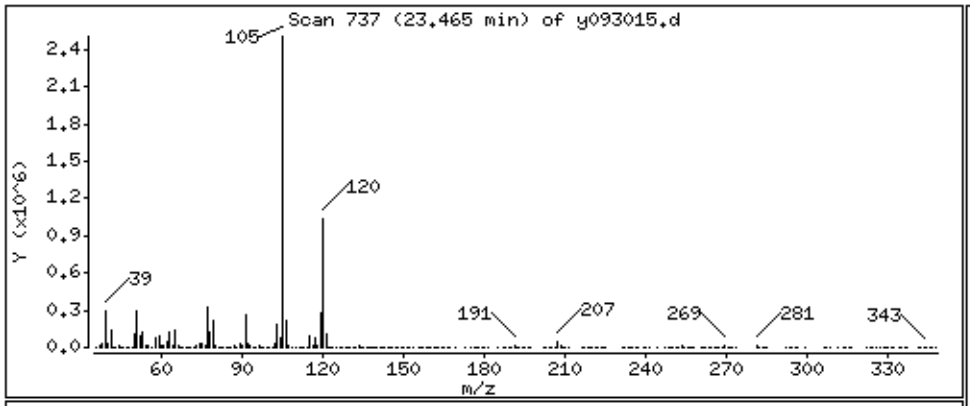
Operator: db

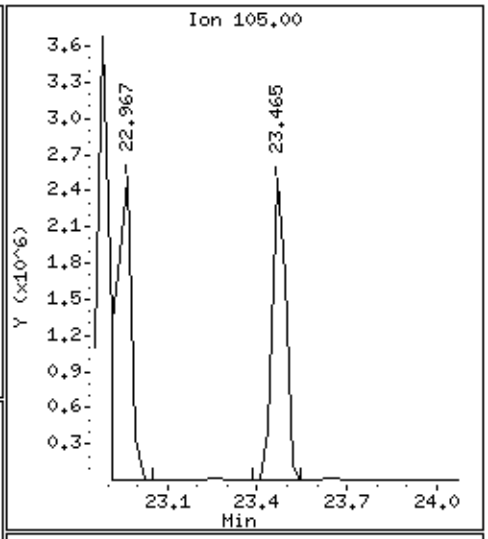
Column phase: RTx-624

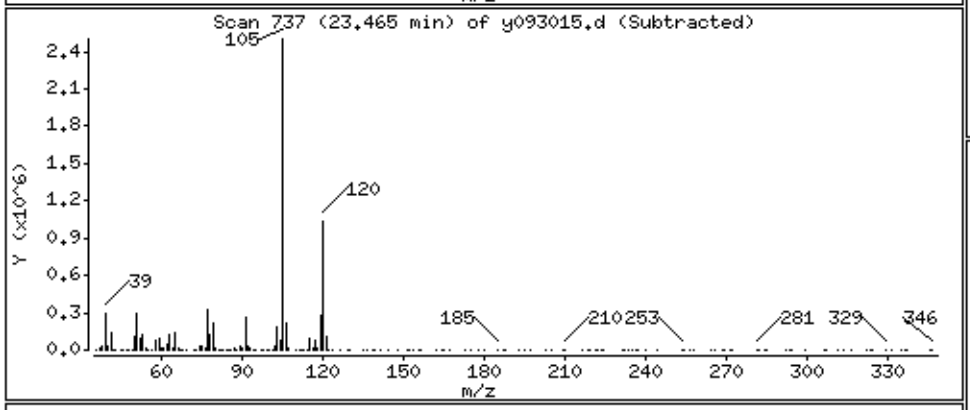
Column diameter: 0.53

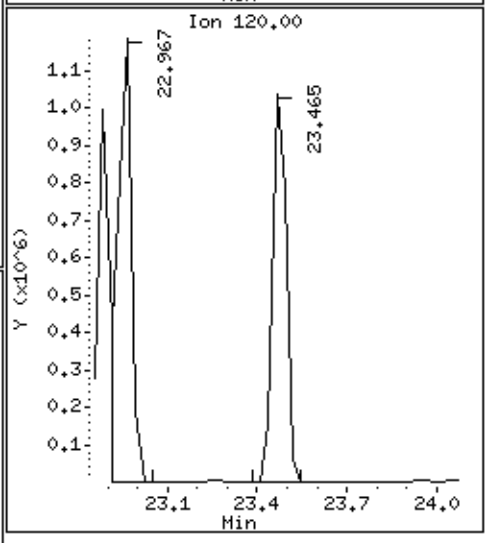
149 1,2,4-Trimethylbenzene

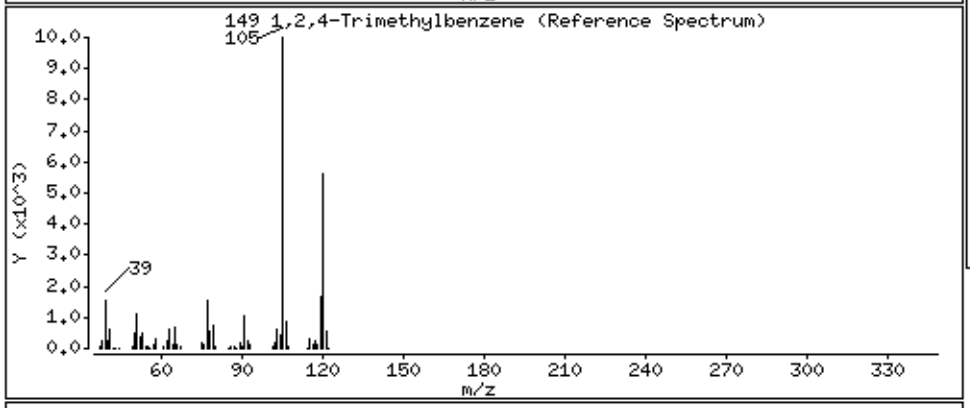
Concentration: 48.485 PPBV

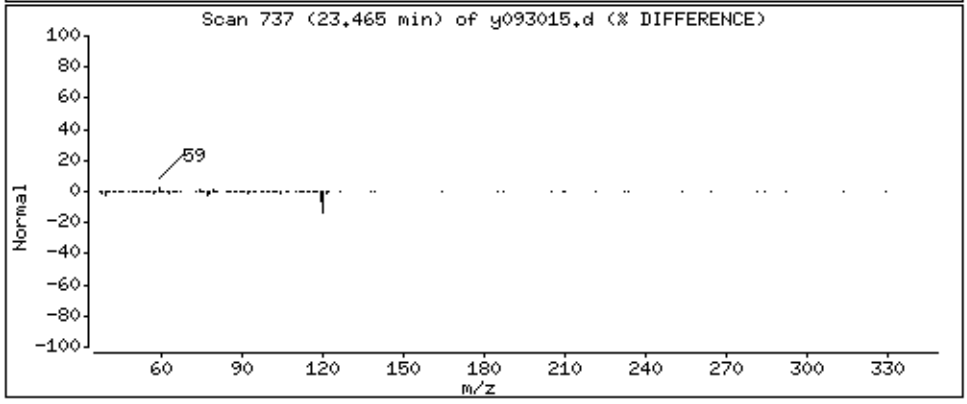












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

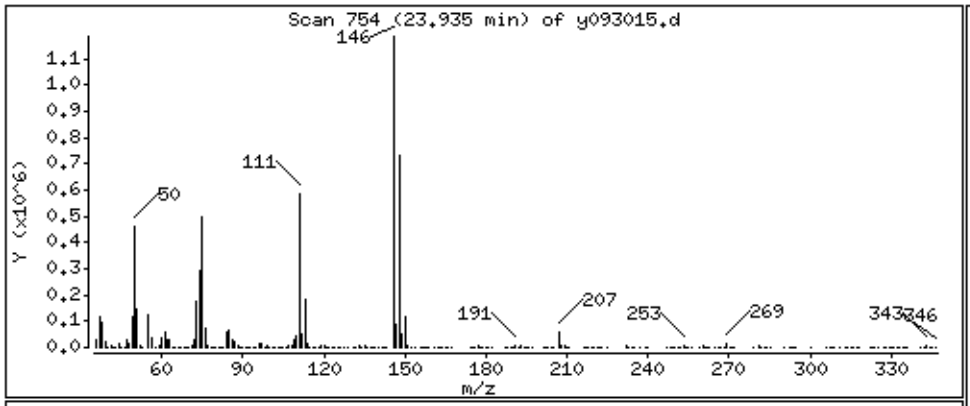
Operator: db

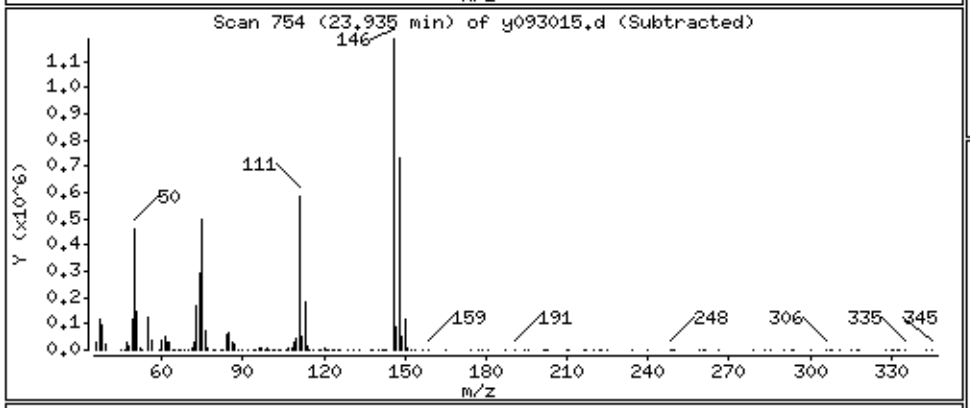
Column phase: RTx-624

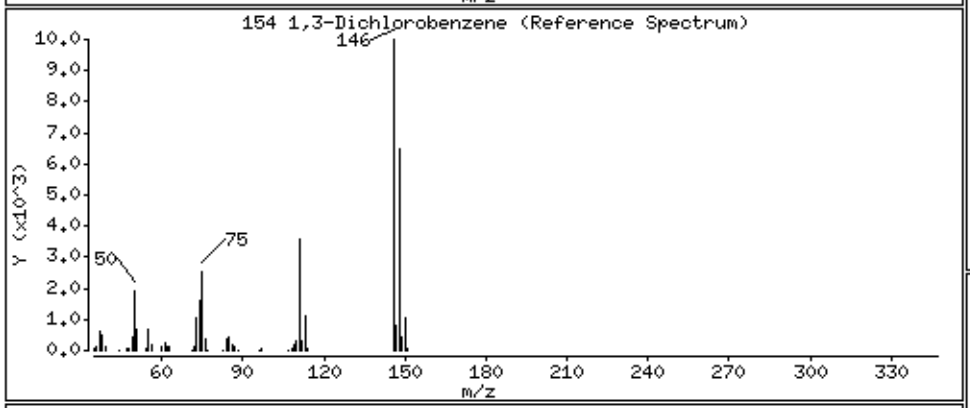
Column diameter: 0.53

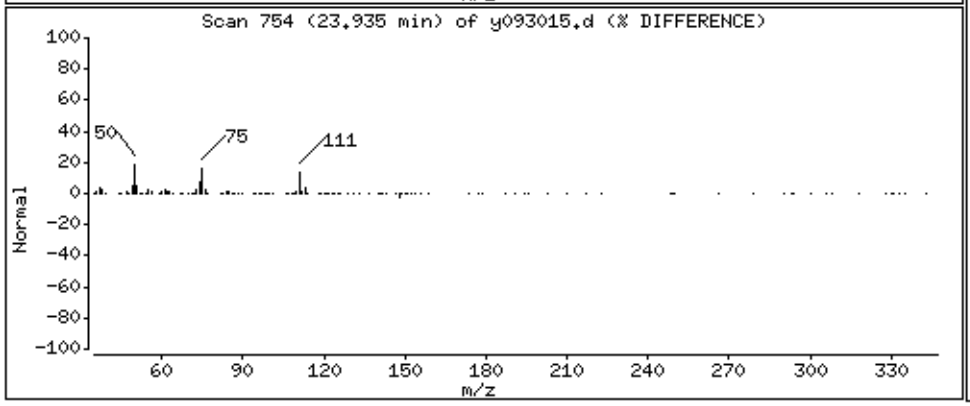
154 1,3-Dichlorobenzene

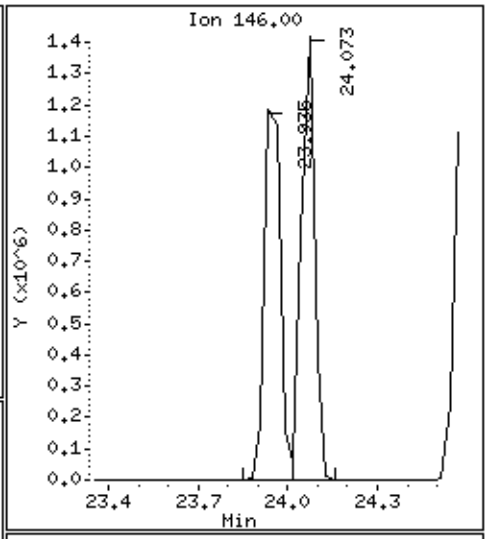
Concentration: 53.366 PPBV

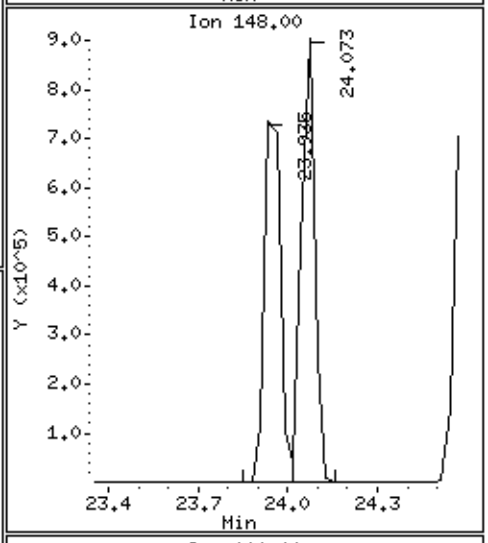


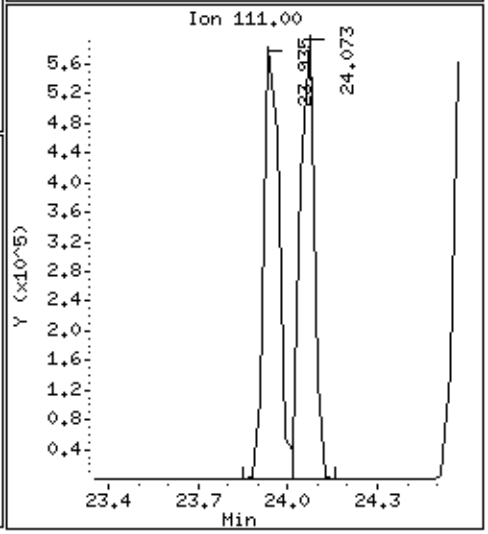












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

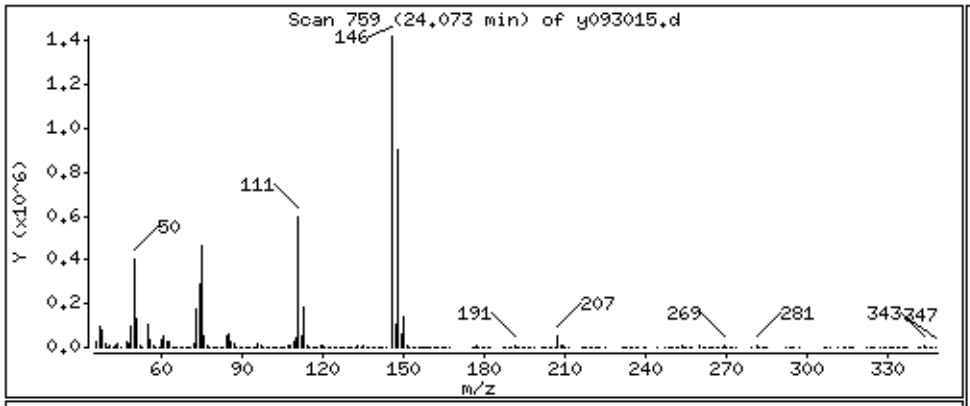
Operator: db

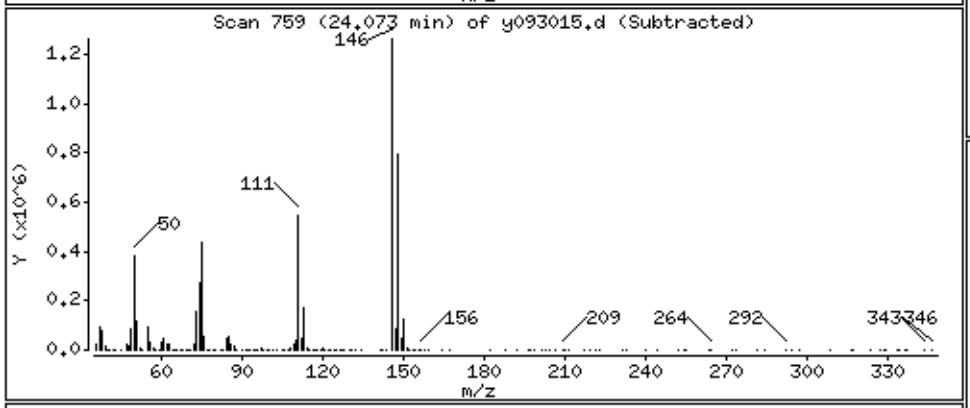
Column phase: RTx-624

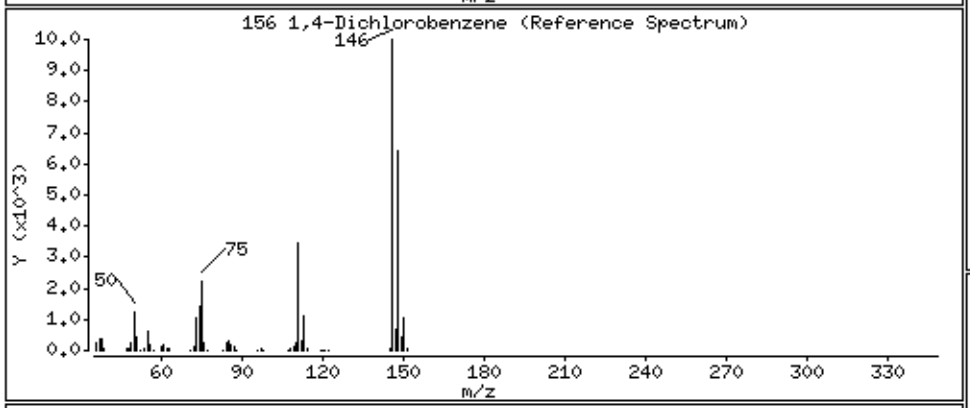
Column diameter: 0.53

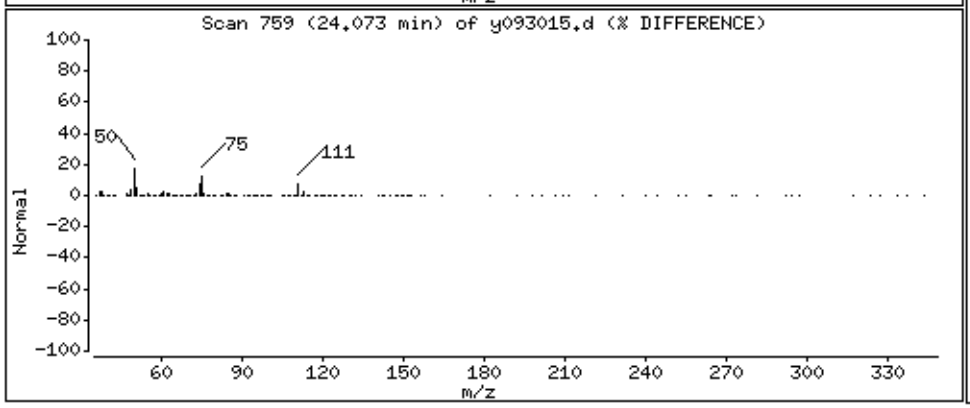
156 1,4-Dichlorobenzene

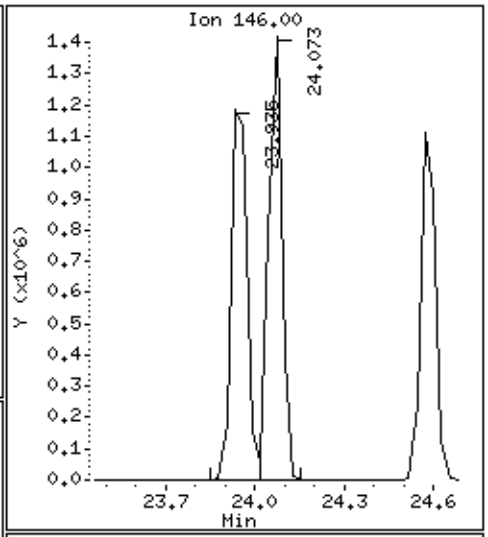
Concentration: 52.305 PPBV

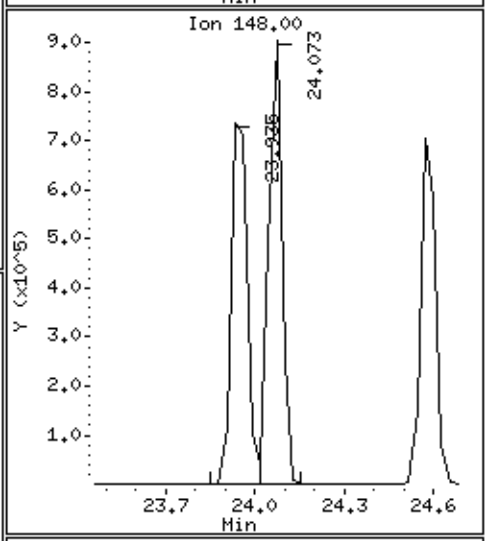


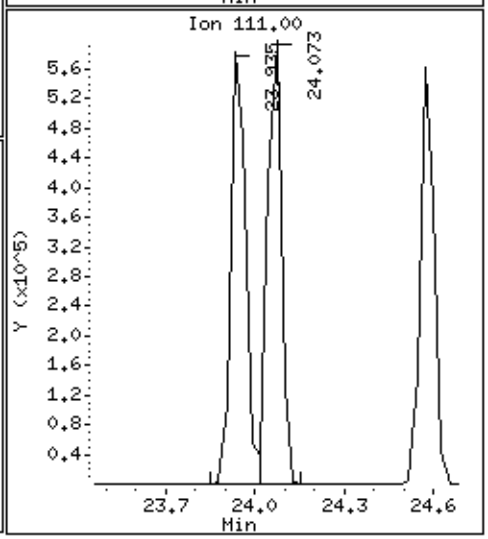












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

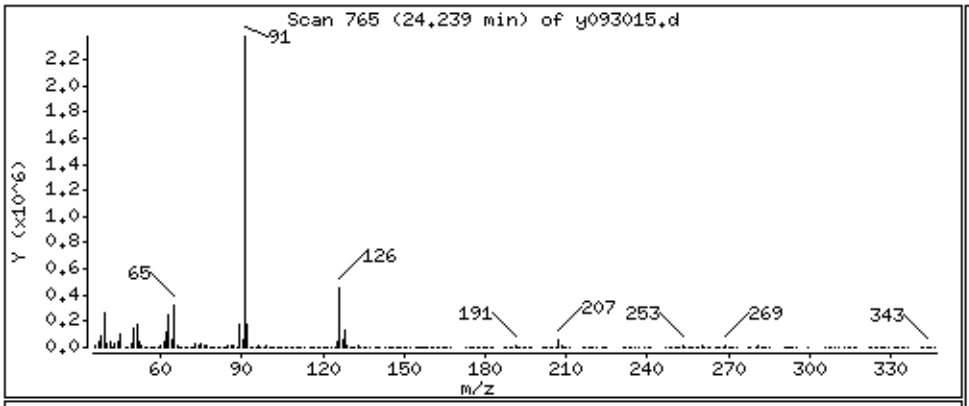
Operator: db

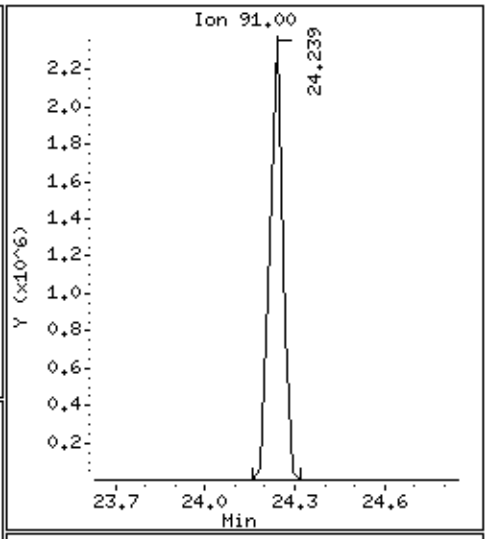
Column phase: RTx-624

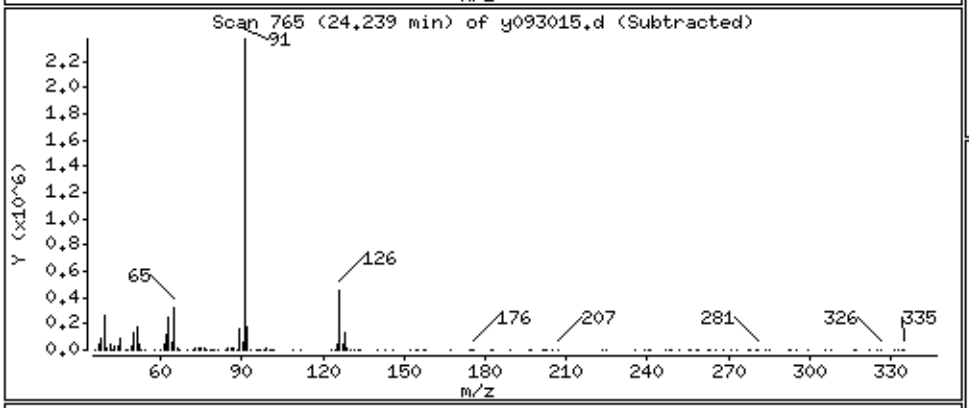
Column diameter: 0.53

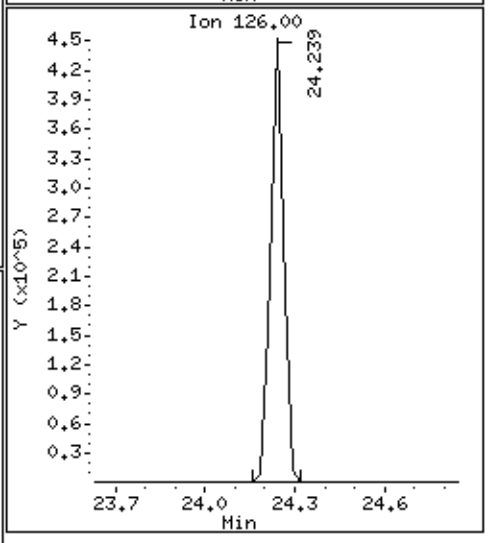
158 alpha-Chlorotoluene

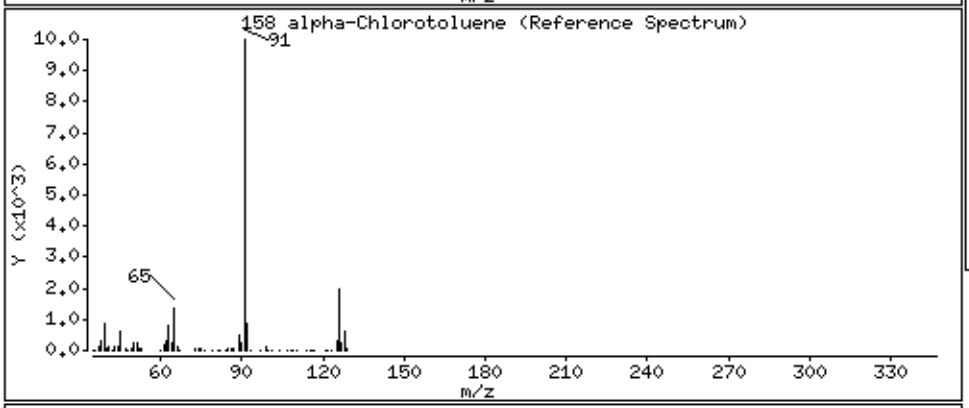
Concentration: 56.032 PPBV

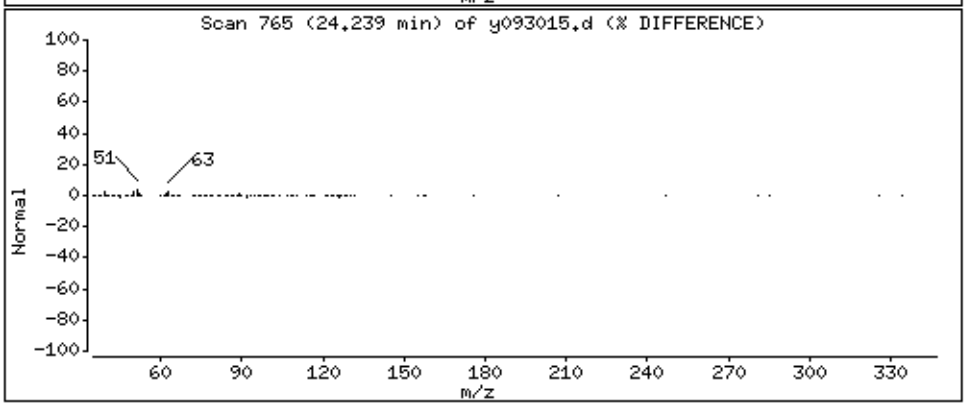












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

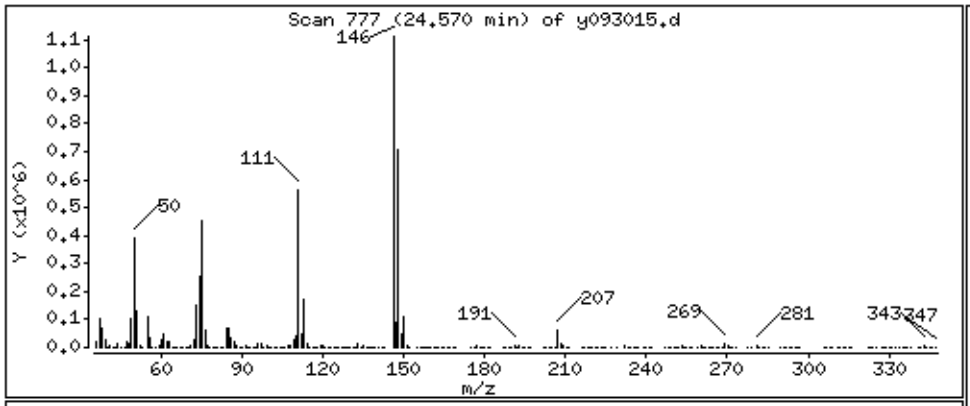
Operator: db

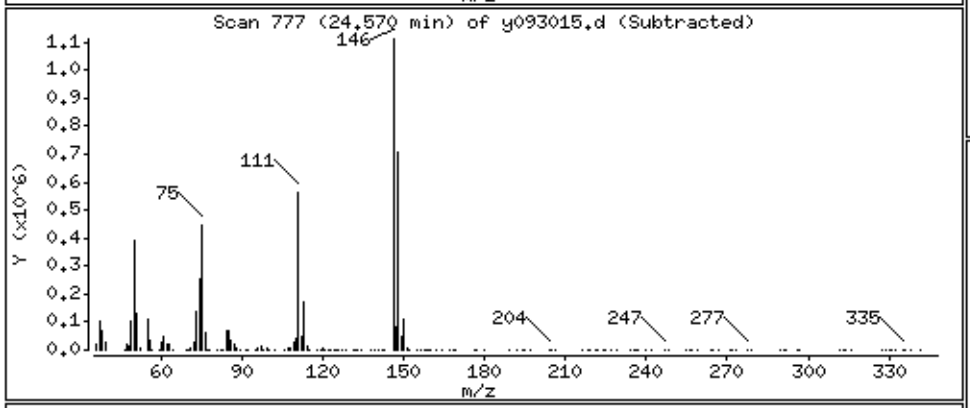
Column phase: RTx-624

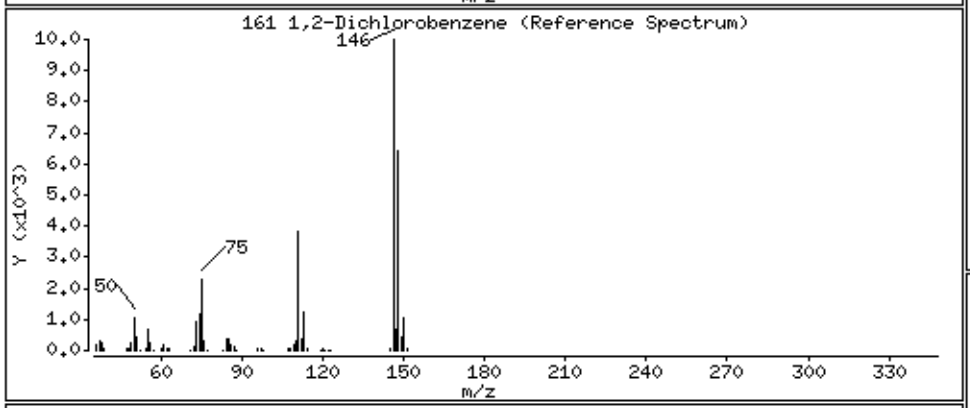
Column diameter: 0.53

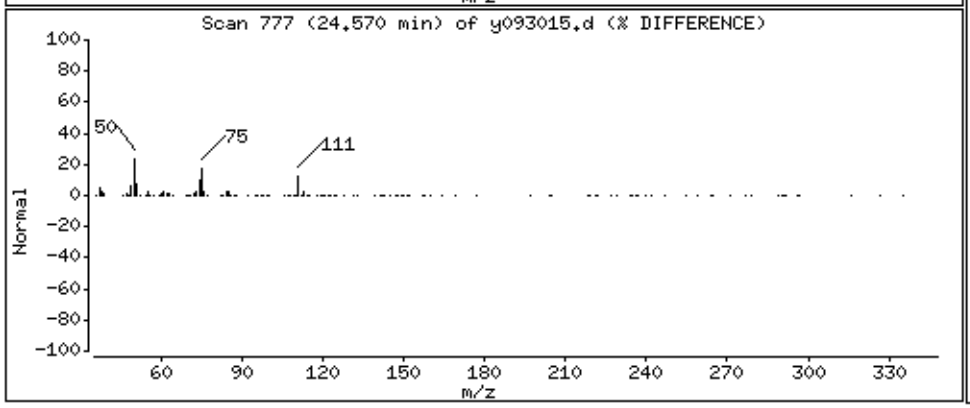
161 1,2-Dichlorobenzene

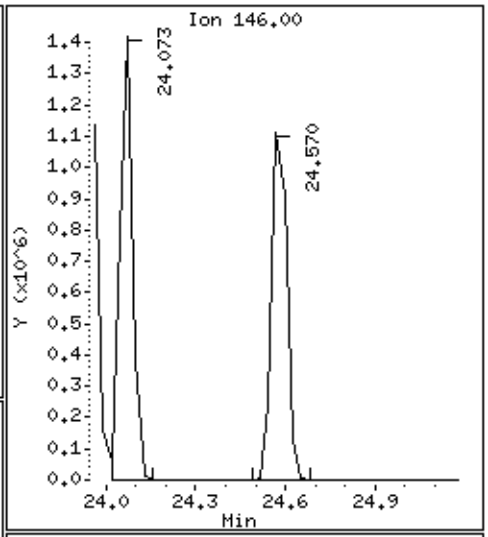
Concentration: 51.958 PPBV

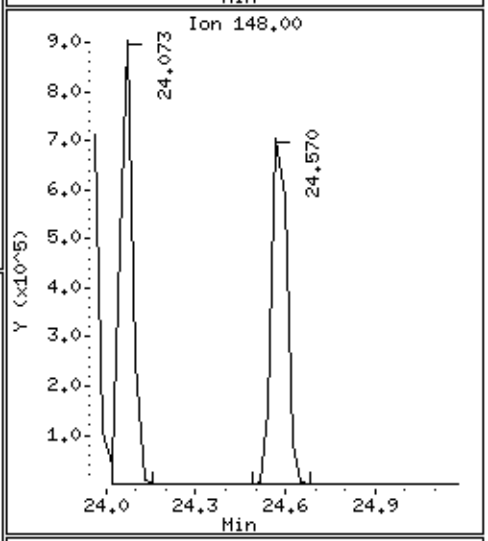


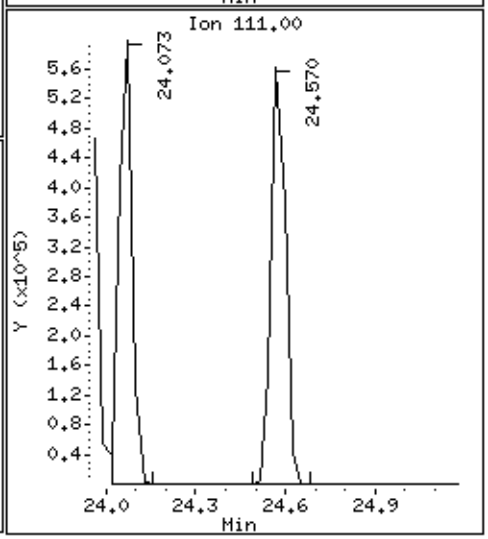












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

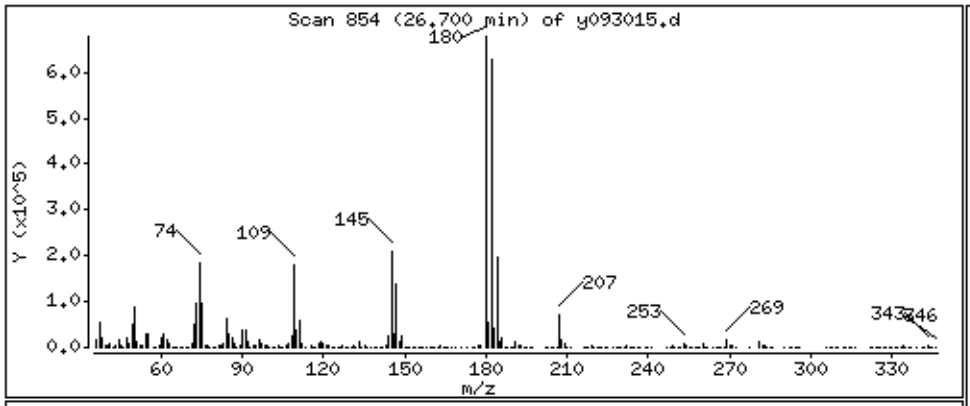
Operator: db

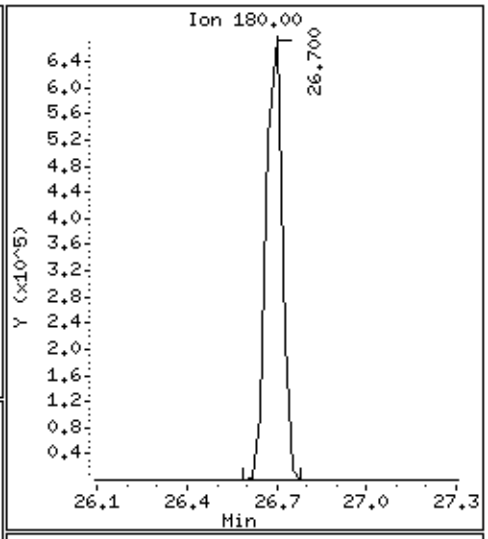
Column phase: RTx-624

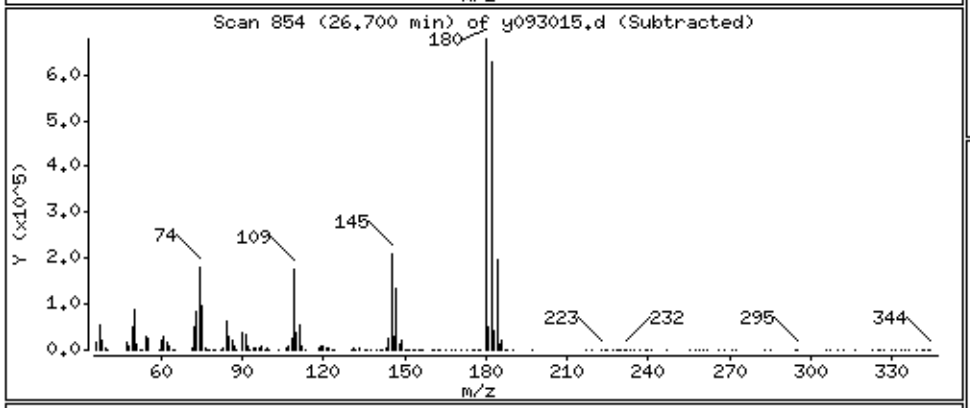
Column diameter: 0.53

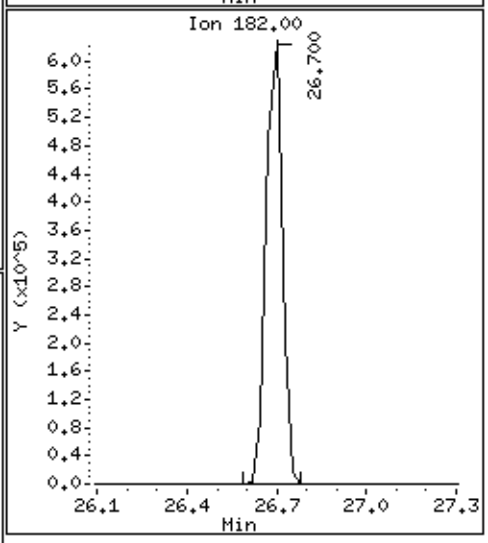
166 1,2,4-Trichlorobenzene

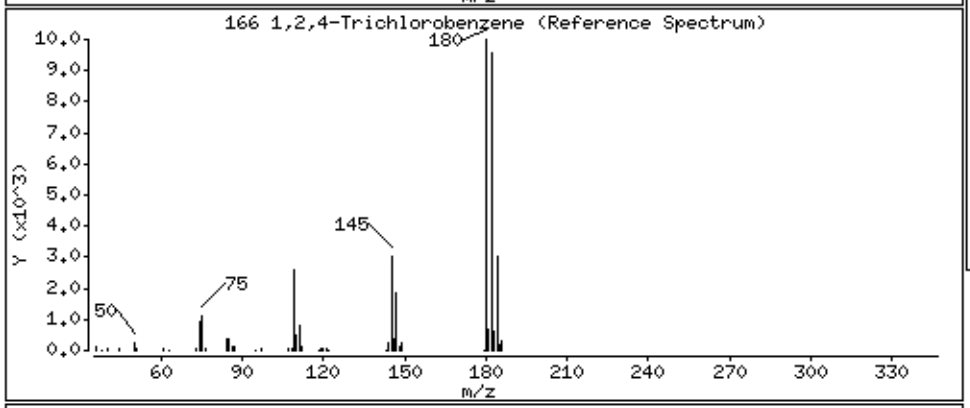
Concentration: 51.251 PPBV

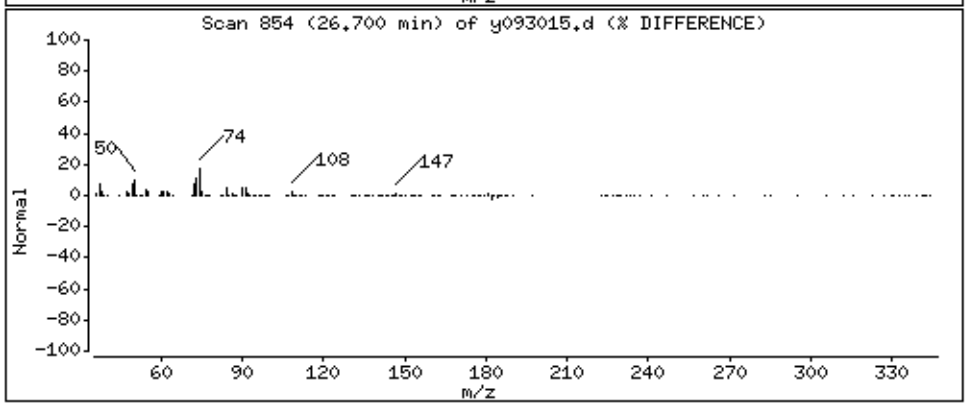












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

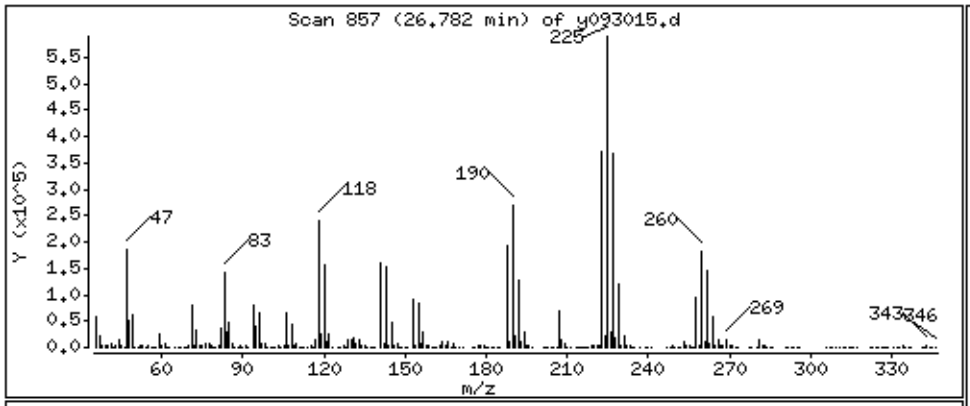
Operator: db

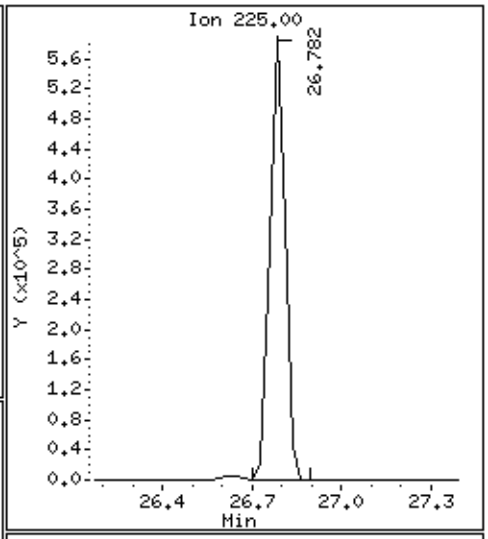
Column phase: RTx-624

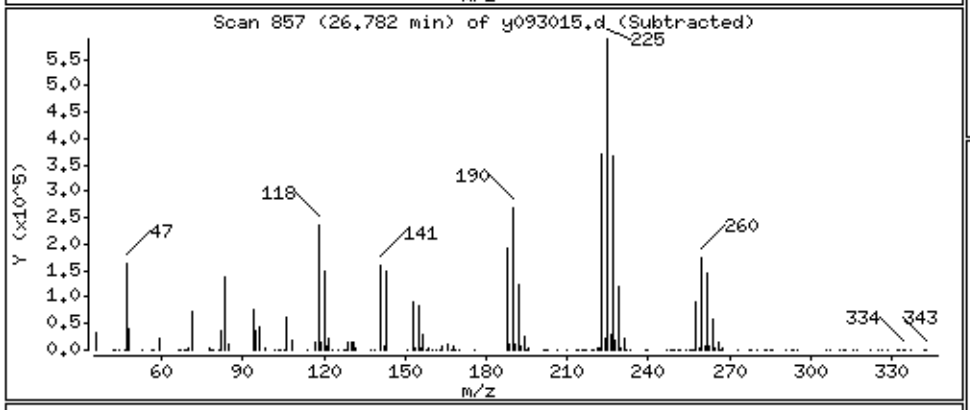
Column diameter: 0.53

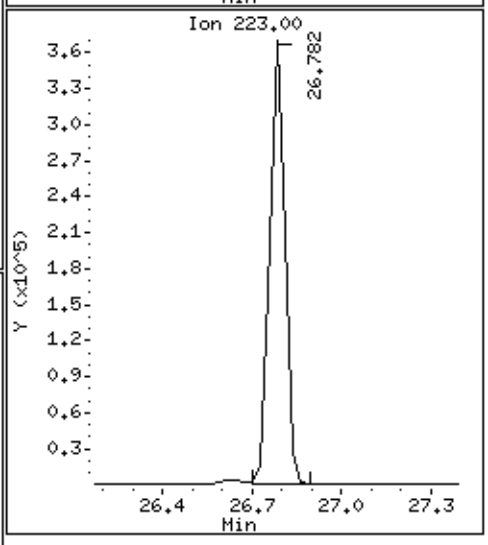
167 Hexachlorobutadiene

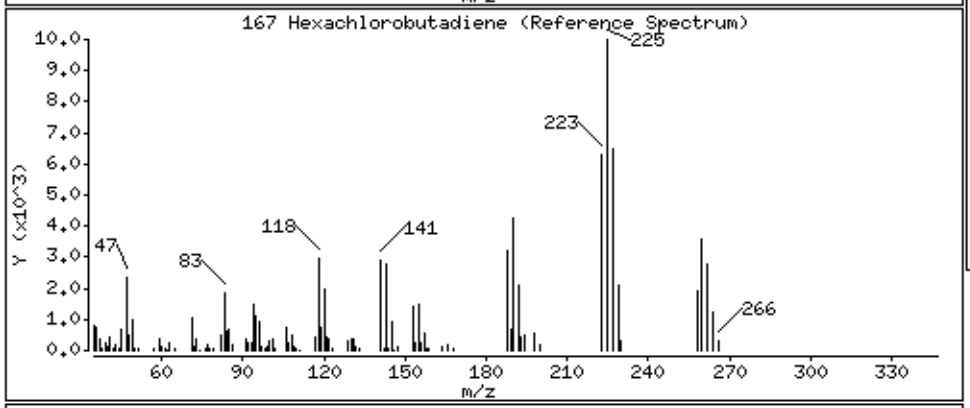
Concentration: 51.773 PPBV

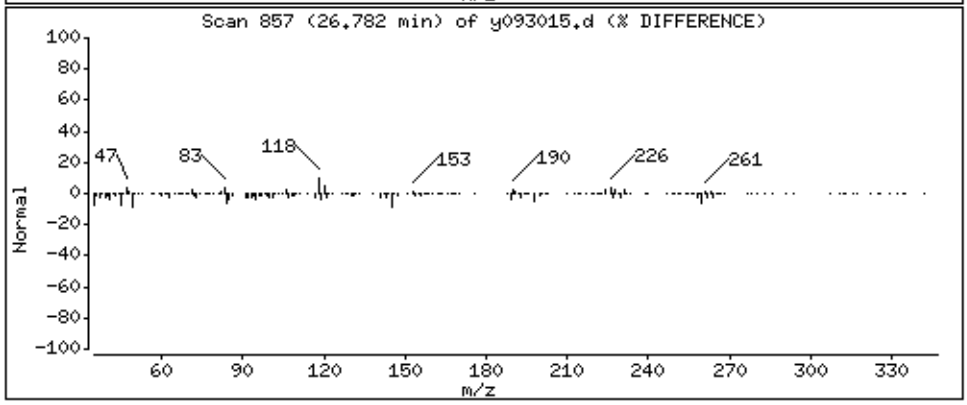












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

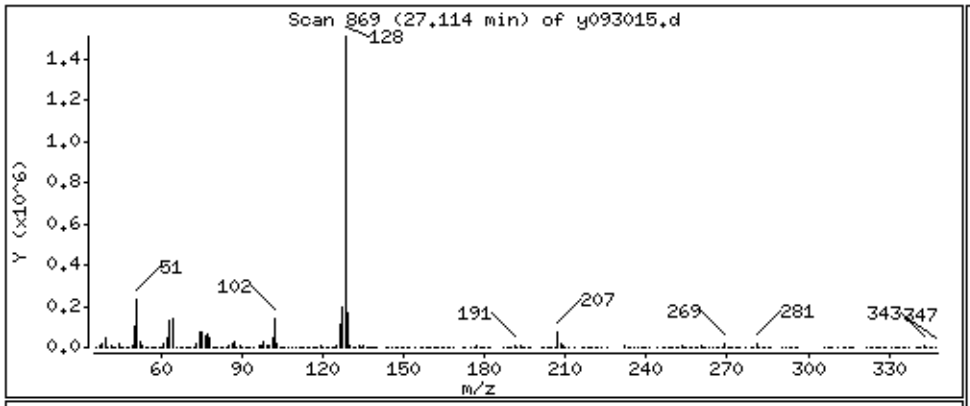
Operator: db

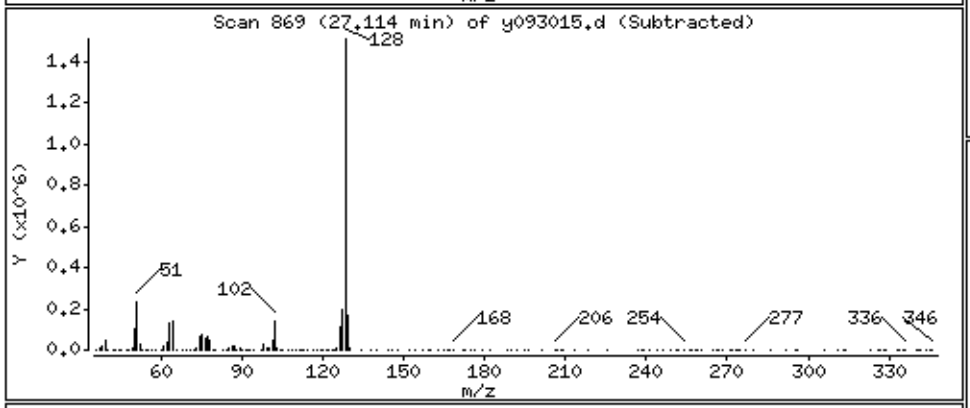
Column phase: RTx-624

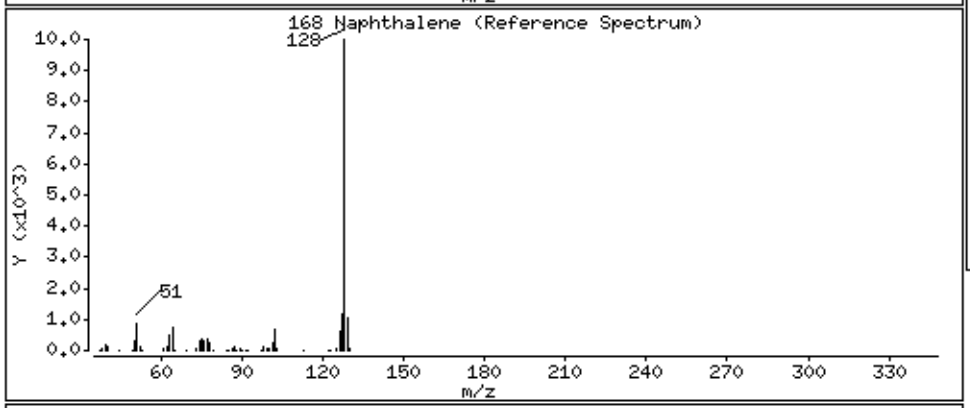
Column diameter: 0.53

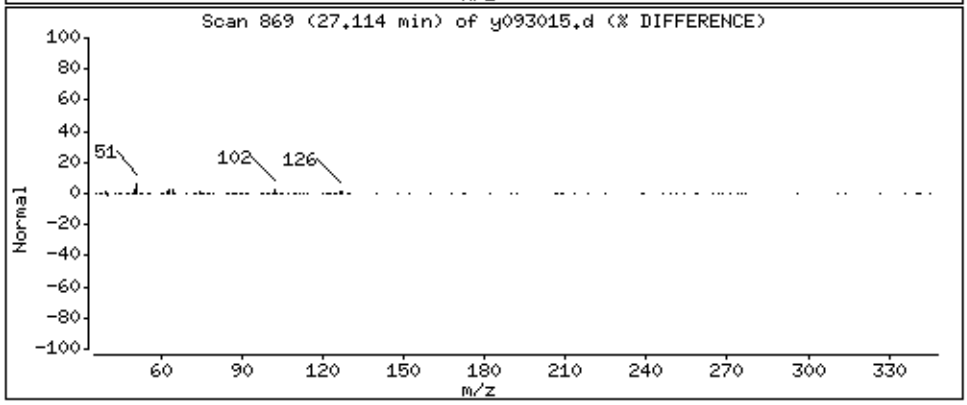
168 Naphthalene

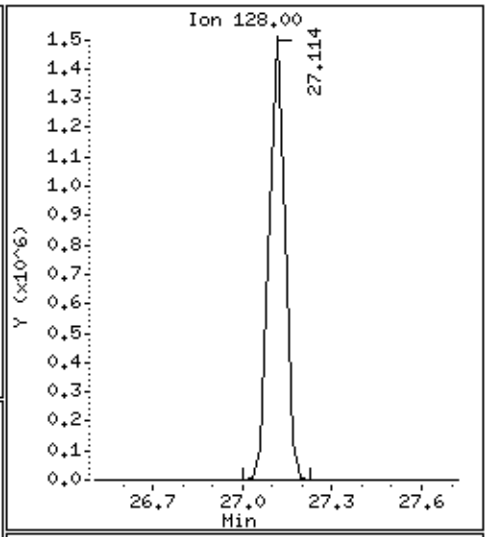
Concentration: 49.298 PPBV

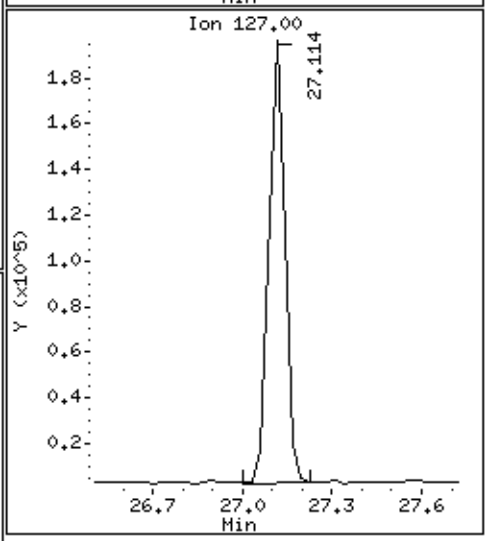












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

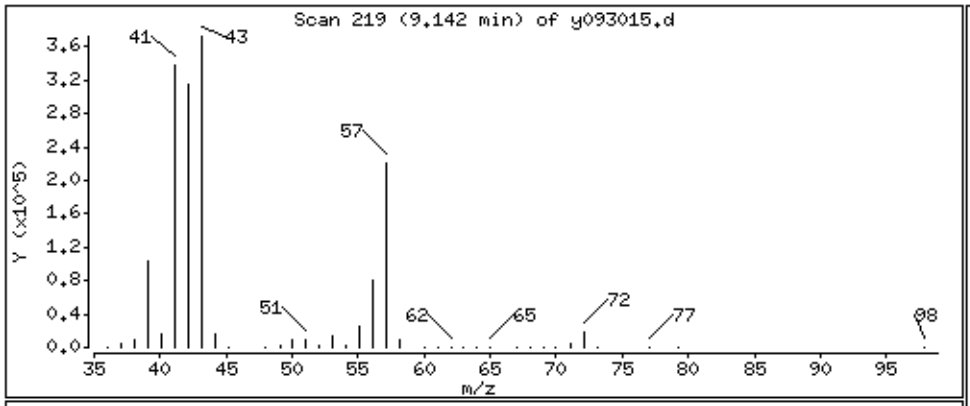
Operator: db

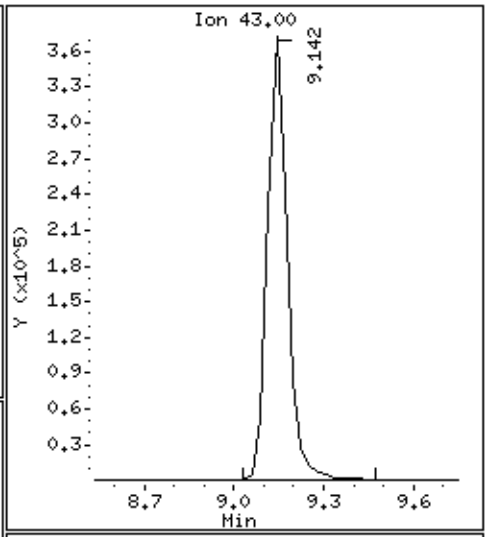
Column phase: RTx-624

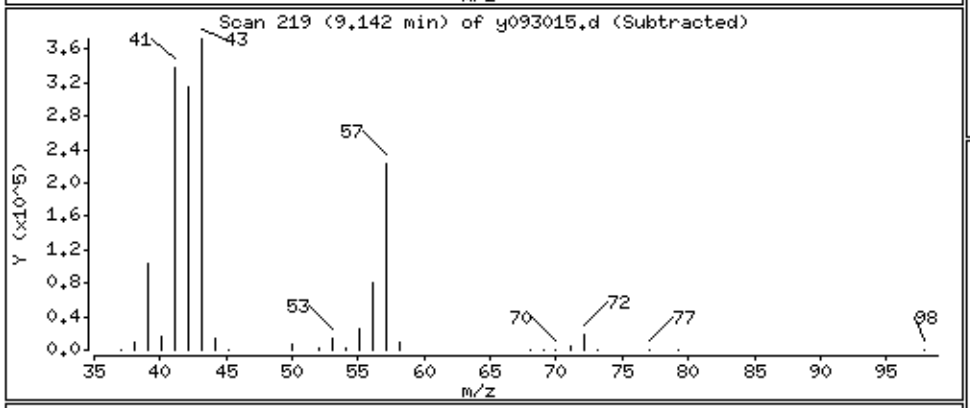
Column diameter: 0.53

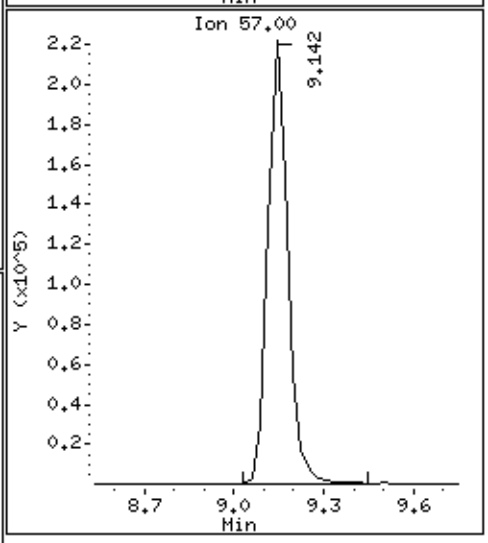
29 Isopentane

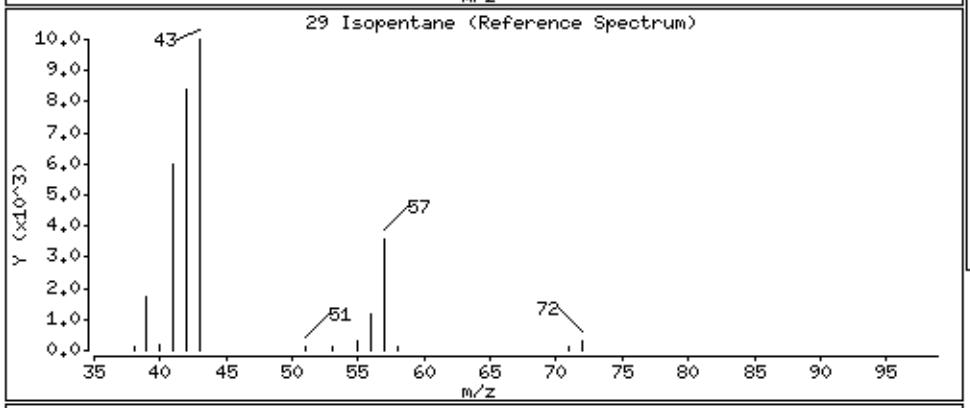
Concentration: 50.083 PPBV

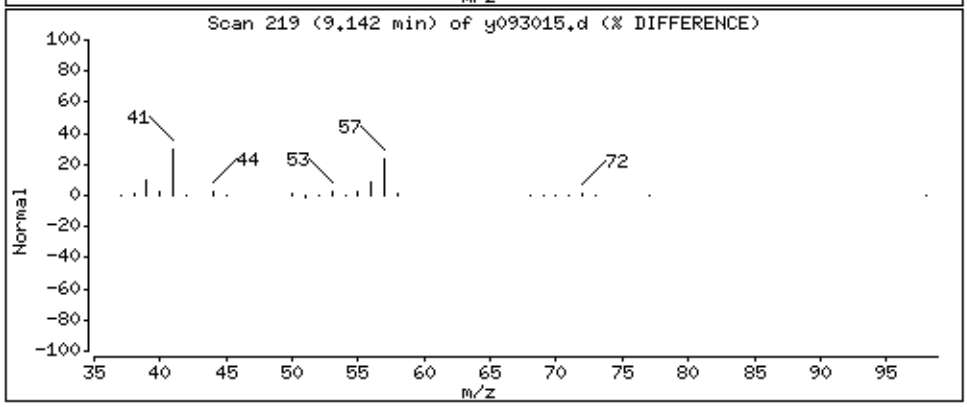












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

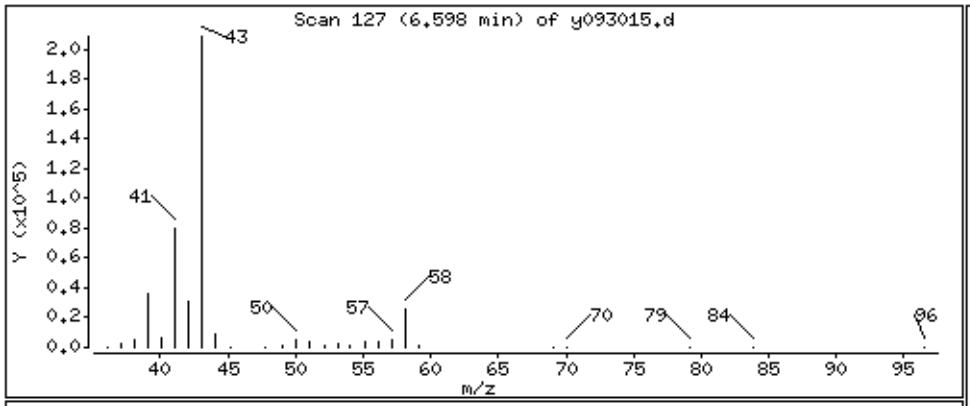
Operator: db

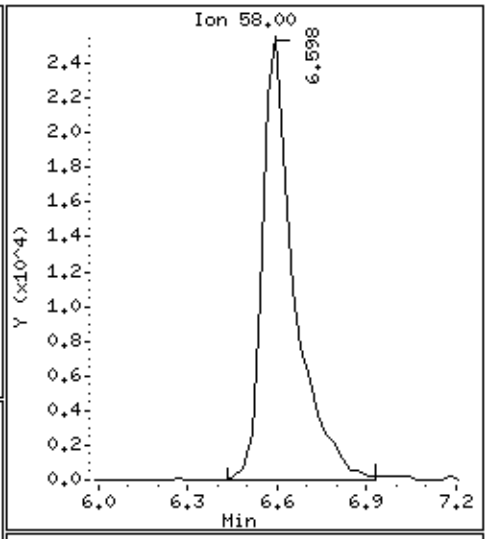
Column phase: RTx-624

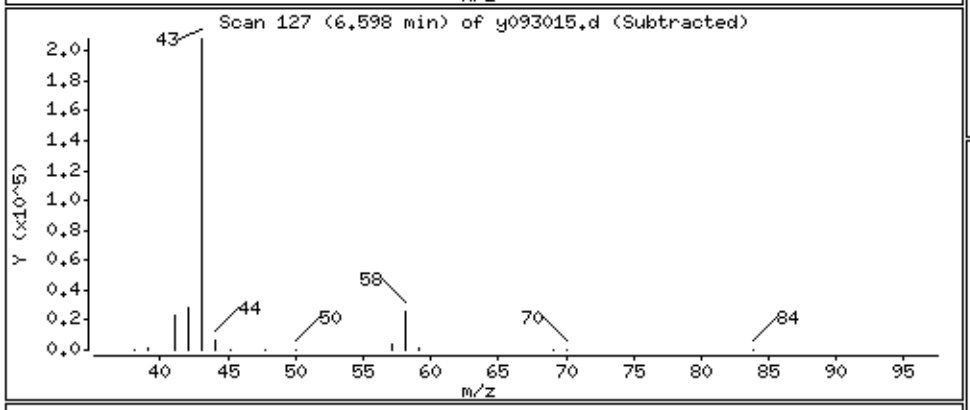
Column diameter: 0.53

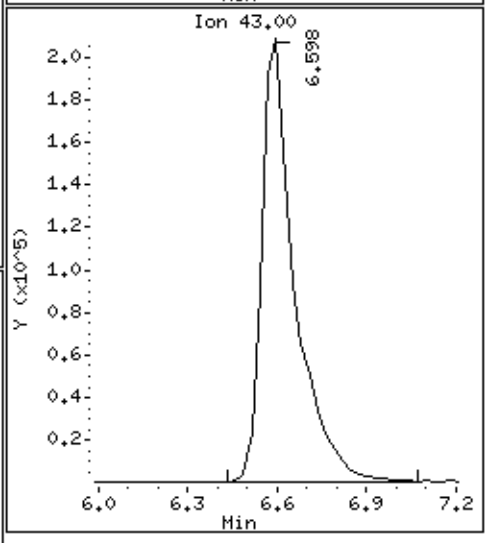
20 Butane

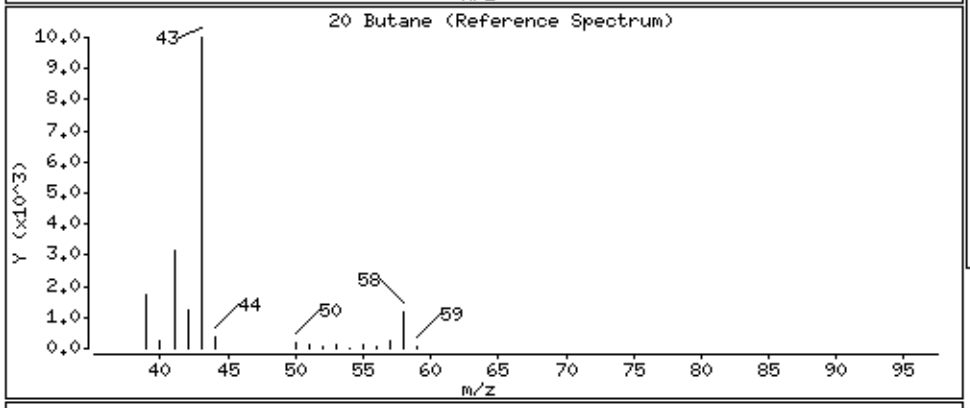
Concentration: 50.080 PPBV

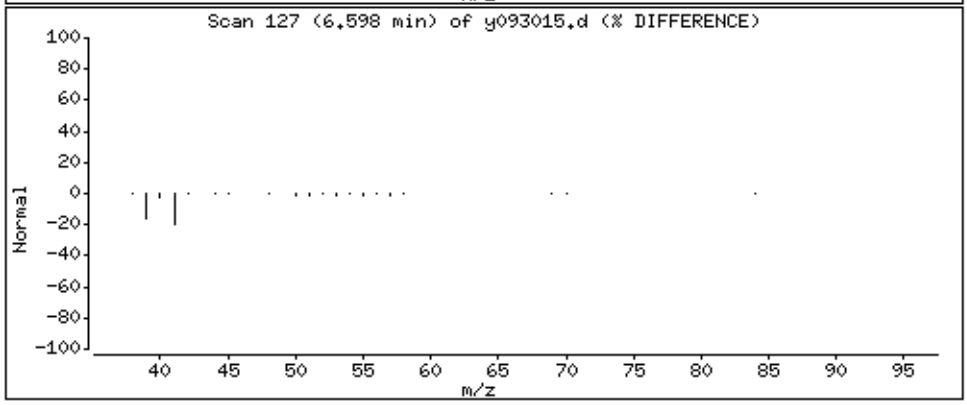












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

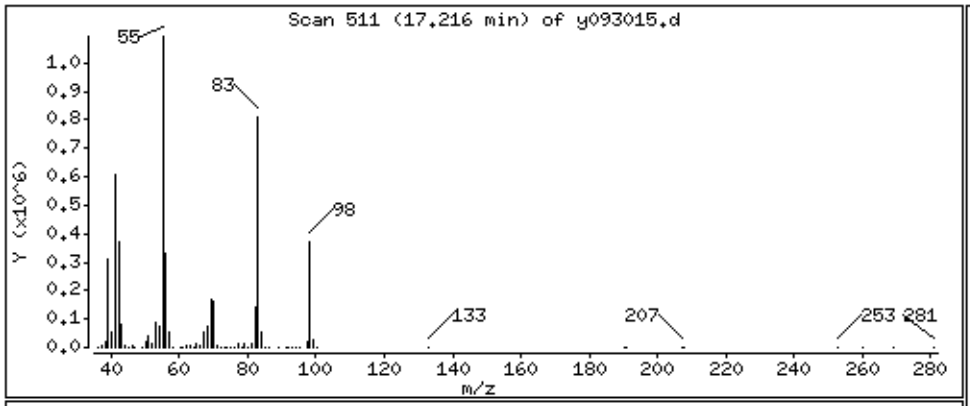
Operator: db

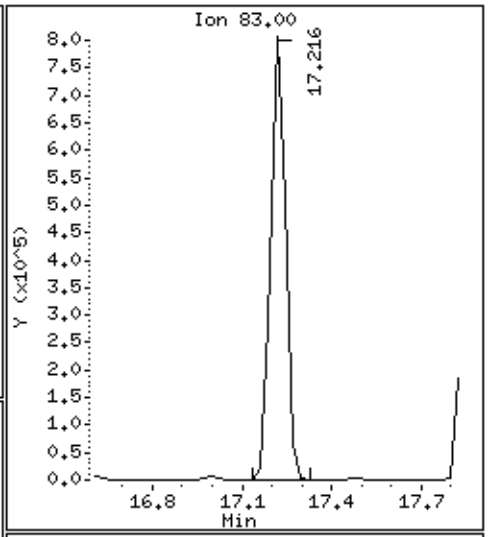
Column phase: RTx-624

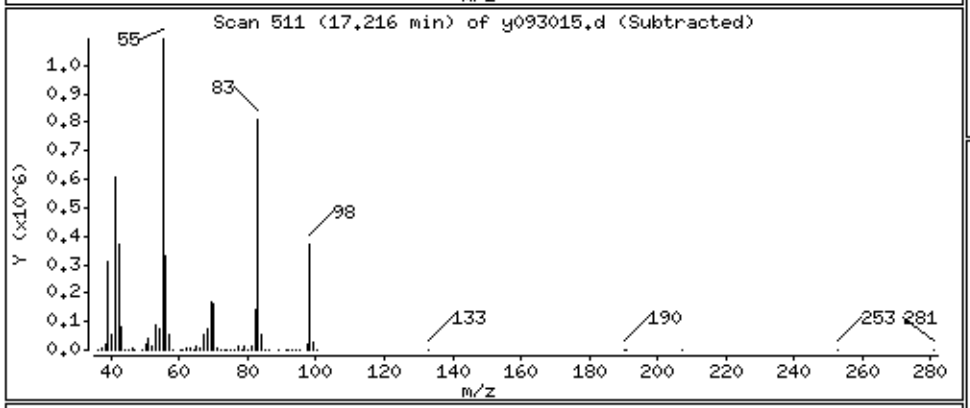
Column diameter: 0.53

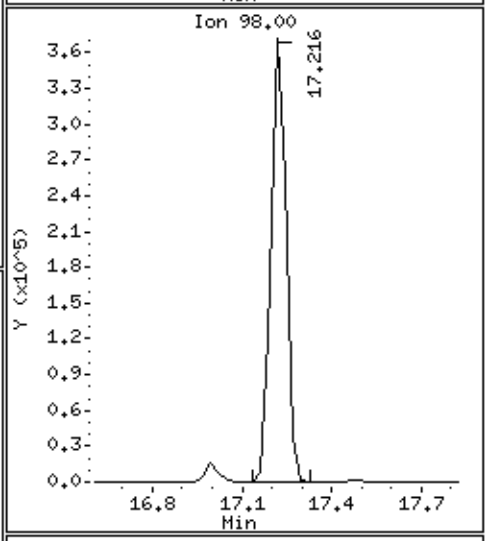
99 Methyl Cyclohexane

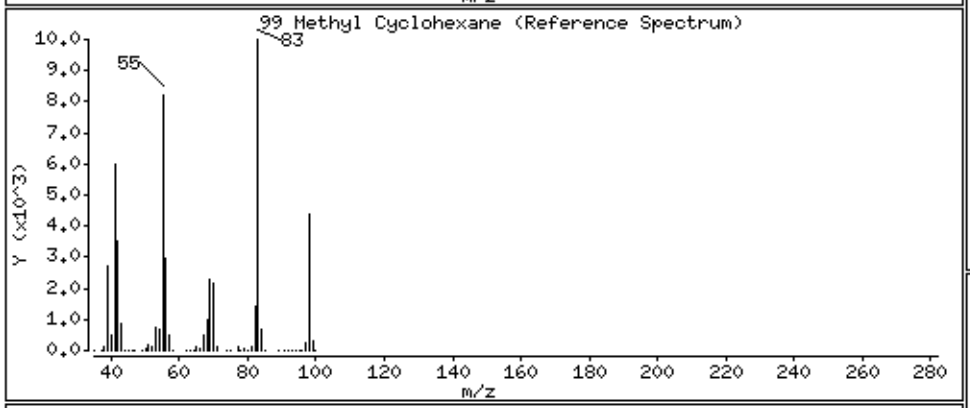
Concentration: 52.006 PPBV

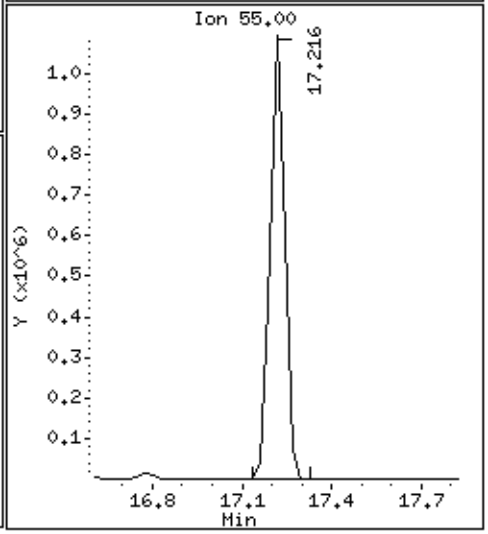


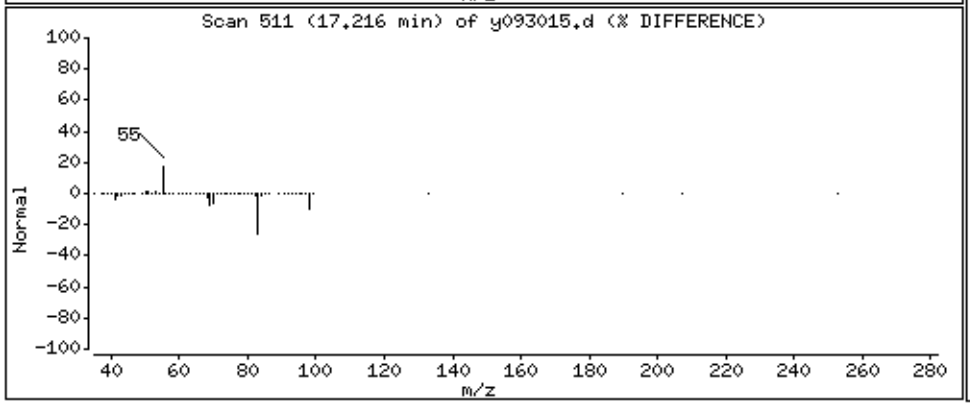












Data File: /chem/msdy.i/30sep08.b/y093015.d

Date : 01-OCT-2008 09:30

Client ID: LCS-Curve

Instrument: msdy.i

Sample Info: 50mL #1612-164

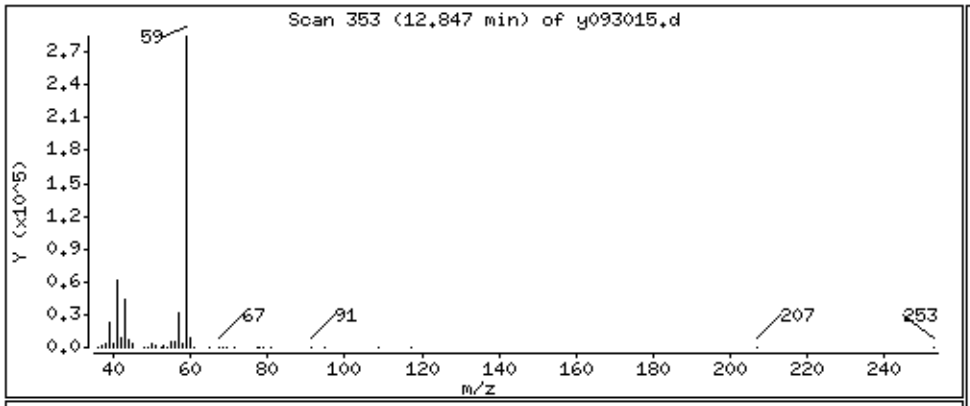
Operator: db

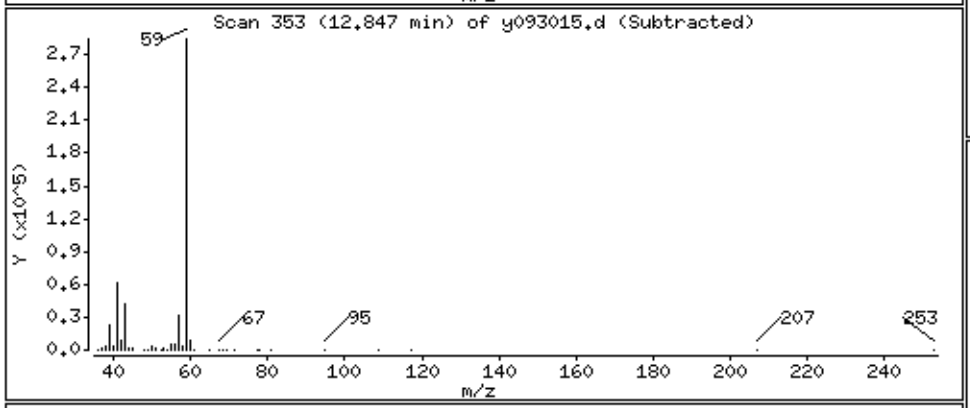
Column phase: RTx-624

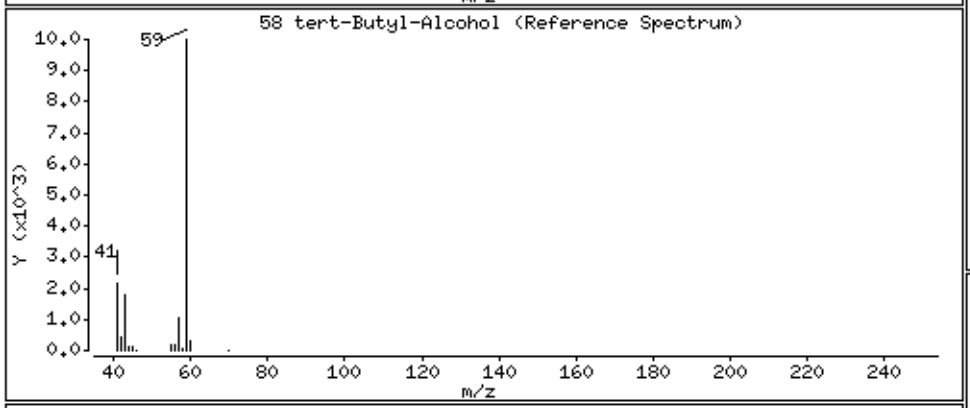
Column diameter: 0.53

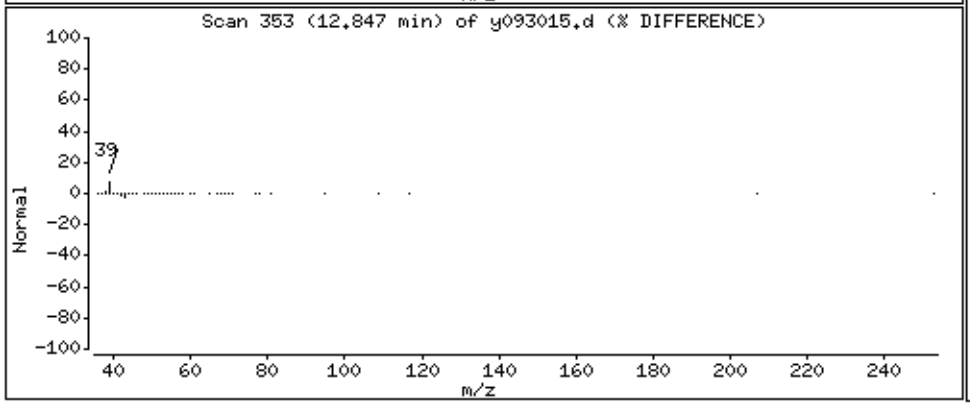
58 tert-Butyl-Alcohol

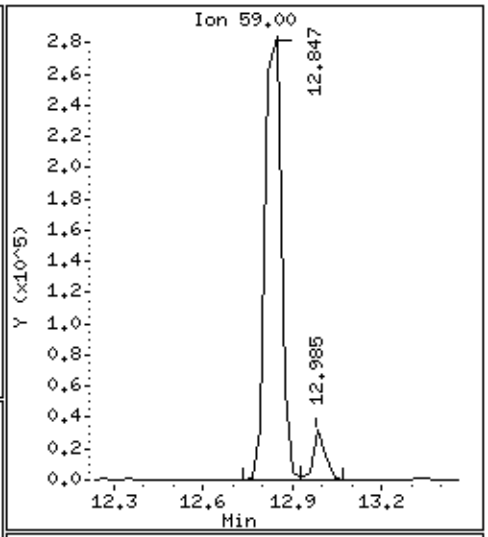
Concentration: 45.263 PPBV

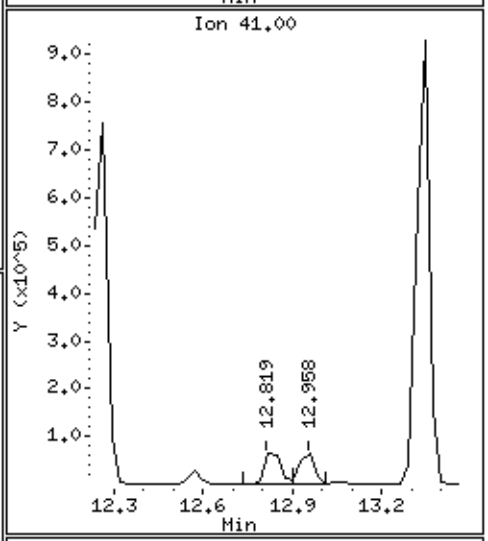


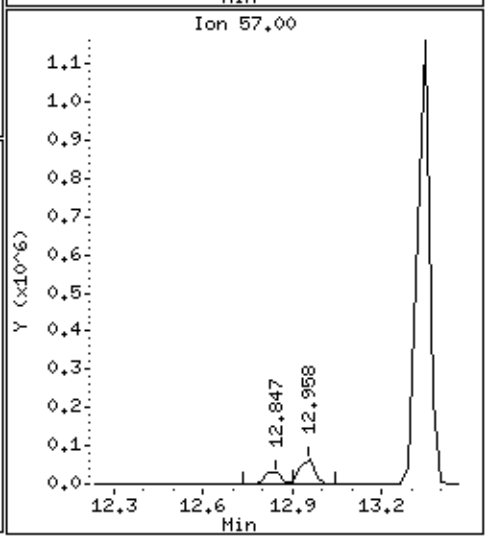












Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdy.i/30sep08.b/y093006.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 30-SEP-2008 19:11
Operator : kr Inst ID: msdy.i
Smp Info : 0.3ml #1612-158
Misc Info : 200ppbv->0.3ppbv
Comment :
Method : /chem/msdy.i/30sep08.b/t14q930a.m
Meth Date : 01-Oct-2008 07:50 dpage Quant Type: ISTD
Cal Date : 30-SEP-2008 19:11 Cal File: y093006.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AFCEElow.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 80 Bromochloromethane					CAS #: 74-97-5		
15.142	15.142 (1.000)	130	387751	25.0000		50.00- 150.00	100.00
15.142	15.142 (1.000)	128	301692			28.44- 128.44	77.81
15.142	15.142 (1.000)	49	1173304			256.20- 356.20	302.59
* 95 1,4-Difluorobenzene					CAS #: 540-36-3		
16.607	16.607 (1.000)	114	1882050	25.0000		50.00- 150.00	100.00
16.607	16.607 (1.000)	88	338918			0.00- 68.05	18.01
* 123 Chlorobenzene-d5					CAS #: 3114-55-4		
20.948	20.948 (1.000)	117	1778116	25.0000		50.00- 150.00	100.00
20.948	20.948 (1.000)	82	1129432			13.32- 113.32	63.52
$ 89 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.027	16.027 (1.058)	65	808634	25.0000	24.239	50.00- 150.00	100.00
16.027	16.027 (1.058)	67	379462			0.00- 96.20	46.93
$ 111 Toluene-d8					CAS #: 2037-26-5		
18.875	18.875 (1.137)	98	1931943	25.0000	24.792	50.00- 150.00	100.00
18.875	18.875 (1.137)	70	232037			0.00- 62.19	12.01

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 111 Toluene-d8 (continued)							
18.875	18.875 (1.137)	100	1329988			18.83- 118.83	68.84
$ 135 Bromofluorobenzene					CAS #: 460-00-4		
22.497	22.497 (1.074)	174	955875	25.0000	24.664	50.00- 150.00	100.00
22.497	22.497 (1.074)	95	1541866			112.09- 212.09	161.30
22.497	22.497 (1.074)	176	907207			46.24- 146.24	94.91
23 1,3-Butadiene					CAS #: 106-99-0		
6.958	6.985 (0.459)	54	6412	0.30000	0.3443	50.00- 150.00	100.00
6.958	6.985 (0.459)	39	13938			86.43- 186.43	217.38
82 Chloroform					CAS #: 67-66-3		
15.225	15.225 (1.005)	83	14851	0.30000	0.2595	50.00- 150.00	100.00
15.225	15.225 (1.005)	85	10305			15.32- 115.32	69.39
130 Styrene					CAS #: 100-42-5		
21.778	21.778 (1.040)	104	36728	0.30000	0.3643	50.00- 150.00	100.00
21.778	21.778 (1.040)	78	20687			4.23- 104.23	56.33
133 Cumene					CAS #: 98-82-8		
22.192	22.193 (1.059)	105	76365	0.30000	0.4082	50.00- 150.00	100.00
22.192	22.193 (1.059)	120	18486			0.00- 75.11	24.21
22.192	22.193 (1.059)	51	14362			0.00- 67.68	18.81
122 1,2-Dibromoethane					CAS #: 106-93-4		
20.395	20.395 (0.974)	107	21719	0.30000	0.3617	50.00- 150.00	100.00
20.395	20.395 (0.974)	109	19270			46.04- 146.04	88.73
149 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
23.464	23.464 (1.120)	105	70328	0.30000	0.4418	50.00- 150.00	100.00
23.464	23.464 (1.120)	120	30163			0.00- 93.08	42.89
144 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
22.967	22.967 (1.096)	105	84666	0.30000	0.4196	50.00- 150.00	100.00
22.967	22.967 (1.096)	120	39064			0.00- 93.95	46.14

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y093006.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msdy.i/30sep08.b/t14q930a.m
Misc Info: 200ppbv->0.3ppbv

Calibration Date: 30-SEP-2008
Calibration Time: 22:22
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	366277	219766	512788	387751	5.86
95 1,4-Difluorobenze	1847900	1108740	2587060	1882050	1.85
123 Chlorobenzene-d5	1826829	1096097	2557561	1778116	-2.67

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	15.14	14.81	15.47	15.14	0.00
95 1,4-Difluorobenze	16.61	16.28	16.94	16.61	0.00
123 Chlorobenzene-d5	20.95	20.62	21.28	20.95	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.

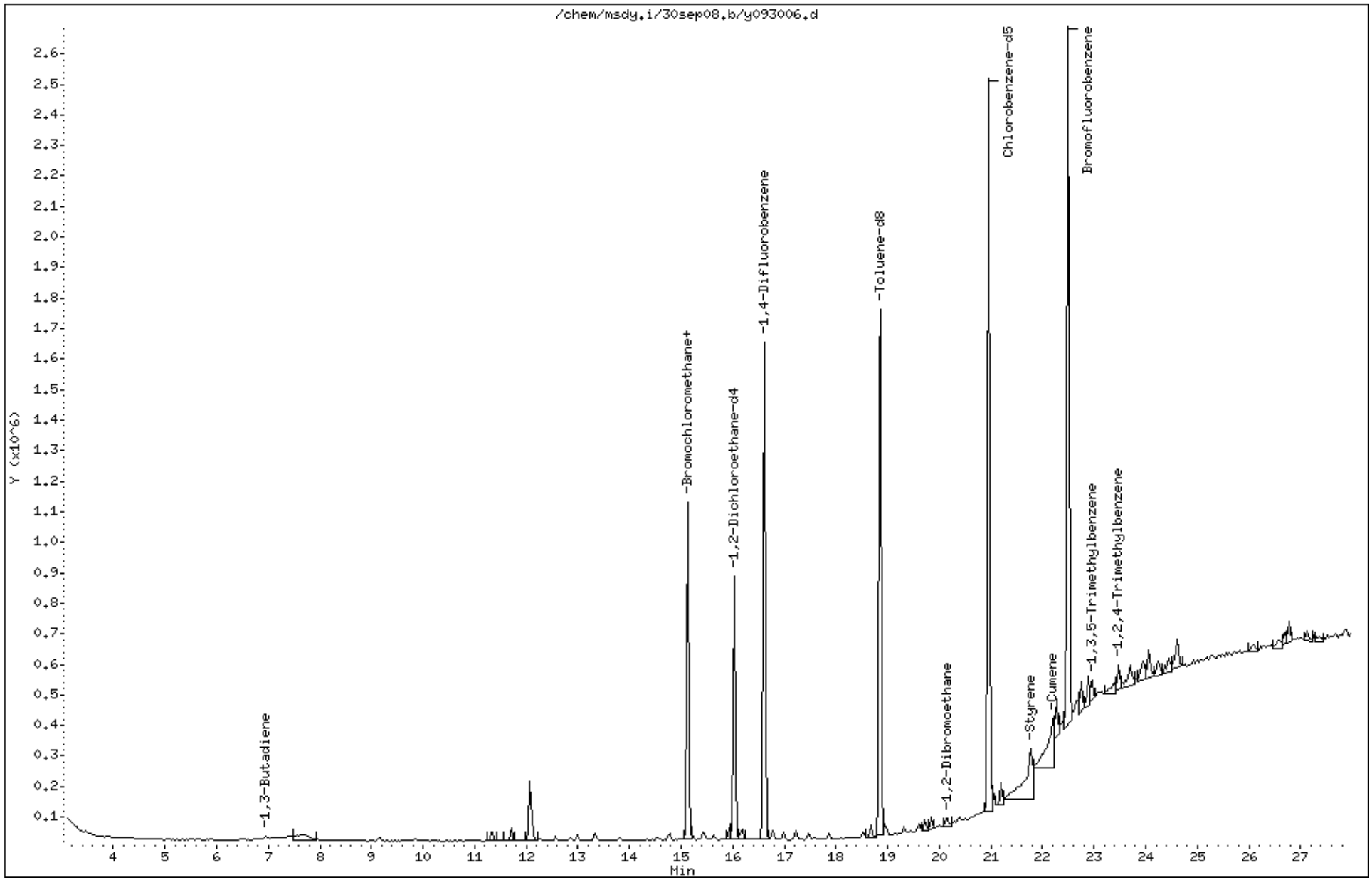
0148

Data File: /chem/msdy.i/30sep08.b/y093006.d
Date : 30-SEP-2008 19:11
Client ID: Level 1
Sample Info: 0.3ml #1612-158

Instrument: msdy.i

Operator: kr
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdy.i/30sep08.b/y093007.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 30-SEP-2008 19:57
Operator : kr Inst ID: msdy.i
Smp Info : 0.5ml #1612-158
Misc Info : 200ppbv->0.5ppbv
Comment :
Method : /chem/msdy.i/30sep08.b/t14q930a.m
Meth Date : 01-Oct-2008 07:36 dpage Quant Type: ISTD
Cal Date : 30-SEP-2008 19:57 Cal File: y093007.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08low.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 80 Bromochloromethane						CAS #: 74-97-5	
15.142	15.142 (1.000)	130	375139	25.0000		50.00- 150.00	100.00
15.142	15.142 (1.000)	128	292153			27.95- 127.95	77.88
15.142	15.142 (1.000)	49	1133206			253.49- 353.49	302.08
* 95 1,4-Difluorobenzene						CAS #: 540-36-3	
16.607	16.607 (1.000)	114	1845151	25.0000		50.00- 150.00	100.00
16.607	16.607 (1.000)	88	334117			0.00- 68.11	18.11
* 123 Chlorobenzene-d5						CAS #: 3114-55-4	
20.948	20.948 (1.000)	117	1771407	25.0000		50.00- 150.00	100.00
20.948	20.948 (1.000)	82	1120331			13.27- 113.27	63.25
$ 89 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
16.027	16.027 (1.058)	65	788093	25.0000	24.860	50.00- 150.00	100.00
16.027	16.027 (1.058)	67	366437			0.00- 96.33	46.50
$ 111 Toluene-d8						CAS #: 2037-26-5	
18.875	18.875 (1.137)	98	1892456	25.0000	24.884	50.00- 150.00	100.00
18.847	18.847 (1.135)	70	233175			0.00- 62.14	12.32

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 111 Toluene-d8 (continued)							
18.875	18.875 (1.137)	100	1303767			18.92- 118.92	68.89
$ 135 Bromofluorobenzene					CAS #: 460-00-4		
22.497	22.497 (1.074)	174	933139	25.0000	24.538	50.00- 150.00	100.00
22.497	22.497 (1.074)	95	1524818			111.50- 211.50	163.41
22.497	22.497 (1.074)	176	910784			45.92- 145.92	97.60
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.331	4.331 (0.286)	85	19774	0.50000	0.5195	50.00- 150.00	100.00
4.248	4.248 (0.281)	87	8198			0.00- 86.80	41.46
11 Freon 114					CAS #: 76-14-2		
5.603	5.603 (0.370)	135	9798	0.50000	0.4790	50.00- 150.00	100.00(a)
5.603	5.603 (0.370)	137	2163			0.00- 76.49	22.08
22 Vinyl Chloride					CAS #: 75-01-4		
6.709	6.709 (0.443)	62	9028	0.50000	0.5211	50.00- 150.00	100.00
6.709	6.709 (0.443)	64	2684			0.00- 79.67	29.73
23 1,3-Butadiene					CAS #: 106-99-0		
6.958	6.958 (0.459)	54	11808	0.50000	0.5865	50.00- 150.00	100.00
6.958	6.958 (0.459)	39	15831			104.81- 204.81	134.07
25 Bromomethane					CAS #: 74-83-9		
8.506	8.506 (0.562)	94	4771	0.50000	0.4776	50.00- 150.00	100.00(a)
8.506	8.506 (0.562)	96	5531			55.42- 155.42	115.92
28 Chloroethane					CAS #: 75-00-3		
9.031	9.031 (0.596)	64	4181	0.50000	0.4809	50.00- 150.00	100.00(a)
9.031	9.031 (0.596)	49	1567			0.00- 88.08	37.48
9.004	9.004 (0.595)	66	2581			0.00- 94.87	61.72
33 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.833	9.833 (0.649)	101	21193	0.50000	0.4863	50.00- 150.00	100.00(a)
9.833	9.833 (0.649)	103	15321			18.16- 118.16	72.29
44 Freon 113					CAS #: 76-13-1		
11.354	11.354 (0.750)	151	15453	0.50000	0.5811	50.00- 150.00	100.00
11.354	11.354 (0.750)	153	9917			13.36- 113.36	64.18
11.354	11.354 (0.750)	101	19244			78.60- 178.60	124.53
42 1,1-Dichloroethene					CAS #: 75-35-4		
11.326	11.326 (0.748)	61	31660	0.50000	0.5576	50.00- 150.00	100.00
11.326	11.326 (0.748)	96	14922			0.00- 93.26	47.13
11.354	11.354 (0.750)	98	10373			0.00- 78.73	32.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Carbon Disulfide					CAS #: 75-15-0		
11.713	11.713 (0.774)	76	26806	0.50000	0.4811	50.00- 150.00	100.00(a)
56 Methylene Chloride					CAS #: 75-09-2		
12.571	12.571 (0.830)	49	25819	0.50000	0.5328	50.00- 150.00	100.00
12.571	12.571 (0.830)	84	11581			0.00- 91.94	44.86
12.571	12.571 (0.830)	51	8664			0.00- 81.83	33.56
60 MTBE					CAS #: 1634-04-4		
12.958	12.958 (0.856)	73	9954	0.50000	0.5935	50.00- 150.00	100.00
12.958	12.958 (0.856)	57	5277			0.00- 94.18	53.02
12.958	12.958 (0.856)	41	4099			0.00- 88.31	41.18
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
12.985	12.985 (0.858)	96	12487	0.50000	0.4966	50.00- 150.00	100.00(a)
12.985	12.985 (0.858)	61	26421			164.67- 264.67	211.58
12.985	12.985 (0.858)	98	8454			15.83- 115.83	67.70
65 Hexane					CAS #: 110-54-3		
13.345	13.345 (0.881)	57	34535	0.50000	0.4923	50.00- 150.00	100.00(a)
13.345	13.345 (0.881)	43	24405			21.89- 121.89	70.67
13.345	13.345 (0.881)	86	4057			0.00- 61.41	11.75
67 1,1-Dichloroethane					CAS #: 75-34-3		
13.815	13.815 (0.912)	63	22549	0.50000	0.4133	50.00- 150.00	100.00(a)
13.815	13.815 (0.912)	65	6549			0.00- 79.40	29.05
75 2-Butanone					CAS #: 78-93-3		
14.783	14.783 (0.976)	72	6858	0.50000	0.4745	50.00- 150.00	100.00(a)
14.783	14.783 (0.976)	43	46539			655.23- 755.23	678.52
14.783	14.783 (0.976)	57	4699			9.21- 109.21	68.52
74 cis-1,2-Dichloroethene					CAS #: 156-59-2		
14.755	14.755 (0.974)	61	25300	0.50000	0.4849	50.00- 150.00	100.00(a)
14.755	14.755 (0.974)	96	12895			1.18- 101.18	50.97
14.755	14.755 (0.974)	98	8723			0.00- 83.56	34.48
79 Tetrahydrofuran					CAS #: 109-99-9		
15.142	15.142 (1.000)	42	28796	0.50000	0.4650	50.00- 150.00	100.00(a)
15.142	15.142 (1.000)	71	6548			0.00- 71.89	22.74
15.142	15.142 (1.000)	72	6277			0.00- 72.33	21.80
82 Chloroform					CAS #: 67-66-3		
15.225	15.225 (1.005)	83	28960	0.50000	0.5303	50.00- 150.00	100.00
15.225	15.225 (1.005)	85	19027			16.30- 116.30	65.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
84 1,1,1-Trichloroethane						CAS #: 71-55-6	
15.446	15.446 (1.020)	97	14151	0.50000	0.3533	50.00- 150.00	100.00(a)
15.446	15.446 (1.020)	99	10090			17.32- 117.32	71.30
83 Cyclohexane						CAS #: 110-82-7	
15.418	15.418 (1.018)	84	21251	0.50000	0.5216	50.00- 150.00	100.00
15.418	15.418 (1.018)	56	38974			137.01- 237.01	183.39
15.418	15.418 (1.018)	41	23409			62.57- 162.57	110.15
85 Carbon Tetrachloride						CAS #: 56-23-5	
15.640	15.640 (1.033)	119	23910	0.50000	0.4765	50.00- 150.00	100.00(a)
15.640	15.640 (1.033)	117	23238			51.16- 151.16	97.19
90 Benzene						CAS #: 71-43-2	
15.999	15.999 (0.963)	78	57571	0.50000	0.3596	50.00- 150.00	100.00(a)
16.027	16.027 (0.965)	77	13854			0.00- 72.71	24.06
88 2,2,4-Trimethylpentane						CAS #: 540-84-1	
15.916	15.916 (1.051)	57	118729	0.50000	0.4946	50.00- 150.00	100.00(a)
15.916	15.916 (1.051)	56	36605			0.00- 81.61	30.83
15.916	15.916 (1.051)	41	38049			0.00- 80.24	32.05
92 1,2-Dichloroethane						CAS #: 107-06-2	
16.137	16.137 (0.972)	62	26152	0.50000	0.4844	50.00- 150.00	100.00(a)
16.137	16.137 (0.972)	64	8996			0.00- 82.55	34.40
94 Heptane						CAS #: 142-82-5	
16.193	16.193 (0.975)	71	20709	0.50000	0.5451	50.00- 150.00	100.00
16.193	16.193 (0.975)	43	56961			241.71- 341.71	275.05
16.193	16.193 (0.975)	57	25668			82.02- 182.02	123.94
97 Trichloroethene						CAS #: 79-01-6	
16.994	16.994 (1.023)	95	21016	0.50000	0.5218	50.00- 150.00	100.00
16.994	16.994 (1.023)	130	19378			42.03- 142.03	92.21
16.994	16.994 (1.023)	97	15184			18.51- 118.51	72.25
101 1,2-Dichloropropane						CAS #: 78-87-5	
17.465	17.465 (1.052)	63	21399	0.50000	0.4912	50.00- 150.00	100.00(a)
17.465	17.465 (1.052)	62	16581			24.76- 124.76	77.49
17.465	17.465 (1.052)	41	18589			32.04- 132.04	86.87
105 Bromodichloromethane						CAS #: 75-27-4	
17.852	17.852 (1.075)	83	31798	0.50000	0.4920	50.00- 150.00	100.00(a)
17.852	17.852 (1.075)	85	21847			16.16- 116.16	68.70
109 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
18.515	18.515 (1.115)	75	26301	0.50000	0.4830	50.00- 150.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
109 cis-1,3-Dichloropropene (continued)							
18.515	18.515 (1.115)	77	8235			0.00- 81.34	31.31
18.515	18.515 (1.115)	39	20350			31.21- 131.21	77.37
110 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.681	18.681 (1.125)	58	25903	0.50000	0.5114	50.00- 150.00	100.00
18.681	18.681 (1.125)	43	75366			245.11- 345.11	290.95
18.681	18.681 (1.125)	85	9519			0.00- 83.00	36.75
112 Toluene					CAS #: 108-88-3		
18.958	18.958 (1.141)	91	56766	0.50000	0.5029	50.00- 150.00	100.00
18.958	18.958 (1.141)	92	36184			12.17- 112.17	63.74
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.317	19.317 (0.922)	75	19645	0.50000	0.4010	50.00- 150.00	100.00(a)
19.317	19.317 (0.922)	77	6403			0.00- 81.98	32.60
19.317	19.317 (0.922)	39	16920			32.53- 132.53	86.13
116 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.594	19.594 (0.935)	97	19883	0.50000	0.5077	50.00- 150.00	100.00
19.594	19.594 (0.935)	99	13215			14.08- 114.08	66.47
19.594	19.594 (0.935)	83	17738			37.31- 137.31	89.22
117 Tetrachloroethene					CAS #: 127-18-4		
19.704	19.704 (0.941)	166	26381	0.50000	0.5356	50.00- 150.00	100.00
19.704	19.704 (0.941)	129	22300			29.96- 129.96	84.53
19.704	19.704 (0.941)	131	18782			22.41- 122.41	71.20
121 Dibromochloromethane					CAS #: 124-48-1		
20.174	20.174 (0.963)	129	31311	0.50000	0.5166	50.00- 150.00	100.00
20.174	20.174 (0.963)	127	24476			28.46- 128.46	78.17
122 1,2-Dibromoethane					CAS #: 106-93-4		
20.395	20.395 (0.974)	107	29822	0.50000	0.4639	50.00- 150.00	100.00(a)
20.395	20.395 (0.974)	109	33997			48.84- 148.84	114.00
124 Chlorobenzene					CAS #: 108-90-7		
21.004	21.004 (1.003)	112	58350	0.50000	0.5492	50.00- 150.00	100.00
21.004	21.004 (1.003)	114	19853			0.00- 82.65	34.02
20.976	20.976 (1.001)	77	61739			42.64- 142.64	105.81
125 Ethyl Benzene					CAS #: 100-41-4		
21.059	21.059 (1.005)	106	29682	0.50000	0.5329	50.00- 150.00	100.00
21.059	21.059 (1.005)	91	97355			279.17- 379.17	327.98
128 m,p-Xylene					CAS #: 108-38-3		
21.197	21.197 (1.012)	106	36147	0.50000	0.5224	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
128 m,p-Xylene (continued)							
21.197	21.197 (1.012)	91	75005			159.10- 259.10	207.49
129 o-Xylene					CAS #: 95-47-6		
21.750	21.750 (1.038)	106	34294	0.50000	0.5328	50.00- 150.00	100.00
21.750	21.750 (1.038)	91	77700			174.27- 274.27	226.57
130 Styrene					CAS #: 100-42-5		
21.778	21.778 (1.040)	104	51729	0.50000	0.4716	50.00- 150.00	100.00(a)
21.778	21.778 (1.040)	78	27187			4.06- 104.06	52.56
132 Bromoform					CAS #: 75-25-2		
22.137	22.137 (1.057)	173	26974	0.50000	0.4808	50.00- 150.00	100.00(a)
22.137	22.137 (1.057)	171	15112			3.72- 103.72	56.02
133 Cumene					CAS #: 98-82-8		
22.193	22.193 (1.059)	105	101455	0.50000	0.4766	50.00- 150.00	100.00(a)
22.193	22.193 (1.059)	120	25898			0.00- 74.89	25.53
22.193	22.193 (1.059)	51	20254			0.00- 68.43	19.96
136 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
22.663	22.663 (1.082)	83	37820	0.50000	0.4428	50.00- 150.00	100.00(a)
22.663	22.663 (1.082)	85	22651			11.79- 111.79	59.89
139 Propylbenzene					CAS #: 103-65-1		
22.746	22.746 (1.086)	91	121189	0.50000	0.5052	50.00- 150.00	100.00
22.746	22.746 (1.086)	120	27419			0.00- 71.67	22.63
22.746	22.746 (1.086)	105	7626			0.00- 54.96	6.29
142 4-Ethyltoluene					CAS #: 622-96-8		
22.884	22.884 (1.092)	105	101562	0.50000	0.4992	50.00- 150.00	100.00(a)
22.884	22.884 (1.092)	120	29745			0.00- 78.60	29.29
144 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
22.967	22.967 (1.096)	105	98002	0.50000	0.4350	50.00- 150.00	100.00(a)
22.967	22.967 (1.096)	120	42269			0.00- 94.20	43.13
149 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
23.464	23.464 (1.120)	105	73211	0.50000	0.4084	50.00- 150.00	100.00(a)
23.464	23.464 (1.120)	120	31263			0.00- 93.03	42.70
154 1,3-Dichlorobenzene					CAS #: 541-73-1		
23.934	23.934 (1.143)	146	38072	0.50000	0.4517	50.00- 150.00	100.00(a)
23.934	23.934 (1.143)	148	23212			11.87- 111.87	60.97
23.934	23.934 (1.143)	111	17409			0.00- 95.77	45.73

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.073	24.073 (1.149)	146	39895	0.50000	0.4656	50.00- 150.00	100.00(a)
24.073	24.073 (1.149)	148	23136			10.70- 110.70	57.99
24.073	24.073 (1.149)	111	20090			0.00- 97.16	50.36
158 alpha-Chlorotoluene					CAS #: 100-44-7		
24.239	24.239 (1.157)	91	44585	0.50000	0.3704	50.00- 150.00	100.00(a)
24.239	24.239 (1.157)	126	11934			0.00- 72.94	26.77
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
24.570	24.570 (1.173)	146	36925	0.50000	0.4741	50.00- 150.00	100.00(a)
24.570	24.570 (1.173)	148	22372			11.73- 111.73	60.59
24.570	24.570 (1.173)	111	15589			0.00- 94.63	42.22
166 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
26.699	26.699 (1.275)	180	16880	0.50000	0.3096	50.00- 150.00	100.00(a)
26.699	26.699 (1.275)	182	16848			46.67- 146.67	99.81
167 Hexachlorobutadiene					CAS #: 87-68-3		
26.782	26.782 (1.278)	225	22179	0.50000	0.5228	50.00- 150.00	100.00
26.782	26.782 (1.278)	223	14872			15.08- 115.08	67.06
99 Methyl Cyclohexane					CAS #: 108-87-2		
17.216	17.216 (1.137)	83	28560	0.50000	0.4993	50.00- 150.00	100.00(a)
17.216	17.216 (1.137)	98	15682			1.33- 101.33	54.91
17.216	17.216 (1.137)	55	37482			81.73- 181.73	131.24
168 Naphthalene					CAS #: 91-20-3		
27.114	27.114 (1.294)	128	40963	0.50000	0.3333	50.00- 150.00	100.00(a)
27.114	27.114 (1.294)	127	8901			0.00- 67.35	21.73

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y093007.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msdy.i/30sep08.b/t14q930a.m
Misc Info: 200ppbv->0.5ppbv

Calibration Date: 30-SEP-2008
Calibration Time: 22:22
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	366277	219766	512788	375139	2.42
95 1,4-Difluorobenze	1847900	1108740	2587060	1845151	-0.15
123 Chlorobenzene-d5	1826829	1096097	2557561	1771407	-3.03

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	15.14	14.81	15.47	15.14	0.00
95 1,4-Difluorobenze	16.61	16.28	16.94	16.61	0.00
123 Chlorobenzene-d5	20.95	20.62	21.28	20.95	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.

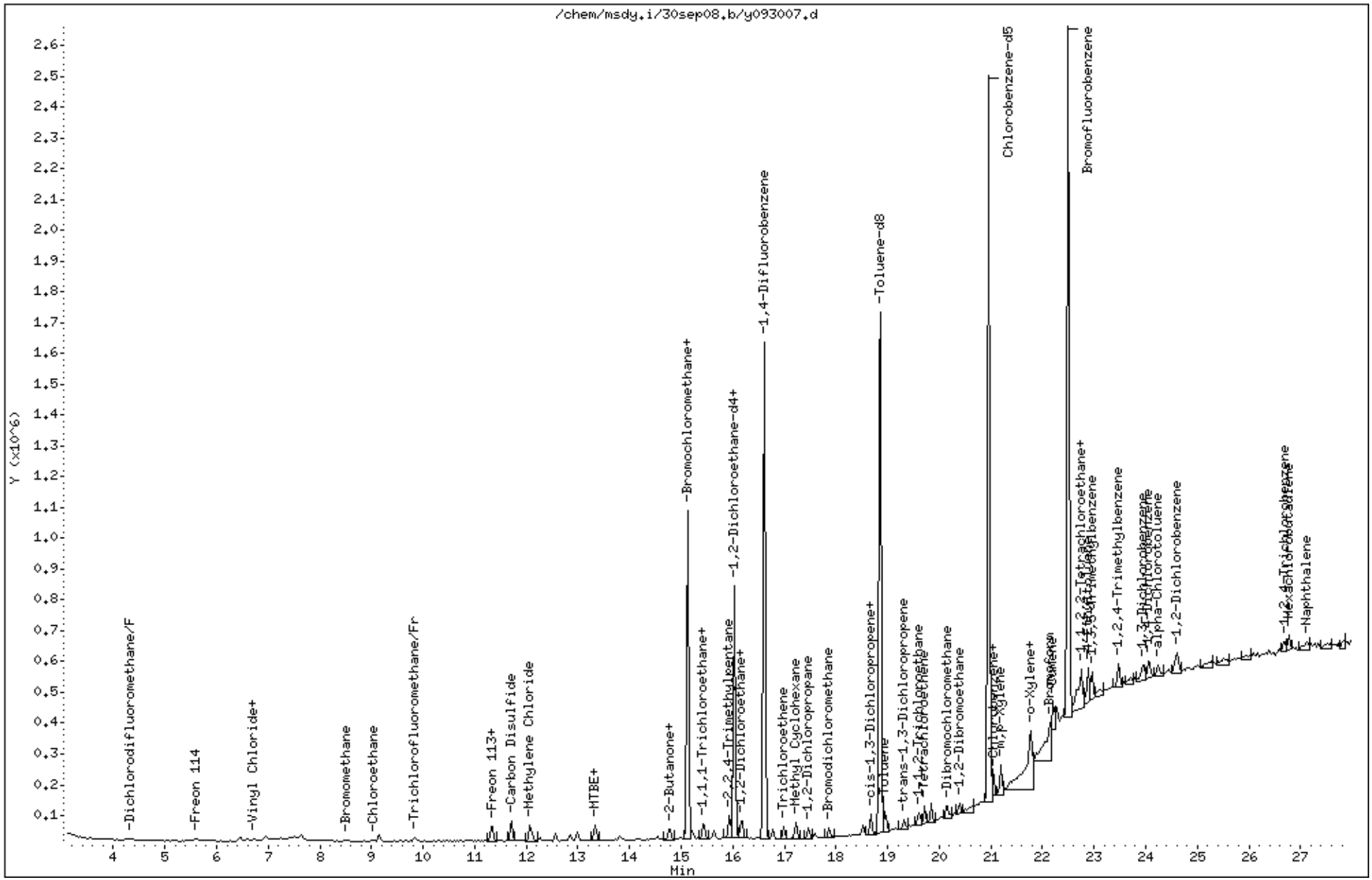
0157

Data File: /chem/msdy.i/30sep08.b/y093007.d
Date : 30-SEP-2008 19:57
Client ID: Level 2
Sample Info: 0.5ml #1612-158

Instrument: msdy.i

Operator: kr

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdy.i/30sep08.b/y093008.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 30-SEP-2008 20:33
Operator : kr Inst ID: msdy.i
Smp Info : 2.0ml #1612-158
Misc Info : 200ppbv->2ppbv
Comment :
Method : /chem/msdy.i/30sep08.b/t14q930a.m
Meth Date : 01-Oct-2008 07:50 dpage Quant Type: ISTD
Cal Date : 30-SEP-2008 20:33 Cal File: y093008.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 80 Bromochloromethane					CAS #: 74-97-5		
15.142	15.142 (1.000)	130	375189	25.0000		50.00- 150.00	100.00
15.142	15.142 (1.000)	128	289241			28.44- 128.44	77.09
15.142	15.142 (1.000)	49	1143533			256.20- 356.20	304.79
* 95 1,4-Difluorobenzene					CAS #: 540-36-3		
16.607	16.607 (1.000)	114	1819237	25.0000		50.00- 150.00	100.00
16.607	16.607 (1.000)	88	323558			0.00- 68.05	17.79
* 123 Chlorobenzene-d5					CAS #: 3114-55-4		
20.948	20.948 (1.000)	117	1758462	25.0000		50.00- 150.00	100.00
20.948	20.948 (1.000)	82	1117041			13.32- 113.32	63.52
$ 89 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.027	16.027 (1.058)	65	775774	25.0000	24.032	50.00- 150.00	100.00
16.027	16.027 (1.058)	67	360127			0.00- 96.20	46.42
$ 111 Toluene-d8					CAS #: 2037-26-5		
18.875	18.875 (1.137)	98	1898187	25.0000	25.200	50.00- 150.00	100.00
18.875	18.875 (1.137)	70	229882			0.00- 62.19	12.11

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 111 Toluene-d8 (continued)							
18.875	18.875 (1.137)	100	1297717			18.83- 118.83	68.37
$ 135 Bromofluorobenzene					CAS #: 460-00-4		
22.497	22.497 (1.074)	174	927186	25.0000	24.191	50.00- 150.00	100.00
22.497	22.497 (1.074)	95	1532703			112.09- 212.09	165.31
22.497	22.497 (1.074)	176	899873			46.24- 146.24	97.05
5 Propylene					CAS #: 115-07-1		
3.916	3.916 (0.259)	41	29034	2.00000	2.017	50.00- 150.00	100.00(M)
3.889	3.916 (0.257)	42	19037			19.93- 119.93	65.57
3.889	3.916 (0.257)	39	26941			38.66- 138.66	92.79
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.303	4.303 (0.284)	85	69386	2.00000	1.862	50.00- 150.00	100.00
4.303	4.303 (0.284)	87	22202			0.00- 83.90	32.00
11 Freon 114					CAS #: 76-14-2		
5.603	5.603 (0.370)	135	41123	2.00000	1.930	50.00- 150.00	100.00
5.575	5.603 (0.368)	137	9361			0.00- 77.65	22.76
15 Chloromethane					CAS #: 74-87-3		
5.935	5.935 (0.392)	50	35452	2.00000	1.887	50.00- 150.00	100.00(a)
5.907	5.935 (0.390)	52	13464			0.00- 82.13	37.98
22 Vinyl Chloride					CAS #: 75-01-4		
6.709	6.709 (0.443)	62	35142	2.00000	2.025	50.00- 150.00	100.00
6.709	6.709 (0.443)	64	10884			0.00- 80.05	30.97
23 1,3-Butadiene					CAS #: 106-99-0		
6.958	6.985 (0.460)	54	33191	2.00000	1.842	50.00- 150.00	100.00
6.958	6.985 (0.460)	39	43888			86.43- 186.43	132.23
25 Bromomethane					CAS #: 74-83-9		
8.479	8.506 (0.560)	94	18069	2.00000	1.747	50.00- 150.00	100.00
8.479	8.506 (0.560)	96	16654			48.56- 148.56	92.17
28 Chloroethane					CAS #: 75-00-3		
9.004	9.031 (0.595)	64	12679	2.00000	1.455	50.00- 150.00	100.00
9.031	9.031 (0.596)	49	4986			0.00- 88.71	39.33
9.004	9.031 (0.595)	66	5877			0.00- 87.42	46.35
33 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.833	9.833 (0.649)	101	80257	2.00000	1.836	50.00- 150.00	100.00
9.833	9.833 (0.649)	103	50661			15.82- 115.82	63.12

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
10.884	10.884 (0.719)	45	25746	2.00000	1.872	50.00- 150.00	100.00(a)
10.884	10.884 (0.719)	46	11340			0.00- 91.71	44.05
10.884	10.884 (0.719)	43	5409			0.00- 70.36	21.01
44 Freon 113					CAS #: 76-13-1		
11.354	11.354 (0.750)	151	51494	2.00000	2.121	50.00- 150.00	100.00
11.354	11.354 (0.750)	153	31441			12.67- 112.67	61.06
11.354	11.354 (0.750)	101	68028			80.55- 180.55	132.11
42 1,1-Dichloroethene					CAS #: 75-35-4		
11.326	11.354 (0.748)	61	116061	2.00000	2.216	50.00- 150.00	100.00
11.354	11.354 (0.750)	96	46156			0.00- 90.72	39.77
11.326	11.354 (0.748)	98	27899			0.00- 76.03	24.04
47 Acetone					CAS #: 67-64-1		
11.713	11.686 (0.774)	58	41387	2.00000	2.353	50.00- 150.00	100.00
11.713	11.686 (0.774)	43	167107			344.44- 444.44	403.77
50 2-Propanol					CAS #: 67-63-0		
12.073	12.073 (0.797)	45	242220	2.00000	2.673	50.00- 150.00	100.00
12.073	12.073 (0.797)	43	45006			0.00- 68.05	18.58
12.101	12.073 (0.799)	59	8329			0.00- 53.27	3.44
46 Carbon Disulfide					CAS #: 75-15-0		
11.713	11.713 (0.774)	76	94015	2.00000	1.740	50.00- 150.00	100.00
53 3-Chloropropene					CAS #: 107-05-1		
12.266	12.266 (0.810)	76	8367	2.00000	1.036	50.00- 150.00	100.00(a)
12.266	12.266 (0.810)	41	43756			483.20- 583.20	522.90
56 Methylene Chloride					CAS #: 75-09-2		
12.571	12.571 (0.830)	49	82289	2.00000	1.841	50.00- 150.00	100.00
12.571	12.571 (0.830)	84	32819			0.00- 90.49	39.88
12.571	12.571 (0.830)	51	24364			0.00- 80.60	29.61
60 MTBE					CAS #: 1634-04-4		
12.958	12.958 (0.856)	73	17332	2.00000	1.305	50.00- 150.00	100.00
12.958	12.958 (0.856)	57	7659			0.00- 90.40	44.19
12.958	12.958 (0.856)	41	6805			0.00- 86.90	39.27
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
12.985	12.985 (0.858)	96	41800	2.00000	1.712	50.00- 150.00	100.00
12.985	12.985 (0.858)	61	96263			168.31- 268.31	230.29
12.985	12.985 (0.858)	98	29724			15.63- 115.63	71.11

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
13.345	13.345 (0.881)	57	122595	2.00000	1.774	50.00- 150.00	100.00
13.345	13.345 (0.881)	43	92945			23.48- 123.48	75.81
13.345	13.345 (0.881)	86	12021			0.00- 61.00	9.81
67 1,1-Dichloroethane					CAS #: 75-34-3		
13.815	13.815 (0.912)	63	80664	2.00000	1.420	50.00- 150.00	100.00
13.815	13.815 (0.912)	65	24697			0.00- 79.55	30.62
75 2-Butanone					CAS #: 78-93-3		
14.783	14.783 (0.976)	72	23053	2.00000	1.624	50.00- 150.00	100.00
14.783	14.783 (0.976)	43	165845			672.62- 772.62	719.39
14.783	14.783 (0.976)	57	11988			4.23- 104.23	52.00
74 cis-1,2-Dichloroethene					CAS #: 156-59-2		
14.755	14.755 (0.974)	61	91903	2.00000	1.764	50.00- 150.00	100.00
14.755	14.755 (0.974)	96	48831			1.46- 101.46	53.13
14.755	14.755 (0.974)	98	28805			0.00- 82.67	31.34
79 Tetrahydrofuran					CAS #: 109-99-9		
15.114	15.114 (0.998)	42	96192	2.00000	1.548	50.00- 150.00	100.00
15.142	15.114 (1.000)	71	22557			0.00- 71.85	23.45
15.142	15.114 (1.000)	72	21990			0.00- 72.55	22.86
82 Chloroform					CAS #: 67-66-3		
15.225	15.225 (1.005)	83	94984	2.00000	1.715	50.00- 150.00	100.00
15.225	15.225 (1.005)	85	62013			15.32- 115.32	65.29
84 1,1,1-Trichloroethane					CAS #: 71-55-6		
15.446	15.446 (1.020)	97	52940	2.00000	1.237	50.00- 150.00	100.00
15.446	15.446 (1.020)	99	36227			15.99- 115.99	68.43
83 Cyclohexane					CAS #: 110-82-7		
15.419	15.418 (1.018)	84	71383	2.00000	1.891	50.00- 150.00	100.00
15.419	15.418 (1.018)	56	126356			136.20- 236.20	177.01
15.419	15.418 (1.018)	41	79307			63.21- 163.21	111.10
85 Carbon Tetrachloride					CAS #: 56-23-5		
15.640	15.640 (1.033)	119	80741	2.00000	1.646	50.00- 150.00	100.00
15.640	15.640 (1.033)	117	84796			53.35- 153.35	105.02
90 Benzene					CAS #: 71-43-2		
15.999	16.027 (0.963)	78	163416	2.00000	1.404	50.00- 150.00	100.00
15.999	16.027 (0.963)	77	39545			0.00- 72.94	24.20
88 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.916	15.916 (1.051)	57	408978	2.00000	1.782	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
88 2,2,4-Trimethylpentane (continued)							
15.916	15.916 (1.051)	56	134022			0.00- 82.06	32.77
15.916	15.916 (1.051)	41	117035			0.00- 79.19	28.62
92 1,2-Dichloroethane					CAS #: 107-06-2		
16.137	16.137 (0.972)	62	90156	2.00000	1.747	50.00- 150.00	100.00
16.137	16.137 (0.972)	64	30409			0.00- 82.17	33.73
94 Heptane					CAS #: 142-82-5		
16.193	16.193 (0.975)	71	56575	2.00000	1.707	50.00- 150.00	100.00
16.193	16.193 (0.975)	43	182592			254.97- 354.97	322.74
16.193	16.193 (0.975)	57	81524			87.76- 187.76	144.10
97 Trichloroethene					CAS #: 79-01-6		
16.995	16.994 (1.023)	95	66978	2.00000	1.809	50.00- 150.00	100.00
16.995	16.994 (1.023)	130	65192			42.97- 142.97	97.33
16.995	16.994 (1.023)	97	42392			15.62- 115.62	63.29
101 1,2-Dichloropropane					CAS #: 78-87-5		
17.465	17.465 (1.052)	63	76728	2.00000	1.848	50.00- 150.00	100.00
17.465	17.465 (1.052)	62	53416			22.56- 122.56	69.62
17.465	17.465 (1.052)	41	58821			28.76- 128.76	76.66
103 1,4-Dioxane					CAS #: 123-91-1		
17.603	17.603 (1.060)	88	37549	2.00000	1.690	50.00- 150.00	100.00(a)
17.603	17.603 (1.060)	58	41405			60.31- 160.31	110.27
17.603	17.603 (1.060)	57	13515			0.00- 85.51	35.99
105 Bromodichloromethane					CAS #: 75-27-4		
17.852	17.852 (1.075)	83	111662	2.00000	1.822	50.00- 150.00	100.00
17.852	17.852 (1.075)	85	70200			14.40- 114.40	62.87
109 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.515	18.515 (1.115)	75	84049	2.00000	1.638	50.00- 150.00	100.00
18.515	18.515 (1.115)	77	26912			0.00- 81.53	32.02
18.515	18.515 (1.115)	39	70941			33.47- 133.47	84.40
110 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.681	18.681 (1.125)	58	80280	2.00000	1.740	50.00- 150.00	100.00
18.681	18.681 (1.125)	43	234982			246.81- 346.81	292.70
18.681	18.681 (1.125)	85	24006			0.00- 80.93	29.90
112 Toluene					CAS #: 108-88-3		
18.958	18.958 (1.141)	91	191956	2.00000	1.819	50.00- 150.00	100.00
18.958	18.958 (1.141)	92	113845			10.86- 110.86	59.31

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.317	19.317 (0.922)	75	75766	2.00000	1.472	50.00- 150.00	100.00
19.317	19.317 (0.922)	77	23967			0.00- 81.70	31.63
19.317	19.317 (0.922)	39	63124			31.07- 131.07	83.32
116 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.594	19.593 (0.935)	97	68793	2.00000	1.859	50.00- 150.00	100.00
19.594	19.593 (0.935)	99	42427			12.75- 112.75	61.67
19.594	19.593 (0.935)	83	58018			36.04- 136.04	84.34
117 Tetrachloroethene					CAS #: 127-18-4		
19.704	19.704 (0.941)	166	84632	2.00000	1.877	50.00- 150.00	100.00
19.704	19.704 (0.941)	129	62964			26.82- 126.82	74.40
19.704	19.704 (0.941)	131	62353			23.22- 123.22	73.68
119 2-Hexanone					CAS #: 591-78-6		
19.842	19.842 (0.947)	58	110680	2.00000	1.590	50.00- 150.00	100.00(a)
19.842	19.842 (0.947)	43	232281			163.36- 263.36	209.87
19.842	19.842 (0.947)	100	14386			0.00- 64.00	13.00
121 Dibromochloromethane					CAS #: 124-48-1		
20.174	20.174 (0.963)	129	101451	2.00000	1.792	50.00- 150.00	100.00
20.174	20.174 (0.963)	127	80182			28.55- 128.55	79.04
122 1,2-Dibromoethane					CAS #: 106-93-4		
20.395	20.395 (0.974)	107	100961	2.00000	1.700	50.00- 150.00	100.00
20.395	20.395 (0.974)	109	92426			46.04- 146.04	91.55
124 Chlorobenzene					CAS #: 108-90-7		
21.004	21.004 (1.003)	112	167560	2.00000	1.768	50.00- 150.00	100.00
21.004	21.004 (1.003)	114	54786			0.00- 82.11	32.70
20.976	21.004 (1.001)	77	145534			36.59- 136.59	86.86
125 Ethyl Benzene					CAS #: 100-41-4		
21.059	21.059 (1.005)	106	88381	2.00000	1.755	50.00- 150.00	100.00
21.059	21.059 (1.005)	91	284153			278.40- 378.40	321.51
128 m,p-Xylene					CAS #: 108-38-3		
21.197	21.197 (1.012)	106	110155	2.00000	1.732	50.00- 150.00	100.00
21.197	21.197 (1.012)	91	228875			159.22- 259.22	207.77
129 o-Xylene					CAS #: 95-47-6		
21.750	21.750 (1.038)	106	101500	2.00000	1.758	50.00- 150.00	100.00
21.750	21.750 (1.038)	91	229240			173.83- 273.83	225.85
130 Styrene					CAS #: 100-42-5		
21.778	21.778 (1.040)	104	160383	2.00000	1.608	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 Styrene (continued)							
21.778	21.778 (1.040)	78	89050			4.23- 104.23	55.52
132 Bromoform					CAS #: 75-25-2		
22.137	22.137 (1.057)	173	85944	2.00000	1.606	50.00- 150.00	100.00
22.137	22.137 (1.057)	171	43480			2.20- 102.20	50.59
133 Cumene					CAS #: 98-82-8		
22.193	22.193 (1.059)	105	298059	2.00000	1.611	50.00- 150.00	100.00
22.193	22.193 (1.059)	120	78401			0.00- 75.11	26.30
22.193	22.193 (1.059)	51	51785			0.00- 67.68	17.37
136 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
22.663	22.663 (1.082)	83	128242	2.00000	1.526	50.00- 150.00	100.00
22.663	22.663 (1.082)	85	80137			12.62- 112.62	62.49
139 Propylbenzene					CAS #: 103-65-1		
22.746	22.746 (1.086)	91	367566	2.00000	1.716	50.00- 150.00	100.00
22.746	22.746 (1.086)	120	77964			0.00- 71.22	21.21
22.746	22.746 (1.086)	105	13333			0.00- 54.12	3.63
142 4-Ethyltoluene					CAS #: 622-96-8		
22.884	22.884 (1.092)	105	300556	2.00000	1.635	50.00- 150.00	100.00
22.884	22.884 (1.092)	120	83475			0.00- 78.13	27.77
144 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
22.967	22.967 (1.096)	105	295942	2.00000	1.483	50.00- 150.00	100.00
22.967	22.967 (1.096)	120	131119			0.00- 93.95	44.31
149 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
23.465	23.464 (1.120)	105	226206	2.00000	1.437	50.00- 150.00	100.00
23.465	23.464 (1.120)	120	97884			0.00- 93.08	43.27
154 1,3-Dichlorobenzene					CAS #: 541-73-1		
23.962	23.962 (1.144)	146	123061	2.00000	1.495	50.00- 150.00	100.00
23.962	23.962 (1.144)	148	77428			12.34- 112.34	62.92
23.935	23.962 (1.143)	111	56414			0.00- 95.73	45.84
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.073	24.073 (1.149)	146	120879	2.00000	1.466	50.00- 150.00	100.00
24.073	24.073 (1.149)	148	73981			11.83- 111.83	61.20
24.073	24.073 (1.149)	111	51296			0.00- 94.91	42.44
158 alpha-Chlorotoluene					CAS #: 100-44-7		
24.239	24.239 (1.157)	91	132157	2.00000	1.070	50.00- 150.00	100.00
24.239	24.239 (1.157)	126	27609			0.00- 71.00	20.89

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
24.570	24.570 (1.173)	146	113070	2.00000	1.515	50.00- 150.00	100.00
24.570	24.570 (1.173)	148	64662			11.41- 111.41	57.19
24.570	24.570 (1.173)	111	48964			0.00- 95.44	43.30
166 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
26.699	26.699 (1.275)	180	53791	2.00000	1.112	50.00- 150.00	100.00(a)
26.699	26.699 (1.275)	182	54561			46.69- 146.69	101.43
167 Hexachlorobutadiene					CAS #: 87-68-3		
26.782	26.782 (1.278)	225	58765	2.00000	1.507	50.00- 150.00	100.00(a)
26.782	26.782 (1.278)	223	37869			14.15- 114.15	64.44
20 Butane					CAS #: 106-97-8		
6.571	6.598 (0.434)	58	8102	2.00000	2.071	50.00- 150.00	100.00
6.598	6.598 (0.436)	43	72973			830.20- 930.20	900.63
29 Isopentane					CAS #: 78-78-4		
9.142	9.142 (0.604)	43	75331	2.00000	2.130	50.00- 150.00	100.00
9.142	9.142 (0.604)	57	41280			9.74- 109.74	54.80
99 Methyl Cyclohexane					CAS #: 108-87-2		
17.216	17.216 (1.137)	83	98441	2.00000	1.780	50.00- 150.00	100.00
17.216	17.216 (1.137)	98	49105			0.00- 99.54	49.88
17.216	17.216 (1.137)	55	128013			81.83- 181.83	130.04
58 tert-Butyl-Alcohol					CAS #: 75-65-0		
12.847	12.847 (0.848)	59	71119	2.00000	2.932	50.00- 150.00	100.00
12.847	12.847 (0.848)	41	17970			0.00- 75.27	25.27
12.847	12.847 (0.848)	57	10430			0.00- 64.67	14.67
168 Naphthalene					CAS #: 91-20-3		
27.114	27.114 (1.294)	128	114281	2.00000	1.036	50.00- 150.00	100.00(a)
27.114	27.114 (1.294)	127	17846			0.00- 65.25	15.62

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y093008.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msdy.i/30sep08.b/t14q930a.m
Misc Info: 200ppbv->2ppbv

Calibration Date: 30-SEP-2008
Calibration Time: 22:22
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	366277	219766	512788	375189	2.43
95 1,4-Difluorobenze	1847900	1108740	2587060	1819237	-1.55
123 Chlorobenzene-d5	1826829	1096097	2557561	1758462	-3.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	15.14	14.81	15.47	15.14	0.00
95 1,4-Difluorobenze	16.61	16.28	16.94	16.61	0.00
123 Chlorobenzene-d5	20.95	20.62	21.28	20.95	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.

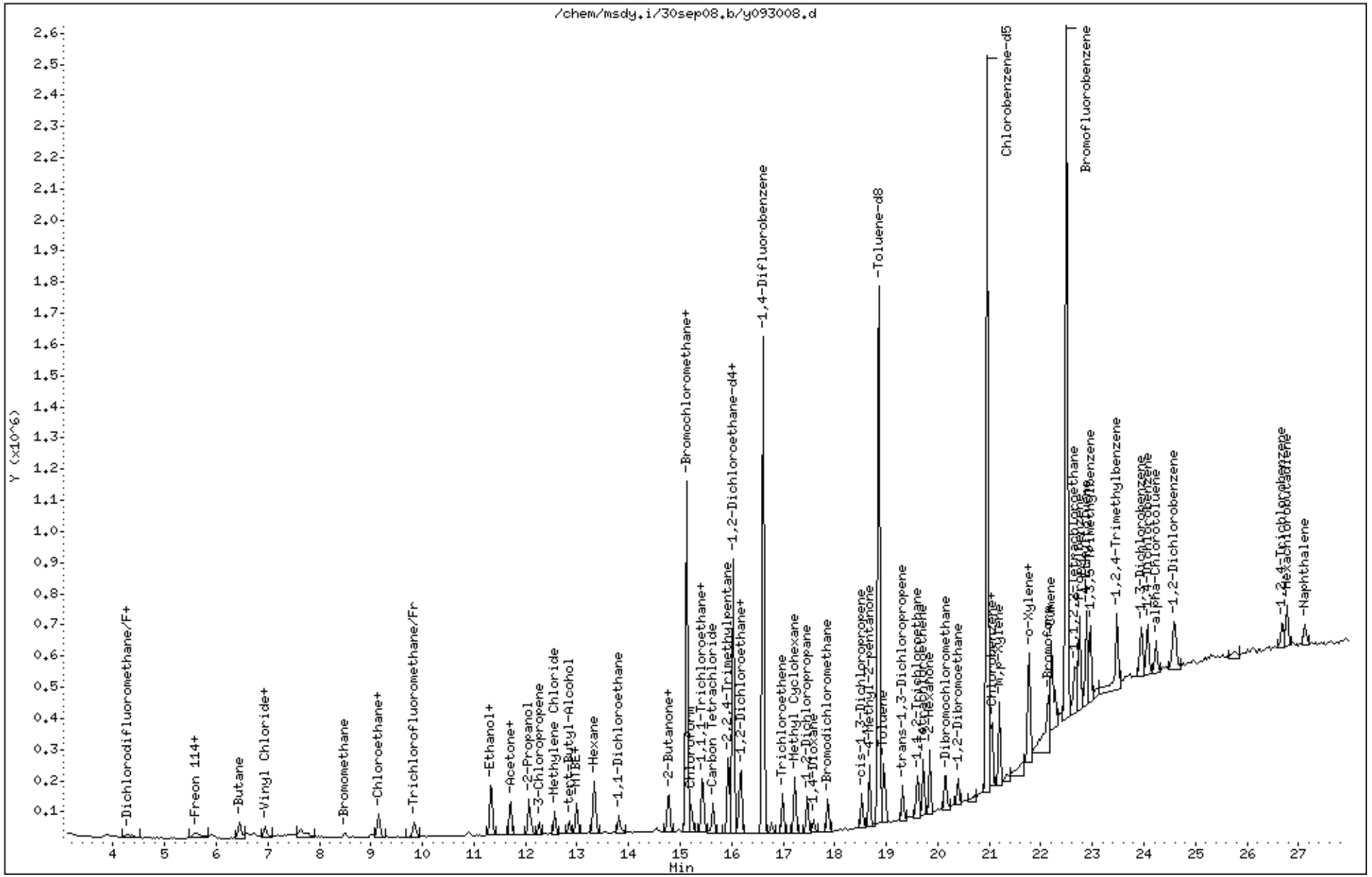
0167

Data File: /chem/msdy.i/30sep08.b/y093008.d
Date : 30-SEP-2008 20:33
Client ID: Level 3
Sample Info: 2.0ml #1612-158

Instrument: msdy.i

Operator: kr

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdy.i/30sep08.b/y093009.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 30-SEP-2008 21:46
Operator : kr Inst ID: msdy.i
Smp Info : 25ml #1612-158
Misc Info : 200ppbv->25ppbv
Comment :
Method : /chem/msdy.i/30sep08.b/t14q930a.m
Meth Date : 01-Oct-2008 07:50 dpage Quant Type: ISTD
Cal Date : 30-SEP-2008 21:46 Cal File: y093009.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 80 Bromochloromethane					CAS #: 74-97-5		
15.142	15.142 (1.000)	130	372121	25.0000		50.00- 150.00	100.00
15.142	15.142 (1.000)	128	300745			28.44- 128.44	80.82
15.142	15.142 (1.000)	49	1153298			256.20- 356.20	309.92
* 95 1,4-Difluorobenzene					CAS #: 540-36-3		
16.608	16.607 (1.000)	114	1879045	25.0000		50.00- 150.00	100.00
16.608	16.607 (1.000)	88	337967			0.00- 68.05	17.99
* 123 Chlorobenzene-d5					CAS #: 3114-55-4		
20.948	20.948 (1.000)	117	1840796	25.0000		50.00- 150.00	100.00
20.948	20.948 (1.000)	82	1156888			13.32- 113.32	62.85
$ 89 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.027	16.027 (1.058)	65	808458	25.0000	25.251	50.00- 150.00	100.00
16.027	16.027 (1.058)	67	366949			0.00- 96.20	45.39
$ 111 Toluene-d8					CAS #: 2037-26-5		
18.875	18.875 (1.137)	98	1952085	25.0000	25.091	50.00- 150.00	100.00
18.847	18.875 (1.135)	70	242769			0.00- 62.19	12.44

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 111 Toluene-d8 (continued)							
18.875	18.875 (1.137)	100	1346416			18.83- 118.83	68.97
$ 135 Bromofluorobenzene					CAS #: 460-00-4		
22.497	22.497 (1.074)	174	991547	25.0000	24.713	50.00- 150.00	100.00
22.497	22.497 (1.074)	95	1609893			112.09- 212.09	162.36
22.497	22.497 (1.074)	176	959708			46.24- 146.24	96.79
5 Propylene					CAS #: 115-07-1		
3.889	3.916 (0.257)	41	373076	25.0000	26.133	50.00- 150.00	100.00
3.861	3.889 (0.255)	42	248715			16.55- 116.55	66.67
3.889	3.889 (0.257)	39	303275			33.88- 133.88	81.29
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.276	4.303 (0.282)	85	941860	25.0000	25.482	50.00- 150.00	100.00
4.276	4.303 (0.282)	87	303186			0.00- 83.90	32.19
11 Freon 114					CAS #: 76-14-2		
5.603	5.603 (0.370)	135	550576	25.0000	26.055	50.00- 150.00	100.00
5.603	5.575 (0.370)	137	170357			0.00- 77.65	30.94
15 Chloromethane					CAS #: 74-87-3		
5.880	5.935 (0.388)	50	484458	25.0000	26.002	50.00- 150.00	100.00
5.880	5.907 (0.388)	52	146098			0.00- 82.13	30.16
22 Vinyl Chloride					CAS #: 75-01-4		
6.709	6.709 (0.443)	62	437608	25.0000	25.430	50.00- 150.00	100.00
6.709	6.709 (0.443)	64	130157			0.00- 80.05	29.74
23 1,3-Butadiene					CAS #: 106-99-0		
6.958	6.958 (0.460)	54	442894	25.0000	24.782	50.00- 150.00	100.00
6.958	6.958 (0.460)	39	484751			86.43- 186.43	109.45
25 Bromomethane					CAS #: 74-83-9		
8.479	8.479 (0.560)	94	262662	25.0000	25.600	50.00- 150.00	100.00
8.479	8.479 (0.560)	96	250482			48.56- 148.56	95.36
28 Chloroethane					CAS #: 75-00-3		
9.004	9.004 (0.595)	64	223258	25.0000	25.832	50.00- 150.00	100.00
9.004	9.031 (0.595)	49	87425			0.00- 88.71	39.16
9.004	9.004 (0.595)	66	68233			0.00- 87.42	30.56
33 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.833	9.833 (0.649)	101	1138015	25.0000	26.242	50.00- 150.00	100.00
9.833	9.833 (0.649)	103	739098			15.82- 115.82	64.95

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
10.884	10.884 (0.719)	45	401199	25.0000	29.404	50.00- 150.00	100.00
10.884	10.884 (0.719)	46	162661			0.00- 91.71	40.54
10.884	10.884 (0.719)	43	80025			0.00- 70.36	19.95
44 Freon 113					CAS #: 76-13-1		
11.354	11.354 (0.750)	151	620797	25.0000	25.784	50.00- 150.00	100.00
11.354	11.354 (0.750)	153	388481			12.67- 112.67	62.58
11.354	11.354 (0.750)	101	817619			80.55- 180.55	131.70
42 1,1-Dichloroethene					CAS #: 75-35-4		
11.326	11.326 (0.748)	61	1413872	25.0000	27.222	50.00- 150.00	100.00
11.326	11.354 (0.748)	96	553098			0.00- 90.72	39.12
11.326	11.326 (0.748)	98	348576			0.00- 76.03	24.65
47 Acetone					CAS #: 67-64-1		
11.686	11.713 (0.772)	58	434330	25.0000	24.897	50.00- 150.00	100.00
11.686	11.713 (0.772)	43	1701078			344.44- 444.44	391.66
50 2-Propanol					CAS #: 67-63-0		
12.073	12.073 (0.797)	45	2232972	25.0000	24.845	50.00- 150.00	100.00
12.073	12.073 (0.797)	43	395565			0.00- 68.05	17.71
12.073	12.101 (0.797)	59	72881			0.00- 53.27	3.26
46 Carbon Disulfide					CAS #: 75-15-0		
11.714	11.713 (0.774)	76	1541305	25.0000	28.766	50.00- 150.00	100.00
53 3-Chloropropene					CAS #: 107-05-1		
12.267	12.266 (0.810)	76	214195	25.0000	26.742	50.00- 150.00	100.00
12.267	12.266 (0.810)	41	1147784			483.20- 583.20	535.86
56 Methylene Chloride					CAS #: 75-09-2		
12.571	12.571 (0.830)	49	1208775	25.0000	27.268	50.00- 150.00	100.00
12.571	12.571 (0.830)	84	476887			0.00- 90.49	39.45
12.571	12.571 (0.830)	51	362063			0.00- 80.60	29.95
60 MTBE					CAS #: 1634-04-4		
12.958	12.958 (0.856)	73	328078	25.0000	24.912	50.00- 150.00	100.00
12.958	12.958 (0.856)	57	113371			0.00- 90.40	34.56
12.958	12.958 (0.856)	41	110846			0.00- 86.90	33.79
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
12.985	12.985 (0.858)	96	642182	25.0000	26.524	50.00- 150.00	100.00
12.985	12.985 (0.858)	61	1375702			168.31- 268.31	214.22
12.985	12.985 (0.858)	98	402635			15.63- 115.63	62.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
13.345	13.345 (0.881)	57	1759757	25.0000	25.668	50.00- 150.00	100.00
13.345	13.345 (0.881)	43	1304479			23.48- 123.48	74.13
13.345	13.345 (0.881)	86	201205			0.00- 61.00	11.43
67 1,1-Dichloroethane					CAS #: 75-34-3		
13.815	13.815 (0.912)	63	1592042	25.0000	28.261	50.00- 150.00	100.00
13.815	13.815 (0.912)	65	463456			0.00- 79.55	29.11
75 2-Butanone					CAS #: 78-93-3		
14.783	14.783 (0.976)	72	368191	25.0000	26.152	50.00- 150.00	100.00
14.783	14.783 (0.976)	43	2722342			672.62- 772.62	739.38
14.783	14.783 (0.976)	57	183545			4.23- 104.23	49.85
74 cis-1,2-Dichloroethene					CAS #: 156-59-2		
14.755	14.755 (0.974)	61	1359354	25.0000	26.303	50.00- 150.00	100.00
14.755	14.755 (0.974)	96	701607			1.46- 101.46	51.61
14.755	14.755 (0.974)	98	444933			0.00- 82.67	32.73
79 Tetrahydrofuran					CAS #: 109-99-9		
15.114	15.114 (0.998)	42	1639287	25.0000	26.601	50.00- 150.00	100.00
15.114	15.142 (0.998)	71	341986			0.00- 71.85	20.86
15.114	15.142 (0.998)	72	371547			0.00- 72.55	22.67
82 Chloroform					CAS #: 67-66-3		
15.225	15.225 (1.005)	83	1463105	25.0000	26.642	50.00- 150.00	100.00
15.225	15.225 (1.005)	85	930116			15.32- 115.32	63.57
84 1,1,1-Trichloroethane					CAS #: 71-55-6		
15.446	15.446 (1.020)	97	1226949	25.0000	28.907	50.00- 150.00	100.00
15.446	15.446 (1.020)	99	779126			15.99- 115.99	63.50
83 Cyclohexane					CAS #: 110-82-7		
15.419	15.419 (1.018)	84	1013470	25.0000	27.075	50.00- 150.00	100.00
15.419	15.419 (1.018)	56	1910902			136.20- 236.20	188.55
15.419	15.419 (1.018)	41	1152318			63.21- 163.21	113.70
85 Carbon Tetrachloride					CAS #: 56-23-5		
15.640	15.640 (1.033)	119	1307248	25.0000	26.864	50.00- 150.00	100.00
15.640	15.640 (1.033)	117	1367372			53.35- 153.35	104.60
88 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.916	15.916 (1.051)	57	6059067	25.0000	26.626	50.00- 150.00	100.00
15.916	15.916 (1.051)	56	1966336			0.00- 82.06	32.45
15.916	15.916 (1.051)	41	1733036			0.00- 79.19	28.60

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
90 Benzene					CAS #: 71-43-2		
15.999	15.999 (0.963)	78	2356423	25.0000	19.603	50.00- 150.00	100.00
15.999	15.999 (0.963)	77	532829			0.00- 72.94	22.61
92 1,2-Dichloroethane					CAS #: 107-06-2		
16.137	16.137 (0.972)	62	1403759	25.0000	26.334	50.00- 150.00	100.00
16.137	16.137 (0.972)	64	438473			0.00- 82.17	31.24
94 Heptane					CAS #: 142-82-5		
16.193	16.193 (0.975)	71	902063	25.0000	26.345	50.00- 150.00	100.00
16.193	16.193 (0.975)	43	2763953			254.97- 354.97	306.40
16.193	16.193 (0.975)	57	1247412			87.76- 187.76	138.28
97 Trichloroethene					CAS #: 79-01-6		
16.995	16.995 (1.023)	95	1026813	25.0000	26.856	50.00- 150.00	100.00
16.995	16.995 (1.023)	130	950930			42.97- 142.97	92.61
16.995	16.995 (1.023)	97	651028			15.62- 115.62	63.40
101 1,2-Dichloropropane					CAS #: 78-87-5		
17.465	17.465 (1.052)	63	1147629	25.0000	26.759	50.00- 150.00	100.00
17.465	17.465 (1.052)	62	815138			22.56- 122.56	71.03
17.465	17.465 (1.052)	41	865234			28.76- 128.76	75.39
103 1,4-Dioxane					CAS #: 123-91-1		
17.603	17.603 (1.060)	88	601866	25.0000	26.232	50.00- 150.00	100.00
17.603	17.603 (1.060)	58	660567			60.31- 160.31	109.75
17.603	17.603 (1.060)	57	215921			0.00- 85.51	35.88
105 Bromodichloromethane					CAS #: 75-27-4		
17.852	17.852 (1.075)	83	1663258	25.0000	26.282	50.00- 150.00	100.00
17.852	17.852 (1.075)	85	1054473			14.40- 114.40	63.40
109 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.515	18.515 (1.115)	75	1413874	25.0000	26.687	50.00- 150.00	100.00
18.515	18.515 (1.115)	77	447666			0.00- 81.53	31.66
18.515	18.515 (1.115)	39	1210079			33.47- 133.47	85.59
110 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.681	18.681 (1.125)	58	1237018	25.0000	25.954	50.00- 150.00	100.00
18.681	18.681 (1.125)	43	3660424			246.81- 346.81	295.91
18.681	18.681 (1.125)	85	365109			0.00- 80.93	29.52
112 Toluene					CAS #: 108-88-3		
18.958	18.958 (1.141)	91	2867703	25.0000	26.314	50.00- 150.00	100.00
18.958	18.958 (1.141)	92	1735297			10.86- 110.86	60.51

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.317	19.317 (0.922)	75	1478772	25.0000	27.447	50.00- 150.00	100.00
19.317	19.317 (0.922)	77	472135			0.00- 81.70	31.93
19.317	19.317 (0.922)	39	1165177			31.07- 131.07	78.79
116 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.594	19.594 (0.935)	97	1013182	25.0000	26.161	50.00- 150.00	100.00
19.594	19.594 (0.935)	99	626866			12.75- 112.75	61.87
19.594	19.594 (0.935)	83	867971			36.04- 136.04	85.67
117 Tetrachloroethene					CAS #: 127-18-4		
19.704	19.704 (0.941)	166	1215229	25.0000	25.749	50.00- 150.00	100.00
19.704	19.704 (0.941)	129	919510			26.82- 126.82	75.67
19.704	19.704 (0.941)	131	901513			23.22- 123.22	74.18
119 2-Hexanone					CAS #: 591-78-6		
19.843	19.842 (0.947)	58	1874214	25.0000	25.724	50.00- 150.00	100.00
19.843	19.842 (0.947)	43	3950404			163.36- 263.36	210.78
19.843	19.842 (0.947)	100	269778			0.00- 64.00	14.39
121 Dibromochloromethane					CAS #: 124-48-1		
20.174	20.174 (0.963)	129	1546267	25.0000	26.093	50.00- 150.00	100.00
20.174	20.174 (0.963)	127	1207667			28.55- 128.55	78.10
122 1,2-Dibromoethane					CAS #: 106-93-4		
20.395	20.395 (0.974)	107	1578487	25.0000	25.392	50.00- 150.00	100.00
20.395	20.395 (0.974)	109	1490526			46.04- 146.04	94.43
124 Chlorobenzene					CAS #: 108-90-7		
21.004	21.004 (1.003)	112	2514418	25.0000	25.338	50.00- 150.00	100.00
21.004	21.004 (1.003)	114	794090			0.00- 82.11	31.58
20.976	20.976 (1.001)	77	2027480			36.59- 136.59	80.63
125 Ethyl Benzene					CAS #: 100-41-4		
21.059	21.059 (1.005)	106	1381839	25.0000	26.219	50.00- 150.00	100.00
21.059	21.059 (1.005)	91	4488246			278.40- 378.40	324.80
128 m,p-Xylene					CAS #: 108-38-3		
21.197	21.197 (1.012)	106	1762475	25.0000	26.467	50.00- 150.00	100.00
21.197	21.197 (1.012)	91	3641184			159.22- 259.22	206.59
129 o-Xylene					CAS #: 95-47-6		
21.750	21.750 (1.038)	106	1626160	25.0000	26.911	50.00- 150.00	100.00
21.750	21.750 (1.038)	91	3541880			173.83- 273.83	217.81
130 Styrene					CAS #: 100-42-5		
21.778	21.778 (1.040)	104	2731463	25.0000	26.170	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 Styrene (continued)							
21.778	21.778 (1.040)	78	1447160			4.23- 104.23	52.98
132 Bromoform					CAS #: 75-25-2		
22.137	22.137 (1.057)	173	1534628	25.0000	27.401	50.00- 150.00	100.00
22.137	22.137 (1.057)	171	785221			2.20- 102.20	51.17
133 Cumene					CAS #: 98-82-8		
22.193	22.193 (1.059)	105	4765027	25.0000	24.605	50.00- 150.00	100.00
22.193	22.193 (1.059)	120	1199428			0.00- 75.11	25.17
22.193	22.193 (1.059)	51	801807			0.00- 67.68	16.83
136 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
22.663	22.663 (1.082)	83	2444355	25.0000	27.779	50.00- 150.00	100.00
22.663	22.663 (1.082)	85	1568128			12.62- 112.62	64.15
139 Propylbenzene					CAS #: 103-65-1		
22.746	22.746 (1.086)	91	6163242	25.0000	27.478	50.00- 150.00	100.00
22.746	22.746 (1.086)	120	1304937			0.00- 71.22	21.17
22.746	22.746 (1.086)	105	222063			0.00- 54.12	3.60
142 4-Ethyltoluene					CAS #: 622-96-8		
22.884	22.884 (1.092)	105	5286248	25.0000	27.466	50.00- 150.00	100.00
22.884	22.884 (1.092)	120	1492049			0.00- 78.13	28.23
144 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
22.967	22.967 (1.096)	105	5152152	25.0000	24.667	50.00- 150.00	100.00
22.967	22.967 (1.096)	120	2268412			0.00- 93.95	44.03
149 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
23.465	23.465 (1.120)	105	4094428	25.0000	24.843	50.00- 150.00	100.00
23.465	23.465 (1.120)	120	1780485			0.00- 93.08	43.49
154 1,3-Dichlorobenzene					CAS #: 541-73-1		
23.935	23.962 (1.143)	146	2385400	25.0000	27.686	50.00- 150.00	100.00
23.935	23.962 (1.143)	148	1497674			12.34- 112.34	62.79
23.935	23.935 (1.143)	111	1085468			0.00- 95.73	45.50
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.073	24.073 (1.149)	146	2363973	25.0000	27.396	50.00- 150.00	100.00
24.073	24.073 (1.149)	148	1497209			11.83- 111.83	63.33
24.073	24.073 (1.149)	111	1034414			0.00- 94.91	43.76
158 alpha-Chlorotoluene					CAS #: 100-44-7		
24.239	24.239 (1.157)	91	3578365	25.0000	27.667	50.00- 150.00	100.00
24.239	24.239 (1.157)	126	696954			0.00- 71.00	19.48

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
24.571	24.570 (1.173)	146	2108489	25.0000	26.995	50.00- 150.00	100.00
24.571	24.570 (1.173)	148	1336024			11.41- 111.41	63.36
24.571	24.570 (1.173)	111	1000092			0.00- 95.44	47.43
166 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
26.700	26.699 (1.275)	180	1270779	25.0000	25.107	50.00- 150.00	100.00
26.700	26.699 (1.275)	182	1206876			46.69- 146.69	94.97
167 Hexachlorobutadiene					CAS #: 87-68-3		
26.783	26.782 (1.278)	225	1051699	25.0000	25.762	50.00- 150.00	100.00
26.783	26.782 (1.278)	223	665229			14.15- 114.15	63.25
168 Naphthalene					CAS #: 91-20-3		
27.114	27.114 (1.294)	128	2745127	25.0000	23.783	50.00- 150.00	100.00
27.114	27.114 (1.294)	127	360562			0.00- 65.25	13.13
29 Isopentane					CAS #: 78-78-4		
9.142	9.142 (0.604)	43	951378	25.0000	27.126	50.00- 150.00	100.00
9.142	9.142 (0.604)	57	591099			9.74- 109.74	62.13
20 Butane					CAS #: 106-97-8		
6.598	6.571 (0.436)	58	92652	25.0000	23.876	50.00- 150.00	100.00
6.598	6.598 (0.436)	43	858022			830.20- 930.20	926.06
99 Methyl Cyclohexane					CAS #: 108-87-2		
17.216	17.216 (1.137)	83	1430580	25.0000	26.082	50.00- 150.00	100.00
17.216	17.216 (1.137)	98	683955			0.00- 99.54	47.81
17.216	17.216 (1.137)	55	1892408			81.83- 181.83	132.28
58 tert-Butyl-Alcohol					CAS #: 75-65-0		
12.847	12.847 (0.848)	59	664200	25.0000	27.605	50.00- 150.00	100.00
12.847	12.847 (0.848)	41	160031			0.00- 75.27	24.09
12.847	12.847 (0.848)	57	77710			0.00- 64.67	11.70

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y093009.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msdy.i/30sep08.b/t14q930a.m
Misc Info: 200ppbv->25ppbv

Calibration Date: 30-SEP-2008
Calibration Time: 22:22
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	366277	219766	512788	372121	1.60
95 1,4-Difluorobenze	1847900	1108740	2587060	1879045	1.69
123 Chlorobenzene-d5	1826829	1096097	2557561	1840796	0.76

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	15.14	14.81	15.47	15.14	0.00
95 1,4-Difluorobenze	16.61	16.28	16.94	16.61	0.00
123 Chlorobenzene-d5	20.95	20.62	21.28	20.95	0.00

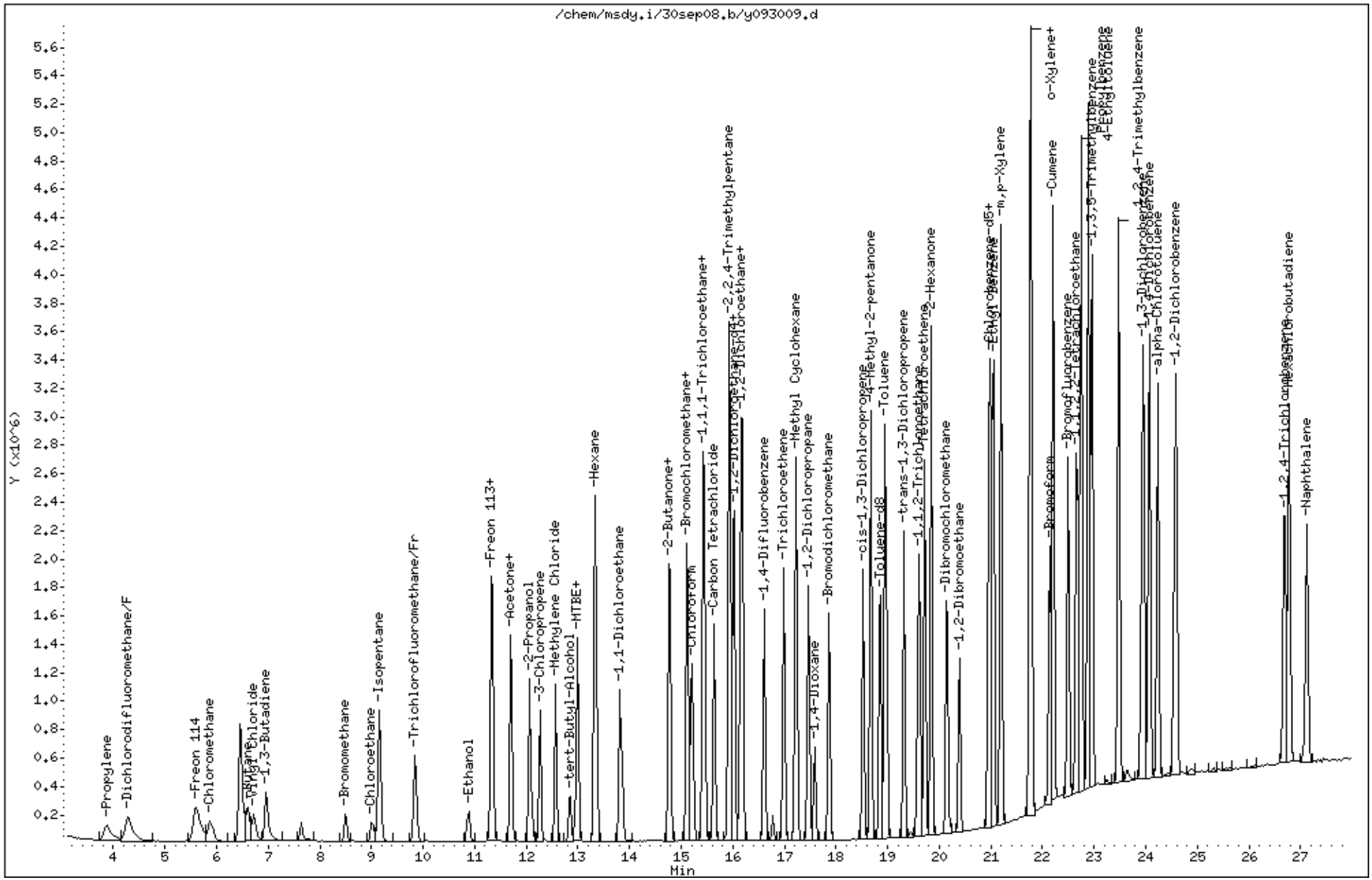
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdy.i/30sep08.b/y093009.d
Date : 30-SEP-2008 21:46
Client ID: Level 4
Sample Info: 25ml #1612-158

Instrument: msdy.i

Operator: kr
Column diameter: 0.53

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdy.i/30sep08.b/y093010.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 30-SEP-2008 22:22
Operator : kr Inst ID: msdy.i
Smp Info : 50ml #1612-158
Misc Info : 200ppbv->50ppbv
Comment :
Method : /chem/msdy.i/30sep08.b/t14q930a.m
Meth Date : 01-Oct-2008 07:50 dpage Quant Type: ISTD
Cal Date : 30-SEP-2008 22:22 Cal File: y093010.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 80 Bromochloromethane					CAS #: 74-97-5		
15.142	15.142 (1.000)	130	366277	25.0000		50.00- 150.00	100.00
15.142	15.142 (1.000)	128	286250			28.44- 128.44	78.15
15.142	15.142 (1.000)	49	1120083			256.20- 356.20	305.80
* 95 1,4-Difluorobenzene					CAS #: 540-36-3		
16.607	16.608 (1.000)	114	1847900	25.0000		50.00- 150.00	100.00
16.607	16.608 (1.000)	88	336750			0.00- 68.05	18.22
* 123 Chlorobenzene-d5					CAS #: 3114-55-4		
20.948	20.948 (1.000)	117	1826829	25.0000		50.00- 150.00	100.00
20.948	20.948 (1.000)	82	1151777			13.32- 113.32	63.05
$ 89 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.027	16.027 (1.058)	65	788059	25.0000	25.007	50.00- 150.00	100.00
16.027	16.027 (1.058)	67	359175			0.00- 96.20	45.58
$ 111 Toluene-d8					CAS #: 2037-26-5		
18.875	18.875 (1.137)	98	1920247	25.0000	25.098	50.00- 150.00	100.00
18.847	18.847 (1.135)	70	232050			0.00- 62.19	12.08

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 111 Toluene-d8 (continued)							
18.875	18.875 (1.137)	100	1325453			18.83- 118.83	69.03
$ 135 Bromofluorobenzene					CAS #: 460-00-4		
22.497	22.497 (1.074)	174	997005	25.0000	25.039	50.00- 150.00	100.00
22.497	22.497 (1.074)	95	1592985			112.09- 212.09	159.78
22.497	22.497 (1.074)	176	949664			46.24- 146.24	95.25
5 Propylene					CAS #: 115-07-1		
3.889	3.889 (0.257)	41	676798	50.0000	48.164	50.00- 150.00	100.00
3.889	3.861 (0.257)	42	456736			16.55- 116.55	67.48
3.889	3.889 (0.257)	39	552518			33.88- 133.88	81.64
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.276	4.276 (0.282)	85	1785971	50.0000	49.091	50.00- 150.00	100.00
4.276	4.276 (0.282)	87	573914			0.00- 83.90	32.13
11 Freon 114					CAS #: 76-14-2		
5.603	5.603 (0.370)	135	1040645	50.0000	50.033	50.00- 150.00	100.00
5.603	5.603 (0.370)	137	321639			0.00- 77.65	30.91
15 Chloromethane					CAS #: 74-87-3		
5.879	5.880 (0.388)	50	916595	50.0000	49.980	50.00- 150.00	100.00
5.907	5.880 (0.390)	52	275551			0.00- 82.13	30.06
22 Vinyl Chloride					CAS #: 75-01-4		
6.709	6.709 (0.443)	62	810000	50.0000	47.821	50.00- 150.00	100.00
6.709	6.709 (0.443)	64	239811			0.00- 80.05	29.61
23 1,3-Butadiene					CAS #: 106-99-0		
6.958	6.958 (0.460)	54	786101	50.0000	44.688	50.00- 150.00	100.00
6.958	6.958 (0.460)	39	888193			86.43- 186.43	112.99
25 Bromomethane					CAS #: 74-83-9		
8.479	8.479 (0.560)	94	509573	50.0000	50.457	50.00- 150.00	100.00
8.479	8.479 (0.560)	96	483630			48.56- 148.56	94.91
28 Chloroethane					CAS #: 75-00-3		
9.004	9.004 (0.595)	64	440792	50.0000	51.816	50.00- 150.00	100.00
9.004	9.004 (0.595)	49	170450			0.00- 88.71	38.67
9.004	9.004 (0.595)	66	123527			0.00- 87.42	28.02
33 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.833	9.833 (0.649)	101	2185626	50.0000	51.204	50.00- 150.00	100.00
9.833	9.833 (0.649)	103	1399325			15.82- 115.82	64.02

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
10.884	10.884 (0.719)	45	735297	50.0000	54.751	50.00- 150.00	100.00
10.884	10.884 (0.719)	46	300776			0.00- 91.71	40.91
10.884	10.884 (0.719)	43	148954			0.00- 70.36	20.26
44 Freon 113					CAS #: 76-13-1		
11.354	11.354 (0.750)	151	1087695	50.0000	45.897	50.00- 150.00	100.00
11.354	11.354 (0.750)	153	680348			12.67- 112.67	62.55
11.354	11.354 (0.750)	101	1443096			80.55- 180.55	132.67
42 1,1-Dichloroethene					CAS #: 75-35-4		
11.326	11.326 (0.748)	61	2453053	50.0000	47.984	50.00- 150.00	100.00
11.326	11.326 (0.748)	96	966010			0.00- 90.72	39.38
11.326	11.326 (0.748)	98	605754			0.00- 76.03	24.69
47 Acetone					CAS #: 67-64-1		
11.686	11.686 (0.772)	58	845929	50.0000	49.265	50.00- 150.00	100.00
11.686	11.686 (0.772)	43	3301066			344.44- 444.44	390.23
50 2-Propanol					CAS #: 67-63-0		
12.073	12.073 (0.797)	45	4131781	50.0000	46.706	50.00- 150.00	100.00
12.073	12.073 (0.797)	43	745235			0.00- 68.05	18.04
12.073	12.073 (0.797)	59	131938			0.00- 53.27	3.19
46 Carbon Disulfide					CAS #: 75-15-0		
11.714	11.714 (0.774)	76	2822878	50.0000	53.525	50.00- 150.00	100.00
53 3-Chloropropene					CAS #: 107-05-1		
12.267	12.267 (0.810)	76	445849	50.0000	56.552	50.00- 150.00	100.00
12.267	12.267 (0.810)	41	2396476			483.20- 583.20	537.51
56 Methylene Chloride					CAS #: 75-09-2		
12.571	12.571 (0.830)	49	2210786	50.0000	50.668	50.00- 150.00	100.00
12.571	12.571 (0.830)	84	862680			0.00- 90.49	39.02
12.571	12.571 (0.830)	51	665570			0.00- 80.60	30.11
60 MTBE					CAS #: 1634-04-4		
12.958	12.958 (0.856)	73	665693	50.0000	51.354	50.00- 150.00	100.00
12.958	12.958 (0.856)	57	235281			0.00- 90.40	35.34
12.958	12.958 (0.856)	41	235862			0.00- 86.90	35.43
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
12.985	12.985 (0.858)	96	1235691	50.0000	51.851	50.00- 150.00	100.00
12.985	12.985 (0.858)	61	2690752			168.31- 268.31	217.75
12.985	12.985 (0.858)	98	790287			15.63- 115.63	63.96

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
13.345	13.345 (0.881)	57	3476846	50.0000	51.523	50.00- 150.00	100.00
13.345	13.345 (0.881)	43	2541878			23.48- 123.48	73.11
13.345	13.345 (0.881)	86	385161			0.00- 61.00	11.08
67 1,1-Dichloroethane					CAS #: 75-34-3		
13.815	13.815 (0.912)	63	3125428	50.0000	56.367	50.00- 150.00	100.00
13.815	13.815 (0.912)	65	930173			0.00- 79.55	29.76
75 2-Butanone					CAS #: 78-93-3		
14.783	14.783 (0.976)	72	741602	50.0000	53.514	50.00- 150.00	100.00
14.783	14.783 (0.976)	43	5428087			672.62- 772.62	731.94
14.783	14.783 (0.976)	57	370117			4.23- 104.23	49.91
74 cis-1,2-Dichloroethene					CAS #: 156-59-2		
14.755	14.755 (0.974)	61	2624071	50.0000	51.584	50.00- 150.00	100.00
14.755	14.755 (0.974)	96	1348708			1.46- 101.46	51.40
14.755	14.755 (0.974)	98	856776			0.00- 82.67	32.65
79 Tetrahydrofuran					CAS #: 109-99-9		
15.114	15.114 (0.998)	42	3235192	50.0000	53.336	50.00- 150.00	100.00
15.114	15.114 (0.998)	71	680898			0.00- 71.85	21.05
15.114	15.114 (0.998)	72	739349			0.00- 72.55	22.85
82 Chloroform					CAS #: 67-66-3		
15.225	15.225 (1.005)	83	2832532	50.0000	52.401	50.00- 150.00	100.00
15.225	15.225 (1.005)	85	1807298			15.32- 115.32	63.81
84 1,1,1-Trichloroethane					CAS #: 71-55-6		
15.446	15.446 (1.020)	97	2529540	50.0000	60.548	50.00- 150.00	100.00
15.446	15.446 (1.020)	99	1601933			15.99- 115.99	63.33
83 Cyclohexane					CAS #: 110-82-7		
15.419	15.419 (1.018)	84	1903296	50.0000	51.658	50.00- 150.00	100.00
15.419	15.419 (1.018)	56	3628064			136.20- 236.20	190.62
15.419	15.419 (1.018)	41	2188652			63.21- 163.21	114.99
85 Carbon Tetrachloride					CAS #: 56-23-5		
15.640	15.640 (1.033)	119	2564701	50.0000	53.545	50.00- 150.00	100.00
15.640	15.640 (1.033)	117	2696152			53.35- 153.35	105.13
88 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.916	15.916 (1.051)	57	11846381	50.0000	52.889	50.00- 150.00	100.00
15.916	15.916 (1.051)	56	3837630			0.00- 82.06	32.39
15.916	15.916 (1.051)	41	3367577			0.00- 79.19	28.43

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
90 Benzene					CAS #: 71-43-2		
15.999	15.999 (0.963)	78	4555466	50.0000	38.536	50.00- 150.00	100.00
15.999	15.999 (0.963)	77	1044634			0.00- 72.94	22.93
92 1,2-Dichloroethane					CAS #: 107-06-2		
16.137	16.137 (0.972)	62	2787448	50.0000	53.172	50.00- 150.00	100.00
16.137	16.137 (0.972)	64	855703			0.00- 82.17	30.70
94 Heptane					CAS #: 142-82-5		
16.193	16.193 (0.975)	71	1730616	50.0000	51.395	50.00- 150.00	100.00
16.193	16.193 (0.975)	43	5336722			254.97- 354.97	308.37
16.193	16.193 (0.975)	57	2424569			87.76- 187.76	140.10
97 Trichloroethene					CAS #: 79-01-6		
16.995	16.995 (1.023)	95	1928783	50.0000	51.296	50.00- 150.00	100.00
16.995	16.995 (1.023)	130	1771721			42.97- 142.97	91.86
16.995	16.995 (1.023)	97	1249363			15.62- 115.62	64.77
101 1,2-Dichloropropane					CAS #: 78-87-5		
17.465	17.465 (1.052)	63	2220320	50.0000	52.643	50.00- 150.00	100.00
17.465	17.465 (1.052)	62	1599519			22.56- 122.56	72.04
17.465	17.465 (1.052)	41	1714216			28.76- 128.76	77.21
103 1,4-Dioxane					CAS #: 123-91-1		
17.603	17.603 (1.060)	88	1220769	50.0000	54.104	50.00- 150.00	100.00
17.603	17.603 (1.060)	58	1361853			60.31- 160.31	111.56
17.603	17.603 (1.060)	57	430447			0.00- 85.51	35.26
105 Bromodichloromethane					CAS #: 75-27-4		
17.852	17.852 (1.075)	83	3288358	50.0000	52.838	50.00- 150.00	100.00
17.852	17.852 (1.075)	85	2091931			14.40- 114.40	63.62
109 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.515	18.515 (1.115)	75	2819412	50.0000	54.114	50.00- 150.00	100.00
18.515	18.515 (1.115)	77	884409			0.00- 81.53	31.37
18.515	18.515 (1.115)	39	2397636			33.47- 133.47	85.04
110 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.681	18.681 (1.125)	58	2478366	50.0000	52.875	50.00- 150.00	100.00
18.681	18.681 (1.125)	43	7416967			246.81- 346.81	299.27
18.681	18.681 (1.125)	85	724745			0.00- 80.93	29.24
112 Toluene					CAS #: 108-88-3		
18.958	18.958 (1.141)	91	5619095	50.0000	52.431	50.00- 150.00	100.00
18.958	18.958 (1.141)	92	3404495			10.86- 110.86	60.59

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.317	19.317 (0.922)	75	3025943	50.0000	56.592	50.00- 150.00	100.00
19.317	19.317 (0.922)	77	949103			0.00- 81.70	31.37
19.317	19.317 (0.922)	39	2388405			31.07- 131.07	78.93
116 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.594	19.594 (0.935)	97	1988158	50.0000	51.728	50.00- 150.00	100.00
19.594	19.594 (0.935)	99	1226521			12.75- 112.75	61.69
19.594	19.594 (0.935)	83	1697837			36.04- 136.04	85.40
117 Tetrachloroethene					CAS #: 127-18-4		
19.704	19.704 (0.941)	166	2359156	50.0000	50.370	50.00- 150.00	100.00
19.704	19.704 (0.941)	129	1778505			26.82- 126.82	75.39
19.704	19.704 (0.941)	131	1736841			23.22- 123.22	73.62
119 2-Hexanone					CAS #: 591-78-6		
19.842	19.843 (0.947)	58	3880044	50.0000	53.662	50.00- 150.00	100.00
19.842	19.843 (0.947)	43	8357218			163.36- 263.36	215.39
19.842	19.843 (0.947)	100	559608			0.00- 64.00	14.42
121 Dibromochloromethane					CAS #: 124-48-1		
20.174	20.174 (0.963)	129	3021040	50.0000	51.370	50.00- 150.00	100.00
20.174	20.174 (0.963)	127	2378813			28.55- 128.55	78.74
122 1,2-Dibromoethane					CAS #: 106-93-4		
20.395	20.395 (0.974)	107	3149472	50.0000	51.050	50.00- 150.00	100.00
20.395	20.395 (0.974)	109	2954362			46.04- 146.04	93.80
124 Chlorobenzene					CAS #: 108-90-7		
21.004	21.004 (1.003)	112	4939173	50.0000	50.153	50.00- 150.00	100.00
21.004	21.004 (1.003)	114	1544492			0.00- 82.11	31.27
20.976	20.976 (1.001)	77	3925287			36.59- 136.59	79.47
125 Ethyl Benzene					CAS #: 100-41-4		
21.059	21.059 (1.005)	106	2682827	50.0000	51.293	50.00- 150.00	100.00
21.059	21.059 (1.005)	91	8862676			278.40- 378.40	330.35
128 m,p-Xylene					CAS #: 108-38-3		
21.197	21.197 (1.012)	106	3407975	50.0000	51.569	50.00- 150.00	100.00
21.197	21.197 (1.012)	91	7180455			159.22- 259.22	210.70
129 o-Xylene					CAS #: 95-47-6		
21.750	21.750 (1.038)	106	3101789	50.0000	51.724	50.00- 150.00	100.00
21.750	21.750 (1.038)	91	6885075			173.83- 273.83	221.97
130 Styrene					CAS #: 100-42-5		
21.778	21.778 (1.040)	104	5343723	50.0000	51.589	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
130 Styrene (continued)							
21.778	21.778 (1.040)	78	2848117			4.23- 104.23	53.30
132 Bromoform					CAS #: 75-25-2		
22.137	22.137 (1.057)	173	3004488	50.0000	54.056	50.00- 150.00	100.00
22.137	22.137 (1.057)	171	1544747			2.20- 102.20	51.41
133 Cumene					CAS #: 98-82-8		
22.193	22.193 (1.059)	105	9387459	50.0000	48.845	50.00- 150.00	100.00
22.193	22.193 (1.059)	120	2340195			0.00- 75.11	24.93
22.193	22.193 (1.059)	51	1549593			0.00- 67.68	16.51
136 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
22.663	22.663 (1.082)	83	4907999	50.0000	56.204	50.00- 150.00	100.00
22.663	22.663 (1.082)	85	3126142			12.62- 112.62	63.69
139 Propylbenzene					CAS #: 103-65-1		
22.746	22.746 (1.086)	91	12238676	50.0000	54.983	50.00- 150.00	100.00
22.746	22.746 (1.086)	120	2534609			0.00- 71.22	20.71
22.746	22.746 (1.086)	105	442746			0.00- 54.12	3.62
142 4-Ethyltoluene					CAS #: 622-96-8		
22.884	22.884 (1.092)	105	10506983	50.0000	55.009	50.00- 150.00	100.00
22.884	22.884 (1.092)	120	2933498			0.00- 78.13	27.92
144 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
22.967	22.967 (1.096)	105	10246357	50.0000	49.432	50.00- 150.00	100.00
22.967	22.967 (1.096)	120	4440827			0.00- 93.95	43.34
149 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
23.465	23.465 (1.120)	105	8138450	50.0000	49.758	50.00- 150.00	100.00
23.465	23.465 (1.120)	120	3540702			0.00- 93.08	43.51
154 1,3-Dichlorobenzene					CAS #: 541-73-1		
23.935	23.935 (1.143)	146	4766429	50.0000	55.745	50.00- 150.00	100.00
23.935	23.935 (1.143)	148	2991543			12.34- 112.34	62.76
23.935	23.935 (1.143)	111	2183247			0.00- 95.73	45.80
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.073	24.073 (1.149)	146	4722676	50.0000	55.150	50.00- 150.00	100.00
24.073	24.073 (1.149)	148	2994737			11.83- 111.83	63.41
24.073	24.073 (1.149)	111	2076490			0.00- 94.91	43.97
158 alpha-Chlorotoluene					CAS #: 100-44-7		
24.239	24.239 (1.157)	91	7815605	50.0000	60.890	50.00- 150.00	100.00
24.239	24.239 (1.157)	126	1493095			0.00- 71.00	19.10

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
24.570	24.571 (1.173)	146	4223910	50.0000	54.492	50.00- 150.00	100.00
24.570	24.571 (1.173)	148	2655320			11.41- 111.41	62.86
24.570	24.571 (1.173)	111	1986625			0.00- 95.44	47.03
166 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
26.700	26.700 (1.275)	180	2811027	50.0000	55.962	50.00- 150.00	100.00
26.700	26.700 (1.275)	182	2629055			46.69- 146.69	93.53
167 Hexachlorobutadiene					CAS #: 87-68-3		
26.782	26.783 (1.278)	225	2187442	50.0000	53.993	50.00- 150.00	100.00
26.782	26.783 (1.278)	223	1380129			14.15- 114.15	63.09
168 Naphthalene					CAS #: 91-20-3		
27.114	27.114 (1.294)	128	6337142	50.0000	55.324	50.00- 150.00	100.00
27.114	27.114 (1.294)	127	821808			0.00- 65.25	12.97
29 Isopentane					CAS #: 78-78-4		
9.142	9.142 (0.604)	43	1726255	50.0000	50.005	50.00- 150.00	100.00
9.142	9.142 (0.604)	57	1054886			9.74- 109.74	61.11
20 Butane					CAS #: 106-97-8		
6.598	6.598 (0.436)	58	190673	50.0000	49.919	50.00- 150.00	100.00
6.598	6.598 (0.436)	43	1586811			830.20- 930.20	832.22
99 Methyl Cyclohexane					CAS #: 108-87-2		
17.216	17.216 (1.137)	83	2796319	50.0000	51.795	50.00- 150.00	100.00
17.216	17.216 (1.137)	98	1335441			0.00- 99.54	47.76
17.216	17.216 (1.137)	55	3697163			81.83- 181.83	132.22
58 tert-Butyl-Alcohol					CAS #: 75-65-0		
12.819	12.847 (0.847)	59	1142071	50.0000	48.223	50.00- 150.00	100.00
12.819	12.847 (0.847)	41	276354			0.00- 75.27	24.20
12.847	12.847 (0.848)	57	126915			0.00- 64.67	11.11

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y093010.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msdy.i/30sep08.b/t14q930a.m
Misc Info: 200ppbv->50ppbv

Calibration Date: 30-SEP-2008
Calibration Time: 22:22
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	366277	219766	512788	366277	0.00
95 1,4-Difluorobenze	1847900	1108740	2587060	1847900	0.00
123 Chlorobenzene-d5	1826829	1096097	2557561	1826829	0.00

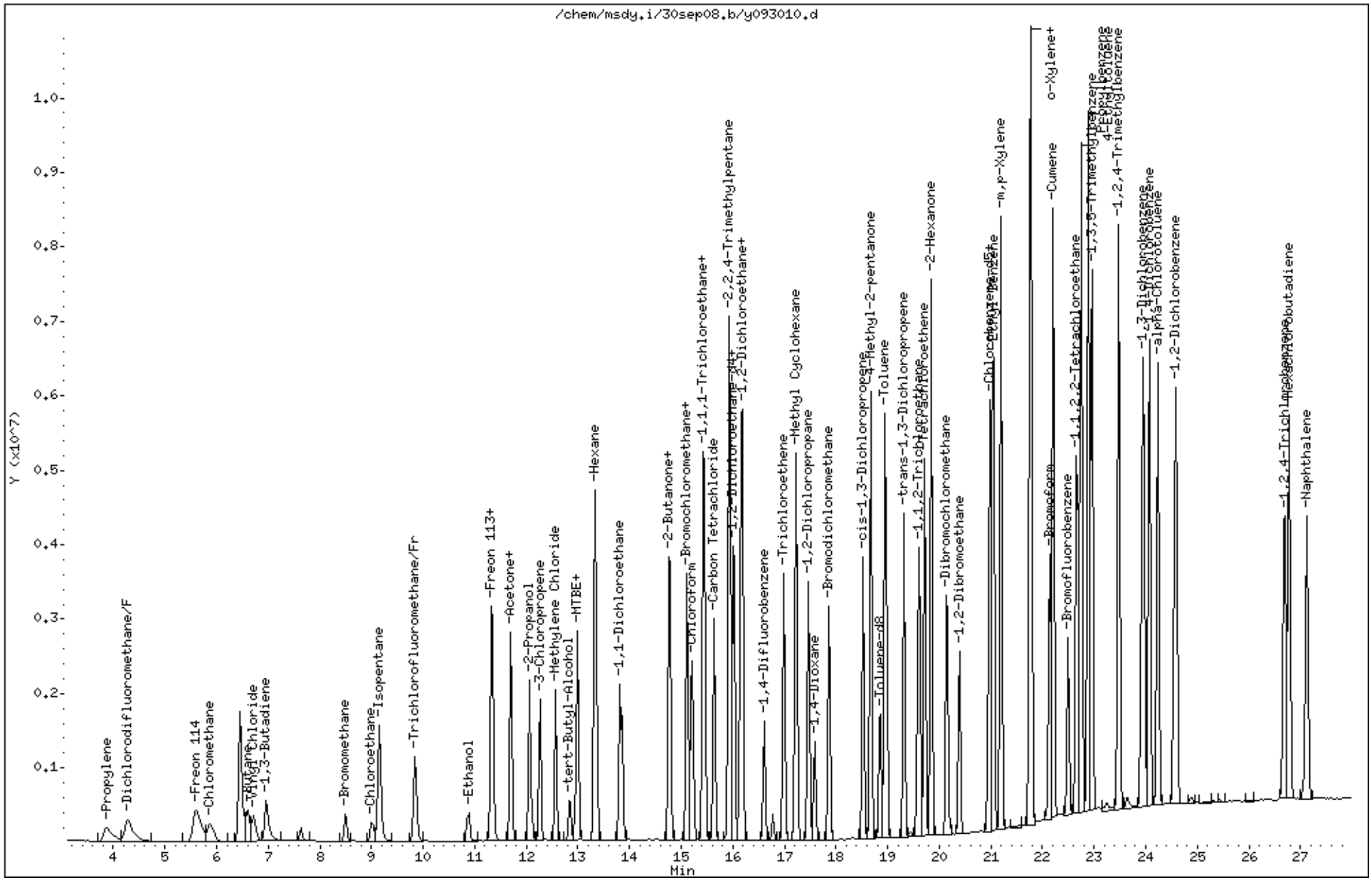
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	15.14	14.81	15.47	15.14	0.00
95 1,4-Difluorobenze	16.61	16.28	16.94	16.61	0.00
123 Chlorobenzene-d5	20.95	20.62	21.28	20.95	0.00

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: /chem/msdy.i/30sep08.b/y093010.d
Date : 30-SEP-2008 22:22
Client ID: Level 5
Sample Info: 50ml #1612-158

Instrument: msdy.i
Operator: kr
Column diameter: 0.53

Column phase: RTx-624



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AMBIENT AIR METHOD TO14

Data file : /chem/msdy.i/30sep08.b/y093011.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 30-SEP-2008 23:01
Operator : kr Inst ID: msdy.i
Smp Info : 100ml #1612-158
Misc Info : 200ppbv->100ppbv
Comment :
Method : /chem/msdy.i/30sep08.b/t14q930a.m
Meth Date : 01-Oct-2008 07:50 dpage Quant Type: ISTD
Cal Date : 30-SEP-2008 23:01 Cal File: y093011.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 80 Bromochloromethane					CAS #: 74-97-5		
15.142	15.142 (1.000)	130	350688	25.0000		80.00- 120.00	100.00
15.142	15.142 (1.000)	128	276749			28.15- 128.15	78.92
15.142	15.142 (1.000)	49	1094113			255.80- 355.80	311.99
* 95 1,4-Difluorobenzene					CAS #: 540-36-3		
16.607	16.607 (1.000)	114	1825269	25.0000		80.00- 120.00	100.00
16.607	16.607 (1.000)	88	332480			0.00- 68.22	18.22
* 123 Chlorobenzene-d5					CAS #: 3114-55-4		
20.948	20.948 (1.000)	117	1731864	25.0000		80.00- 120.00	100.00
20.948	20.948 (1.000)	82	1103760			13.32- 113.32	63.73
$ 89 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.027	16.027 (1.058)	65	753044	25.0000	24.958	80.00- 120.00	100.00
16.027	16.027 (1.058)	67	349524			0.00- 96.20	46.41
$ 111 Toluene-d8					CAS #: 2037-26-5		
18.875	18.875 (1.137)	98	1892004	25.0000	25.035	80.00- 120.00	100.00
18.847	18.847 (1.135)	70	230544			0.00- 62.19	12.19

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 111 Toluene-d8 (continued)							
18.875	18.875 (1.137)	100	1303759			18.83- 118.83	68.91
$ 135 Bromofluorobenzene					CAS #: 460-00-4		
22.497	22.497 (1.074)	174	969402	25.0000	25.681	80.00- 120.00	100.00
22.497	22.497 (1.074)	95	1554897			109.78- 209.78	160.40
22.497	22.497 (1.074)	176	928928			45.25- 145.25	95.82
5 Propylene					CAS #: 115-07-1		
3.889	3.889 (0.257)	41	1307316	100.000	97.170	80.00- 120.00	100.00
3.889	3.889 (0.257)	42	869035			16.55- 116.55	66.47
3.889	3.889 (0.257)	39	1043263			33.88- 133.88	79.80
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.276	4.276 (0.282)	85	3416591	100.000	98.087	80.00- 120.00	100.00
4.276	4.276 (0.282)	87	1083770			0.00- 83.90	31.72
11 Freon 114					CAS #: 76-14-2		
5.603	5.603 (0.370)	135	2002145	100.000	100.54	80.00- 120.00	100.00
5.603	5.603 (0.370)	137	632196			0.00- 80.91	31.58
15 Chloromethane					CAS #: 74-87-3		
5.907	5.879 (0.390)	50	1721874	100.000	98.063	80.00- 120.00	100.00
5.907	5.907 (0.390)	52	522300			0.00- 82.13	30.33
22 Vinyl Chloride					CAS #: 75-01-4		
6.709	6.709 (0.443)	62	1547109	100.000	95.400	80.00- 120.00	100.00
6.709	6.709 (0.443)	64	466958			0.00- 80.05	30.18
23 1,3-Butadiene					CAS #: 106-99-0		
6.985	6.958 (0.461)	54	1420617	100.000	84.349	80.00- 120.00	100.00
6.985	6.958 (0.461)	39	1597768			86.43- 186.43	112.47
25 Bromomethane					CAS #: 74-83-9		
8.506	8.479 (0.562)	94	1015882	100.000	105.06	80.00- 120.00	100.00
8.506	8.479 (0.562)	96	959330			44.91- 144.91	94.43
28 Chloroethane					CAS #: 75-00-3		
9.032	9.004 (0.596)	64	869110	100.000	106.71	80.00- 120.00	100.00
9.004	9.004 (0.595)	49	338062			0.00- 88.71	38.90
9.032	9.004 (0.596)	66	251000			0.00- 87.42	28.88
33 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.833	9.833 (0.649)	101	4081493	100.000	99.870	80.00- 120.00	100.00
9.833	9.833 (0.649)	103	2641459			14.02- 114.02	64.72

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
10.884	10.884 (0.719)	45	1157692	100.000	90.035	80.00- 120.00	100.00
10.884	10.884 (0.719)	46	478848			0.00- 91.71	41.36
10.884	10.884 (0.719)	43	233961			0.00- 70.36	20.21
44 Freon 113					CAS #: 76-13-1		
11.354	11.354 (0.750)	151	1941841	100.000	85.581	80.00- 120.00	100.00
11.354	11.354 (0.750)	153	1223510			12.55- 112.55	63.01
11.354	11.354 (0.750)	101	2557613			82.67- 182.67	131.71
42 1,1-Dichloroethene					CAS #: 75-35-4		
11.326	11.326 (0.748)	61	4172242	100.000	85.241	80.00- 120.00	100.00
11.354	11.326 (0.750)	96	1594650			0.00- 89.38	38.22
11.354	11.326 (0.750)	98	1002022			0.00- 74.69	24.02
47 Acetone					CAS #: 67-64-1		
11.686	11.686 (0.772)	58	1581058	100.000	96.170	80.00- 120.00	100.00
11.686	11.686 (0.772)	43	6199480			344.44- 444.44	392.11
50 2-Propanol					CAS #: 67-63-0		
12.073	12.073 (0.797)	45	7709727	100.000	91.026	80.00- 120.00	100.00
12.073	12.073 (0.797)	43	1378100			0.00- 68.05	17.87
12.073	12.073 (0.797)	59	245002			0.00- 53.27	3.18
46 Carbon Disulfide					CAS #: 75-15-0		
11.714	11.714 (0.774)	76	4980016	100.000	98.625	80.00- 120.00	100.00
53 3-Chloropropene					CAS #: 107-05-1		
12.267	12.267 (0.810)	76	903561	100.000	119.70	80.00- 120.00	100.00
12.267	12.267 (0.810)	41	4847499			483.20- 583.20	536.49
56 Methylene Chloride					CAS #: 75-09-2		
12.571	12.571 (0.830)	49	3925056	100.000	93.956	80.00- 120.00	100.00
12.571	12.571 (0.830)	84	1540050			0.00- 89.02	39.24
12.571	12.571 (0.830)	51	1169173			0.00- 80.60	29.79
60 MTBE					CAS #: 1634-04-4		
12.958	12.958 (0.856)	73	1183868	100.000	95.388	80.00- 120.00	100.00
12.958	12.958 (0.856)	57	412943			0.00- 85.34	34.88
12.958	12.958 (0.856)	41	412291			0.00- 86.90	34.83
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
12.985	12.985 (0.858)	96	2343017	100.000	102.69	80.00- 120.00	100.00
12.985	12.985 (0.858)	61	5100585			167.75- 267.75	217.69
12.985	12.985 (0.858)	98	1468279			15.63- 115.63	62.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
13.345	13.345 (0.881)	57	6545843	100.000	101.31	80.00- 120.00	100.00
13.345	13.345 (0.881)	43	4823152			23.48- 123.48	73.68
13.345	13.345 (0.881)	86	716236			0.00- 61.00	10.94
67 1,1-Dichloroethane					CAS #: 75-34-3		
13.815	13.815 (0.912)	63	5983460	100.000	112.71	80.00- 120.00	100.00
13.815	13.815 (0.912)	65	1747653			0.00- 79.76	29.21
75 2-Butanone					CAS #: 78-93-3		
14.783	14.783 (0.976)	72	1382464	100.000	104.19	80.00- 120.00	100.00
14.783	14.783 (0.976)	43	10282480			681.94- 781.94	743.78
14.783	14.783 (0.976)	57	703014			4.23- 104.23	50.85
74 cis-1,2-Dichloroethene					CAS #: 156-59-2		
14.755	14.755 (0.974)	61	4951884	100.000	101.67	80.00- 120.00	100.00
14.755	14.755 (0.974)	96	2484147			1.40- 101.40	50.17
14.755	14.755 (0.974)	98	1592085			0.00- 82.65	32.15
79 Tetrahydrofuran					CAS #: 109-99-9		
15.114	15.114 (0.998)	42	6180690	100.000	106.42	80.00- 120.00	100.00
15.114	15.114 (0.998)	71	1307338			0.00- 71.05	21.15
15.114	15.114 (0.998)	72	1395237			0.00- 72.55	22.57
82 Chloroform					CAS #: 67-66-3		
15.225	15.225 (1.005)	83	5390792	100.000	104.16	80.00- 120.00	100.00
15.225	15.225 (1.005)	85	3457854			13.81- 113.81	64.14
84 1,1,1-Trichloroethane					CAS #: 71-55-6		
15.446	15.446 (1.020)	97	4768480	100.000	119.21	80.00- 120.00	100.00
15.446	15.446 (1.020)	99	3021848			13.33- 113.33	63.37
83 Cyclohexane					CAS #: 110-82-7		
15.419	15.419 (1.018)	84	3288979	100.000	93.235	80.00- 120.00	100.00
15.419	15.419 (1.018)	56	6295193			140.62- 240.62	191.40
15.419	15.419 (1.018)	41	3818835			64.99- 164.99	116.11
85 Carbon Tetrachloride					CAS #: 56-23-5		
15.640	15.640 (1.033)	119	4706397	100.000	102.63	80.00- 120.00	100.00
15.640	15.640 (1.033)	117	4932382			55.13- 155.13	104.80
88 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.916	15.916 (1.051)	57	22561817	100.000	105.21	80.00- 120.00	100.00
15.916	15.916 (1.051)	56	7182844			0.00- 82.06	31.84
15.916	15.916 (1.051)	41	6372602			0.00- 79.19	28.25

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
90 Benzene					CAS #: 71-43-2		
15.999	15.999 (0.963)	78	8623607	100.000	73.854	80.00- 120.00	100.00
15.999	15.999 (0.963)	77	1957911			0.00- 72.94	22.70
92 1,2-Dichloroethane					CAS #: 107-06-2		
16.137	16.137 (0.972)	62	5312112	100.000	102.59	80.00- 120.00	100.00
16.137	16.137 (0.972)	64	1635242			0.00- 82.17	30.78
94 Heptane					CAS #: 142-82-5		
16.193	16.193 (0.975)	71	3187185	100.000	95.825	80.00- 120.00	100.00
16.193	16.193 (0.975)	43	9953530			254.97- 354.97	312.30
16.193	16.193 (0.975)	57	4537288			87.76- 187.76	142.36
97 Trichloroethene					CAS #: 79-01-6		
16.995	16.995 (1.023)	95	3624098	100.000	97.578	80.00- 120.00	100.00
16.995	16.995 (1.023)	130	3293027			41.86- 141.86	90.86
16.995	16.995 (1.023)	97	2332882			14.77- 114.77	64.37
101 1,2-Dichloropropane					CAS #: 78-87-5		
17.465	17.465 (1.052)	63	4154098	100.000	99.713	80.00- 120.00	100.00
17.465	17.465 (1.052)	62	3016570			22.04- 122.04	72.62
17.465	17.465 (1.052)	41	3225545			27.21- 127.21	77.65
103 1,4-Dioxane					CAS #: 123-91-1		
17.603	17.603 (1.060)	88	2324720	100.000	104.31	80.00- 120.00	100.00
17.603	17.603 (1.060)	58	2549238			61.56- 161.56	109.66
17.603	17.603 (1.060)	57	811622			0.00- 85.51	34.91
105 Bromodichloromethane					CAS #: 75-27-4		
17.852	17.852 (1.075)	83	6163126	100.000	100.26	80.00- 120.00	100.00
17.852	17.852 (1.075)	85	3909519			13.62- 113.62	63.43
109 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.515	18.515 (1.115)	75	5330230	100.000	103.57	80.00- 120.00	100.00
18.515	18.515 (1.115)	77	1667862			0.00- 81.37	31.29
18.515	18.515 (1.115)	39	4528180			35.04- 135.04	84.95
110 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.681	18.681 (1.125)	58	4630962	100.000	100.02	80.00- 120.00	100.00
18.681	18.681 (1.125)	43	14133867			246.81- 346.81	305.20
18.681	18.681 (1.125)	85	1353649			0.00- 80.93	29.23
112 Toluene					CAS #: 108-88-3		
18.958	18.958 (1.141)	91	10480797	100.000	99.007	80.00- 120.00	100.00
18.958	18.958 (1.141)	92	6305802			10.59- 110.59	60.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.317	19.317 (0.922)	75	5850772	100.000	115.42	80.00- 120.00	100.00
19.317	19.317 (0.922)	77	1812728			0.00- 81.37	30.98
19.317	19.317 (0.922)	39	4574585			28.93- 128.93	78.19
116 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.594	19.594 (0.935)	97	3645956	100.000	100.06	80.00- 120.00	100.00
19.594	19.594 (0.935)	99	2263139			11.69- 111.69	62.07
19.594	19.594 (0.935)	83	3121318			35.40- 135.40	85.61
117 Tetrachloroethene					CAS #: 127-18-4		
19.704	19.704 (0.941)	166	4321366	100.000	97.324	80.00- 120.00	100.00
19.704	19.704 (0.941)	129	3202065			25.39- 125.39	74.10
19.704	19.704 (0.941)	131	3172864			23.62- 123.62	73.42
119 2-Hexanone					CAS #: 591-78-6		
19.842	19.842 (0.947)	58	7424302	100.000	108.31	80.00- 120.00	100.00
19.842	19.842 (0.947)	43	16141296			165.39- 265.39	217.41
19.842	19.842 (0.947)	100	1054588			0.00- 64.00	14.20
121 Dibromochloromethane					CAS #: 124-48-1		
20.174	20.174 (0.963)	129	5598770	100.000	100.42	80.00- 120.00	100.00
20.174	20.174 (0.963)	127	4406576			28.55- 128.55	78.71
122 1,2-Dibromoethane					CAS #: 106-93-4		
20.395	20.395 (0.974)	107	5788581	100.000	98.974	80.00- 120.00	100.00
20.395	20.395 (0.974)	109	5427347			43.80- 143.80	93.76
124 Chlorobenzene					CAS #: 108-90-7		
21.004	21.004 (1.003)	112	9081473	100.000	97.271	80.00- 120.00	100.00
21.004	21.004 (1.003)	114	2813771			0.00- 81.27	30.98
20.976	20.976 (1.001)	77	7283164			29.47- 129.47	80.20
125 Ethyl Benzene					CAS #: 100-41-4		
21.059	21.059 (1.005)	106	4881625	100.000	98.449	80.00- 120.00	100.00
21.059	21.059 (1.005)	91	16467540			278.40- 378.40	337.34
128 m,p-Xylene					CAS #: 108-38-3		
21.197	21.197 (1.012)	106	6265938	100.000	100.01	80.00- 120.00	100.00
21.197	21.197 (1.012)	91	13379951			159.22- 259.22	213.53
129 o-Xylene					CAS #: 95-47-6		
21.750	21.750 (1.038)	106	5512467	100.000	96.963	80.00- 120.00	100.00
21.750	21.750 (1.038)	91	12511463			171.97- 271.97	226.97
130 Styrene					CAS #: 100-42-5		
21.778	21.778 (1.040)	104	9664813	100.000	98.422	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
130 Styrene (continued)							
21.778	21.778 (1.040)	78	5287795			3.30- 103.30	54.71
132 Bromoform					CAS #: 75-25-2		
22.137	22.137 (1.057)	173	5514180	100.000	104.65	80.00- 120.00	100.00
22.137	22.137 (1.057)	171	2855669			1.41- 101.41	51.79
133 Cumene					CAS #: 98-82-8		
22.193	22.193 (1.059)	105	17375669	100.000	95.367	80.00- 120.00	100.00
22.193	22.193 (1.059)	120	4258662			0.00- 75.11	24.51
22.193	22.193 (1.059)	51	2886145			0.00- 67.68	16.61
136 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
22.663	22.663 (1.082)	83	9118620	100.000	110.15	80.00- 120.00	100.00
22.663	22.663 (1.082)	85	5734716			13.69- 113.69	62.89
139 Propylbenzene					CAS #: 103-65-1		
22.746	22.746 (1.086)	91	22710309	100.000	107.62	80.00- 120.00	100.00
22.746	22.746 (1.086)	120	4629572			0.00- 71.22	20.39
22.746	22.746 (1.086)	105	789357			0.00- 54.12	3.48
142 4-Ethyltoluene					CAS #: 622-96-8		
22.884	22.884 (1.092)	105	19430509	100.000	107.31	80.00- 120.00	100.00
22.884	22.884 (1.092)	120	5334578			0.00- 77.92	27.45
144 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
22.967	22.967 (1.096)	105	19317035	100.000	98.302	80.00- 120.00	100.00
22.967	22.967 (1.096)	120	8257937			0.00- 93.95	42.75
149 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
23.465	23.465 (1.120)	105	15221164	100.000	98.165	80.00- 120.00	100.00
23.465	23.465 (1.120)	120	6491643			0.00- 93.08	42.65
154 1,3-Dichlorobenzene					CAS #: 541-73-1		
23.935	23.935 (1.143)	146	8896490	100.000	109.75	80.00- 120.00	100.00
23.935	23.935 (1.143)	148	5540639			12.34- 112.34	62.28
23.935	23.935 (1.143)	111	4070534			0.00- 95.73	45.75
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.073	24.073 (1.149)	146	8839252	100.000	108.88	80.00- 120.00	100.00
24.073	24.073 (1.149)	148	5585191			11.83- 111.83	63.19
24.073	24.073 (1.149)	111	3891274			0.00- 94.91	44.02
158 alpha-Chlorotoluene					CAS #: 100-44-7		
24.239	24.239 (1.157)	91	15455591	100.000	127.01	80.00- 120.00	100.00
24.239	24.239 (1.157)	126	2900112			0.00- 71.00	18.76

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
24.570	24.570 (1.173)	146	7935798	100.000	107.99	80.00- 120.00	100.00
24.570	24.570 (1.173)	148	5002477			12.86- 112.86	63.04
24.570	24.570 (1.173)	111	3747108			0.00- 97.03	47.22
166 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
26.700	26.700 (1.275)	180	5641222	100.000	118.46	80.00- 120.00	100.00
26.700	26.700 (1.275)	182	5285545			43.53- 143.53	93.70
167 Hexachlorobutadiene					CAS #: 87-68-3		
26.782	26.782 (1.278)	225	4241905	100.000	110.44	80.00- 120.00	100.00
26.782	26.782 (1.278)	223	2668569			14.15- 114.15	62.91
168 Naphthalene					CAS #: 91-20-3		
27.114	27.114 (1.294)	128	13240444	100.000	121.93	80.00- 120.00	100.00
27.114	27.114 (1.294)	127	1694568			0.00- 65.25	12.80
29 Isopentane					CAS #: 78-78-4		
9.142	9.142 (0.604)	43	3060305	100.000	92.590	80.00- 120.00	100.00
9.142	9.142 (0.604)	57	1863960			9.74- 109.74	60.91
20 Butane					CAS #: 106-97-8		
6.598	6.598 (0.436)	58	355740	100.000	97.274	80.00- 120.00	100.00
6.598	6.598 (0.436)	43	3065875			830.20- 930.20	861.83
99 Methyl Cyclohexane					CAS #: 108-87-2		
17.216	17.216 (1.137)	83	5161701	100.000	99.857	80.00- 120.00	100.00
17.216	17.216 (1.137)	98	2443622			0.00- 99.54	47.34
17.216	17.216 (1.137)	55	6883040			81.83- 181.83	133.35
58 tert-Butyl-Alcohol					CAS #: 75-65-0		
12.819	12.819 (0.847)	59	1836464	100.000	80.991	80.00- 120.00	100.00
12.819	12.819 (0.847)	41	448276			0.00- 75.27	24.41
12.819	12.847 (0.847)	57	203192			0.00- 64.67	11.06

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y093011.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msdy.i/30sep08.b/t14q930a.m
Misc Info: 200ppbv->100ppbv

Calibration Date: 30-SEP-2008
Calibration Time: 22:22
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	366277	219766	512788	350688	-4.26
95 1,4-Difluorobenze	1847900	1108740	2587060	1825269	-1.22
123 Chlorobenzene-d5	1826829	1096097	2557561	1731864	-5.20

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	15.14	14.81	15.47	15.14	0.00
95 1,4-Difluorobenze	16.61	16.28	16.94	16.61	0.00
123 Chlorobenzene-d5	20.95	20.62	21.28	20.95	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.

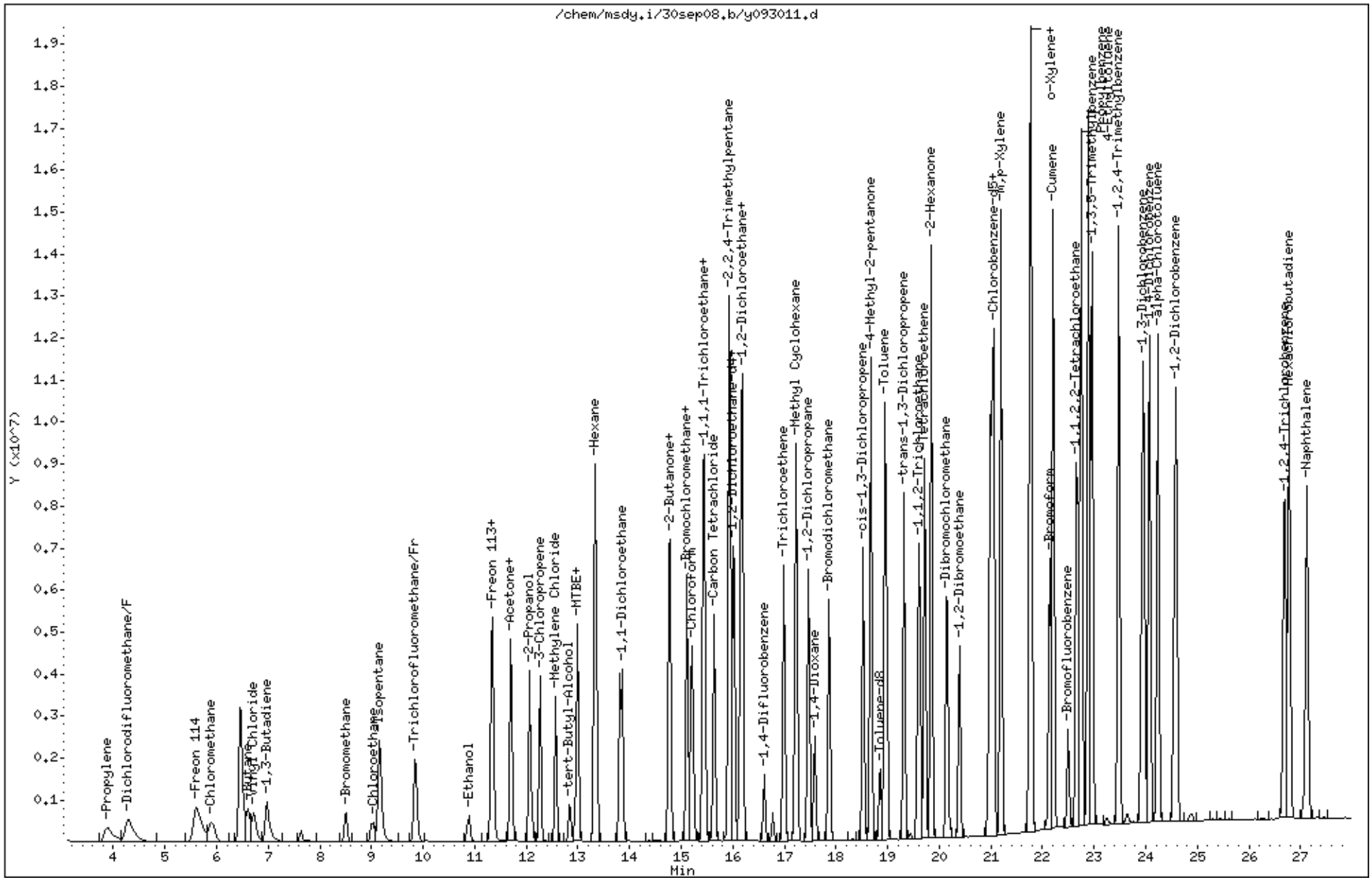
0197

Data File: /chem/msdy.i/30sep08.b/y093011.d
Date : 30-SEP-2008 23:01
Client ID: Level 6
Sample Info: 100ml #1612-158

Instrument: msdy.i

Operator: kr
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdy.i/30sep08.b/y093012.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 30-SEP-2008 23:37
Operator : kr Inst ID: msdy.i
Smp Info : 200ml #1612-158
Misc Info : 200ppbv->200ppbv
Comment :
Method : /chem/msdy.i/30sep08.b/t14q930a.m
Meth Date : 01-Oct-2008 07:50 dpage Quant Type: ISTD
Cal Date : 30-SEP-2008 23:37 Cal File: y093012.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 80 Bromochloromethane					CAS #: 74-97-5		
15.142	15.142 (1.000)	130	324030	25.0000		50.00- 150.00	100.00
15.142	15.142 (1.000)	128	256660			28.44- 128.44	79.21
15.142	15.142 (1.000)	49	1027485			256.20- 356.20	317.09
* 95 1,4-Difluorobenzene					CAS #: 540-36-3		
16.607	16.607 (1.000)	114	1844874	25.0000		50.00- 150.00	100.00
16.607	16.607 (1.000)	88	330985			0.00- 68.05	17.94
* 123 Chlorobenzene-d5					CAS #: 3114-55-4		
20.948	20.948 (1.000)	117	1723908	25.0000		50.00- 150.00	100.00
20.948	20.948 (1.000)	82	1092796			13.32- 113.32	63.39
$ 89 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.027	16.027 (1.058)	65	755376	25.0000	27.095	50.00- 150.00	100.00
16.027	16.027 (1.058)	67	347379			0.00- 96.20	45.99
$ 111 Toluene-d8					CAS #: 2037-26-5		
18.875	18.875 (1.137)	98	1910530	25.0000	25.012	50.00- 150.00	100.00
18.875	18.847 (1.137)	70	231213			0.00- 62.19	12.10

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 111 Toluene-d8 (continued)							
18.875	18.875 (1.137)	100	1312059			18.83- 118.83	68.68
$ 135 Bromofluorobenzene					CAS #: 460-00-4		
22.497	22.497 (1.074)	174	997405	25.0000	26.544	50.00- 150.00	100.00
22.497	22.497 (1.074)	95	1571225			112.09- 212.09	157.53
22.497	22.497 (1.074)	176	960668			46.24- 146.24	96.32
5 Propylene					CAS #: 115-07-1		
3.916	3.889 (0.259)	41	2513961	200.000	202.23	50.00- 150.00	100.00(A)
3.916	3.889 (0.259)	42	1699771			16.55- 116.55	67.61
3.916	3.889 (0.259)	39	2023478			33.88- 133.88	80.49
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.303	4.276 (0.284)	85	6601946	200.000	205.13	50.00- 150.00	100.00(A)
4.303	4.276 (0.284)	87	2119477			0.00- 83.90	32.10
11 Freon 114					CAS #: 76-14-2		
5.603	5.603 (0.370)	135	3925811	200.000	213.36	50.00- 150.00	100.00(A)
5.603	5.603 (0.370)	137	1256892			0.00- 77.65	32.02
15 Chloromethane					CAS #: 74-87-3		
5.935	5.907 (0.392)	50	3361972	200.000	207.22	50.00- 150.00	100.00(A)
5.935	5.907 (0.392)	52	1030622			0.00- 82.13	30.66
22 Vinyl Chloride					CAS #: 75-01-4		
6.709	6.709 (0.443)	62	3053251	200.000	203.76	50.00- 150.00	100.00(A)
6.709	6.709 (0.443)	64	922223			0.00- 80.05	30.20
23 1,3-Butadiene					CAS #: 106-99-0		
6.985	6.985 (0.461)	54	2775908	200.000	178.38	50.00- 150.00	100.00
6.985	6.985 (0.461)	39	3125021			86.43- 186.43	112.58
25 Bromomethane					CAS #: 74-83-9		
8.506	8.506 (0.562)	94	2001966	200.000	224.08	50.00- 150.00	100.00(A)
8.506	8.506 (0.562)	96	1866620			48.56- 148.56	93.24
28 Chloroethane					CAS #: 75-00-3		
9.031	9.032 (0.596)	64	1770016	200.000	235.20	50.00- 150.00	100.00(A)
9.004	9.004 (0.595)	49	688894			0.00- 88.71	38.92
9.031	9.032 (0.596)	66	512957			0.00- 87.42	28.98
33 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.833	9.833 (0.649)	101	7855794	200.000	208.04	50.00- 150.00	100.00(A)
9.833	9.833 (0.649)	103	5011396			15.82- 115.82	63.79

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
10.884	10.884 (0.719)	45	2121142	200.000	178.54	50.00- 150.00	100.00
10.884	10.884 (0.719)	46	862682			0.00- 91.71	40.67
10.884	10.884 (0.719)	43	433405			0.00- 70.36	20.43
44 Freon 113					CAS #: 76-13-1		
11.354	11.354 (0.750)	151	3610050	200.000	172.19	50.00- 150.00	100.00
11.354	11.354 (0.750)	153	2266127			12.67- 112.67	62.77
11.354	11.354 (0.750)	101	4718791			80.55- 180.55	130.71
42 1,1-Dichloroethene					CAS #: 75-35-4		
11.354	11.326 (0.750)	61	7068876	200.000	156.30	50.00- 150.00	100.00
11.354	11.354 (0.750)	96	2686264			0.00- 90.72	38.00
11.354	11.354 (0.750)	98	1694072			0.00- 76.03	23.97
47 Acetone					CAS #: 67-64-1		
11.686	11.686 (0.772)	58	2675283	200.000	176.12	50.00- 150.00	100.00
11.686	11.686 (0.772)	43	10717664			344.44- 444.44	400.62
50 2-Propanol					CAS #: 67-63-0		
12.073	12.073 (0.797)	45	12917311	200.000	165.06	50.00- 150.00	100.00
12.073	12.073 (0.797)	43	2271676			0.00- 68.05	17.59
12.073	12.073 (0.797)	59	411382			0.00- 53.27	3.18
46 Carbon Disulfide					CAS #: 75-15-0		
11.713	11.714 (0.774)	76	8677329	200.000	185.98	50.00- 150.00	100.00
53 3-Chloropropene					CAS #: 107-05-1		
12.266	12.267 (0.810)	76	1512314	200.000	216.84	50.00- 150.00	100.00(A)
12.266	12.267 (0.810)	41	8138717			483.20- 583.20	538.16
56 Methylene Chloride					CAS #: 75-09-2		
12.571	12.571 (0.830)	49	6795466	200.000	176.05	50.00- 150.00	100.00
12.571	12.571 (0.830)	84	2640177			0.00- 90.49	38.85
12.571	12.571 (0.830)	51	2024542			0.00- 80.60	29.79
60 MTBE					CAS #: 1634-04-4		
12.958	12.958 (0.856)	73	1996282	200.000	174.08	50.00- 150.00	100.00
12.958	12.958 (0.856)	57	704185			0.00- 90.40	35.27
12.958	12.958 (0.856)	41	670294			0.00- 86.90	33.58
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
12.985	12.985 (0.858)	96	4198937	200.000	199.16	50.00- 150.00	100.00
12.985	12.985 (0.858)	61	9411142			168.31- 268.31	224.13
12.985	12.985 (0.858)	98	2658388			15.63- 115.63	63.31

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
13.345	13.345 (0.881)	57	12459417	200.000	208.71	50.00- 150.00	100.00(A)
13.345	13.345 (0.881)	43	9083609			23.48- 123.48	72.91
13.345	13.345 (0.881)	86	1371359			0.00- 61.00	11.01
67 1,1-Dichloroethane					CAS #: 75-34-3		
13.815	13.815 (0.912)	63	10898342	200.000	222.18	50.00- 150.00	100.00(A)
13.815	13.815 (0.912)	65	3116018			0.00- 79.55	28.59
75 2-Butanone					CAS #: 78-93-3		
14.783	14.783 (0.976)	72	2607166	200.000	212.66	50.00- 150.00	100.00(A)
14.783	14.783 (0.976)	43	19822400			672.62- 772.62	760.30
14.783	14.783 (0.976)	57	1319819			4.23- 104.23	50.62
74 cis-1,2-Dichloroethene					CAS #: 156-59-2		
14.755	14.755 (0.974)	61	9417962	200.000	209.28	50.00- 150.00	100.00(A)
14.755	14.755 (0.974)	96	4583068			1.46- 101.46	48.66
14.755	14.755 (0.974)	98	2904785			0.00- 82.67	30.84
79 Tetrahydrofuran					CAS #: 109-99-9		
15.114	15.114 (0.998)	42	11846683	200.000	220.77	50.00- 150.00	100.00(A)
15.114	15.114 (0.998)	71	2451089			0.00- 71.85	20.69
15.114	15.114 (0.998)	72	2671753			0.00- 72.55	22.55
82 Chloroform					CAS #: 67-66-3		
15.225	15.225 (1.005)	83	10288289	200.000	215.14	50.00- 150.00	100.00(A)
15.225	15.225 (1.005)	85	6548374			15.32- 115.32	63.65
84 1,1,1-Trichloroethane					CAS #: 71-55-6		
15.446	15.446 (1.020)	97	8578997	200.000	232.12	50.00- 150.00	100.00(A)
15.446	15.446 (1.020)	99	5401262			15.99- 115.99	62.96
83 Cyclohexane					CAS #: 110-82-7		
15.418	15.419 (1.018)	84	5733417	200.000	175.90	50.00- 150.00	100.00
15.418	15.419 (1.018)	56	11080467			136.20- 236.20	193.26
15.418	15.419 (1.018)	41	6719570			63.21- 163.21	117.20
85 Carbon Tetrachloride					CAS #: 56-23-5		
15.640	15.640 (1.033)	119	8734489	200.000	206.13	50.00- 150.00	100.00(A)
15.640	15.640 (1.033)	117	9176068			53.35- 153.35	105.06
88 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.916	15.916 (1.051)	57	35615614	200.000	179.74	50.00- 150.00	100.00
15.916	15.916 (1.051)	56	13482362			0.00- 82.06	37.86
15.916	15.916 (1.051)	41	12178349			0.00- 79.19	34.19

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
90 Benzene					CAS #: 71-43-2		
16.027	15.999 (0.965)	78	16659916	200.000	141.16	50.00- 150.00	100.00
16.027	15.999 (0.965)	77	3766168			0.00- 72.94	22.61
92 1,2-Dichloroethane					CAS #: 107-06-2		
16.137	16.137 (0.972)	62	10306858	200.000	196.93	50.00- 150.00	100.00
16.137	16.137 (0.972)	64	3135570			0.00- 82.17	30.42
94 Heptane					CAS #: 142-82-5		
16.193	16.193 (0.975)	71	5882344	200.000	174.98	50.00- 150.00	100.00
16.193	16.193 (0.975)	43	18452185			254.97- 354.97	313.69
16.193	16.193 (0.975)	57	8352591			87.76- 187.76	141.99
97 Trichloroethene					CAS #: 79-01-6		
16.994	16.995 (1.023)	95	6756181	200.000	179.98	50.00- 150.00	100.00
16.994	16.995 (1.023)	130	6131568			42.97- 142.97	90.75
16.994	16.995 (1.023)	97	4345589			15.62- 115.62	64.32
101 1,2-Dichloropropane					CAS #: 78-87-5		
17.465	17.465 (1.052)	63	7912139	200.000	187.90	50.00- 150.00	100.00
17.465	17.465 (1.052)	62	5687471			22.56- 122.56	71.88
17.465	17.465 (1.052)	41	6182052			28.76- 128.76	78.13
103 1,4-Dioxane					CAS #: 123-91-1		
17.603	17.603 (1.060)	88	4416958	200.000	196.08	50.00- 150.00	100.00
17.603	17.603 (1.060)	58	4864397			60.31- 160.31	110.13
17.603	17.603 (1.060)	57	1542374			0.00- 85.51	34.92
105 Bromodichloromethane					CAS #: 75-27-4		
17.852	17.852 (1.075)	83	11864541	200.000	190.95	50.00- 150.00	100.00
17.852	17.852 (1.075)	85	7442101			14.40- 114.40	62.73
109 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.515	18.515 (1.115)	75	10237884	200.000	196.82	50.00- 150.00	100.00
18.515	18.515 (1.115)	77	3155641			0.00- 81.53	30.82
18.515	18.515 (1.115)	39	8785111			33.47- 133.47	85.81
110 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.681	18.681 (1.125)	58	8678773	200.000	185.46	50.00- 150.00	100.00
18.681	18.681 (1.125)	43	24929935			246.81- 346.81	287.25
18.681	18.681 (1.125)	85	2549842			0.00- 80.93	29.38
112 Toluene					CAS #: 108-88-3		
18.958	18.958 (1.141)	91	20075324	200.000	187.63	50.00- 150.00	100.00
18.958	18.958 (1.141)	92	11828477			10.86- 110.86	58.92

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.317	19.317 (0.922)	75	11324234	200.000	224.44	50.00- 150.00	100.00(A)
19.317	19.317 (0.922)	77	3477396			0.00- 81.70	30.71
19.317	19.317 (0.922)	39	8880831			31.07- 131.07	78.42
116 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.593	19.594 (0.935)	97	6685537	200.000	184.33	50.00- 150.00	100.00
19.593	19.594 (0.935)	99	4113493			12.75- 112.75	61.53
19.593	19.594 (0.935)	83	5720885			36.04- 136.04	85.57
117 Tetrachloroethene					CAS #: 127-18-4		
19.704	19.704 (0.941)	166	7858769	200.000	177.81	50.00- 150.00	100.00
19.704	19.704 (0.941)	129	5869110			26.82- 126.82	74.68
19.704	19.704 (0.941)	131	5763671			23.22- 123.22	73.34
119 2-Hexanone					CAS #: 591-78-6		
19.842	19.842 (0.947)	58	13913485	200.000	203.91	50.00- 150.00	100.00(A)
19.842	19.842 (0.947)	43	25388104			163.36- 263.36	182.47
19.842	19.842 (0.947)	100	1946041			0.00- 64.00	13.99
121 Dibromochloromethane					CAS #: 124-48-1		
20.174	20.174 (0.963)	129	10326618	200.000	186.08	50.00- 150.00	100.00
20.174	20.174 (0.963)	127	8155057			28.55- 128.55	78.97
122 1,2-Dibromoethane					CAS #: 106-93-4		
20.395	20.395 (0.974)	107	10721754	200.000	184.17	50.00- 150.00	100.00
20.395	20.395 (0.974)	109	10004081			46.04- 146.04	93.31
124 Chlorobenzene					CAS #: 108-90-7		
21.004	21.004 (1.003)	112	16818787	200.000	180.98	50.00- 150.00	100.00
21.004	21.004 (1.003)	114	5160663			0.00- 82.11	30.68
21.004	20.976 (1.003)	77	13602320			36.59- 136.59	80.88
125 Ethyl Benzene					CAS #: 100-41-4		
21.059	21.059 (1.005)	106	8812205	200.000	178.54	50.00- 150.00	100.00
21.059	21.059 (1.005)	91	28212790			278.40- 378.40	320.16
128 m,p-Xylene					CAS #: 108-38-3		
21.197	21.197 (1.012)	106	11422156	200.000	183.16	50.00- 150.00	100.00
21.197	21.197 (1.012)	91	24276568			159.22- 259.22	212.54
129 o-Xylene					CAS #: 95-47-6		
21.750	21.750 (1.038)	106	9741948	200.000	172.15	50.00- 150.00	100.00
21.750	21.750 (1.038)	91	22784994			173.83- 273.83	233.89
130 Styrene					CAS #: 100-42-5		
21.778	21.778 (1.040)	104	17370408	200.000	177.71	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 Styrene (continued)							
21.778	21.778 (1.040)	78	9726112			4.23- 104.23	55.99
132 Bromoform					CAS #: 75-25-2		
22.137	22.137 (1.057)	173	10197957	200.000	194.43	50.00- 150.00	100.00
22.137	22.137 (1.057)	171	5263218			2.20- 102.20	51.61
133 Cumene					CAS #: 98-82-8		
22.193	22.193 (1.059)	105	30107618	200.000	166.01	50.00- 150.00	100.00
22.193	22.193 (1.059)	120	7708424			0.00- 75.11	25.60
22.193	22.193 (1.059)	51	5266205			0.00- 67.68	17.49
136 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
22.663	22.663 (1.082)	83	16597820	200.000	201.42	50.00- 150.00	100.00(A)
22.663	22.663 (1.082)	85	10359128			12.62- 112.62	62.41
139 Propylbenzene					CAS #: 103-65-1		
22.746	22.746 (1.086)	91	31267389	200.000	148.86	50.00- 150.00	100.00
22.746	22.746 (1.086)	120	8377789			0.00- 71.22	26.79
22.746	22.746 (1.086)	105	1422243			0.00- 54.12	4.55
142 4-Ethyltoluene					CAS #: 622-96-8		
22.884	22.884 (1.092)	105	29343772	200.000	162.80	50.00- 150.00	100.00
22.884	22.884 (1.092)	120	9541527			0.00- 78.13	32.52
144 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
22.967	22.967 (1.096)	105	36228745	200.000	185.21	50.00- 150.00	100.00
22.967	22.967 (1.096)	120	15430451			0.00- 93.95	42.59
149 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
23.464	23.465 (1.120)	105	28253594	200.000	183.06	50.00- 150.00	100.00
23.464	23.465 (1.120)	120	11715482			0.00- 93.08	41.47
154 1,3-Dichlorobenzene					CAS #: 541-73-1		
23.962	23.935 (1.144)	146	16365405	200.000	202.82	50.00- 150.00	100.00(A)
23.962	23.935 (1.144)	148	10178575			12.34- 112.34	62.20
23.934	23.935 (1.143)	111	7458408			0.00- 95.73	45.57
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.073	24.073 (1.149)	146	16455460	200.000	203.63	50.00- 150.00	100.00(A)
24.073	24.073 (1.149)	148	10246687			11.83- 111.83	62.27
24.073	24.073 (1.149)	111	7127918			0.00- 94.91	43.32
158 alpha-Chlorotoluene					CAS #: 100-44-7		
24.239	24.239 (1.157)	91	27959568	200.000	230.83	50.00- 150.00	100.00(A)
24.239	24.239 (1.157)	126	5485255			0.00- 71.00	19.62

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
24.570	24.570 (1.173)	146	14779169	200.000	202.04	50.00- 150.00	100.00(A)
24.570	24.570 (1.173)	148	9215849			11.41- 111.41	62.36
24.570	24.570 (1.173)	111	6880702			0.00- 95.44	46.56
166 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
26.699	26.700 (1.275)	180	10765501	200.000	227.12	50.00- 150.00	100.00(A)
26.699	26.700 (1.275)	182	9927044			46.69- 146.69	92.21
167 Hexachlorobutadiene					CAS #: 87-68-3		
26.782	26.782 (1.278)	225	7888642	200.000	206.34	50.00- 150.00	100.00(A)
26.782	26.782 (1.278)	223	5009126			14.15- 114.15	63.50
168 Naphthalene					CAS #: 91-20-3		
27.114	27.114 (1.294)	128	26043356	200.000	240.93	50.00- 150.00	100.00(A)
27.114	27.114 (1.294)	127	3292788			0.00- 65.25	12.64
29 Isopentane					CAS #: 78-78-4		
9.142	9.142 (0.604)	43	5642388	200.000	184.76	50.00- 150.00	100.00
9.170	9.142 (0.606)	57	3429026			9.74- 109.74	60.77
20 Butane					CAS #: 106-97-8		
6.598	6.598 (0.436)	58	701825	200.000	207.70	50.00- 150.00	100.00(A)
6.598	6.598 (0.436)	43	5961276			830.20- 930.20	849.40
99 Methyl Cyclohexane					CAS #: 108-87-2		
17.216	17.216 (1.137)	83	9544978	200.000	199.85	50.00- 150.00	100.00
17.216	17.216 (1.137)	98	4541515			0.00- 99.54	47.58
17.216	17.216 (1.137)	55	13039136			81.83- 181.83	136.61
58 tert-Butyl-Alcohol					CAS #: 75-65-0		
12.847	12.819 (0.848)	59	2747169	200.000	131.12	50.00- 150.00	100.00
12.847	12.819 (0.848)	41	666285			0.00- 75.27	24.25
12.847	12.819 (0.848)	57	310383			0.00- 64.67	11.30

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y093012.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msdy.i/30sep08.b/t14q930a.m
Misc Info: 200ppbv->200ppbv

Calibration Date: 30-SEP-2008
Calibration Time: 22:22
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	366277	219766	512788	324030	-11.53
95 1,4-Difluorobenze	1847900	1108740	2587060	1844874	-0.16
123 Chlorobenzene-d5	1826829	1096097	2557561	1723908	-5.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	15.14	14.81	15.47	15.14	0.00
95 1,4-Difluorobenze	16.61	16.28	16.94	16.61	0.00
123 Chlorobenzene-d5	20.95	20.62	21.28	20.95	0.00

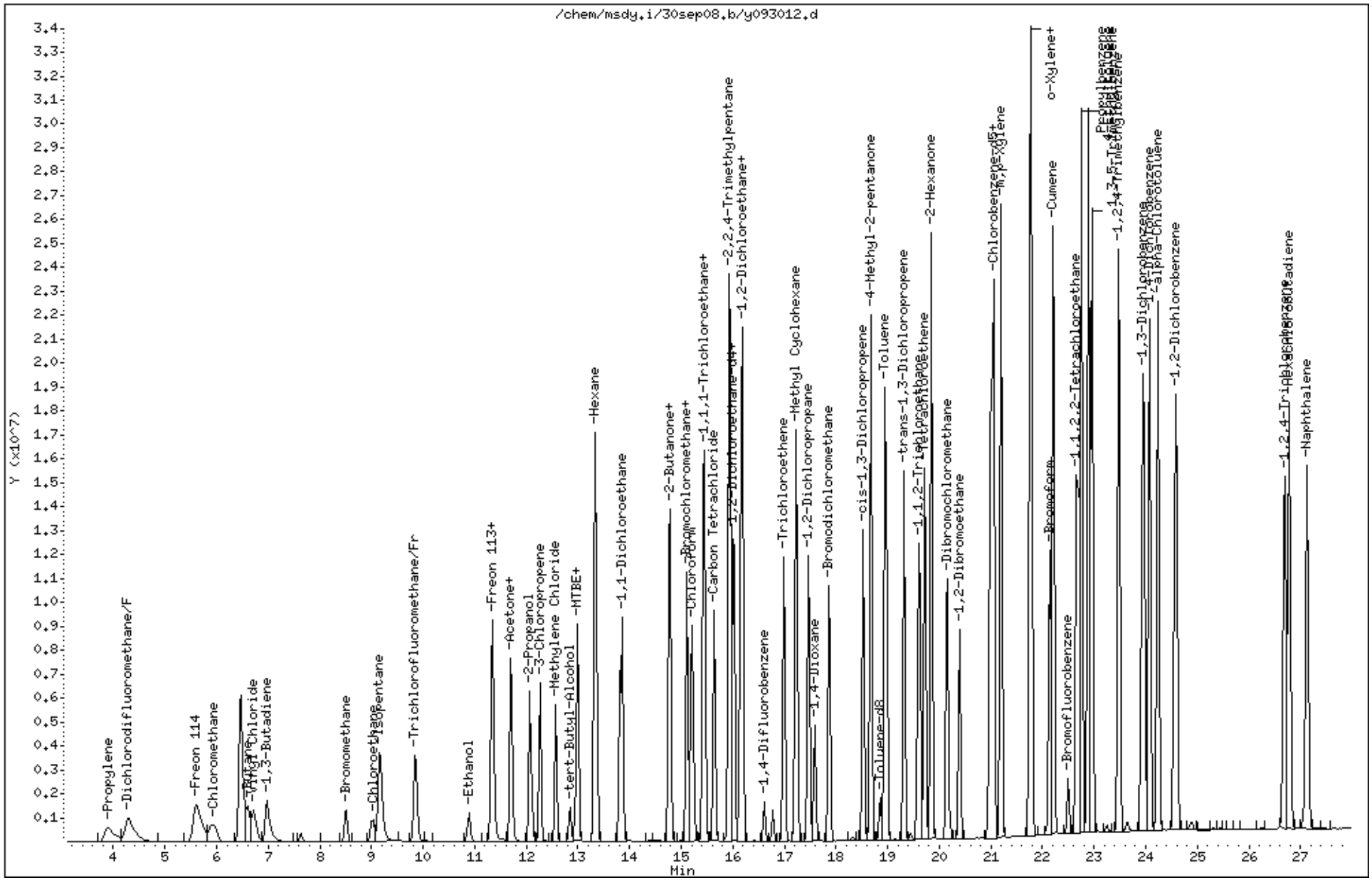
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msdy.i/30sep08.b/y093012.d
Date : 30-SEP-2008 23:37
Client ID: Level 7
Sample Info: 200ml #1612-158

Instrument: msdy.i

Operator: kr
Column diameter: 0.53

Column phase: RTx-624



0207

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0809449-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y100204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/2/08 10:27 PM**	

Compound	%Recovery
Freon 12	99
Freon 114	98
Vinyl Chloride	95
Bromomethane	97
Chloroethane	99
Freon 11	101
1,1-Dichloroethene	97
Freon 113	85
Methylene Chloride	99
1,1-Dichloroethane	112
cis-1,2-Dichloroethene	103
Chloroform	105
1,1,1-Trichloroethane	111
Carbon Tetrachloride	102
Benzene	94
1,2-Dichloroethane	105
Trichloroethene	100
1,2-Dichloropropane	100
cis-1,3-Dichloropropene	104
Toluene	99
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	98
Tetrachloroethene	97
1,2-Dibromoethane (EDB)	97
Chlorobenzene	96
Ethyl Benzene	97
m,p-Xylene	99
o-Xylene	99
Styrene	98
1,1,2,2-Tetrachloroethane	111
1,3,5-Trimethylbenzene	94
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	114
1,2-Dichlorobenzene	105
1,3-Butadiene	87
Hexane	101
Cyclohexane	94

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0809449-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y100204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/2/08 10:27 PM**	

Compound	%Recovery
Heptane	97
Bromodichloromethane	102
Dibromochloromethane	99
Cumene	93
Propylbenzene	106
Chloromethane	96
1,2,4-Trichlorobenzene	109
Hexachlorobutadiene	109
Acetone	96
Carbon Disulfide	102
2-Propanol	91
trans-1,2-Dichloroethene	102
2-Butanone (Methyl Ethyl Ketone)	102
Tetrahydrofuran	103
1,4-Dioxane	100
4-Methyl-2-pentanone	98
2-Hexanone	99
Bromoform	104
4-Ethyltoluene	106
Ethanol	99
Methyl tert-butyl ether	78
3-Chloropropene	108
2,2,4-Trimethylpentane	104
Naphthalene	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdy.i Injection Date: 02-OCT-2008 22:27
Lab File ID: y100204.d Init. Cal. Date(s): 30-SEP-2008 30-SEP-2008
Analysis Type: AIR Init. Cal. Times: 19:11 23:37
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdy.i/02oct08.b/t14q930a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 89 1,2-Dichloroethane-d4	2.15094	2.31008	0.010	-7.39885	30.00000	Averaged	
$ 111 Toluene-d8	1.03510	1.05126	0.010	-1.56052	30.00000	Averaged	
$ 135 Bromofluorobenzene	0.54491	0.54630	0.010	-0.25503	30.00000	Averaged	
5 Propylene	0.95911	0.93517	0.010	2.49562	30.00000	Averaged	
7 Dichlorodifluoromethane/Fr1	2.48313	2.46635	0.010	0.67572	30.00000	Averaged	
11 Freon 114	1.41965	1.39224	0.010	1.93049	30.00000	Averaged	
15 Chloromethane	1.25174	1.20126	0.010	4.03274	30.00000	Averaged	
22 Vinyl Chloride	1.15609	1.10084	0.010	4.77946	30.00000	Averaged	
23 1,3-Butadiene	1.20065	1.04409	0.010	13.03915	30.00000	Averaged	
25 Bromomethane	0.68931	0.67056	0.010	2.72058	30.00000	Averaged	
28 Chloroethane	0.58062	0.57572	0.010	0.84393	30.00000	Averaged	
33 Trichlorofluoromethane/Fr11	2.91341	2.93190	0.010	-0.63468	30.00000	Averaged	
39 Ethanol	0.91664	0.91113	0.010	0.60186	30.00000	Averaged	
44 Freon 113	1.61754	1.37421	0.010	15.04342	30.00000	Averaged	
42 1,1-Dichloroethene	3.48932	3.40069	0.010	2.54010	30.00000	Averaged	
47 Acetone	1.17199	1.12709	0.010	3.83123	30.00000	Averaged	
50 2-Propanol	6.03801	5.51218	0.010	8.70869	30.00000	Averaged	
46 Carbon Disulfide	3.59968	3.66833	0.010	-1.90709	30.00000	Averaged	
53 3-Chloropropene	0.53810	0.58203	0.010	-8.16271	30.00000	Averaged	
56 Methylene Chloride	2.97811	2.95827	0.010	0.66640	30.00000	Averaged	
60 MTBE	0.88476	0.69038	0.010	21.97037	30.00000	Averaged	
61 trans-1,2-Dichloroethene	1.62660	1.65466	0.010	-1.72470	30.00000	Averaged	
65 Hexane	4.60591	4.64161	0.010	-0.77520	30.00000	Averaged	
69 Vinyl Acetate	++++	0.25652	0.010	++++	30.00000	Averaged	<-
67 1,1-Dichloroethane	3.78456	4.23138	0.010	-11.80632	30.00000	Averaged	
75 2-Butanone	0.94587	0.96066	0.010	-1.56455	30.00000	Averaged	
74 cis-1,2-Dichloroethene	3.47205	3.59170	0.010	-3.44599	30.00000	Averaged	
79 Tetrahydrofuran	4.14010	4.27422	0.010	-3.23969	30.00000	Averaged	
82 Chloroform	3.68950	3.89021	0.010	-5.44002	30.00000	Averaged	
84 1,1,1-Trichloroethane	2.85149	3.16133	0.010	-10.86577	30.00000	Averaged	
83 Cyclohexane	2.51479	2.37015	0.010	5.75136	30.00000	Averaged	
85 Carbon Tetrachloride	3.26924	3.32974	0.010	-1.85079	30.00000	Averaged	
88 2,2,4-Trimethylpentane	15.28792	15.83333	0.010	-3.56754	30.00000	Averaged	
90 Benzene	1.24658	1.17738	0.010	5.55141	30.00000	Averaged	
92 1,2-Dichloroethane	0.70922	0.74352	0.010	-4.83629	30.00000	Averaged	

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdy.i Injection Date: 02-OCT-2008 22:27
Lab File ID: y100204.d Init. Cal. Date(s): 30-SEP-2008 30-SEP-2008
Analysis Type: AIR Init. Cal. Times: 19:11 23:37
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdy.i/02oct08.b/t14q930a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Heptane	0.45555	0.44201	0.010	2.97312	30.00000	Averaged
97 Trichloroethene	0.50870	0.51013	0.010	-0.28076	30.00000	Averaged
101 1,2-Dichloropropane	0.57061	0.57280	0.010	-0.38397	30.00000	Averaged
103 1,4-Dioxane	0.30526	0.30558	0.010	-0.10599	30.00000	Averaged
105 Bromodichloromethane	0.84197	0.85842	0.010	-1.95304	30.00000	Averaged
109 cis-1,3-Dichloropropene	0.70488	0.73485	0.010	-4.25206	30.00000	Averaged
110 4-Methyl-2-pentanone	0.63413	0.62064	0.010	2.12717	30.00000	Averaged
112 Toluene	1.44991	1.44082	0.010	0.62709	30.00000	Averaged
113 trans-1,3-Dichloropropene	0.73172	0.78846	0.010	-7.75442	30.00000	Averaged
116 1,1,2-Trichloroethane	0.52598	0.51417	0.010	2.24411	30.00000	Averaged
117 Tetrachloroethene	0.64096	0.61977	0.010	3.30513	30.00000	Averaged
119 2-Hexanone	0.98949	0.98073	0.010	0.88572	30.00000	Averaged
121 Dibromochloromethane	0.80480	0.79434	0.010	1.29948	30.00000	Averaged
122 1,2-Dibromoethane	0.84427	0.81702	0.010	3.22739	30.00000	Averaged
124 Chlorobenzene	1.34772	1.29109	0.010	4.20238	30.00000	Averaged
125 Ethyl Benzene	0.71578	0.69782	0.010	2.50916	30.00000	Averaged
128 m,p-Xylene	0.90438	0.89598	0.010	0.92884	30.00000	Averaged
129 o-Xylene	0.82066	0.81322	0.010	0.90657	30.00000	Averaged
130 Styrene	1.41751	1.39085	0.010	1.88078	30.00000	Averaged
132 Bromoform	0.76062	0.78815	0.010	-3.61946	30.00000	Averaged
133 Cumene	2.63008	2.45522	0.010	6.64860	30.00000	Averaged
136 1,1,2,2-Tetrachloroethane	1.19502	1.32687	0.010	-11.03334	30.00000	Averaged
139 Propylbenzene	3.04615	3.22968	0.010	-6.02520	30.00000	Averaged
142 4-Ethyltoluene	2.61387	2.77591	0.010	-6.19927	30.00000	Averaged
144 1,3,5-Trimethylbenzene	2.83665	2.68200	0.010	5.45189	30.00000	Averaged
149 1,2,4-Trimethylbenzene	2.23830	2.15565	0.010	3.69251	30.00000	Averaged
154 1,3-Dichlorobenzene	1.17012	1.25382	0.010	-7.15373	30.00000	Averaged
156 1,4-Dichlorobenzene	1.17188	1.24967	0.010	-6.63805	30.00000	Averaged
158 alpha-Chlorotoluene	1.75656	2.01232	0.010	-14.56044	30.00000	Averaged
161 1,2-Dichlorobenzene	1.06078	1.11029	0.010	-4.66685	30.00000	Averaged
166 1,2,4-Trichlorobenzene	0.68740	0.74804	0.010	-8.82139	30.00000	Averaged
167 Hexachlorobutadiene	0.55442	0.60460	0.010	-9.05191	30.00000	Averaged
168 Naphthalene	1.56756	1.62055	0.010	-3.38040	30.00000	Averaged
29 Isopentane	2.35624	2.19651	0.010	6.77883	30.00000	Averaged
20 Butane	0.26071	0.24919	0.010	4.41844	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdy.i Injection Date: 02-OCT-2008 22:27
Lab File ID: y100204.d Init. Cal. Date(s): 30-SEP-2008 30-SEP-2008
Analysis Type: AIR Init. Cal. Times: 19:11 23:37
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msdy.i/02oct08.b/t14q930a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
99 Methyl Cyclohexane	3.68496	3.57713	0.010	2.92605	30.00000	Averaged
58 tert-Butyl-Alcohol	1.61646	1.42239	0.010	12.00617	40.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdy.i/02oct08.b/y100204.d
Lab Smp Id: CCV Client Smp ID: CCV-1
Inj Date : 02-OCT-2008 22:27
Operator : kr Inst ID: msdy.i
Smp Info : 50mL #1612-158
Misc Info : 200ppbv-->50ppbv
Comment :
Method : /chem/msdy.i/02oct08.b/t14q930a.m
Meth Date : 06-Oct-2008 13:32 dbailey Quant Type: ISTD
Cal Date : 30-SEP-2008 23:37 Cal File: y093012.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 80 Bromochloromethane					CAS #: 74-97-5			
15.142	15.142 (1.000)	130	345904	25.0000		80.00- 120.00		100.00
15.142	15.142 (1.000)	128	271476			28.48- 128.48		78.48
15.142	15.142 (1.000)	49	1117635			273.11- 373.11		323.11
* 95 1,4-Difluorobenzene					CAS #: 540-36-3			
16.607	16.607 (1.000)	114	1781260	25.0000		80.00- 120.00		100.00
16.607	16.607 (1.000)	88	327470			0.00- 68.38		18.38
* 123 Chlorobenzene-d5					CAS #: 3114-55-4			
20.948	20.948 (1.000)	117	1762193	25.0000		80.00- 120.00		100.00
20.948	20.948 (1.000)	82	1127633			13.32- 113.32		63.99
$ 89 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
16.027	16.027 (1.058)	65	799067	25.0000	26.850	80.00- 120.00		100.00
16.027	16.027 (1.058)	67	360389			0.00- 96.20		45.10
$ 111 Toluene-d8					CAS #: 2037-26-5			
18.875	18.875 (1.137)	98	1872559	25.0000	25.390	80.00- 120.00		100.00
18.847	18.847 (1.135)	70	232218			0.00- 62.19		12.40

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 111 Toluene-d8 (continued)							
18.875	18.875 (1.137)	100	1275064			18.83- 118.83	68.09
$ 135 Bromofluorobenzene					CAS #: 460-00-4		
22.497	22.497 (1.074)	174	962681	25.0000	25.064	80.00- 120.00	100.00
22.497	22.497 (1.074)	95	1599071			116.11- 216.11	166.11
22.497	22.497 (1.074)	176	923563			45.94- 145.94	95.94
5 Propylene					CAS #: 115-07-1		
3.889	3.889 (0.257)	41	646959	50.0000	48.752	80.00- 120.00	100.00
3.889	3.889 (0.257)	42	421216			16.55- 116.55	65.11
3.889	3.889 (0.257)	39	504359			33.88- 133.88	77.96
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.276	4.276 (0.282)	85	1706240	50.0000	49.662	80.00- 120.00	100.00
4.276	4.276 (0.282)	87	549930			0.00- 83.90	32.23
11 Freon 114					CAS #: 76-14-2		
5.603	5.603 (0.370)	135	963162	50.0000	49.035	80.00- 120.00	100.00
5.603	5.603 (0.370)	137	304247			0.00- 81.59	31.59
15 Chloromethane					CAS #: 74-87-3		
5.879	5.879 (0.388)	50	831040	50.0000	47.984	80.00- 120.00	100.00
5.879	5.879 (0.388)	52	251516			0.00- 82.13	30.27
22 Vinyl Chloride					CAS #: 75-01-4		
6.709	6.709 (0.443)	62	761568	50.0000	47.610	80.00- 120.00	100.00
6.709	6.709 (0.443)	64	230557			0.00- 80.05	30.27
23 1,3-Butadiene					CAS #: 106-99-0		
6.958	6.958 (0.460)	54	722312	50.0000	43.480	80.00- 120.00	100.00
6.958	6.958 (0.460)	39	810819			86.43- 186.43	112.25
25 Bromomethane					CAS #: 74-83-9		
8.479	8.479 (0.560)	94	463896	50.0000	48.640	80.00- 120.00	100.00
8.479	8.479 (0.560)	96	434885			43.75- 143.75	93.75
28 Chloroethane					CAS #: 75-00-3		
9.004	9.004 (0.595)	64	398291	50.0000	49.578	80.00- 120.00	100.00
9.004	9.004 (0.595)	49	158424			0.00- 88.71	39.78
9.004	9.004 (0.595)	66	115459			0.00- 87.42	28.99
33 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.833	9.833 (0.649)	101	2028313	50.0000	50.317	80.00- 120.00	100.00
9.833	9.833 (0.649)	103	1306764			14.43- 114.43	64.43

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
10.856	10.856 (0.717)	45	630325	50.0000	49.699	80.00- 120.00	100.00
10.856	10.856 (0.717)	46	252838			0.00- 91.71	40.11
10.856	10.856 (0.717)	43	127198			0.00- 70.36	20.18
44 Freon 113					CAS #: 76-13-1		
11.354	11.354 (0.750)	151	950688	50.0000	42.478	80.00- 120.00	100.00
11.354	11.354 (0.750)	153	591368			12.20- 112.20	62.20
11.326	11.326 (0.748)	101	1274919			84.10- 184.10	134.10
42 1,1-Dichloroethene					CAS #: 75-35-4		
11.326	11.326 (0.748)	61	2352622	50.0000	48.730	80.00- 120.00	100.00
11.326	11.326 (0.748)	96	884552			0.00- 87.60	37.60
11.326	11.326 (0.748)	98	568109			0.00- 74.15	24.15
47 Acetone					CAS #: 67-64-1		
11.686	11.686 (0.772)	58	779730	50.0000	48.084	80.00- 120.00	100.00
11.686	11.686 (0.772)	43	3092775			344.44- 444.44	396.65
50 2-Propanol					CAS #: 67-63-0		
12.073	12.073 (0.797)	45	3813369	50.0000	45.646	80.00- 120.00	100.00
12.073	12.073 (0.797)	43	689307			0.00- 68.05	18.08
12.073	12.073 (0.797)	59	124796			0.00- 53.27	3.27
46 Carbon Disulfide					CAS #: 75-15-0		
11.686	11.686 (0.772)	76	2537780	50.0000	50.954	80.00- 120.00	100.00
53 3-Chloropropene					CAS #: 107-05-1		
12.266	12.266 (0.810)	76	402652	50.0000	54.081	80.00- 120.00	100.00
12.239	12.239 (0.808)	41	2147185			483.20- 583.20	533.26
56 Methylene Chloride					CAS #: 75-09-2		
12.571	12.571 (0.830)	49	2046552	50.0000	49.667	80.00- 120.00	100.00
12.571	12.571 (0.830)	84	786244			0.00- 88.42	38.42
12.571	12.571 (0.830)	51	610898			0.00- 80.60	29.85
60 MTBE					CAS #: 1634-04-4		
12.958	12.958 (0.856)	73	477609	50.0000	39.015	80.00- 120.00	100.00
12.958	12.958 (0.856)	57	171353			0.00- 85.88	35.88
12.930	12.930 (0.854)	41	169616			0.00- 86.90	35.51
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
12.985	12.985 (0.858)	96	1144705	50.0000	50.862	80.00- 120.00	100.00
12.985	12.985 (0.858)	61	2534243			171.39- 271.39	221.39
12.985	12.985 (0.858)	98	725452			15.63- 115.63	63.37

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
13.345	13.345 (0.881)	57	3211105	50.0000	50.388	80.00- 120.00	100.00
13.345	13.345 (0.881)	43	2348687			23.48- 123.48	73.14
13.345	13.345 (0.881)	86	351019			0.00- 61.00	10.93
69 Vinyl Acetate					CAS #: 108-05-4		
13.870	13.870 (0.916)	86	177464	50.0000		80.00- 120.00	100.00(a)
13.870	13.870 (0.916)	43	3225077			1925.49-2025.49	1817.31
67 1,1-Dichloroethane					CAS #: 75-34-3		
13.815	13.815 (0.912)	63	2927302	50.0000	55.903	80.00- 120.00	100.00
13.815	13.815 (0.912)	65	847221			0.00- 78.94	28.94
75 2-Butanone					CAS #: 78-93-3		
14.783	14.783 (0.976)	72	664595	50.0000	50.782	80.00- 120.00	100.00
14.783	14.783 (0.976)	43	5004955			703.08- 803.08	753.08
14.783	14.783 (0.976)	57	338694			4.23- 104.23	50.96
74 cis-1,2-Dichloroethene					CAS #: 156-59-2		
14.755	14.755 (0.974)	61	2484765	50.0000	51.723	80.00- 120.00	100.00
14.755	14.755 (0.974)	96	1246181			0.15- 100.15	50.15
14.755	14.755 (0.974)	98	783610			0.00- 81.54	31.54
79 Tetrahydrofuran					CAS #: 109-99-9		
15.114	15.114 (0.998)	42	2956941	50.0000	51.620	80.00- 120.00	100.00
15.114	15.114 (0.998)	71	614004			0.00- 70.76	20.76
15.114	15.114 (0.998)	72	672970			0.00- 72.55	22.76
82 Chloroform					CAS #: 67-66-3		
15.225	15.225 (1.005)	83	2691276	50.0000	52.720	80.00- 120.00	100.00
15.225	15.225 (1.005)	85	1712624			13.64- 113.64	63.64
84 1,1,1-Trichloroethane					CAS #: 71-55-6		
15.446	15.446 (1.020)	97	2187034	50.0000	55.433	80.00- 120.00	100.00
15.446	15.446 (1.020)	99	1403024			14.15- 114.15	64.15
83 Cyclohexane					CAS #: 110-82-7		
15.419	15.419 (1.018)	84	1639692	50.0000	47.124	80.00- 120.00	100.00
15.419	15.419 (1.018)	56	3175700			143.68- 243.68	193.68
15.419	15.419 (1.018)	41	1913490			66.70- 166.70	116.70
85 Carbon Tetrachloride					CAS #: 56-23-5		
15.640	15.640 (1.033)	119	2303544	50.0000	50.925	80.00- 120.00	100.00
15.640	15.640 (1.033)	117	2410304			54.63- 154.63	104.63
88 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.916	15.916 (1.051)	57	10953622	50.0000	51.784	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
88 2,2,4-Trimethylpentane (continued)							
15.916	15.916 (1.051)	56	3532654			0.00- 82.06	32.25
15.916	15.916 (1.051)	41	3099061			0.00- 79.19	28.29
90 Benzene					CAS #: 71-43-2		
15.999	15.999 (0.963)	78	4194438	50.0000	47.224	80.00- 120.00	100.00
15.999	15.999 (0.963)	77	971356			0.00- 73.30	23.16
92 1,2-Dichloroethane					CAS #: 107-06-2		
16.137	16.137 (0.972)	62	2648814	50.0000	52.418	80.00- 120.00	100.00
16.137	16.137 (0.972)	64	817526			0.00- 82.17	30.86
94 Heptane					CAS #: 142-82-5		
16.193	16.193 (0.975)	71	1574671	50.0000	48.513	80.00- 120.00	100.00
16.193	16.193 (0.975)	43	4963474			254.97- 354.97	315.21
16.193	16.193 (0.975)	57	2272501			87.76- 187.76	144.32
97 Trichloroethene					CAS #: 79-01-6		
16.995	16.995 (1.023)	95	1817333	50.0000	50.140	80.00- 120.00	100.00
16.995	16.995 (1.023)	130	1648410			40.70- 140.70	90.70
16.995	16.995 (1.023)	97	1169258			14.34- 114.34	64.34
101 1,2-Dichloropropane					CAS #: 78-87-5		
17.465	17.465 (1.052)	63	2040609	50.0000	50.192	80.00- 120.00	100.00
17.465	17.465 (1.052)	62	1471672			22.12- 122.12	72.12
17.465	17.465 (1.052)	41	1595822			28.20- 128.20	78.20
103 1,4-Dioxane					CAS #: 123-91-1		
17.603	17.603 (1.060)	88	1088645	50.0000	50.053	80.00- 120.00	100.00
17.603	17.603 (1.060)	58	1187175			59.05- 159.05	109.05
17.603	17.603 (1.060)	57	384150			0.00- 85.51	35.29
105 Bromodichloromethane					CAS #: 75-27-4		
17.852	17.852 (1.075)	83	3058127	50.0000	50.976	80.00- 120.00	100.00
17.852	17.852 (1.075)	85	1949069			13.73- 113.73	63.73
109 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.515	18.515 (1.115)	75	2617907	50.0000	52.126	80.00- 120.00	100.00
18.515	18.515 (1.115)	77	821820			0.00- 81.39	31.39
18.515	18.515 (1.115)	39	2207990			34.34- 134.34	84.34
110 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.681	18.681 (1.125)	58	2211032	50.0000	48.936	80.00- 120.00	100.00
18.681	18.681 (1.125)	43	6663812			246.81- 346.81	301.39
18.681	18.681 (1.125)	85	649387			0.00- 80.93	29.37

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
112 Toluene					CAS #: 108-88-3		
18.958	18.958 (1.141)	91	5132938	50.0000	49.686	80.00- 120.00	100.00
18.958	18.958 (1.141)	92	3085511			10.11- 110.11	60.11
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.317	19.317 (0.922)	75	2778831	50.0000	53.877	80.00- 120.00	100.00
19.317	19.317 (0.922)	77	887720			0.00- 81.95	31.95
19.317	19.317 (0.922)	39	2192119			28.89- 128.89	78.89
116 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.594	19.594 (0.935)	97	1812148	50.0000	48.878	80.00- 120.00	100.00
19.594	19.594 (0.935)	99	1121852			11.91- 111.91	61.91
19.594	19.594 (0.935)	83	1582617			37.33- 137.33	87.33
117 Tetrachloroethene					CAS #: 127-18-4		
19.704	19.704 (0.941)	166	2184317	50.0000	48.347	80.00- 120.00	100.00
19.704	19.704 (0.941)	129	1625506			24.42- 124.42	74.42
19.704	19.704 (0.941)	131	1607368			23.59- 123.59	73.59
119 2-Hexanone					CAS #: 591-78-6		
19.842	19.842 (0.947)	58	3456468	50.0000	49.557	80.00- 120.00	100.00
19.842	19.842 (0.947)	43	7465926			166.00- 266.00	216.00
19.842	19.842 (0.947)	100	485841			0.00- 64.00	14.06
121 Dibromochloromethane					CAS #: 124-48-1		
20.147	20.147 (0.962)	129	2799558	50.0000	49.350	80.00- 120.00	100.00
20.147	20.147 (0.962)	127	2192240			28.55- 128.55	78.31
122 1,2-Dibromoethane					CAS #: 106-93-4		
20.395	20.395 (0.974)	107	2879488	50.0000	48.386	80.00- 120.00	100.00
20.395	20.395 (0.974)	109	2730008			44.81- 144.81	94.81
124 Chlorobenzene					CAS #: 108-90-7		
21.004	21.004 (1.003)	112	4550289	50.0000	47.899	80.00- 120.00	100.00
21.004	21.004 (1.003)	114	1419047			0.00- 81.19	31.19
20.976	20.976 (1.001)	77	3705414			31.43- 131.43	81.43
125 Ethyl Benzene					CAS #: 100-41-4		
21.059	21.059 (1.005)	106	2459382	50.0000	48.745	80.00- 120.00	100.00
21.059	21.059 (1.005)	91	8160946			278.40- 378.40	331.83
128 m,p-Xylene					CAS #: 108-38-3		
21.197	21.197 (1.012)	106	3157767	50.0000	49.536	80.00- 120.00	100.00
21.197	21.197 (1.012)	91	6659795			159.22- 259.22	210.90
129 o-Xylene					CAS #: 95-47-6		
21.750	21.750 (1.038)	106	2866114	50.0000	49.547	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
129 o-Xylene (continued)							
21.750	21.750 (1.038)	91	6430503			174.36- 274.36	224.36
130 Styrene					CAS #: 100-42-5		
21.778	21.778 (1.040)	104	4901893	50.0000	49.060	80.00- 120.00	100.00
21.778	21.778 (1.040)	78	2657407			4.21- 104.21	54.21
132 Bromoform					CAS #: 75-25-2		
22.137	22.137 (1.057)	173	2777760	50.0000	51.810	80.00- 120.00	100.00
22.137	22.137 (1.057)	171	1442707			1.94- 101.94	51.94
133 Cumene					CAS #: 98-82-8		
22.193	22.193 (1.059)	105	8653143	50.0000	46.676	80.00- 120.00	100.00
22.193	22.193 (1.059)	120	2132543			0.00- 75.11	24.64
22.193	22.193 (1.059)	51	1483192			0.00- 67.68	17.14
136 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
22.663	22.663 (1.082)	83	4676400	50.0000	55.517	80.00- 120.00	100.00
22.663	22.663 (1.082)	85	2944847			12.97- 112.97	62.97
139 Propylbenzene					CAS #: 103-65-1		
22.746	22.746 (1.086)	91	11382646	50.0000	53.013	80.00- 120.00	100.00
22.746	22.746 (1.086)	120	2347481			0.00- 71.22	20.62
22.746	22.746 (1.086)	105	408299			0.00- 54.12	3.59
142 4-Ethyltoluene					CAS #: 622-96-8		
22.884	22.884 (1.092)	105	9783385	50.0000	53.100	80.00- 120.00	100.00
22.884	22.884 (1.092)	120	2702453			0.00- 77.62	27.62
144 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
22.967	22.967 (1.096)	105	9452411	50.0000	47.274	80.00- 120.00	100.00
22.967	22.967 (1.096)	120	4055452			0.00- 93.95	42.90
149 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
23.465	23.465 (1.120)	105	7597333	50.0000	48.154	80.00- 120.00	100.00
23.465	23.465 (1.120)	120	3241547			0.00- 93.08	42.67
154 1,3-Dichlorobenzene					CAS #: 541-73-1		
23.935	23.935 (1.143)	146	4418962	50.0000	53.577	80.00- 120.00	100.00
23.935	23.935 (1.143)	148	2768738			12.34- 112.34	62.66
23.935	23.935 (1.143)	111	2038710			0.00- 95.73	46.14
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.073	24.073 (1.149)	146	4404334	50.0000	53.319	80.00- 120.00	100.00
24.073	24.073 (1.149)	148	2759980			11.83- 111.83	62.67
24.073	24.073 (1.149)	111	1935598			0.00- 94.91	43.95

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
158 alpha-Chlorotoluene					CAS #: 100-44-7		
24.239	24.239 (1.157)	91	7092190	50.0000	57.280	80.00- 120.00	100.00
24.239	24.239 (1.157)	126	1333144			0.00- 71.00	18.80
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
24.570	24.570 (1.173)	146	3913083	50.0000	52.333	80.00- 120.00	100.00
24.570	24.570 (1.173)	148	2466018			13.02- 113.02	63.02
24.570	24.570 (1.173)	111	1848817			0.00- 97.25	47.25
166 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
26.700	26.700 (1.275)	180	2636390	50.0000	54.411	80.00- 120.00	100.00
26.700	26.700 (1.275)	182	2496231			44.68- 144.68	94.68
167 Hexachlorobutadiene					CAS #: 87-68-3		
26.782	26.782 (1.278)	225	2130858	50.0000	54.526	80.00- 120.00	100.00
26.782	26.782 (1.278)	223	1340446			14.15- 114.15	62.91
168 Naphthalene					CAS #: 91-20-3		
27.114	27.114 (1.294)	128	5711440	50.0000	51.690	80.00- 120.00	100.00
27.114	27.114 (1.294)	127	739704			0.00- 65.25	12.95
29 Isopentane					CAS #: 78-78-4		
9.142	9.142 (0.604)	43	1519564	50.0000	46.610	80.00- 120.00	100.00
9.142	9.142 (0.604)	57	936565			9.74- 109.74	61.63
20 Butane					CAS #: 106-97-8		
6.571	6.571 (0.434)	58	172391	50.0000	47.791	80.00- 120.00	100.00
6.598	6.598 (0.436)	43	1450127			830.20- 930.20	841.18
99 Methyl Cyclohexane					CAS #: 108-87-2		
17.216	17.216 (1.137)	83	2474690	50.0000	48.537	80.00- 120.00	100.00
17.216	17.216 (1.137)	98	1167853			0.00- 99.54	47.19
17.216	17.216 (1.137)	55	3345972			81.83- 181.83	135.21
58 tert-Butyl-Alcohol					CAS #: 75-65-0		
12.819	12.819 (0.847)	59	984020	50.0000	43.997	80.00- 120.00	100.00
12.819	12.819 (0.847)	41	241867			0.00- 75.27	24.58
12.819	12.819 (0.847)	57	110378			0.00- 64.67	11.22

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y100204.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msdy.i/02oct08.b/t14q930a.m
Misc Info: 200ppbv-->50ppbv

Calibration Date: 02-OCT-2008
Calibration Time: 22:27
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	345904	207542	484266	345904	0.00
95 1,4-Difluorobenze	1781260	1068756	2493764	1781260	0.00
123 Chlorobenzene-d5	1762193	1057316	2467070	1762193	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	15.14	14.81	15.47	15.14	0.00
95 1,4-Difluorobenze	16.61	16.28	16.94	16.61	0.00
123 Chlorobenzene-d5	20.95	20.62	21.28	20.95	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.

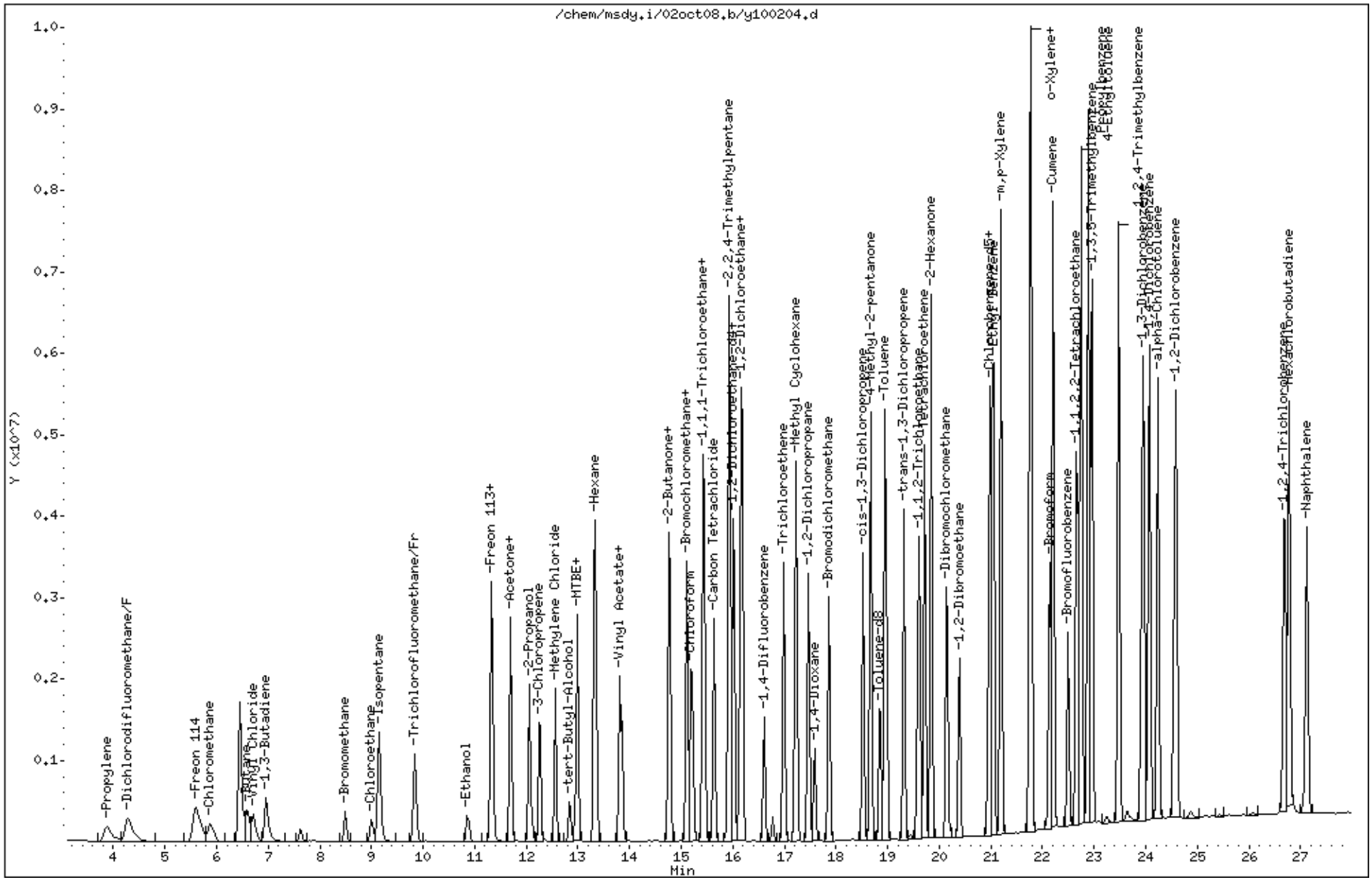
0222

Data File: /chem/msdy.i/02oct08.b/y100204.d
Date : 02-OCT-2008 22:27
Client ID: CCV-1
Sample Info: 50mL #1612-158

Instrument: msdy.i

Operator: kr
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0809449-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y100205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/2/08 11:07 PM**	

Compound	%Recovery
Freon 12	101
Freon 114	102
Vinyl Chloride	96
Bromomethane	95
Chloroethane	102
Freon 11	108
1,1-Dichloroethene	110
Freon 113	103
Methylene Chloride	114
1,1-Dichloroethane	122
cis-1,2-Dichloroethene	109
Chloroform	112
1,1,1-Trichloroethane	126
Carbon Tetrachloride	109
Benzene	97
1,2-Dichloroethane	110
Trichloroethene	104
1,2-Dichloropropane	103
cis-1,3-Dichloropropene	104
Toluene	107
trans-1,3-Dichloropropene	110
1,1,2-Trichloroethane	102
Tetrachloroethene	102
1,2-Dibromoethane (EDB)	97
Chlorobenzene	98
Ethyl Benzene	99
m,p-Xylene	100
o-Xylene	102
Styrene	100
1,1,2,2-Tetrachloroethane	114
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	114
1,2-Dichlorobenzene	106
1,3-Butadiene	86
Hexane	104
Cyclohexane	100

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0809449-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**y100205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/2/08 11:07 PM**	

Compound	%Recovery
Heptane	100
Bromodichloromethane	106
Dibromochloromethane	102
Cumene	99
Propylbenzene	112
Chloromethane	97
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	106
Acetone	97
Carbon Disulfide	107
2-Propanol	90
trans-1,2-Dichloroethene	105
2-Butanone (Methyl Ethyl Ketone)	104
Tetrahydrofuran	104
1,4-Dioxane	96
4-Methyl-2-pentanone	101
2-Hexanone	97
Bromoform	108
4-Ethyltoluene	110
Ethanol	112
Methyl tert-butyl ether	119
3-Chloropropene	119
2,2,4-Trimethylpentane	106
Naphthalene	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 02oct08
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS-1
Level: LOW Operator: kr
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msdy.i/02oct08.b/t14q930a.m
Misc Info: 200ppbv-->50ppbv

SPIKE	COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
5	Propylene	50.000	51.282	102.56	60-140
7	Dichlorodifluorome	50.000	50.700	101.40	70-130
11	Freon 114	50.000	50.886	101.77	70-130
15	Chloromethane	50.000	48.382	96.76	70-130
22	Vinyl Chloride	50.000	48.038	96.08	70-130
23	1,3-Butadiene	50.000	43.230	86.46	60-140
25	Bromomethane	50.000	47.596	95.19	70-130
28	Chloroethane	50.000	51.199	102.40	70-130
33	Trichlorofluoromet	50.000	53.923	107.85	70-130
39	Ethanol	50.000	55.893	111.79	60-140
44	Freon 113	50.000	51.739	103.48	70-130
42	1,1-Dichloroethene	50.000	55.138	110.28	70-130
47	Acetone	50.000	48.556	97.11	60-140
46	Carbon Disulfide	50.000	53.608	107.22	60-140
50	2-Propanol	50.000	45.273	90.55	60-140
56	Methylene Chloride	50.000	56.936	113.87	70-130
60	MTBE	50.000	59.517	119.03	60-140
61	trans-1,2-Dichloro	50.000	52.306	104.61	60-140
65	Hexane	50.000	52.112	104.22	60-140
69	Vinyl Acetate	50.000	0.000	0.00*	60-140
67	1,1-Dichloroethane	50.000	60.797	121.59	70-130
74	cis-1,2-Dichloroet	50.000	54.359	108.72	70-130
75	2-Butanone	50.000	52.022	104.04	60-140
79	Tetrahydrofuran	50.000	52.182	104.36	60-140
82	Chloroform	50.000	55.926	111.85	70-130
83	Cyclohexane	50.000	49.986	99.97	60-140
84	1,1,1-Trichloroeth	50.000	63.204	126.41	70-130
85	Carbon Tetrachlori	50.000	54.342	108.68	70-130
90	Benzene	50.000	48.559	97.12	70-130
92	1,2-Dichloroethane	50.000	54.814	109.63	70-130
94	Heptane	50.000	50.063	100.13	60-140
97	Trichloroethene	50.000	51.906	103.81	70-130
101	1,2-Dichloropropan	50.000	51.615	103.23	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
103 1,4-Dioxane	50.000	48.161	96.32	60-140
105 Bromodichlorometha	50.000	53.029	106.06	60-140
109 cis-1,3-Dichloropr	50.000	52.203	104.41	70-130
110 4-Methyl-2-pentano	50.000	50.347	100.69	60-140
112 Toluene	50.000	53.620	107.24	70-130
113 trans-1,3-Dichloro	50.000	54.750	109.50	70-130
116 1,1,2-Trichloroeth	50.000	50.961	101.92	70-130
117 Tetrachloroethene	50.000	51.186	102.37	70-130
119 2-Hexanone	50.000	48.391	96.78	60-140
121 Dibromochlorometha	50.000	50.873	101.75	60-140
122 1,2-Dibromoethane	50.000	48.592	97.18	70-130
124 Chlorobenzene	50.000	48.963	97.93	70-130
125 Ethyl Benzene	50.000	49.396	98.79	70-130
128 m,p-Xylene	50.000	50.270	100.54	70-130
129 o-Xylene	50.000	51.170	102.34	70-130
130 Styrene	50.000	49.937	99.87	70-130
132 Bromoform	50.000	53.874	107.75	60-140
136 1,1,2,2-Tetrachlor	50.000	56.973	113.95	70-130
142 4-Ethyltoluene	50.000	55.020	110.04	60-140
144 1,3,5-Trimethylben	50.000	49.141	98.28	70-130
149 1,2,4-Trimethylben	50.000	49.430	98.86	70-130
154 1,3-Dichlorobenzen	50.000	54.466	108.93	70-130
156 1,4-Dichlorobenzen	50.000	53.408	106.82	70-130
158 alpha-Chlorotoluen	50.000	56.940	113.88	70-130
161 1,2-Dichlorobenzen	50.000	52.914	105.83	70-130
166 1,2,4-Trichloroben	50.000	50.858	101.72	70-130
167 Hexachlorobutadien	50.000	52.987	105.97	70-130
139 Propylbenzene	50.000	55.784	111.57	60-140
133 Cumene	50.000	49.744	99.49	60-140
53 3-Chloropropene	50.000	59.485	118.97	60-140
88 2,2,4-Trimethylpen	50.000	53.285	106.57	60-140
29 Isopentane	50.000	49.968	99.94	70-130
20 Butane	50.000	48.873	97.75	70-130
99 Methyl Cyclohexane	50.000	51.182	102.37	70-130
58 tert-Butyl-Alcohol	50.000	57.038	114.08	60-140
168 Naphthalene	50.000	49.105	98.21	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 89 1,2-Dichloroethane	25.000	26.652	106.61	70-130
$ 111 Toluene-d8	25.000	24.744	98.98	70-130
$ 135 Bromofluorobenzene	25.000	25.276	101.10	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdy.i/02oct08.b/y100205.d
Lab Smp Id: LCS Client Smp ID: LCS-1
Inj Date : 02-OCT-2008 23:07
Operator : kr Inst ID: msdy.i
Smp Info : 50mL #1612-164
Misc Info : 200ppbv-->50ppbv
Comment :
Method : /chem/msdy.i/02oct08.b/t14q930a.m
Meth Date : 06-Oct-2008 13:32 dbailey Quant Type: ISTD
Cal Date : 30-SEP-2008 23:37 Cal File: y093012.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 80 Bromochloromethane					CAS #: 74-97-5		
15.142	15.142 (1.000)	130	326683	25.0000		80.00- 120.00	100.00
15.142	15.142 (1.000)	128	254550			28.48- 128.48	77.92
15.142	15.142 (1.000)	49	1041739			273.11- 373.11	318.88
* 95 1,4-Difluorobenzene					CAS #: 540-36-3		
16.607	16.607 (1.000)	114	1687430	25.0000		80.00- 120.00	100.00
16.607	16.607 (1.000)	88	308909			0.00- 68.38	18.31
* 123 Chlorobenzene-d5					CAS #: 3114-55-4		
20.948	20.948 (1.000)	117	1649621	25.0000		80.00- 120.00	100.00
20.948	20.948 (1.000)	82	1056336			13.32- 113.32	64.04
$ 89 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
16.027	16.027 (1.058)	65	749116	26.6523	26.652	80.00- 120.00	100.00
16.027	16.027 (1.058)	67	342117			0.00- 96.20	45.67
$ 111 Toluene-d8					CAS #: 2037-26-5		
18.875	18.875 (1.137)	98	1728780	24.7440	24.744	80.00- 120.00	100.00
18.847	18.847 (1.135)	70	216857			0.00- 62.19	12.54

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 111 Toluene-d8 (continued)							
18.875	18.875 (1.137)	100	1189688			18.83- 118.83	68.82
$ 135 Bromofluorobenzene					CAS #: 460-00-4		
22.497	22.497 (1.074)	174	908818	25.2761	25.276	80.00- 120.00	100.00
22.497	22.497 (1.074)	95	1490325			116.11- 216.11	163.98
22.497	22.497 (1.074)	176	885336			45.94- 145.94	97.42
5 Propylene					CAS #: 115-07-1		
3.889	3.889 (0.257)	41	642709	51.2815	51.282	80.00- 120.00	100.00
3.889	3.889 (0.257)	42	425770			16.55- 116.55	66.25
3.889	3.889 (0.257)	39	504713			33.88- 133.88	78.53
7 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
4.276	4.276 (0.282)	85	1645107	50.7001	50.700	80.00- 120.00	100.00
4.276	4.276 (0.282)	87	529778			0.00- 83.90	32.20
11 Freon 114					CAS #: 76-14-2		
5.603	5.603 (0.370)	135	943985	50.8861	50.886	80.00- 120.00	100.00
5.603	5.603 (0.370)	137	293651			0.00- 81.59	31.11
15 Chloromethane					CAS #: 74-87-3		
5.879	5.879 (0.388)	50	791375	48.3819	48.382	80.00- 120.00	100.00
5.907	5.879 (0.390)	52	245171			0.00- 82.13	30.98
22 Vinyl Chloride					CAS #: 75-01-4		
6.709	6.709 (0.443)	62	725706	48.0376	48.038	80.00- 120.00	100.00
6.709	6.709 (0.443)	64	211130			0.00- 80.05	29.09
23 1,3-Butadiene					CAS #: 106-99-0		
6.958	6.958 (0.459)	54	678246	43.2300	43.230	80.00- 120.00	100.00
6.958	6.958 (0.459)	39	741782			86.43- 186.43	109.37
25 Bromomethane					CAS #: 74-83-9		
8.478	8.479 (0.560)	94	428718	47.5961	47.596	80.00- 120.00	100.00
8.478	8.479 (0.560)	96	403785			43.75- 143.75	94.18
28 Chloroethane					CAS #: 75-00-3		
9.004	9.004 (0.595)	64	388459	51.1992	51.199	80.00- 120.00	100.00
9.004	9.004 (0.595)	49	154934			0.00- 88.71	39.88
9.004	9.004 (0.595)	66	112105			0.00- 87.42	28.86
33 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
9.833	9.833 (0.649)	101	2052891	53.9234	53.923	80.00- 120.00	100.00
9.833	9.833 (0.649)	103	1318934			14.43- 114.43	64.25

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
39 Ethanol					CAS #: 64-17-5		
10.884	10.856 (0.719)	45	669487	55.8927	55.893	80.00- 120.00	100.00
10.856	10.856 (0.717)	46	268678			0.00- 91.71	40.13
10.884	10.856 (0.719)	43	144669			0.00- 70.36	21.61
44 Freon 113					CAS #: 76-13-1		
11.354	11.354 (0.750)	151	1093608	51.7392	51.739	80.00- 120.00	100.00
11.354	11.354 (0.750)	153	683519			12.20- 112.20	62.50
11.354	11.326 (0.750)	101	1455310			84.10- 184.10	133.07
42 1,1-Dichloroethene					CAS #: 75-35-4		
11.326	11.326 (0.748)	61	2514078	55.1381	55.138	80.00- 120.00	100.00
11.326	11.326 (0.748)	96	940385			0.00- 87.60	37.40
11.326	11.326 (0.748)	98	598782			0.00- 74.15	23.82
47 Acetone					CAS #: 67-64-1		
11.686	11.686 (0.772)	58	743631	48.5564	48.556	80.00- 120.00	100.00
11.686	11.686 (0.772)	43	2947029			344.44- 444.44	396.30
50 2-Propanol					CAS #: 67-63-0		
12.073	12.073 (0.797)	45	3572048	45.2728	45.273	80.00- 120.00	100.00
12.073	12.073 (0.797)	43	643054			0.00- 68.05	18.00
12.073	12.073 (0.797)	59	112143			0.00- 53.27	3.14
46 Carbon Disulfide					CAS #: 75-15-0		
11.686	11.686 (0.772)	76	2521605	53.6076	53.608	80.00- 120.00	100.00
53 3-Chloropropene					CAS #: 107-05-1		
12.266	12.266 (0.810)	76	418272	59.4847	59.485	80.00- 120.00	100.00
12.266	12.239 (0.810)	41	2227489			483.20- 583.20	532.55
56 Methylene Chloride					CAS #: 75-09-2		
12.571	12.571 (0.830)	49	2215737	56.9365	56.936	80.00- 120.00	100.00
12.571	12.571 (0.830)	84	857434			0.00- 88.42	38.70
12.571	12.571 (0.830)	51	660024			0.00- 80.60	29.79
60 MTBE					CAS #: 1634-04-4		
12.958	12.958 (0.856)	73	688105	59.5170	59.517	80.00- 120.00	100.00
12.958	12.958 (0.856)	57	237291			0.00- 85.88	34.48
12.958	12.930 (0.856)	41	239384			0.00- 86.90	34.79
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
12.985	12.985 (0.858)	96	1111774	52.3056	52.306	80.00- 120.00	100.00
12.985	12.985 (0.858)	61	2458923			171.39- 271.39	221.17
12.985	12.985 (0.858)	98	706627			15.63- 115.63	63.56

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
13.345	13.345 (0.881)	57	3136450	52.1119	52.112	80.00- 120.00	100.00
13.345	13.345 (0.881)	43	2302851			23.48- 123.48	73.42
13.345	13.345 (0.881)	86	350462			0.00- 61.00	11.17
69 Vinyl Acetate					CAS #: 108-05-4		
13.870	13.870 (0.916)	86	164819			80.00- 120.00	100.00(aR)
13.870	13.870 (0.916)	43	2978601			1925.49-2025.49	1807.20
67 1,1-Dichloroethane					CAS #: 75-34-3		
13.815	13.815 (0.912)	63	3006660	60.7970	60.797	80.00- 120.00	100.00
13.815	13.815 (0.912)	65	873355			0.00- 78.94	29.05
75 2-Butanone					CAS #: 78-93-3		
14.782	14.783 (0.976)	72	642988	52.0220	52.022	80.00- 120.00	100.00
14.782	14.783 (0.976)	43	4784916			703.08- 803.08	744.17
14.782	14.783 (0.976)	57	333183			4.23- 104.23	51.82
74 cis-1,2-Dichloroethene					CAS #: 156-59-2		
14.755	14.755 (0.974)	61	2466287	54.3589	54.359	80.00- 120.00	100.00
14.755	14.755 (0.974)	96	1239564			0.15- 100.15	50.26
14.755	14.755 (0.974)	98	777100			0.00- 81.54	31.51
79 Tetrahydrofuran					CAS #: 109-99-9		
15.114	15.114 (0.998)	42	2823021	52.1816	52.182	80.00- 120.00	100.00
15.114	15.114 (0.998)	71	590944			0.00- 70.76	20.93
15.114	15.114 (0.998)	72	636404			0.00- 72.55	22.54
82 Chloroform					CAS #: 67-66-3		
15.225	15.225 (1.005)	83	2696311	55.9263	55.926	80.00- 120.00	100.00
15.225	15.225 (1.005)	85	1727272			13.64- 113.64	64.06
84 1,1,1-Trichloroethane					CAS #: 71-55-6		
15.446	15.446 (1.020)	97	2355052	63.2036	63.204	80.00- 120.00	100.00
15.446	15.446 (1.020)	99	1491855			14.15- 114.15	63.35
83 Cyclohexane					CAS #: 110-82-7		
15.418	15.419 (1.018)	84	1642618	49.9860	49.986	80.00- 120.00	100.00
15.418	15.419 (1.018)	56	3180481			143.68- 243.68	193.62
15.418	15.419 (1.018)	41	1916589			66.70- 166.70	116.68
85 Carbon Tetrachloride					CAS #: 56-23-5		
15.640	15.640 (1.033)	119	2321498	54.3420	54.342	80.00- 120.00	100.00
15.640	15.640 (1.033)	117	2454770			54.63- 154.63	105.74
88 2,2,4-Trimethylpentane					CAS #: 540-84-1		
15.916	15.916 (1.051)	57	10644795	53.2847	53.285	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
88 2,2,4-Trimethylpentane (continued)							
15.916	15.916 (1.051)	56	3443226			0.00- 82.06	32.35
15.916	15.916 (1.051)	41	3017676			0.00- 79.19	28.35
90 Benzene					CAS #: 71-43-2		
15.999	15.999 (0.963)	78	4085820	48.5593	48.559	80.00- 120.00	100.00
15.999	15.999 (0.963)	77	933804			0.00- 73.30	22.85
92 1,2-Dichloroethane					CAS #: 107-06-2		
16.137	16.137 (0.972)	62	2623993	54.8144	54.814	80.00- 120.00	100.00
16.137	16.137 (0.972)	64	815058			0.00- 82.17	31.06
94 Heptane					CAS #: 142-82-5		
16.193	16.193 (0.975)	71	1539367	50.0629	50.063	80.00- 120.00	100.00
16.193	16.193 (0.975)	43	4831464			254.97- 354.97	313.86
16.193	16.193 (0.975)	57	2211042			87.76- 187.76	143.63
97 Trichloroethene					CAS #: 79-01-6		
16.994	16.995 (1.023)	95	1782219	51.9058	51.906	80.00- 120.00	100.00
16.994	16.995 (1.023)	130	1597436			40.70- 140.70	89.63
16.994	16.995 (1.023)	97	1150654			14.34- 114.34	64.56
101 1,2-Dichloropropane					CAS #: 78-87-5		
17.464	17.465 (1.052)	63	1987941	51.6154	51.615	80.00- 120.00	100.00
17.464	17.465 (1.052)	62	1440999			22.12- 122.12	72.49
17.464	17.465 (1.052)	41	1538500			28.20- 128.20	77.39
103 1,4-Dioxane					CAS #: 123-91-1		
17.603	17.603 (1.060)	88	992322	48.1613	48.161	80.00- 120.00	100.00
17.603	17.603 (1.060)	58	1105296			59.05- 159.05	111.38
17.603	17.603 (1.060)	57	352985			0.00- 85.51	35.57
105 Bromodichloromethane					CAS #: 75-27-4		
17.852	17.852 (1.075)	83	3013688	53.0291	53.029	80.00- 120.00	100.00
17.852	17.852 (1.075)	85	1916884			13.73- 113.73	63.61
109 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
18.515	18.515 (1.115)	75	2483691	52.2035	52.203	80.00- 120.00	100.00
18.515	18.515 (1.115)	77	781914			0.00- 81.39	31.48
18.515	18.515 (1.115)	39	2106473			34.34- 134.34	84.81
110 4-Methyl-2-pentanone					CAS #: 108-10-1		
18.681	18.681 (1.125)	58	2154953	50.3473	50.347	80.00- 120.00	100.00
18.681	18.681 (1.125)	43	6432876			246.81- 346.81	298.52
18.681	18.681 (1.125)	85	628681			0.00- 80.93	29.17

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
112 Toluene					CAS #: 108-88-3		
18.958	18.958 (1.141)	91	5247474	53.6196	53.620	80.00- 120.00	100.00
18.958	18.958 (1.141)	92	3152411			10.11- 110.11	60.07
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
19.317	19.317 (0.922)	75	2643478	54.7505	54.750	80.00- 120.00	100.00
19.317	19.317 (0.922)	77	832527			0.00- 81.95	31.49
19.317	19.317 (0.922)	39	2065805			28.89- 128.89	78.15
116 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.593	19.594 (0.935)	97	1768689	50.9612	50.961	80.00- 120.00	100.00
19.593	19.594 (0.935)	99	1096059			11.91- 111.91	61.97
19.593	19.594 (0.935)	83	1527531			37.33- 137.33	86.37
117 Tetrachloroethene					CAS #: 127-18-4		
19.704	19.704 (0.941)	166	2164820	51.1857	51.186	80.00- 120.00	100.00
19.704	19.704 (0.941)	129	1600069			24.42- 124.42	73.91
19.704	19.704 (0.941)	131	1571731			23.59- 123.59	72.60
119 2-Hexanone					CAS #: 591-78-6		
19.842	19.842 (0.947)	58	3159519	48.3909	48.391	80.00- 120.00	100.00
19.842	19.842 (0.947)	43	6744004			166.00- 266.00	213.45
19.842	19.842 (0.947)	100	447755			0.00- 64.00	14.17
121 Dibromochloromethane					CAS #: 124-48-1		
20.174	20.147 (0.963)	129	2701578	50.8729	50.873	80.00- 120.00	100.00
20.174	20.147 (0.963)	127	2121096			28.55- 128.55	78.51
122 1,2-Dibromoethane					CAS #: 106-93-4		
20.395	20.395 (0.974)	107	2707028	48.5925	48.592	80.00- 120.00	100.00
20.395	20.395 (0.974)	109	2538809			44.81- 144.81	93.79
124 Chlorobenzene					CAS #: 108-90-7		
21.004	21.004 (1.003)	112	4354274	48.9633	48.963	80.00- 120.00	100.00
21.004	21.004 (1.003)	114	1356629			0.00- 81.19	31.16
20.976	20.976 (1.001)	77	3527053			31.43- 131.43	81.00
125 Ethyl Benzene					CAS #: 100-41-4		
21.059	21.059 (1.005)	106	2333016	49.3963	49.396	80.00- 120.00	100.00
21.059	21.059 (1.005)	91	7802565			278.40- 378.40	334.44
128 m,p-Xylene					CAS #: 108-38-3		
21.197	21.197 (1.012)	106	2999851	50.2697	50.270	80.00- 120.00	100.00
21.197	21.197 (1.012)	91	6350153			159.22- 259.22	211.68
129 o-Xylene					CAS #: 95-47-6		
21.750	21.750 (1.038)	106	2770951	51.1705	51.170	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
129 o-Xylene (continued)							
21.750	21.750 (1.038)	91	6251667			174.36- 274.36	225.61
130 Styrene					CAS #: 100-42-5		
21.778	21.778 (1.040)	104	4670809	49.9369	49.937	80.00- 120.00	100.00
21.778	21.778 (1.040)	78	2527116			4.21- 104.21	54.10
132 Bromoform					CAS #: 75-25-2		
22.137	22.137 (1.057)	173	2703904	53.8737	53.874	80.00- 120.00	100.00
22.137	22.137 (1.057)	171	1389759			1.94- 101.94	51.40
133 Cumene					CAS #: 98-82-8		
22.193	22.193 (1.059)	105	8632905	49.7443	49.744	80.00- 120.00	100.00
22.193	22.193 (1.059)	120	2148741			0.00- 75.11	24.89
22.193	22.193 (1.059)	51	1458297			0.00- 67.68	16.89
136 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
22.663	22.663 (1.082)	83	4492485	56.9728	56.973	80.00- 120.00	100.00
22.663	22.663 (1.082)	85	2848020			12.97- 112.97	63.40
139 Propylbenzene					CAS #: 103-65-1		
22.746	22.746 (1.086)	91	11212620	55.7843	55.784	80.00- 120.00	100.00
22.746	22.746 (1.086)	120	2296618			0.00- 71.22	20.48
22.746	22.746 (1.086)	105	406695			0.00- 54.12	3.63
142 4-Ethyltoluene					CAS #: 622-96-8		
22.884	22.884 (1.092)	105	9489725	55.0206	55.020	80.00- 120.00	100.00
22.884	22.884 (1.092)	120	2618436			0.00- 77.62	27.59
144 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
22.967	22.967 (1.096)	105	9197967	49.1407	49.141	80.00- 120.00	100.00
22.967	22.967 (1.096)	120	3940297			0.00- 93.95	42.84
149 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
23.464	23.465 (1.120)	105	7300472	49.4298	49.430	80.00- 120.00	100.00
23.464	23.465 (1.120)	120	3142749			0.00- 93.08	43.05
154 1,3-Dichlorobenzene					CAS #: 541-73-1		
23.962	23.935 (1.144)	146	4205292	54.4656	54.466	80.00- 120.00	100.00
23.962	23.935 (1.144)	148	2643267			12.34- 112.34	62.86
23.934	23.935 (1.143)	111	1933373			0.00- 95.73	45.97
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.073	24.073 (1.149)	146	4129831	53.4077	53.408	80.00- 120.00	100.00
24.073	24.073 (1.149)	148	2592630			11.83- 111.83	62.78
24.073	24.073 (1.149)	111	1808409			0.00- 94.91	43.79

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
158 alpha-Chlorotoluene					CAS #: 100-44-7		
24.239	24.239 (1.157)	91	6599708	56.9401	56.940	80.00- 120.00	100.00
24.239	24.239 (1.157)	126	1252329			0.00- 71.00	18.98
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
24.570	24.570 (1.173)	146	3703757	52.9142	52.914	80.00- 120.00	100.00
24.570	24.570 (1.173)	148	2320131			13.02- 113.02	62.64
24.570	24.570 (1.173)	111	1736969			0.00- 97.25	46.90
166 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
26.699	26.700 (1.275)	180	2306856	50.8586	50.858	80.00- 120.00	100.00
26.699	26.700 (1.275)	182	2185178			44.68- 144.68	94.73
167 Hexachlorobutadiene					CAS #: 87-68-3		
26.782	26.782 (1.278)	225	1938446	52.9873	52.987	80.00- 120.00	100.00
26.782	26.782 (1.278)	223	1224093			14.15- 114.15	63.15
168 Naphthalene					CAS #: 91-20-3		
27.114	27.114 (1.294)	128	5079142	49.1046	49.105	80.00- 120.00	100.00
27.114	27.114 (1.294)	127	655970			0.00- 65.25	12.91
29 Isopentane					CAS #: 78-78-4		
9.142	9.142 (0.604)	43	1538486	49.9676	49.968	80.00- 120.00	100.00
9.142	9.142 (0.604)	57	943237			9.74- 109.74	61.31
20 Butane					CAS #: 106-97-8		
6.598	6.571 (0.436)	58	166500	48.8734	48.873	80.00- 120.00	100.00
6.598	6.598 (0.436)	43	1439046			830.20- 930.20	864.29
99 Methyl Cyclohexane					CAS #: 108-87-2		
17.216	17.216 (1.137)	83	2464567	51.1825	51.182	80.00- 120.00	100.00
17.216	17.216 (1.137)	98	1161142			0.00- 99.54	47.11
17.216	17.216 (1.137)	55	3299792			81.83- 181.83	133.89
58 tert-Butyl-Alcohol					CAS #: 75-65-0		
12.847	12.819 (0.848)	59	1204810	57.0382	57.038	80.00- 120.00	100.00
12.819	12.819 (0.847)	41	292261			0.00- 75.27	24.26
12.847	12.819 (0.848)	57	133974			0.00- 64.67	11.12

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdy.i
Lab File ID: y100205.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msdy.i/02oct08.b/t14q930a.m
Misc Info: 200ppbv-->50ppbv

Calibration Date: 02-OCT-2008
Calibration Time: 22:27
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	345904	207542	484266	326683	-5.56
95 1,4-Difluorobenze	1781260	1068756	2493764	1687430	-5.27
123 Chlorobenzene-d5	1762193	1057316	2467070	1649621	-6.39

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
80 Bromochloromethan	15.14	14.81	15.47	15.14	0.00
95 1,4-Difluorobenze	16.61	16.28	16.94	16.61	0.00
123 Chlorobenzene-d5	20.95	20.62	21.28	20.95	0.00

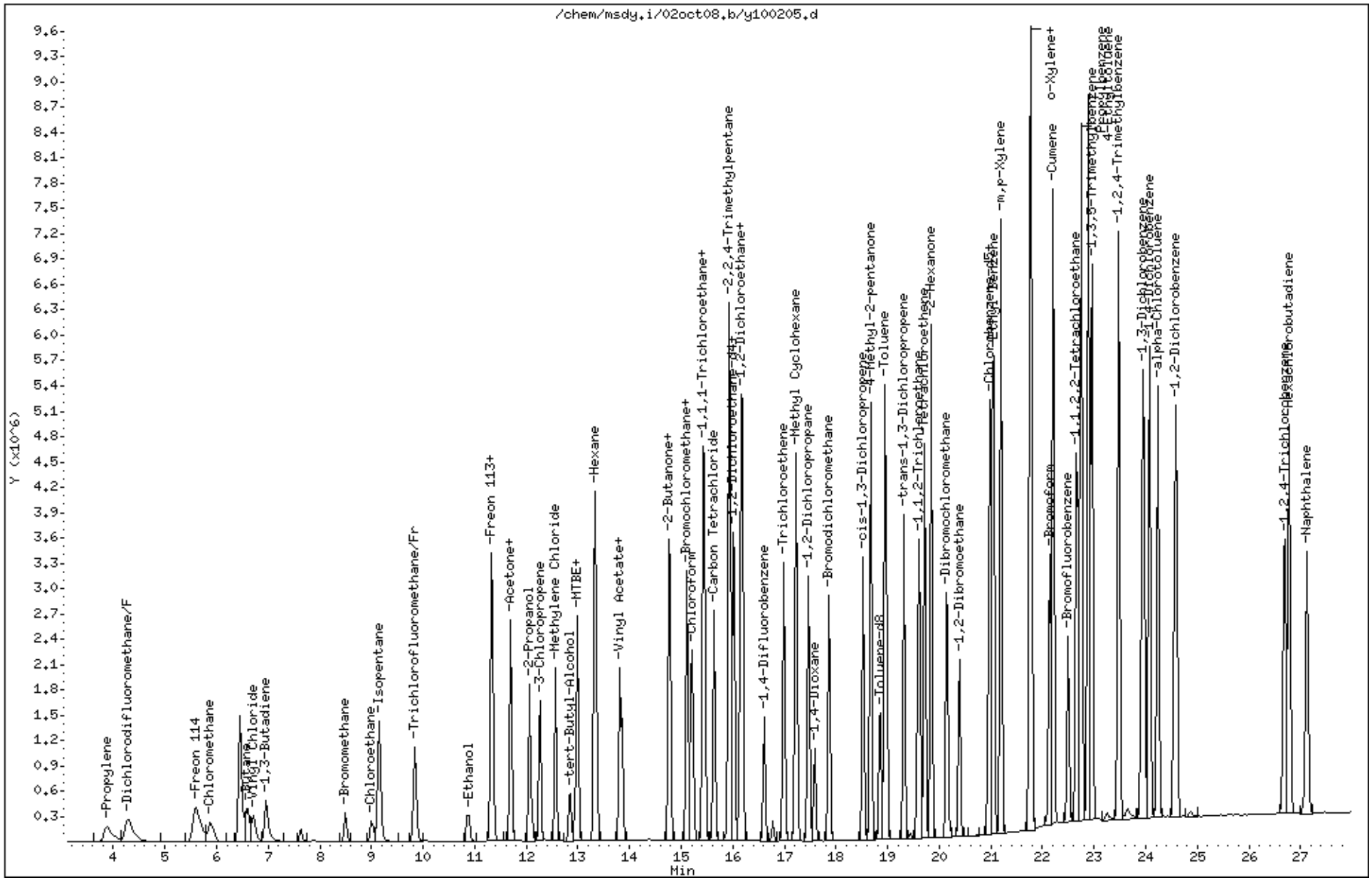
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0237

Data File: /chem/msdy.i/02oct08.b/y100205.d
Date : 02-OCT-2008 23:07
Client ID: LCS-1
Sample Info: 50mL #1612-164

Instrument: msdy.i
Operator: kr
Column diameter: 0.53

Column phase: RTx-624



Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

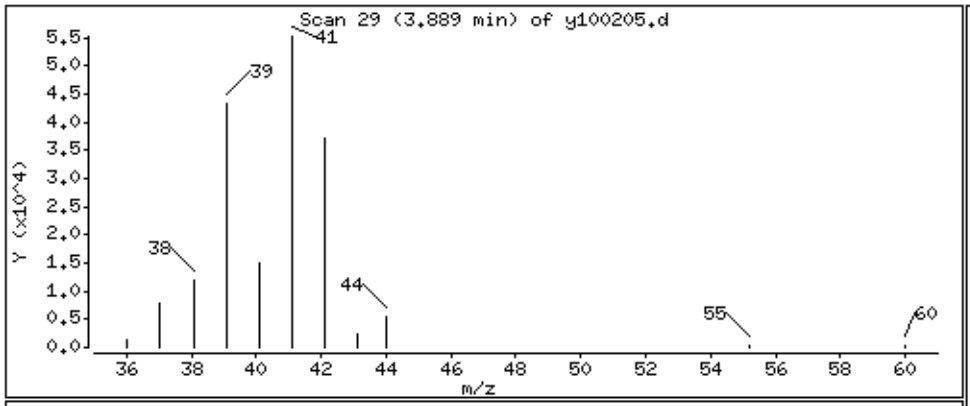
Operator: kr

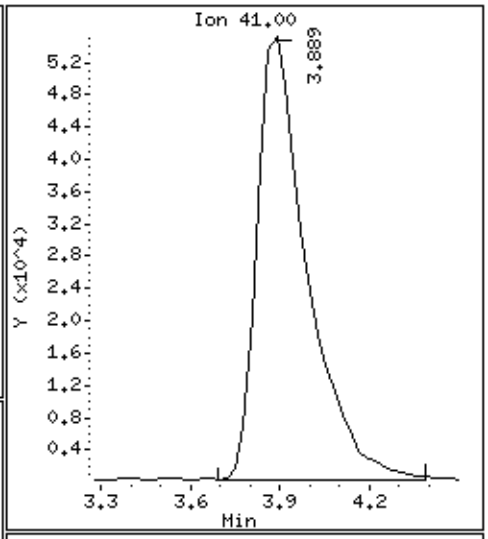
Column phase: RTx-624

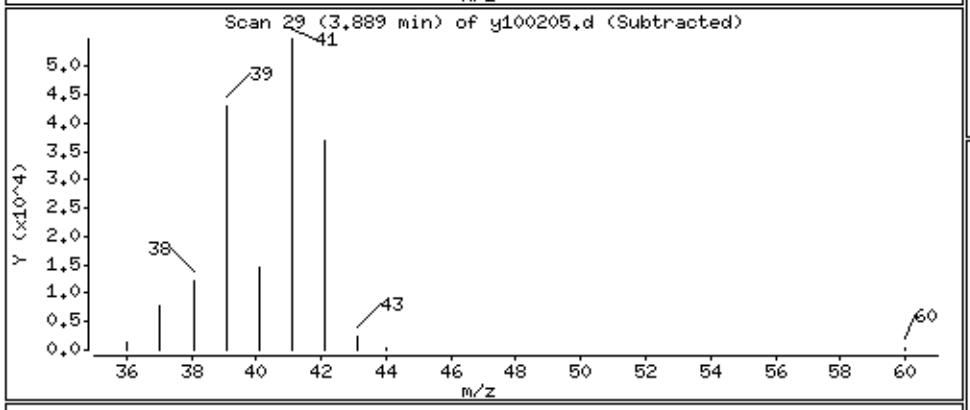
Column diameter: 0.53

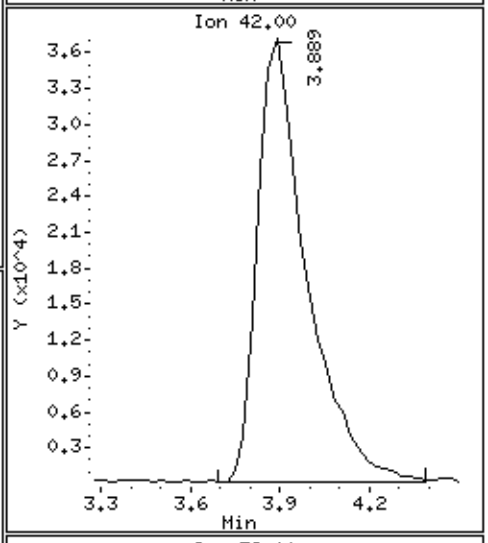
5 Propylene

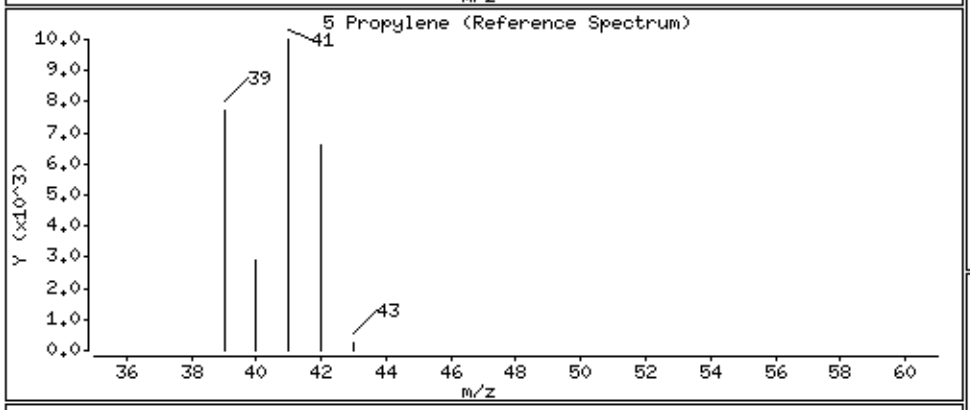
Concentration: 51.282 PPBV

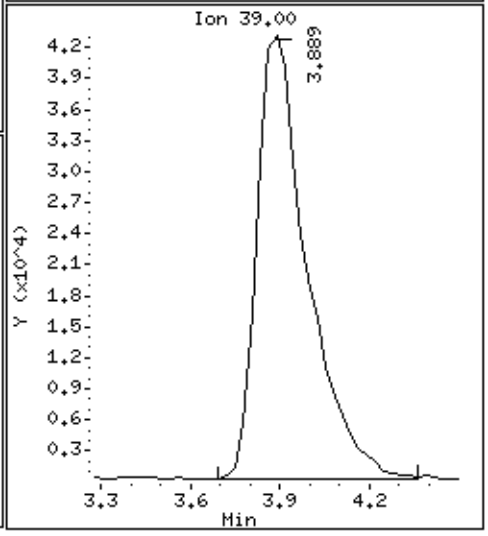


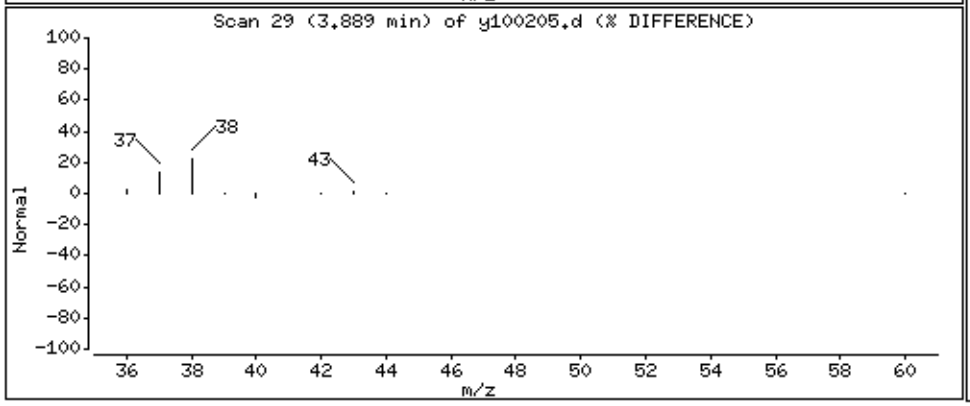












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

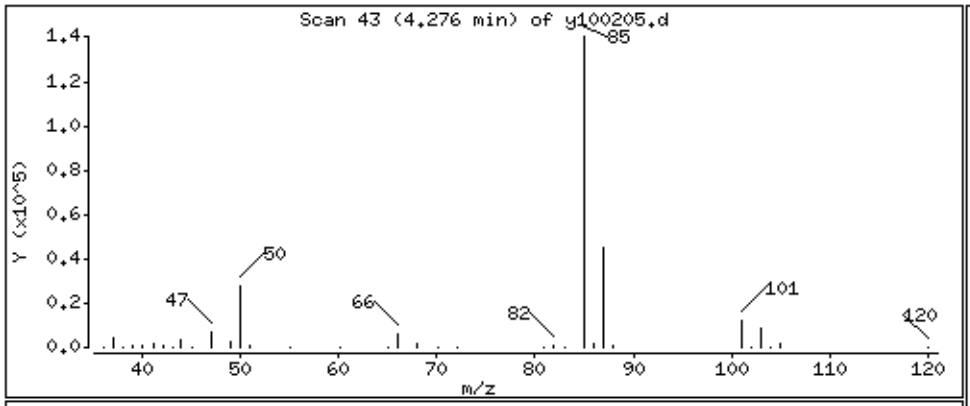
Operator: kr

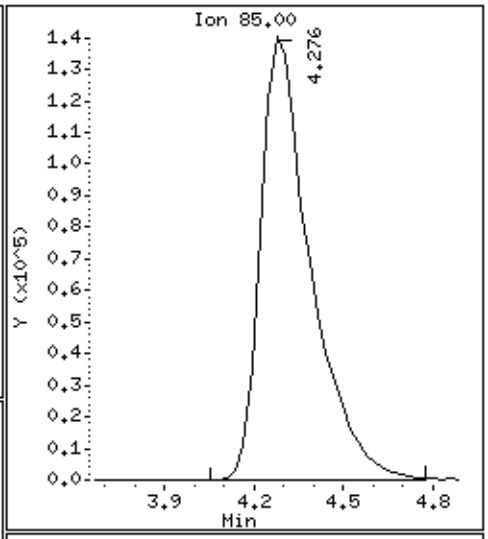
Column phase: RTx-624

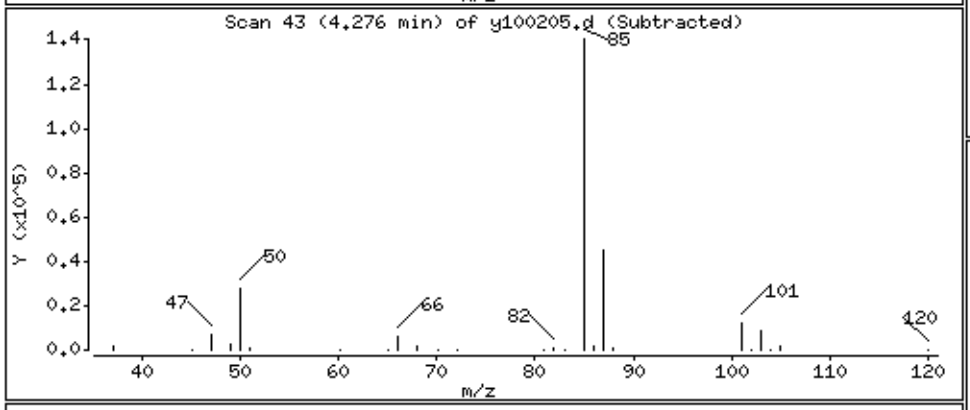
Column diameter: 0.53

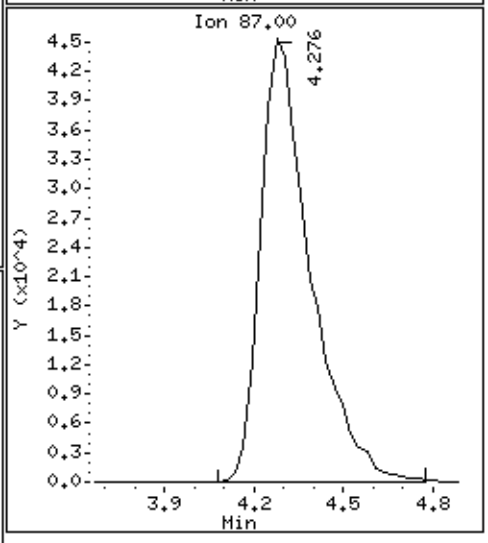
7 Dichlorodifluoromethane/Fr12

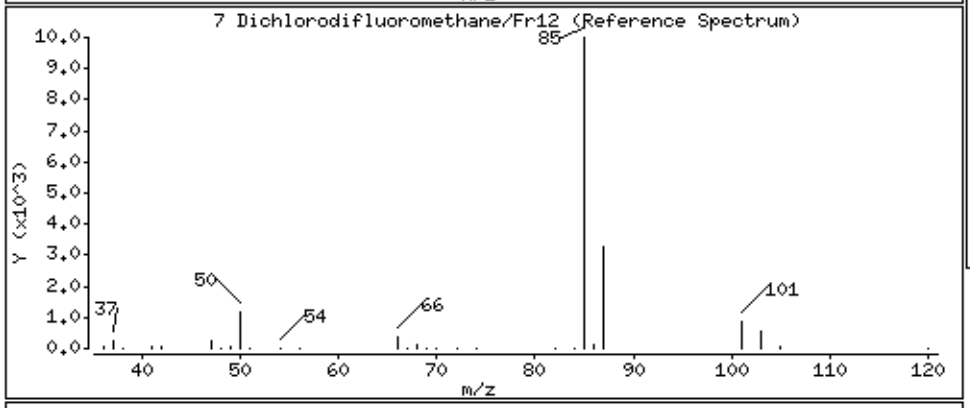
Concentration: 50.700 PPBV

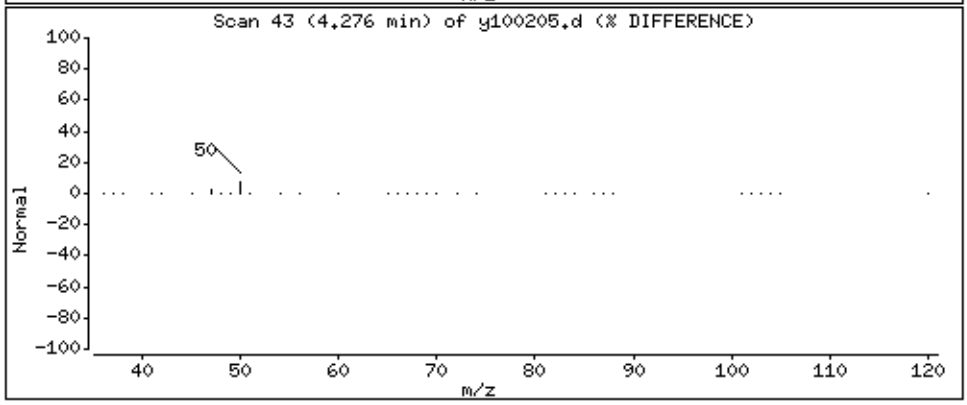












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

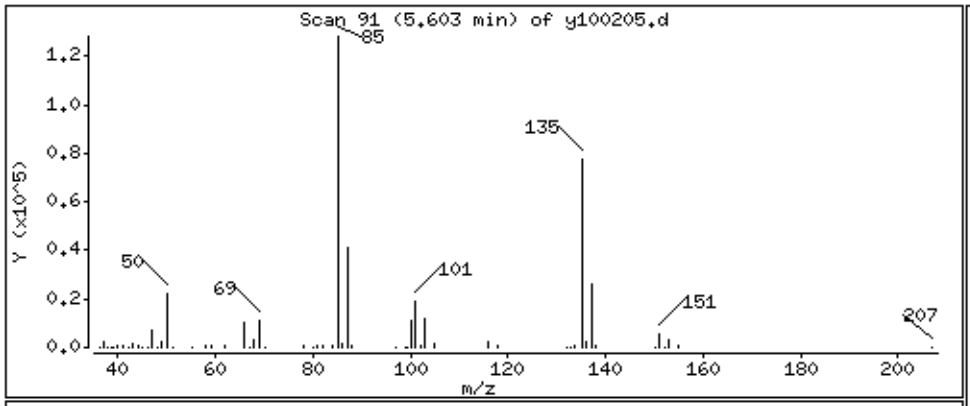
Operator: kr

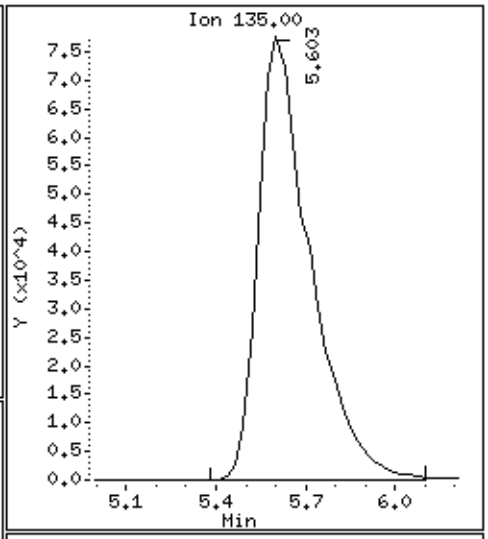
Column phase: RTx-624

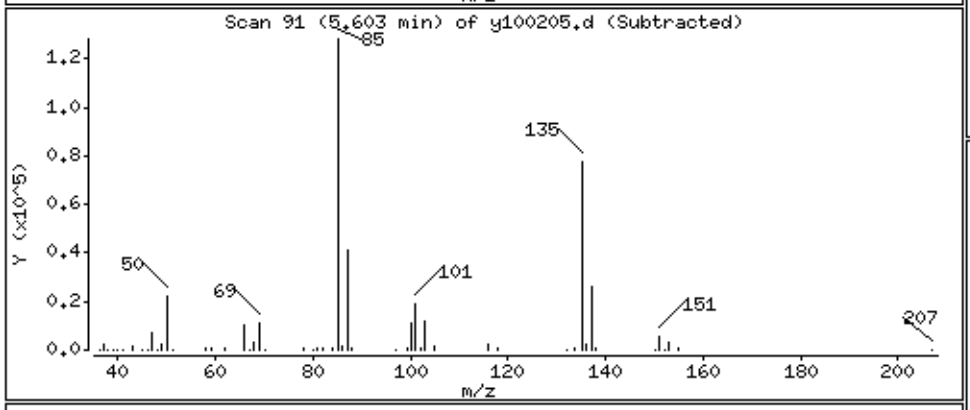
Column diameter: 0.53

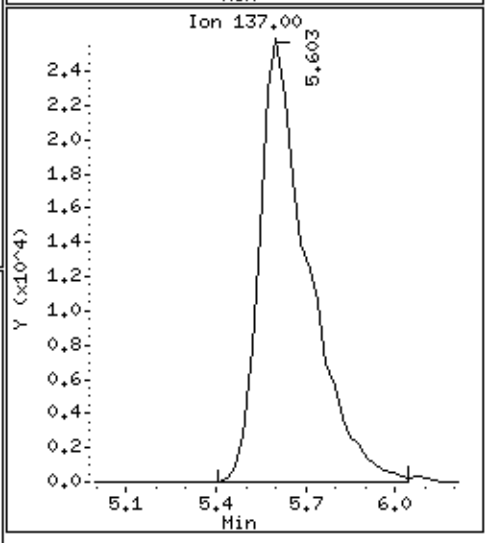
11 Freon 114

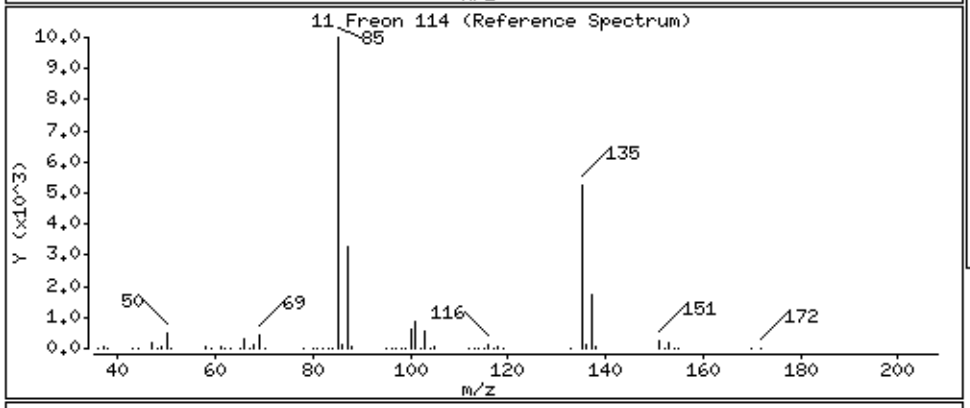
Concentration: 50.886 PPBV

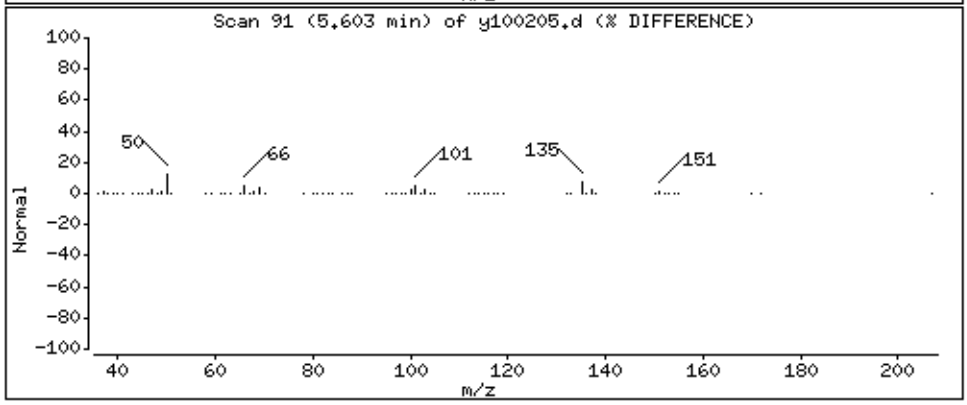












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

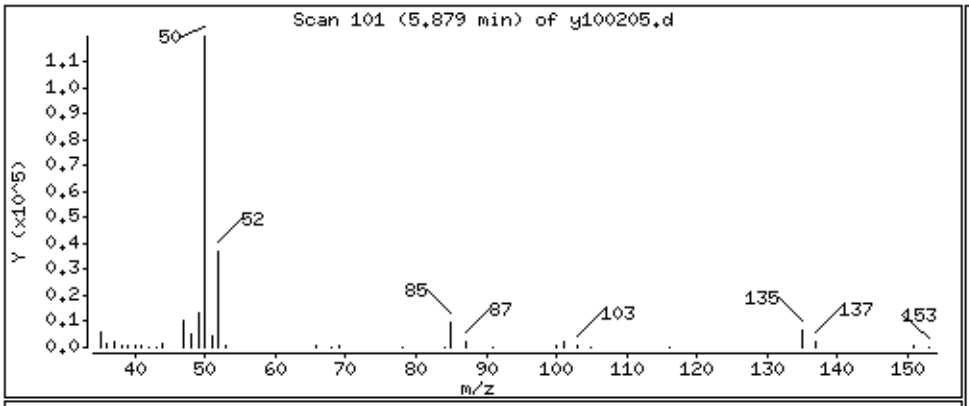
Operator: kr

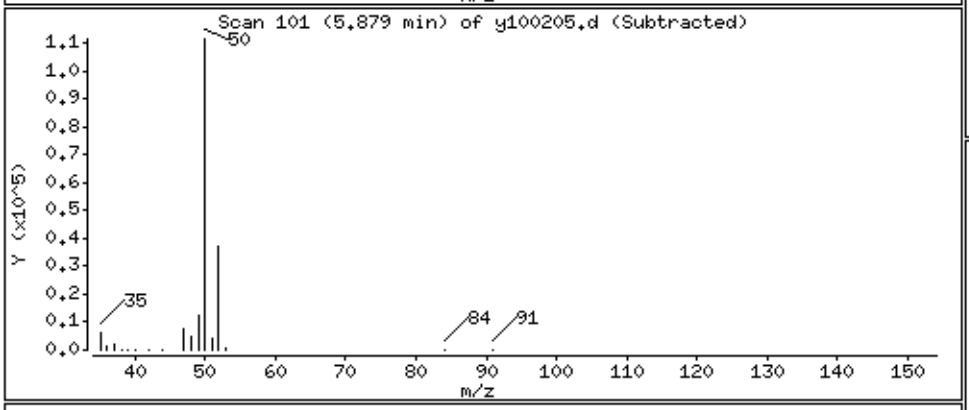
Column phase: RTx-624

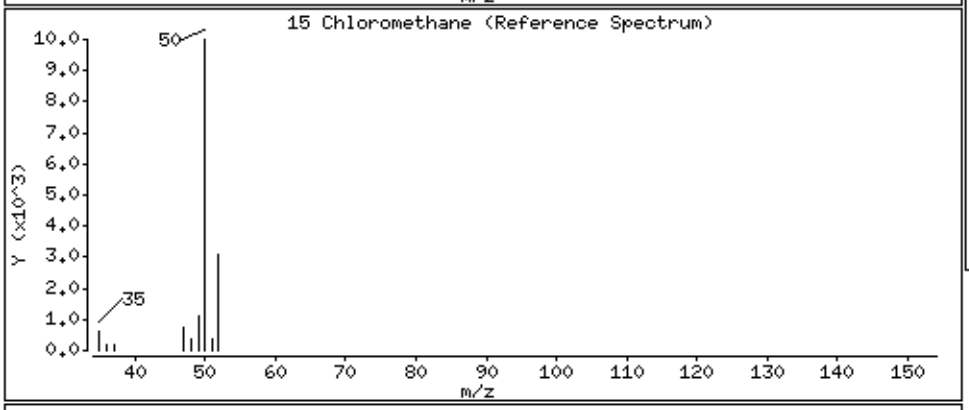
Column diameter: 0.53

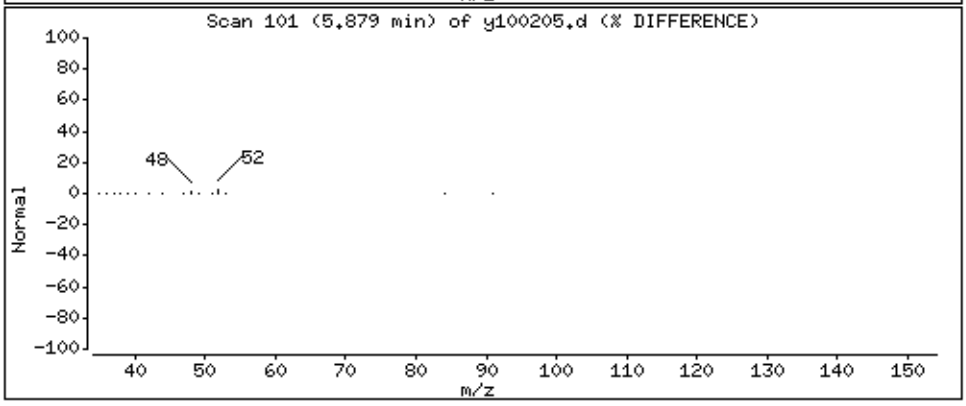
15 Chloromethane

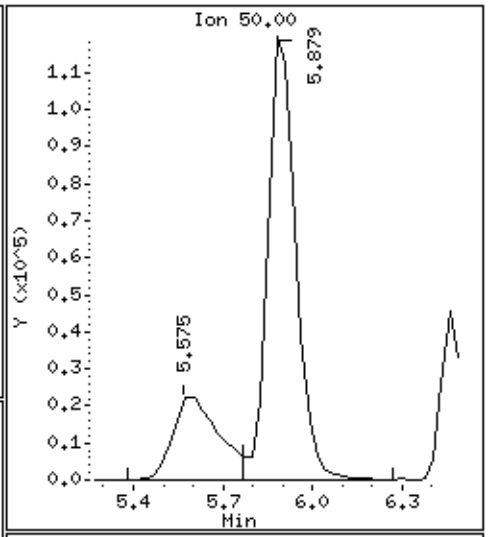
Concentration: 48.382 PPBV

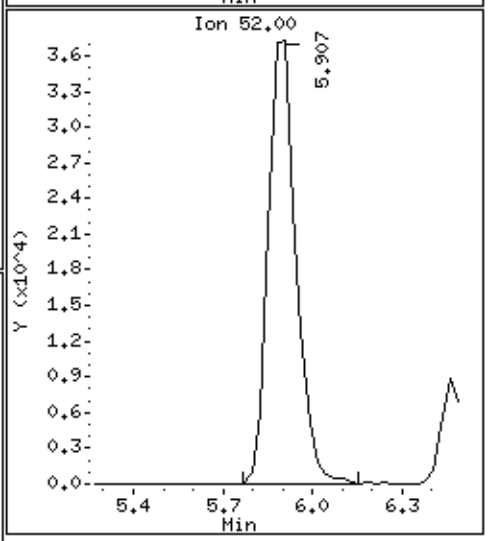












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

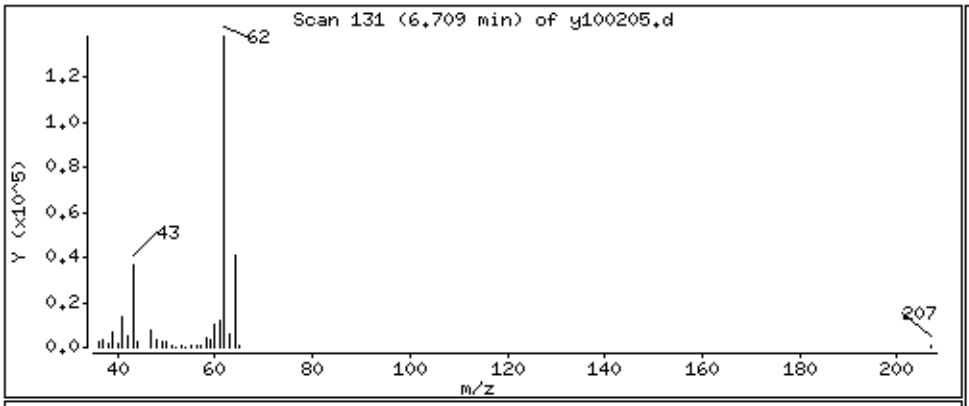
Operator: kr

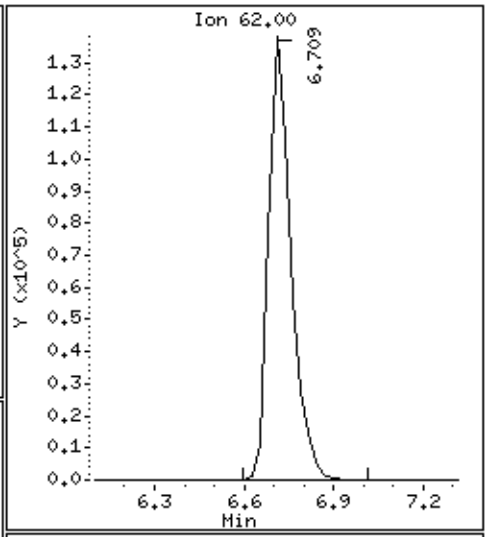
Column phase: RTx-624

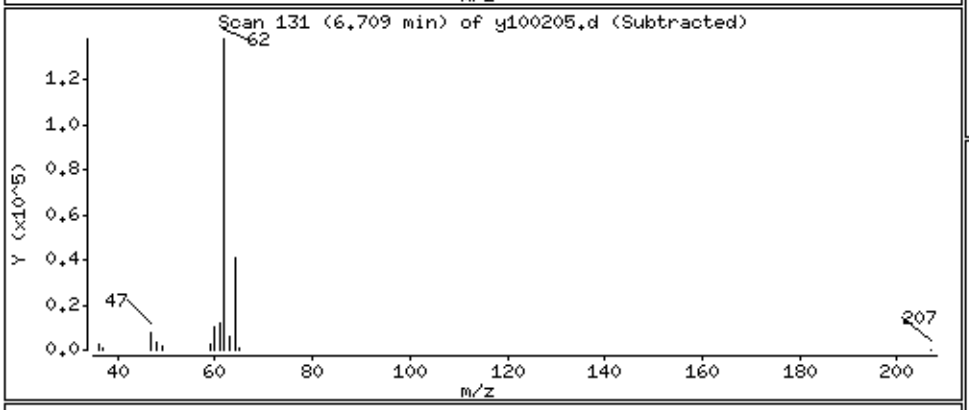
Column diameter: 0.53

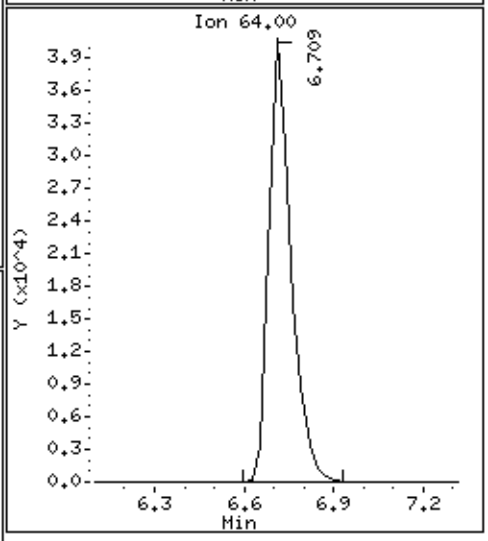
22 Vinyl Chloride

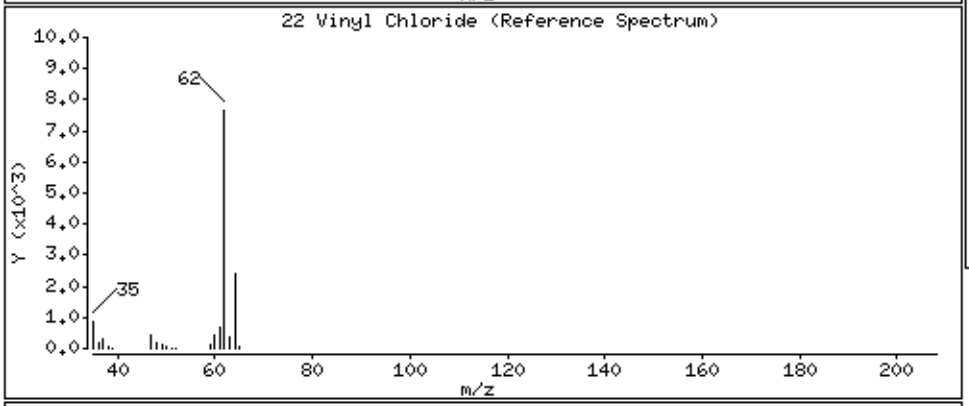
Concentration: 48.038 PPBV

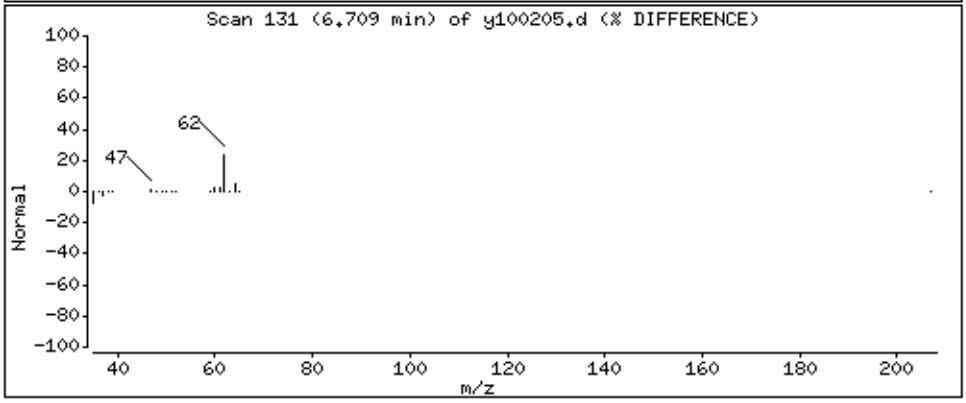












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

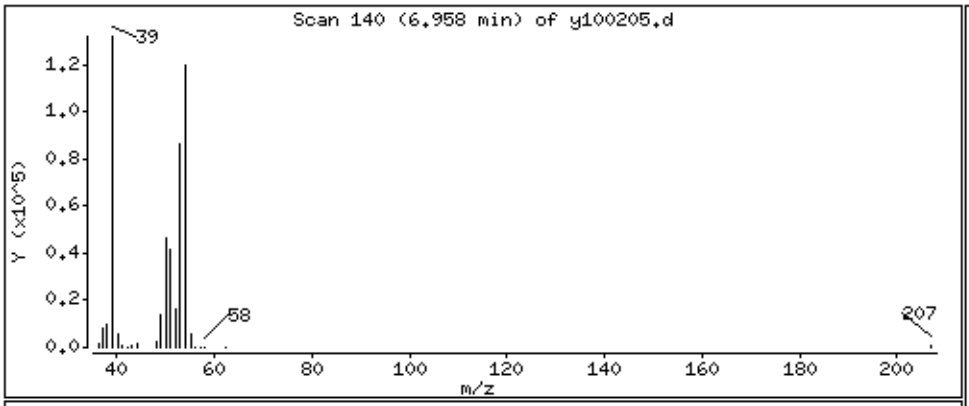
Operator: kr

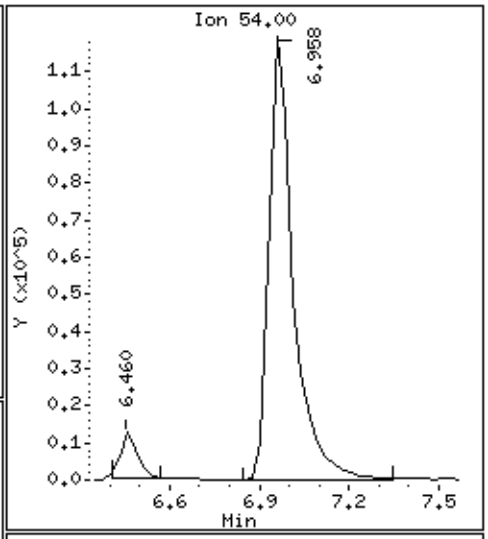
Column phase: RTx-624

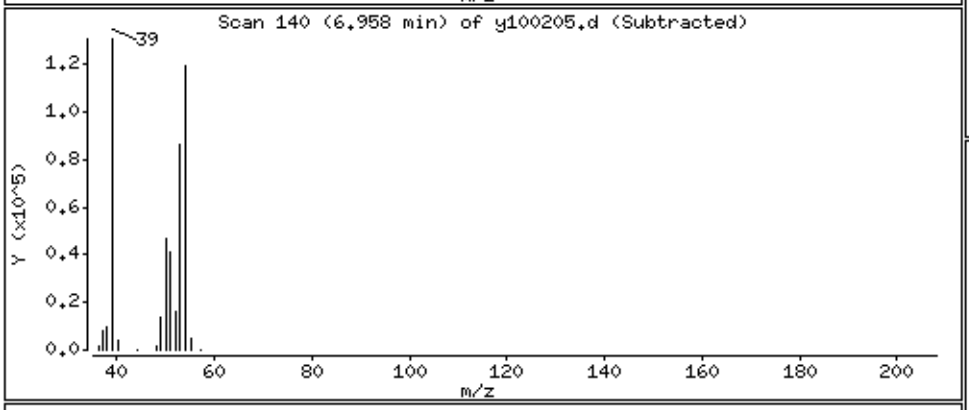
Column diameter: 0.53

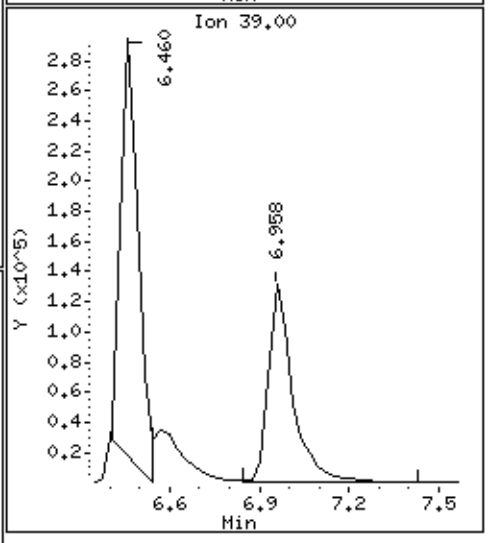
23 1,3-Butadiene

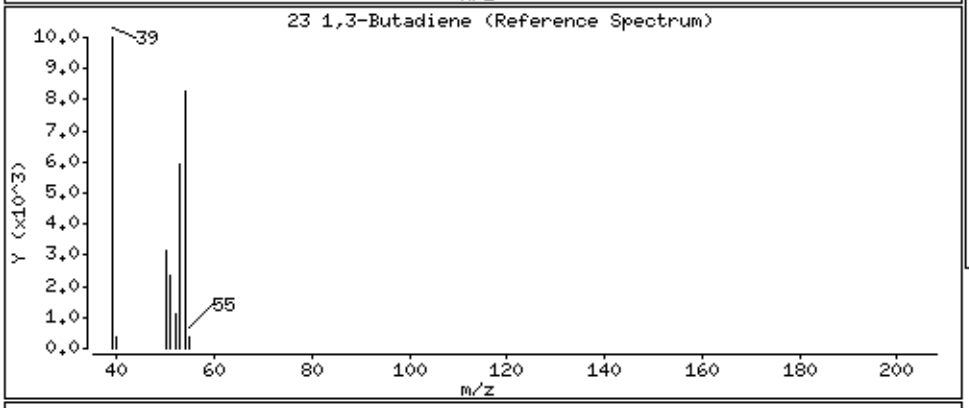
Concentration: 43.230 PPBV

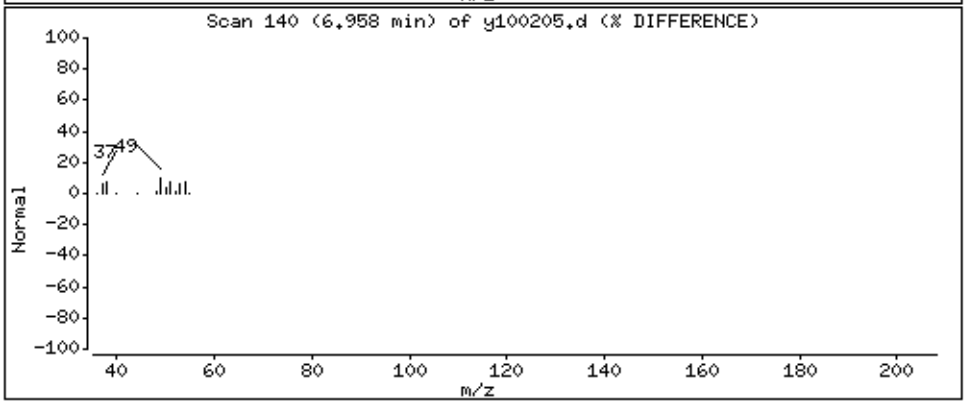












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

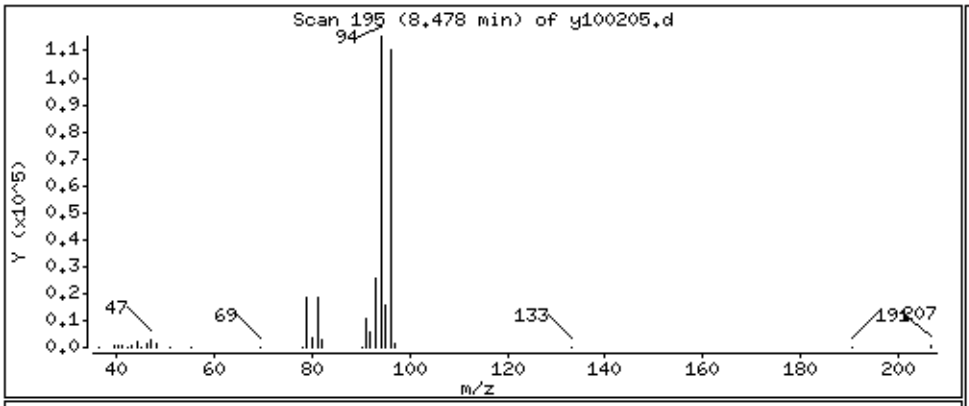
Operator: kr

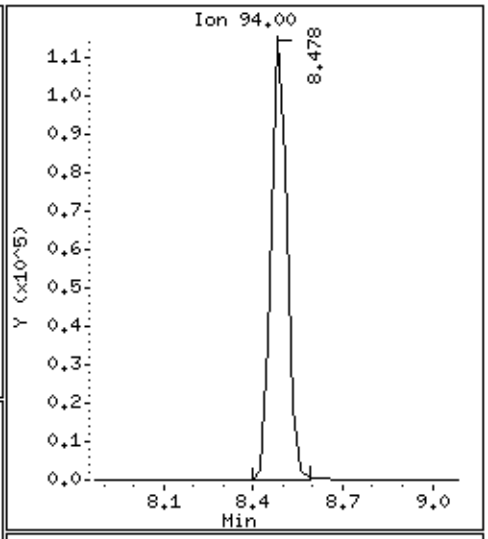
Column phase: RTx-624

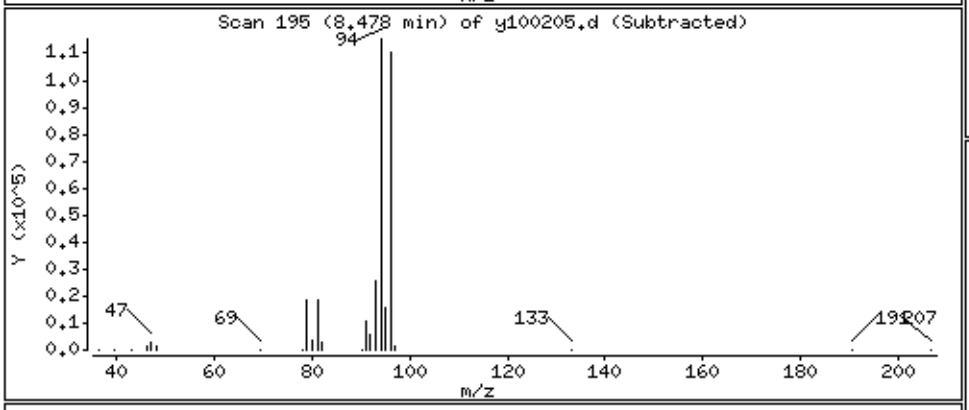
Column diameter: 0.53

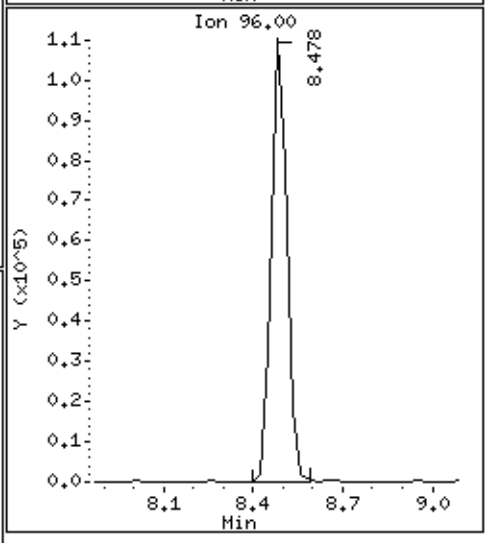
25 Bromomethane

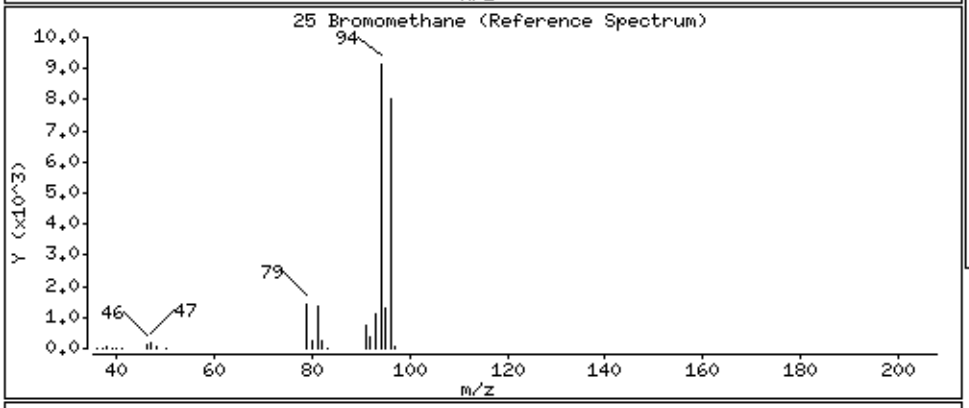
Concentration: 47.596 PPBV

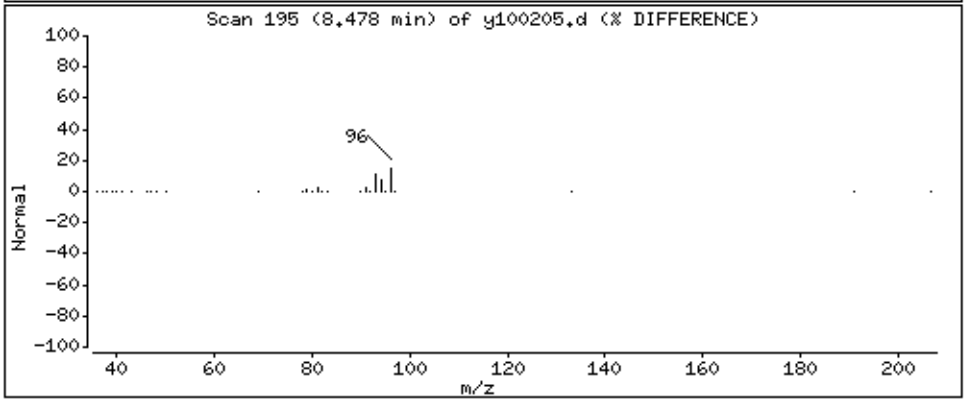












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

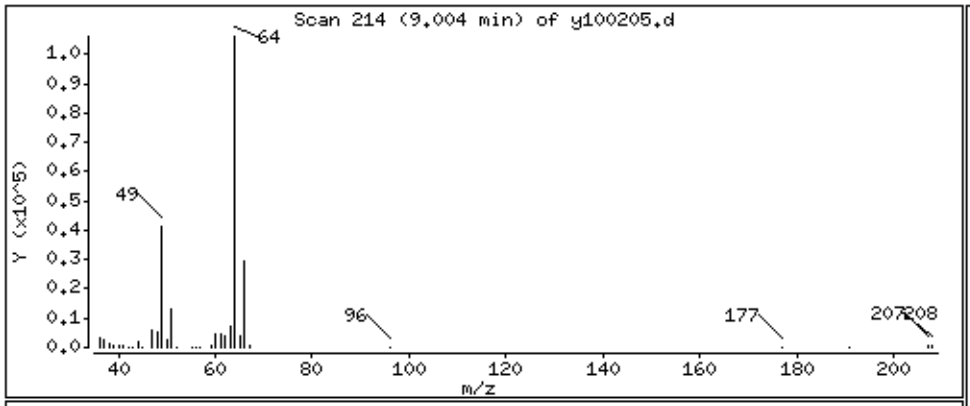
Operator: kr

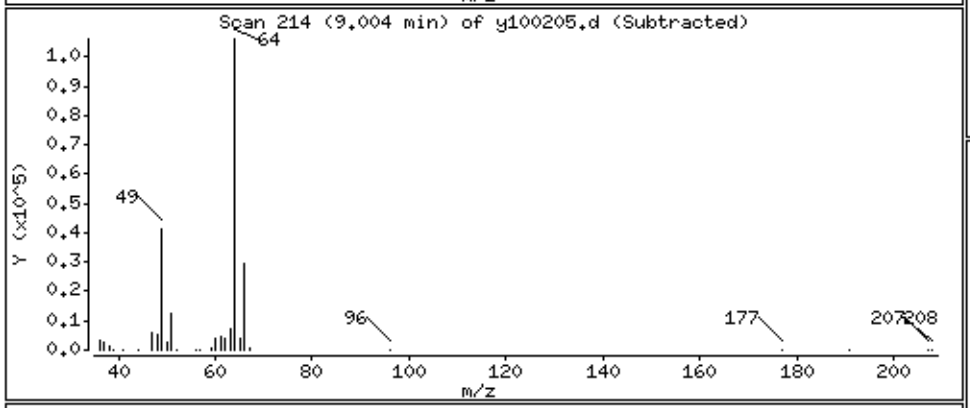
Column phase: RTx-624

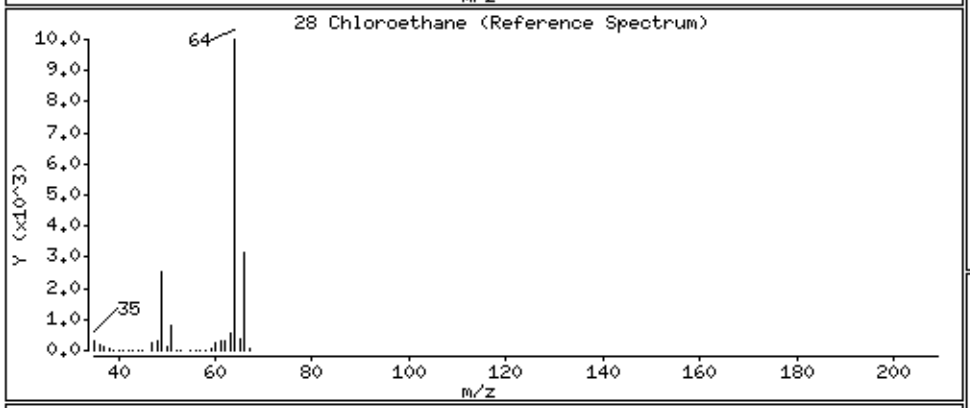
Column diameter: 0.53

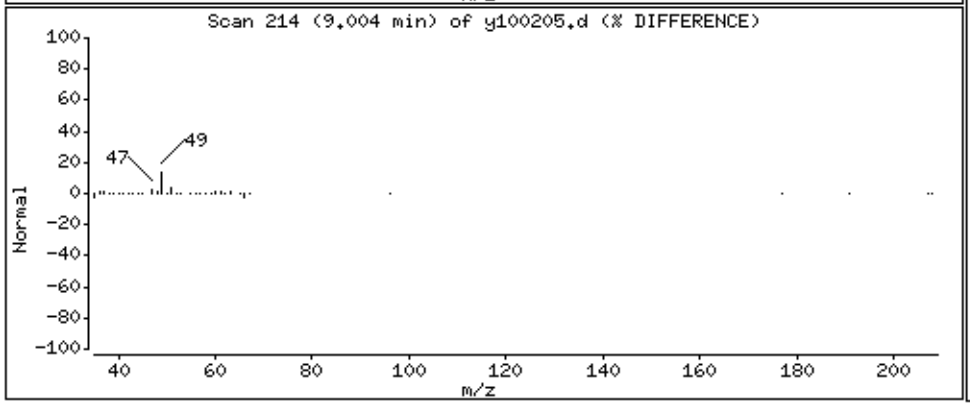
28 Chloroethane

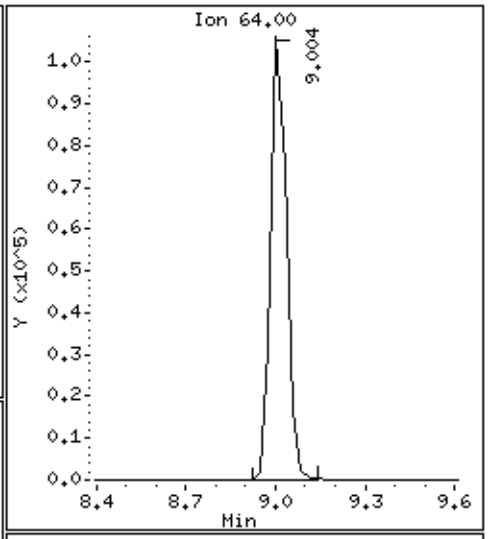
Concentration: 51.199 PPBV

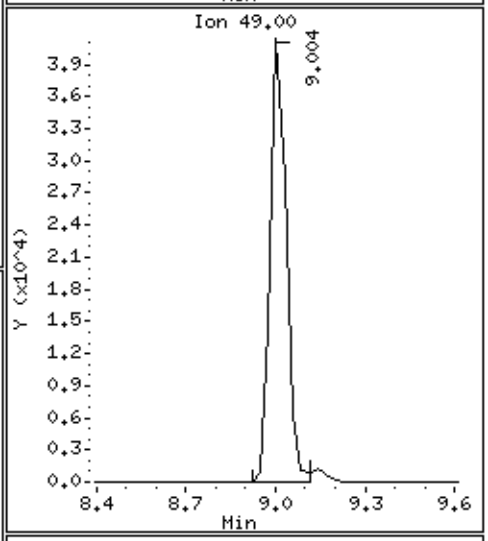


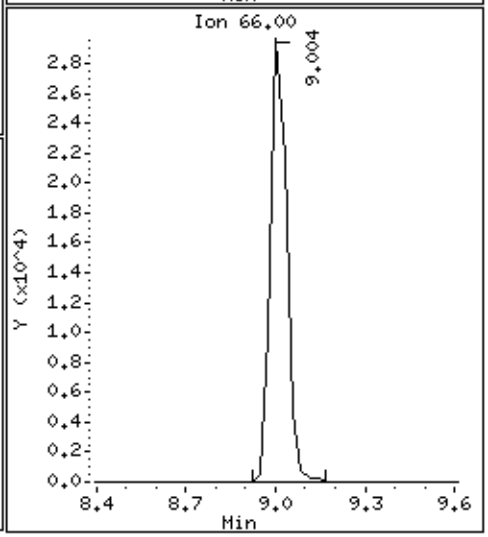












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

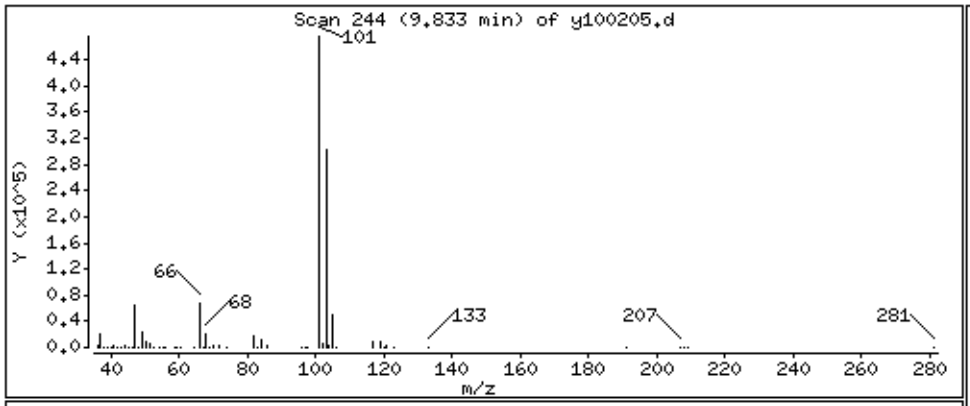
Operator: kr

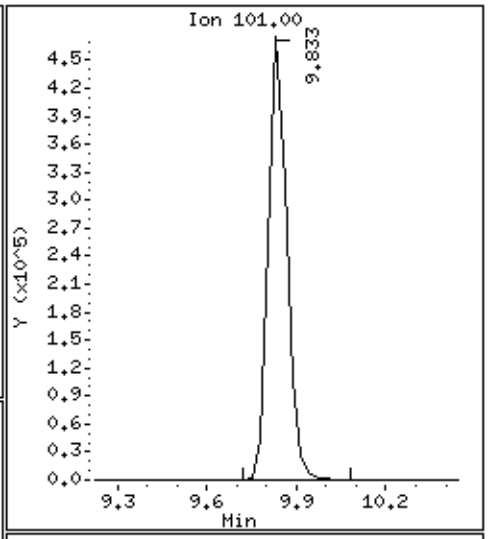
Column phase: RTx-624

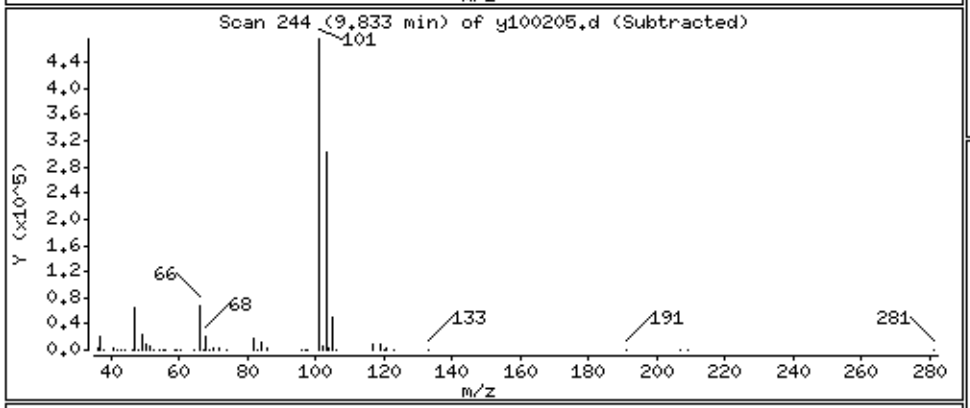
Column diameter: 0.53

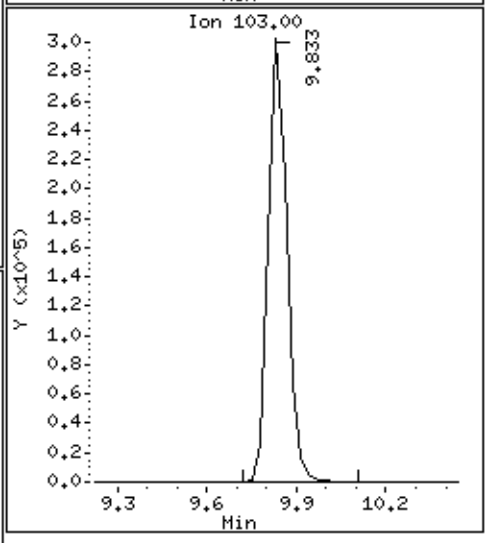
33 Trichlorofluoromethane/Fr11

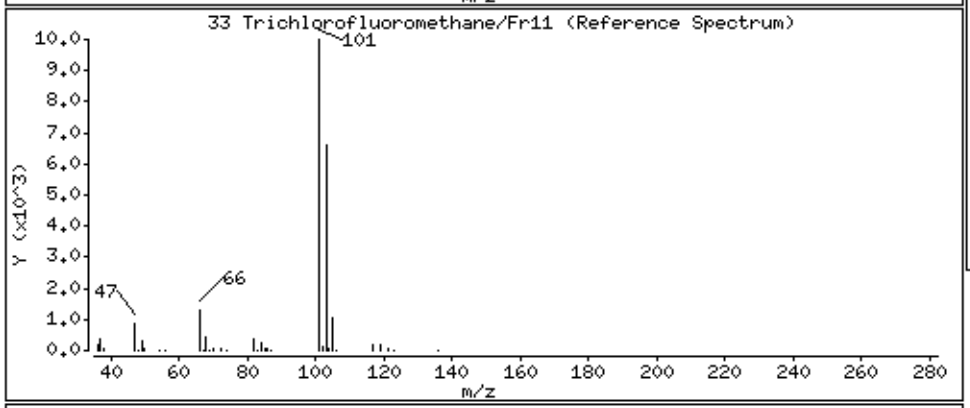
Concentration: 53.923 PPBV

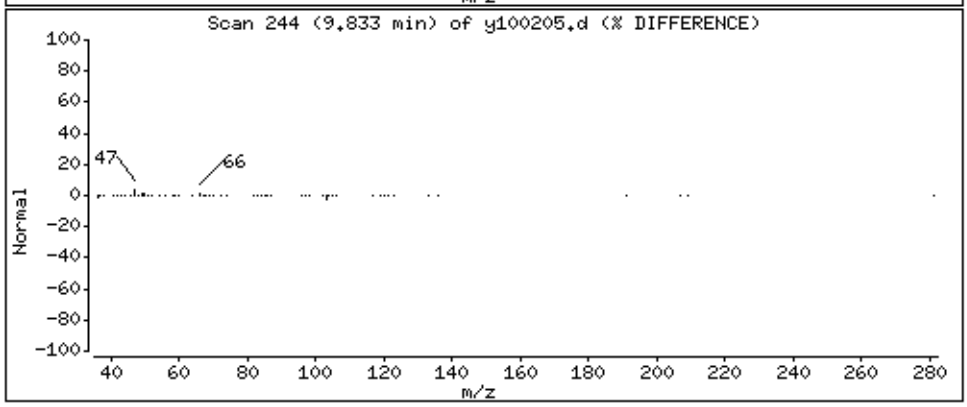












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

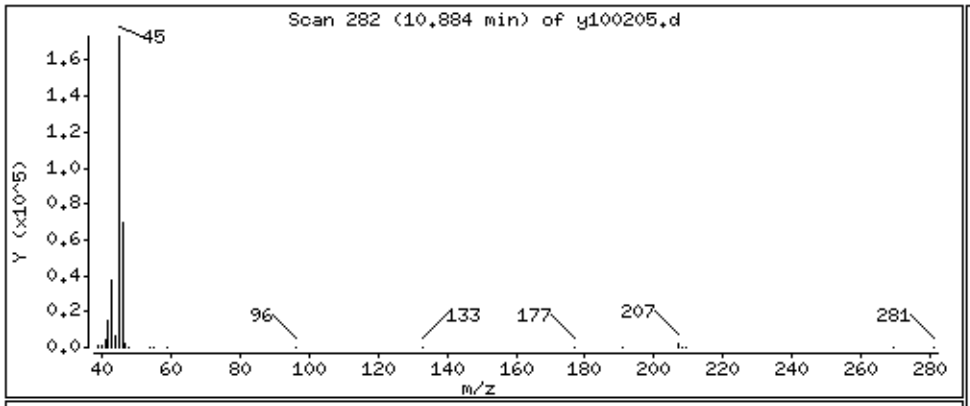
Operator: kr

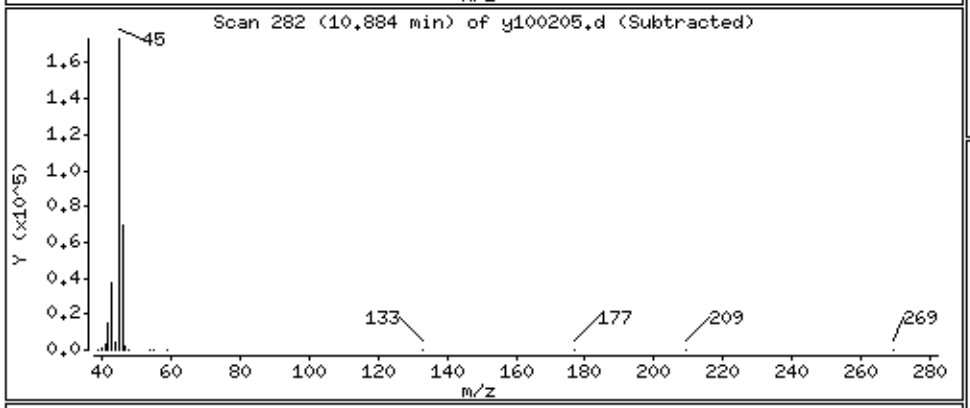
Column phase: RTx-624

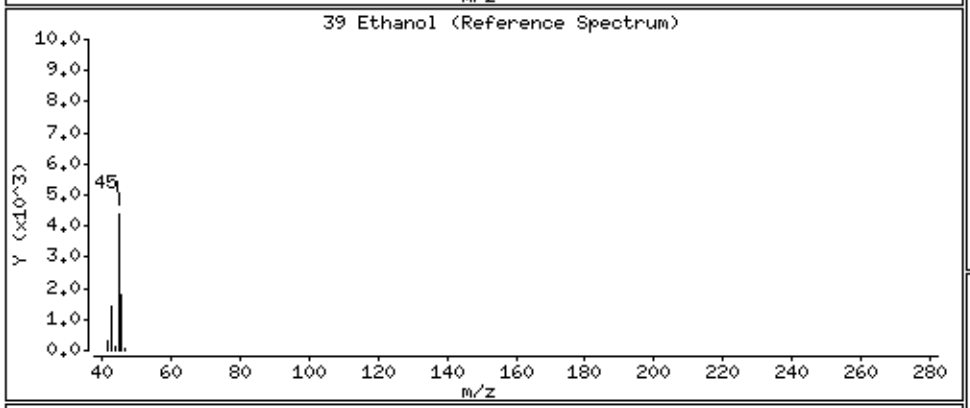
Column diameter: 0.53

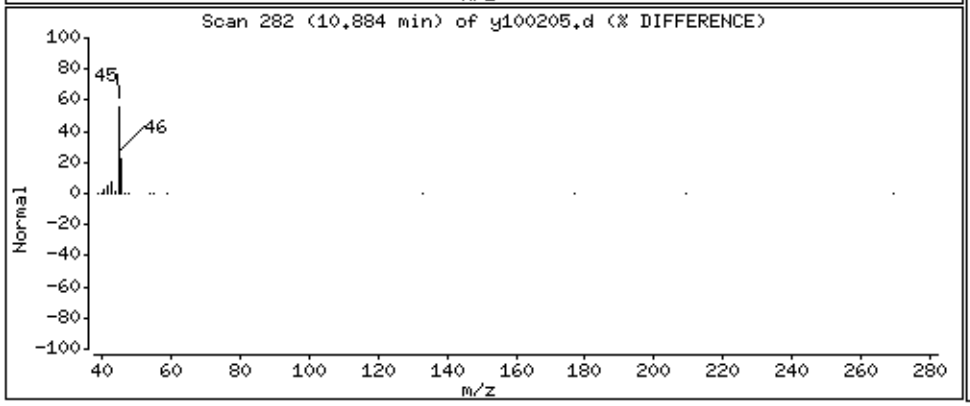
39 Ethanol

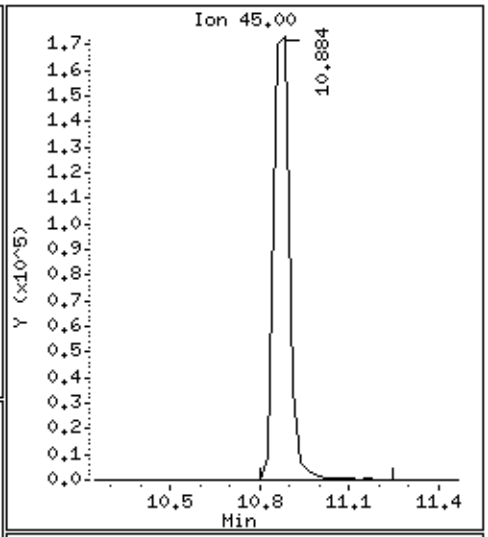
Concentration: 55.893 PPBV

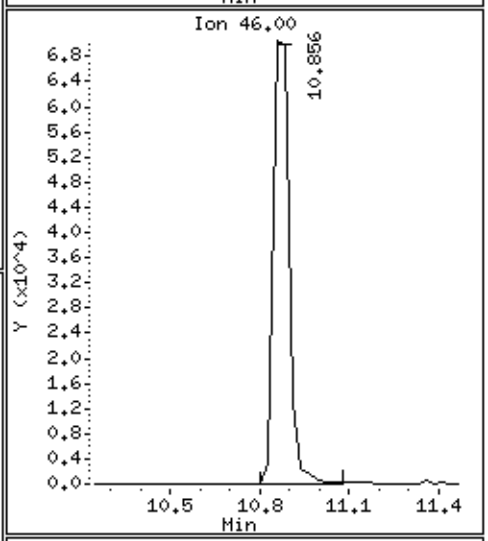


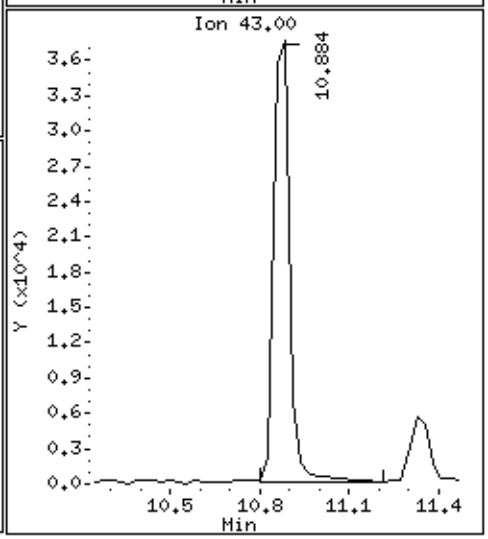












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

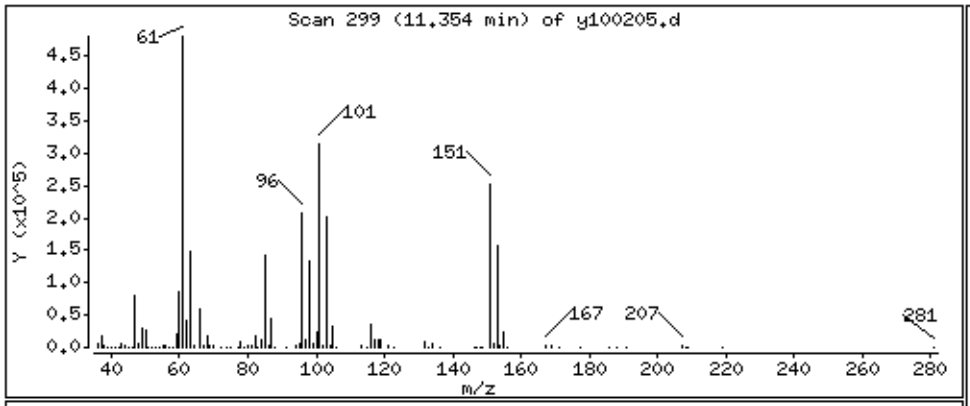
Operator: kr

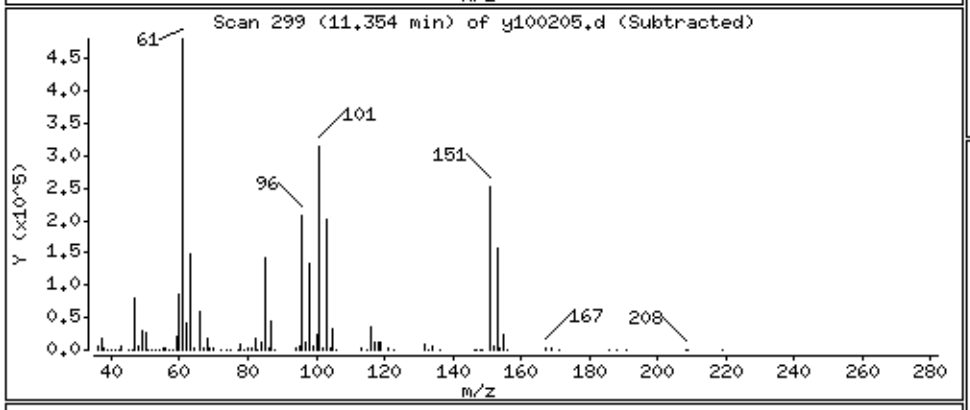
Column phase: RTx-624

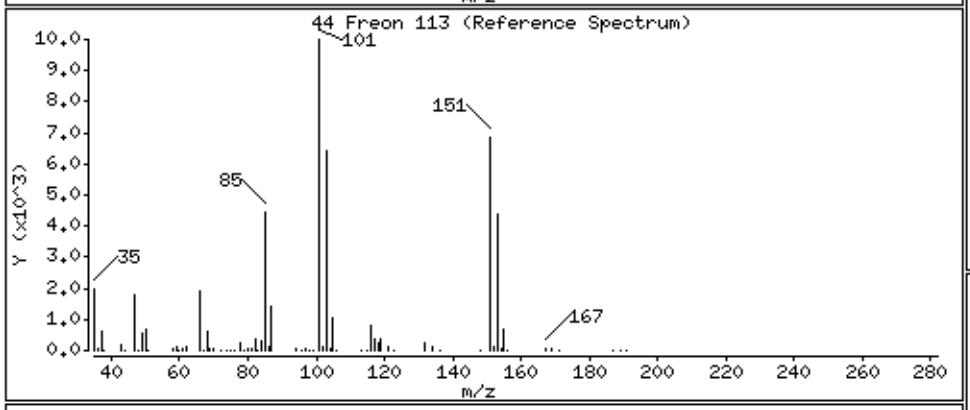
Column diameter: 0.53

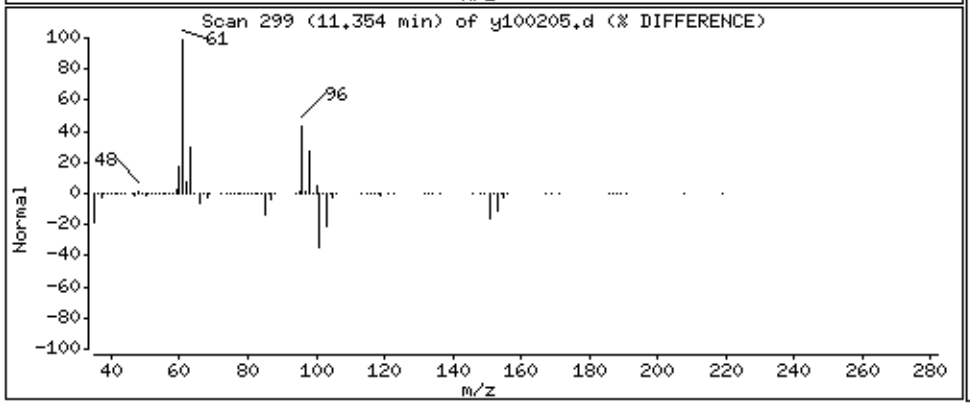
44 Freon 113

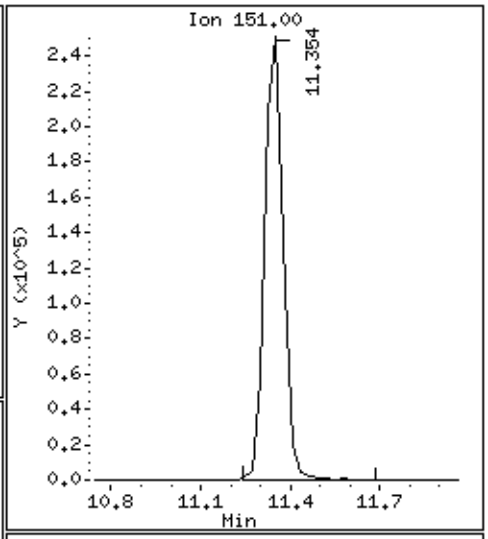
Concentration: 51.739 PPBV

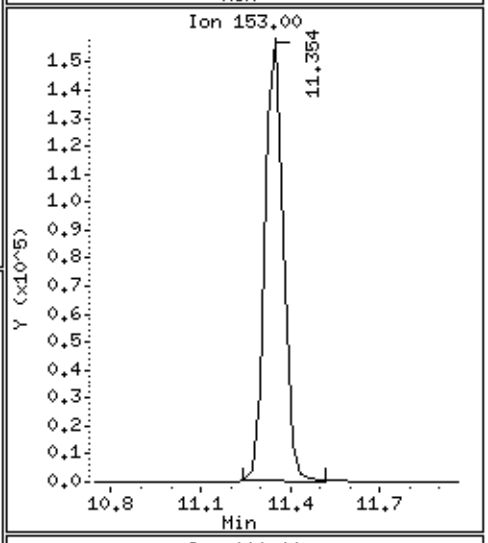


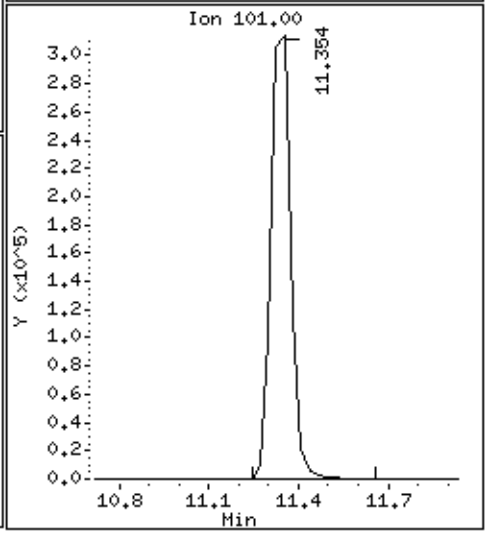












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

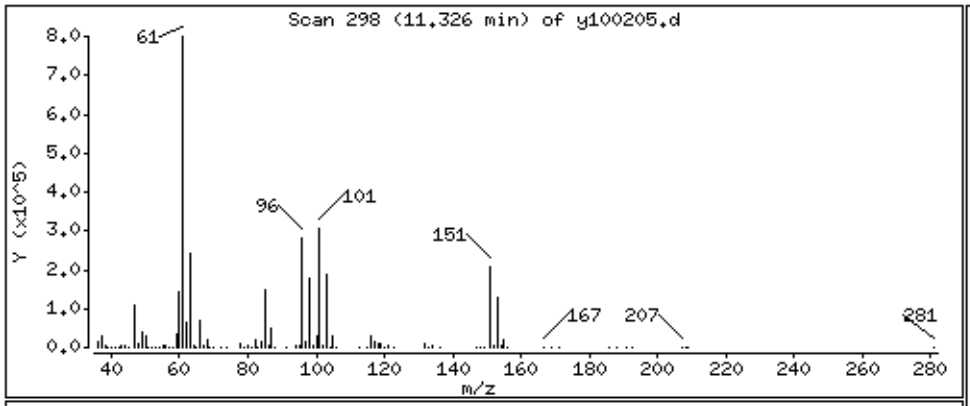
Operator: kr

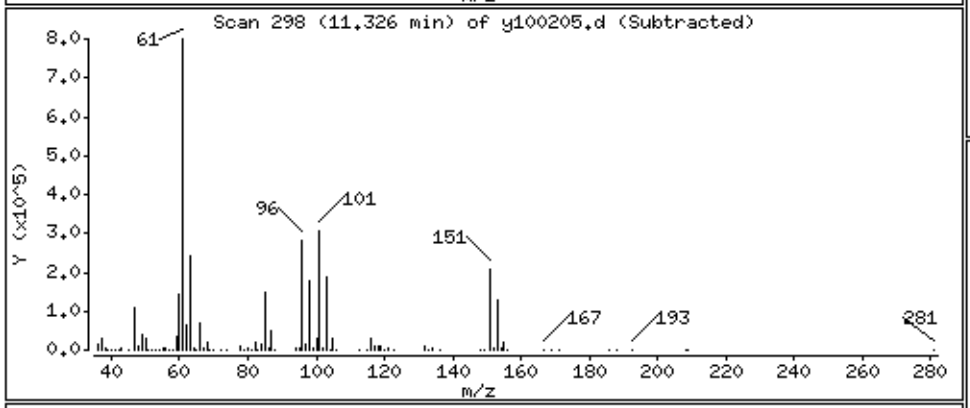
Column phase: RTx-624

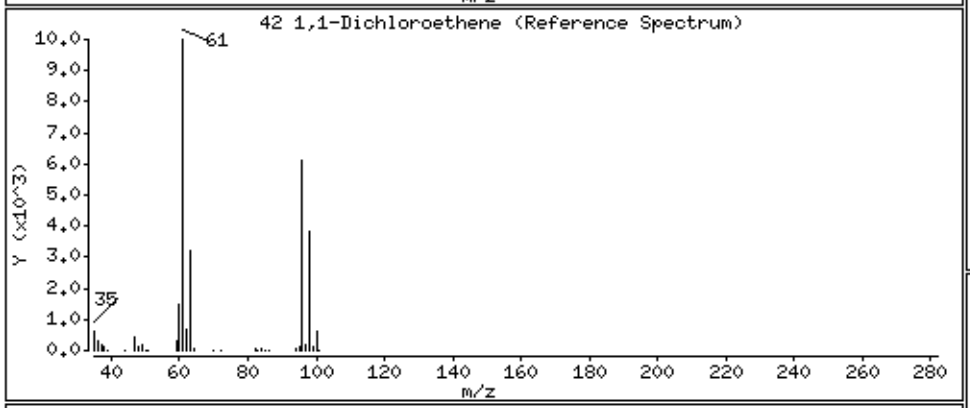
Column diameter: 0.53

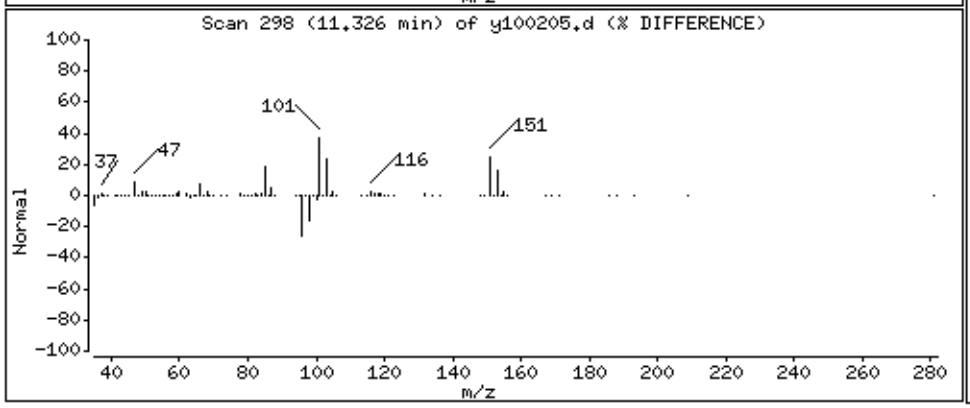
42 1,1-Dichloroethene

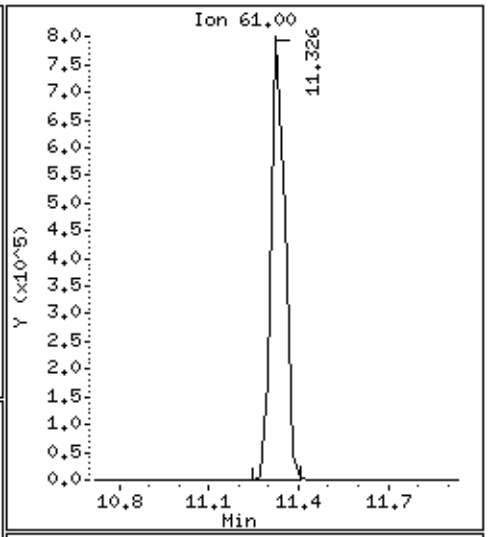
Concentration: 55.138 PPBV

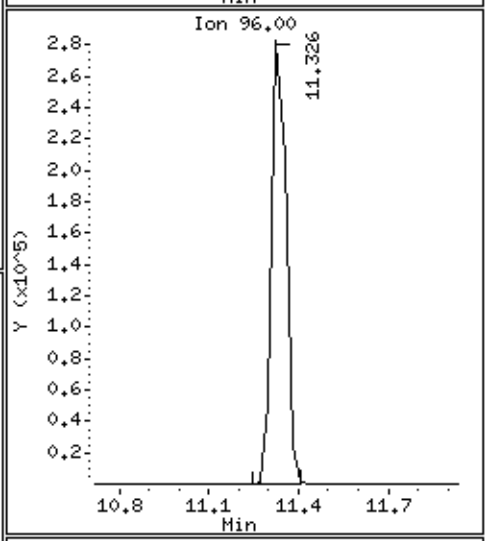


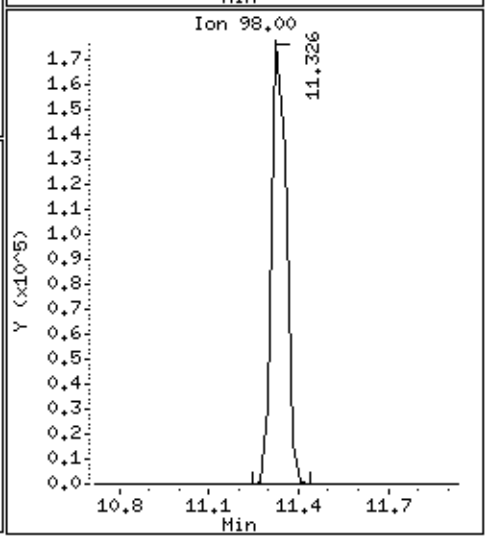












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

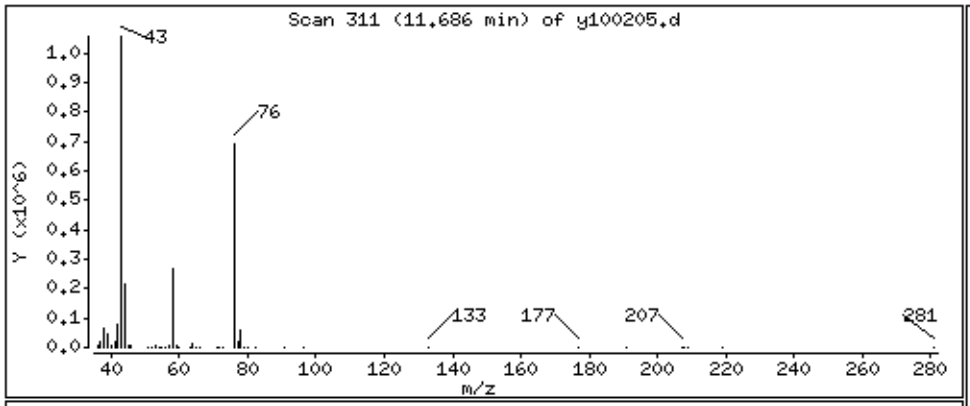
Operator: kr

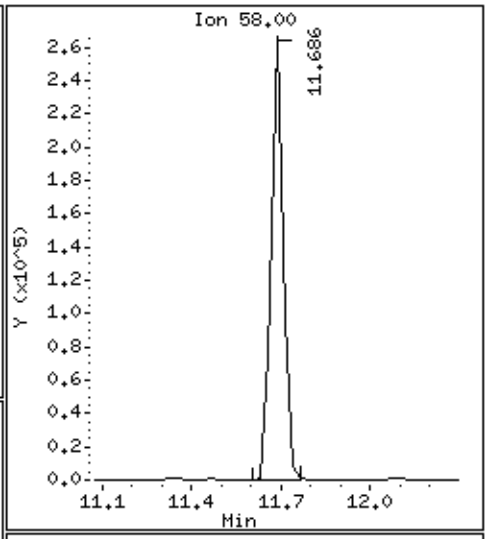
Column phase: RTx-624

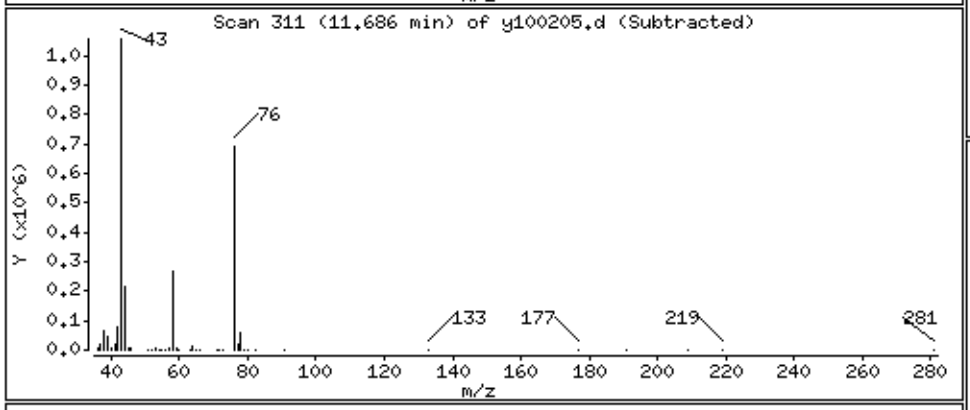
Column diameter: 0.53

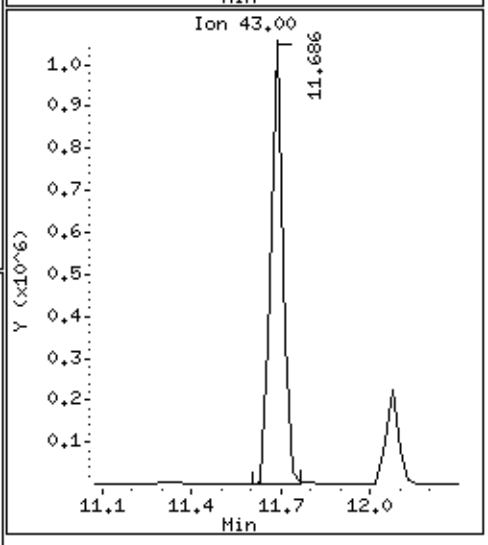
47 Acetone

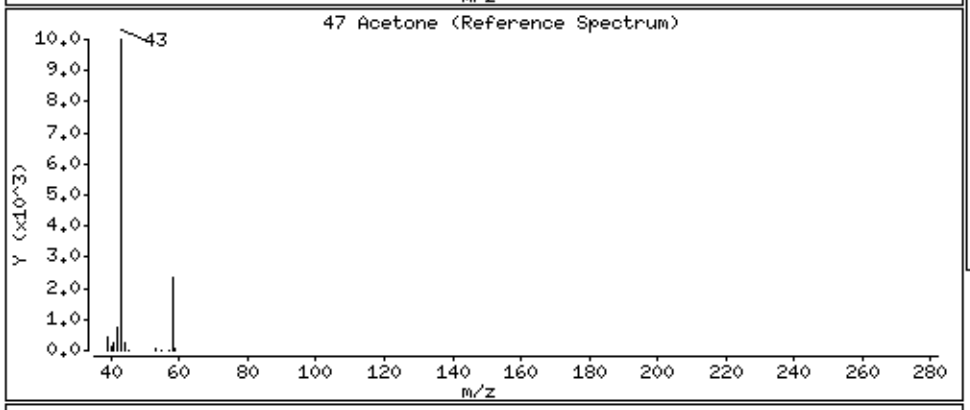
Concentration: 48.556 PPBV

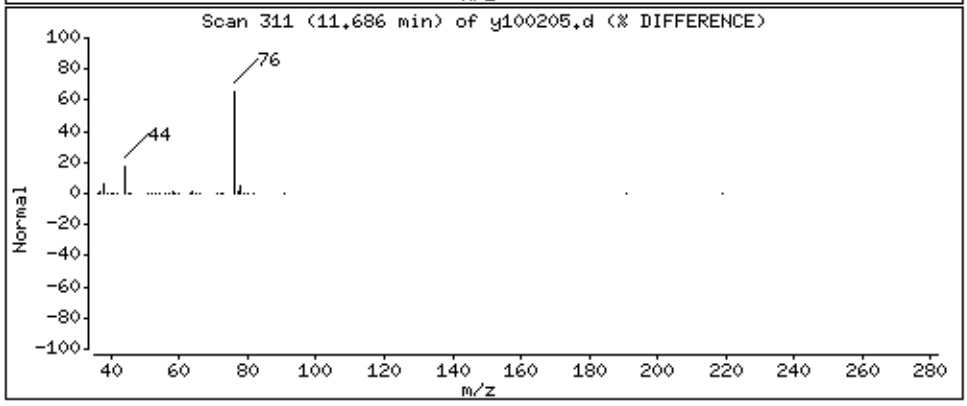












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

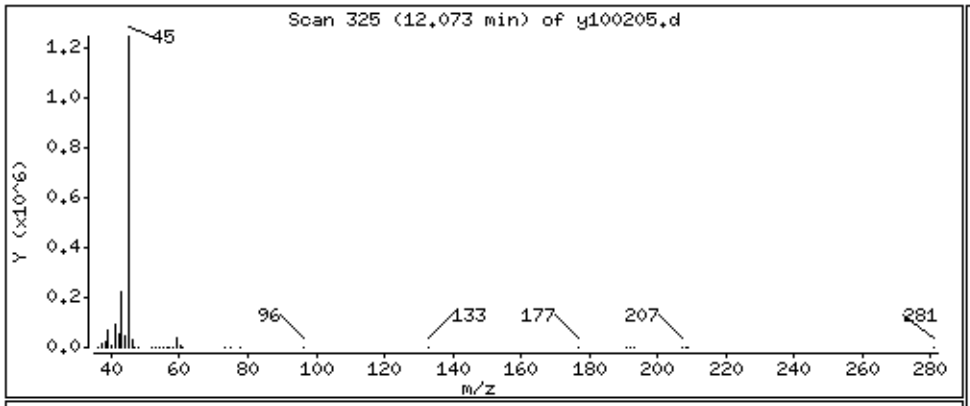
Operator: kr

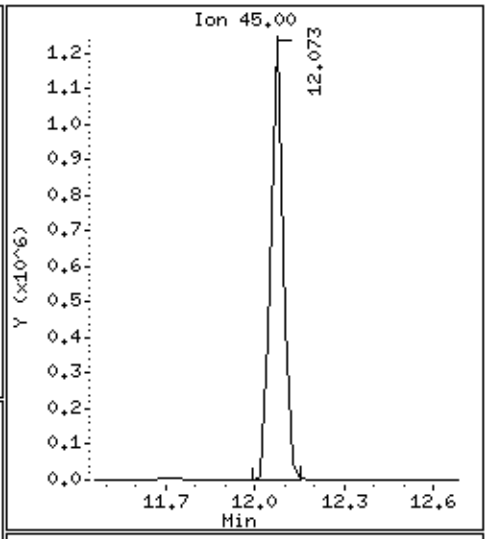
Column phase: RTx-624

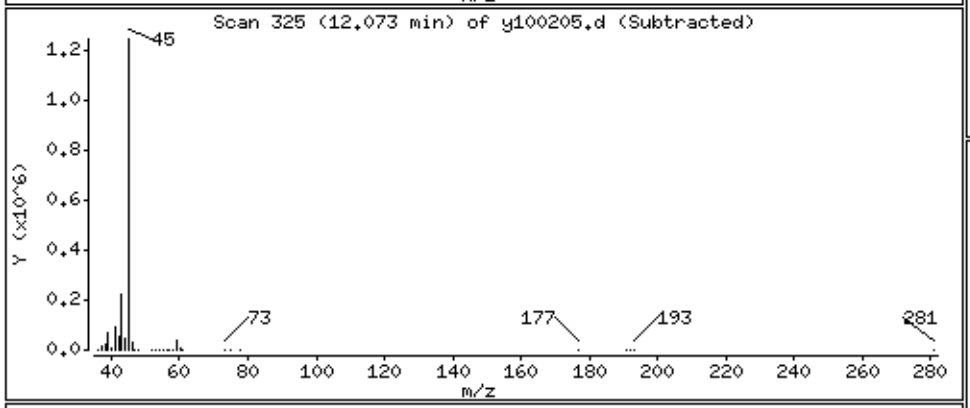
Column diameter: 0.53

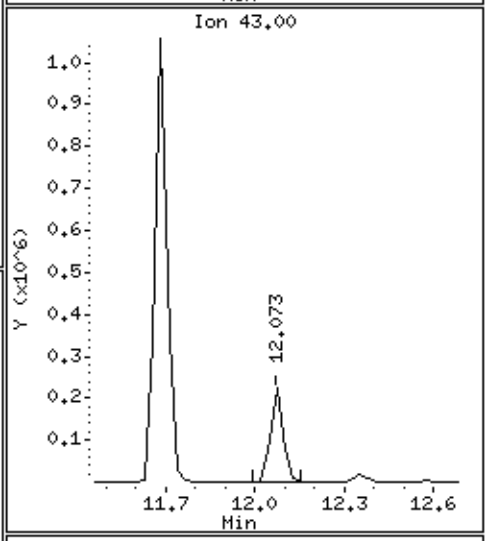
50 2-Propanol

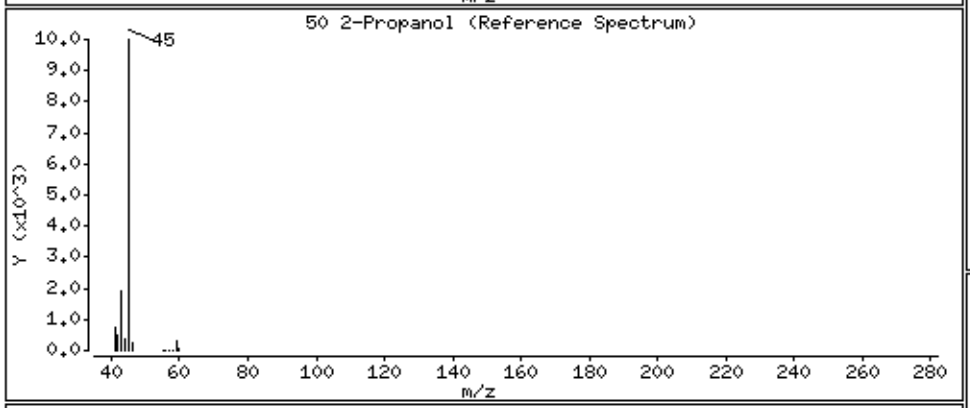
Concentration: 45.273 PPBV

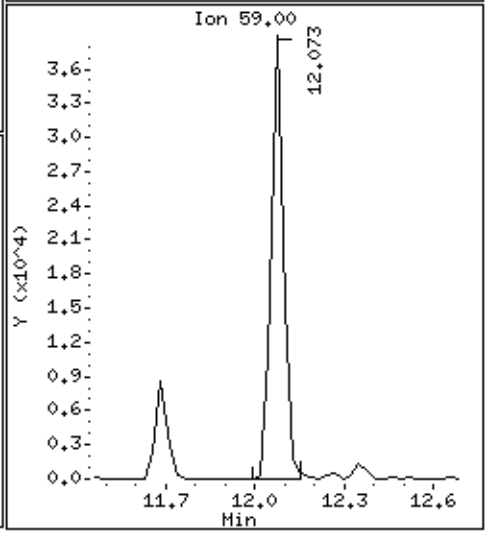


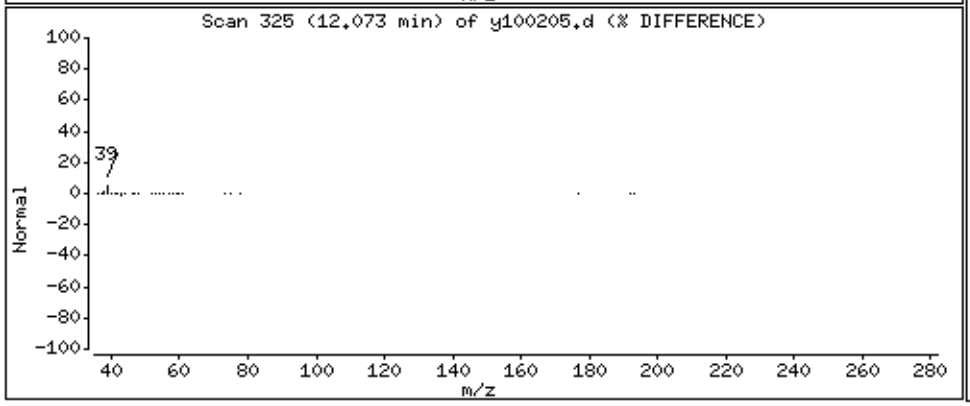












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

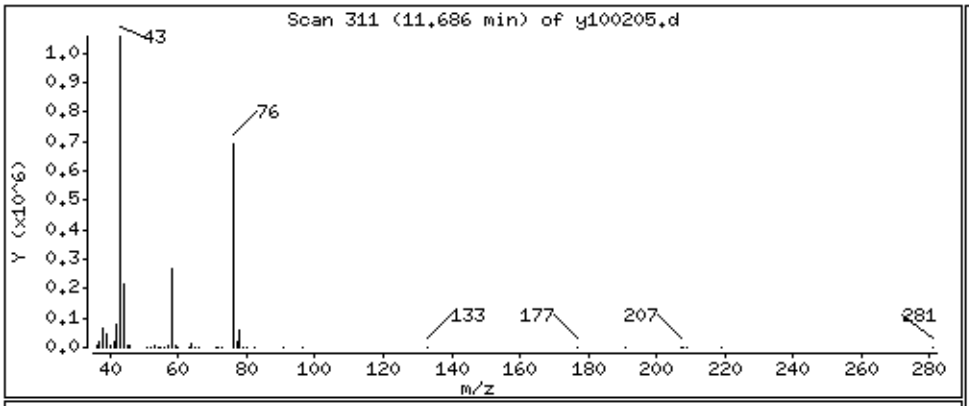
Operator: kr

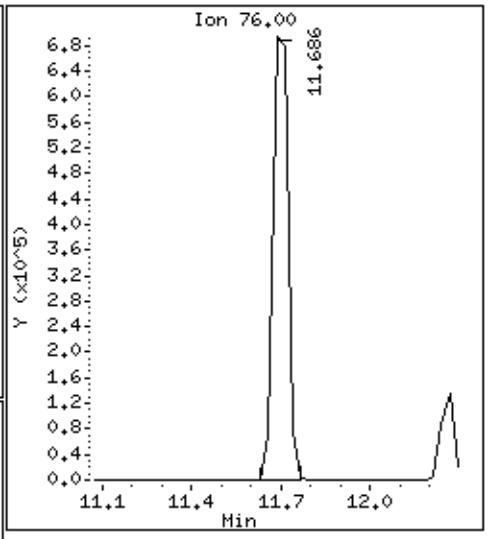
Column phase: RTx-624

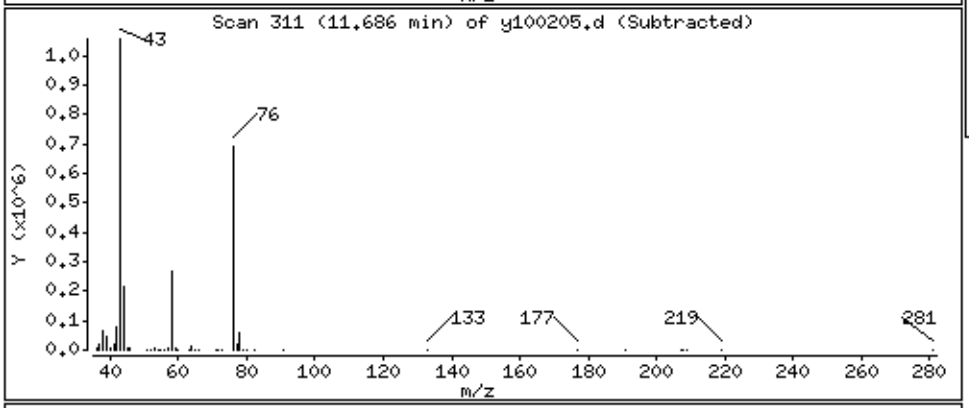
Column diameter: 0.53

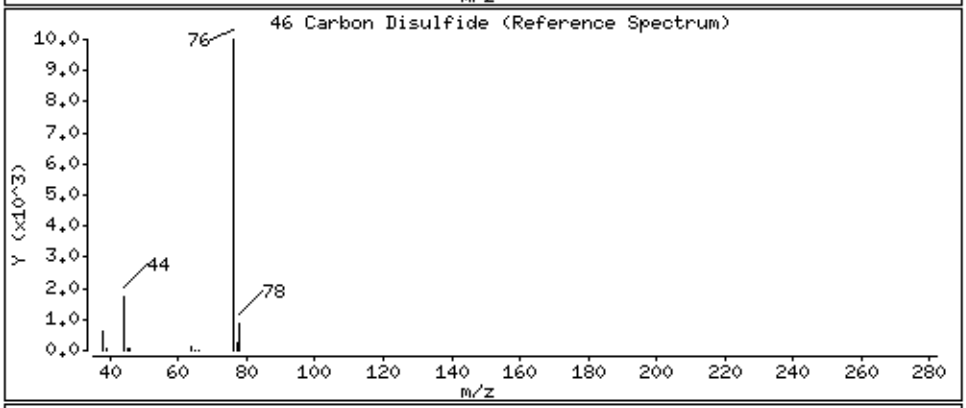
46 Carbon Disulfide

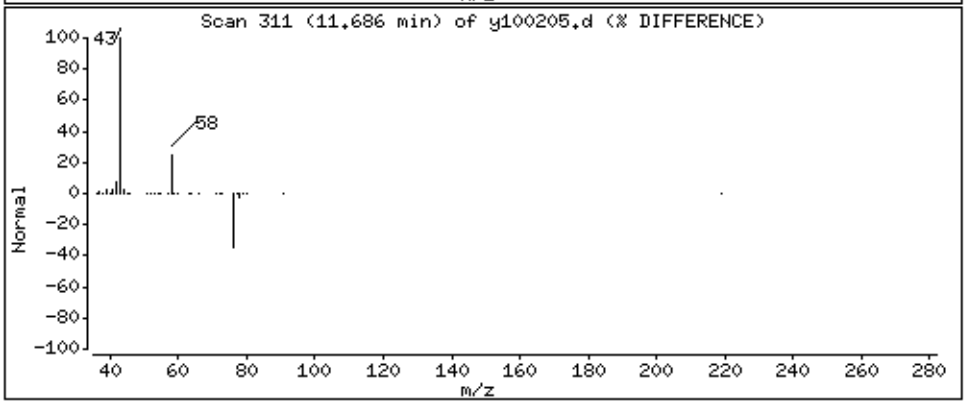
Concentration: 53.608 PPBV











Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

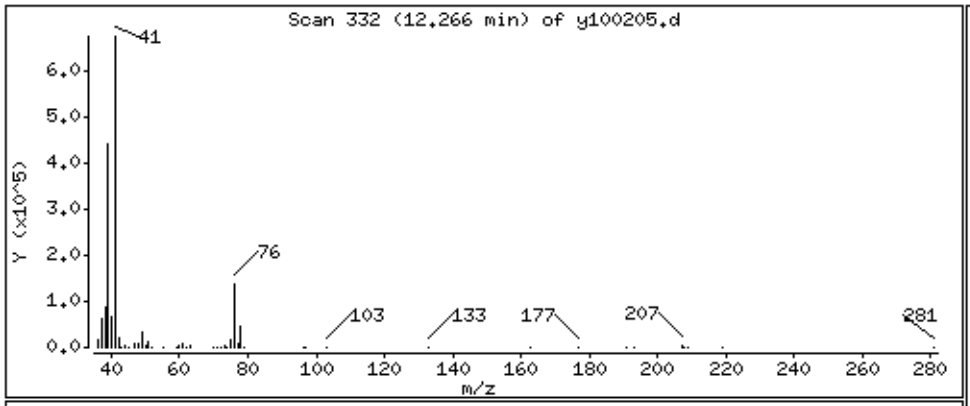
Operator: kr

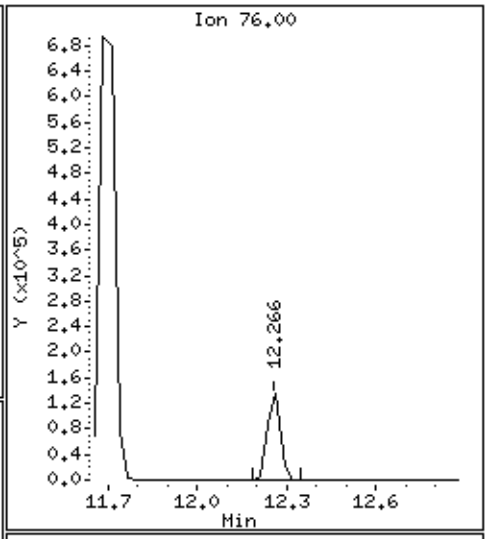
Column phase: RTx-624

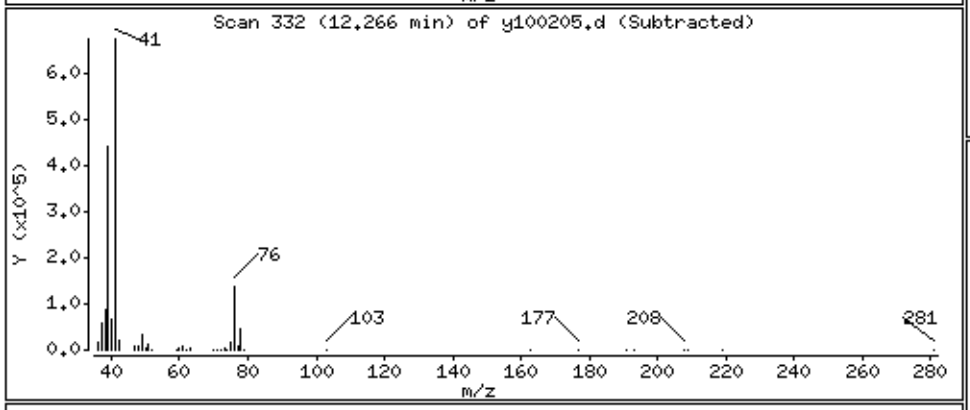
Column diameter: 0.53

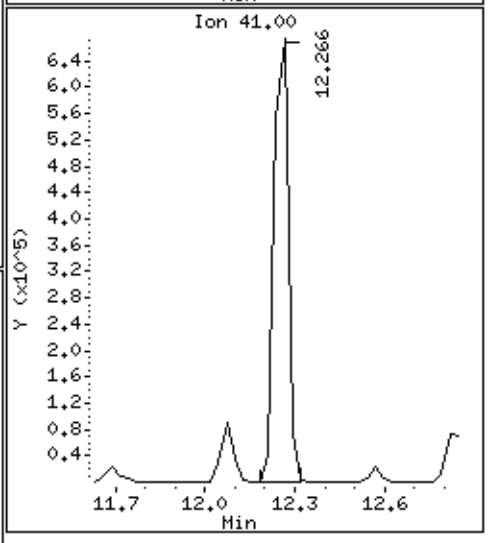
53 3-Chloropropene

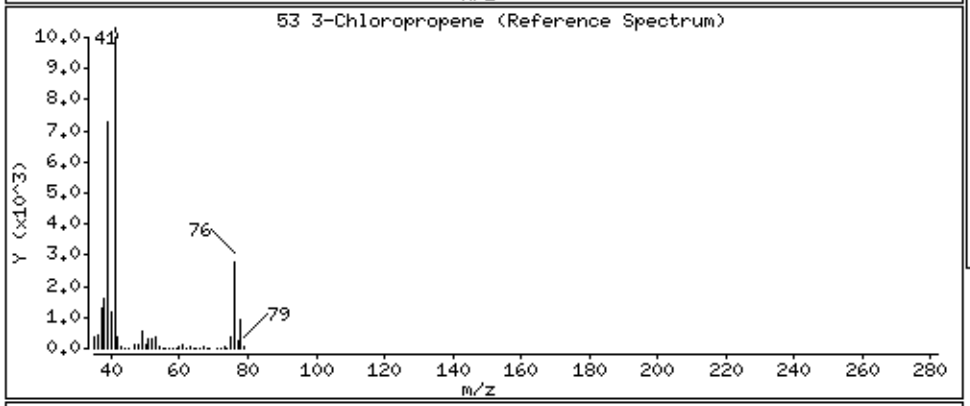
Concentration: 59.485 PPBV

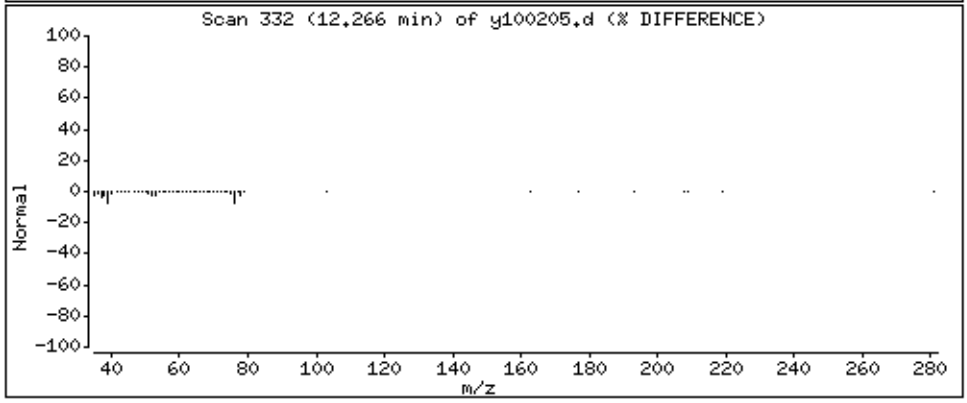












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

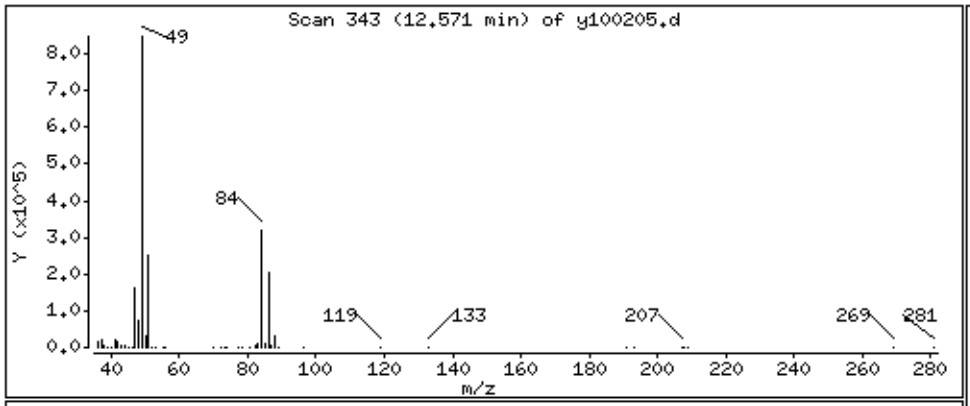
Operator: kr

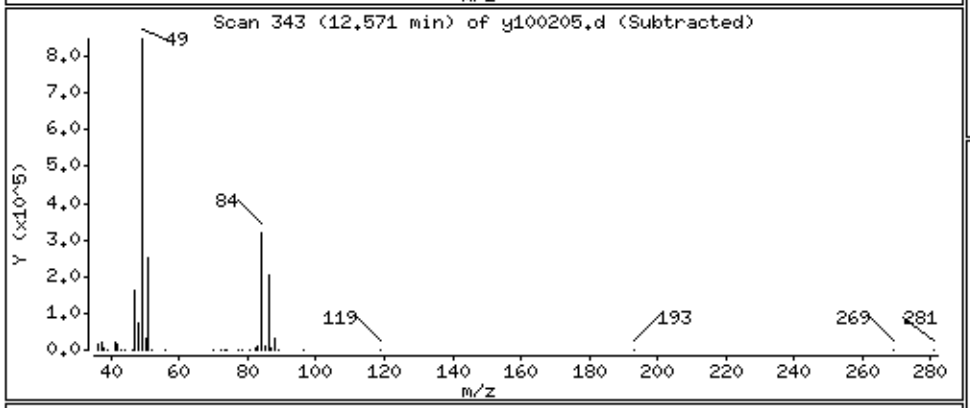
Column phase: RTx-624

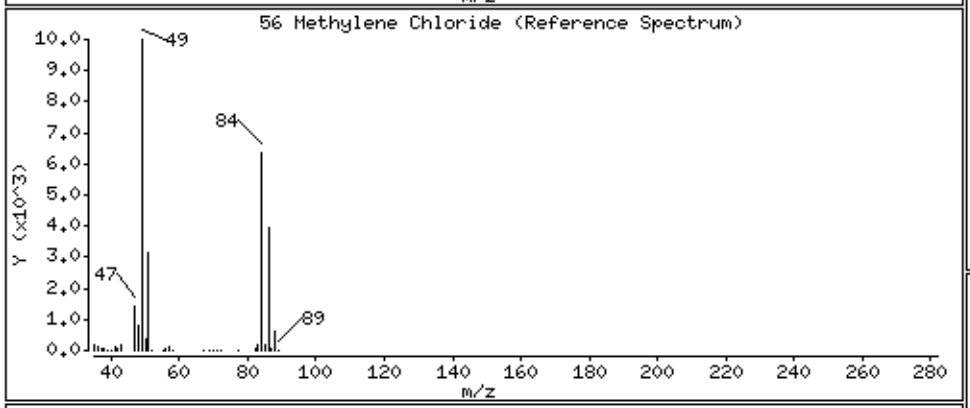
Column diameter: 0.53

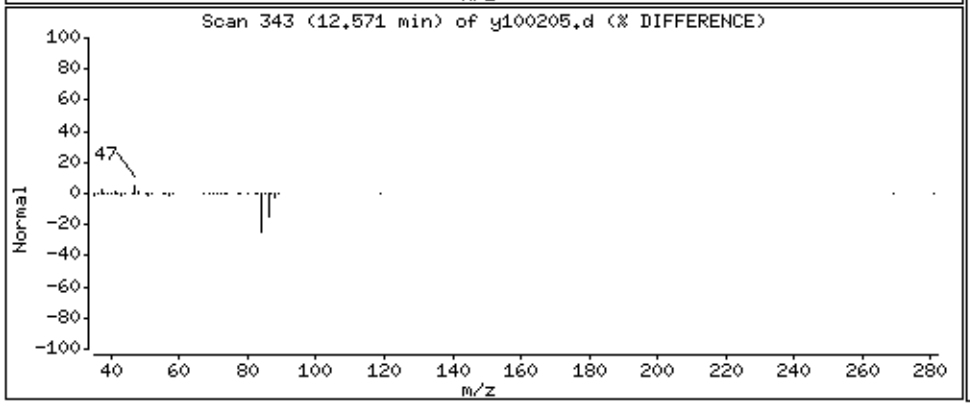
56 Methylene Chloride

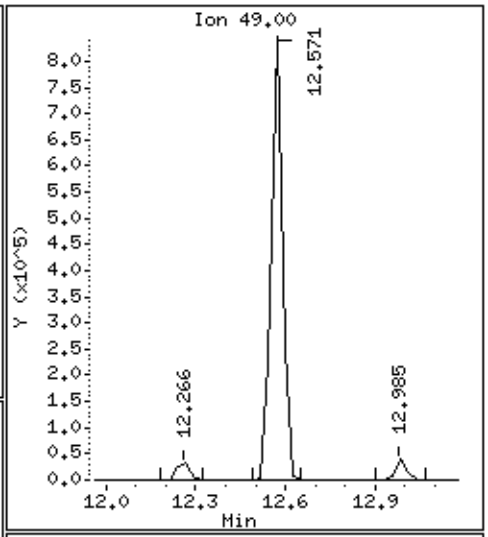
Concentration: 56.936 PPBV

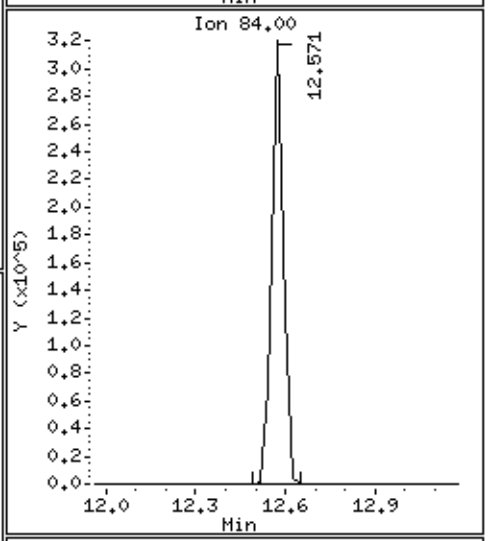


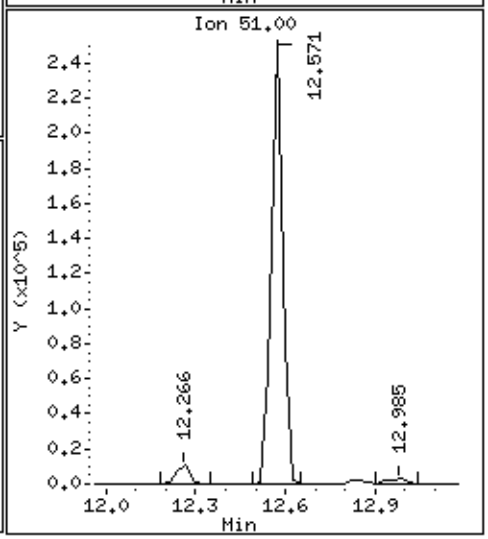












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

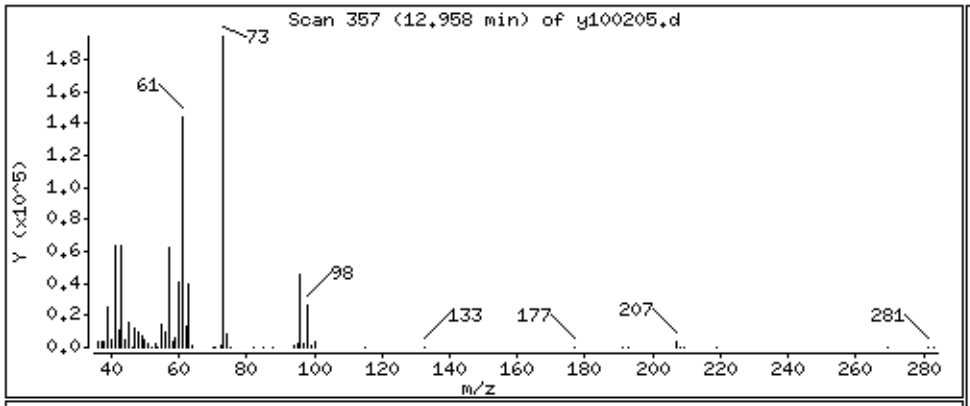
Operator: kr

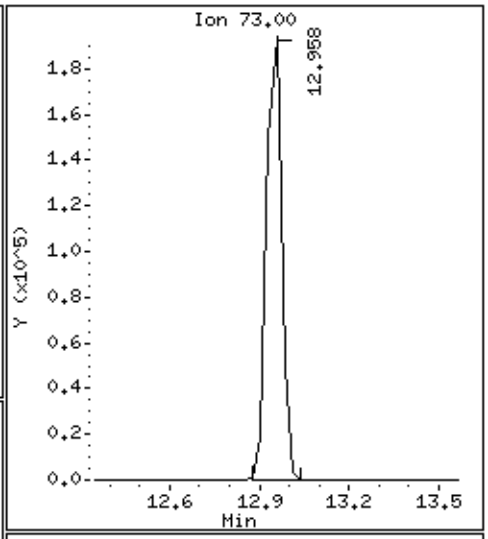
Column phase: RTx-624

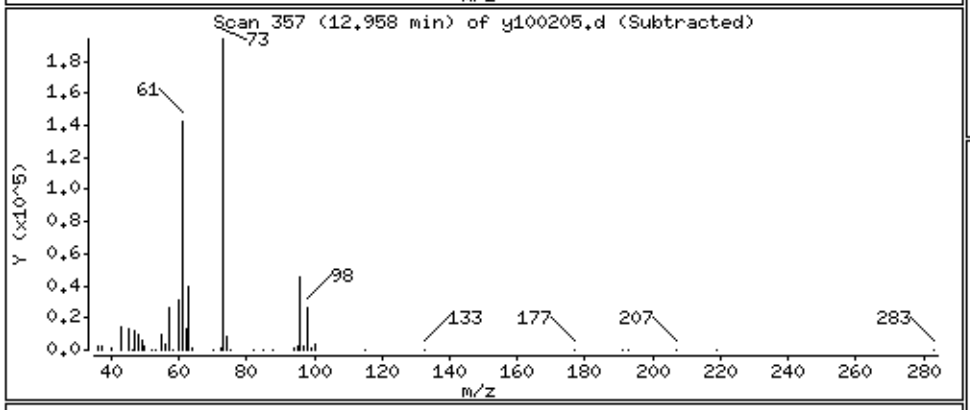
Column diameter: 0.53

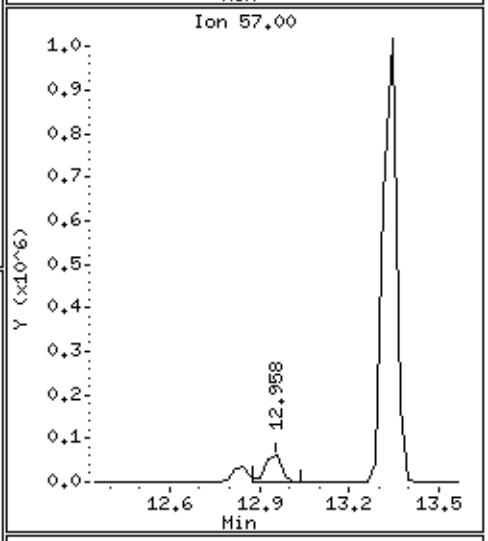
60 MTBE

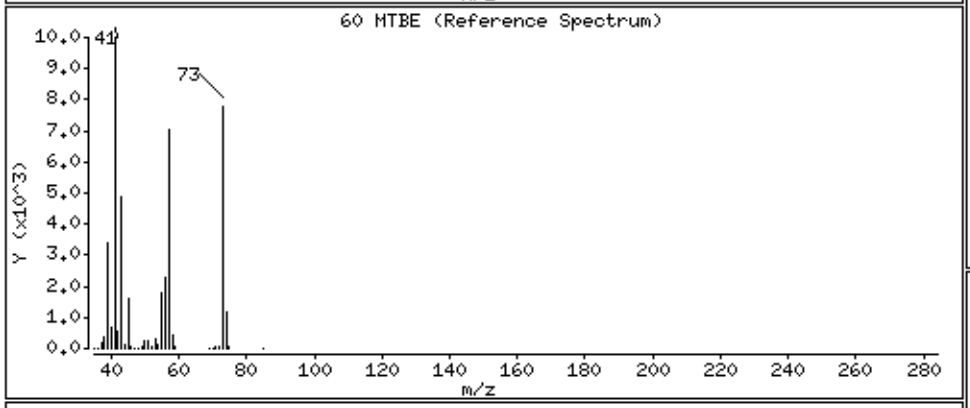
Concentration: 59.517 PPBV

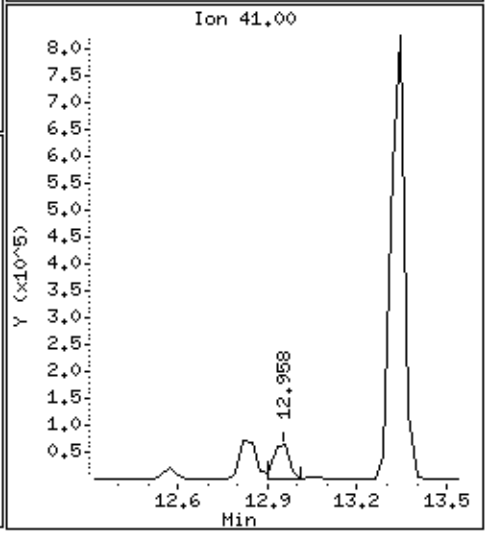


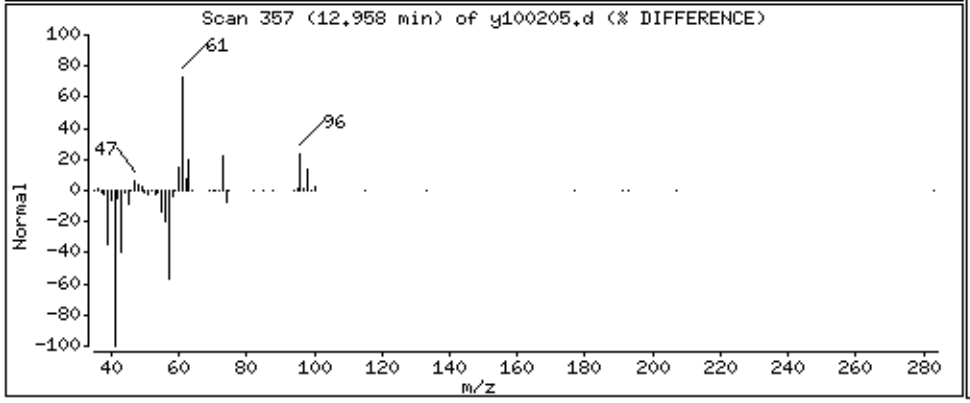












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

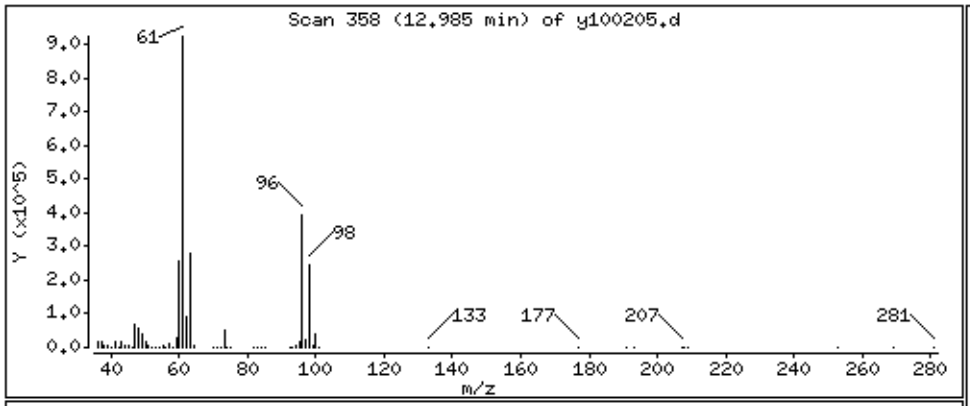
Operator: kr

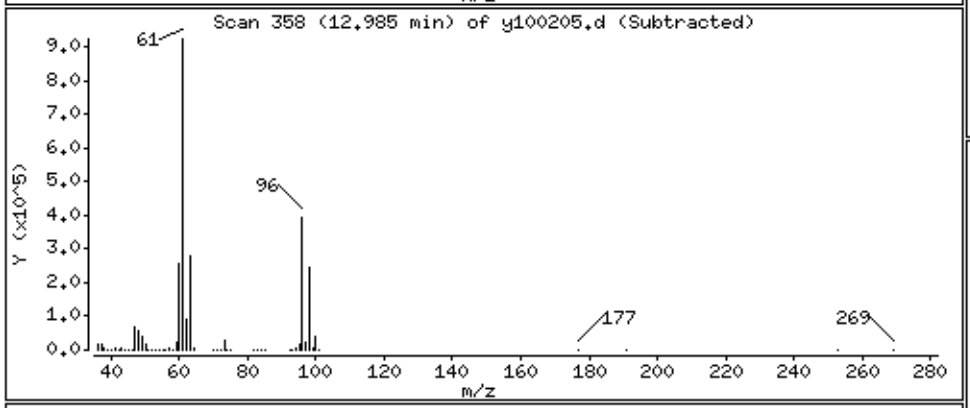
Column phase: RTx-624

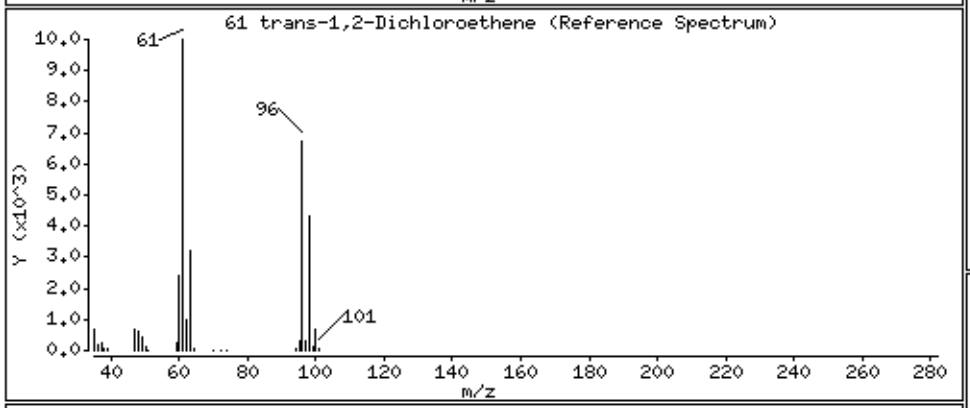
Column diameter: 0.53

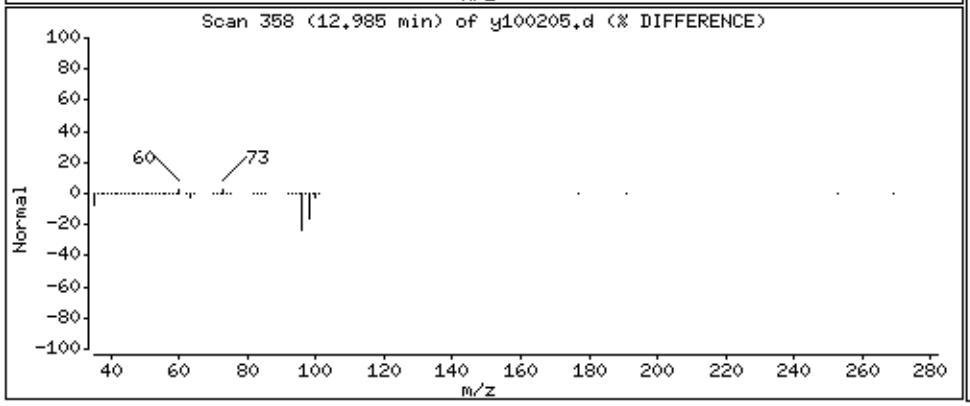
61 trans-1,2-Dichloroethene

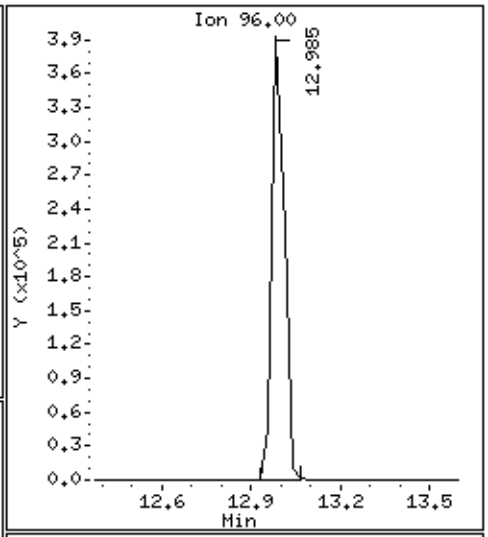
Concentration: 52.306 PPBV

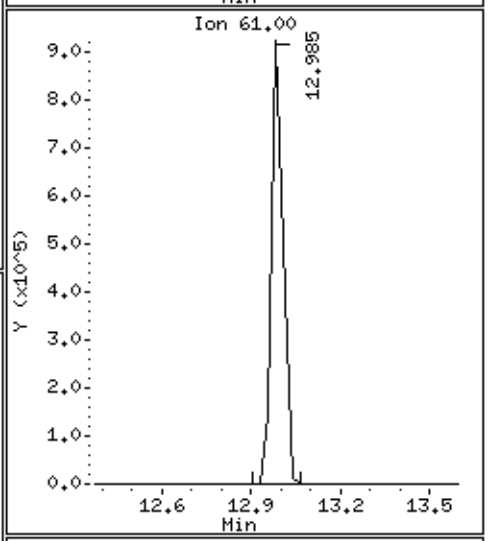


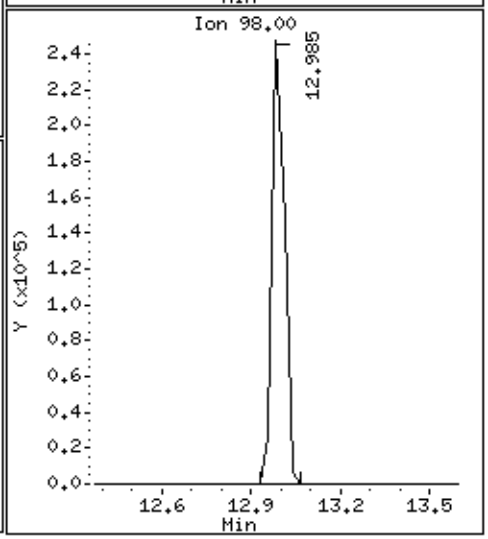












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

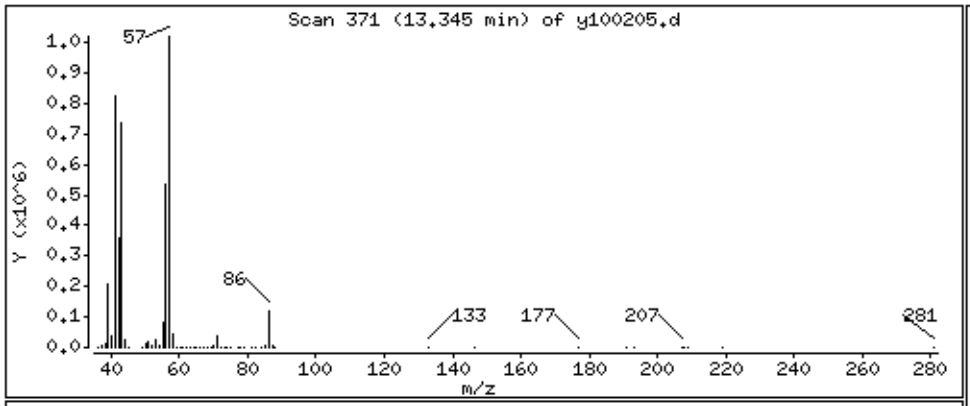
Operator: kr

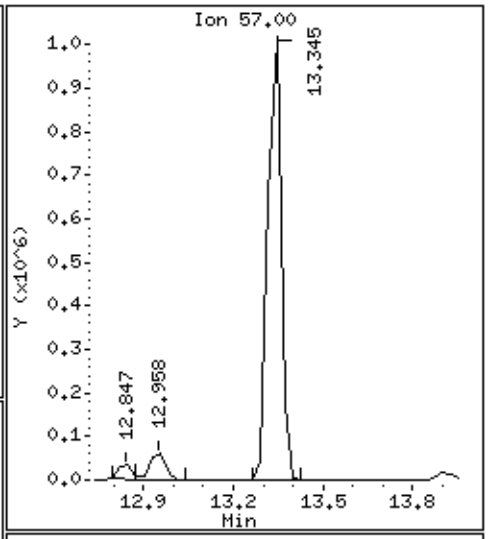
Column phase: RTx-624

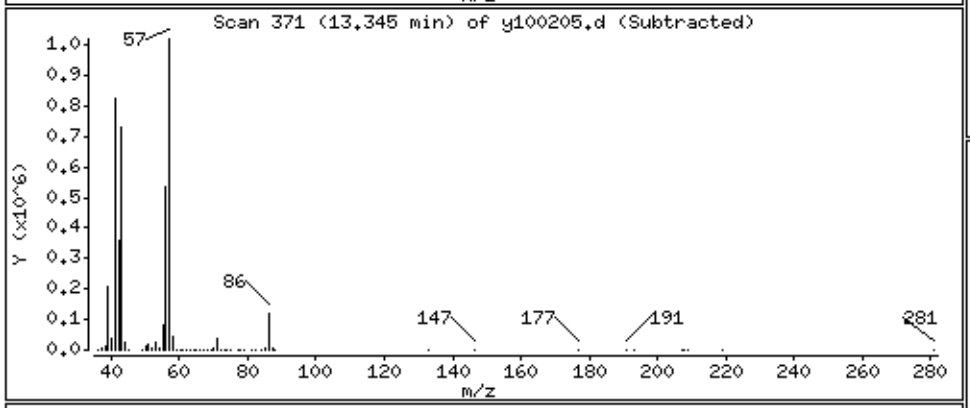
Column diameter: 0.53

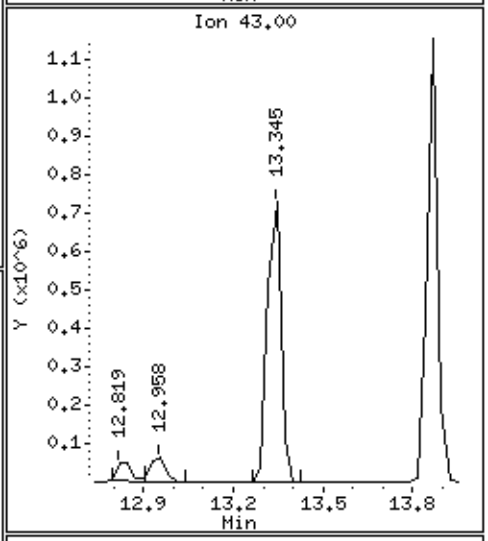
65 Hexane

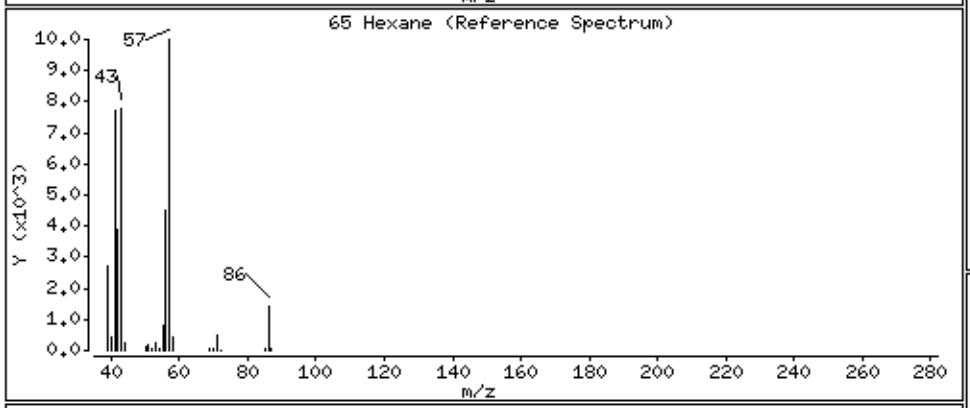
Concentration: 52.112 PPBV

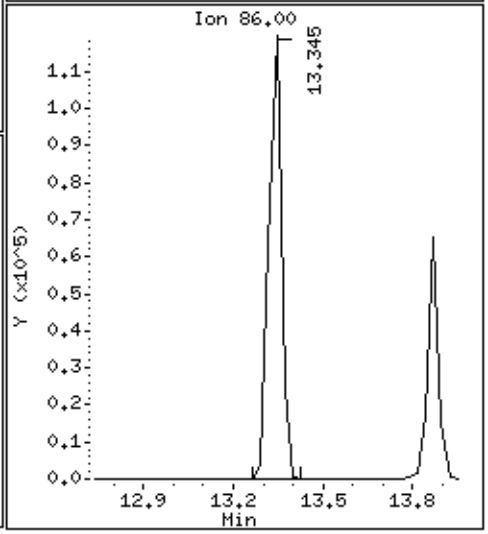


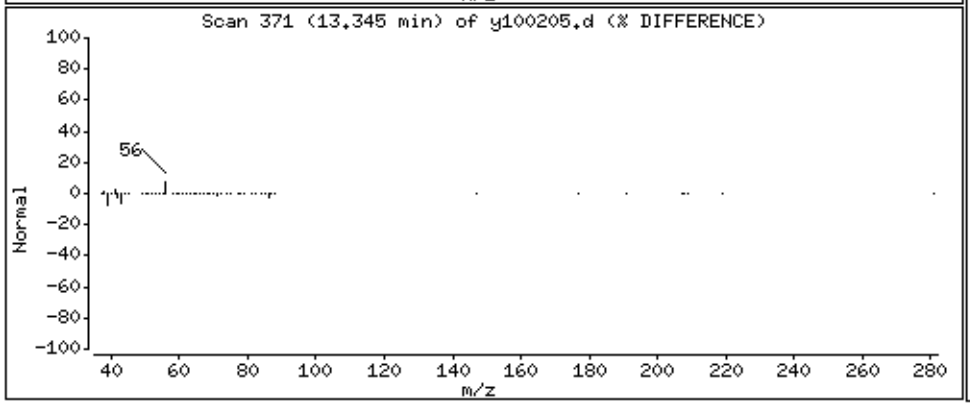












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

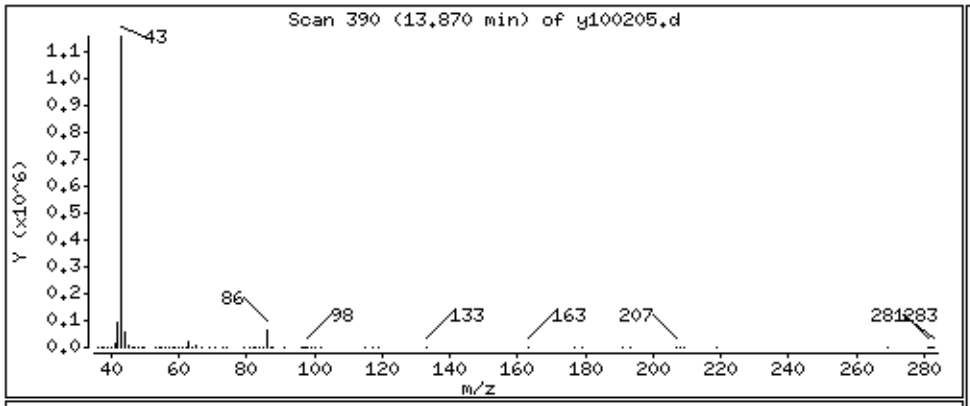
Sample Info: 50mL #1612-164

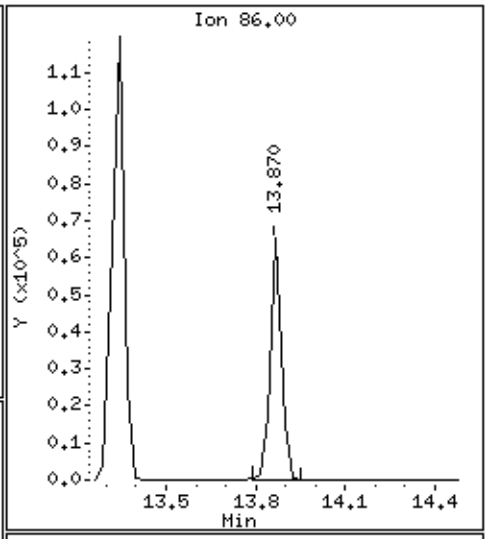
Operator: kr

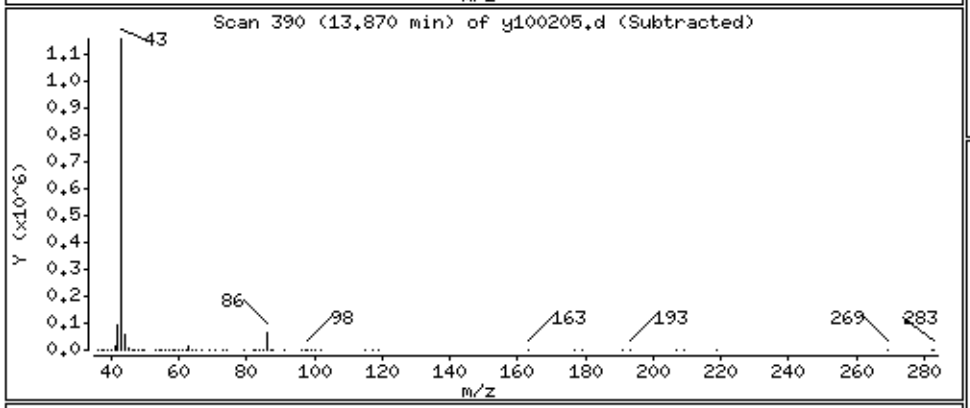
Column phase: RTx-624

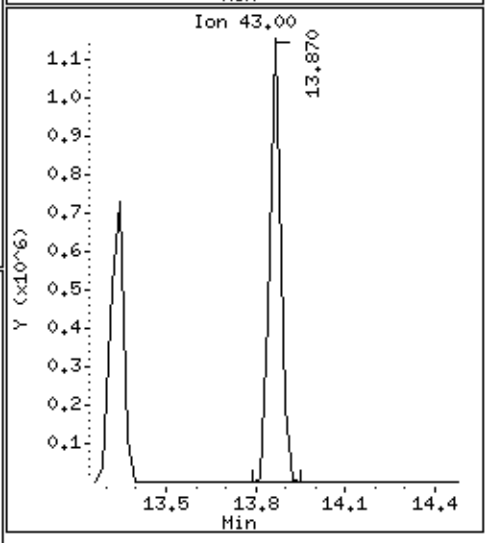
Column diameter: 0.53

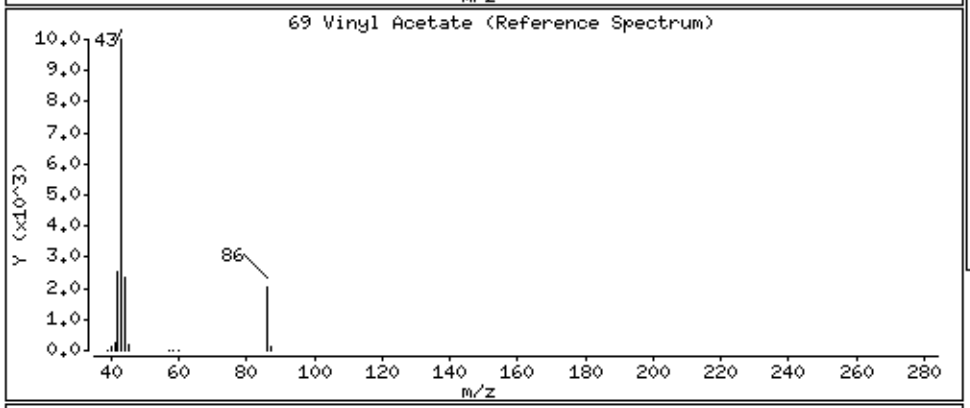
69 Vinyl Acetate

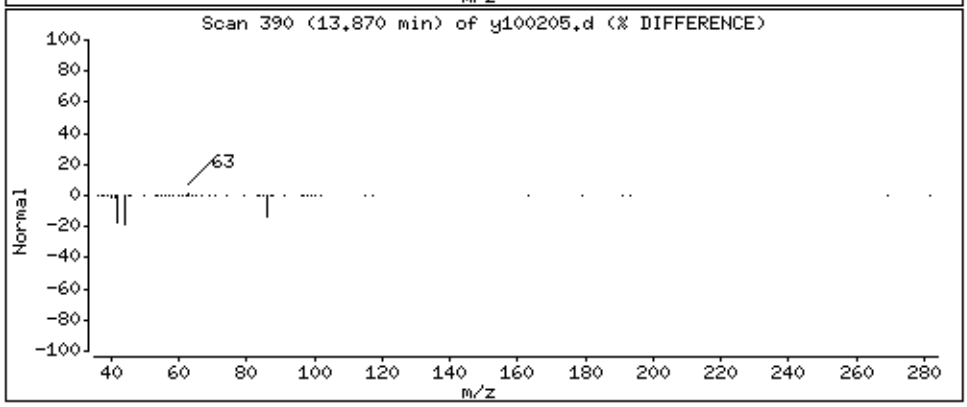












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

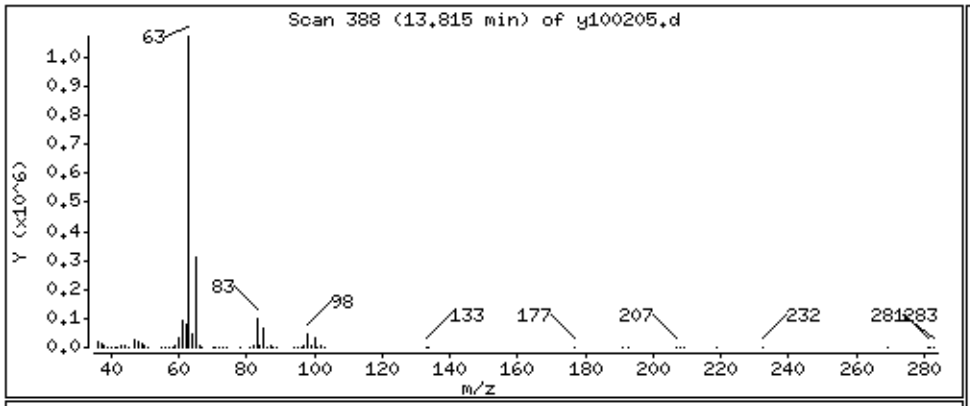
Operator: kr

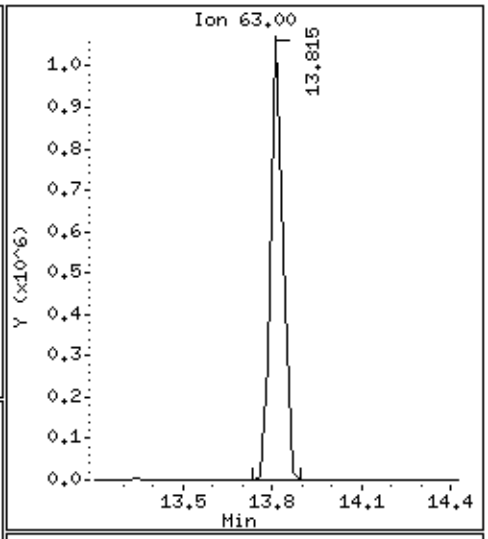
Column phase: RTx-624

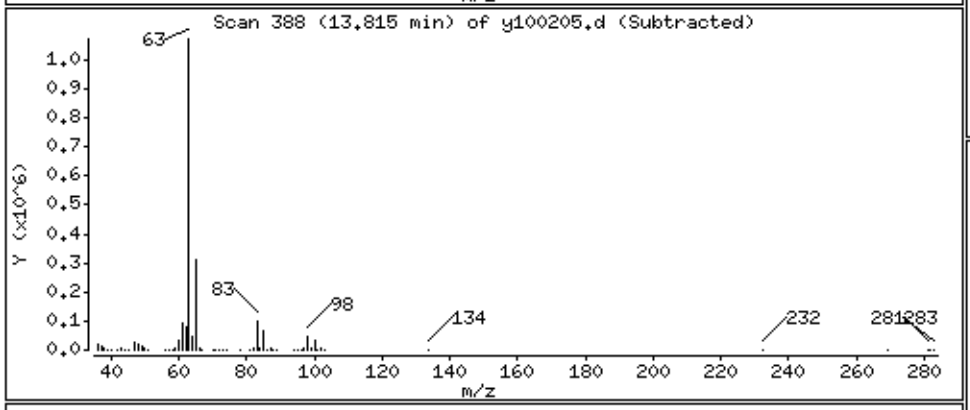
Column diameter: 0.53

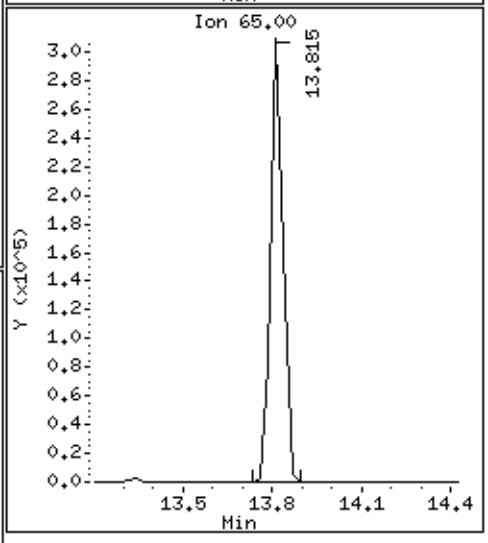
67 1,1-Dichloroethane

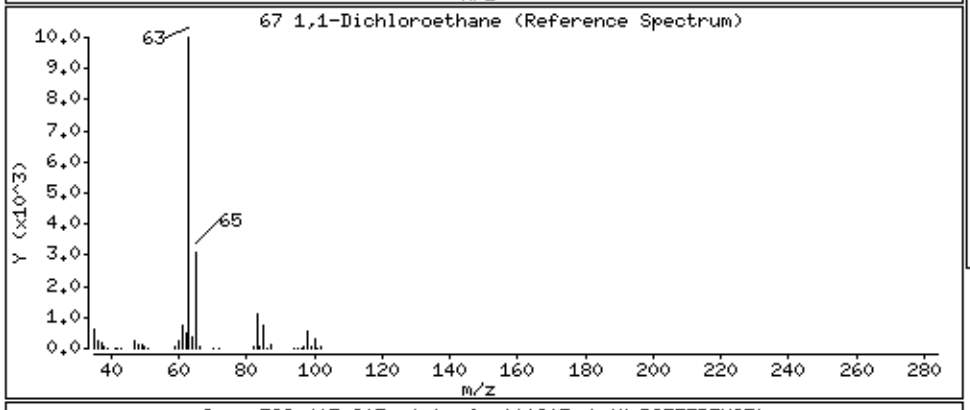
Concentration: 60.797 PPBV

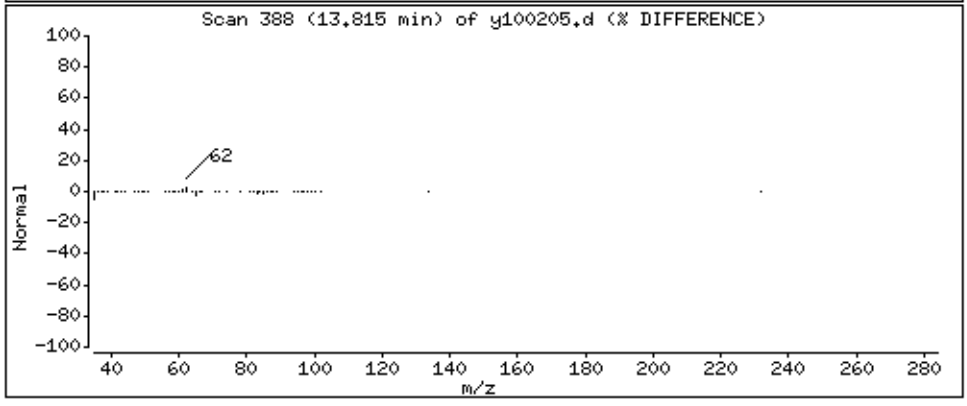












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

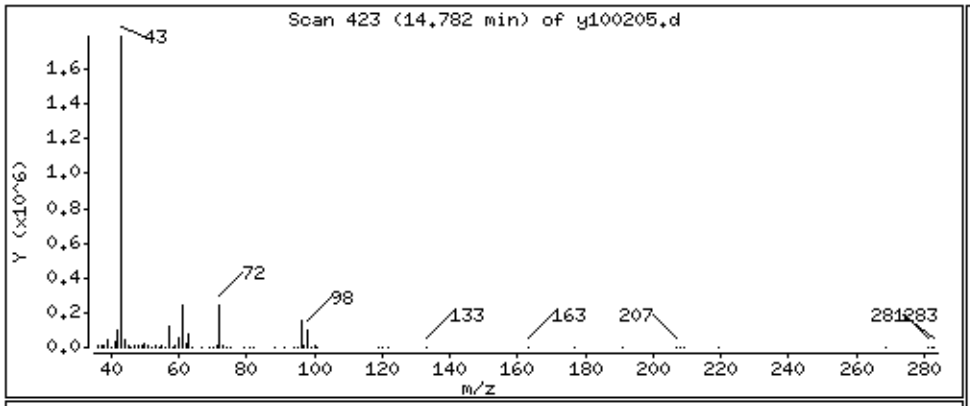
Operator: kr

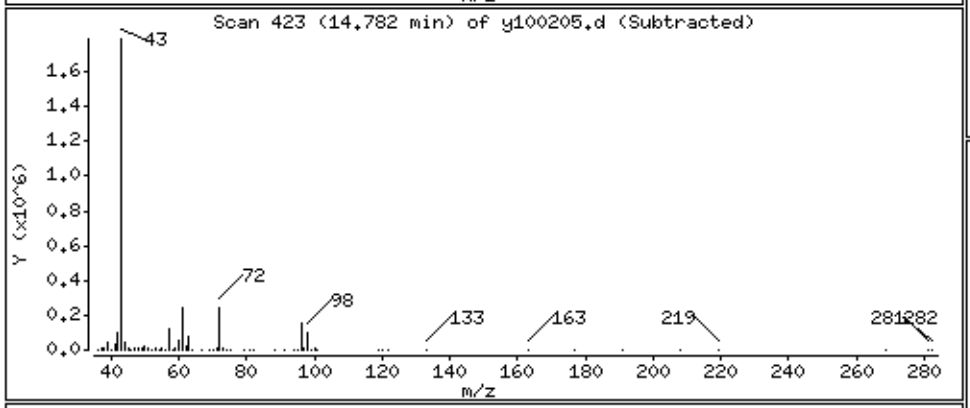
Column phase: RTx-624

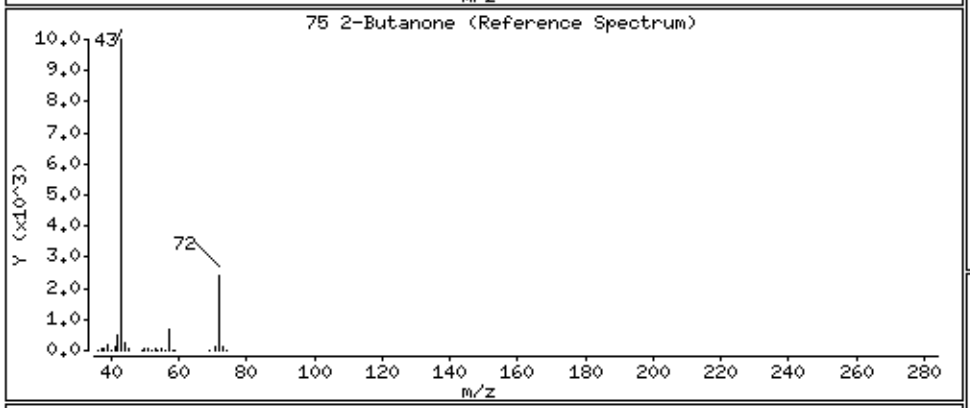
Column diameter: 0.53

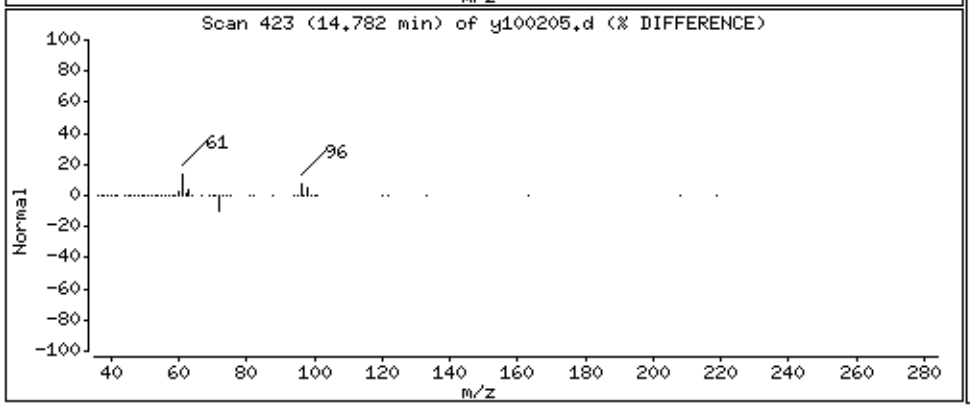
75 2-Butanone

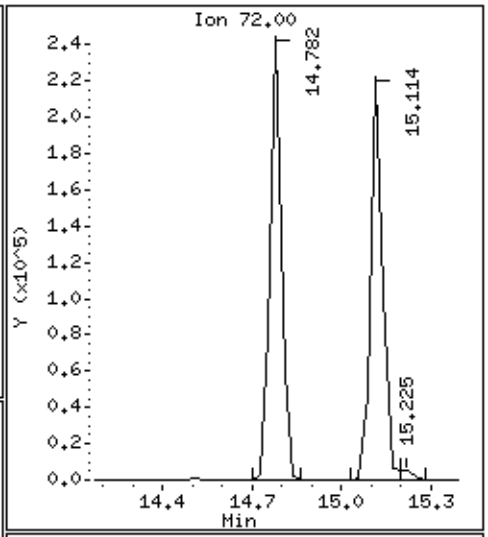
Concentration: 52.022 PPBV

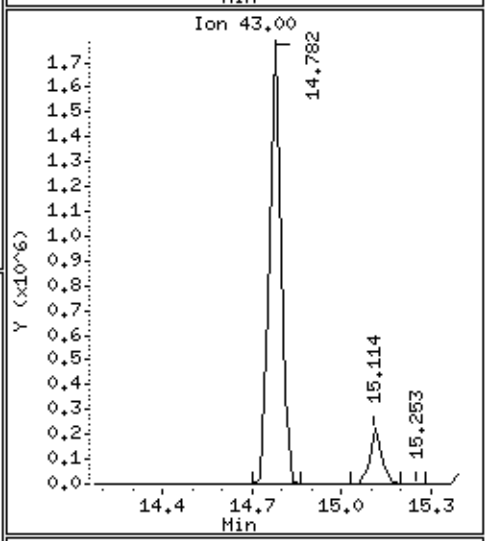


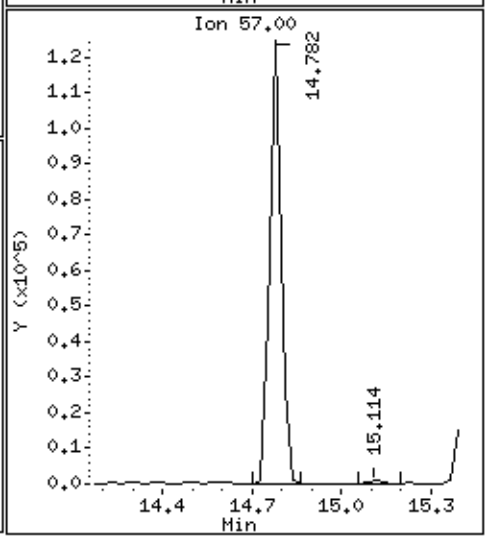












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

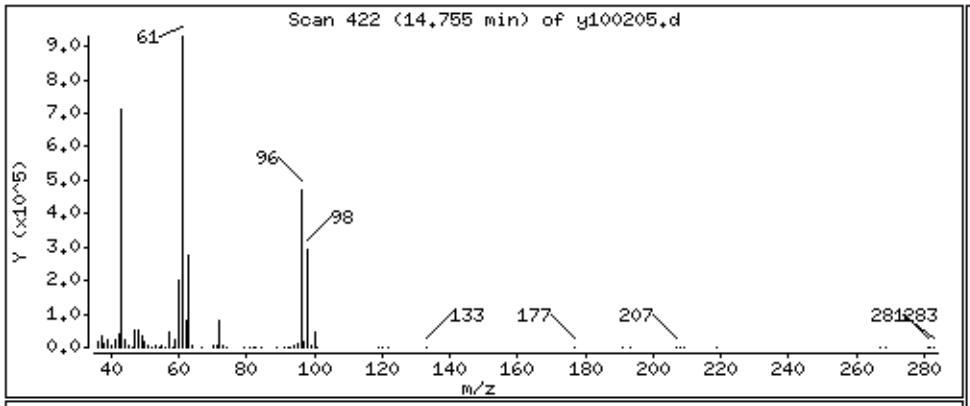
Operator: kr

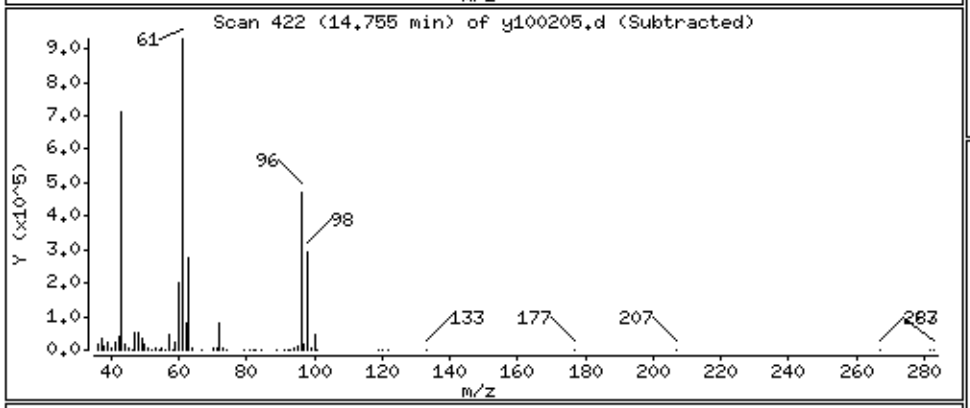
Column phase: RTx-624

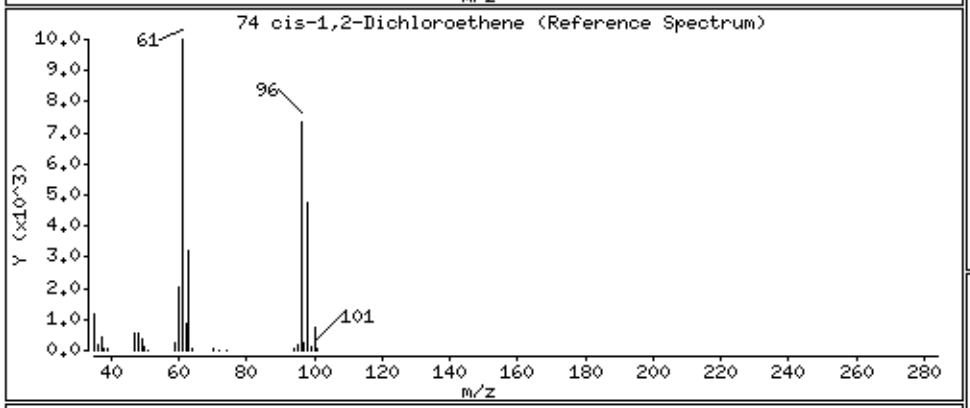
Column diameter: 0.53

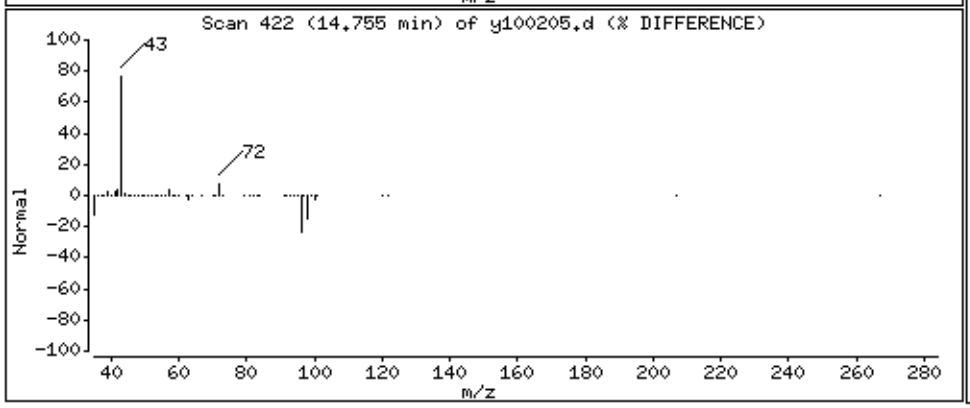
74 cis-1,2-Dichloroethene

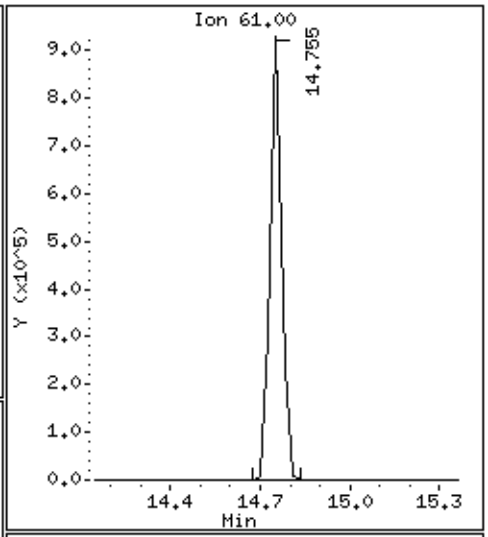
Concentration: 54.359 PPBV

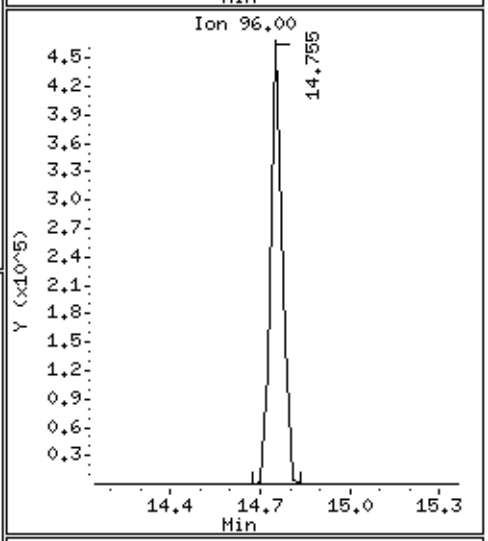


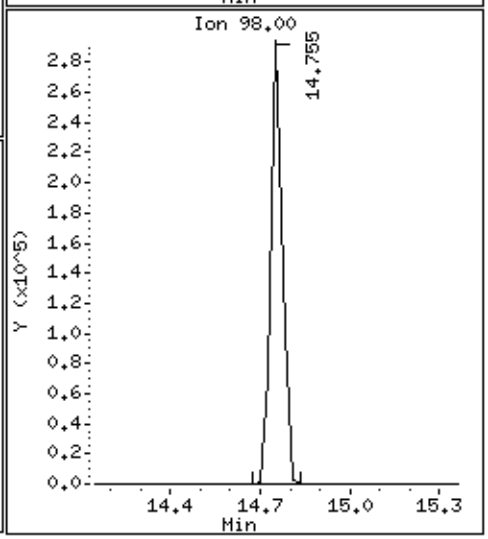












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

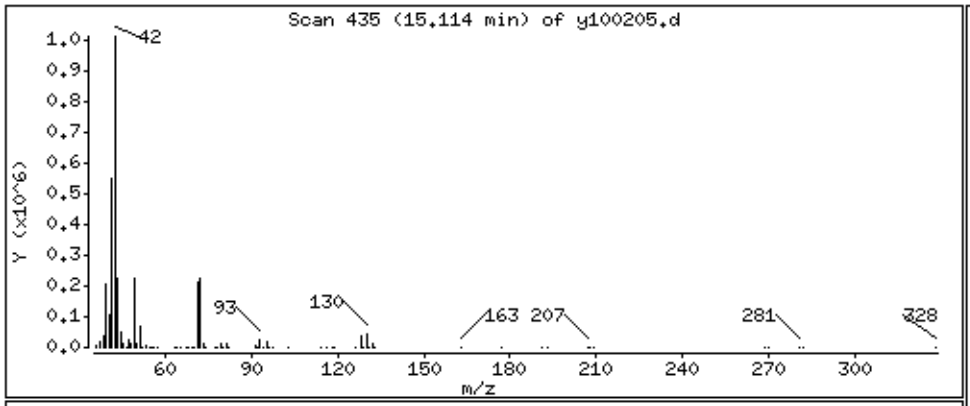
Operator: kr

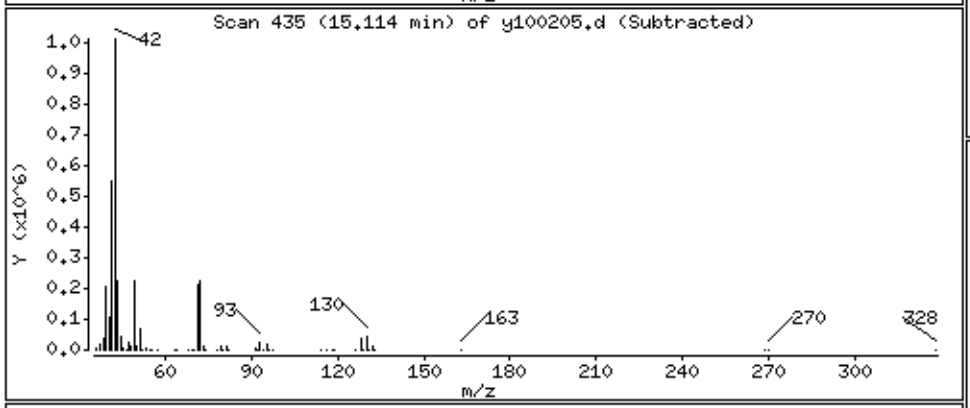
Column phase: RTx-624

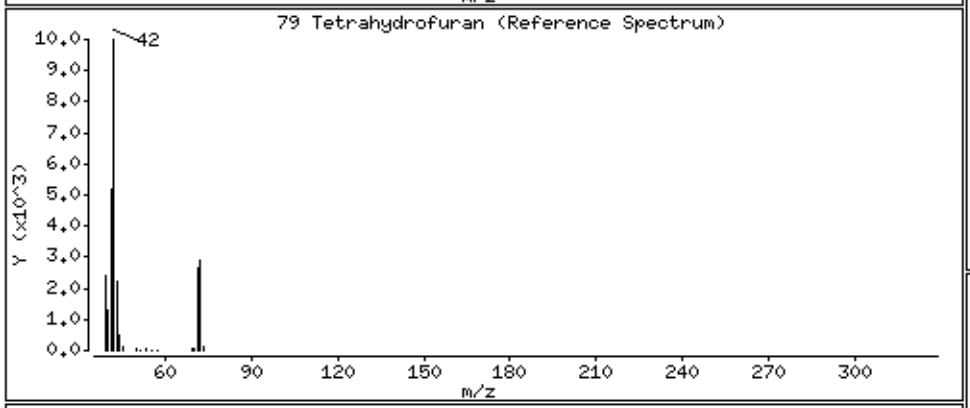
Column diameter: 0.53

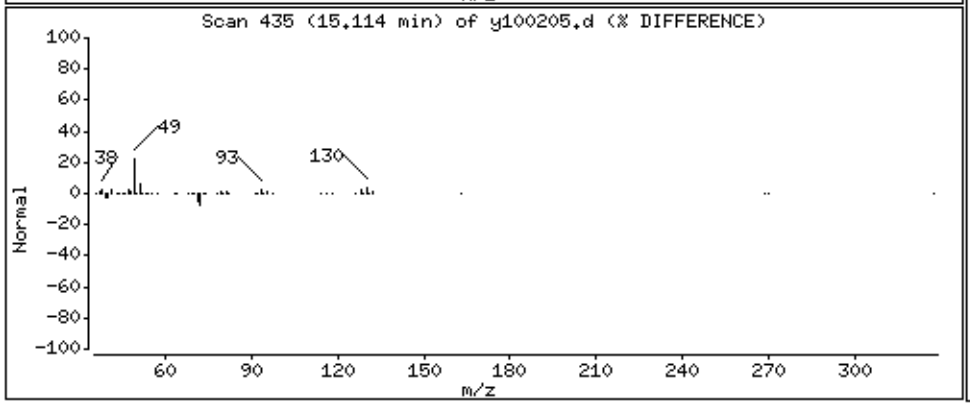
79 Tetrahydrofuran

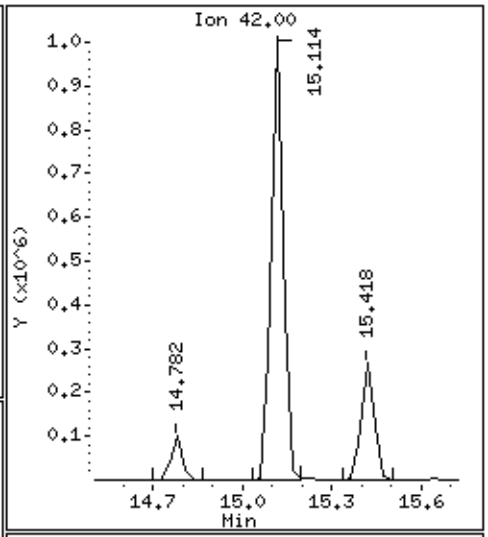
Concentration: 52.182 PPBV

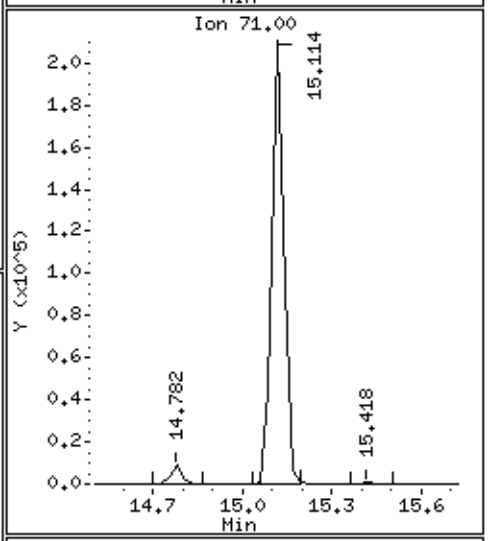


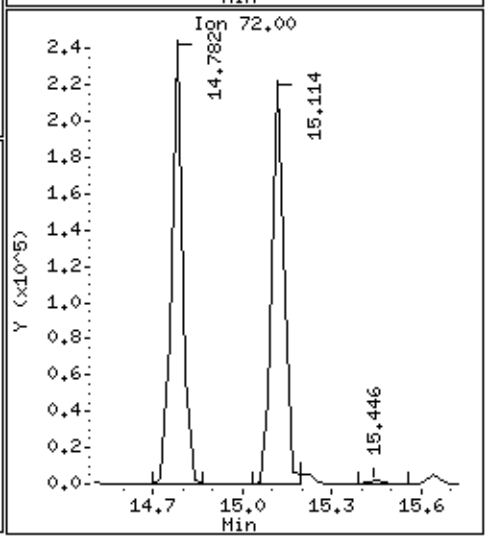












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

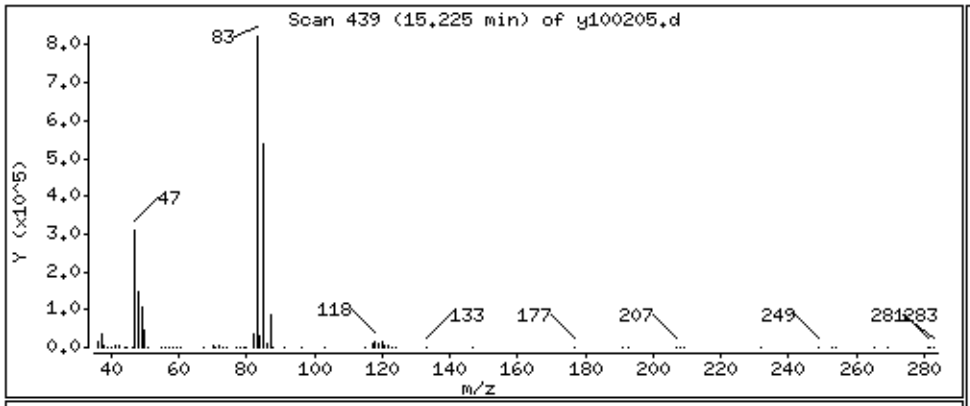
Client ID: LCS-1 Instrument: msdy.i

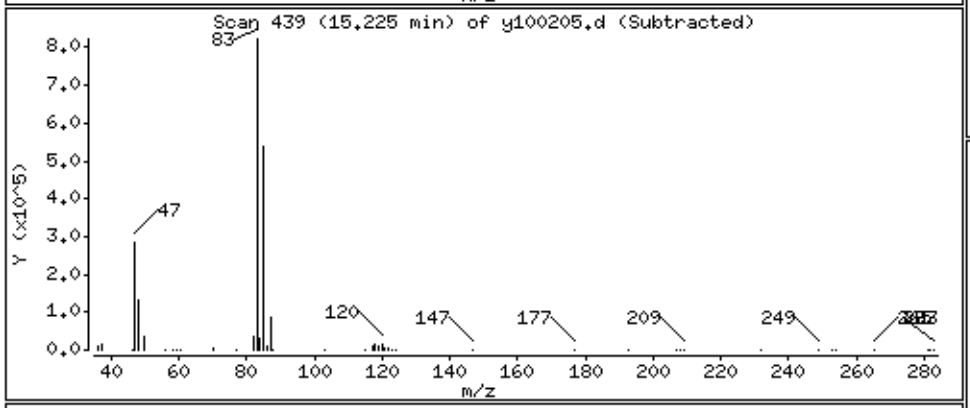
Sample Info: 50mL #1612-164

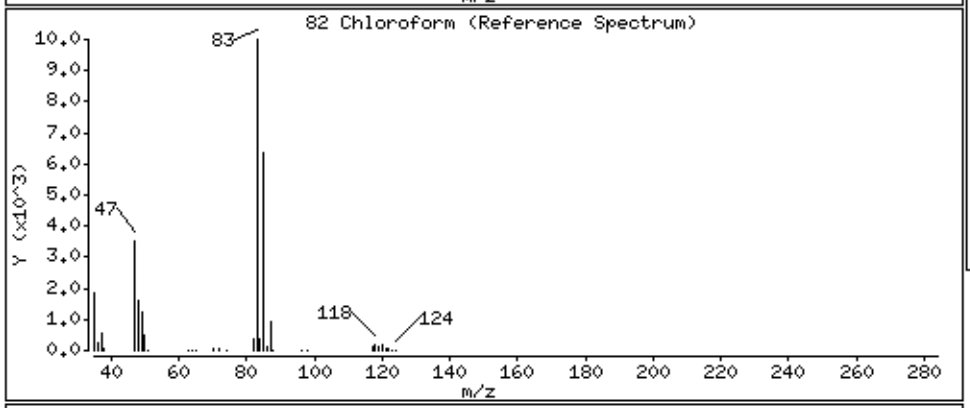
Operator: kr

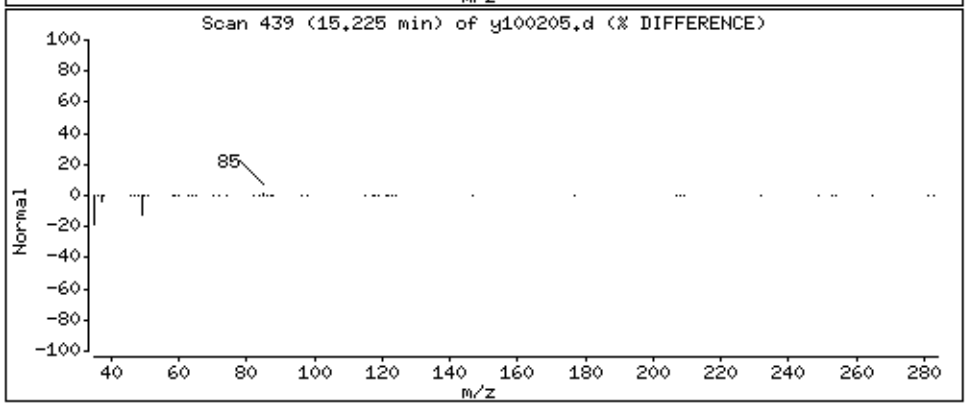
Column phase: RTx-624 Column diameter: 0.53

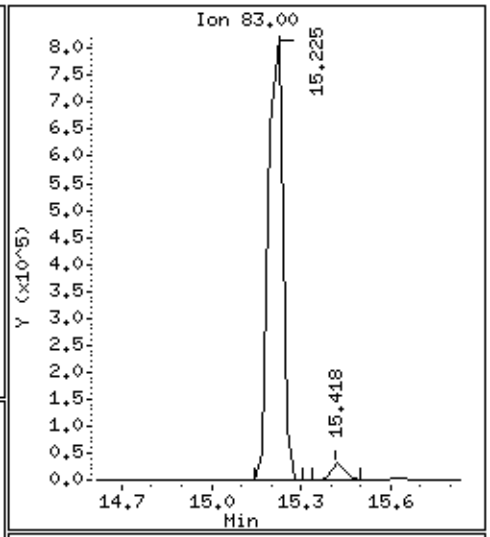
82 Chloroform Concentration: 55.926 PPBV

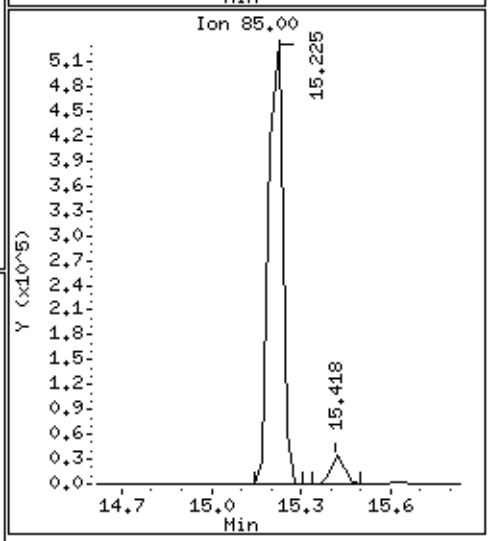












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

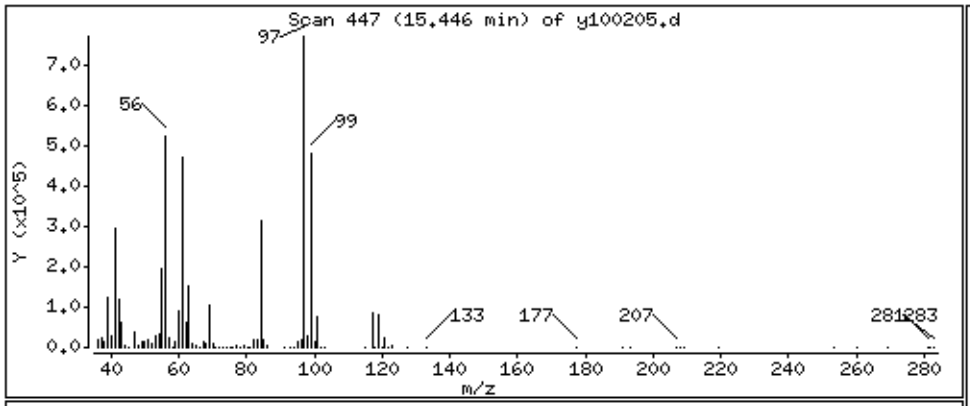
Operator: kr

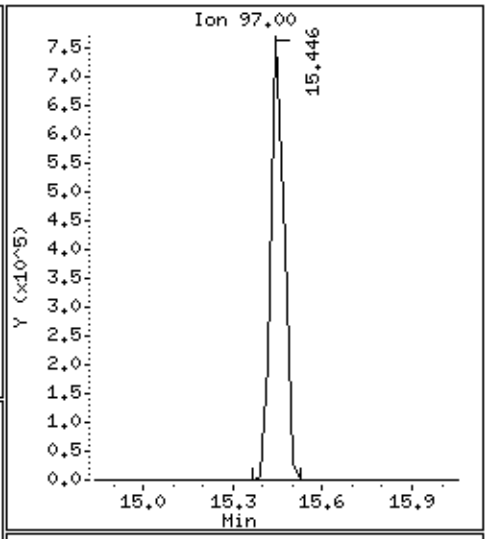
Column phase: RTx-624

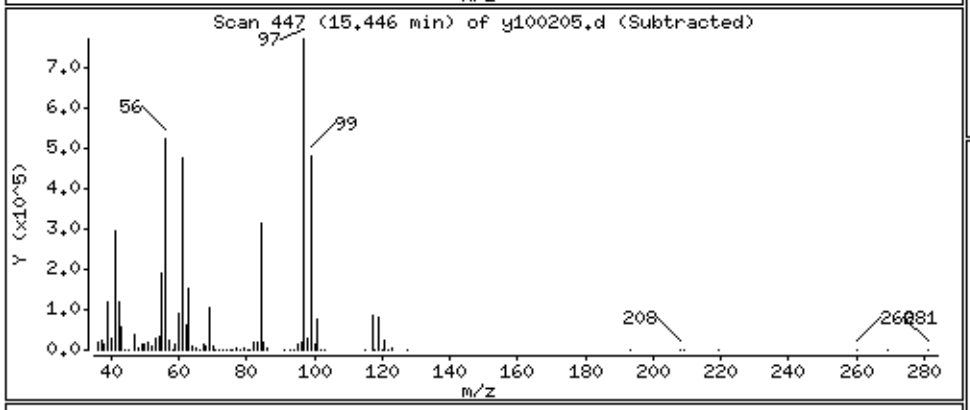
Column diameter: 0.53

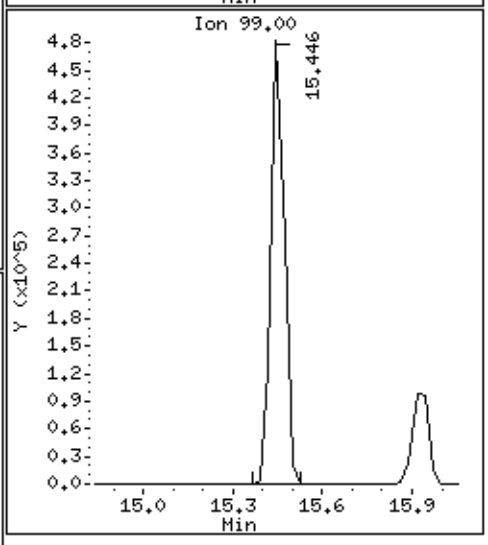
84 1,1,1-Trichloroethane

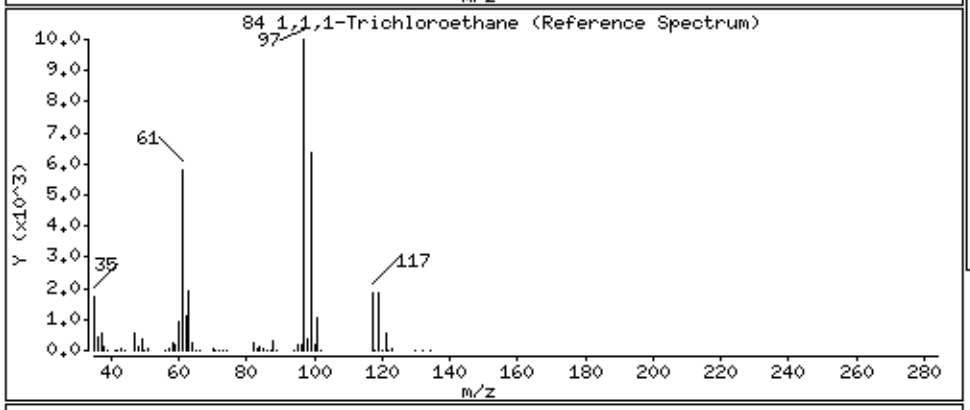
Concentration: 63.204 PPBV

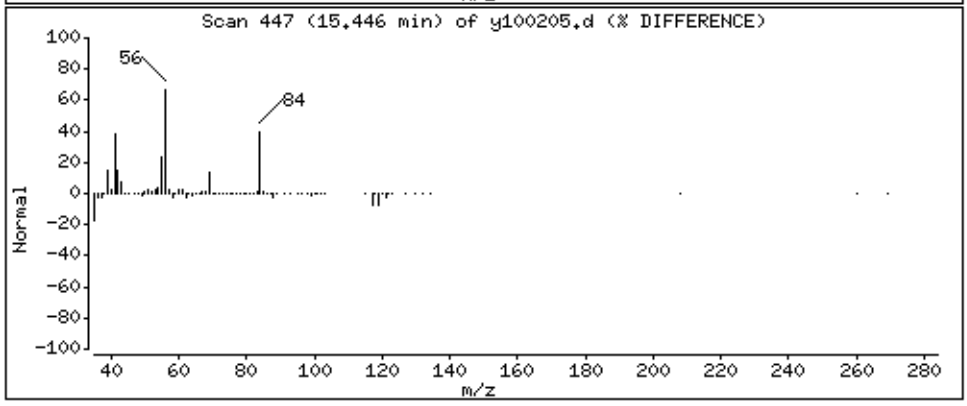












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

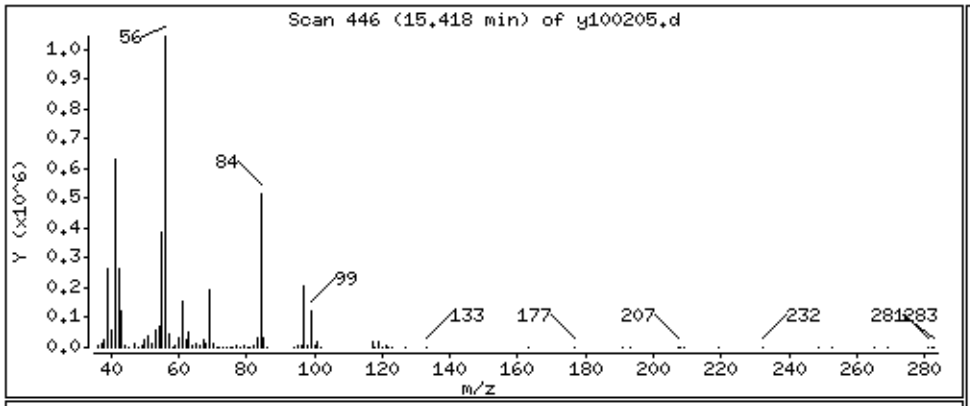
Operator: kr

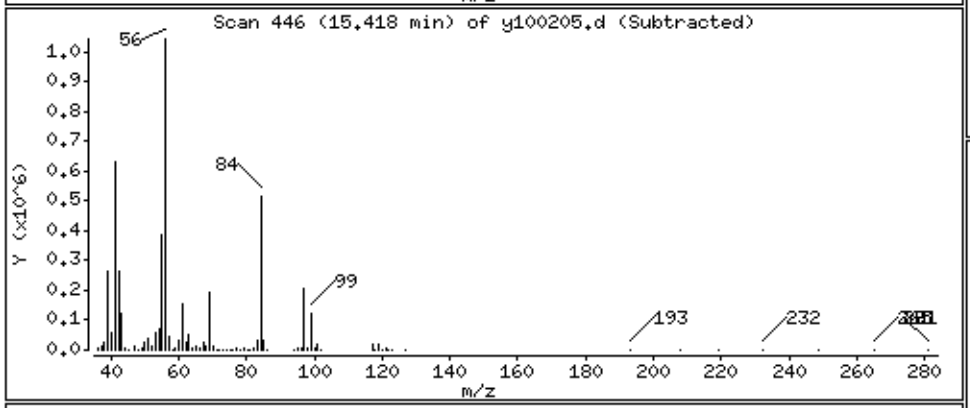
Column phase: RTx-624

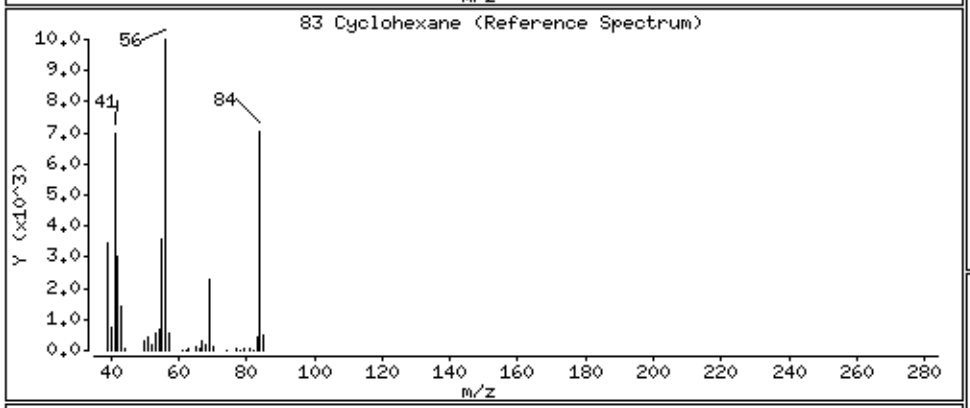
Column diameter: 0.53

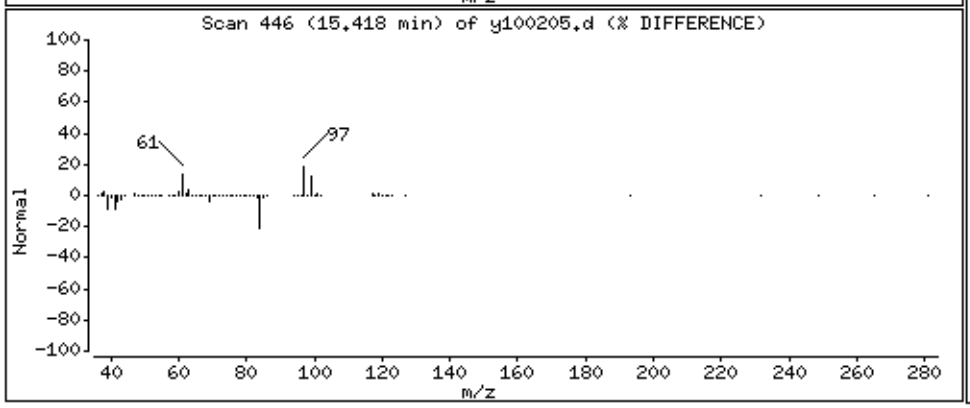
83 Cyclohexane

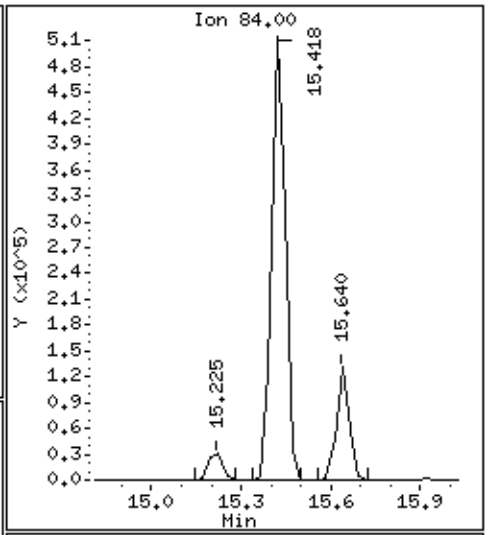
Concentration: 49.986 PPBV

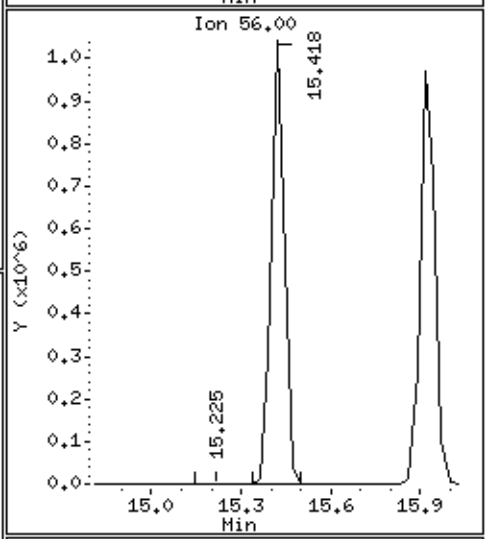


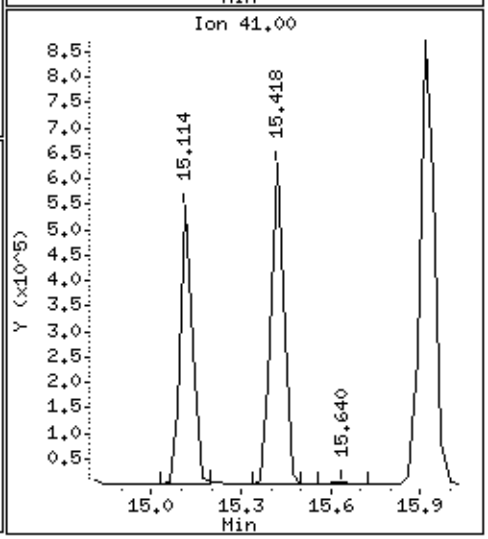












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

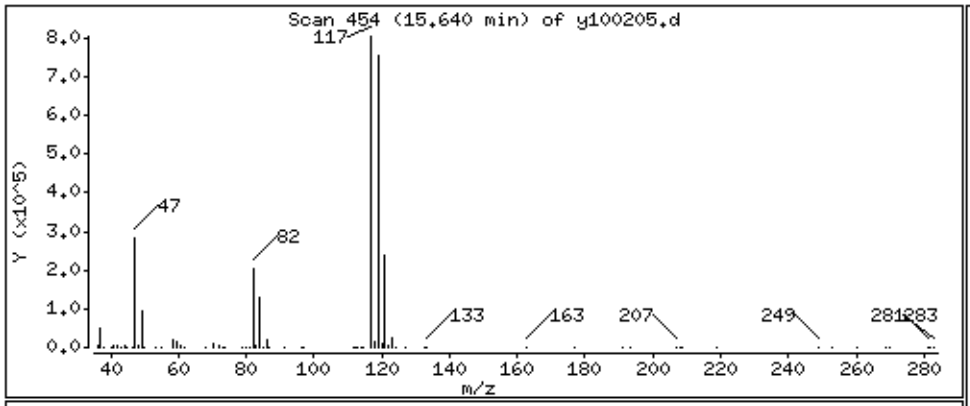
Operator: kr

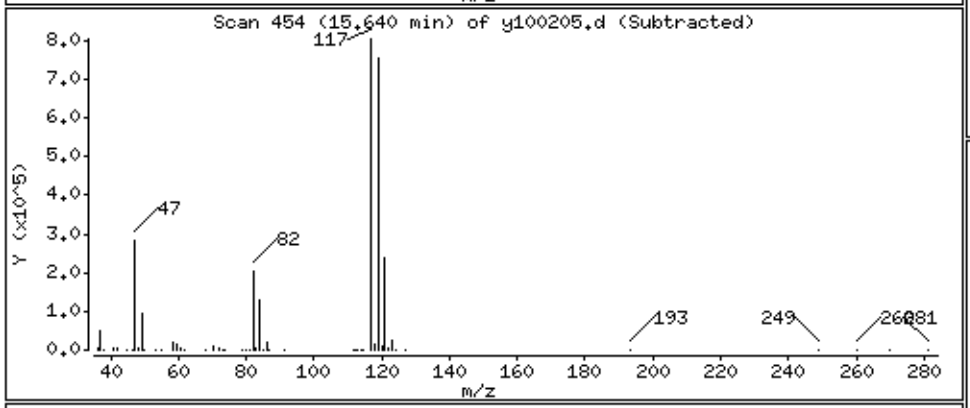
Column phase: RTx-624

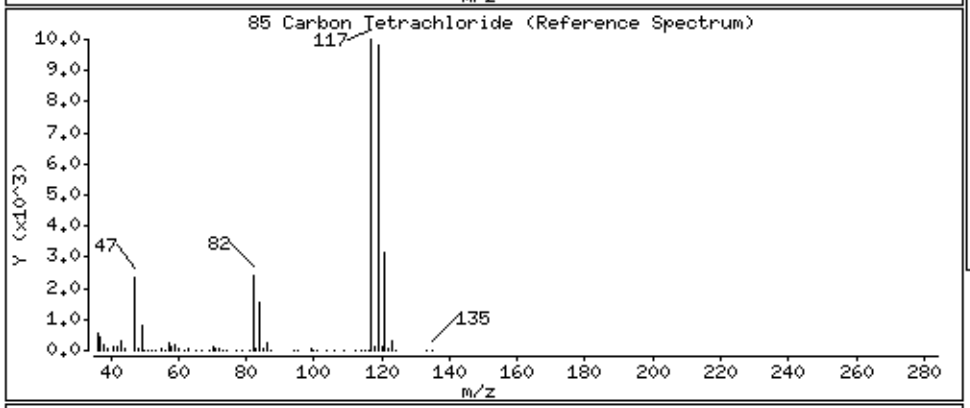
Column diameter: 0.53

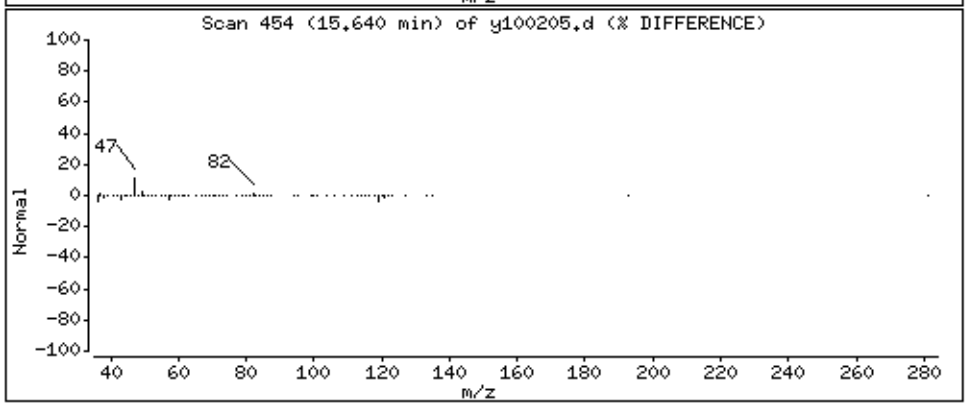
85 Carbon Tetrachloride

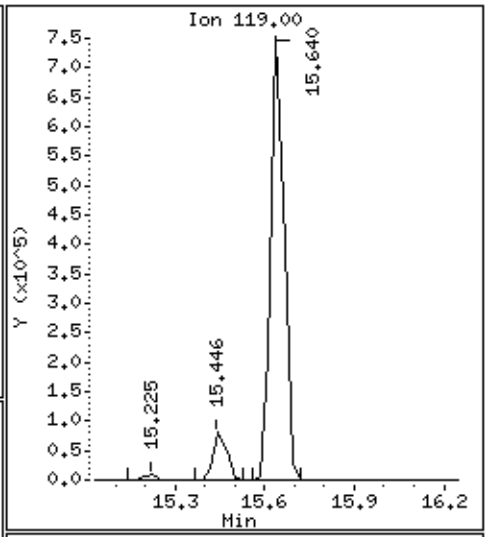
Concentration: 54.342 PPBV

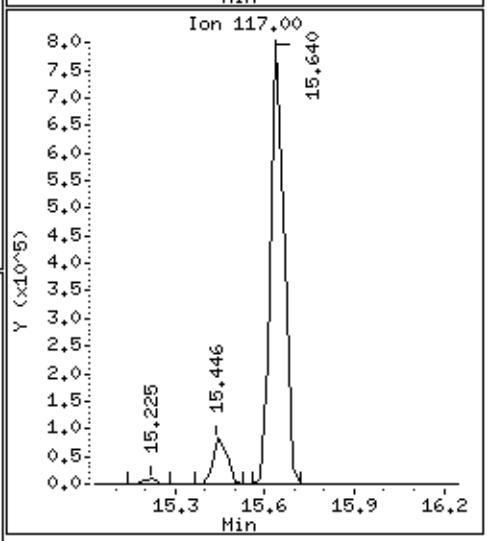












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

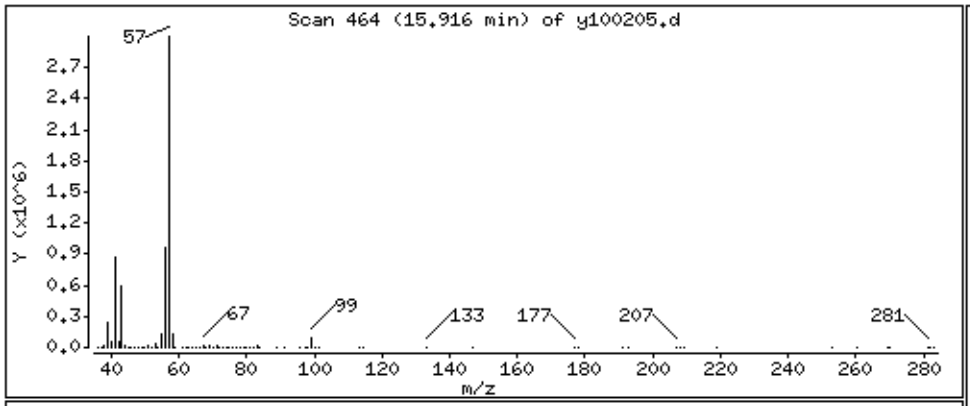
Operator: kr

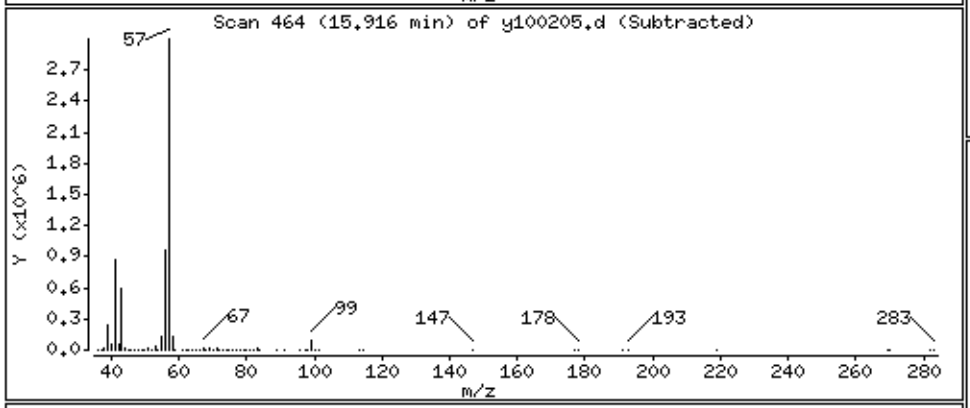
Column phase: RTx-624

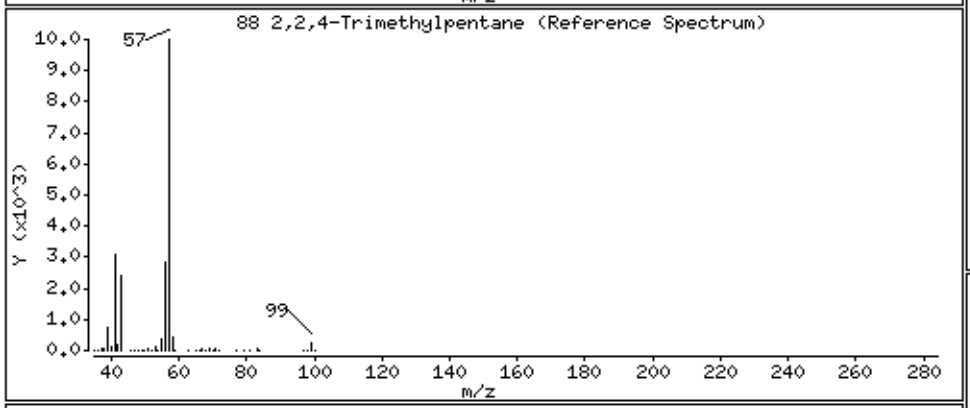
Column diameter: 0.53

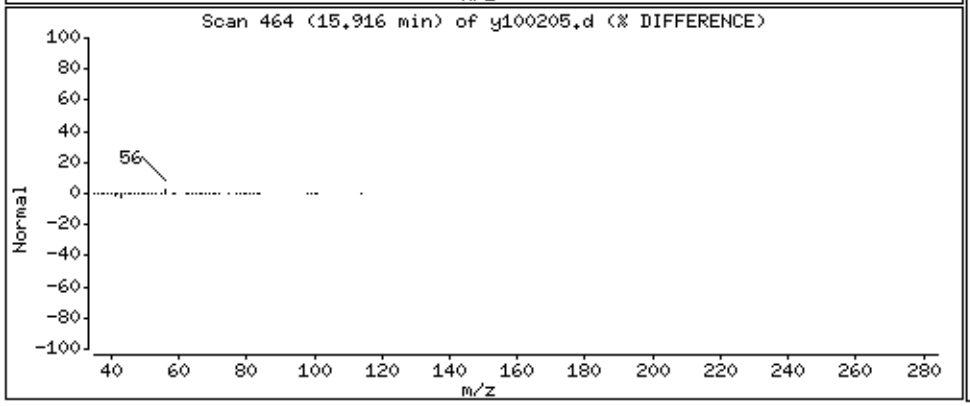
88 2,2,4-Trimethylpentane

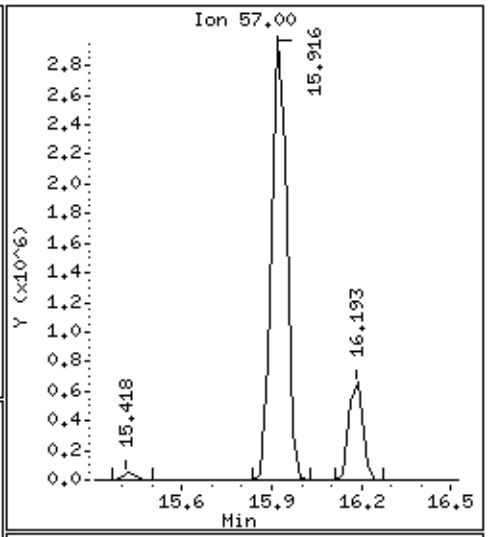
Concentration: 53.285 PPBV

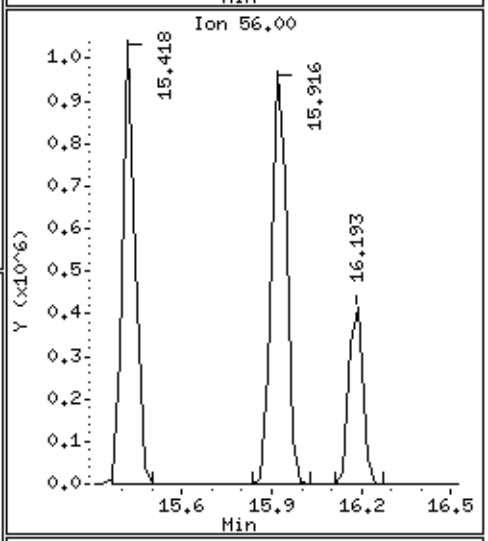


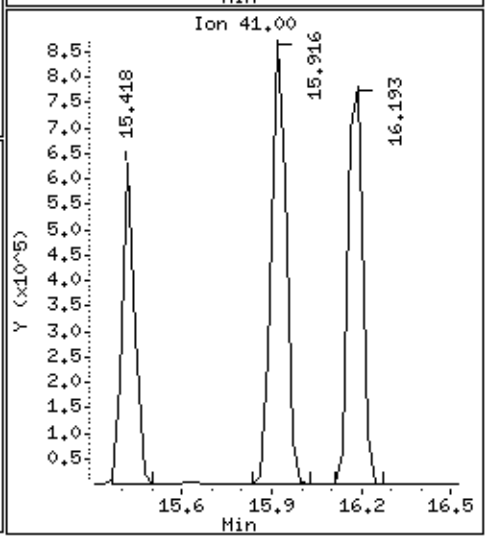












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

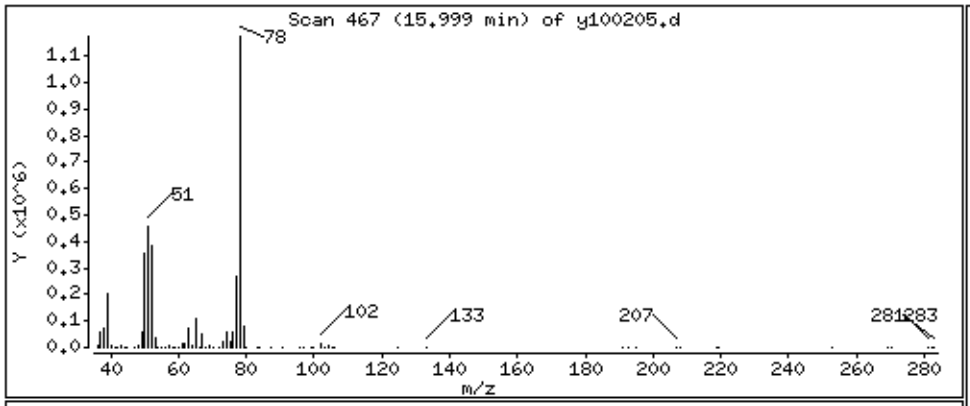
Operator: kr

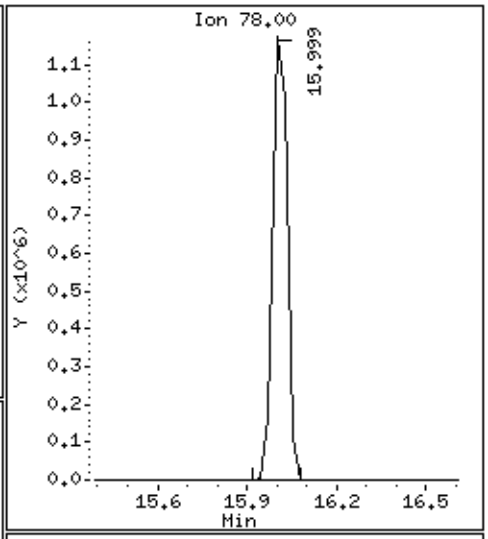
Column phase: RTx-624

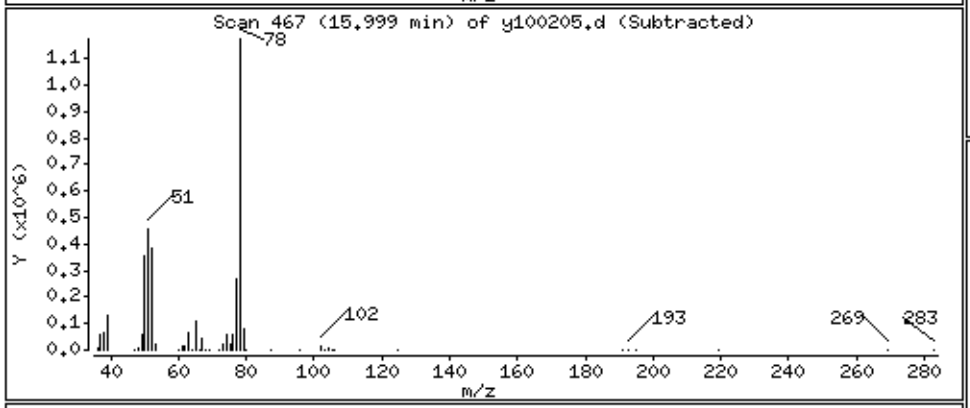
Column diameter: 0.53

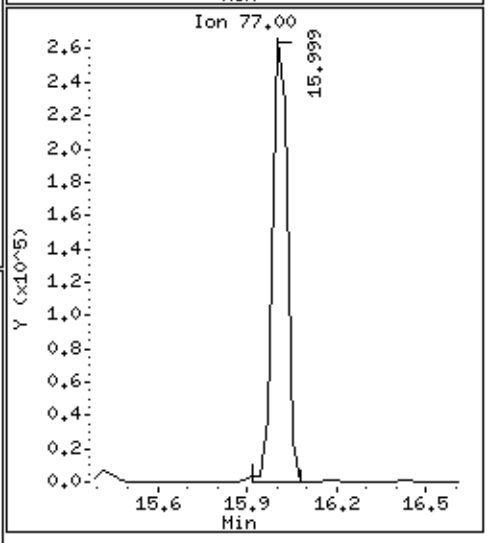
90 Benzene

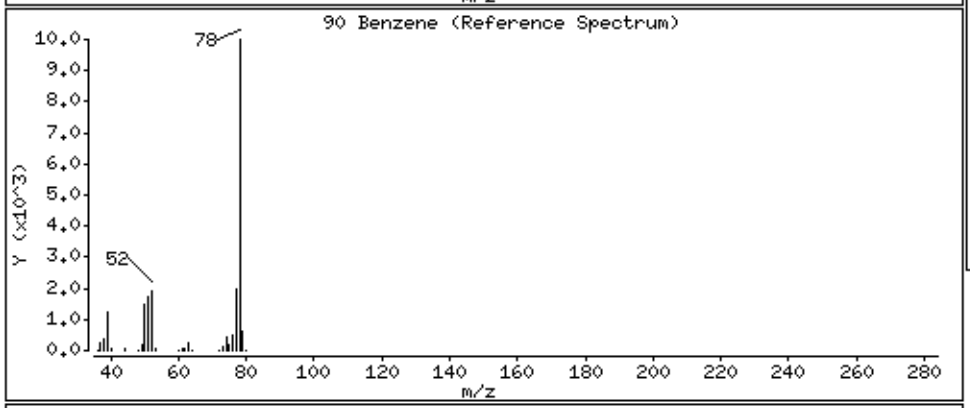
Concentration: 48.559 PPBV

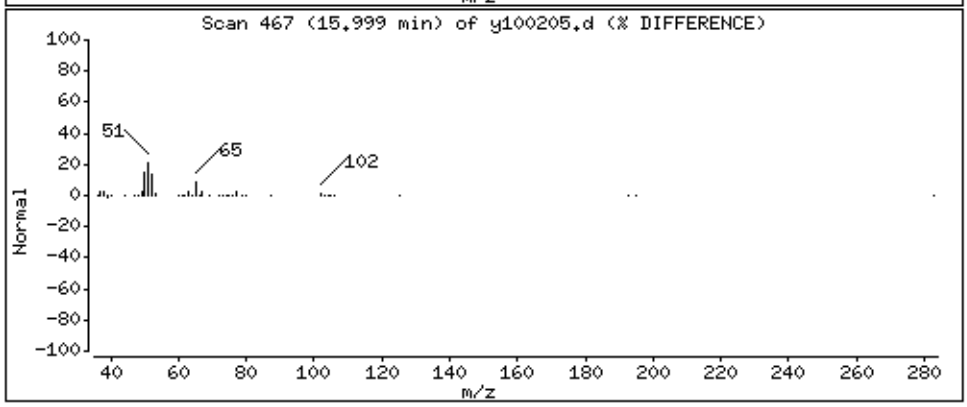












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

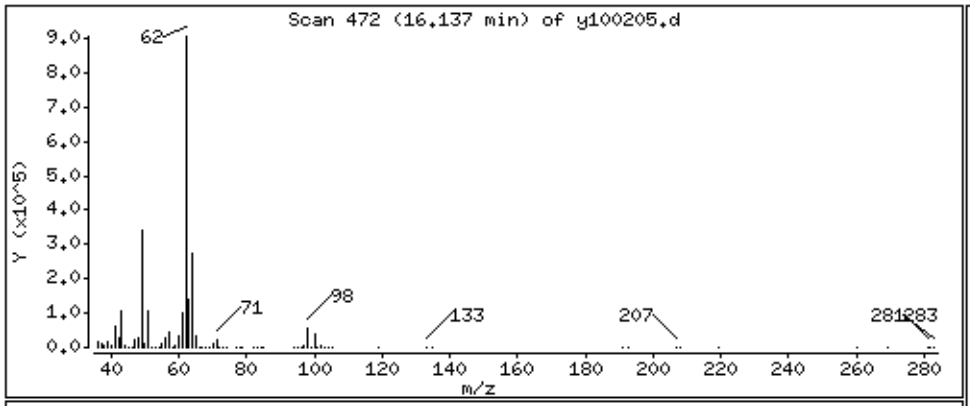
Operator: kr

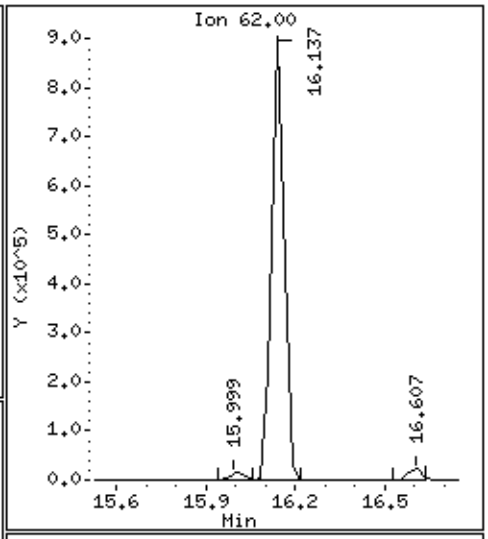
Column phase: RTx-624

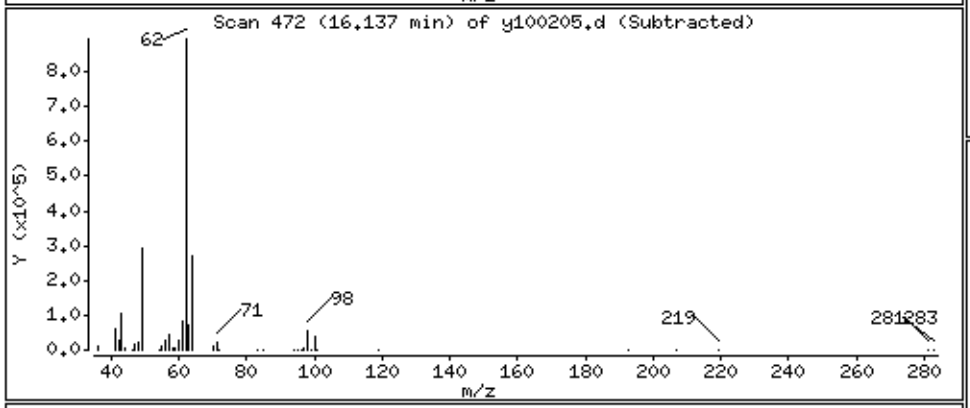
Column diameter: 0.53

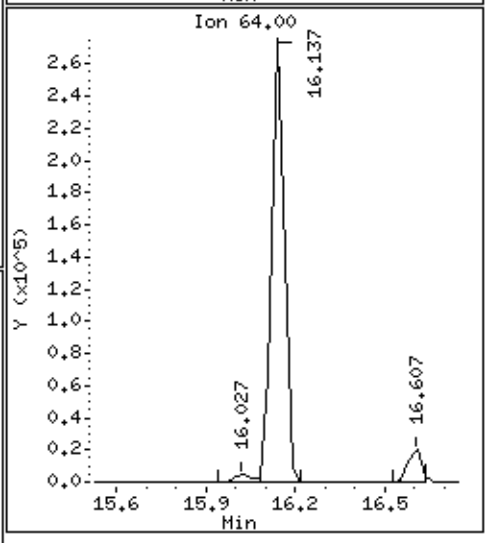
92 1,2-Dichloroethane

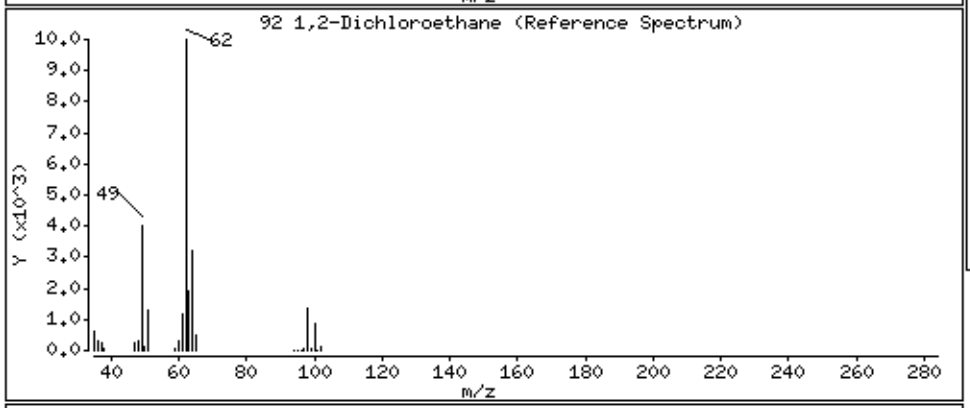
Concentration: 54.814 PPBV

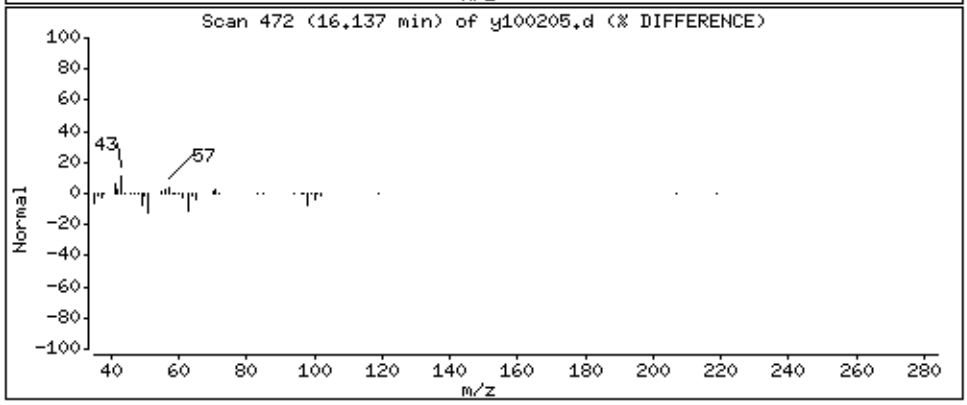












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

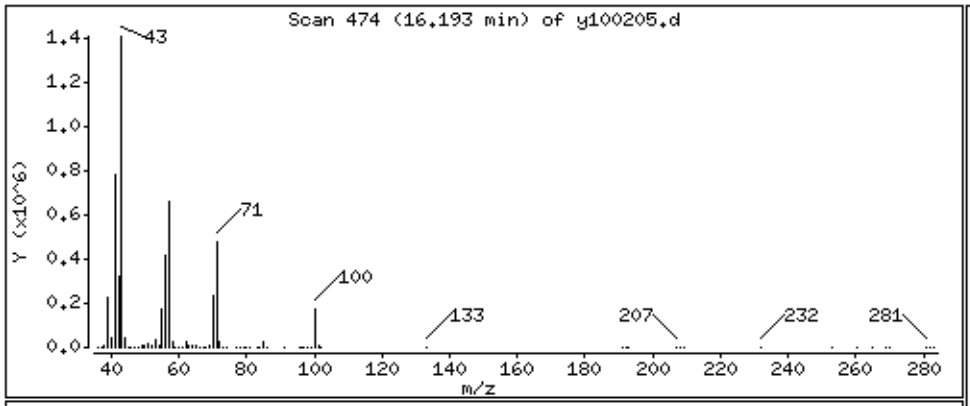
Operator: kr

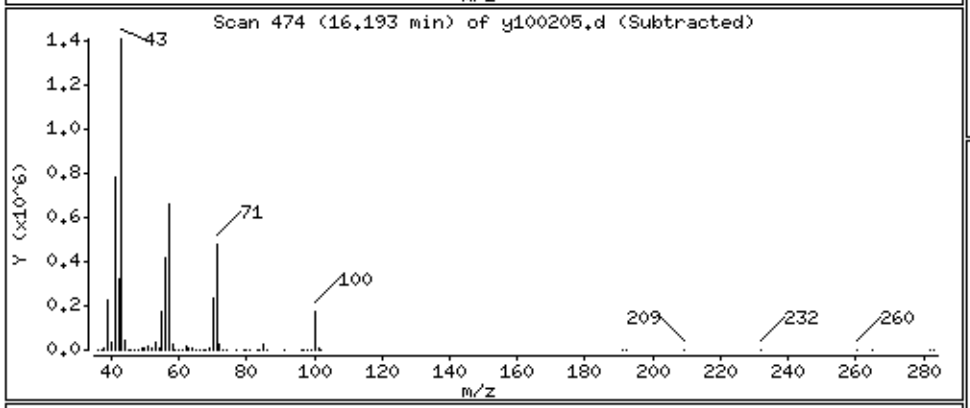
Column phase: RTx-624

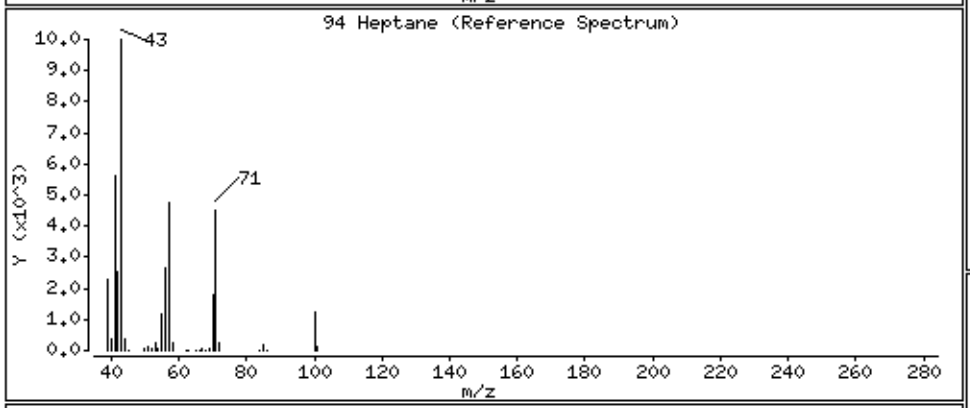
Column diameter: 0.53

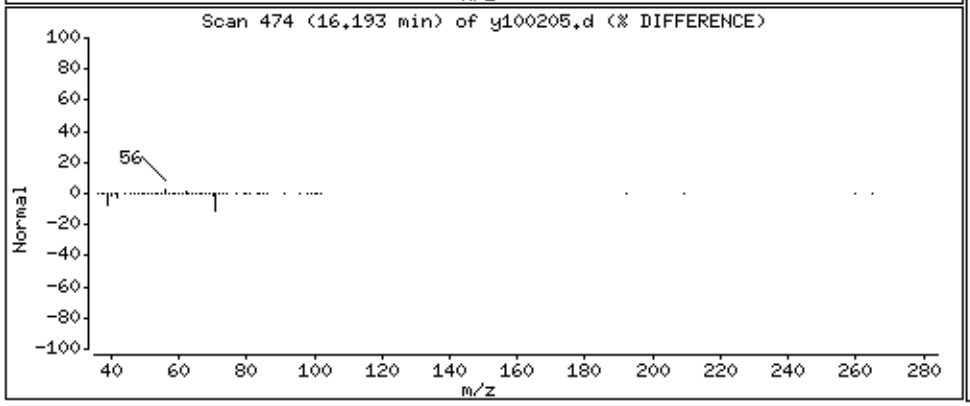
94 Heptane

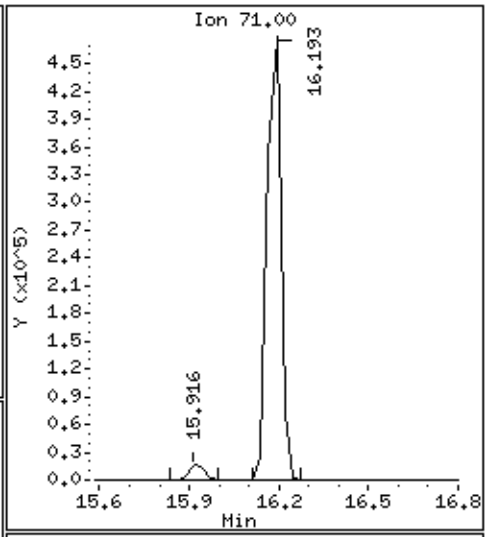
Concentration: 50.063 PPBV

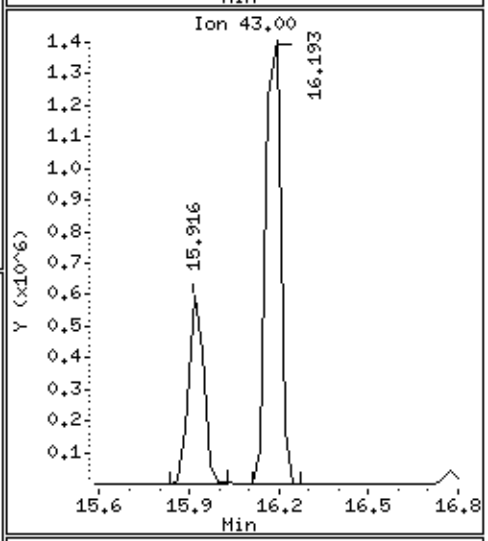


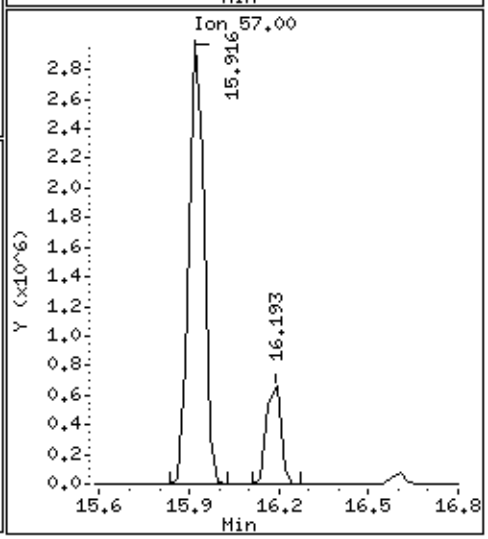












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

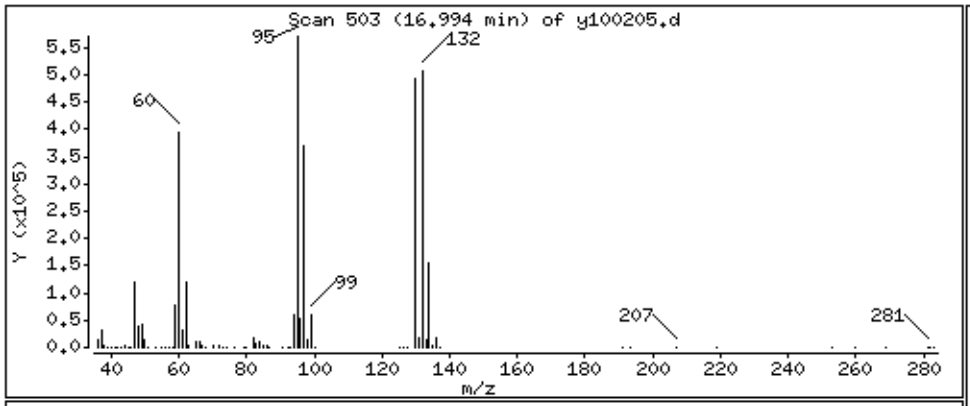
Operator: kr

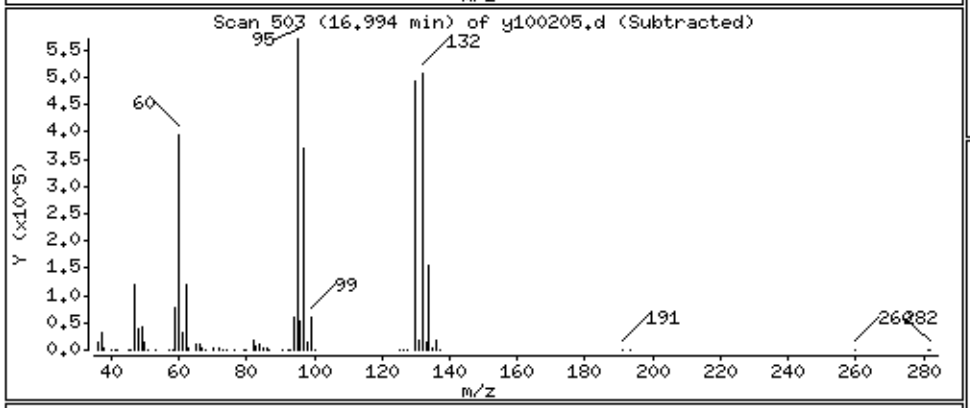
Column phase: RTx-624

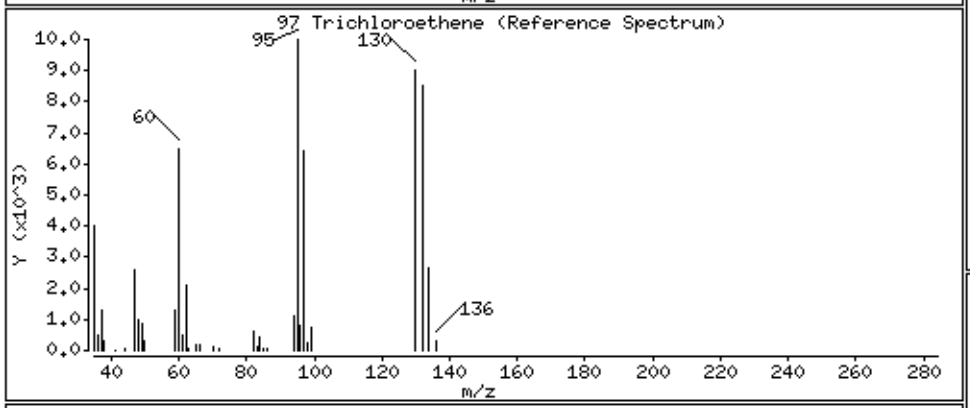
Column diameter: 0.53

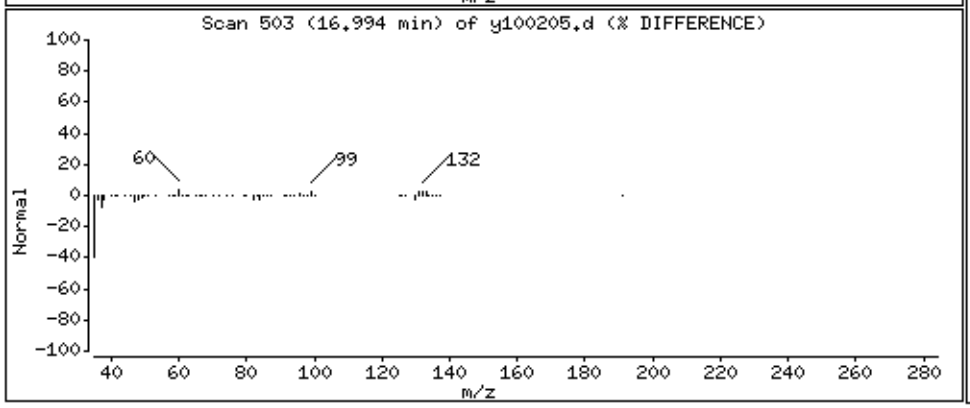
97 Trichloroethene

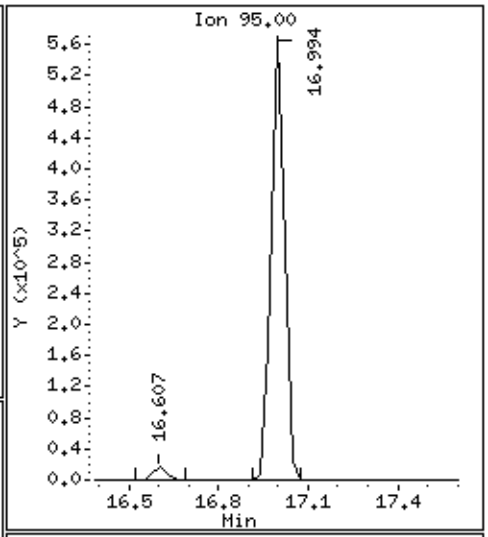
Concentration: 51.906 PPBV

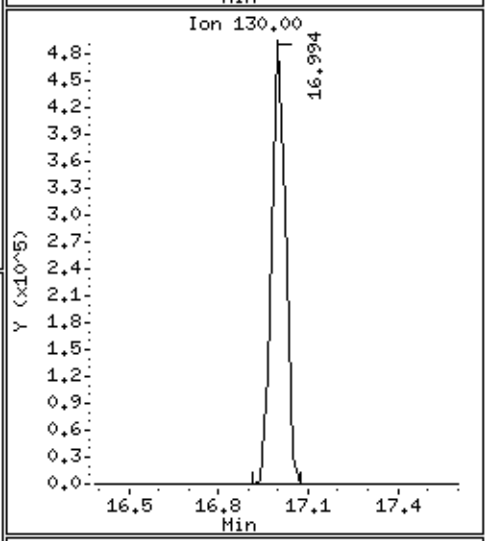


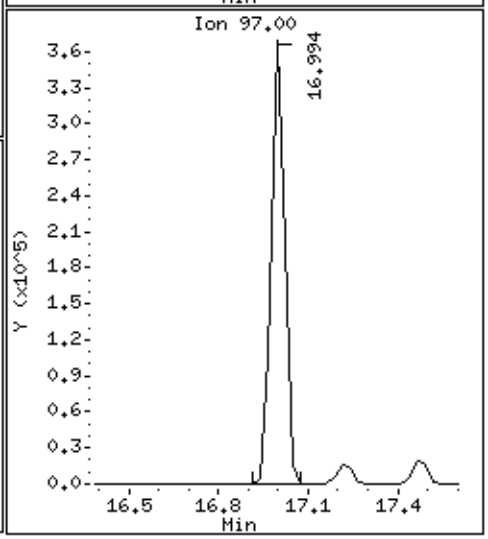












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

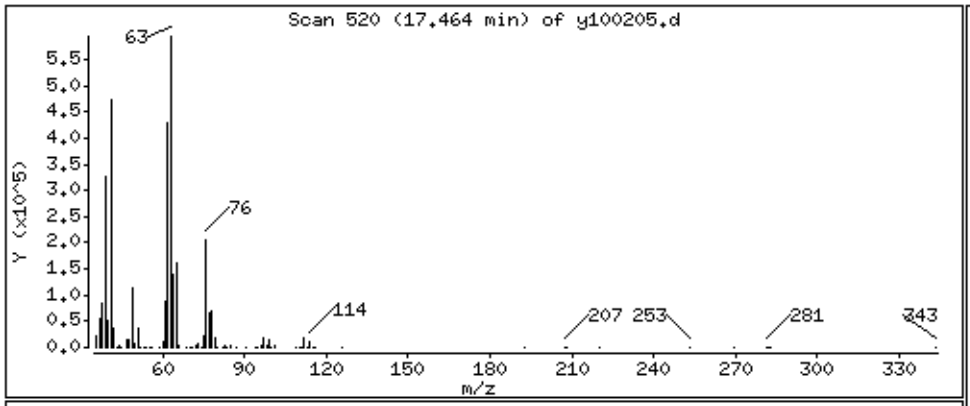
Operator: kr

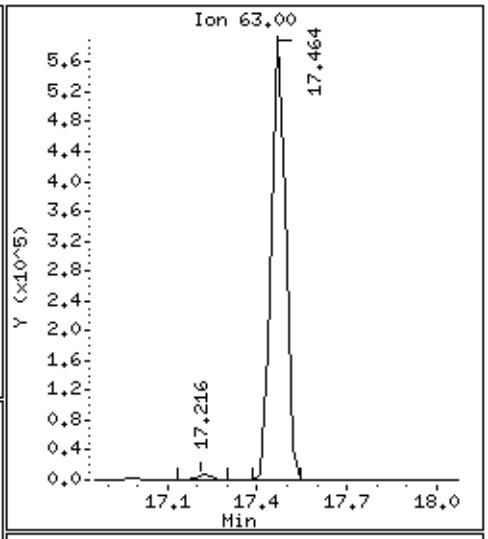
Column phase: RTx-624

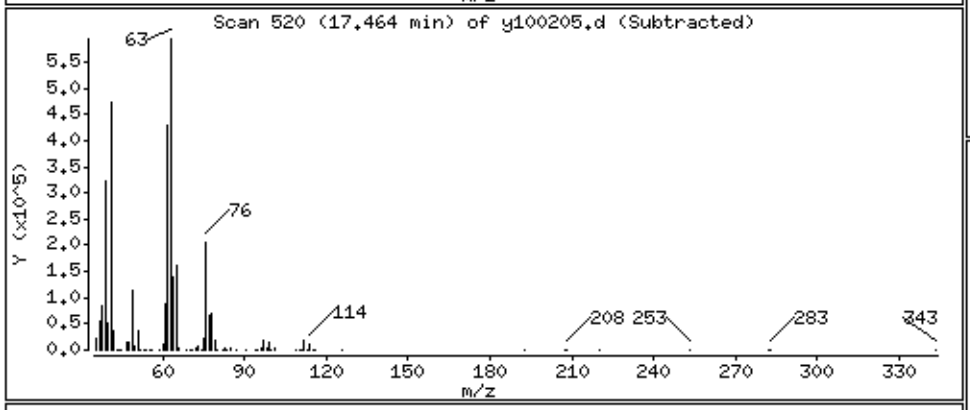
Column diameter: 0.53

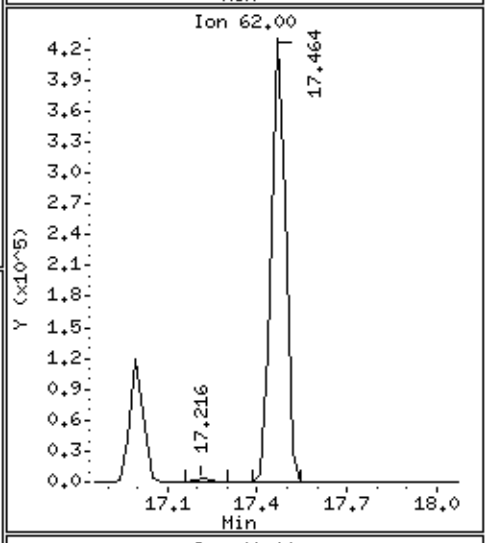
101 1,2-Dichloropropane

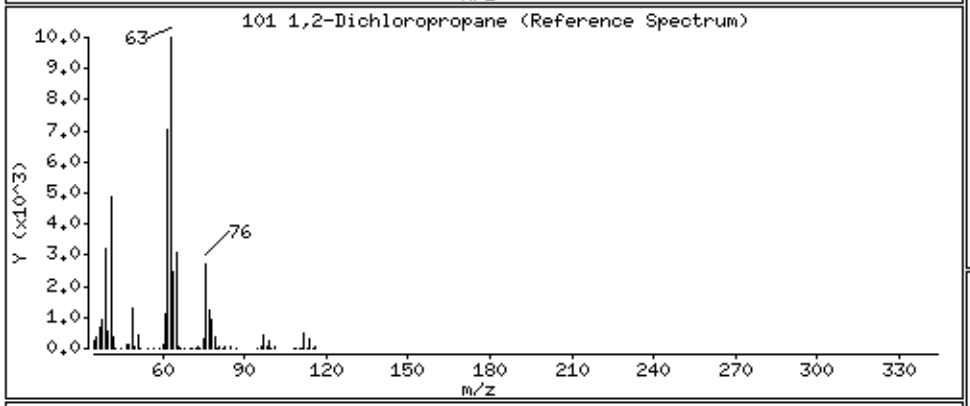
Concentration: 51.615 PPBV

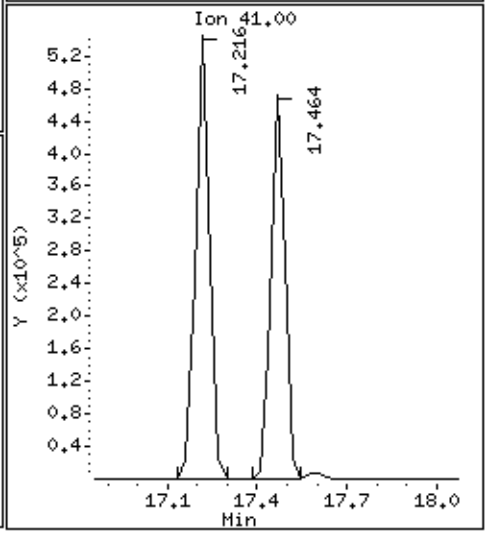


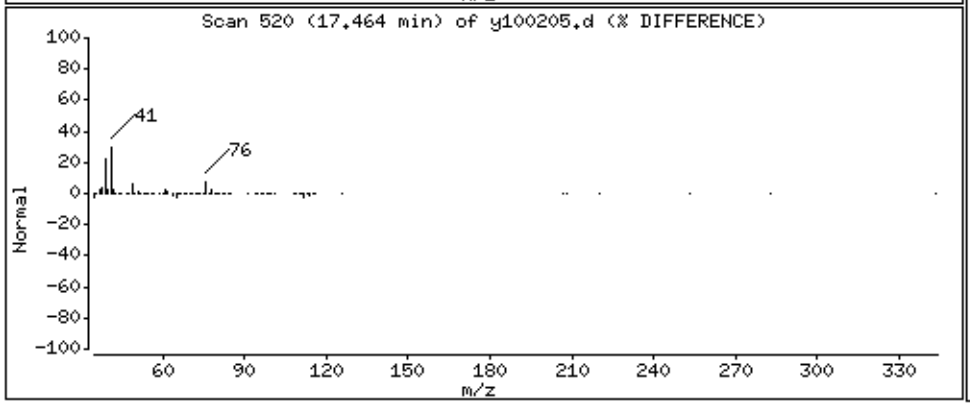












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

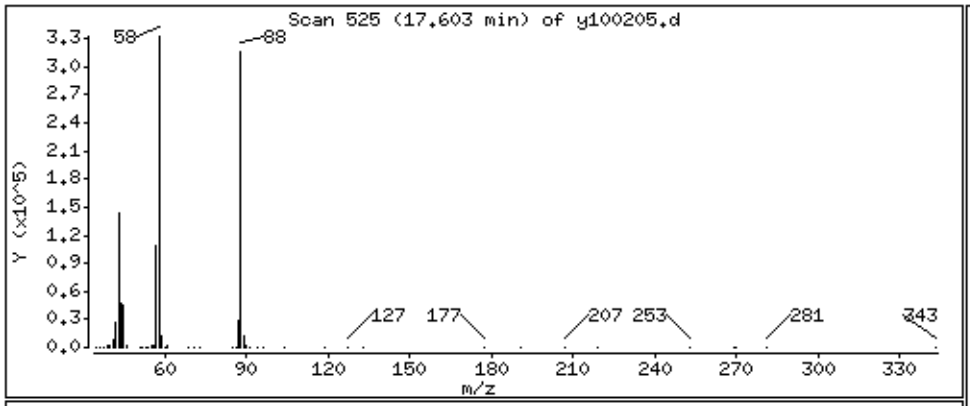
Operator: kr

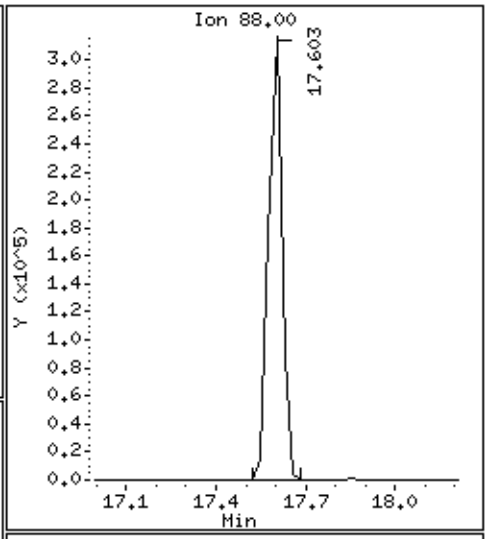
Column phase: RTx-624

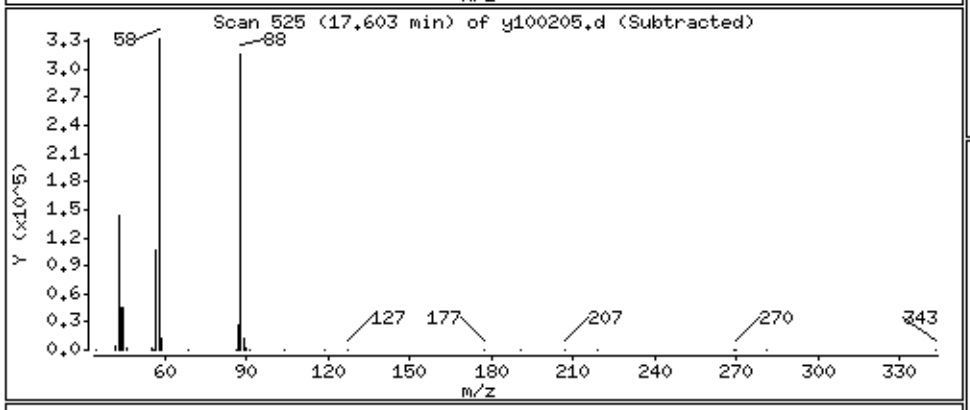
Column diameter: 0.53

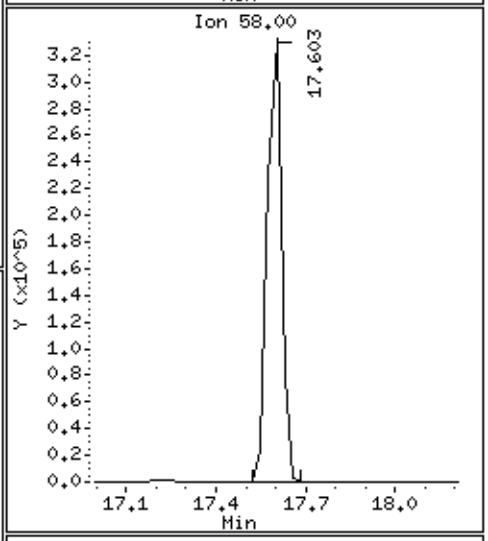
103 1,4-Dioxane

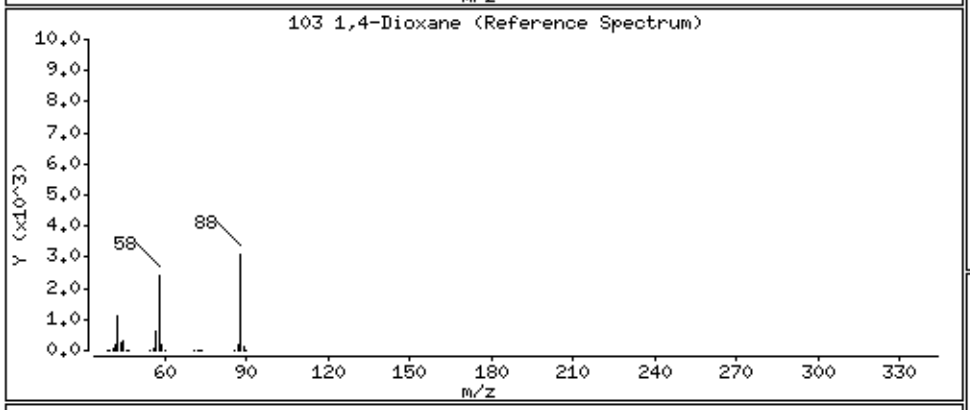
Concentration: 48.161 PPBV

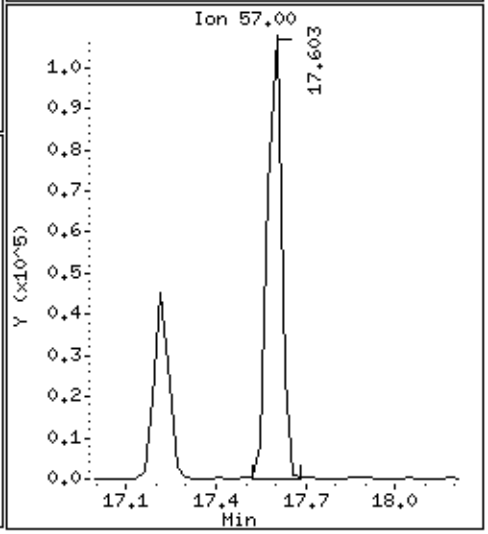


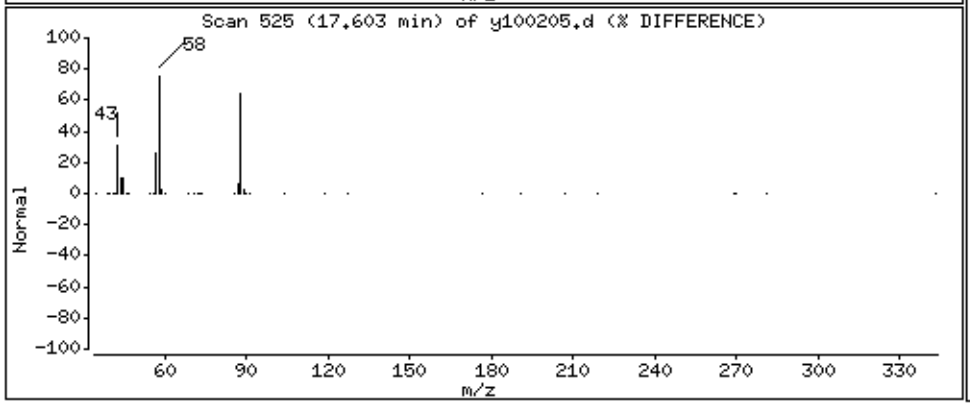












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

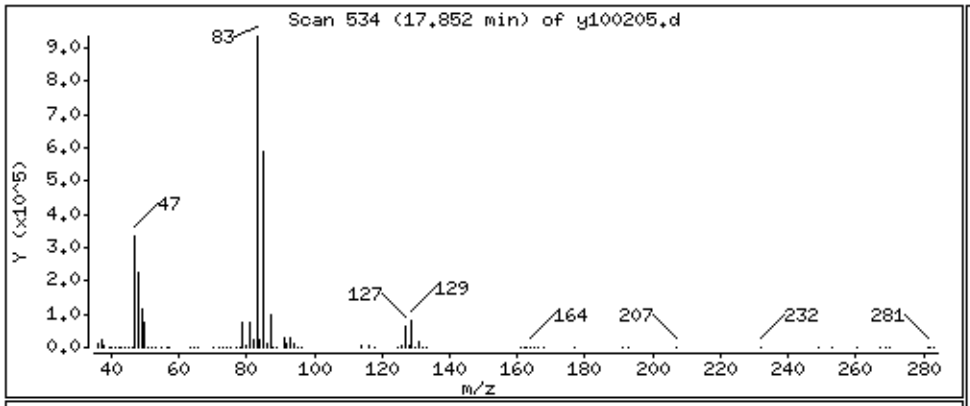
Operator: kr

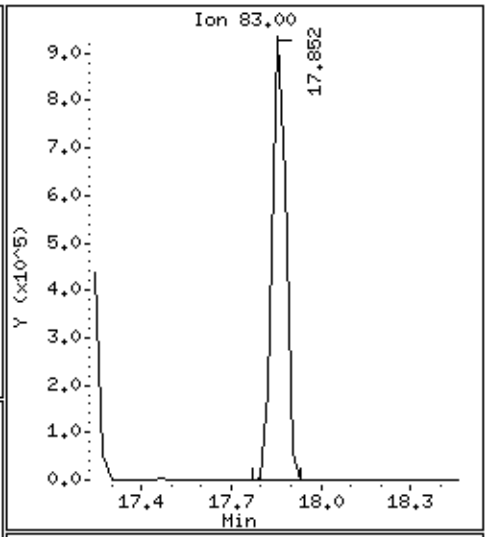
Column phase: RTx-624

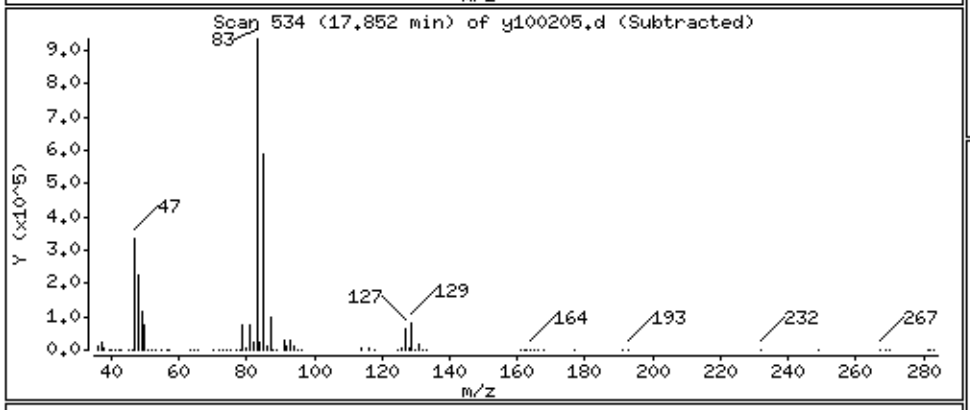
Column diameter: 0.53

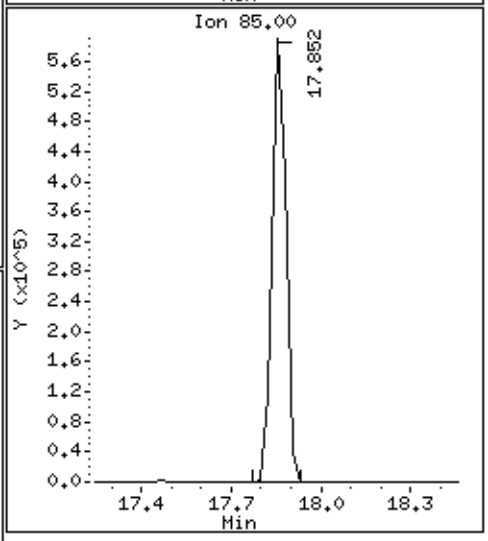
105 Bromodichloromethane

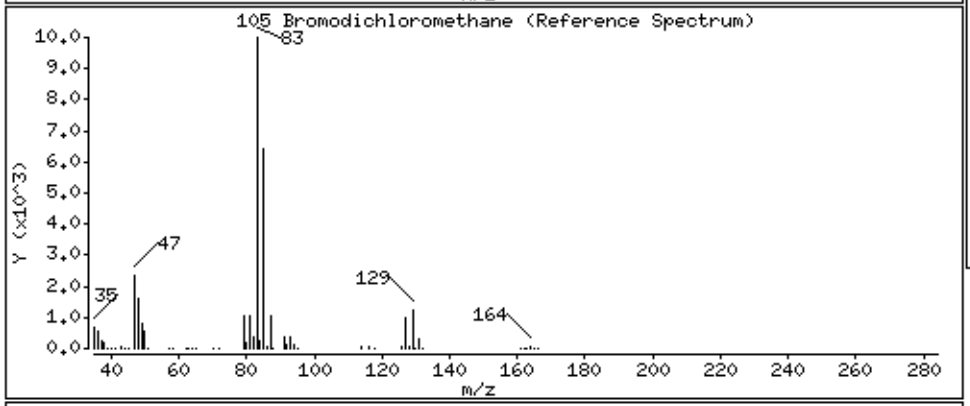
Concentration: 53.029 PPBV

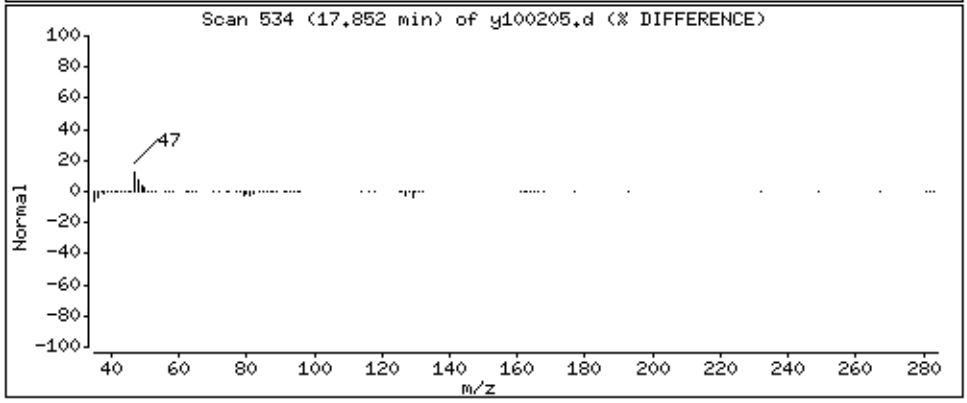












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

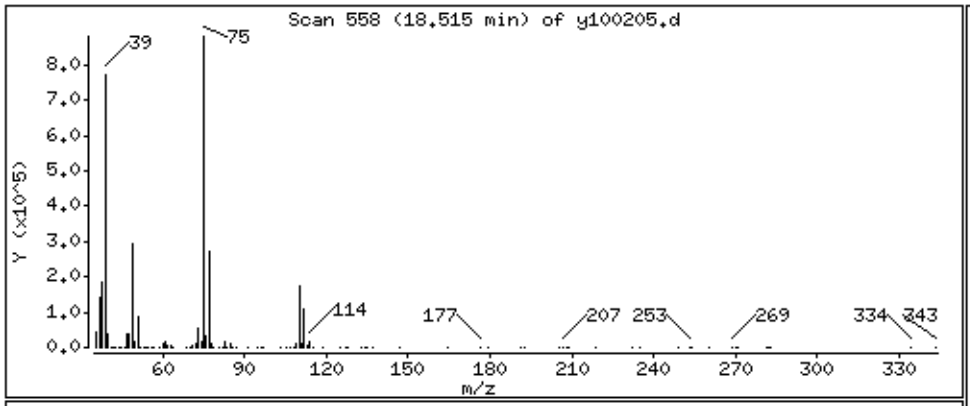
Operator: kr

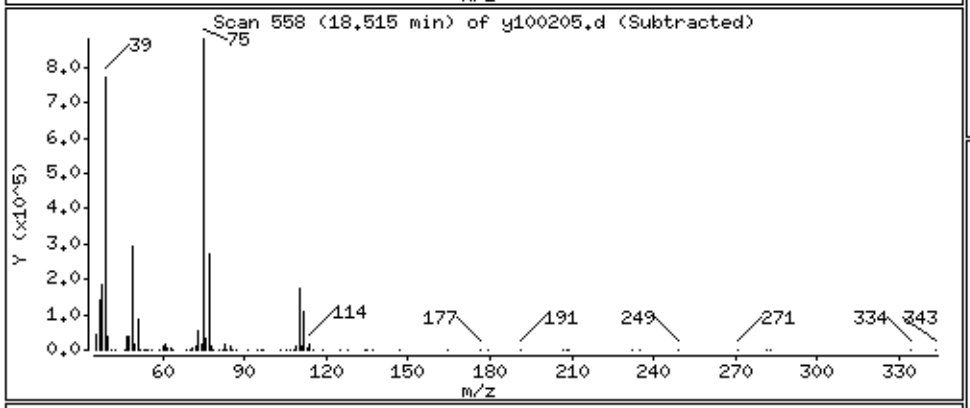
Column phase: RTx-624

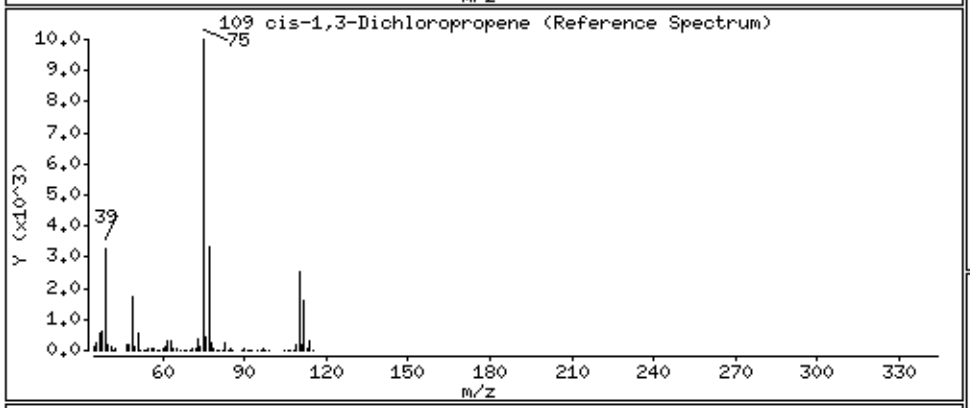
Column diameter: 0.53

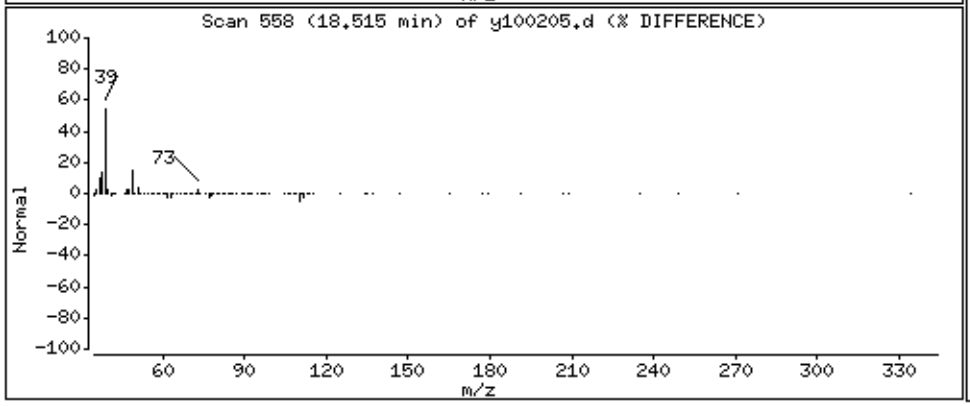
109 cis-1,3-Dichloropropene

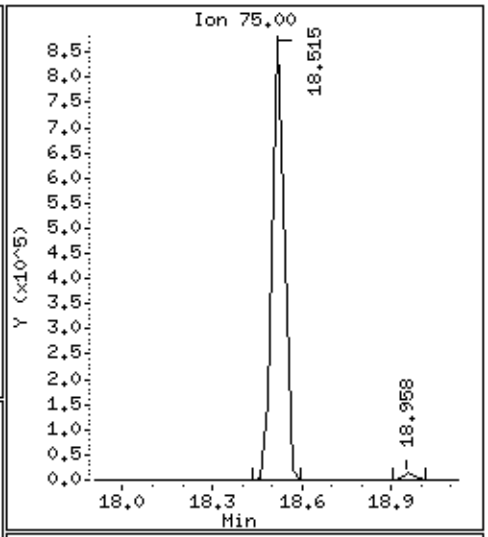
Concentration: 52.203 PPBV

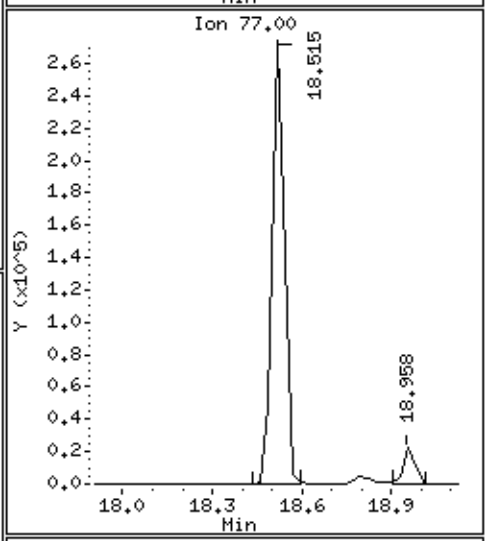


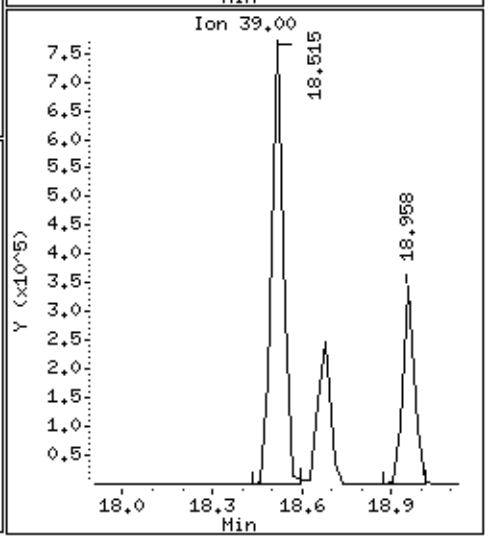












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

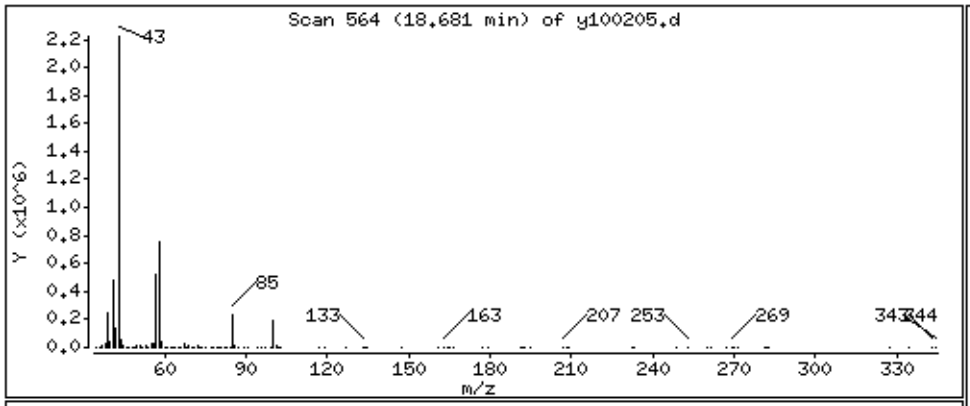
Operator: kr

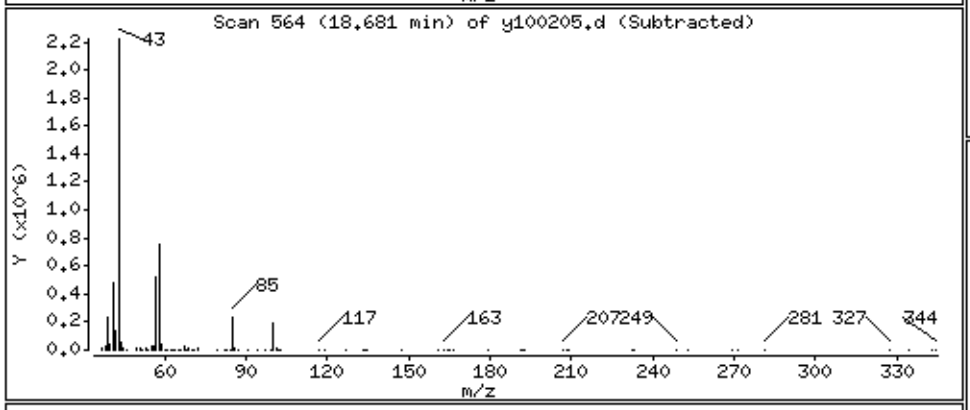
Column phase: RTx-624

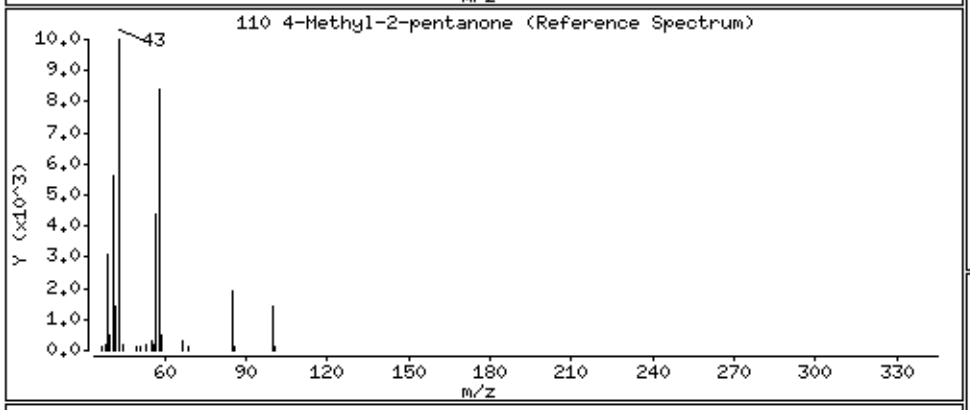
Column diameter: 0.53

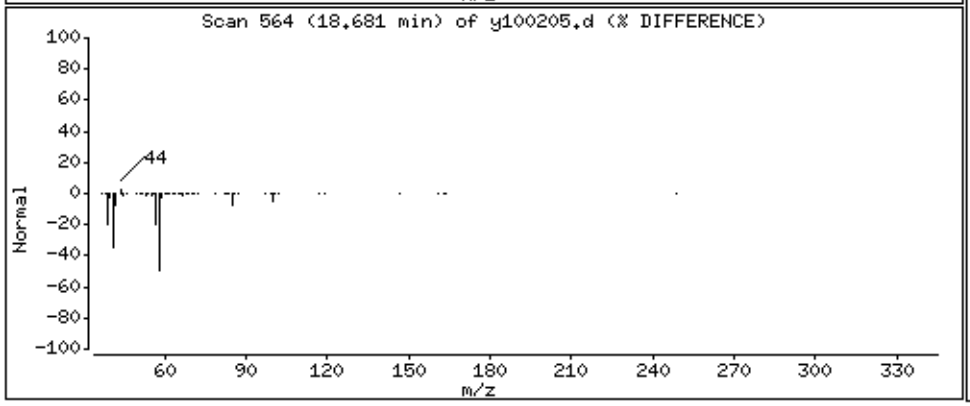
110 4-Methyl-2-pentanone

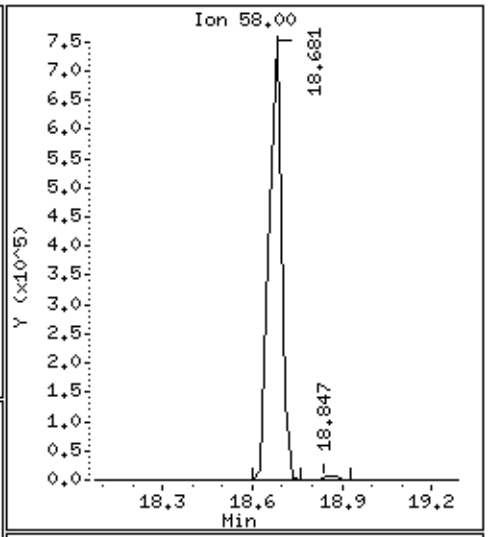
Concentration: 50.347 PPBV

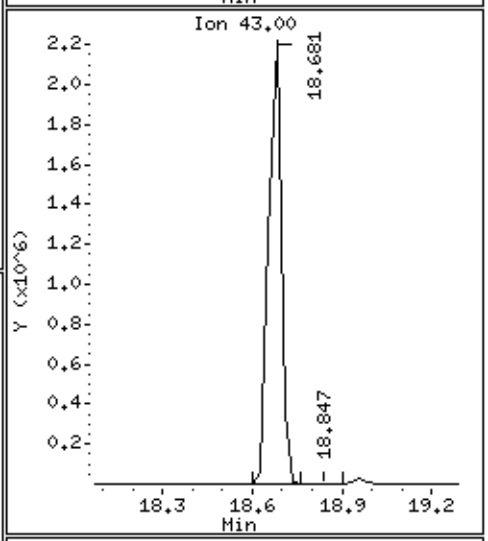


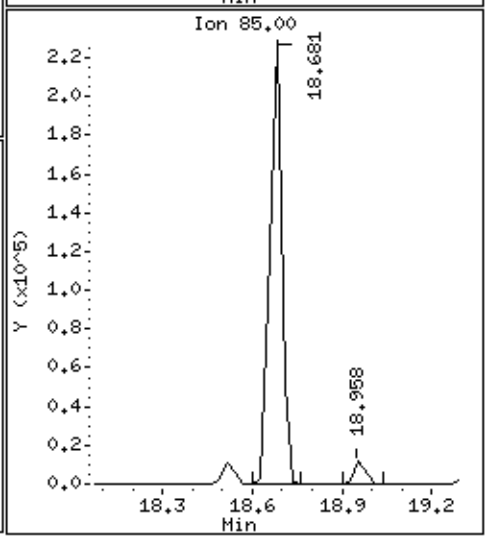












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

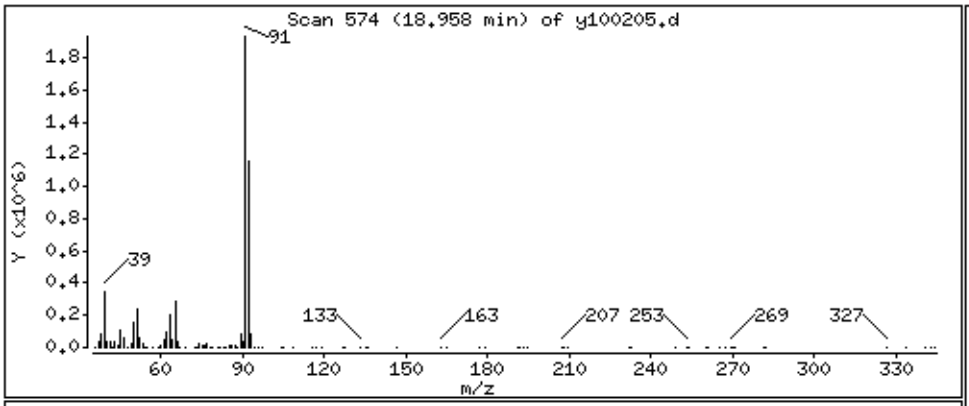
Operator: kr

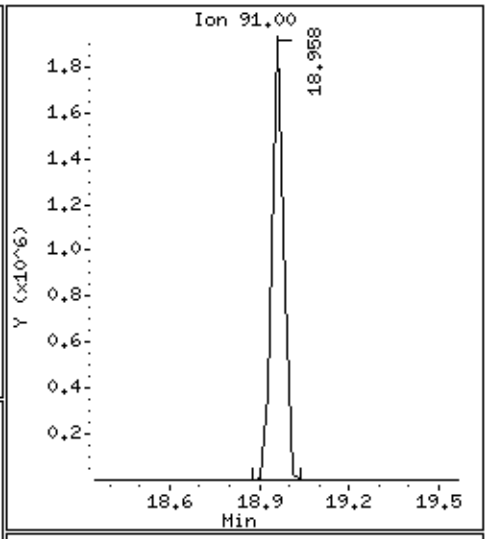
Column phase: RTx-624

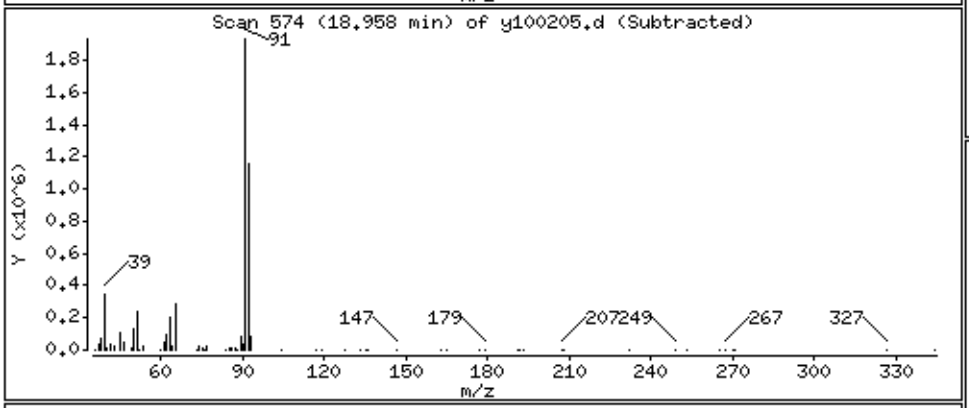
Column diameter: 0.53

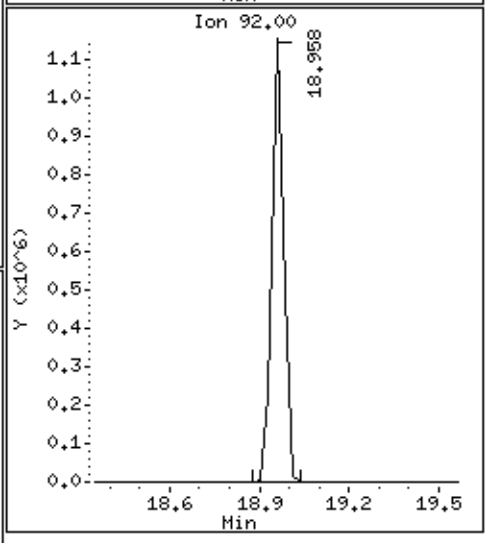
112 Toluene

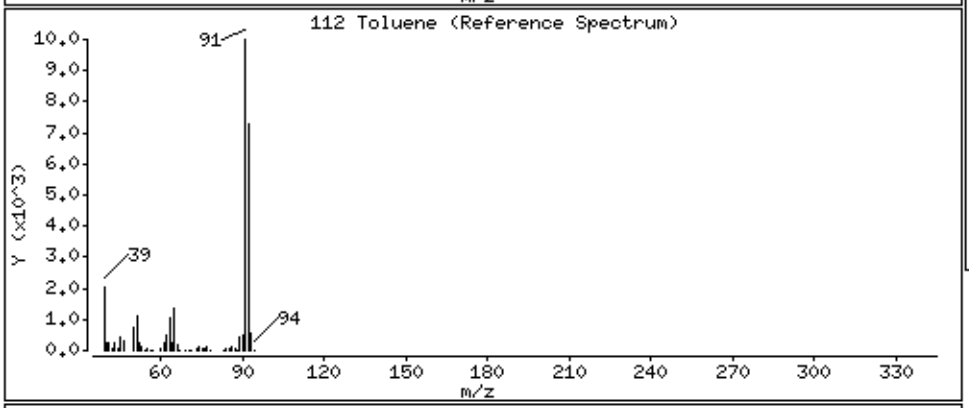
Concentration: 53.620 PPBV

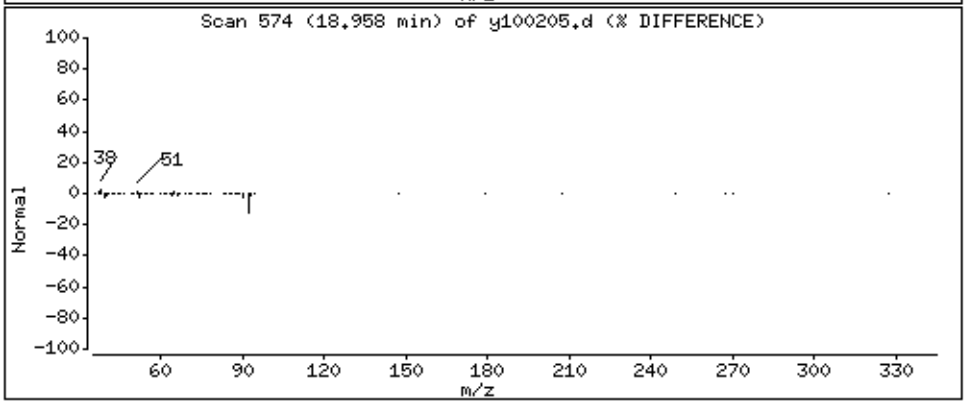












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

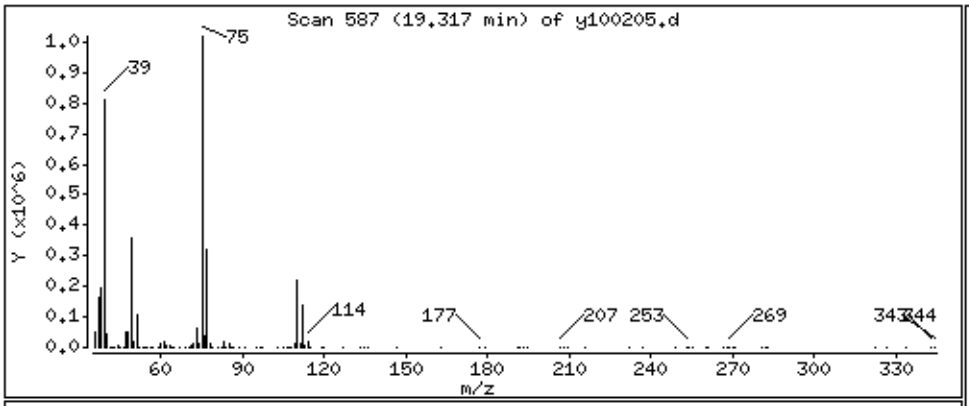
Operator: kr

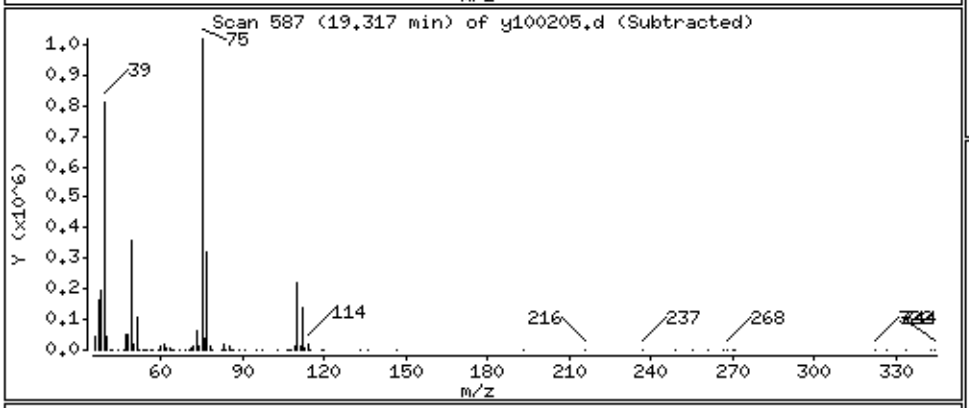
Column phase: RTx-624

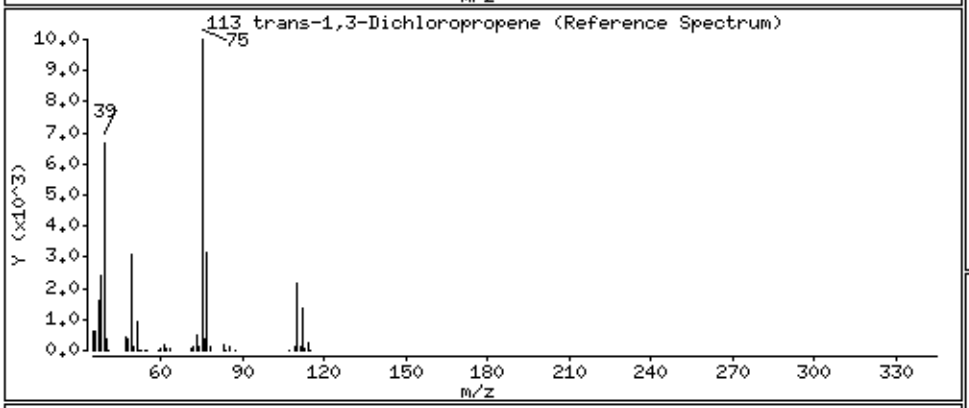
Column diameter: 0.53

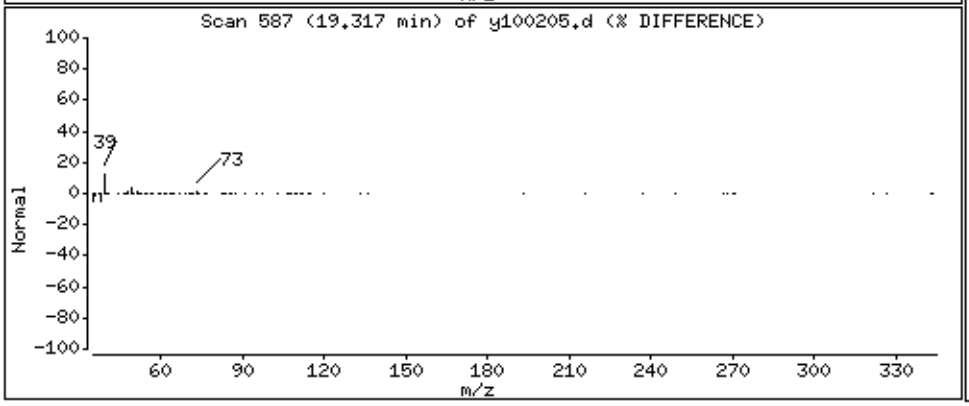
113 trans-1,3-Dichloropropene

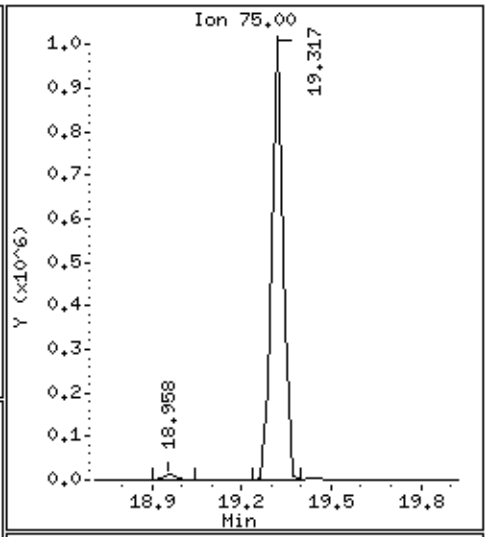
Concentration: 54.750 PPBV

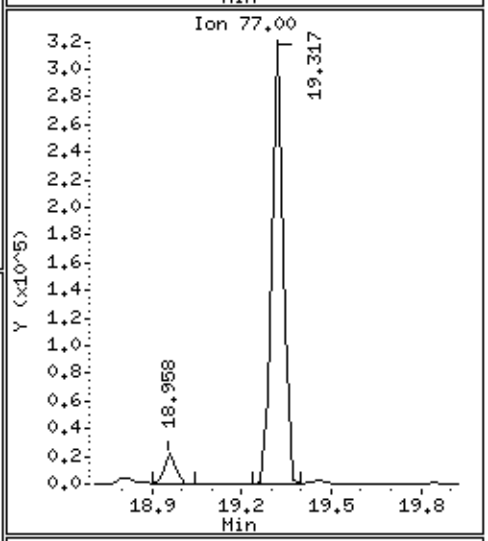


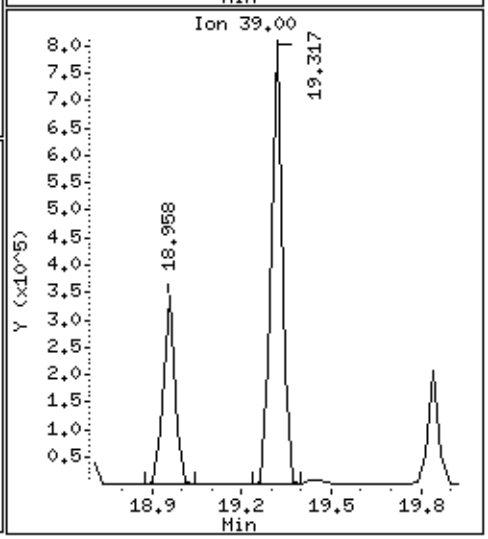












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

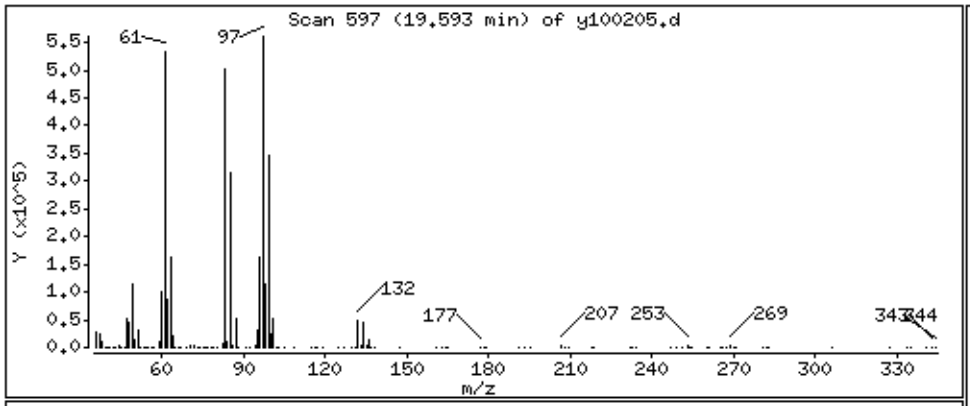
Operator: kr

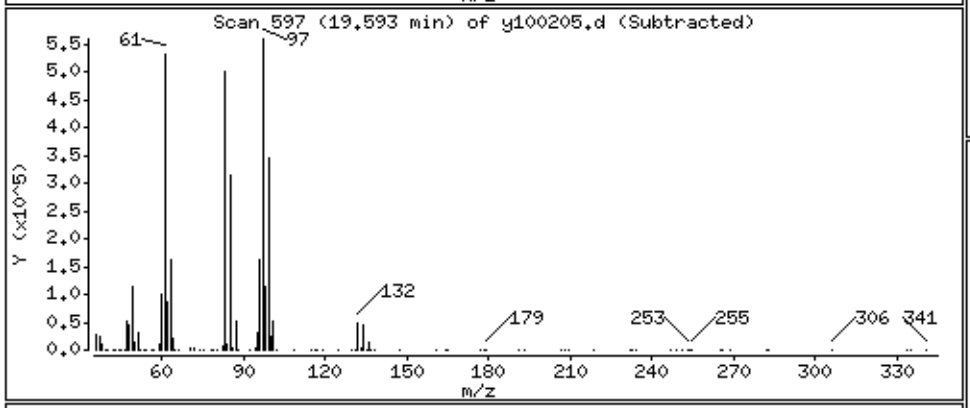
Column phase: RTx-624

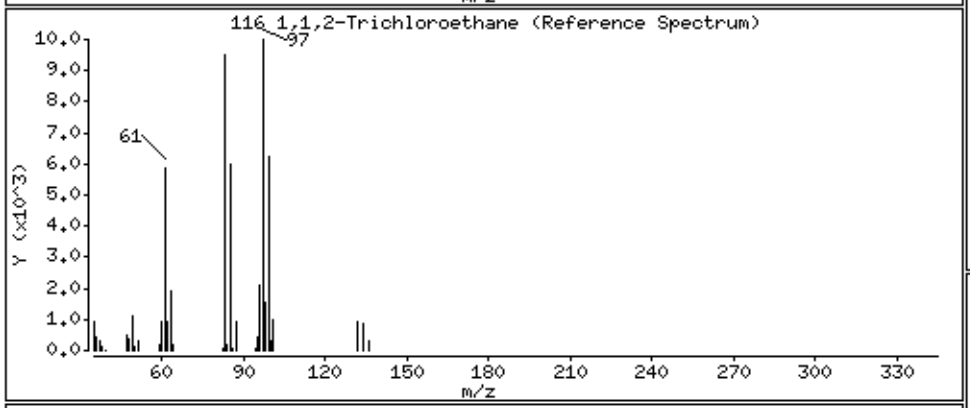
Column diameter: 0.53

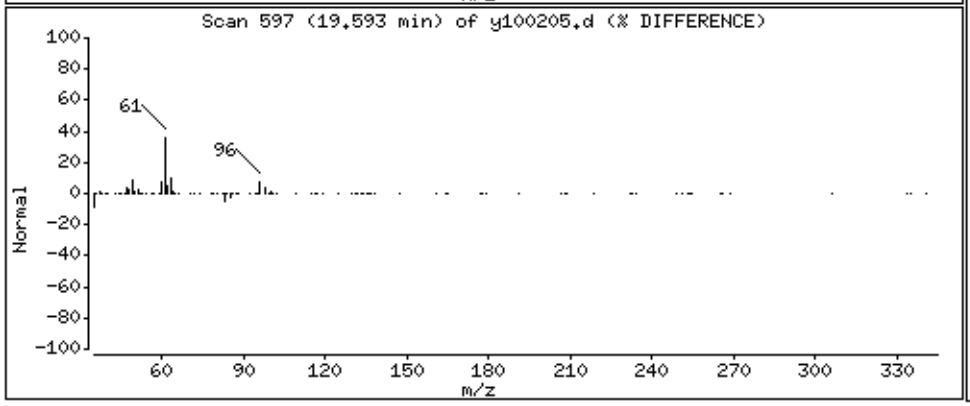
116 1,1,2-Trichloroethane

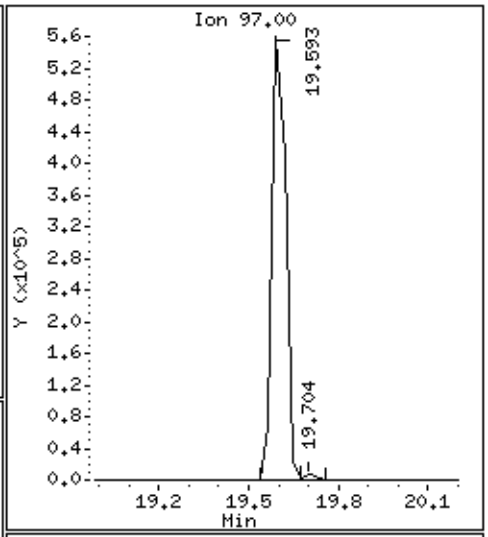
Concentration: 50.961 PPBV

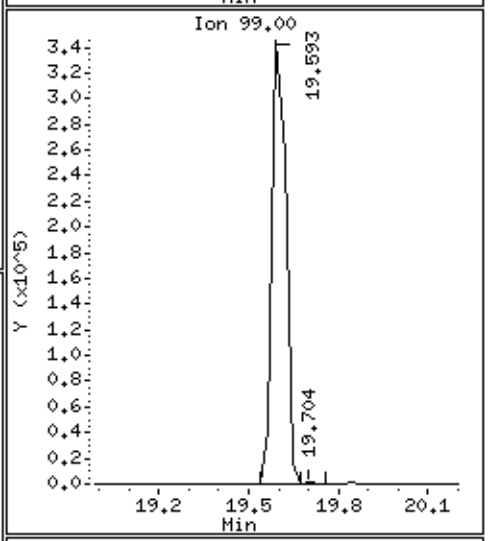


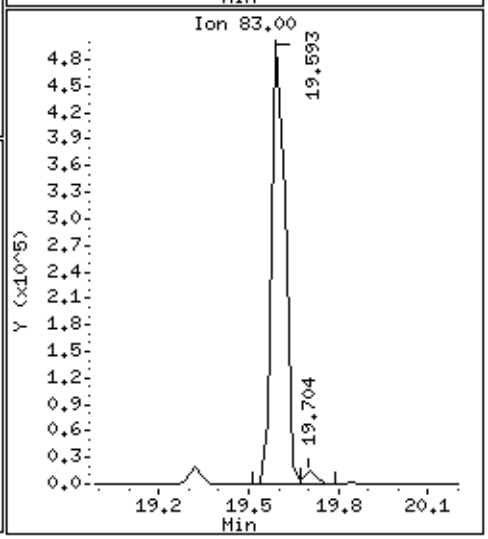












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

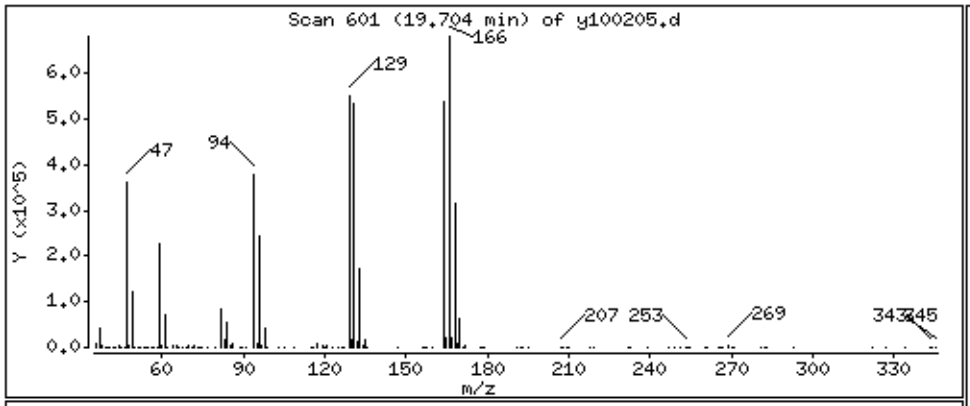
Operator: kr

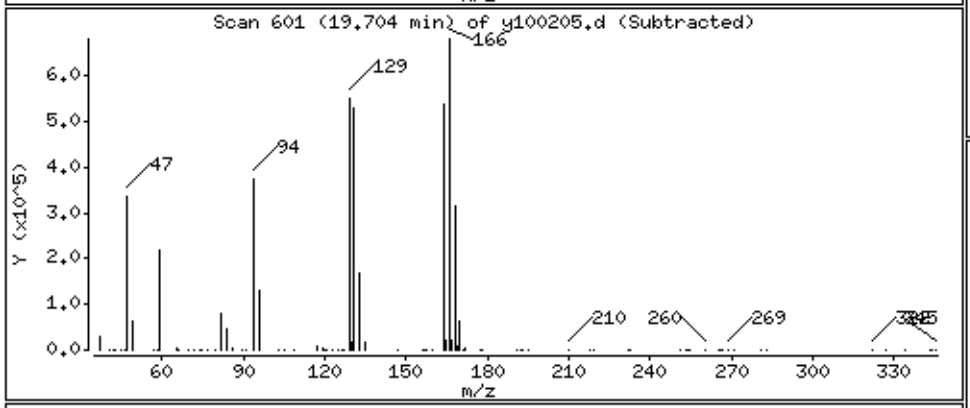
Column phase: RTx-624

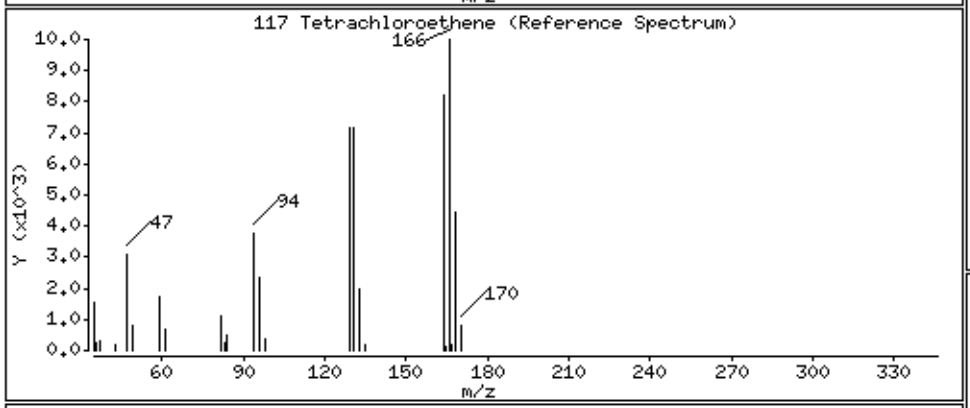
Column diameter: 0.53

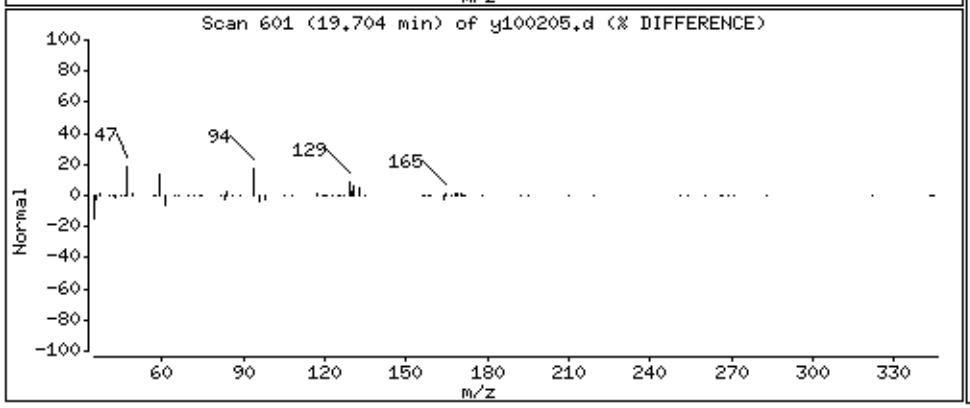
117 Tetrachloroethene

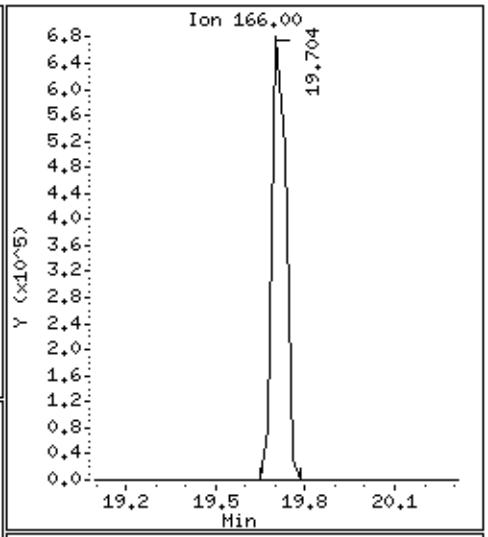
Concentration: 51.186 PPBV

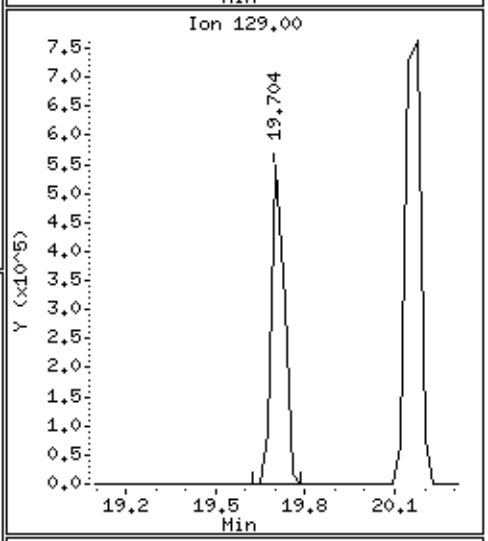


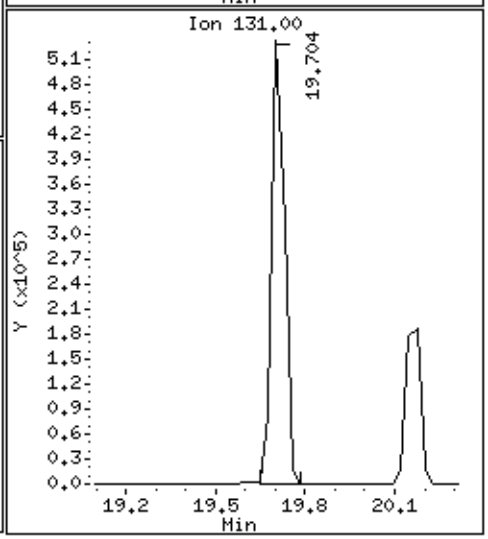












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

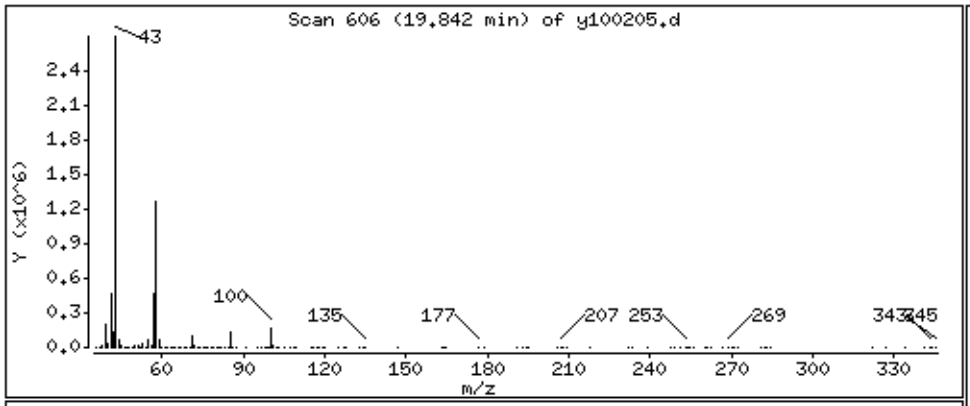
Operator: kr

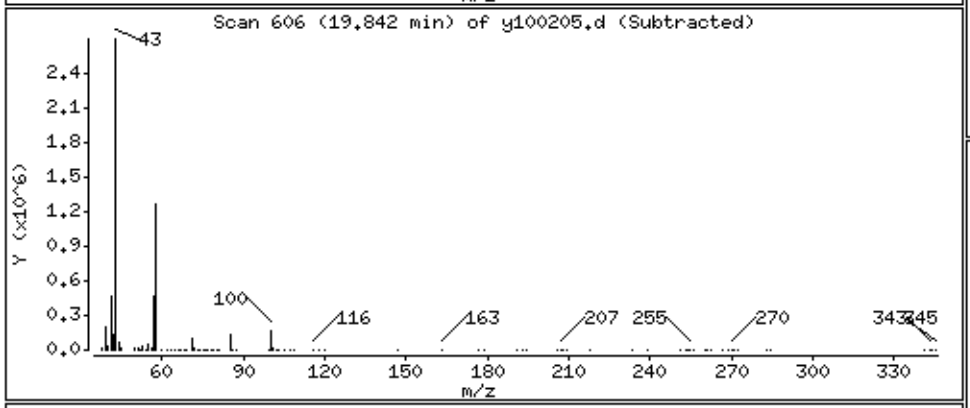
Column phase: RTx-624

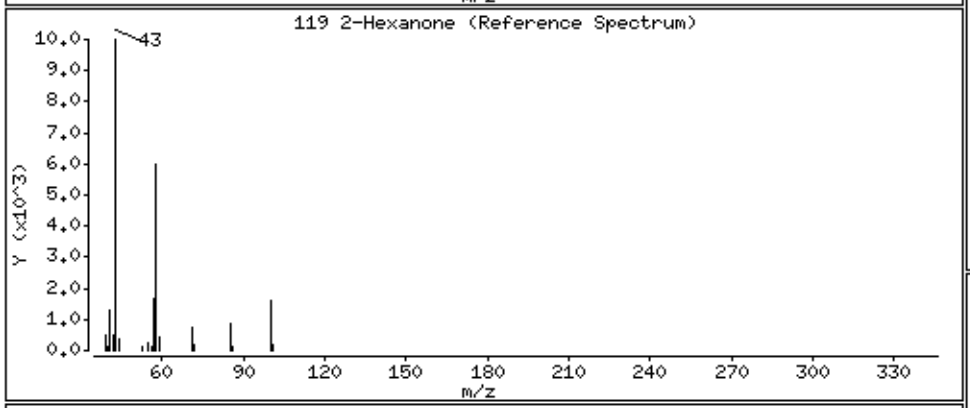
Column diameter: 0.53

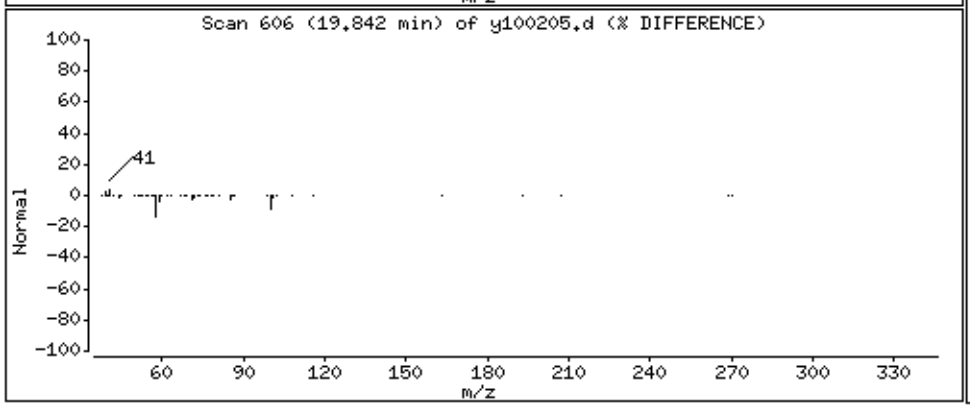
119 2-Hexanone

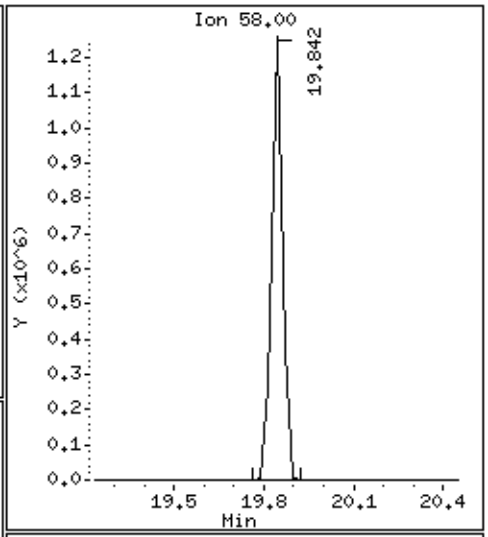
Concentration: 48.391 PPBV

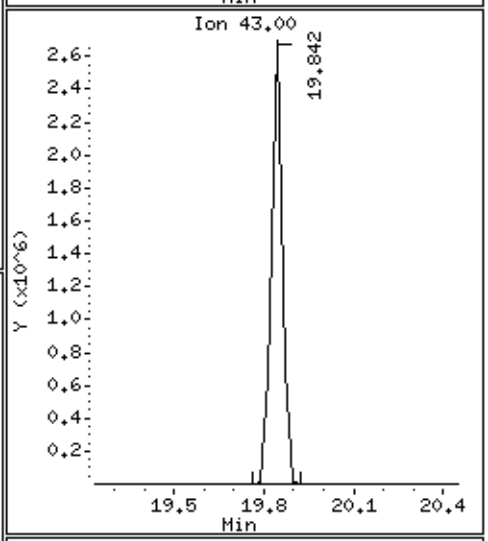


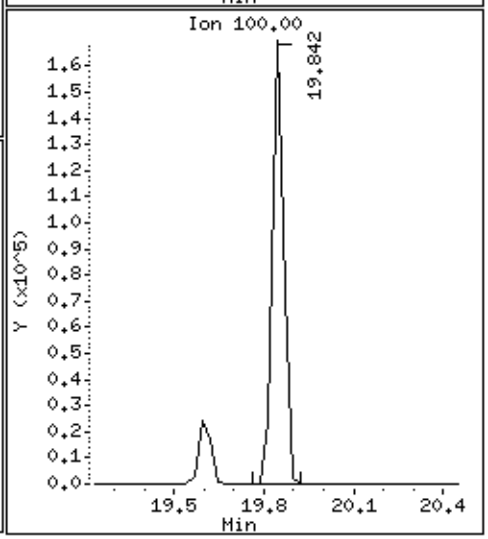












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

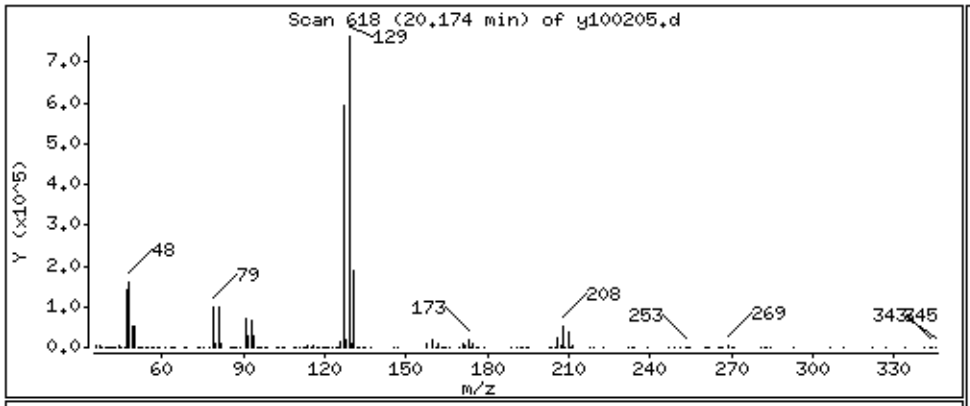
Operator: kr

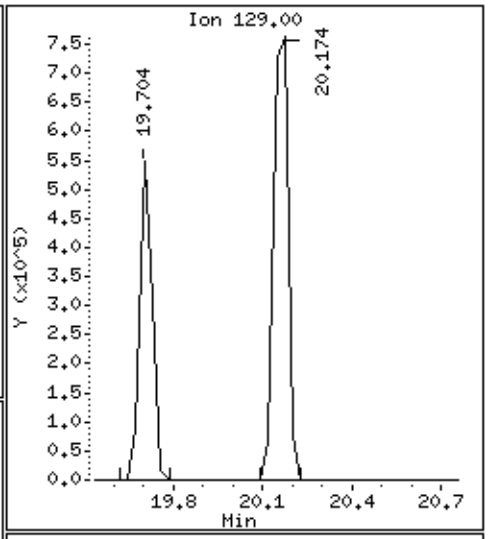
Column phase: RTx-624

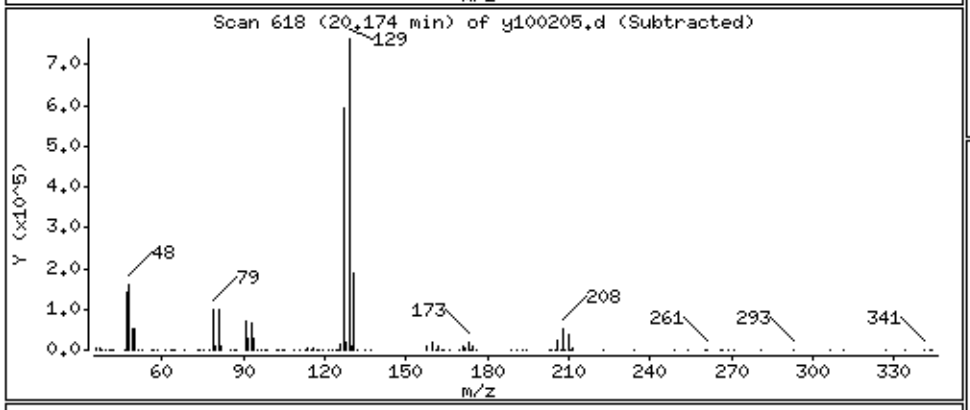
Column diameter: 0.53

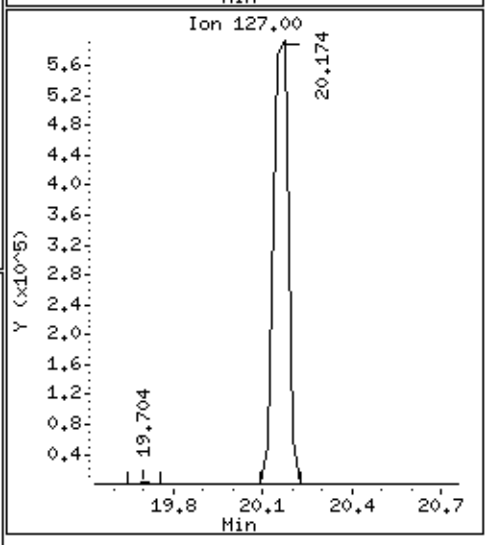
121 Dibromochloromethane

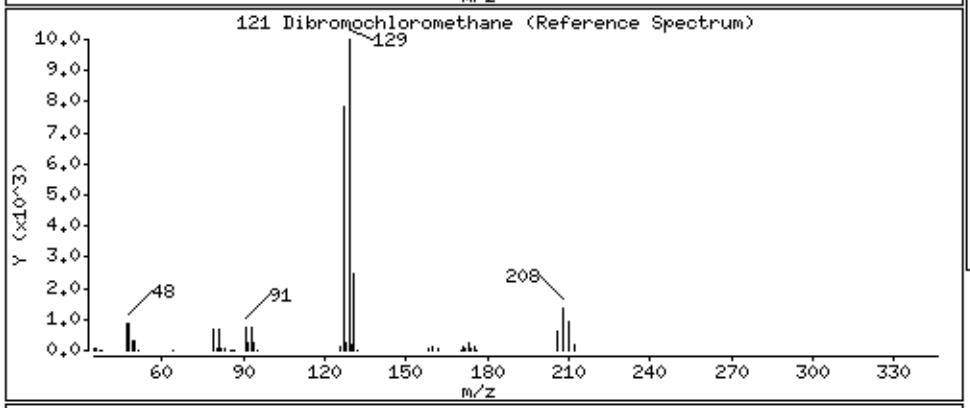
Concentration: 50.873 PPBV

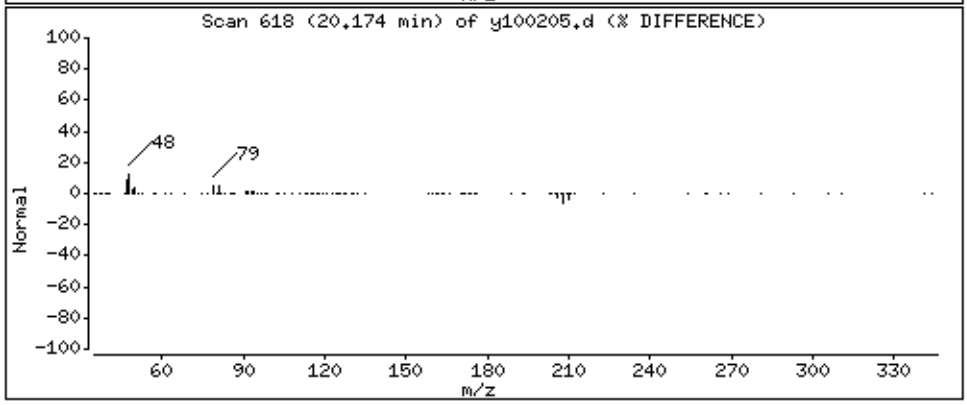












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

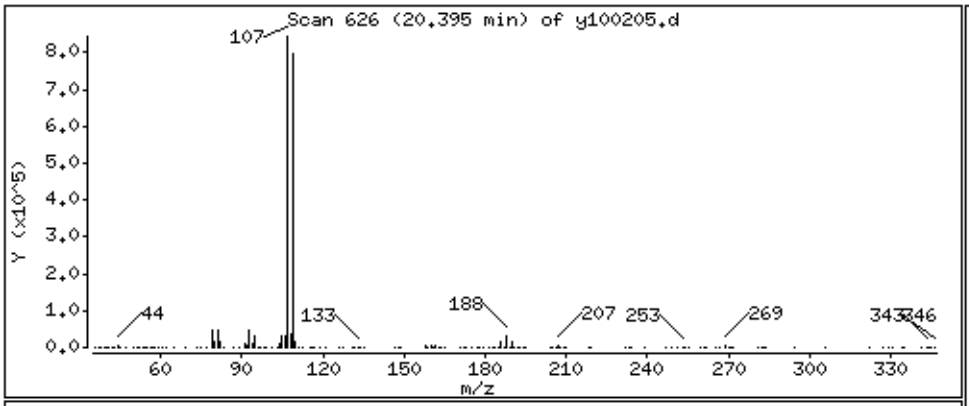
Operator: kr

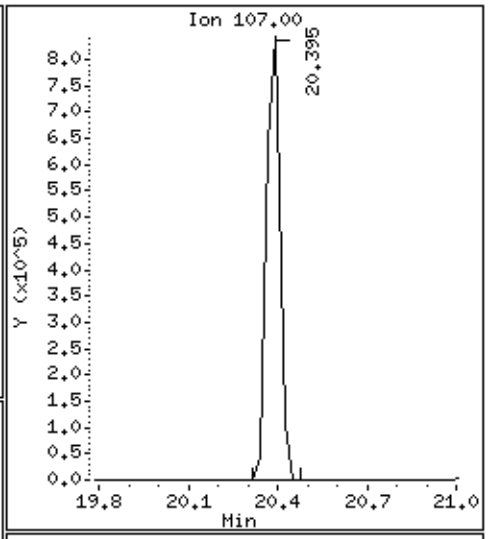
Column phase: RTx-624

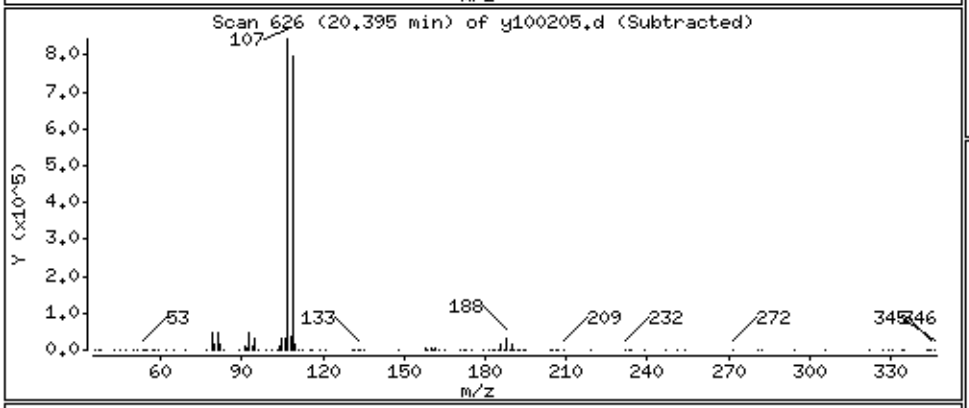
Column diameter: 0.53

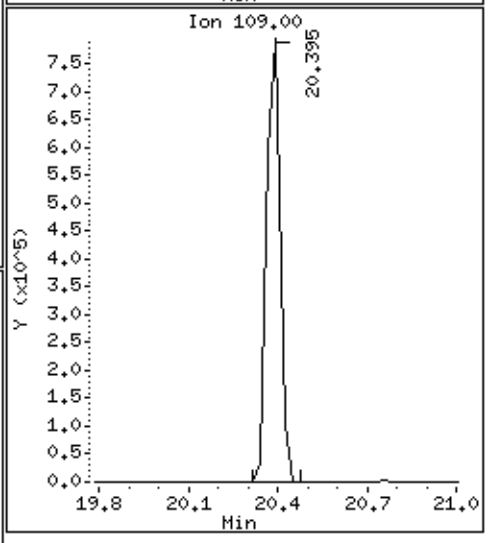
122 1,2-Dibromoethane

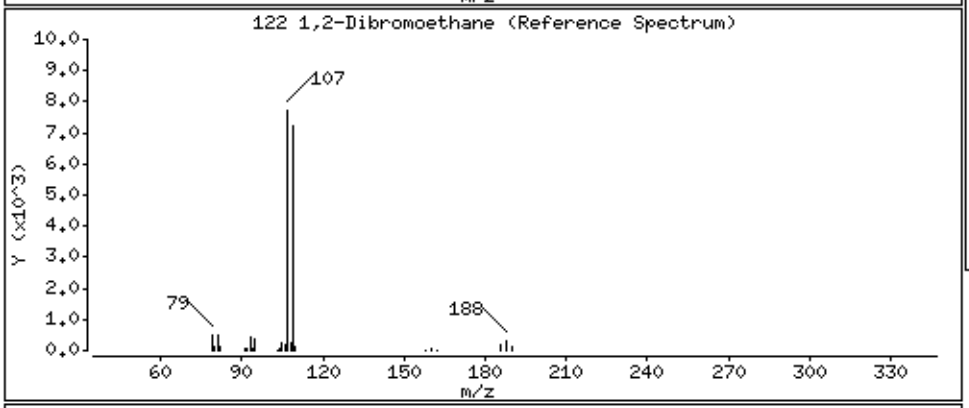
Concentration: 48.592 PPBV

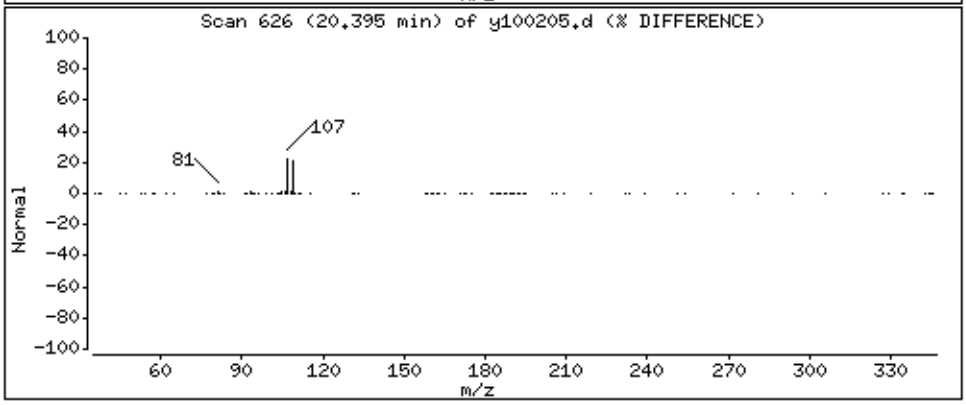












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

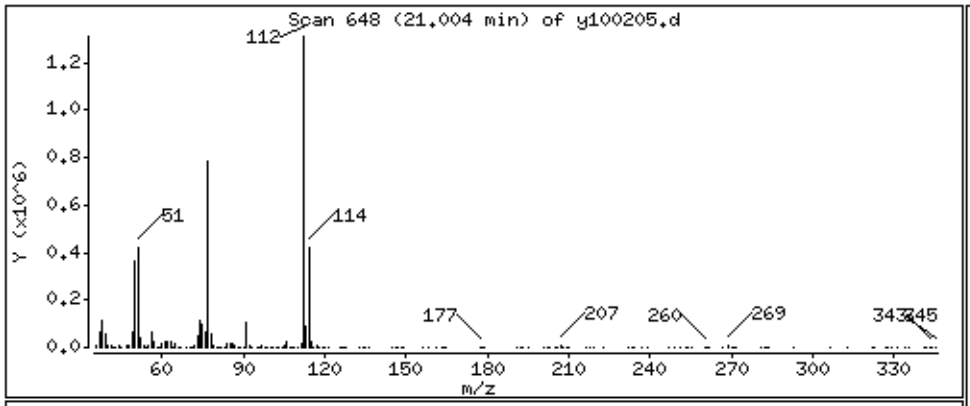
Operator: kr

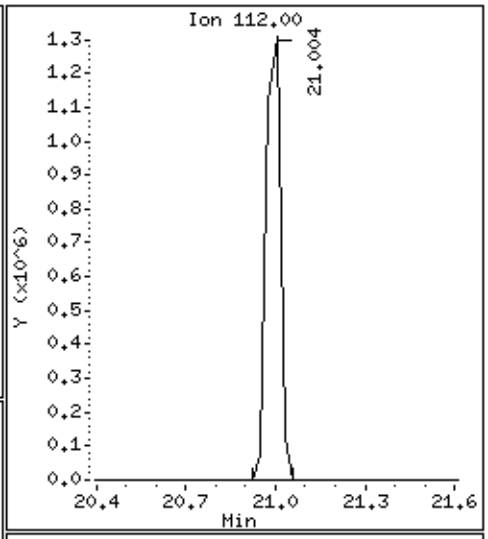
Column phase: RTx-624

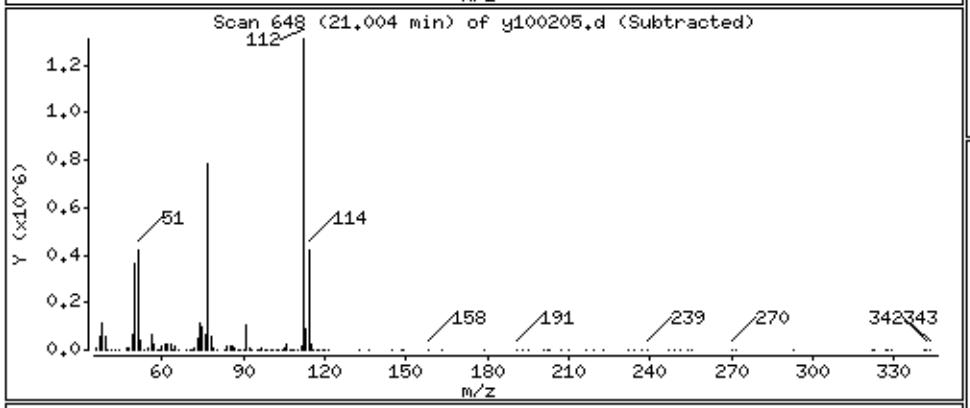
Column diameter: 0.53

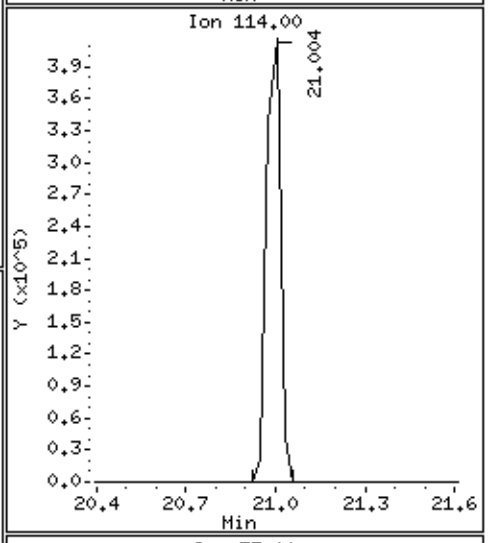
124 Chlorobenzene

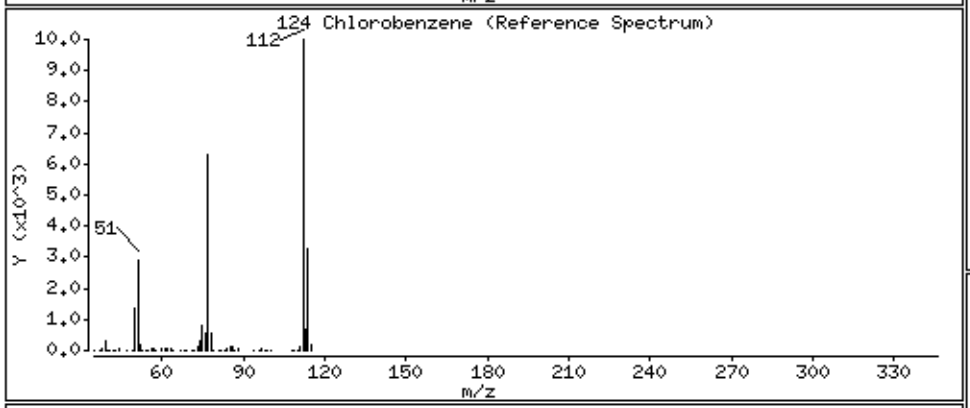
Concentration: 48.963 PPBV

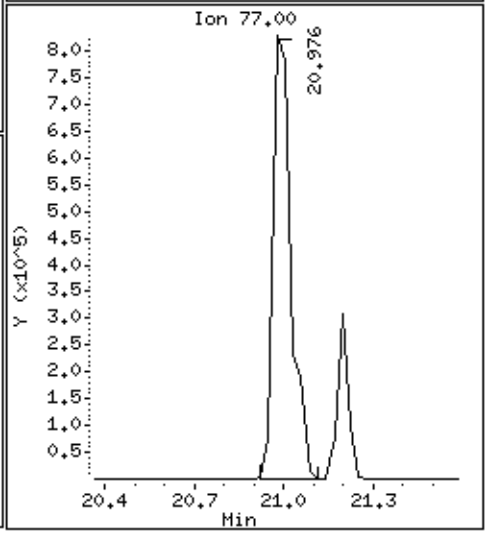


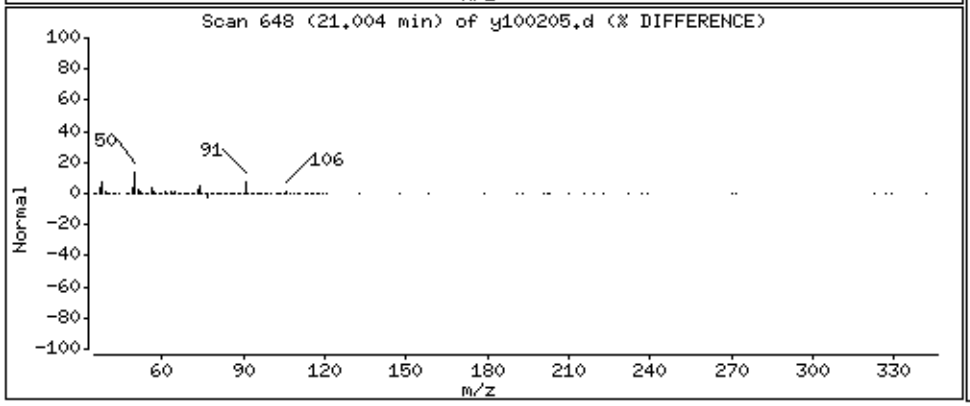












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

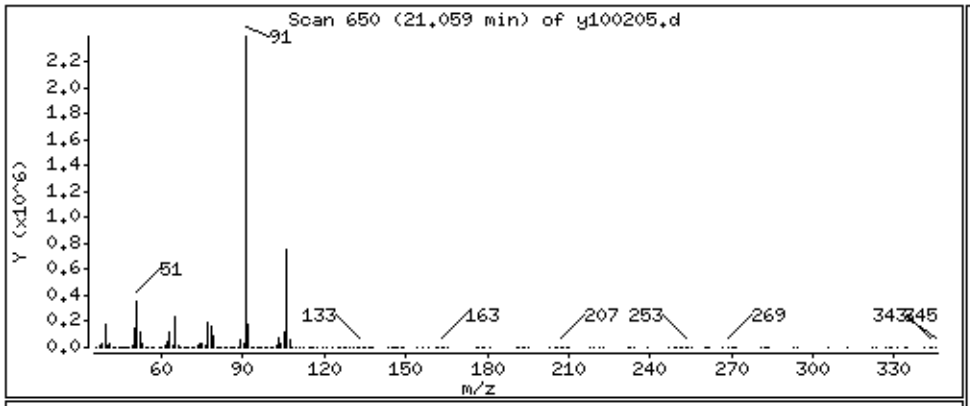
Operator: kr

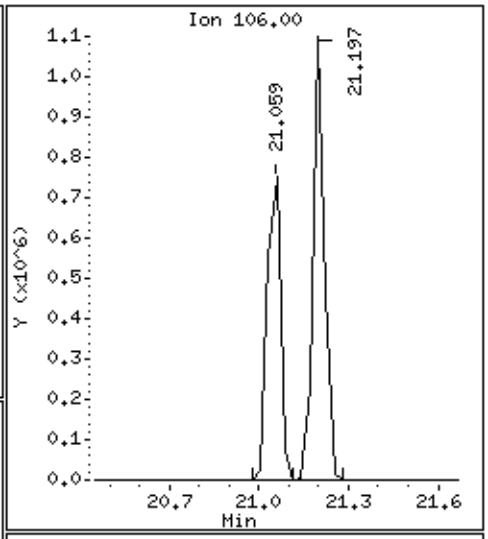
Column phase: RTx-624

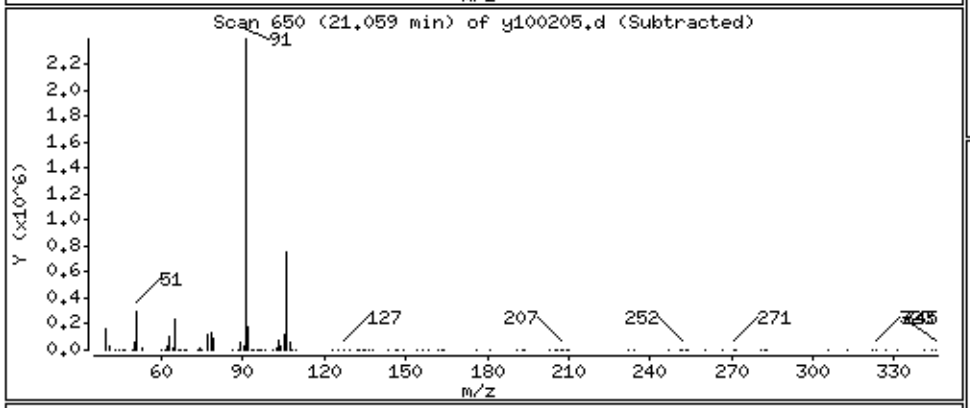
Column diameter: 0.53

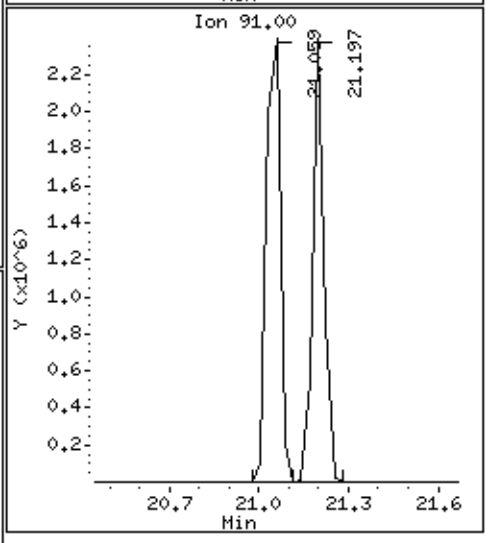
125 Ethyl Benzene

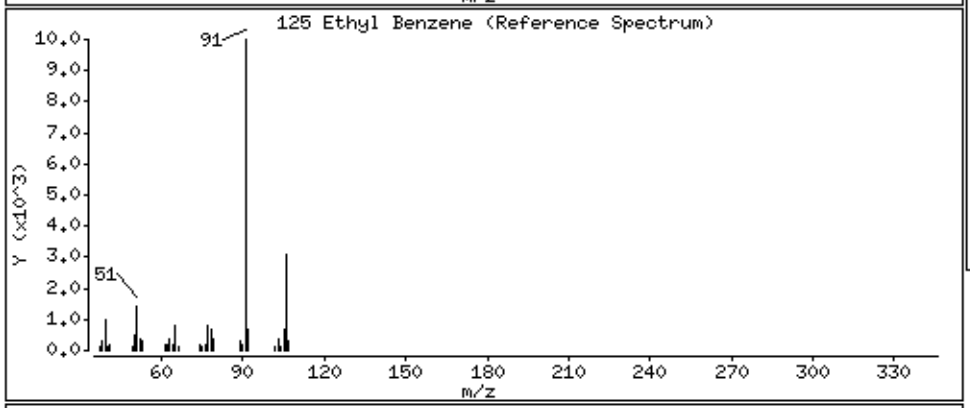
Concentration: 49.396 PPBV

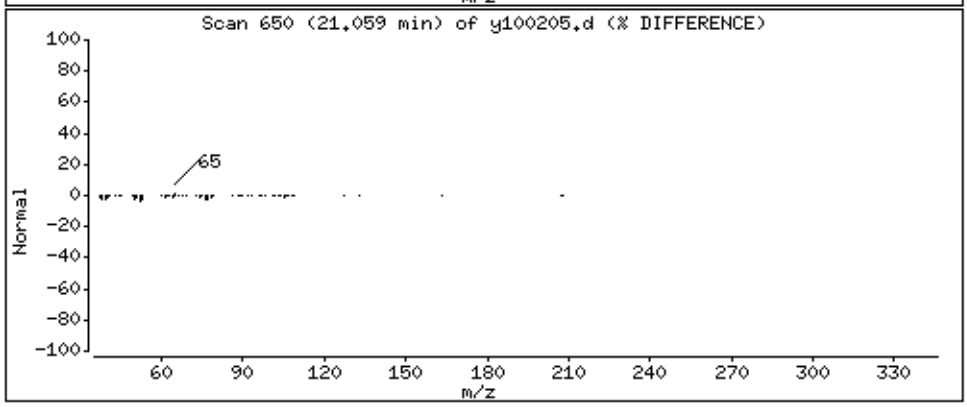












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

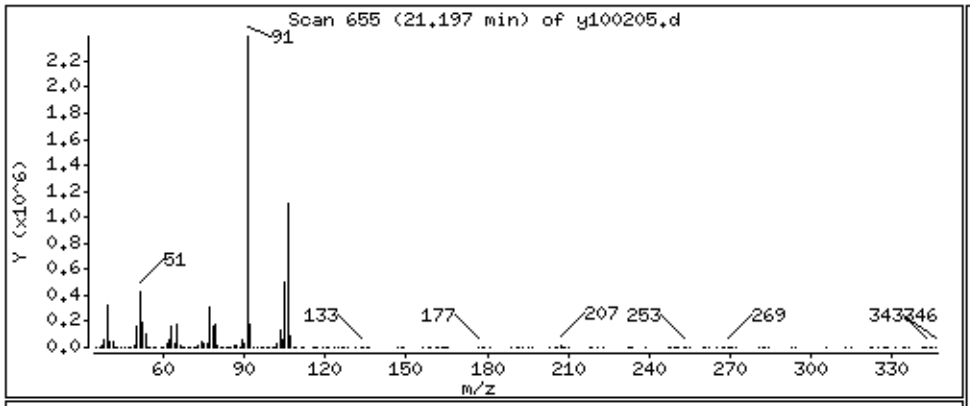
Operator: kr

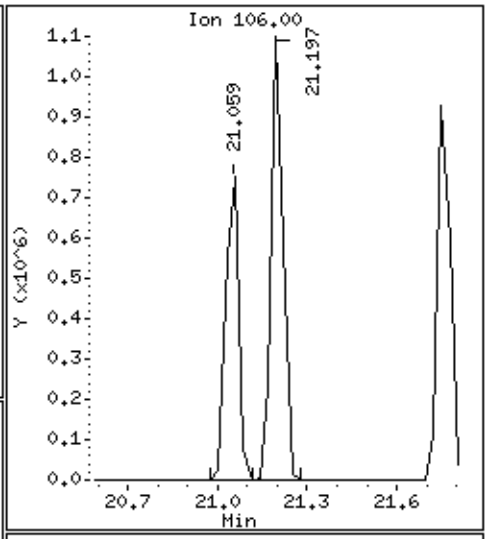
Column phase: RTx-624

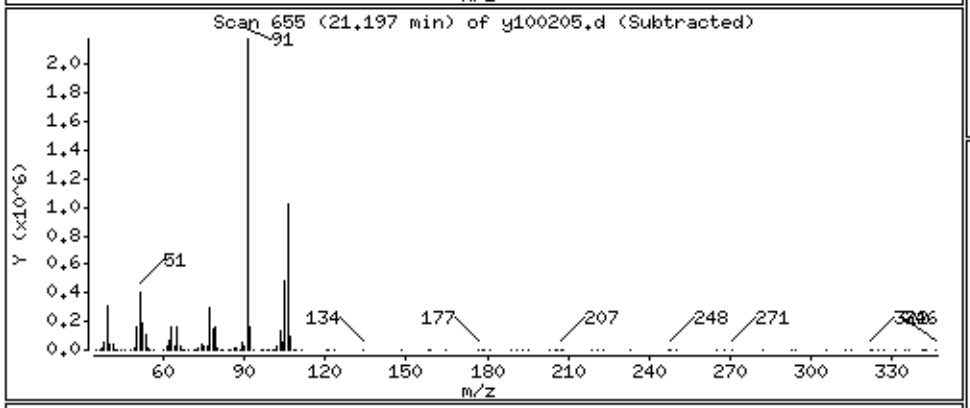
Column diameter: 0.53

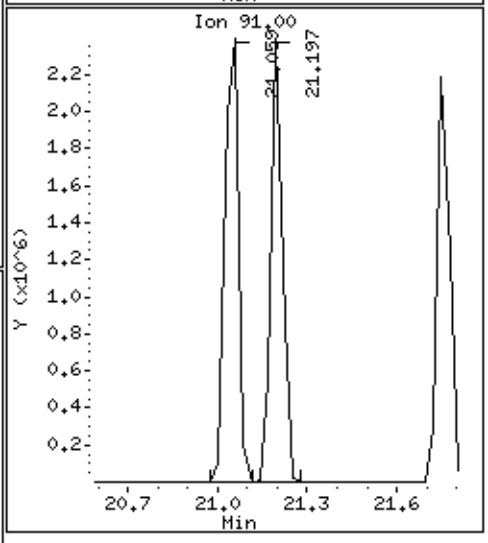
128 m,p-Xylene

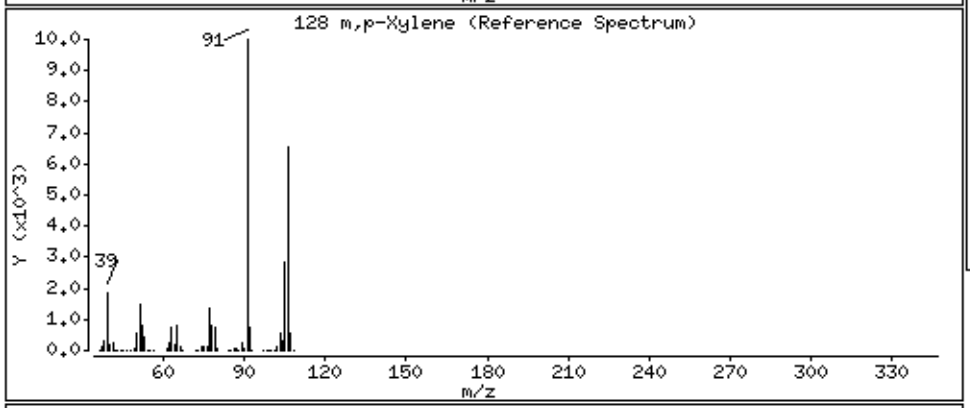
Concentration: 50.270 PPBV

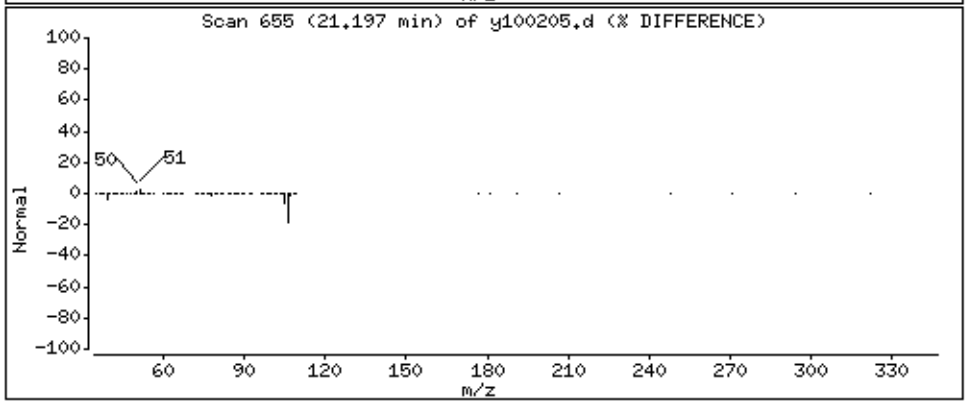












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

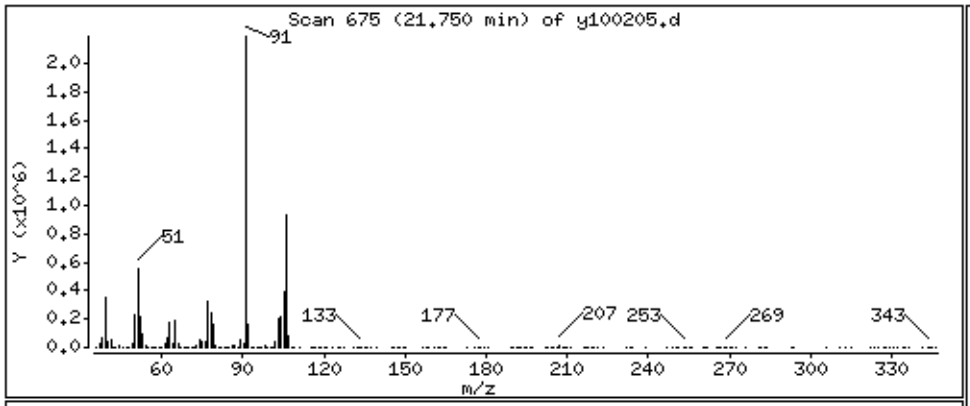
Operator: kr

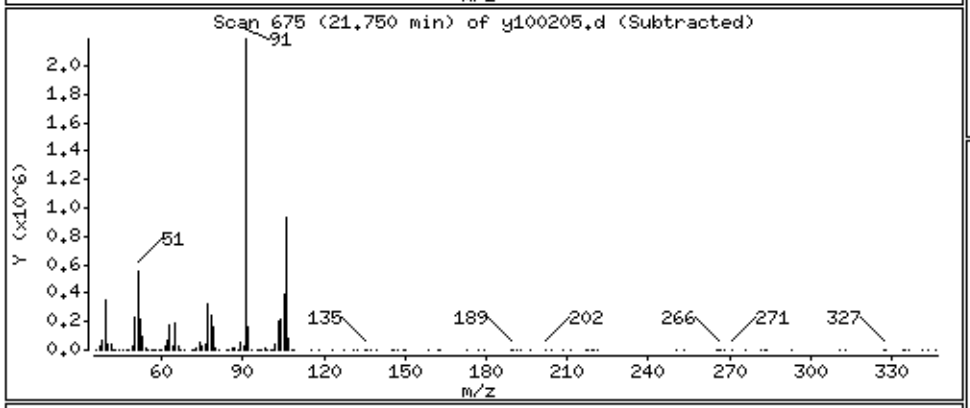
Column phase: RTx-624

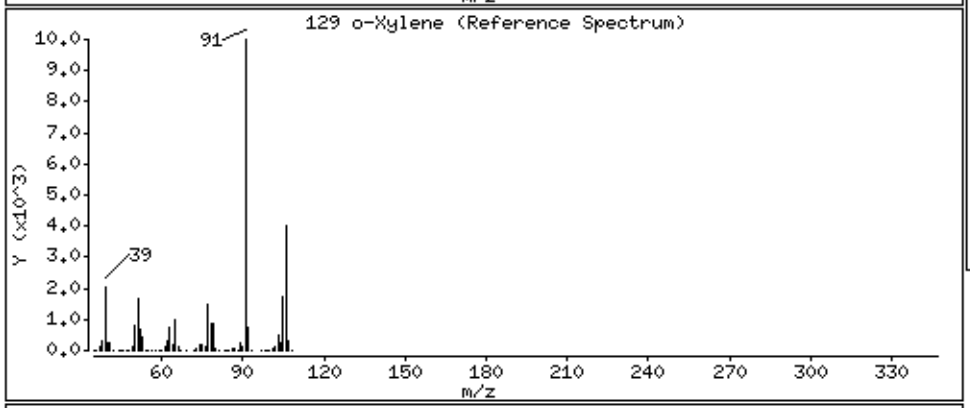
Column diameter: 0.53

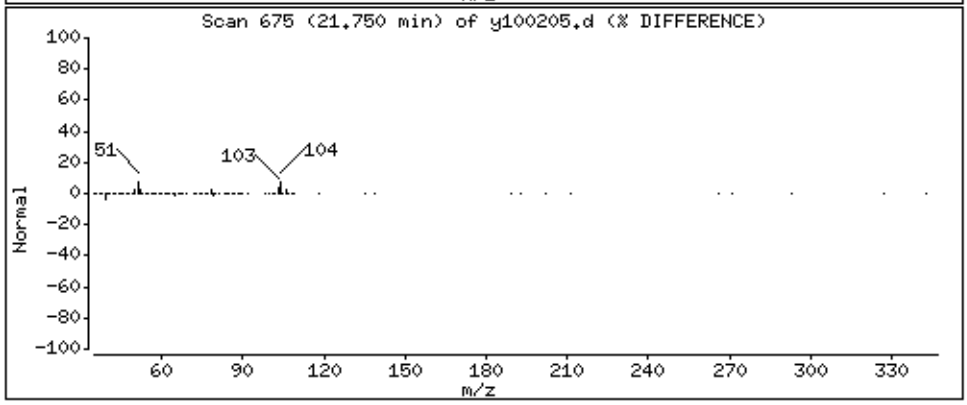
129 o-Xylene

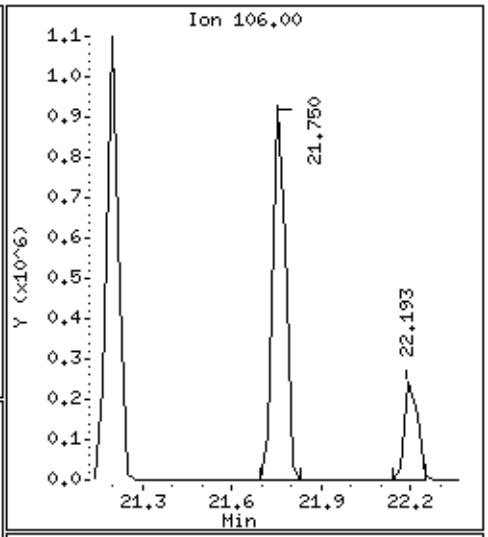
Concentration: 51.170 PPBV

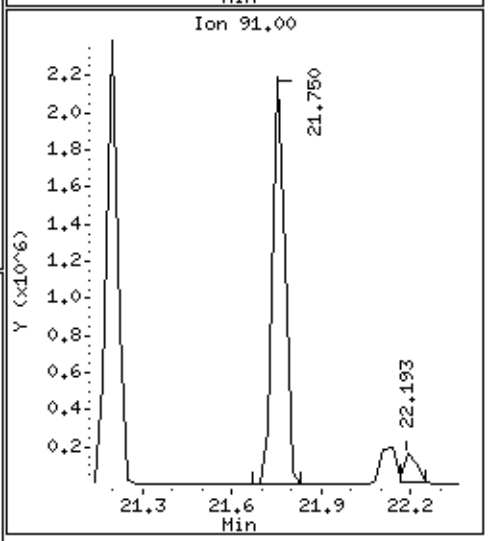












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

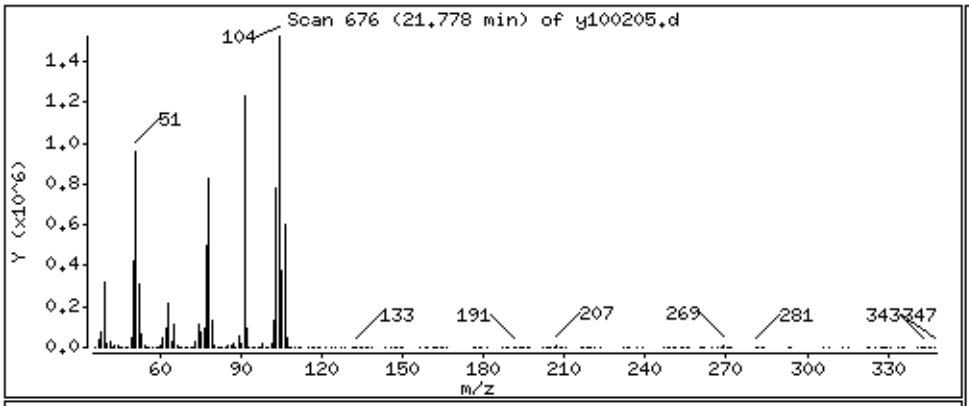
Operator: kr

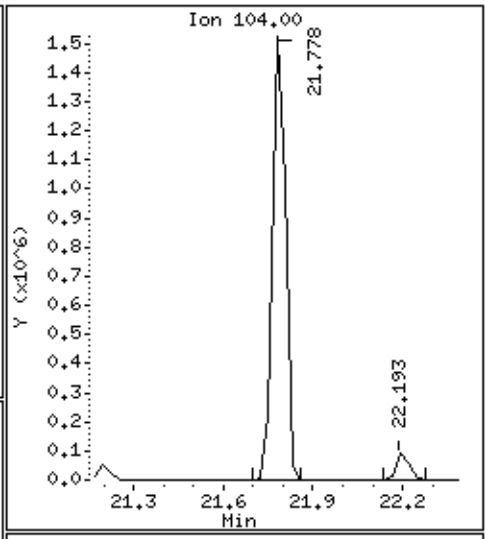
Column phase: RTx-624

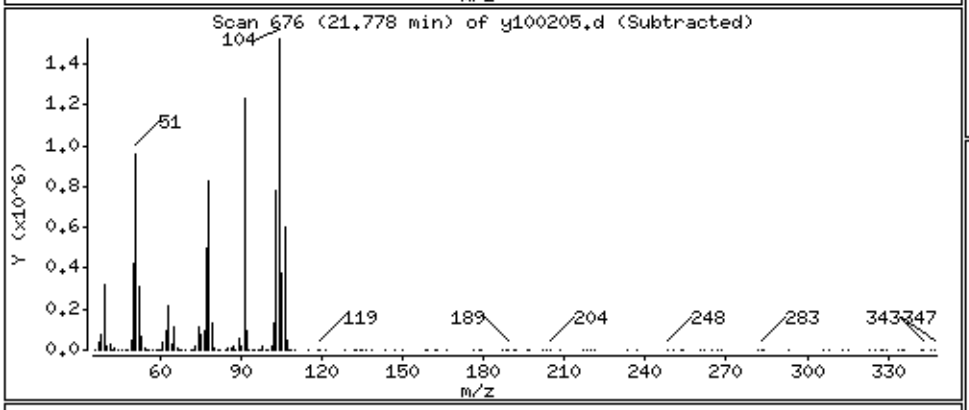
Column diameter: 0.53

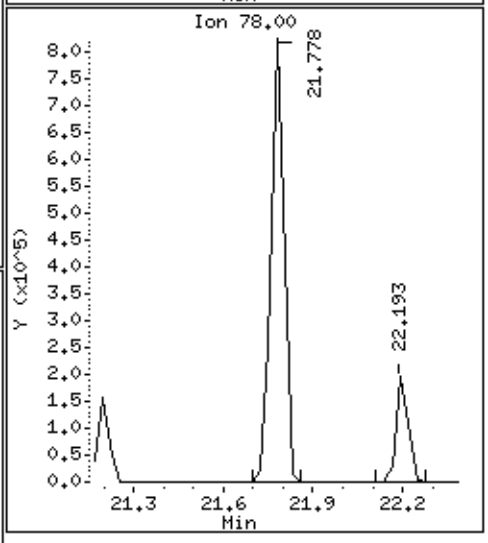
130 Styrene

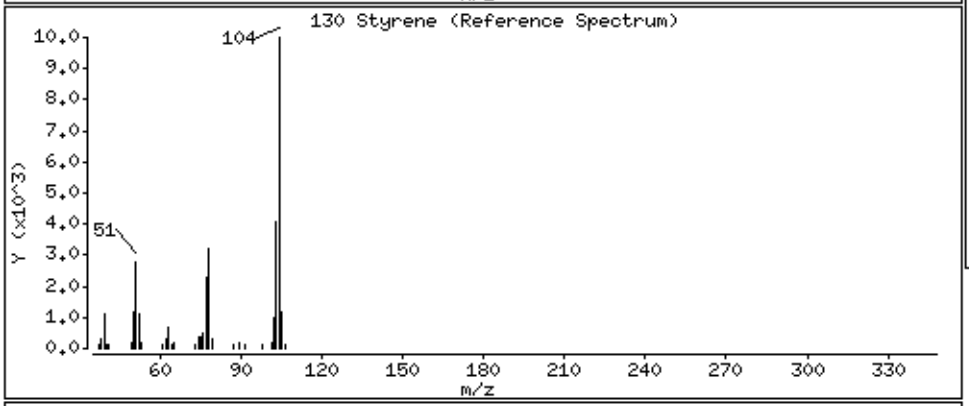
Concentration: 49.937 PPBV

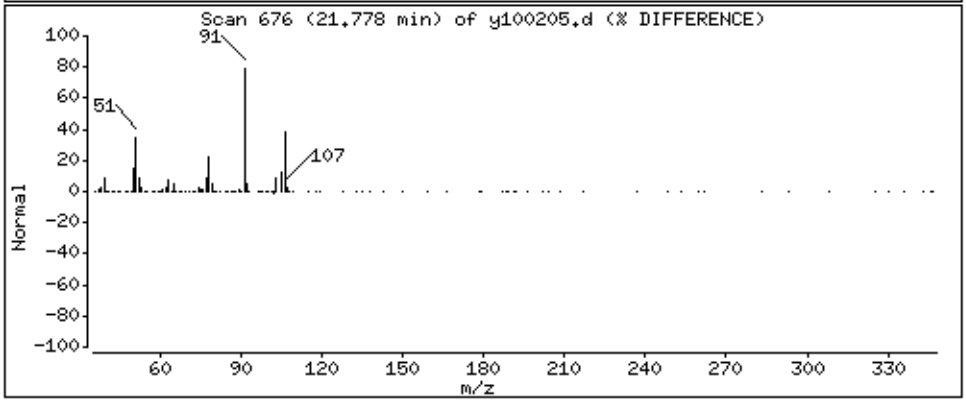












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

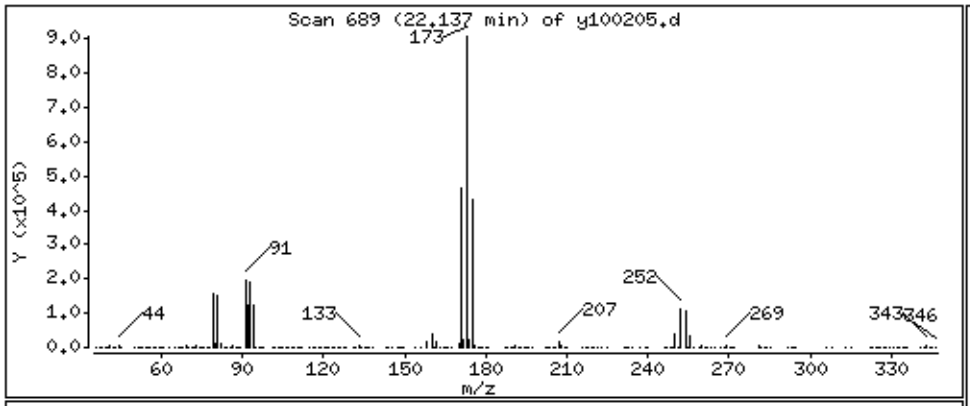
Operator: kr

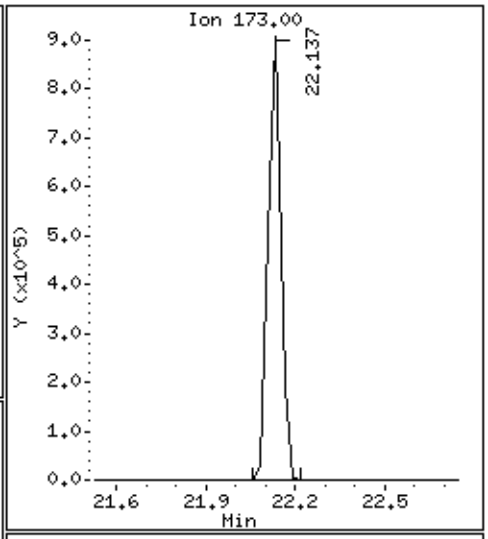
Column phase: RTx-624

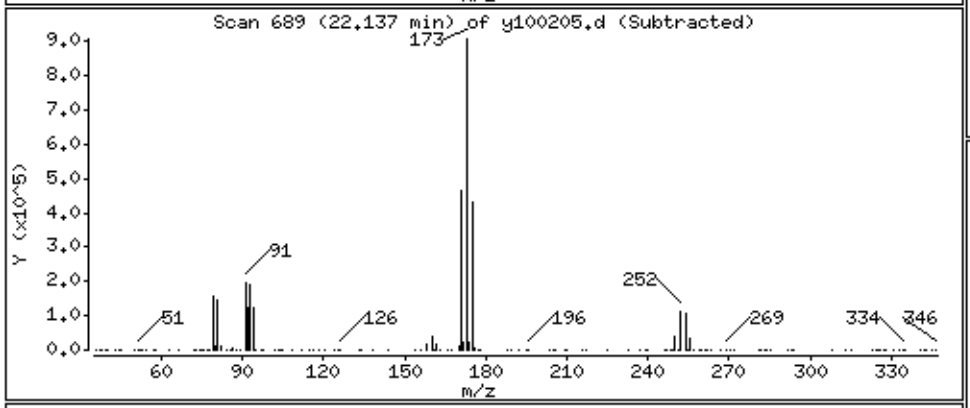
Column diameter: 0.53

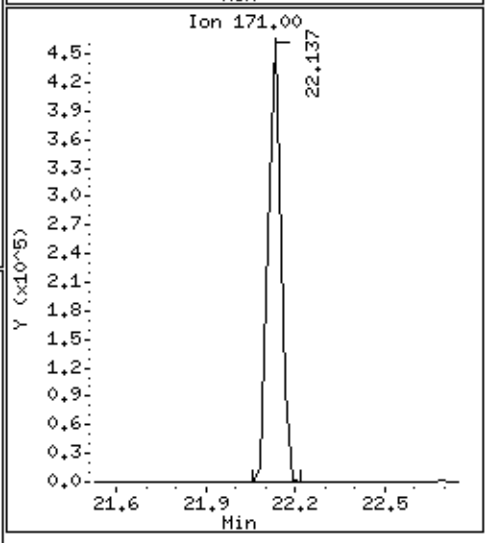
132 Bromoform

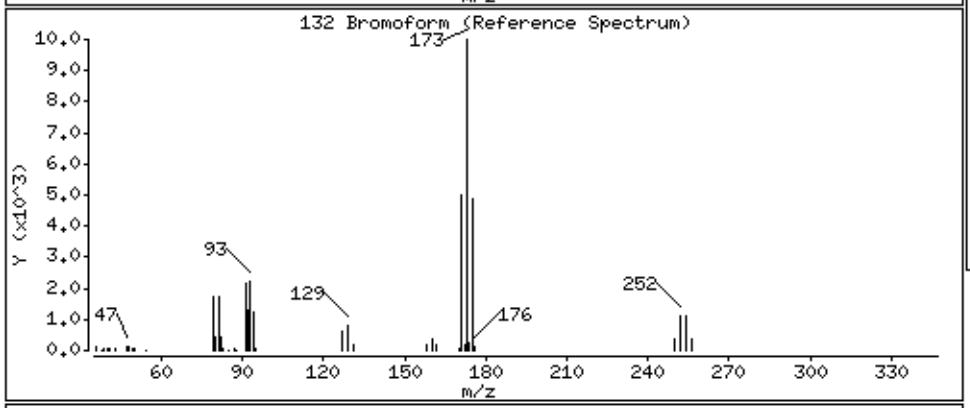
Concentration: 53.874 PPBV

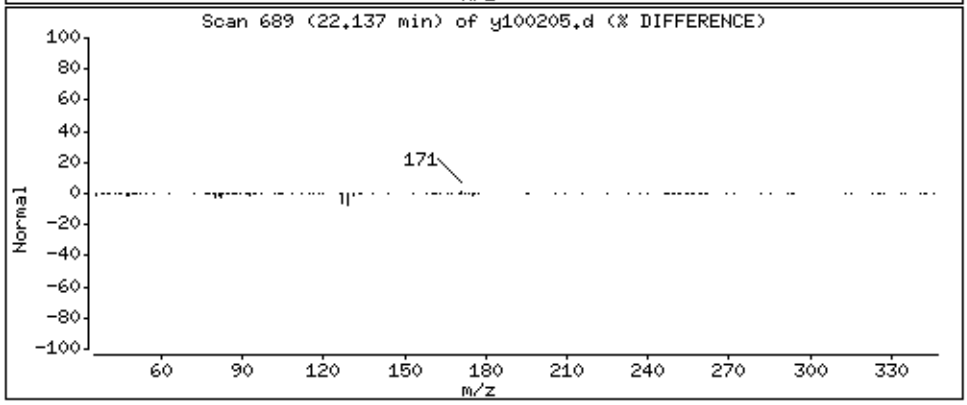












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

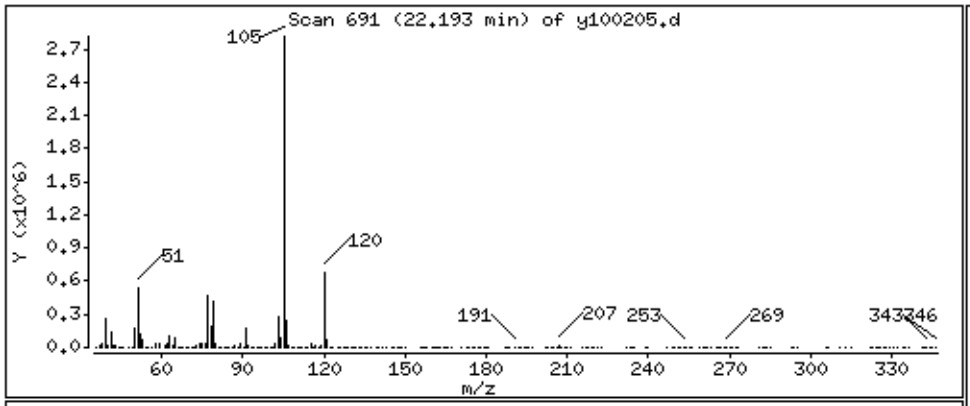
Operator: kr

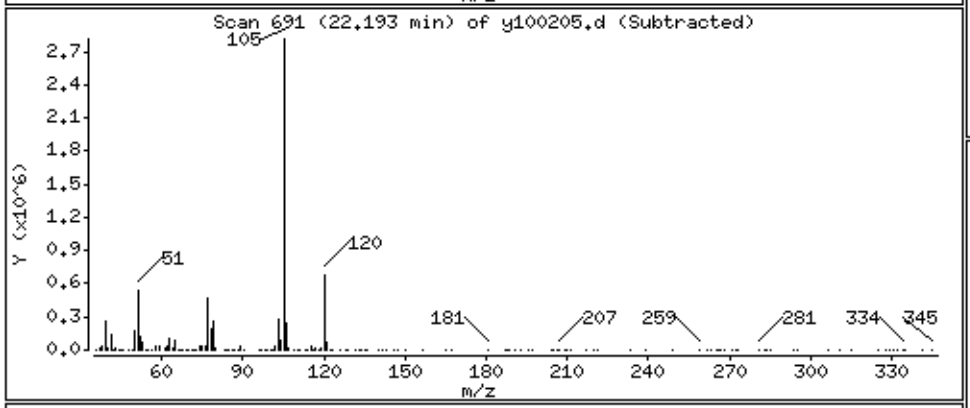
Column phase: RTx-624

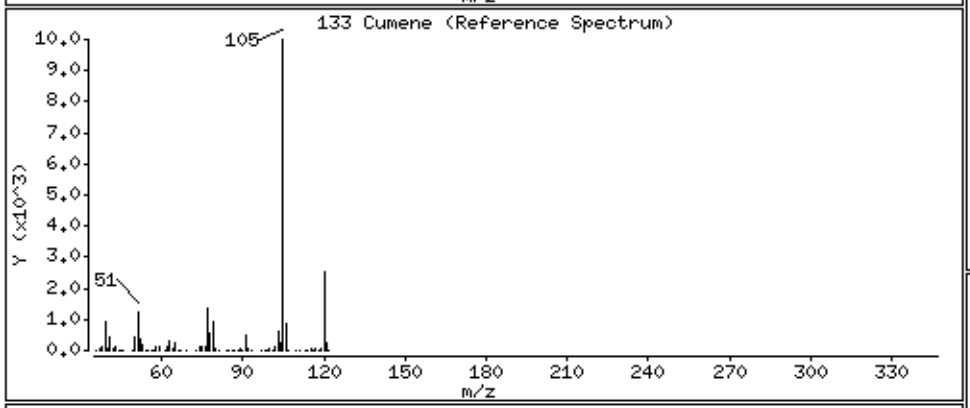
Column diameter: 0.53

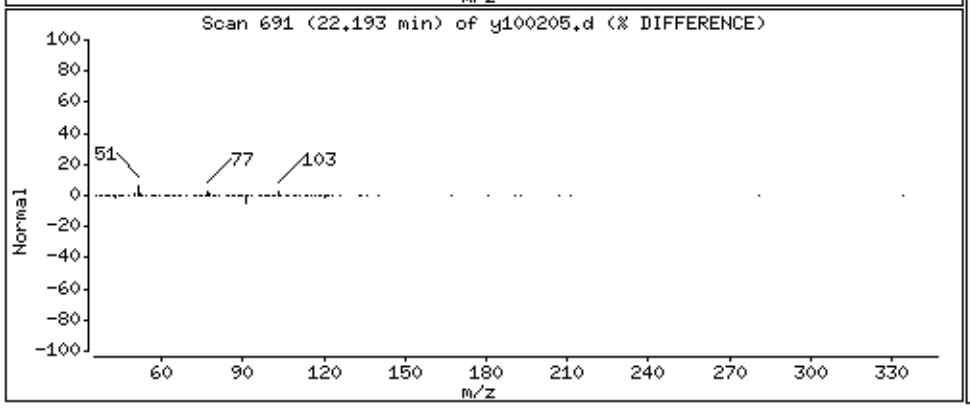
133 Cumene

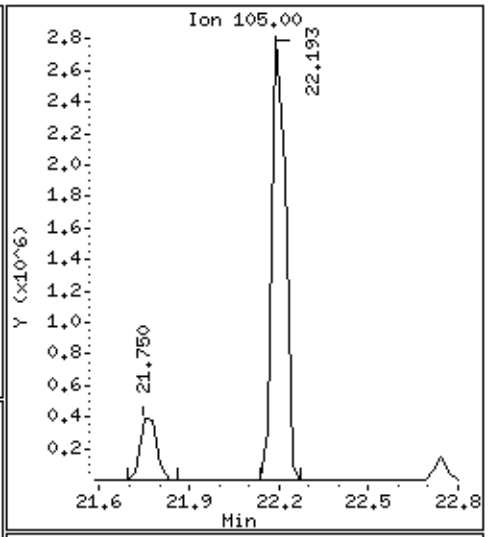
Concentration: 49.744 PPBV

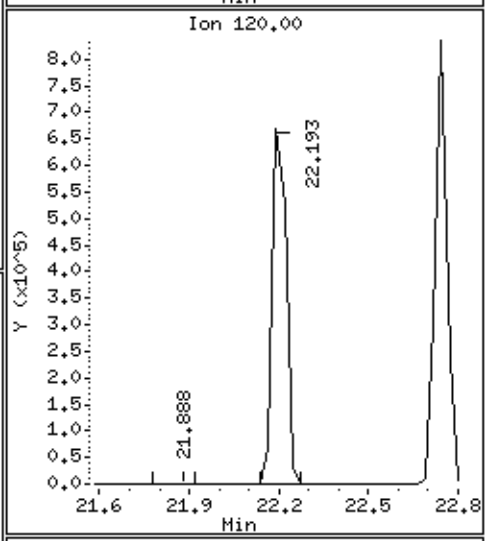


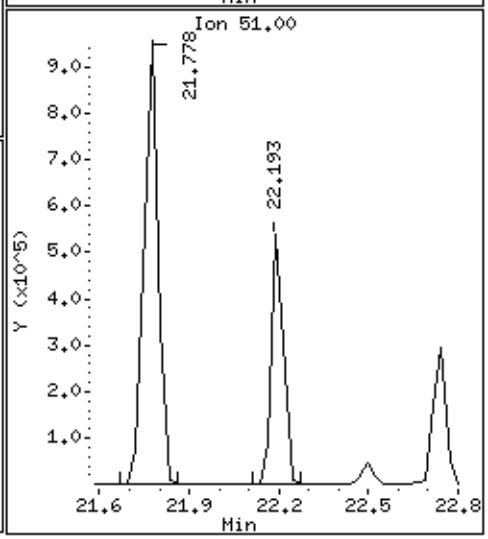












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

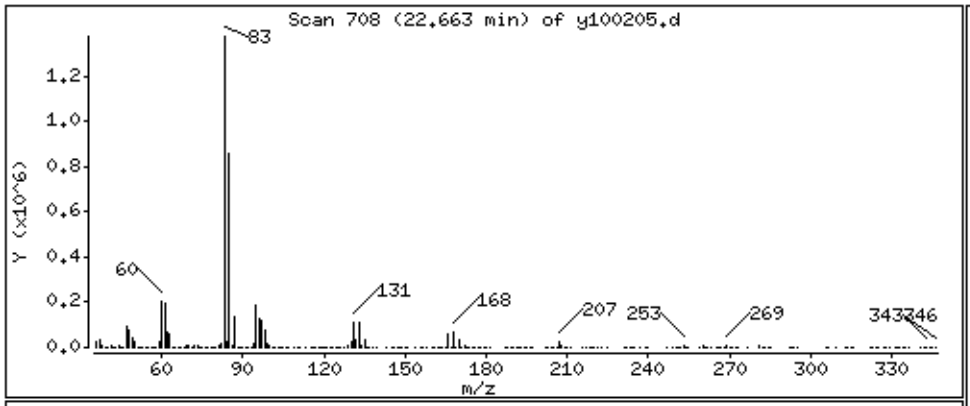
Operator: kr

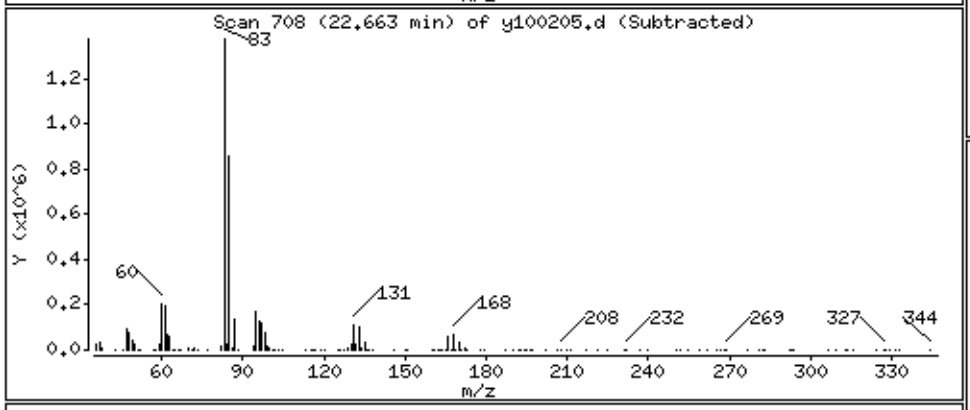
Column phase: RTx-624

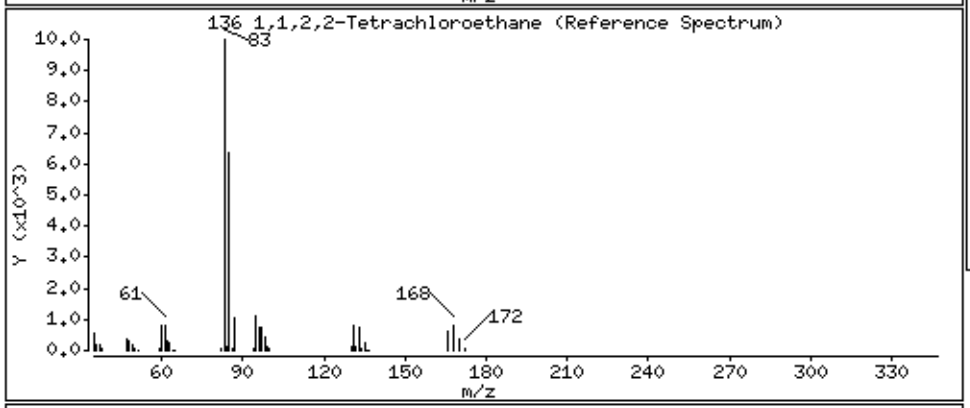
Column diameter: 0.53

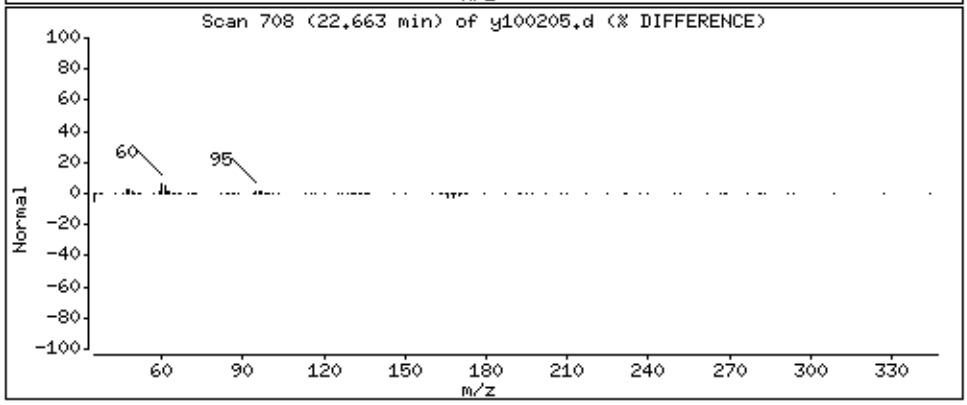
136 1,1,2,2-Tetrachloroethane

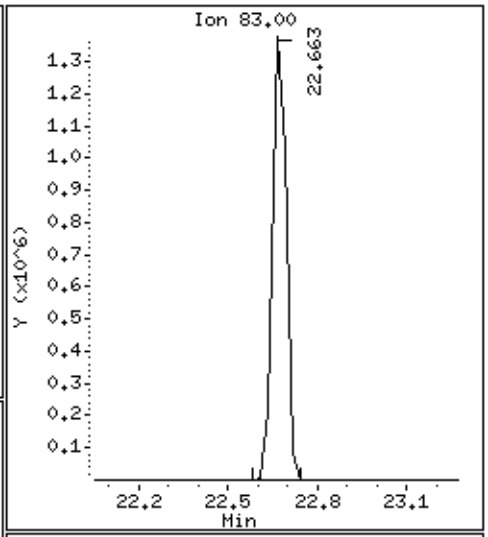
Concentration: 56.973 PPBV

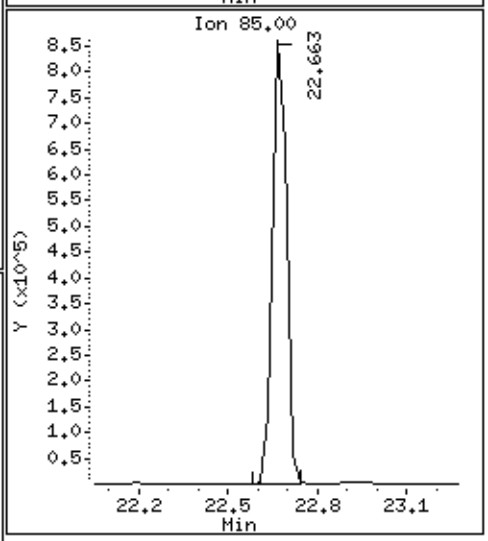












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

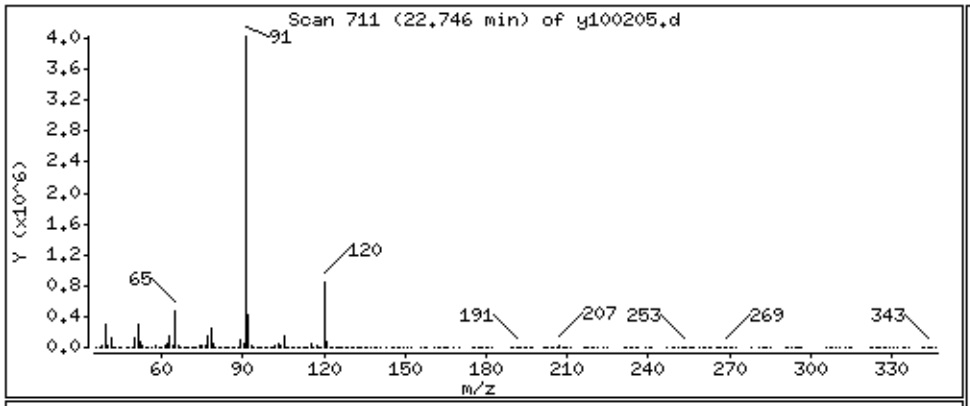
Operator: kr

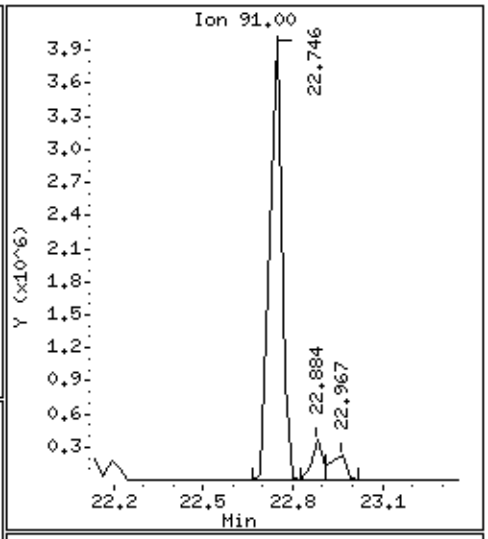
Column phase: RTx-624

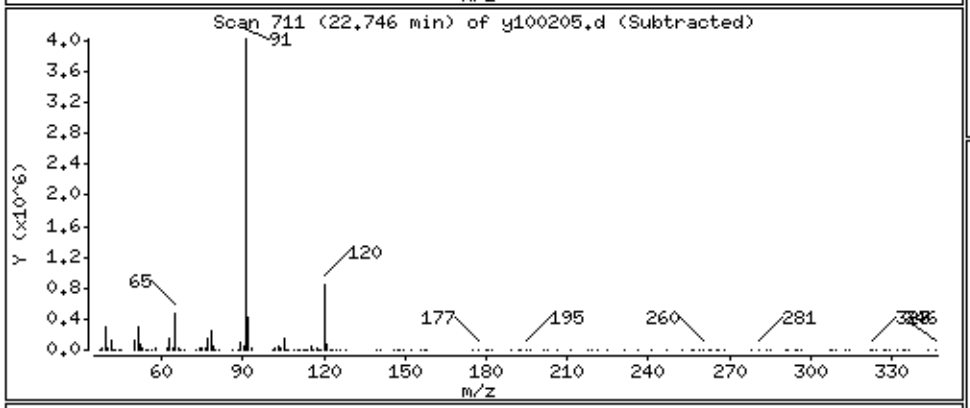
Column diameter: 0.53

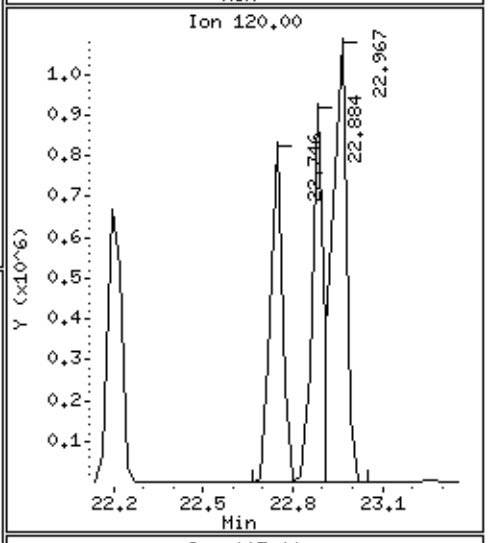
139 Propylbenzene

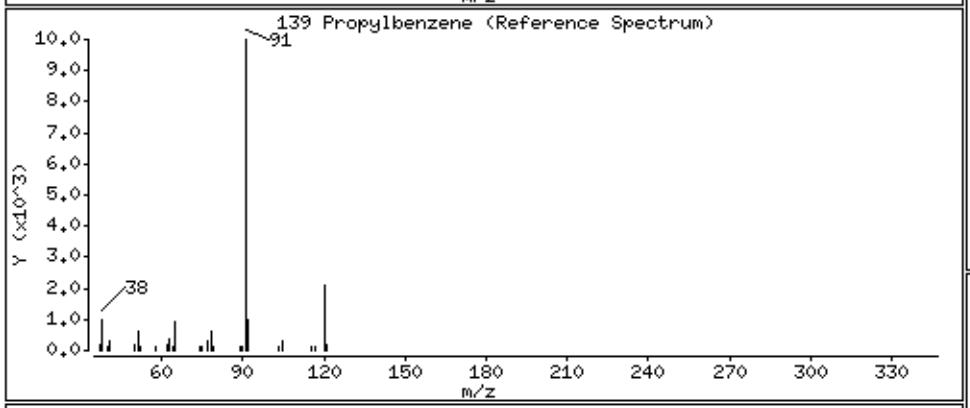
Concentration: 55.784 PPBV

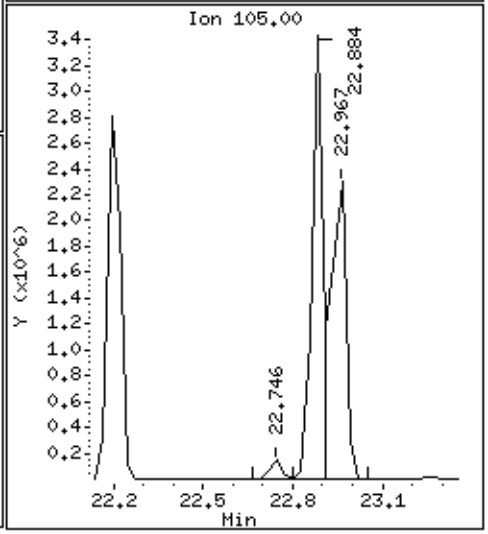


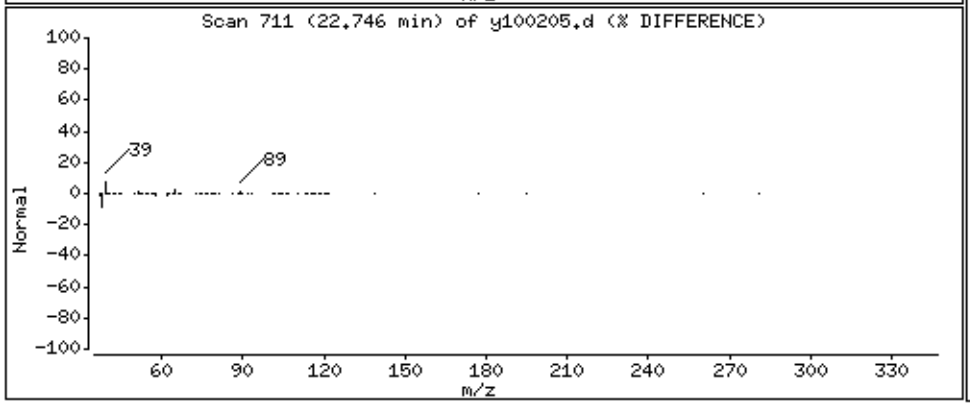












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

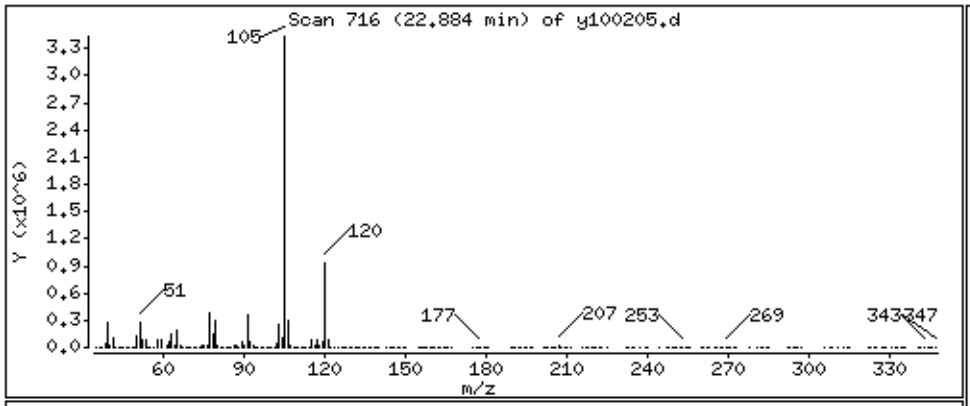
Operator: kr

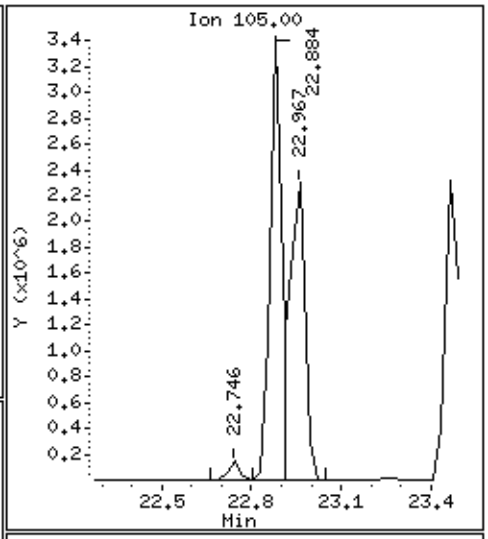
Column phase: RTx-624

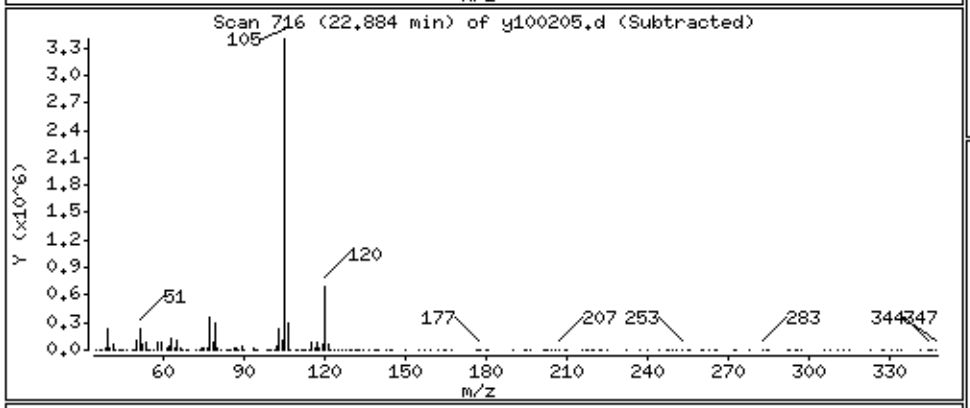
Column diameter: 0.53

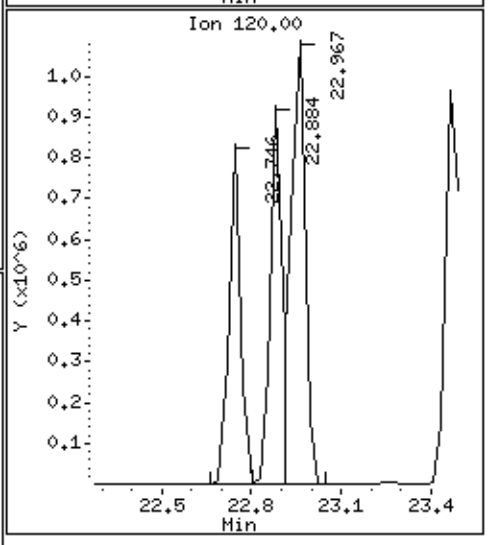
142 4-Ethyltoluene

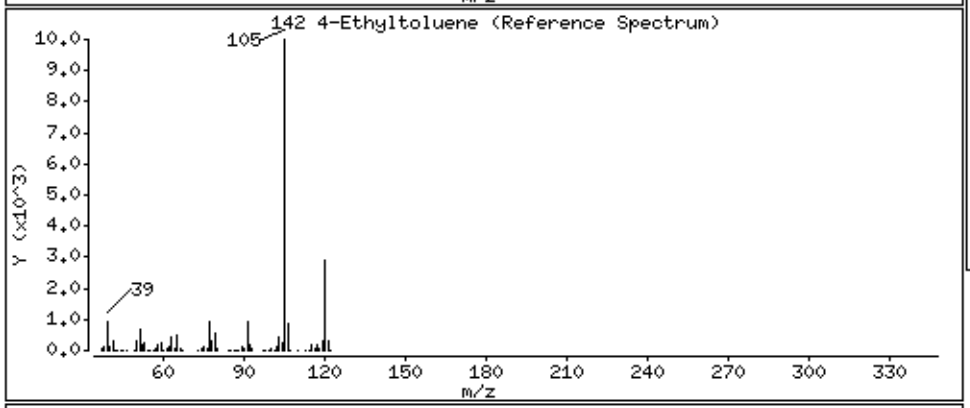
Concentration: 55.020 PPBV

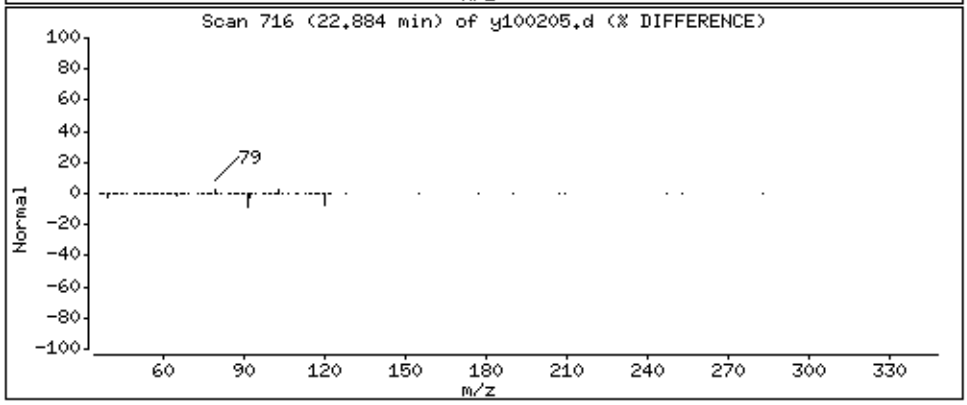












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

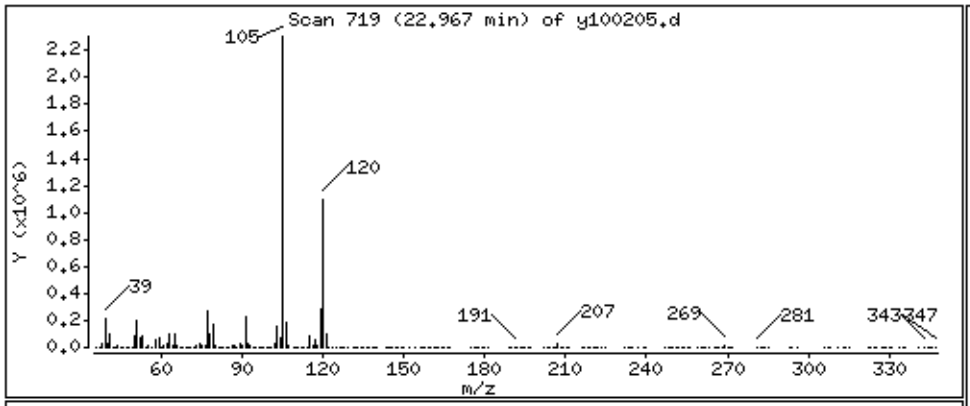
Operator: kr

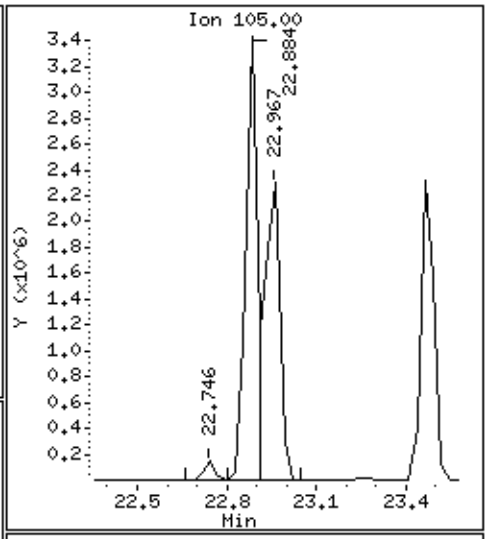
Column phase: RTx-624

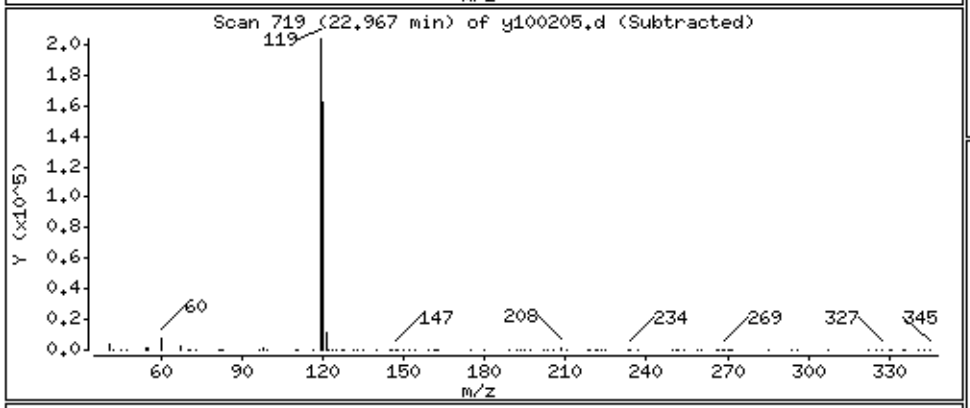
Column diameter: 0.53

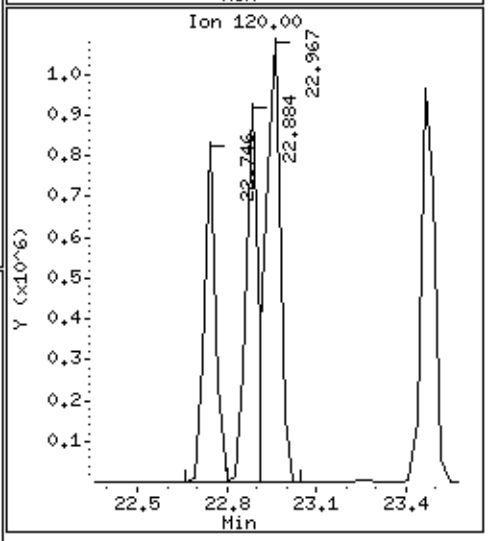
144 1,3,5-Trimethylbenzene

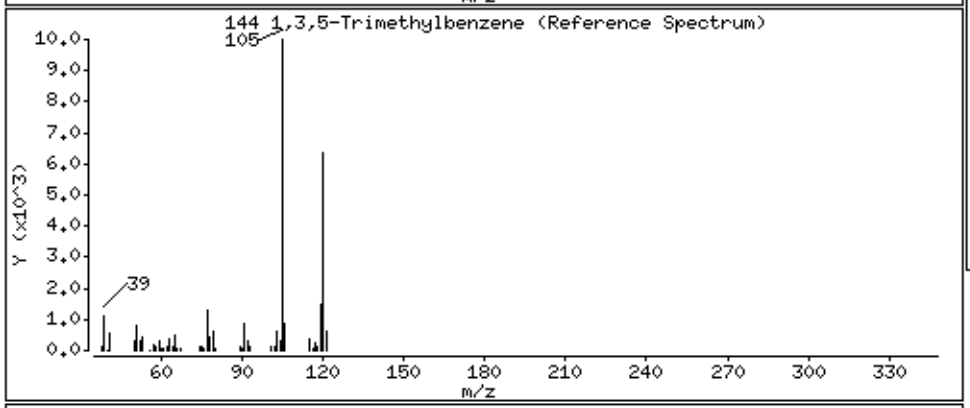
Concentration: 49.141 PPBV

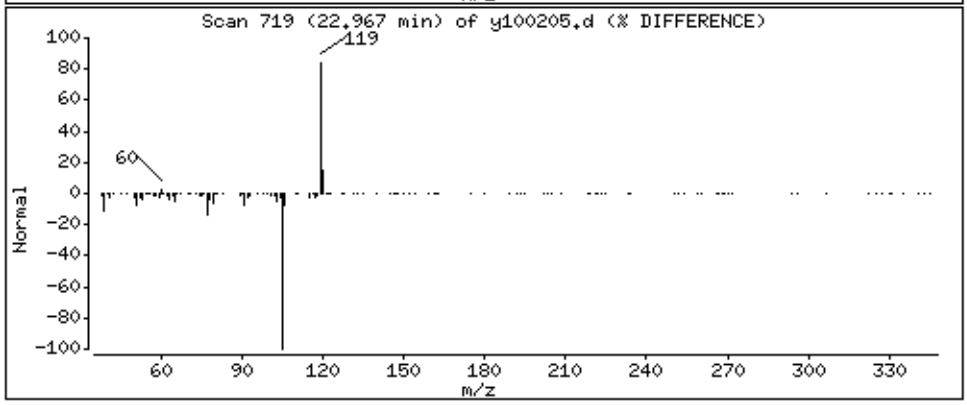












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

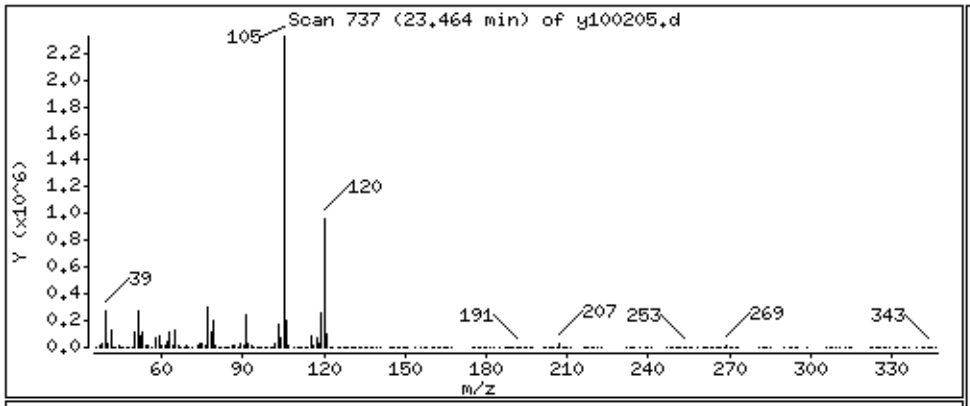
Operator: kr

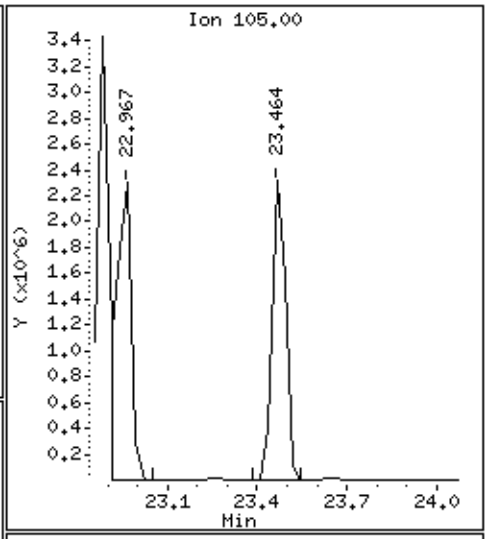
Column phase: RTx-624

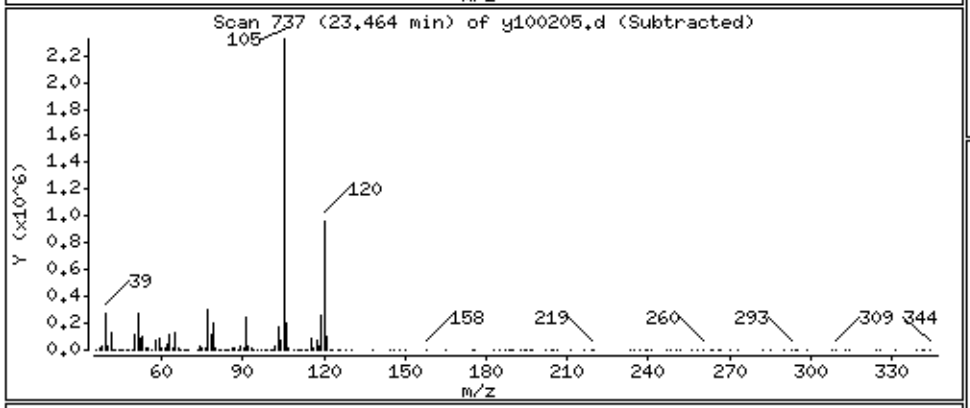
Column diameter: 0.53

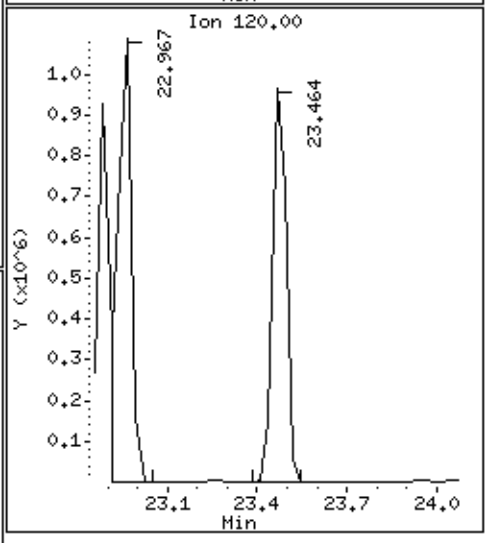
149 1,2,4-Trimethylbenzene

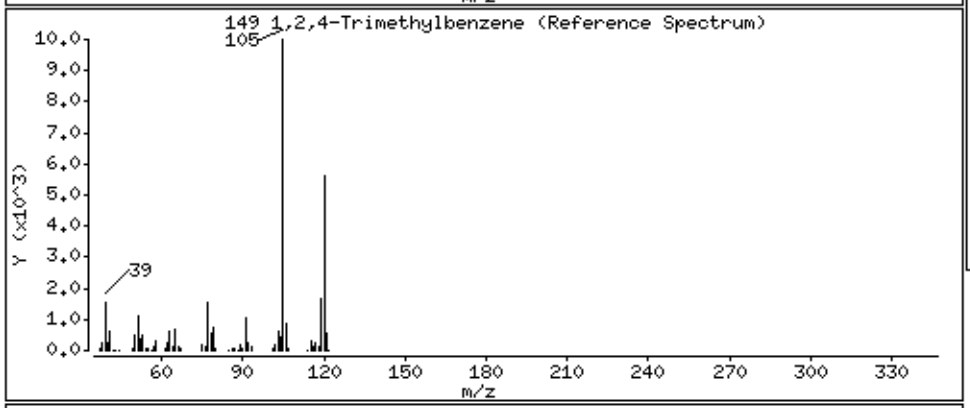
Concentration: 49.430 PPBV

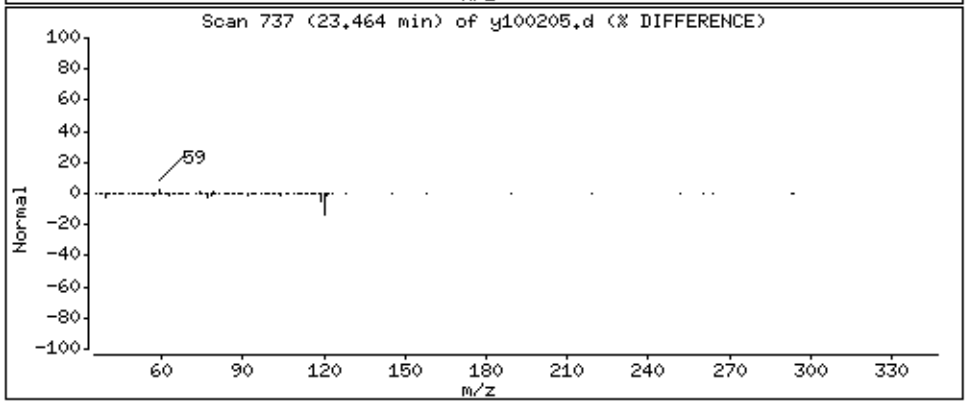












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

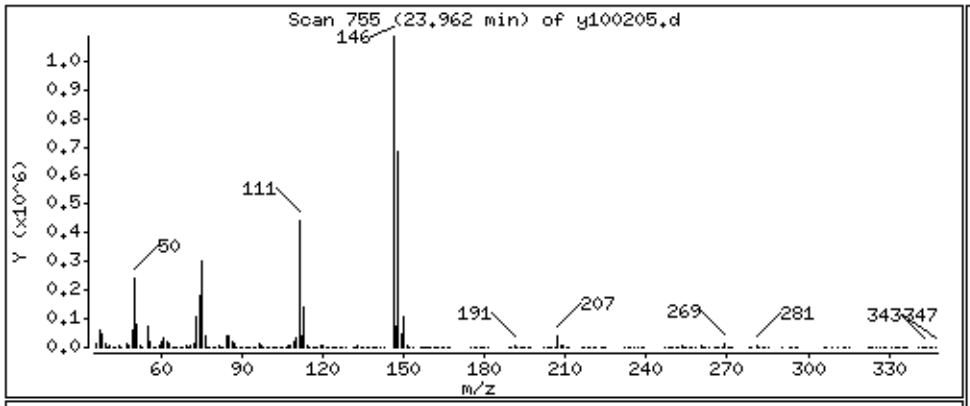
Operator: kr

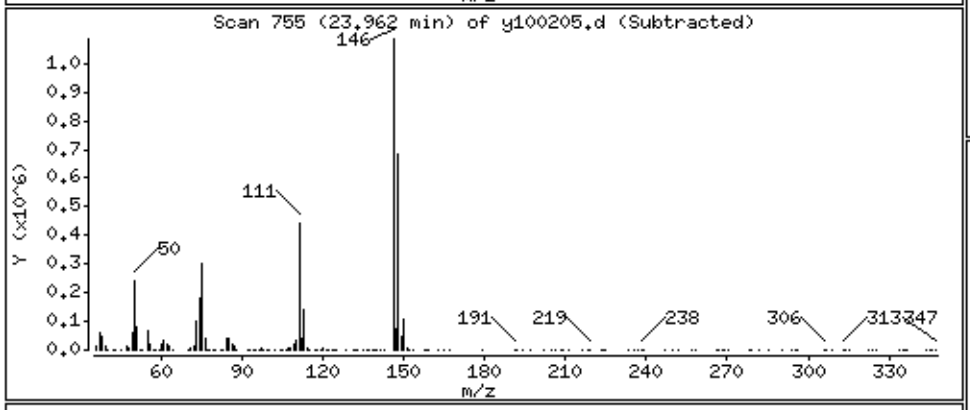
Column phase: RTx-624

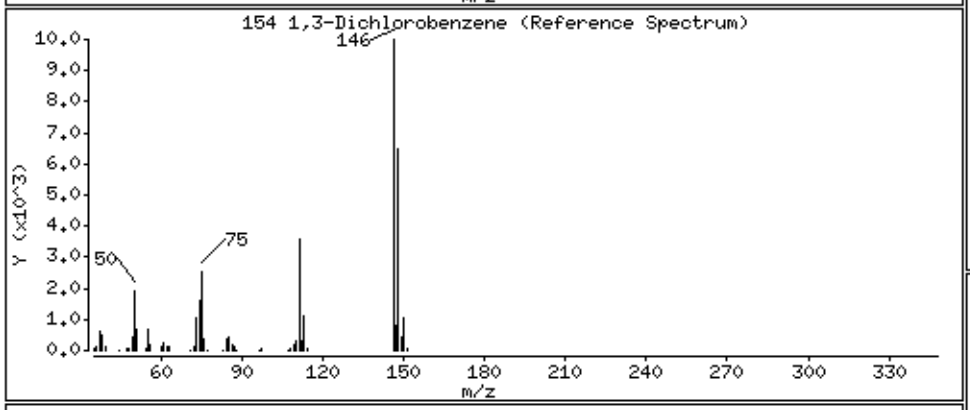
Column diameter: 0.53

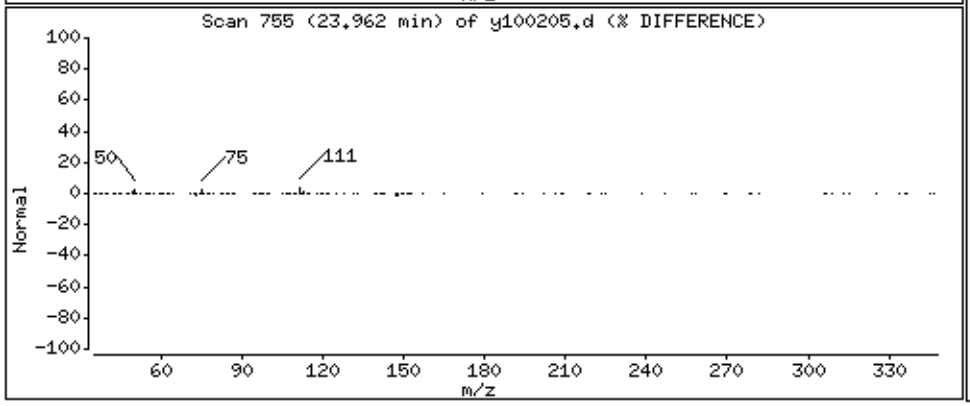
154 1,3-Dichlorobenzene

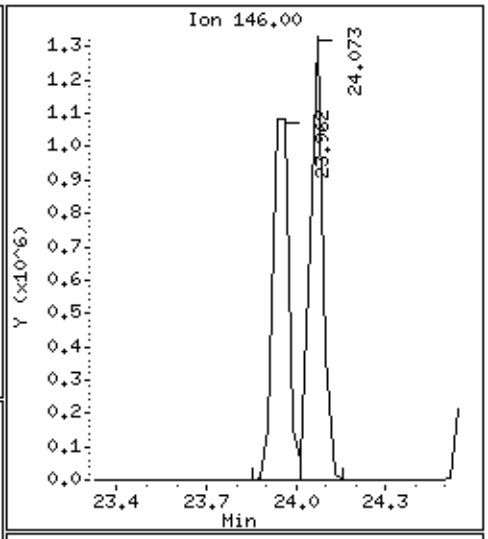
Concentration: 54.466 PPBV

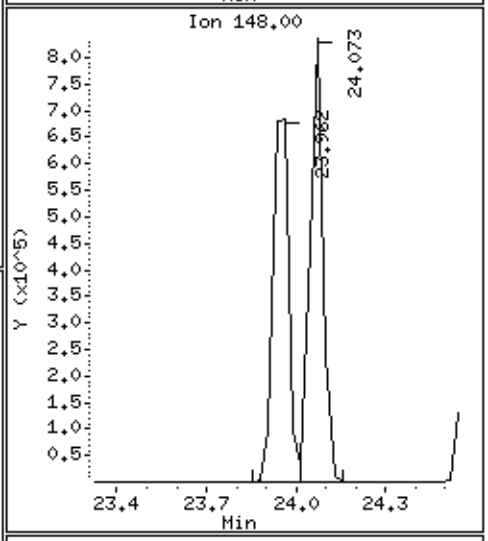


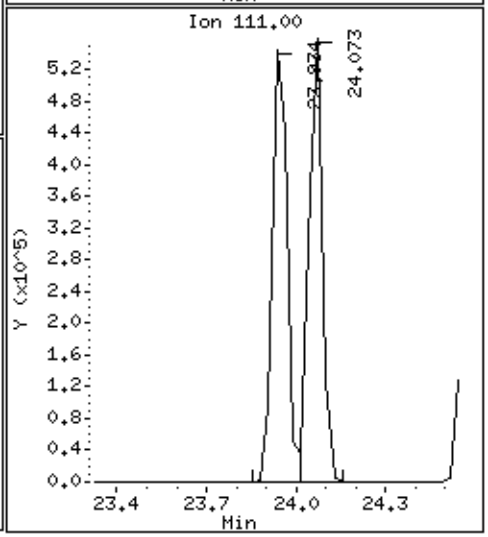












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

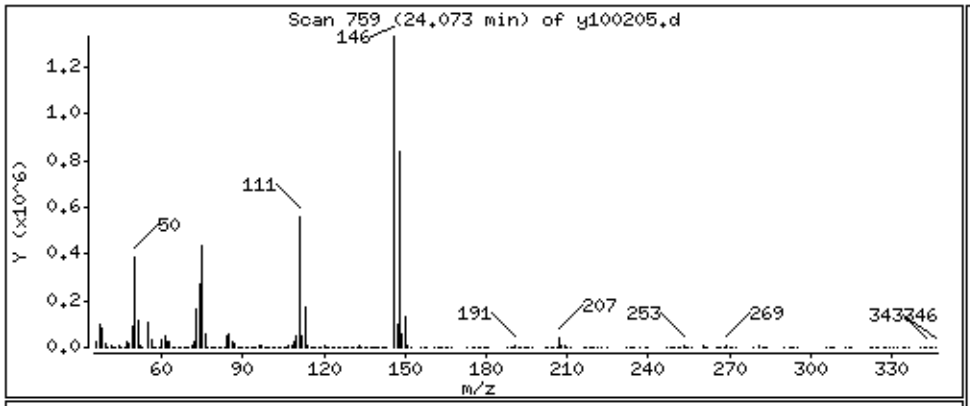
Operator: kr

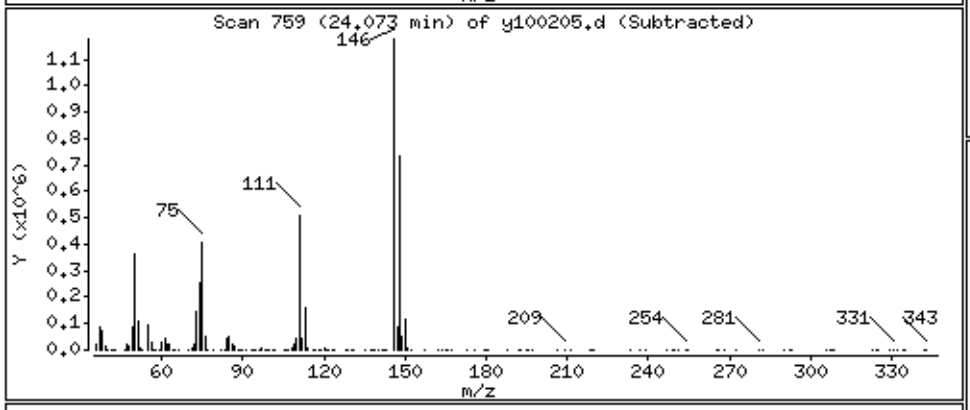
Column phase: RTx-624

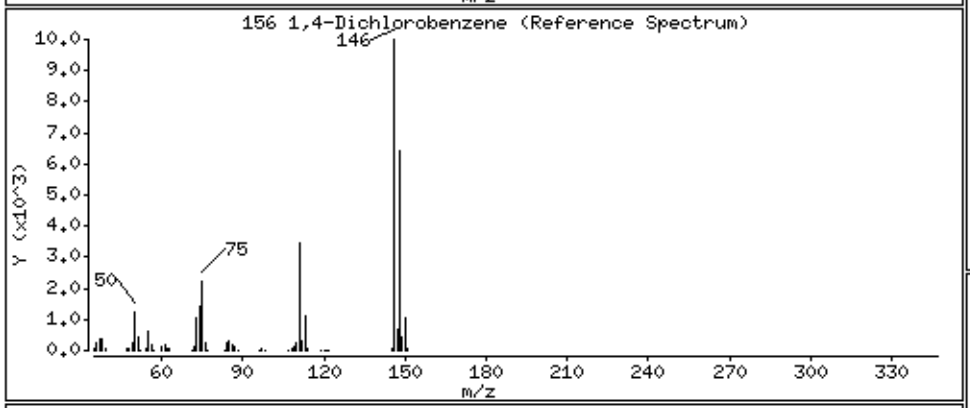
Column diameter: 0.53

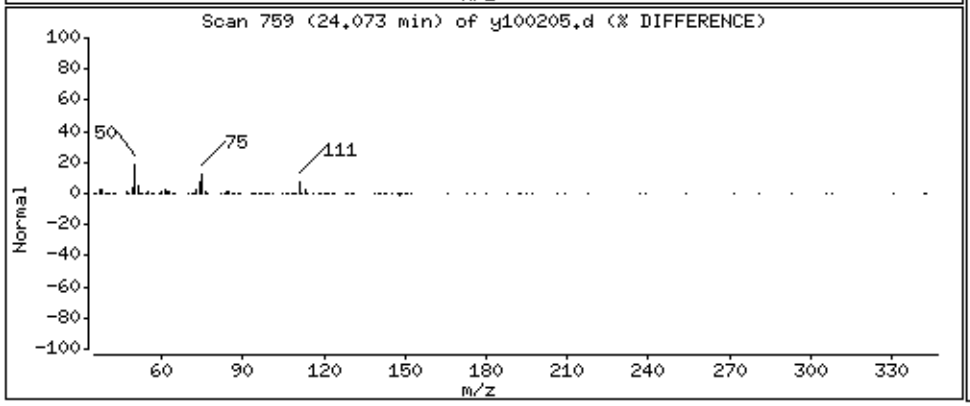
156 1,4-Dichlorobenzene

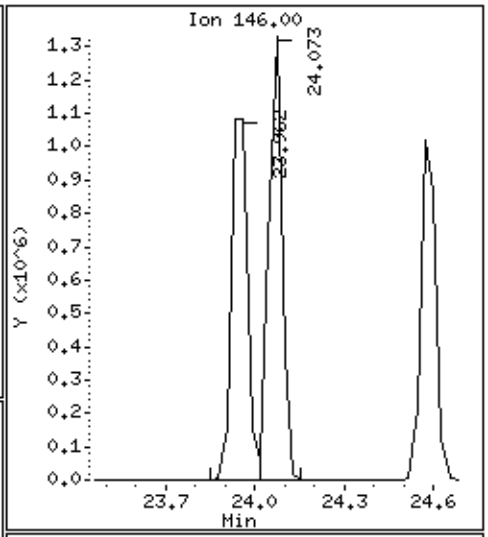
Concentration: 53.408 PPBV

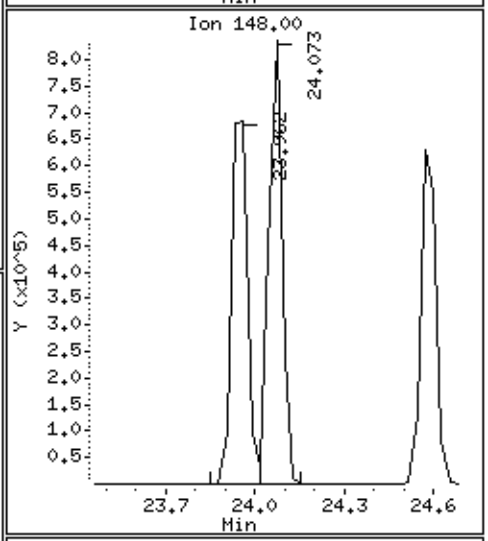


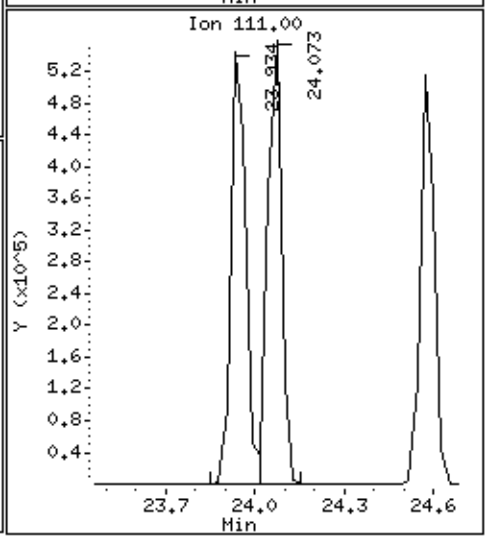












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

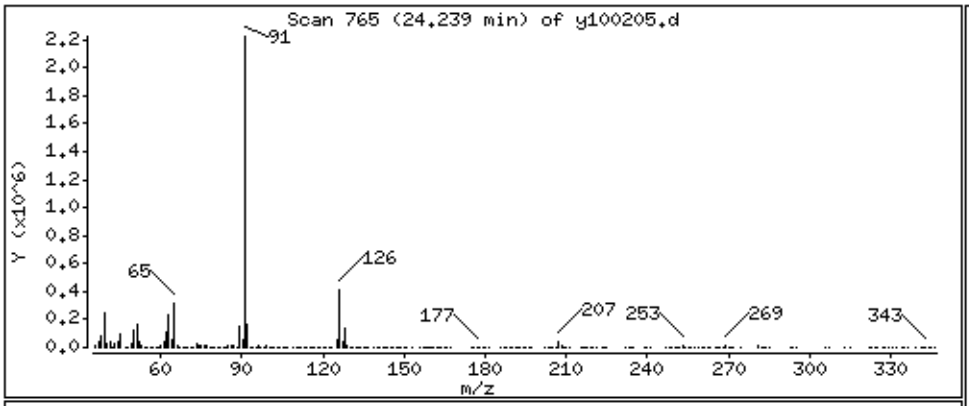
Operator: kr

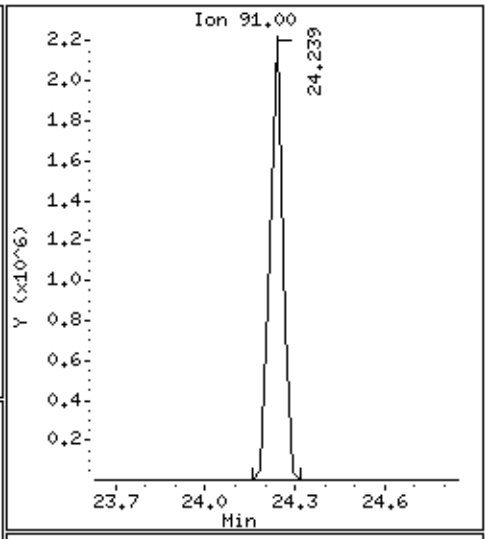
Column phase: RTx-624

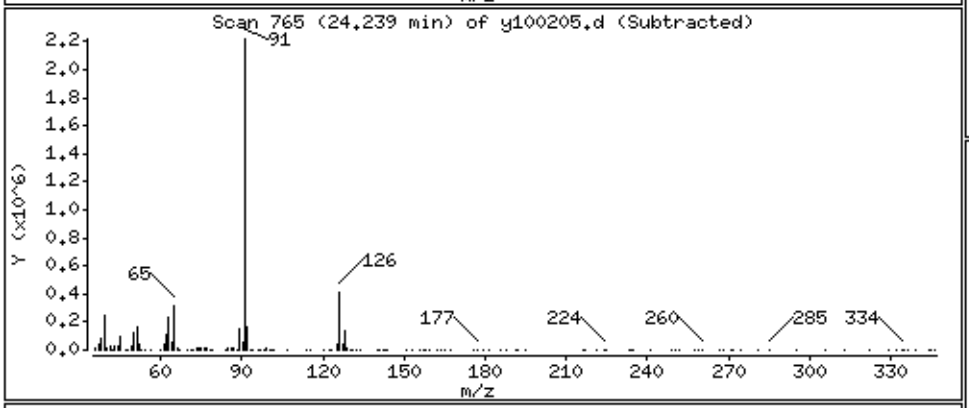
Column diameter: 0.53

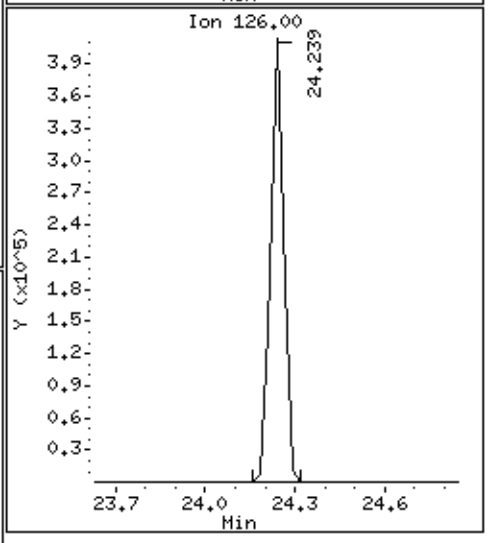
158 alpha-Chlorotoluene

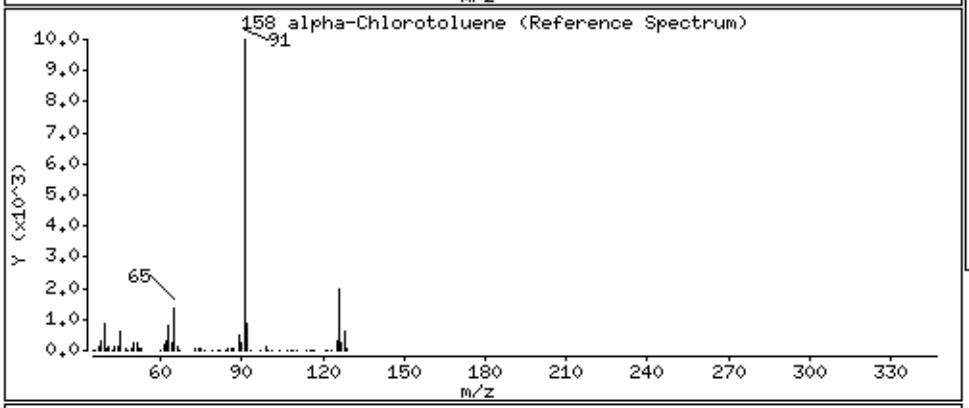
Concentration: 56.940 PPBV

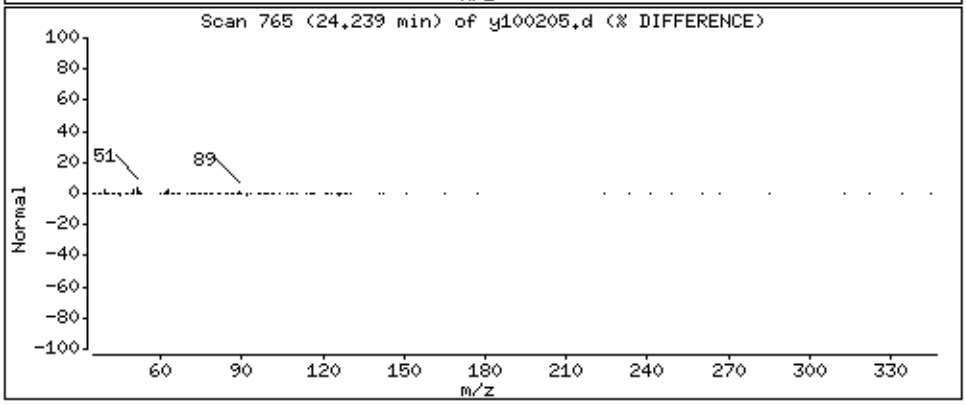












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

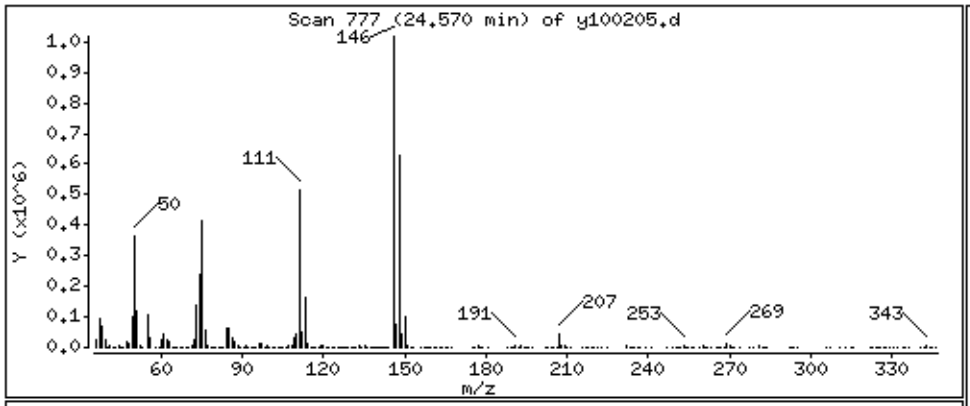
Operator: kr

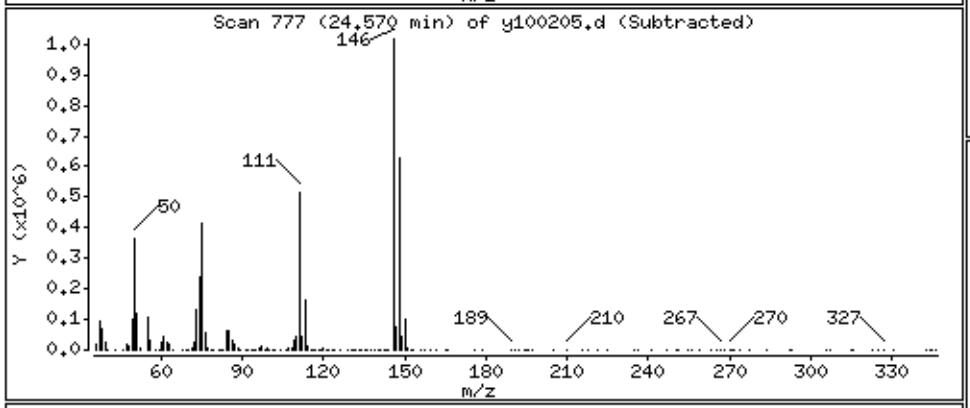
Column phase: RTx-624

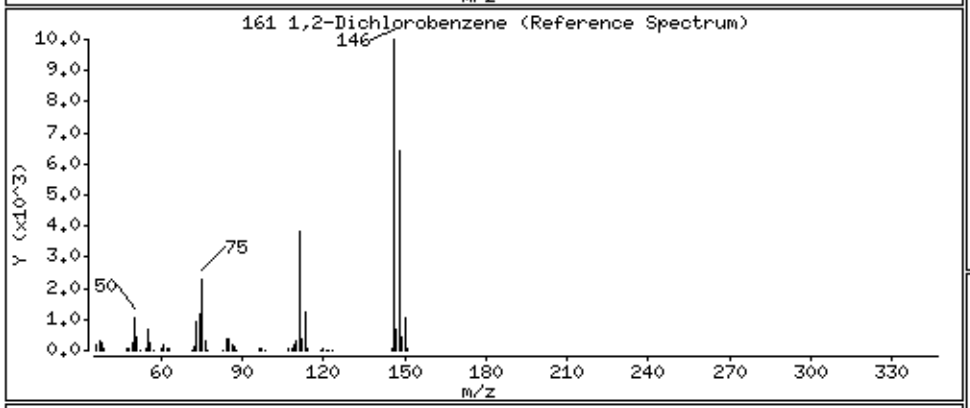
Column diameter: 0.53

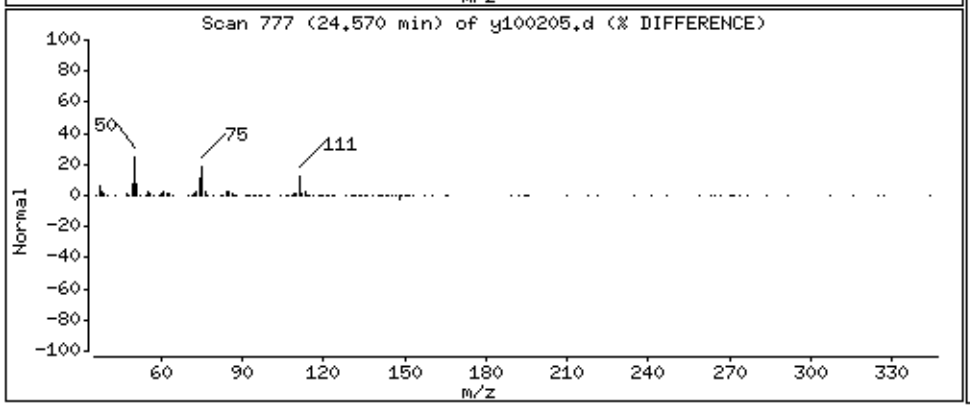
161 1,2-Dichlorobenzene

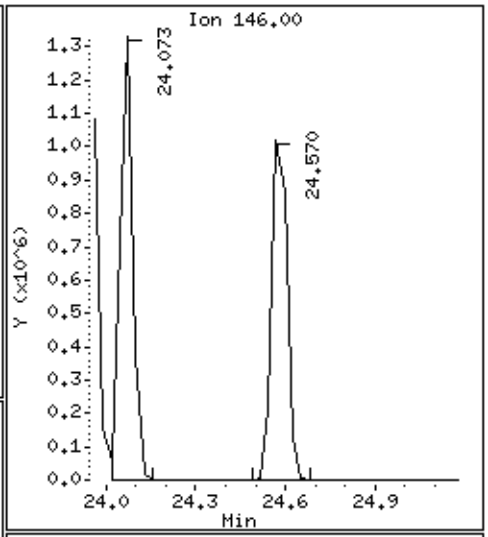
Concentration: 52.914 PPBV

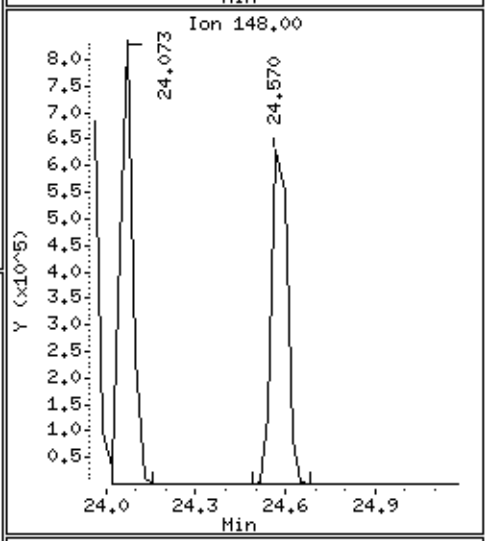


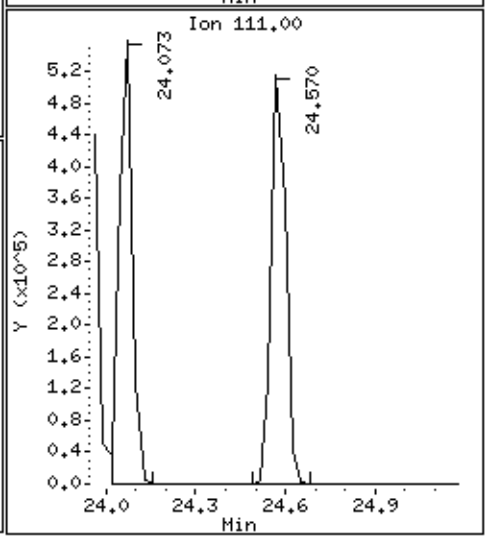












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

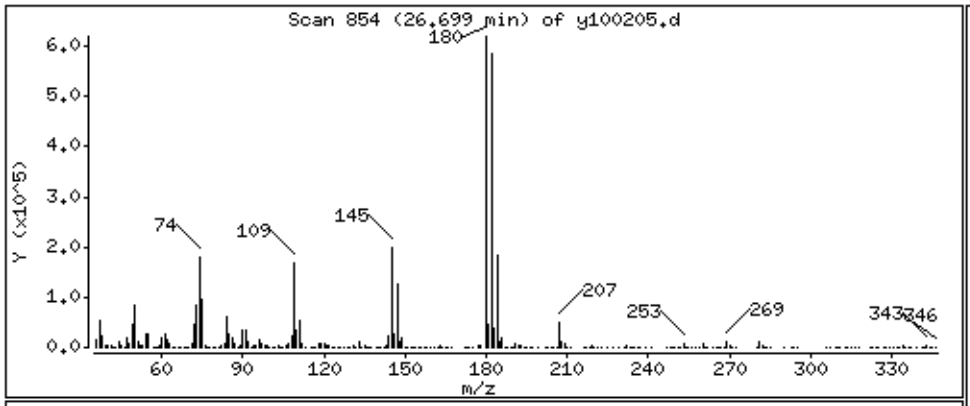
Operator: kr

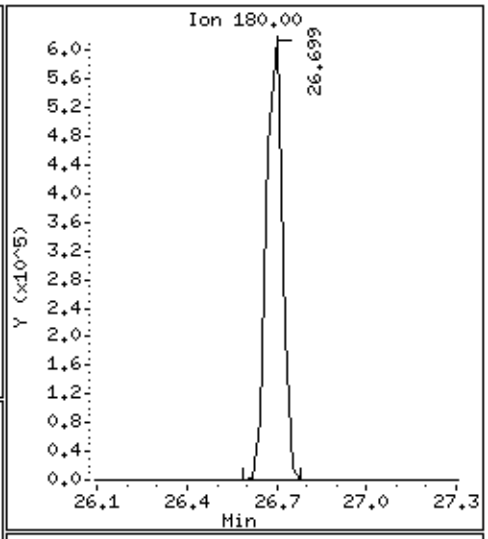
Column phase: RTx-624

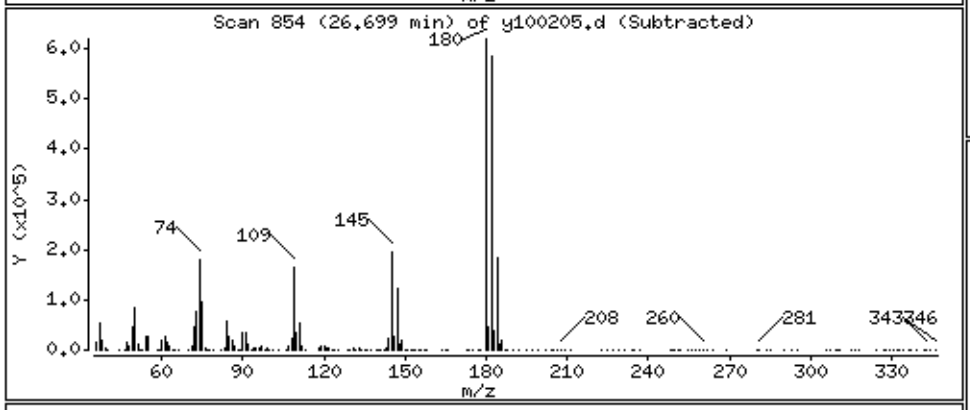
Column diameter: 0.53

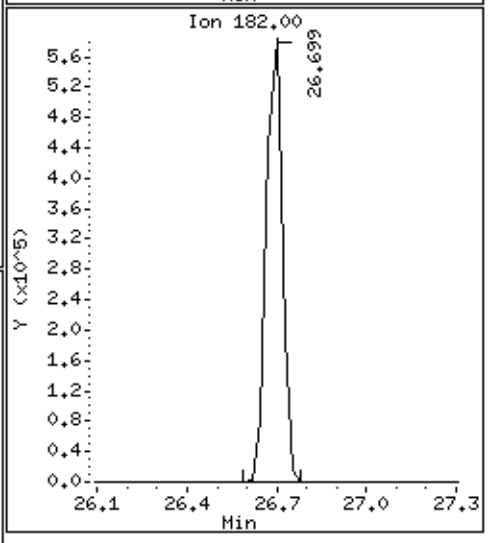
166 1,2,4-Trichlorobenzene

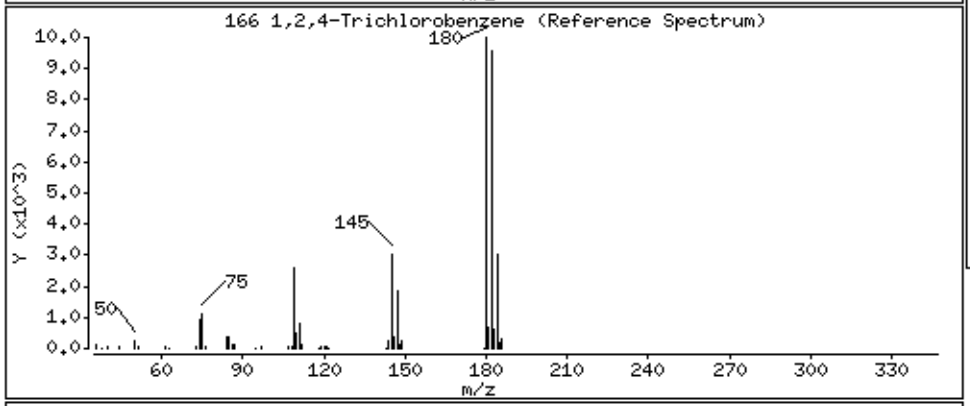
Concentration: 50.858 PPBV

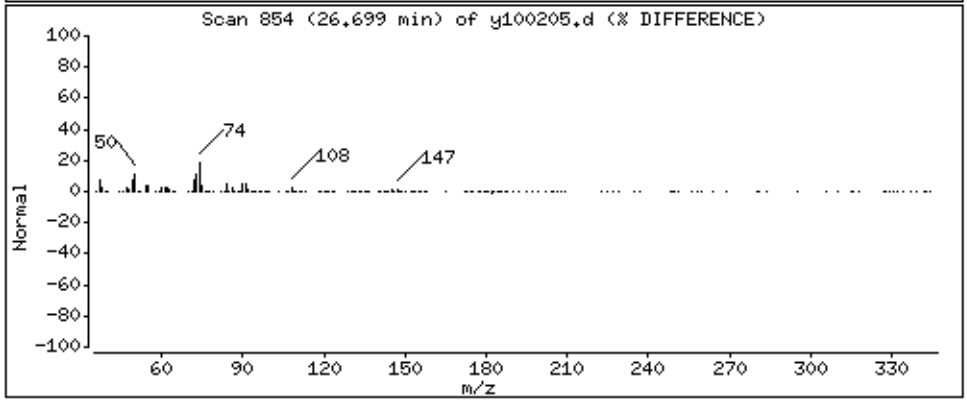












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

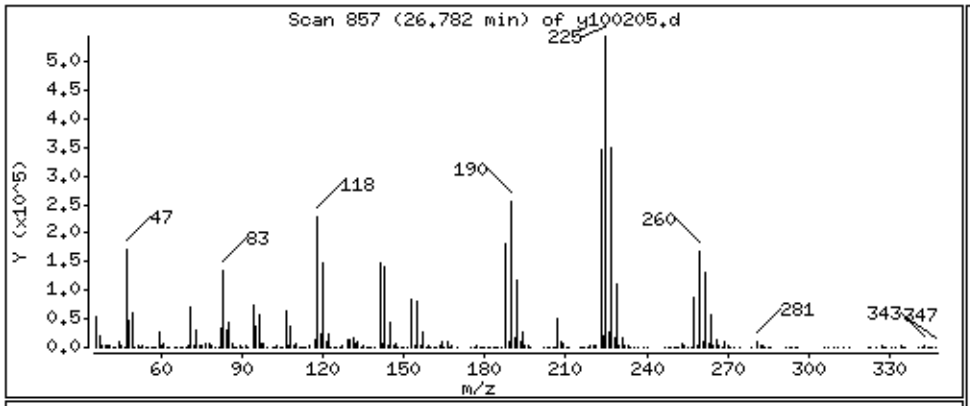
Operator: kr

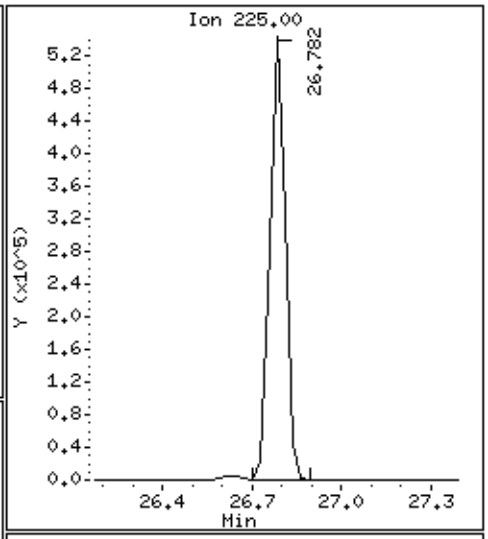
Column phase: RTx-624

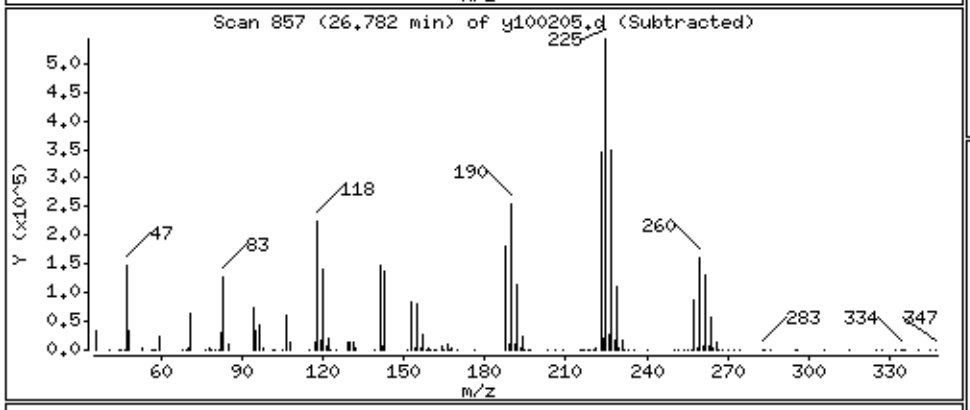
Column diameter: 0.53

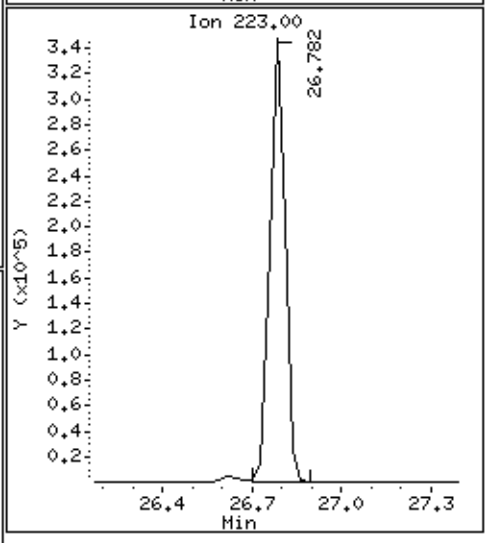
167 Hexachlorobutadiene

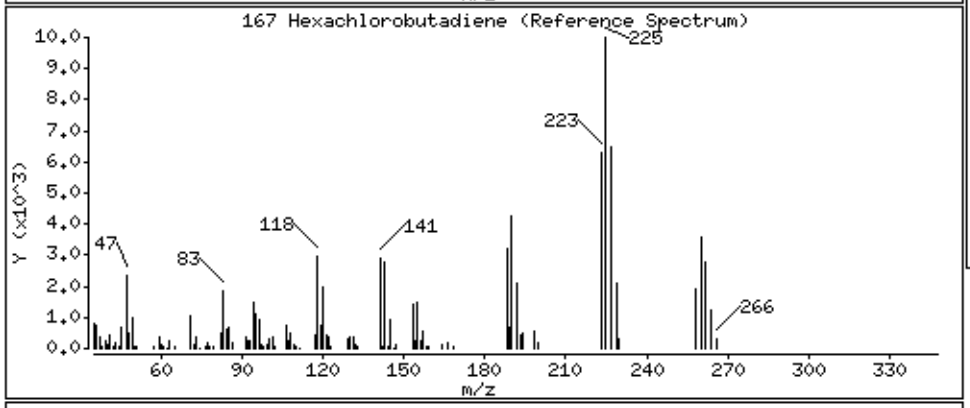
Concentration: 52.987 PPBV

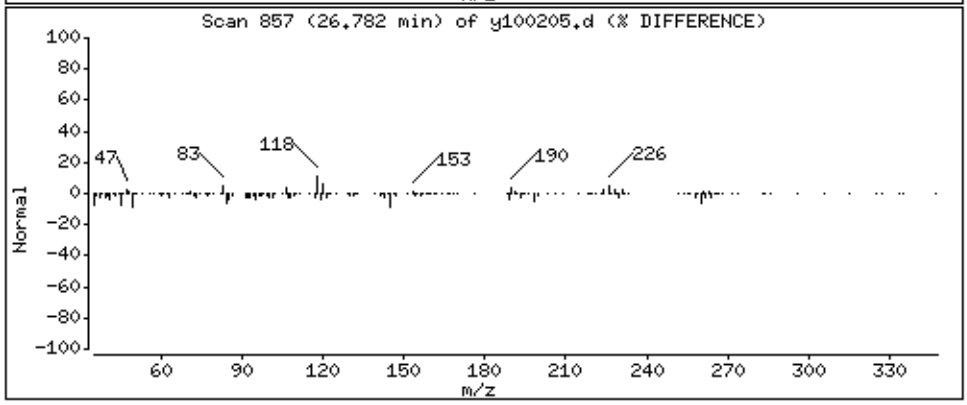












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

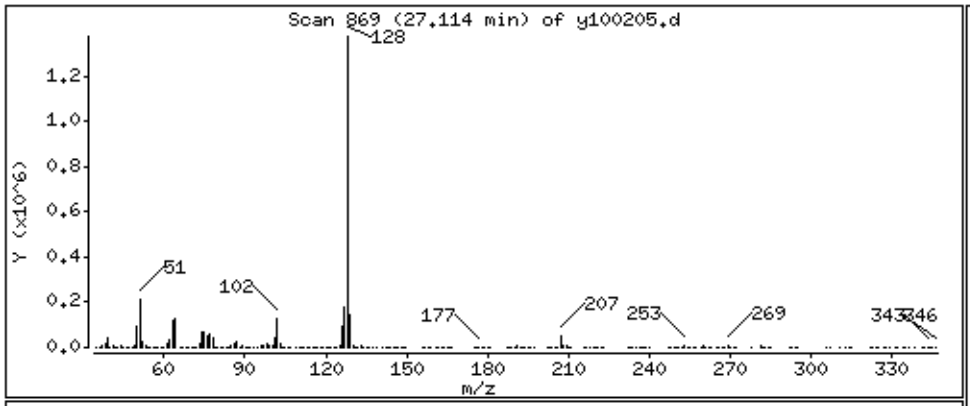
Operator: kr

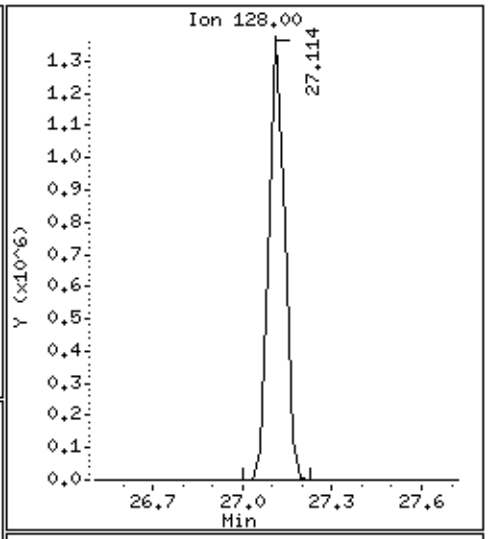
Column phase: RTx-624

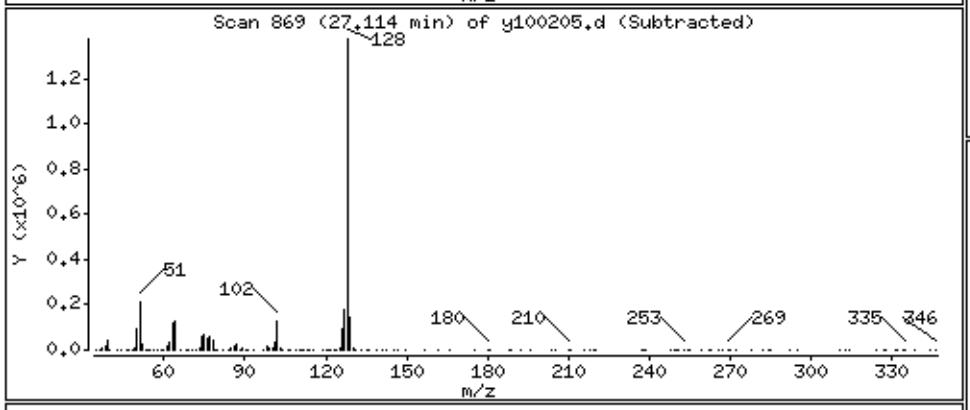
Column diameter: 0.53

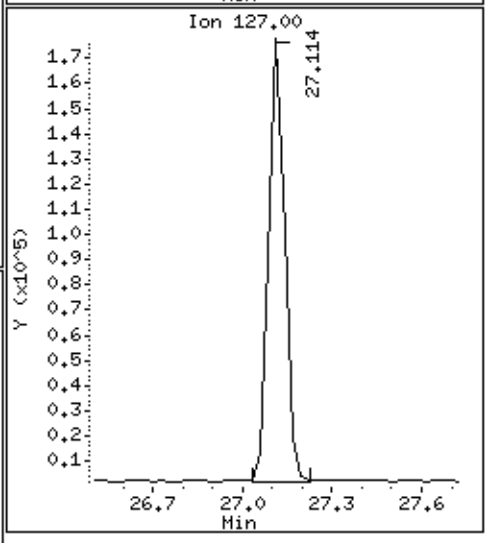
168 Naphthalene

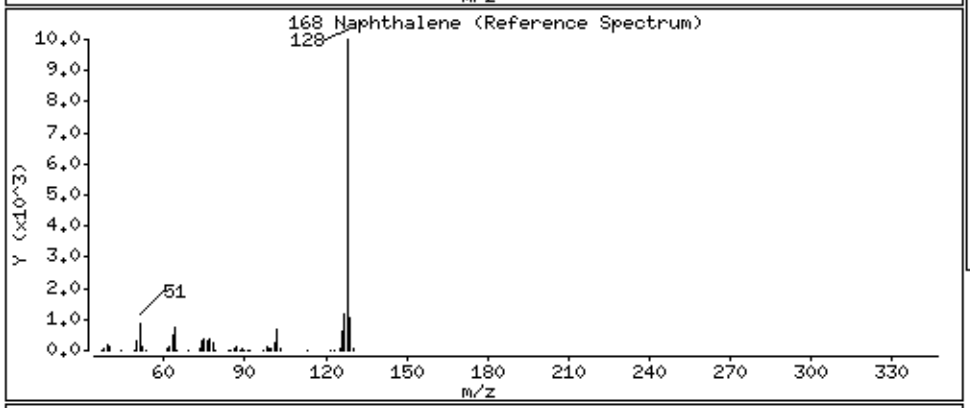
Concentration: 49.105 PPBV

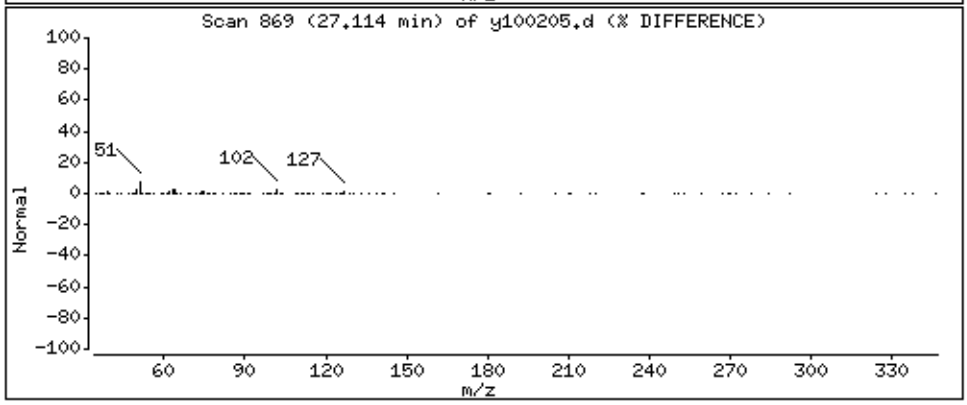












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

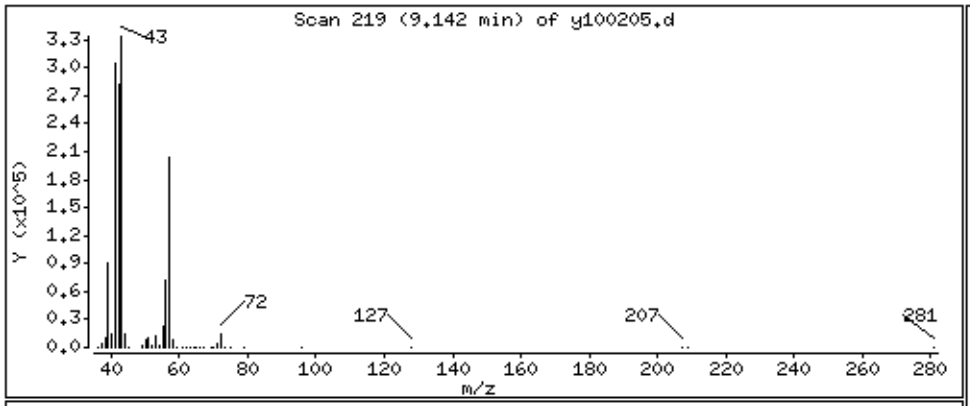
Operator: kr

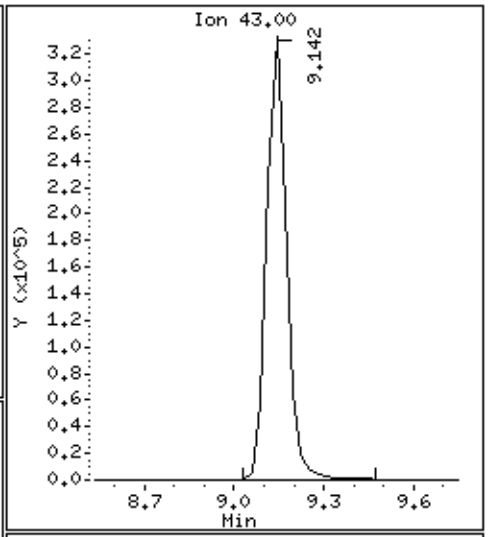
Column phase: RTx-624

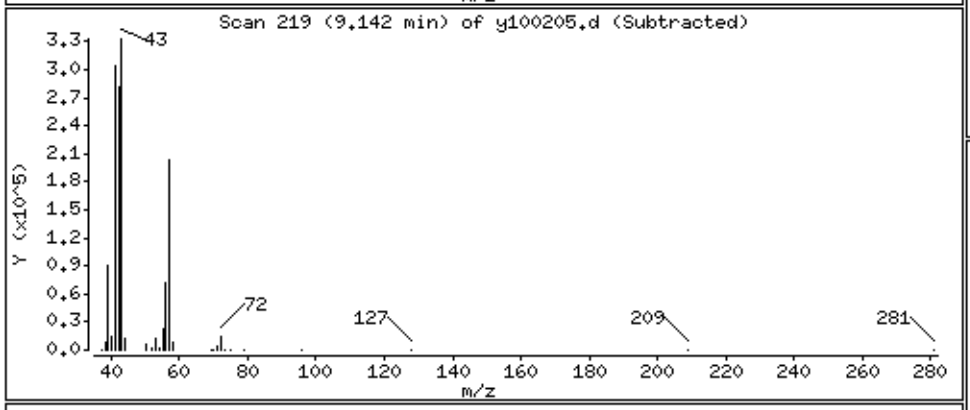
Column diameter: 0.53

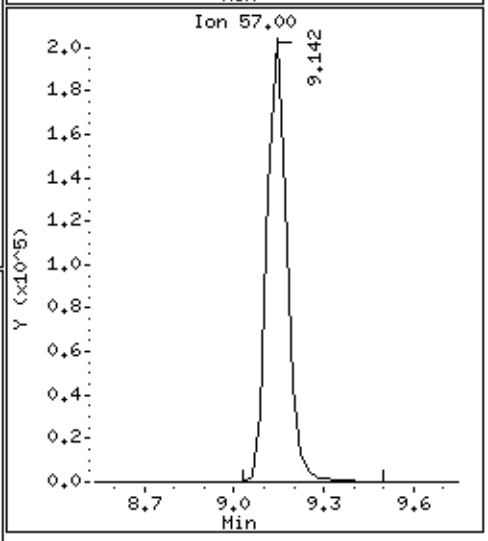
29 Isopentane

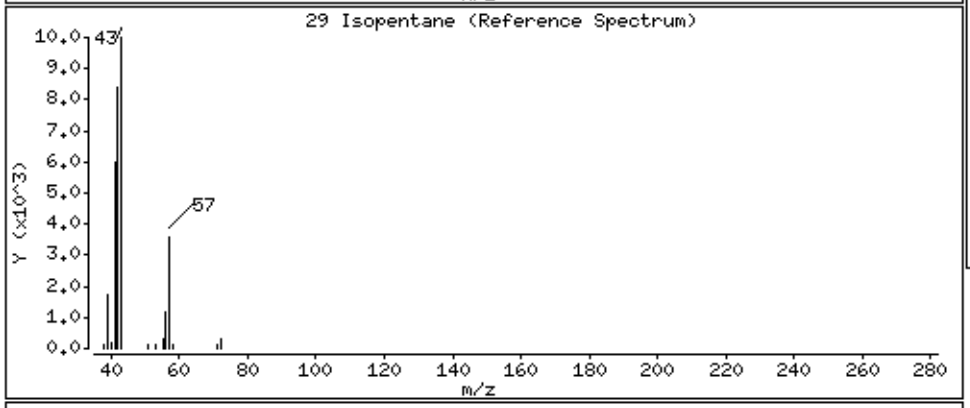
Concentration: 49.968 PPBV

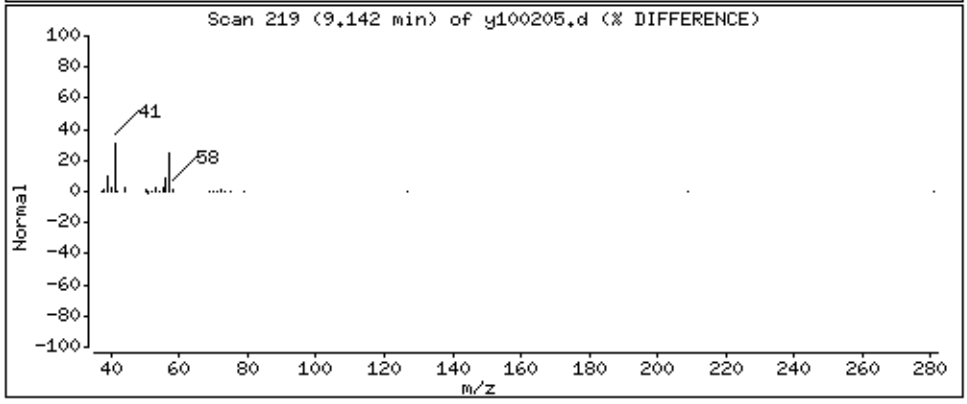












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

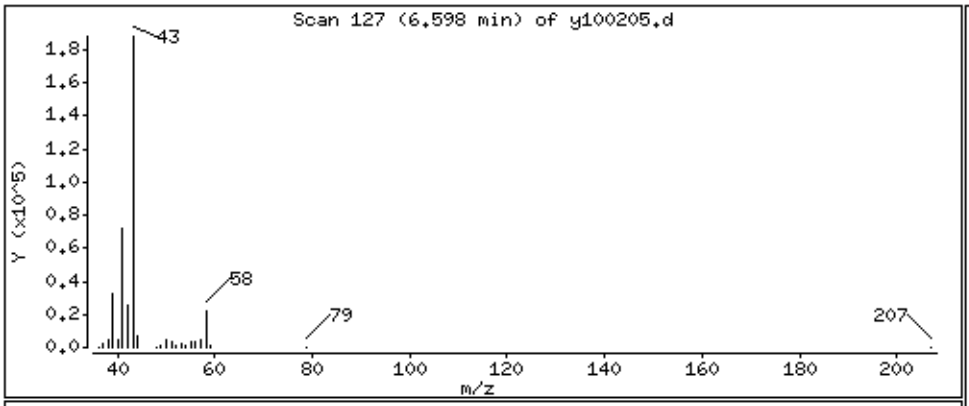
Operator: kr

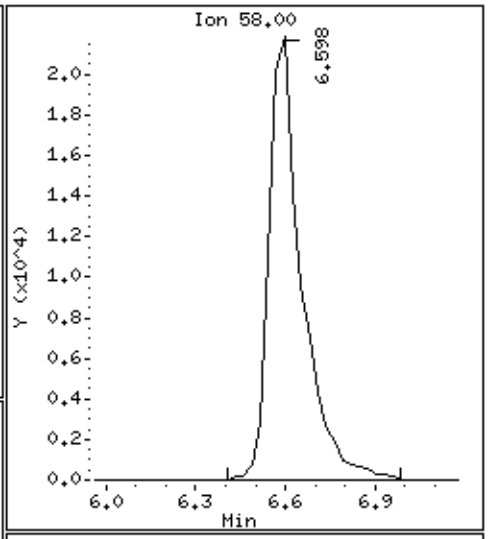
Column phase: RTx-624

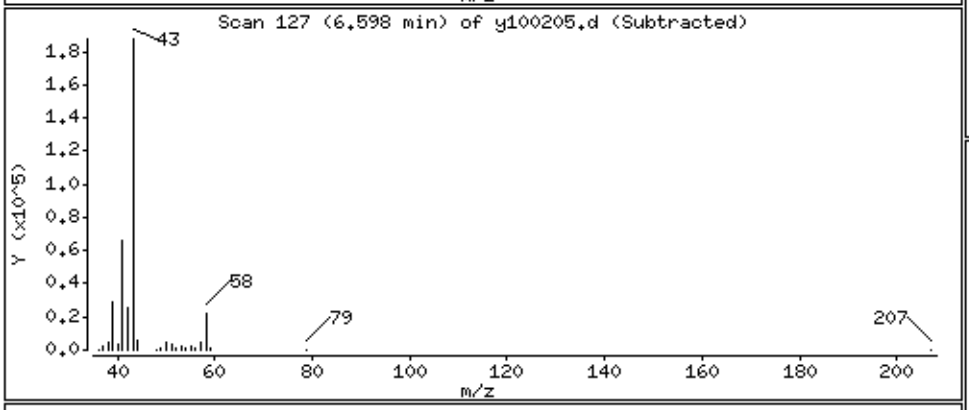
Column diameter: 0.53

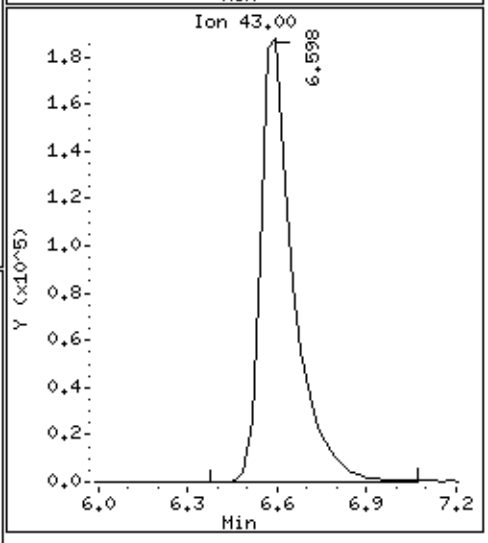
20 Butane

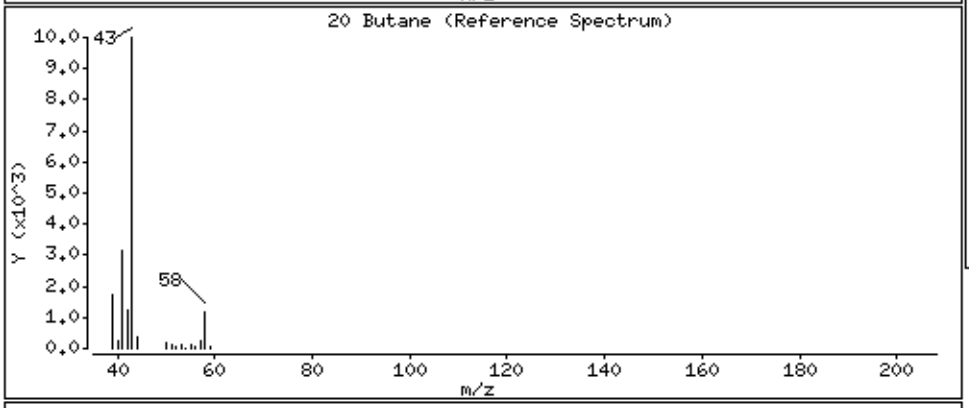
Concentration: 48.873 PPBV

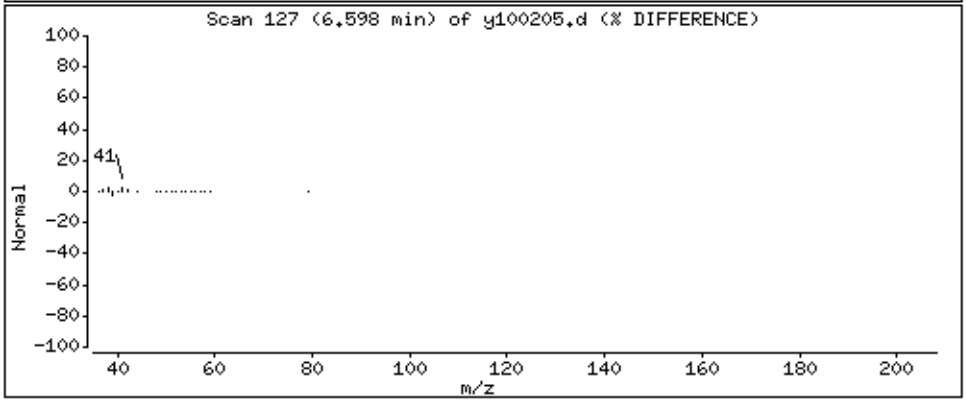












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

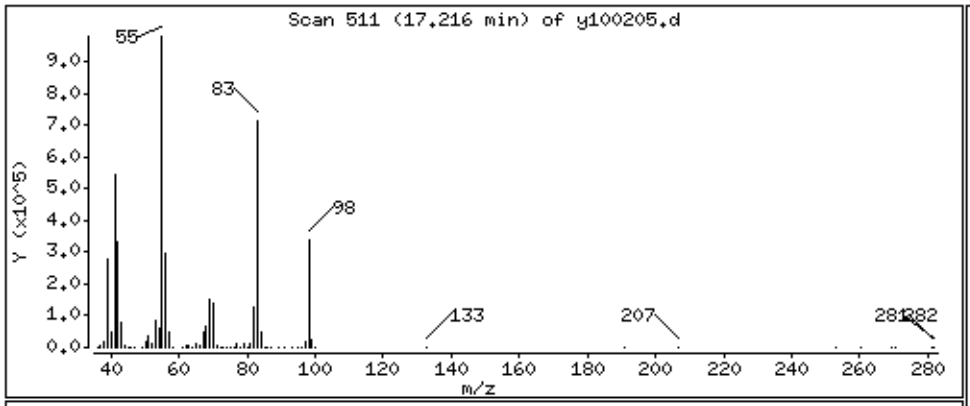
Operator: kr

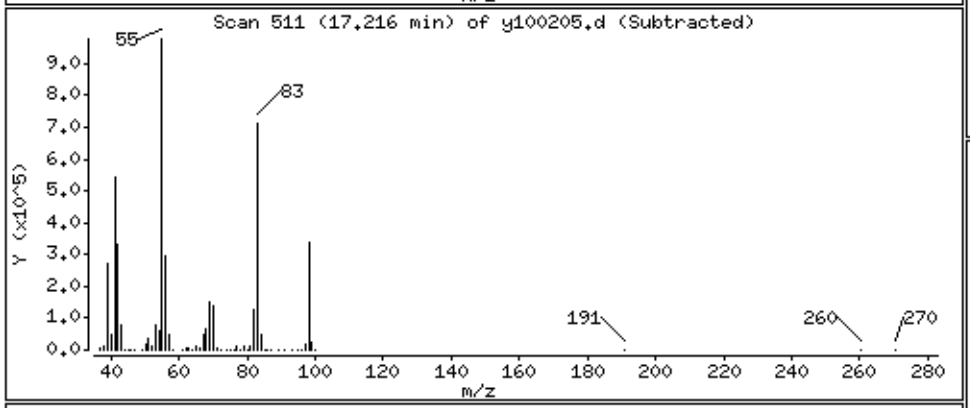
Column phase: RTx-624

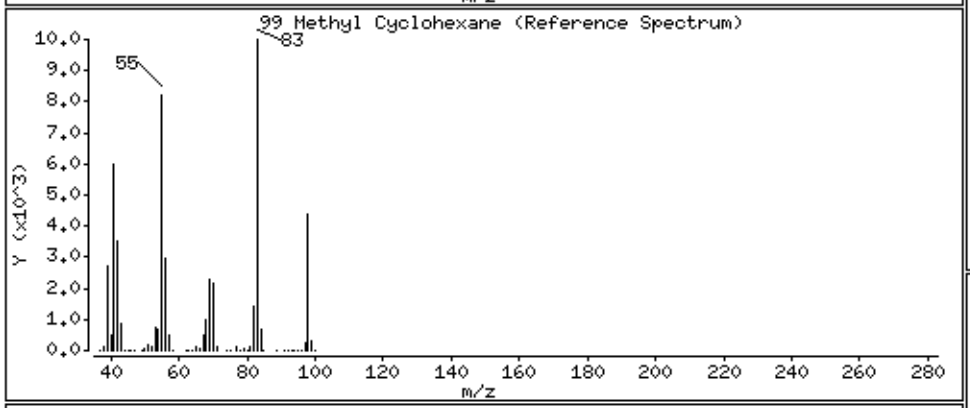
Column diameter: 0.53

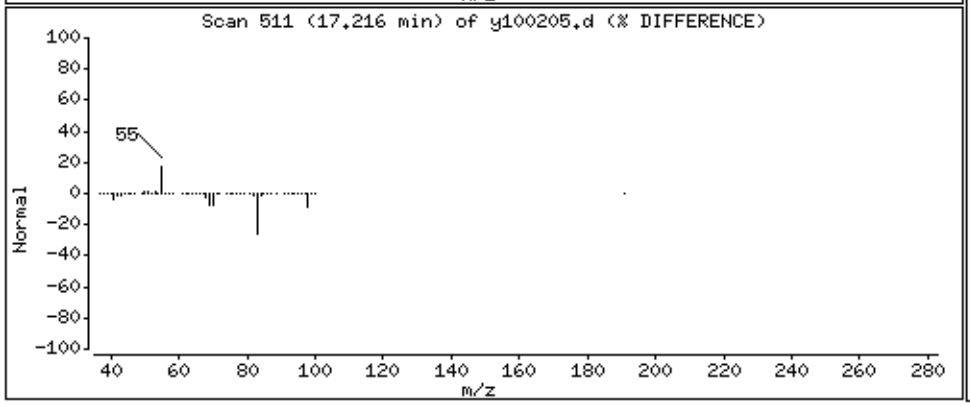
99 Methyl Cyclohexane

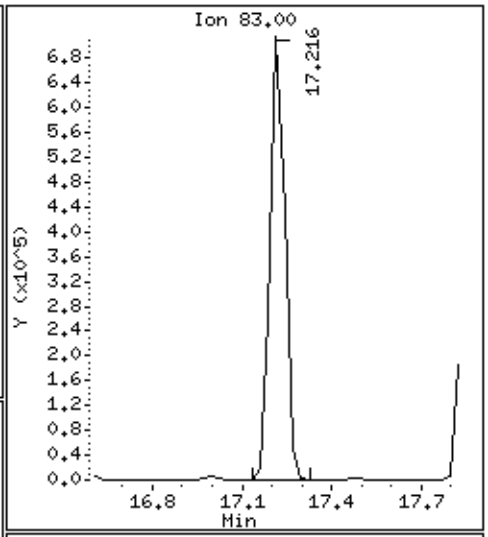
Concentration: 51.182 PPBV

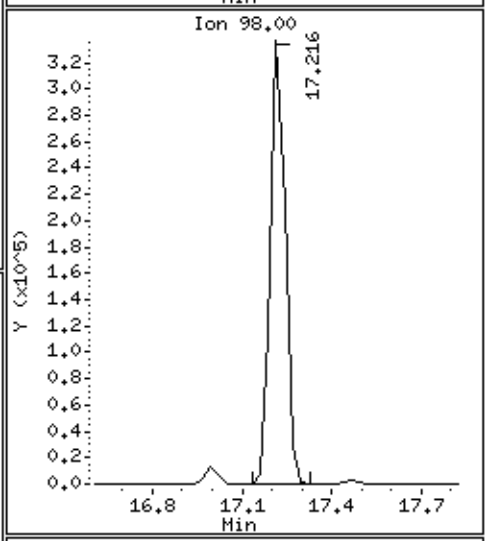


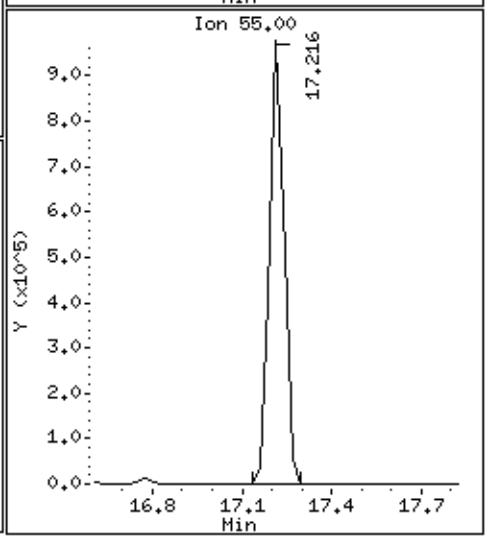












Data File: /chem/msdy.i/02oct08.b/y100205.d

Date : 02-OCT-2008 23:07

Client ID: LCS-1

Instrument: msdy.i

Sample Info: 50mL #1612-164

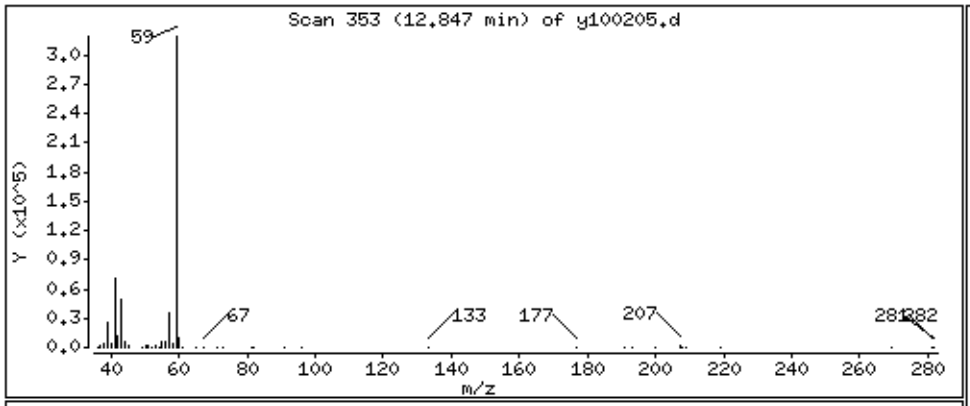
Operator: kr

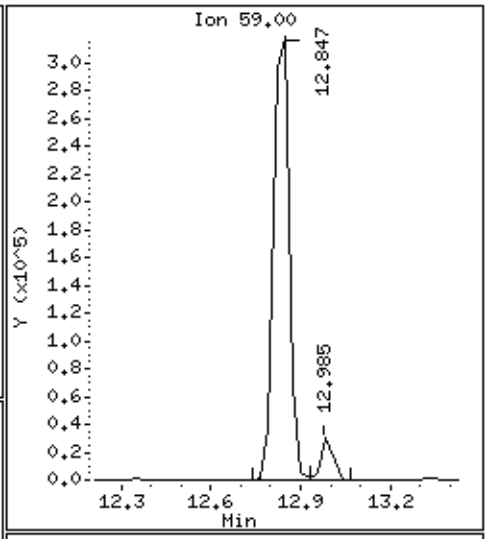
Column phase: RTx-624

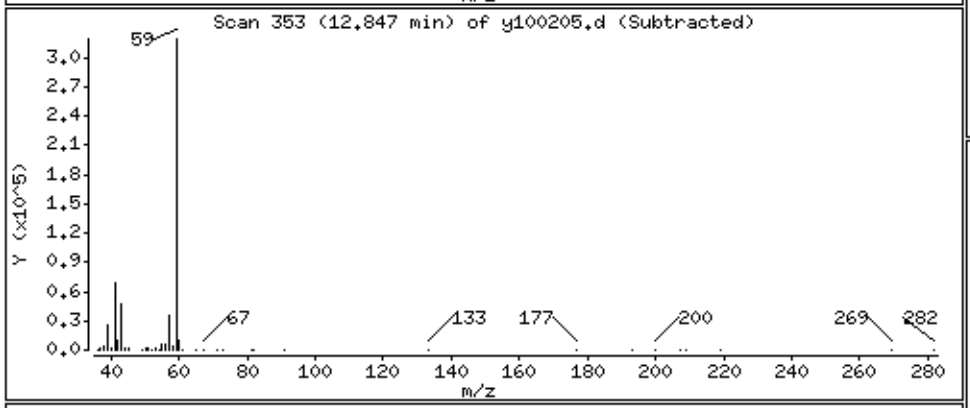
Column diameter: 0.53

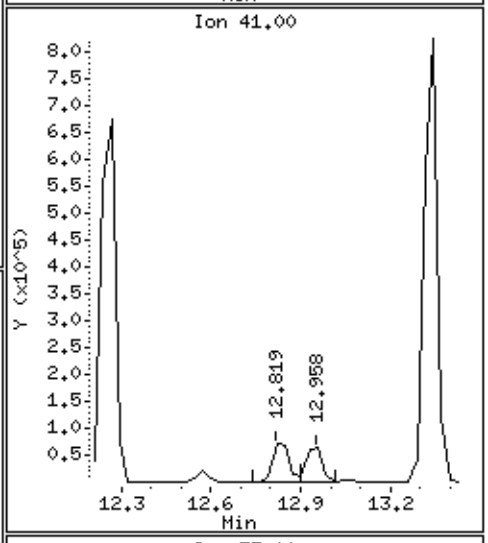
58 tert-Butyl-Alcohol

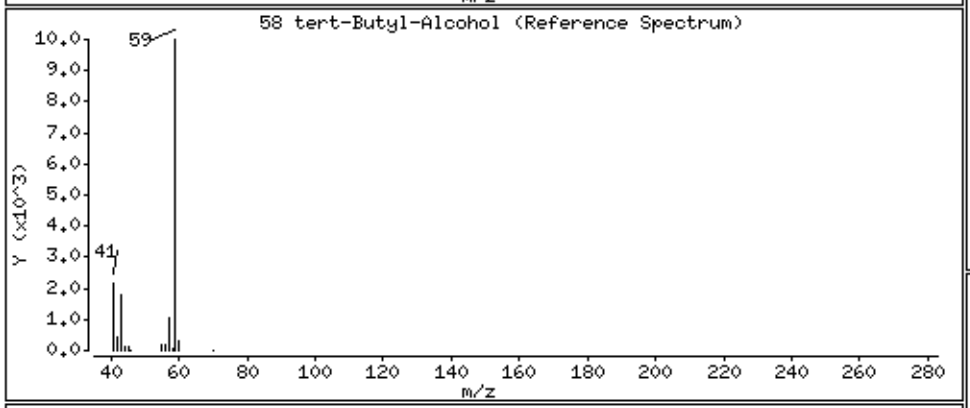
Concentration: 57.038 PPBV

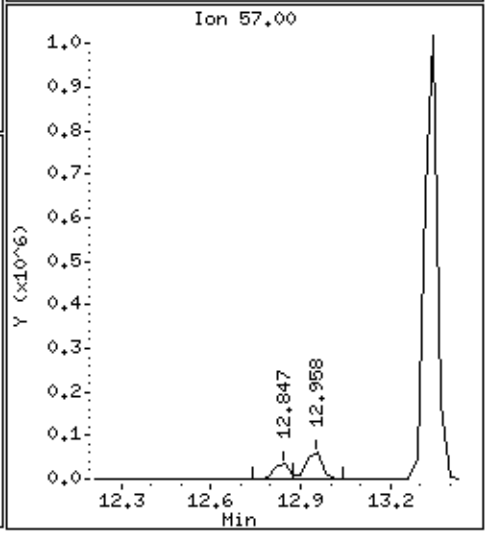


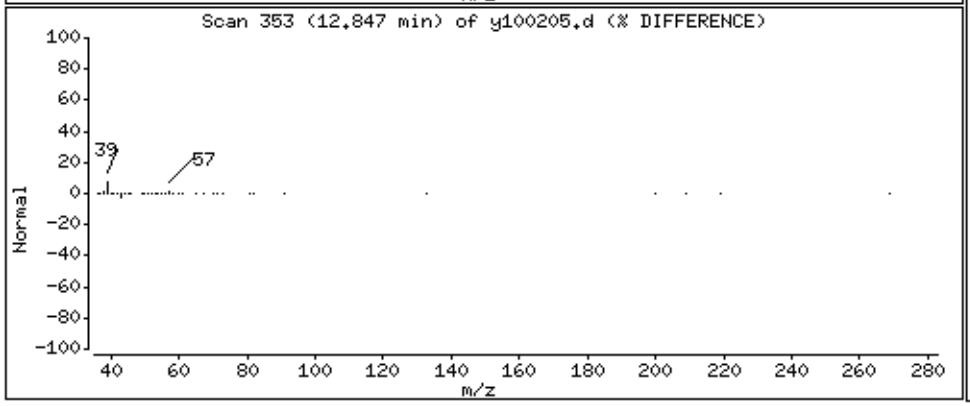












@ Air Toxics Ltd. **MSD-Y** Logbook #: 1705

0307

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	27.24
75	30.0 – 60.0% of mass 95	45.42
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	8.11
173	Less than 2.0% of mass 174	(0.00)[1]
174	Greater than 50.0% of mass 95	67.23
175	5.0 – 9.0% of mass 174	(7.91)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.28)[1]
177	5.0 – 9.0% of mass 176	(7.57)[2]

[1] - value in parenthesis is % mass 174 [2] - value in parenthesis is % mass 176

Verify 176/174 m/z Ratio: 400064 / 419904 *100 = 95.28 ✓

BFB Injection Date: 10-2-08
BFB Injection Time: 1113
BFB File ID: Y100201
Tekmar Purge Flow: —
Vacuum: 5.08 *10^-6

IS/S Std.#:	1541-262	Exp. Date: 12-12-08
BCM	345904	
1,4-DFB	178/260	
CB-d5	176/193	

Verified CCV IS vs ICAL mid-point (- 40%D) DB (initials)

Calculation Check:

ppbv of compound = $\frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF}$ = $\frac{(\ 799067\ )}{(\ 345904\ )} \times \frac{(\ 25\ )}{(\ 2.15094\ )}$ = 26.8496

Reported Result 26.850

File ID:	Y100204
Compound:	1,2-DCA-d4
Initials:	DB

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	Y100201	BFB Tune Check	1476-477	50mg	2µL	100	10-2-08	1113	KR/DB	Apex Scan 79
2	✓	02	MDL Spike	1612-197	0-30ppbv	15mL			1401	KR/DB	
3	✓	03	↓	↓	0.5ppbv	25mL		↓	1609	DB	
4	✓	04	CCV-1 (100ppbv)	1612-158	50ppbv	50mL			2227	KR	∅ out
5	✓	05	LCS-1 (200ppbv)	1612-164	50ppbv	50mL			2307	KR	∅ out
6	✓	06	Lab Blank	1614	Humid	200mL	1.00	10/2/08	2344	DM/KT	
7	✓	07	Lab Blank	3/1744	↓	↓	↓	10/3/08	0039	DM/KT	
8	✓	08	080912A-01A	2552	6.5"Hg/5psig	200mL	1.71		0147	DM/KT	
9	✓	09	↓ -02A	33909	5.5"Hg/5psig	↓	1.64	↓	0224	DM/KT	

Signature

10/3/08
Date

10	V	Y100210	08094388A-01A	4241	7.5"Hg→5"Hg	200mL	1.79	10/3/08	0301	DA/C.T.		
11	V	11	04A	417	15"Hg→5"Hg	"	2.68	"	0338	DA/C.T.		
12	V	12	05A	1461	6.5"Hg→15"Hg	"	2.58	"	0415	DA/C.T.		
13	V	13	05AA	"	"	"	"	"	0500	DA/C.T.		
14	V	14	08094449-01A	5756	7.5"Hg→5"Hg	"	1.79	"	0537	C.T.		
15	V	15	02A	5740	6.5"Hg→5"Hg	"	1.71	"	0614	C.T.		
16												
17												
18												
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23												
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25												
26												
27												
28												
29												
30												
31												
32												

10/3/08

Comments:

Signature

10-5-08
Date

0308

Air Toxics Ltd.

Data file : /chem/msdy.i/30sep08.b/y093005.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 30-SEP-2008 17:59
Operator : kr Inst ID: msdy.i
Smp Info : 2uL #1476-477;BFB Tune Check;BFB Tune Check
Misc Info : 50ng
Comment :
Method : /chem/msdy.i/30sep08.b/bfb60.m
Meth Date : 30-Sep-2008 14:17 dpage Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
7.271	7.299	-0.028	95	495101			100.00- 100.00	100.00
7.271	7.299	-0.028	50	145087			15.00- 40.00	29.30
7.271	7.299	-0.028	75	229982			30.00- 60.00	46.45
7.271	7.299	-0.028	96	30810			5.00- 9.00	6.22
7.271	7.299	-0.028	173	2182			0.00- 2.00	0.71
7.271	7.299	-0.028	174	307438			50.00- 100.00	62.10
7.271	7.299	-0.028	175	23311			5.00- 9.00	7.58
7.271	7.299	-0.028	176	294485			95.00- 101.00	95.79
7.271	7.299	-0.028	177	18778			5.00- 9.00	6.38

Data File: /chem/msdy.i/30sep08.b/y093005.d

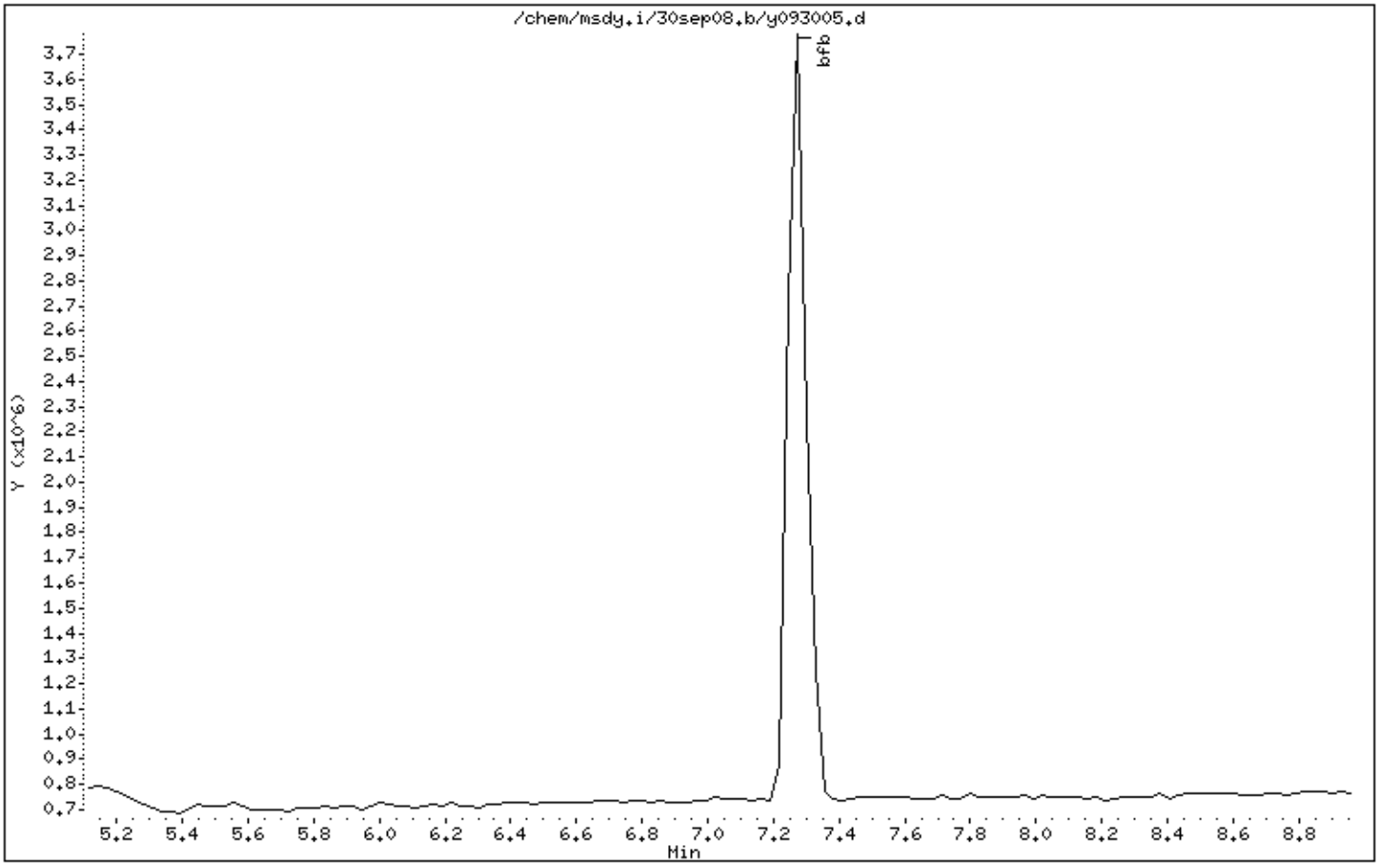
Date : 30-SEP-2008 17:59

Client ID: BFB Instrument: msdy.i

Sample Info: 2uL #1476-477;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: kr

Column phase: Column diameter: 2.00



Data File: /chem/msdy.i/30sep08.b/y093005.d

Date : 30-SEP-2008 17:59

Client ID: BFB

Instrument: msdy.i

Sample Info: 2uL #1476-477;BFB Tune Check;BFB Tune Check

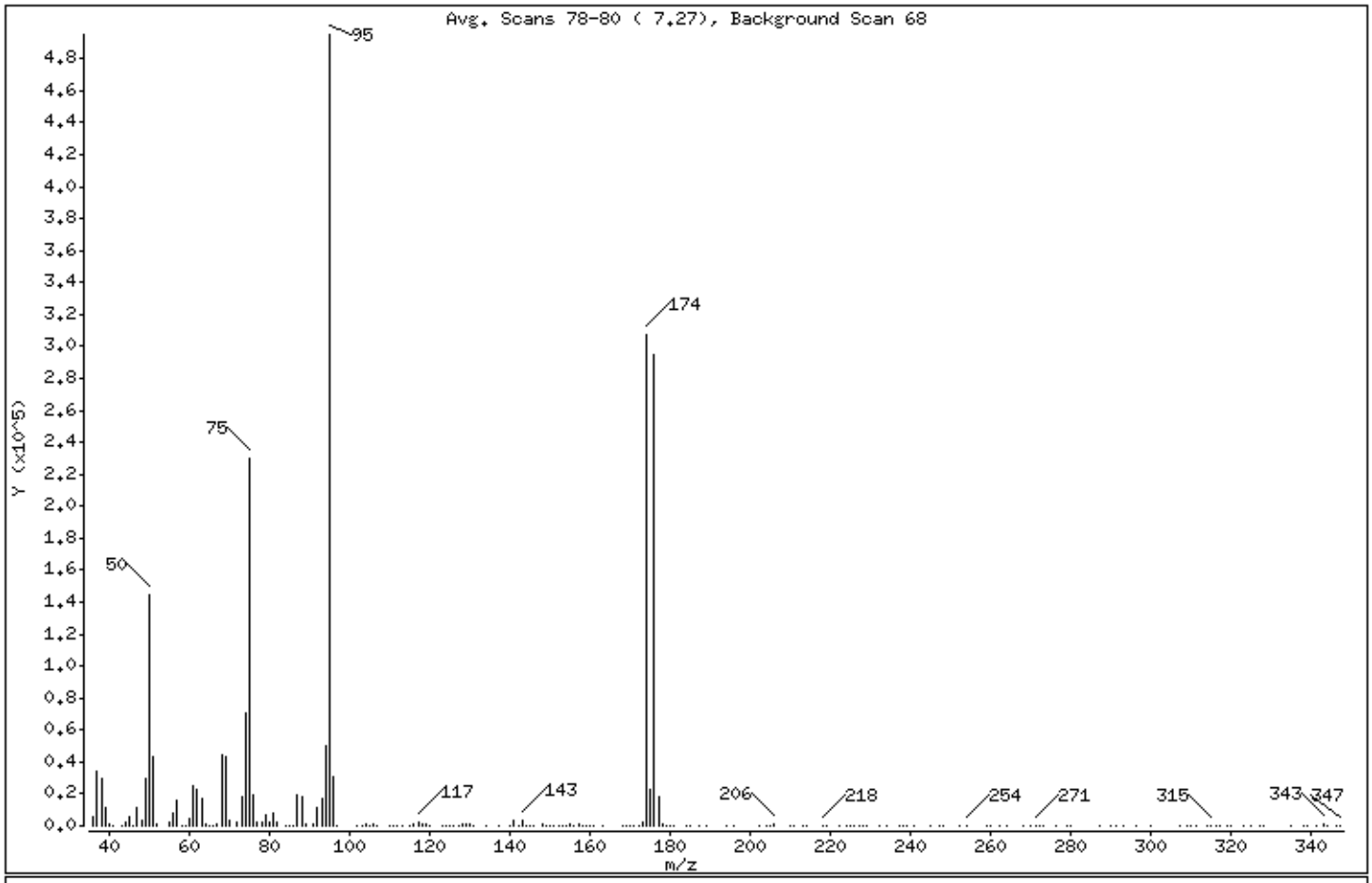
Volume Injected (uL): 1.0

Operator: kr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	29.30
75	30.00 - 60.00% of mass 95	46.45
96	5.00 - 9.00% of mass 95	6.22
173	Less than 2.00% of mass 174	0.44 (0.71)
174	50.00 - 100.00% of mass 95	62.10
175	5.00 - 9.00% of mass 174	4.71 (7.58)
176	95.00 - 101.00% of mass 174	59.48 (95.79)
177	5.00 - 9.00% of mass 176	3.79 (6.38)

Date : 30-SEP-2008 17:59

Client ID: BFB Instrument: msdy.i

Sample Info: 2uL #1476-477;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: kr

Column phase: Column diameter: 2.00

Data File: y093005.d
Spectrum: Avg. Scans 78-80 (7.27), Background Scan 68
Location of Maximum: 95.00
Number of points: 193

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5686	91.00	931	156.00	246	241.00	102
37.00	33608	92.00	11541	157.00	761	245.00	121
38.00	29064	93.00	17328	158.00	140	247.00	519
39.00	11917	94.00	49904	159.00	363	248.00	155
40.00	573	95.00	495040	160.00	75	252.00	82
41.00	10	96.00	30808	161.00	61	254.00	569
43.00	304	97.00	84	163.00	108	259.00	94
44.00	1957	102.00	144	168.00	146	260.00	118
45.00	5772	103.00	88	169.00	119	262.00	39
46.00	313	104.00	1223	170.00	180	264.00	43
47.00	11822	105.00	191	171.00	237	268.00	46
48.00	3877	106.00	1437	172.00	550	270.00	185
49.00	29856	107.00	255	173.00	2182	271.00	189
50.00	145024	110.00	455	174.00	307392	272.00	91
51.00	43552	111.00	301	175.00	23304	273.00	135
52.00	1472	112.00	120	176.00	294464	276.00	2
55.00	1765	113.00	341	177.00	18776	279.00	121
56.00	8383	115.00	122	178.00	673	280.00	37
57.00	15973	116.00	1146	179.00	82	287.00	53
58.00	176	117.00	1897	180.00	83	290.00	16
59.00	546	118.00	1251	181.00	150	291.00	66
60.00	4975	119.00	1403	184.00	50	293.00	14
61.00	24768	120.00	181	185.00	76	296.00	115
62.00	23104	123.00	2	187.00	109	300.00	54
63.00	17016	124.00	347	189.00	157	307.00	76
64.00	1610	125.00	125	194.00	166	309.00	98
65.00	227	126.00	376	196.00	4	310.00	132
66.00	128	127.00	375	202.00	75	311.00	39
67.00	1234	128.00	1280	204.00	116	314.00	97
68.00	44328	129.00	578	205.00	185	315.00	170
69.00	43552	130.00	1305	206.00	1561	316.00	71
70.00	2974	131.00	127	210.00	261	317.00	50
72.00	2285	134.00	290	211.00	194	319.00	104
73.00	17824	137.00	383	213.00	178	320.00	92
74.00	70104	140.00	511	214.00	63	323.00	18

Date : 30-SEP-2008 17:59

Client ID: BFB Instrument: msdy.i

Sample Info: 2uL #1476-477;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: kr

Column phase: Column diameter: 2.00

Data File: y093005.d
Spectrum: Avg. Scans 78-80 (7.27), Background Scan 68
Location of Maximum: 95.00
Number of points: 193

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	229952	141.00	2852	218.00	544	325.00	13
76.00	19720	142.00	391	219.00	100	327.00	42
77.00	2162	143.00	3256	222.00	146	328.00	256
78.00	1782	144.00	61	224.00	150	335.00	141
79.00	7334	145.00	162	225.00	106	338.00	70
80.00	2713	146.00	48	226.00	61	339.00	78
81.00	7776	148.00	900	227.00	84	341.00	151
82.00	1788	149.00	334	228.00	56	343.00	637
84.00	154	150.00	377	229.00	61	344.00	473
85.00	110	151.00	303	232.00	206	346.00	164
86.00	525	152.00	162	234.00	146	347.00	24
87.00	19784	153.00	249	237.00	124		
88.00	18744	154.00	390	238.00	285		
89.00	739	155.00	719	239.00	36		

Air Toxics Ltd.

Data file : /chem/msdy.i/02oct08.b/y100201.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 02-OCT-2008 11:13
Operator : smd Inst ID: msdy.i
Smp Info : 2uL #1476-477;BFB Tune Check;BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msdy.i/02oct08.b/bfb60.m
Meth Date : 02-Oct-2008 11:03 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
7.271	7.299	-0.028	95	624576			100.00- 100.00	100.00
7.271	7.299	-0.028	50	170112			15.00- 40.00	27.24
7.271	7.299	-0.028	75	283712			30.00- 60.00	45.42
7.271	7.299	-0.028	96	50680			5.00- 9.00	8.11
7.271	7.299	-0.028	173	0			0.00- 2.00	0.00
7.271	7.299	-0.028	174	419904			50.00- 100.00	67.23
7.271	7.299	-0.028	175	33208			5.00- 9.00	7.91
7.271	7.299	-0.028	176	400064			95.00- 101.00	95.28
7.271	7.299	-0.028	177	30280			5.00- 9.00	7.57

Data File: /chem/msdy.i/02oct08.b/y100201.d

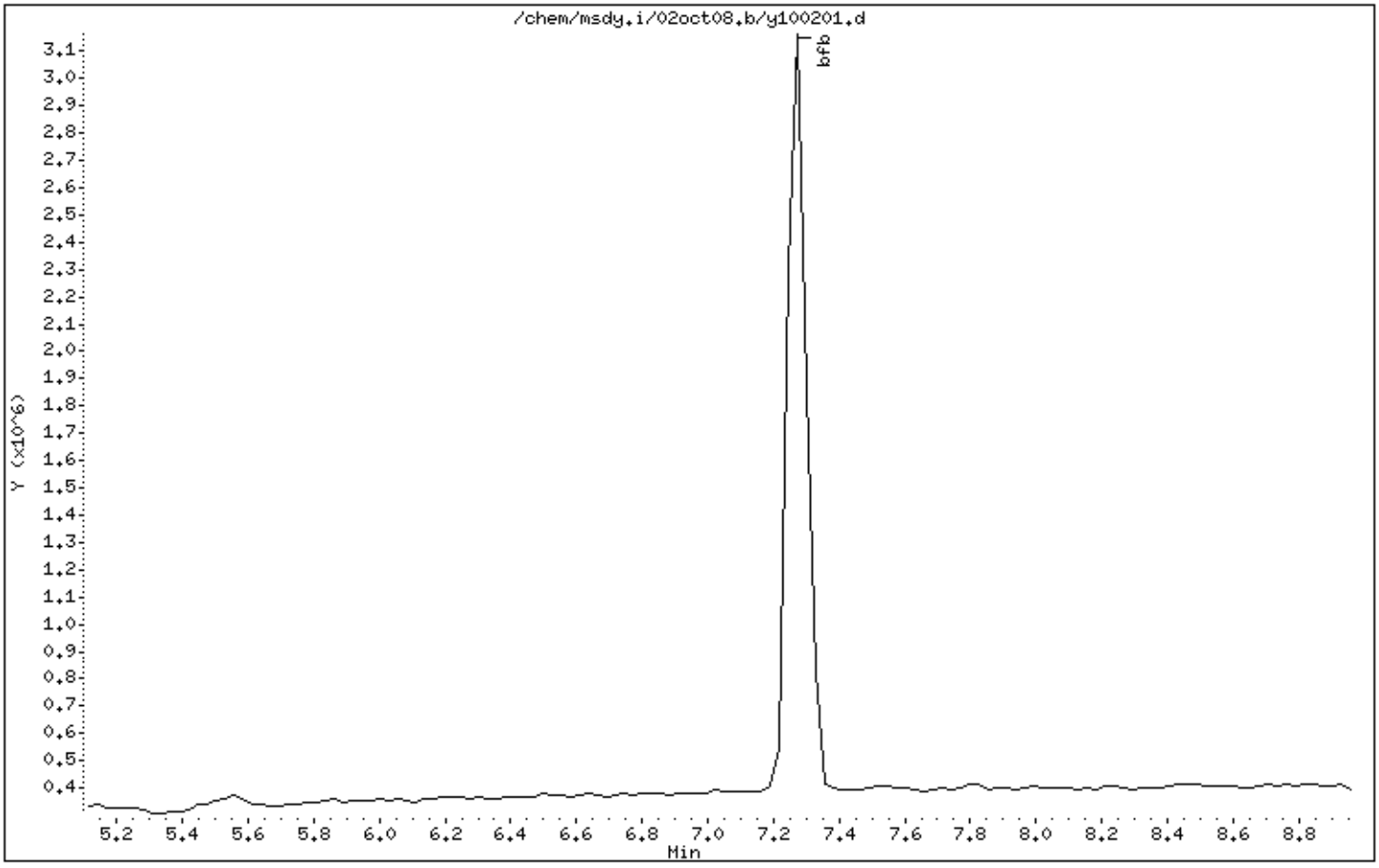
Date : 02-OCT-2008 11:13

Client ID: BFB Instrument: msdy.i

Sample Info: 2uL #1476-477;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: smd

Column phase: Column diameter: 2.00



Data File: /chem/msdy.i/02oct08.b/y100201.d

Date : 02-OCT-2008 11:13

Client ID: BFB

Instrument: msdy.i

Sample Info: 2uL #1476-477;BFB Tune Check;BFB Tune Check

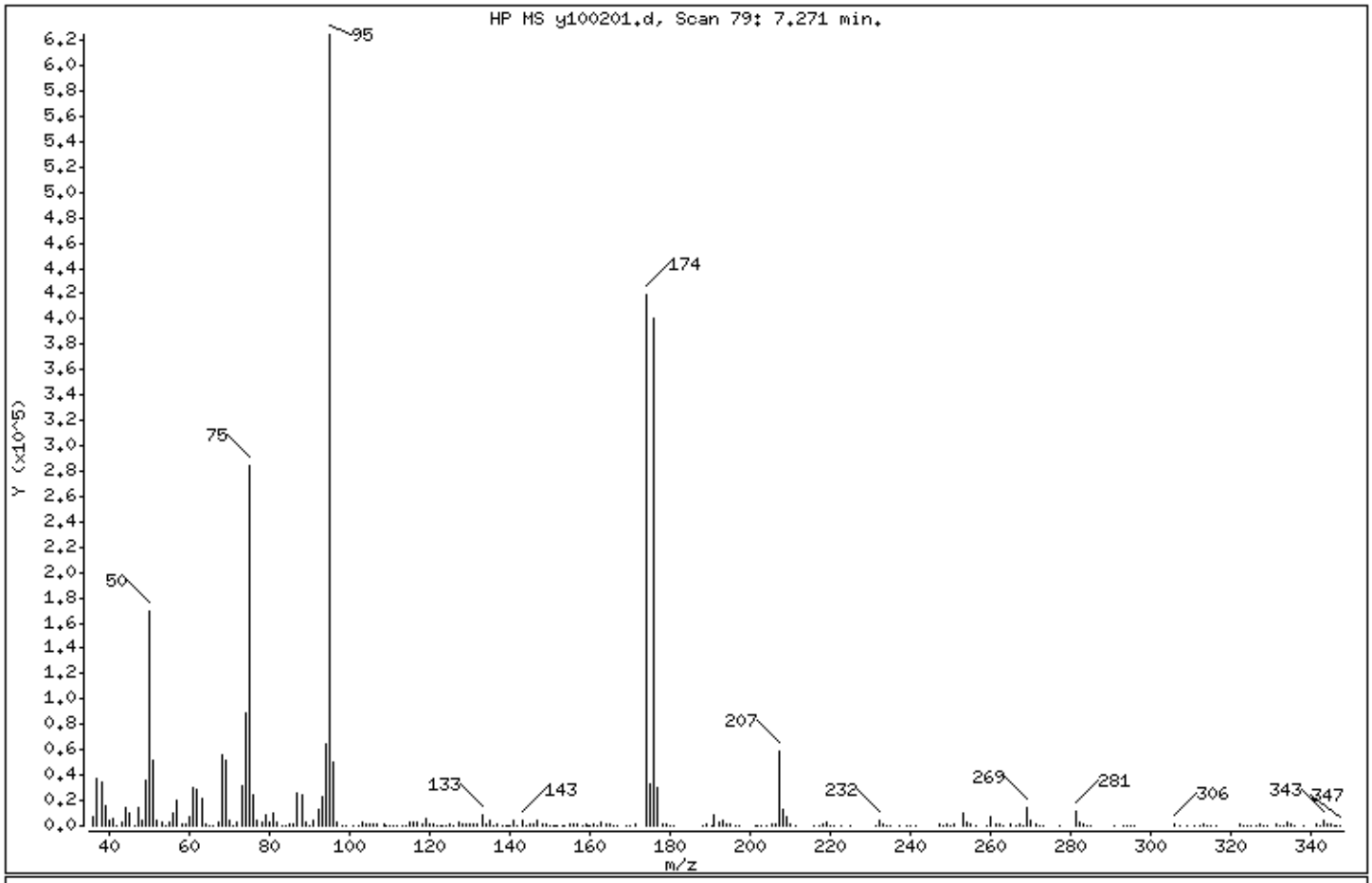
Volume Injected (uL): 1.0

Operator: smd

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	27.24
75	30.00 - 60.00% of mass 95	45.42
96	5.00 - 9.00% of mass 95	8.11
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	67.23
175	5.00 - 9.00% of mass 174	5.32 (7.91)
176	95.00 - 101.00% of mass 174	64.05 (95.28)
177	5.00 - 9.00% of mass 176	4.85 (7.57)

Date : 02-OCT-2008 11:13

Client ID: BFB Instrument: msdy.i

Sample Info: 2uL #1476-477;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: smd

Column phase: Column diameter: 2.00

Data File: y100201.d
Spectrum: HP MS y100201.d, Scan 79: 7.271 min.
Location of Maximum: 95.10
Number of points: 250

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	7051	99.10	203	159.60	219	253.10	9943
37.00	37320	101.00	485	160.10	161	254.10	2216
38.10	34312	102.10	649	161.00	1662	255.10	1291
39.10	15919	103.00	3045	162.00	574	256.10	311
40.10	3629	104.00	2147	162.90	3205	259.10	173
41.10	5467	105.00	1618	164.00	745	260.10	7509
42.00	657	105.90	1639	165.00	1405	261.10	1720
43.00	2211	107.00	893	165.90	445	262.10	1047
44.00	14235	108.60	1582	166.90	277	263.10	353
45.10	9990	109.10	431	169.20	339	265.00	1258
46.20	681	110.00	331	169.90	422	266.10	668
47.10	14891	111.00	597	171.30	734	267.00	1730
48.10	4420	112.00	524	174.00	419904	268.00	666
49.00	35552	113.00	565	175.00	33208	269.10	14917
50.00	170112	114.20	201	176.00	400064	270.10	4180
51.00	52400	115.00	2516	177.00	30280	271.10	2032
52.00	4018	116.10	2609	178.00	1827	272.20	677
53.00	2327	117.00	3121	179.00	1292	273.10	162
54.00	662	118.00	1952	179.90	344	277.00	215
55.00	3005	119.00	5319	181.00	488	281.10	11249
56.00	10669	120.00	920	188.00	325	282.10	2711
57.00	20112	121.00	791	189.00	929	283.00	1638
58.00	1496	122.00	288	190.20	310	284.10	704
59.00	1799	122.70	350	191.00	9199	285.10	261
60.00	6648	123.10	352	192.10	2208	290.90	201
61.00	30552	124.10	288	193.00	4779	293.10	616
62.00	28456	125.00	1020	194.00	874	294.10	539
63.00	20912	126.00	590	195.10	2045	295.10	195
64.10	1627	127.10	2797	196.20	307	296.00	178
65.10	487	128.00	2078	197.10	174	306.00	899
66.00	639	128.90	1148	201.10	225	307.10	569
67.10	2162	130.00	1474	202.00	308	309.10	356
68.00	55304	131.00	1095	202.90	513	311.00	210
69.00	51776	132.00	797	204.00	533	312.10	169
70.00	3853	133.10	8399	205.20	937	313.20	772

Date : 02-OCT-2008 11:13

Client ID: BFB Instrument: msdy.i

Sample Info: 2uL #1476-477;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: smd

Column phase: Column diameter: 2.00

Data File: y100201.d
Spectrum: HP MS y100201.d, Scan 79: 7.271 min.
Location of Maximum: 95.10
Number of points: 250

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.10	658	134.10	1464	206.20	951	314.20	246
72.00	3022	135.10	4828	207.10	59000	315.10	358
73.00	32160	136.10	711	208.10	12873	316.10	327
74.10	89136	137.00	1058	209.10	7084	322.10	1442
75.10	283712	138.30	379	210.10	1109	323.10	717
76.10	24304	139.10	490	211.10	570	324.10	347
77.00	4077	139.70	525	216.00	229	324.90	365
78.00	2989	140.10	519	217.00	531	326.10	232
78.90	9116	141.00	4034	218.10	1056	327.00	1631
80.00	3169	142.00	676	219.10	2411	328.00	619
81.00	10573	143.00	4424	220.10	702	329.10	572
82.00	3123	144.00	406	221.00	717	331.10	987
83.10	574	145.10	824	222.90	689	332.10	219
83.90	262	146.00	1172	225.00	362	333.10	240
85.10	756	147.00	3665	231.10	165	334.10	2302
86.10	725	148.00	1577	232.00	4457	335.10	728
87.00	25904	149.00	1010	233.10	1052	336.00	490
88.00	24216	149.90	567	234.10	440	338.10	161
89.00	2508	151.00	211	235.00	431	341.10	1054
89.90	536	151.50	169	237.00	260	342.00	414
91.00	4427	152.00	288	239.00	647	343.10	3819
92.10	13447	153.00	599	240.10	241	344.10	1093
93.10	23288	153.80	433	241.10	222	345.10	723
94.10	64088	155.00	1178	247.00	1047	345.90	269
95.10	624576	156.00	1078	248.00	205	346.10	263
96.10	50680	157.00	1017	249.00	1741	347.10	180
97.00	2444	158.10	666	249.90	460		
98.10	500	158.90	903	251.00	1092		

Shipping/ Receiving Documents

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

Phone (916) 985-1000 FAX (916) 985-1020
Hours 8:00 A.M. to 6:00 P.M. Pacific

COMPANY: GEI Consultants, Inc.
ATTENTION: Ms. Theresa Landgraff
FAX #:
FROM: Sample Receiving
Workorder #: 0809449
# of pages (Including Cover): 1

10/8/2008

Thank you for selecting Air Toxics Ltd. We have received your samples and have found discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Bryanna Langley at 916-985-1020.**
ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

The following discrepancy has been observed:

The Chain of Custody (COC) information for sample AMS4 DW did not match the information on the canister with regard to canister identification. Unless otherwise notified, ATL will proceed with the analysis using the information on the canister to process and report the sample.

Your prompt response is appreciated.

Receipt VFR 9/26/08

0321

Transportation Notice

Signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling, or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX: (916) 985-1020

ORATORY

CUSTODY RECORD

Company	GEI Consultants, Inc.
Address	455 Winding Brook Glastonbury CT 06033
Phone	860-368-5300 Cell:
Collected By: Signature:	Thomas Tan

Project Info:
P.O. #
Project # 061140 - 8 - 1703
Project Name BayShore OU1 Southern cell Air Monitoring

Turn Around Time:
☒ Normal
☐ Rush _____
Specify

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	AMS4 DW 5766	9/19/08 0545/1345	TO-15 + Naphthalene	-30	-8.5	7.5
02A	AMS-3 DW 5740	9/19/08 0545/1345	TO-15 + Naphthalene	-30	-9	6.5

Relinquished By: (Signature) Date/Time
Thomas K Tan 9/19/08 0545/1345
Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time
Received By: (Signature) Date/Time 9/20/08

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Notes: used flow controllers included initial and final can pressures in inches Hg\
Send Data Pack to Lisa McDonough and EDD to datagroup@geiconsultatns.com

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (C)	Condition	Custody Seals Intact?	Work Order #
	FedEx		MW	NA	good	Yes No (None)	08094149

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0809449

Client

Ms. Theresa Landgraff
GEI Consultants, Inc.
110 Walt Whitman Road
Suite 204
Huntington Station, NY 11746

Sales Rep: TB

Phone

631-760-9300 x 12

Fax

Date Promised: 10/06/08
Date Completed: 10/7/08
Date Received: 9/20/08
PO#: NR
Project#: 061140 - 8 - 1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 589.00
Logged By: EF

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	AMS4 DW	Modified TO-15	9/19/2008	7.5 "Hg	$225.00
02A	AMS-3 UW	Modified TO-15	9/19/2008	6.5 "Hg	$225.00
03A	Lab Blank	Modified TO-15	NA	NA	$0.00
04A	CCV	Modified TO-15	NA	NA	$0.00
05A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (2) @ $50.00 each., Shipment 58432	$100.00
	Blue Body Flow Controller (1) @ $35.00 each., Shipment 58431	$35.00
	Fuel Surcharge (2) @ $2.00 each.	$4.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Bay Shore OU1 South Perimeter Air/9699

BILL TO: Ms. Theresa Landgraff
GEI Consultants, Inc.
110 Walt Whitman Road
Suite 204
Huntington Station, NY 11746

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Sample Discrepancy Report

Identification

Initiated By: EF **Project ID:** 9699 **PM:** BL **Date:** 9/29/2008 **Discrepancy Type:** ☒ 1. ☐ 2. ☐ 3.

Workorder(s) affected: 0809449 **Sample(s) affected:** 01A

1. Sample Receipt Discrepancies

Narration Not Required:

1.1. ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.

1.2. ☐ No brass cap on canister.

1.3. ☐ Date of Collection noted on first sample, but no arrow down to indicate all samples.

Notify Lab for further determination:

1.4. ☐ Tedlar bag received with minimal volume.

Initials: _____ Date: _____

Narration Required in Lab Narrative and Sample Confirmation:

1.5. ☐ COC was not filled out in ink.

1.6. ☐ COC improperly relinquished / received.

1.7. ☒ Sample tags / can numbers do not match the COC.

1.8. ☐ Sample date ☐ error / ☐ missing on COC but noted on sample tag (check one).

1.9. ☐ Custody Seal on the outside of the container was ☐ broken / ☐ improperly placed (check one).

1.10. ☐ ID-none on the sample Tag/Blank

1.11. ☐ Other (describe below).

Describe the Discrepancy: Can 5756 is identified on the COC as 5766.

2. Sample Receipt/Screening Discrepancies requiring PM notification

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

If Section II. is filled out PM must be notified within 24 hrs of initiation

2.1. ☐ COC was not received with samples.

2.2. ☐ Analysis method(s) is ☐ not specified / ☐ incorrectly specified (check one) on the COC.

2.3. ☐ Incorrect sampling media / container for analysis requested.

2.4. ☐ Number of samples on the COC does not match the number of samples that were received.

2.5. ☐ Samples were received expired.

2.6. ☐ Sampling date (time for sulfur) is not documented for ☐ *some* / ☐ *any* samples (check one).

2.7. ☐ Sample received with amount of H_2O in the Tedlar Bag.

2.8. ☐ Sample cannot be analyzed. Container was ☐ received broken / ☐ leaking / ☐ flat / ☐ defective (check one); sample cannot be analyzed.

2.9. ☐ Tedlar bag / canister received emitting a strong odor; Sample ☐ can / ☐ cannot (check one) be analyzed.

2.10. ☐ Tedlar Bag for Sulfur analysis has metal fitting.

2.11. ☐ Environmental Supply Company valves

2.12. ☐ Sorbent samples-sampling volume was not provided

2.13. ☐ Flow controller used – canister samples received at ambient or under pressure.

2.14. ☐ Canister was at ambient pressure at time of pressurization and (check all that apply):

- ☐ Canister failed leak check on two manifolds,
- ☐ Canister valve was open,
- ☐ Brass nut was loose/not present.
- ☐ Sample can / cannot be analyzed (circle one).

2.15. ☐ Canister sample received with a vacuum difference >5.0"Hg between the receipt vac. And the final vac. reported on the COC, indicating loss of vacuum.

2.16. ☐ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).

2.17. ☐ Canister Trip Blank received at low vacuum (< 25"Hg).

2.18. ☐ Sorbent Sample received outside method required temperature of 2°C to 6°C; ☐ ice / ☐ blue ice (check one) was present. A temp. Blank ☐ was / ☐ was not present (check one).

2.19. ☐ Other (describe below)

Initials: _____ **Date:** _____ **Notify Receiving:** ☐ **Notify PM:** ☐

Describe the Discrepancy:

3. Lab Discrepancies requiring Team Leader/PM notification

Document in Analytical Notes of Lab Narrative

If Section III. is filled out PM must be notified within 24 hrs of initiation

3.1. ☐ Tedlar Bag found to be leaking at the time of analysis; sample ☐ can / ☐ cannot (check one) be analyzed.

3.2. ☐ Tedlar Bag found to be flat/low volume; sample cannot be analyzed.

3.3. ☐ Sulfur samples received with insufficient time to analyze prior to expiration.

3.4. ☐ Canister found to be leaking at the time of analysis.

3.5. ☐ VOST tube saturated; bag dilution necessary.

3.6. ☐ Sample loss due to instrument malfunction / broken glassware.

3.7. ☐ Low/high surrogate recoveries noted in QC/sample(s) for extractable samples.

3.8. ☐ Reporting Limit was raised.

3.9. ☐ Post weight > Pre weight in field/lab Blank for PM10/TSP samples.

3.10. ☐ Other (describe below).

Initials: _____ **Date:** _____ **Notify Receiving:** ☐ **Notify PM:** ☐ _____

Team Lead Initials: _____ **Date:** _____

Describe the Discrepancy: _____

_____

_____

How Does this Affect Client: _____

_____

_____

Project Manager Use Only

Project Manager Notification

Action:

☐ It is not necessary to notify the client. Narrate the discrepancy in Receiving Notes/Analytical Notes of Lab Narrative.

PM Initials:_____ Date: _____

☐ Client notification required. See attached client contact / email, or comments below:

Client Notification:

PM Initials:_____ Person notified: _____ Date: _____

Comments: _____

_____

☐ Notify Lab Name: _____ Date: _____ **Notify Receiving:** ☐

☐ **Additional notifications attached.**

Additional Comments:

_____

Other Records

DILUTION FACTORS

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} - [(\text{Initial Pressure ("Hg)}) (14.7 \text{ psi} / 30 \text{ "Hg})]}$$

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} + \text{Initial Pressure (psi)}}$$

Initial Vacuum ("Hg)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.5	1.36	1.71	2.05
1.0	1.39	1.74	2.09
1.5	1.41	1.77	2.13
2.0	1.44	1.80	2.16
2.5	1.46	1.83	2.20
3.0	1.49	1.87	2.24
3.5	1.52	1.90	2.29
4.0	1.55	1.94	2.33
4.5	1.58	1.98	2.38
5.0	1.61	2.02	2.42
5.5	1.64	2.06	2.47
6.0	1.68	2.10	2.53
6.5	1.71	2.15	2.58
7.0	1.75	2.19	2.64
7.5	1.79	2.24	2.69
8.0	1.83	2.29	2.76
8.5	1.87	2.34	2.82
9.0	1.91	2.40	2.89
9.5	1.96	2.46	2.96
10.0	2.01	2.52	3.03
10.5	2.06	2.59	3.11
11.0	2.12	2.65	3.19
11.5	2.17	2.72	3.28
12.0	2.23	2.80	3.37
12.5	2.30	2.88	3.46
13.0	2.36	2.97	3.57
13.5	2.44	3.06	3.67
14.0	2.51	3.15	3.79
14.5	2.59	3.25	3.91
15.0	2.68	3.36	4.04
15.5	2.77	3.48	4.18
16.0	2.87	3.60	4.33
16.5	2.98	3.73	4.49
17.0	3.09	3.88	4.66
17.5	3.22	4.03	4.85
18.0	3.35	4.20	5.05
18.5	3.50	4.38	5.27
19.0	3.65	4.58	5.51
19.5	3.83	4.80	5.77
20.0	4.02	5.04	6.06
20.5	4.23	5.31	6.38
21.0	4.47	5.60	6.73
21.5	4.73	5.93	7.13
22.0	5.03	6.30	7.58
22.5	5.36	6.72	8.08
23.0	5.74	7.20	8.66
23.5	6.19	7.76	9.32
24.0	6.70	8.40	10.10
24.5	7.31	9.17	11.02
25.0	8.04	10.08	12.12
25.5	8.93	11.20	13.47
26.0	10.05	12.60	15.15
26.5	11.49	14.40	17.32
27.0	13.40	16.80	20.20
27.5	16.08	20.16	24.24
28.0	20.10	25.20	30.31
28.5	26.80	33.61	40.41
29.0	40.20	50.41	60.61

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59

DILUTION FACTORS

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} + \text{Initial Pressure (psi)}}$$

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59
4.2	1.04	1.31	1.57
4.4	1.03	1.29	1.55
4.6	1.02	1.28	1.54
4.8	1.01	1.27	1.52
5.0	1.00	1.25	1.51
5.2	NA	1.24	1.49
5.4	NA	1.23	1.48
5.6	NA	1.22	1.46
5.8	NA	1.20	1.45
6.0	NA	1.19	1.43
6.2	NA	1.18	1.42
6.4	NA	1.17	1.41
6.6	NA	1.16	1.39
6.8	NA	1.15	1.38
7.0	NA	1.14	1.37
7.2	NA	1.13	1.36
7.4	NA	1.12	1.34

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
7.6	NA	1.11	1.33
7.8	NA	1.10	1.32
8.0	NA	1.09	1.31
8.2	NA	1.08	1.30
8.4	NA	1.07	1.29
8.6	NA	1.06	1.27
8.8	NA	1.05	1.26
9.0	NA	1.04	1.25
9.2	NA	1.03	1.24
9.4	NA	1.02	1.23
9.6	NA	1.02	1.22
9.8	NA	1.01	1.21
10.0	NA	1.00	1.20
10.2	NA	NA	1.19
10.4	NA	NA	1.18
10.6	NA	NA	1.17
10.8	NA	NA	1.16
11.0	NA	NA	1.16
11.2	NA	NA	1.15
11.4	NA	NA	1.14
11.6	NA	NA	1.13
11.8	NA	NA	1.12
12.0	NA	NA	1.11
12.2	NA	NA	1.10
12.4	NA	NA	1.10
12.6	NA	NA	1.09
12.8	NA	NA	1.08
13.0	NA	NA	1.07
13.2	NA	NA	1.06
13.4	NA	NA	1.06
13.6	NA	NA	1.05
13.8	NA	NA	1.04
14.0	NA	NA	1.03
14.2	NA	NA	1.03
14.4	NA	NA	1.02
14.6	NA	NA	1.01
14.8	NA	NA	1.01

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-71-8	Freon 12	0.50	
76-14-2	Freon 114	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	
67-66-3	Chloroform	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	
56-23-5	Carbon Tetrachloride	0.50	
71-43-2	Benzene	0.50	
107-06-2	1,2-Dichloroethane	0.50	
79-01-6	Trichloroethene	0.50	
78-87-5	1,2-Dichloropropane	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	
108-88-3	Toluene	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	
127-18-4	Tetrachloroethene	0.50	
106-93-4	1,2-Dibromoethane (EDB)	0.50	
108-90-7	Chlorobenzene	0.50	
100-41-4	Ethyl Benzene	0.50	
108-38-3	m,p-Xylene	0.50	
95-47-6	o-Xylene	0.50	
100-42-5	Styrene	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	
108-67-8	1,3,5-Trimethylbenzene	0.50	
95-63-6	1,2,4-Trimethylbenzene	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	
100-44-7	alpha-Chlorotoluene	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	
106-99-0	1,3-Butadiene	0.50	
110-54-3	Hexane	0.50	
110-82-7	Cyclohexane	0.50	
142-82-5	Heptane	0.50	
75-27-4	Bromodichloromethane	0.50	
124-48-1	Dibromochloromethane	0.50	
98-82-8	Cumene	0.50	
103-65-1	Propylbenzene	0.50	
74-87-3	Chloromethane	2.0	
120-82-1	1,2,4-Trichlorobenzene	2.0	
87-68-3	Hexachlorobutadiene	2.0	
67-64-1	Acetone	2.0	
75-15-0	Carbon Disulfide	0.50	
67-63-0	2-Propanol	2.0	
156-60-5	trans-1,2-Dichloroethene	0.50	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.50	
109-99-9	Tetrahydrofuran	0.50	
123-91-1	1,4-Dioxane	2.0	

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
108-10-1	4-Methyl-2-pentanone	0.50	
591-78-6	2-Hexanone	2.0	
75-25-2	Bromoform	0.50	
622-96-8	4-Ethyltoluene	0.50	
64-17-5	Ethanol	2.0	
1634-04-4	Methyl tert-butyl ether	0.50	
91-20-3	Naphthalene	2.0	
107-05-1	3-Chloropropene	2.0	
540-84-1	2,2,4-Trimethylpentane	0.50	
2037-26-5	Toluene-d8		
17060-07-0	1,2-Dichloroethane-d4		
460-00-4	4-Bromofluorobenzene		
75-01-4	Vinyl Chloride	0.50	
74-83-9	Bromomethane	0.50	
75-00-3	Chloroethane	0.50	
75-69-4	Freon 11	0.50	
75-35-4	1,1-Dichloroethene	0.50	
76-13-1	Freon 113	0.50	
75-09-2	Methylene Chloride	0.50	
75-34-3	1,1-Dichloroethane	0.50	

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0807449

A_1	A_2	R	T	M	Q	
☑	☐	☑	☐	☑	☐	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
		☑	☐	☑	☐	The final report has the correct reporting list, special units, and header info.
		☑	☐	☑	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
NA	☐	NA	☐	☐	☐	Corrective Action issued - # _____
NA	☐	NA	☐	☑	☐	Unusual circumstances have been documented in the notes section below

LUMEN *validation report present and initialed* — ***CIRCLE (YES / NO)***

☑	☐	☐	☐	☐	☐	Lab Blank, CCV, LCS and DUP met QC criteria
☑	☐	☐	☐	☐	☐	Hold time is met for all samples
		☐	☐	☐	☐	Appropriate data qualifier flags are applied
		☐	☐	☐	☐	Manual integrations for samples and QC are properly documented
☑	☐	☐	☐		☐	Samples analyzed within the project or method specific clock
		☐	☐			Retention times have been verified
☑	☐	☐	☐		☐	Appropriate ICAL(s) included
		☐	☐	☐	☐	At least one result per sample is verified against the target quant sheets/raw data

☐	☐	☑	☐		☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☑	☐	☑	☐			Correct amount of sample analyzed (i.e. sample not over-diluted)
		☑	☐			Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
		NA	☐			TICs resemble reference spectra
		NA	☐			TICs between duplicate samples are consistent
☑	☑	☐	☐	☑	☐	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
☑	☐	NA	☐			Data for multiple analyses of sample(s) has been evaluated for comparability of results
		☐		NA		Special units for all samples in the final report are correctly calculated
		☑	☐	☑		Manually entered results checked (i.e. TPH/NMOC)
☐	☐	☑				Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
		☐				Chain of Custody scanned correctly
					☐	Verify sample id's vs. chain of custody
☑	☐	☑				Samples pressurized w/ appropriate gas (N_2 or He) ☐ Other (i.e. Tedlar bag, cartridge, sorbent)
☑	☐	☑				Final pressure consistent with canister size (6L vs. 1L)
☑	☐	☑				Verify receipt pressures
☐	☐	☑				Verify canister ID #'s
		☐		☐		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
		☑	☐	☑	☐	Client LUMEN report reviewed for accuracy and completeness

Notes: *(to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)*

A/R: _____

M/Q: _____

A_1/A_2 (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
A_1: NK 10/06/08	R: NK 10/6/08	[illegible] 10/7/08	
A_2:	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 07/28/08

Note (2): Management reviewer and reporting reviewer must be separate individuals.

Not Applicable