

Type I Data Package

Prepared for:

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

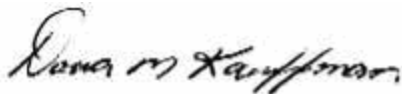
Project: SSP-1428
Air Samples
Collected on 10/09/15-10/12/15

SDG# SSX23

GROUP	SAMPLE NUMBERS
1600626	8087710-8087716

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client.

Authorized by:



Date: 11/10/2015

Dana M. Kauffman
Manager

Any questions or concerns you might have regarding this data package should be directed to your client representative, Natalie Luciano at (717) 556-7258.

Table of Contents for SDG# SSX23

1. Sample Reference List	3
2. Methodology Summary/Reference	4
3. Analysis Reports / Field Chain of Custody	5
4. Unit Conversion Table	37
5. Volatile Organics in Air by GC/MS Data	51
a. Case Narrative/Conformance Summary	52
b. MDL Summary	55
c. QC Summary	60
d. Sample Data	78
e. Standards Data	334
f. Raw QC Data	451
g. Screening Data	510
h. Canister Dilution Calc/Pressure Gauge Readings	525
i. Clean Canister Certification Data	527

**Sample Reference List for SDG Number SSX23
with a Data Package Type of I
20613 - CenterPoint Properties
Project: SSP-1428**

Lab Sample Number	Lab Sample Code	Client Sample Description
8087710	1019-	SVMP-08 Grab Air SUMMA# 1019
8087711	1011-	SVMP-07 Grab Air SUMMA# 1011
8087712	1058-	SVMP-04R Grab Air SUMMA# 1058
8087713	1167-	SVMP-04R DUP Grab Air SUMMA# 1167
8087714	985--	SVMP-02R Grab Air SUMMA# 985
8087715	1014-	SVMP-01R Grab Air SUMMA# 1014
8087716	988--	SVMP-09 Grab Air SUMMA# 988

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 · 717-656-2300 Fax: 717-656-2681 · www.lancasterlabs.com

05298 TO 15 VOA Ext. List

Air samples are collected in passivated SUMMA canisters. A volume of the air is cryogenically trapped and desorbed into a gas chromatograph equipped with a capillary column and interfaced directly to a mass selective (MS) detector.

Reference: EPA Method TO-15, "Methods for the Determination of Toxic Organic Compounds in Air," 1999

Analysis Reports / Field Chain of Custody

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

November 06, 2015

Project: SSP-1428

Submittal Date: 10/14/2015

Group Number: 1600626

SDG: SSX23

State of Sample Origin: MO

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
SVMP-08 Grab Air	8087710
SVMP-07 Grab Air	8087711
SVMP-04R Grab Air	8087712
SVMP-04R DUP Grab Air	8087713
SVMP-02R Grab Air	8087714
SVMP-01R Grab Air	8087715
SVMP-09 Grab Air	8087716

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/> .

ELECTRONIC COPY TO	S.S. Papadopoulos & Assoc Inc.	Attn: Don A. Trego
ELECTRONIC COPY TO	S.S. Papadopoulos & Assoc Inc.	Attn: Rachel Shannon
ELECTRONIC COPY TO	S.S. Papadopoulos & Assoc Inc.	Attn: Harvey A. Cohen

Respectfully Submitted,



Natalie R. Luciano
Senior Specialist

(717) 556-7258

Sample Description: SVMP-08 Grab Air
SUMMA# 1019
SSP-1428

LL Sample # AQ 8087710
LL Group # 1600626
Account # 20613

Project Name: SSP-1428

Collected: 10/09/2015 10:44 by OS
through 10/09/2015 10:50
Submitted: 10/14/2015 09:20
Reported: 11/06/2015 07:13

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

1019- SDG#: SSX23-01

CAT No.	Analysis Name	CAS Number	Final Result	LOQ	Final Result	LOQ	DF
Volatiles in Air		EPA TO-15	ug/m3	ug/m3	ppb (v)	ppb (v)	
05298	Acetone	67-64-1	7.4	4.8	3.1	2.0	1
05298	Benzene	71-43-2	3.2 U	3.2	1.0 U	1.0	1
05298	Bromobenzene	108-86-1	6.4 U	6.4	1.0 U	1.0	1
05298	Bromodichloromethane	75-27-4	6.7 U	6.7	1.0 U	1.0	1
05298	Bromoform	75-25-2	10 U	10	1.0 U	1.0	1
05298	Bromomethane	74-83-9	3.9 U	3.9	1.0 U	1.0	1
05298	1,3-Butadiene	106-99-0	4.4 U	4.4	2.0 U	2.0	1
05298	2-Butanone	78-93-3	1.5 J	5.9	0.51 J	2.0	1
05298	Carbon Disulfide	75-15-0	3.1 U	3.1	1.0 U	1.0	1
05298	Carbon Tetrachloride	56-23-5	6.3 U	6.3	1.0 U	1.0	1
05298	Chlorobenzene	108-90-7	4.6 U	4.6	1.0 U	1.0	1
05298	Chlorodifluoromethane	75-45-6	1.9 J	3.5	0.55 J	1.0	1
05298	Chloroethane	75-00-3	2.6 U	2.6	1.0 U	1.0	1
05298	Chloroform	67-66-3	2.5 J	4.9	0.51 J	1.0	1
05298	Chloromethane	74-87-3	2.1 U	2.1	1.0 U	1.0	1
05298	3-Chloropropene	107-05-1	3.1 U	3.1	1.0 U	1.0	1
05298	Cumene	98-82-8	4.9 U	4.9	1.0 U	1.0	1
05298	Dibromochloromethane	124-48-1	8.5 U	8.5	1.0 U	1.0	1
05298	1,2-Dibromoethane	106-93-4	7.7 U	7.7	1.0 U	1.0	1
05298	Dibromomethane	74-95-3	7.1 U	7.1	1.0 U	1.0	1
05298	1,2-Dichlorobenzene	95-50-1	6.0 U	6.0	1.0 U	1.0	1
05298	1,3-Dichlorobenzene	541-73-1	6.0 U	6.0	1.0 U	1.0	1
05298	1,4-Dichlorobenzene	106-46-7	6.0 U	6.0	1.0 U	1.0	1
05298	Dichlorodifluoromethane	75-71-8	1.5 J	4.9	0.29 J	1.0	1
05298	1,1-Dichloroethane	75-34-3	4.0 U	4.0	1.0 U	1.0	1
05298	1,2-Dichloroethane	107-06-2	4.0 U	4.0	1.0 U	1.0	1
05298	1,1-Dichloroethene	75-35-4	4.0 U	4.0	1.0 U	1.0	1
05298	cis-1,2-Dichloroethene	156-59-2	4.0 U	4.0	1.0 U	1.0	1
05298	trans-1,2-Dichloroethene	156-60-5	4.0 U	4.0	1.0 U	1.0	1
05298	Dichlorofluoromethane	75-43-4	4.2 U	4.2	1.0 U	1.0	1
05298	1,2-Dichloropropane	78-87-5	5.0	4.6	1.1	1.0	1
05298	cis-1,3-Dichloropropene	10061-01-5	4.5 U	4.5	1.0 U	1.0	1
05298	trans-1,3-Dichloropropene	10061-02-6	4.5 U	4.5	1.0 U	1.0	1
05298	Ethylbenzene	100-41-4	1.6 J	4.3	0.37 J	1.0	1
05298	4-Ethyltoluene	622-96-8	4.9 U	4.9	1.0 U	1.0	1
05298	Freon 113	76-13-1	15 U	15	2.0 U	2.0	1
05298	Freon 114	76-14-2	7.0 U	7.0	1.0 U	1.0	1
05298	Heptane	142-82-5	4.1 U	4.1	1.0 U	1.0	1
05298	Hexachloroethane	67-72-1	9.7 U	9.7	1.0 U	1.0	1
05298	Hexane	110-54-3	3.5 U	3.5	1.0 U	1.0	1
05298	2-Hexanone	591-78-6	8.2 U	8.2	2.0 U	2.0	1
05298	Isooctane	540-84-1	4.7 U	4.7	1.0 U	1.0	1
05298	Methyl t-Butyl Ether	1634-04-4	3.6 U	3.6	1.0 U	1.0	1
05298	4-Methyl-2-pentanone	108-10-1	8.2 U	8.2	2.0 U	2.0	1
05298	Methylene Chloride	75-09-2	3.5 U	3.5	1.0 U	1.0	1
05298	Octane	111-65-9	4.7 U	4.7	1.0 U	1.0	1
05298	Pentane	109-66-0	3.0 U	3.0	1.0 U	1.0	1
05298	Styrene	100-42-5	4.3 U	4.3	1.0 U	1.0	1
05298	1,1,1,2-Tetrachloroethane	630-20-6	6.9 U	6.9	1.0 U	1.0	1
05298	1,1,2,2-Tetrachloroethane	79-34-5	6.9 U	6.9	1.0 U	1.0	1
05298	Tetrachloroethene	127-18-4	3.6 J	6.8	0.54 J	1.0	1

Sample Description: SVMP-08 Grab Air
SUMMA# 1019
SSP-1428

LL Sample # AQ 8087710
LL Group # 1600626
Account # 20613

Project Name: SSP-1428

Collected: 10/09/2015 10:44 by OS
through 10/09/2015 10:50
Submitted: 10/14/2015 09:20
Reported: 11/06/2015 07:13

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

1019- SDG#: SSX23-01

CAT No.	Analysis Name	CAS Number	Final Result	LOQ	Final Result	LOQ	DF
Volatiles in Air		EPA TO-15	ug/m3	ug/m3	ppb (v)	ppb (v)	
05298	Toluene	108-88-3	1.1 J	3.8	0.29 J	1.0	1
05298	1,1,1-Trichloroethane	71-55-6	5.5 U	5.5	1.0 U	1.0	1
05298	1,1,2-Trichloroethane	79-00-5	5.5 U	5.5	1.0 U	1.0	1
05298	Trichloroethene	79-01-6	35	5.4	6.5	1.0	1
05298	Trichlorofluoromethane	75-69-4	5.6 U	5.6	1.0 U	1.0	1
05298	1,2,3-Trichloropropane	96-18-4	6.0 U	6.0	1.0 U	1.0	1
05298	1,2,4-Trimethylbenzene	95-63-6	4.9 U	4.9	1.0 U	1.0	1
05298	1,3,5-Trimethylbenzene	108-67-8	4.9 U	4.9	1.0 U	1.0	1
05298	Vinyl Chloride	75-01-4	2.6 U	2.6	1.0 U	1.0	1
05298	m/p-Xylene	179601-23-1	15	4.3	3.3	1.0	1
05298	o-Xylene	95-47-6	3.7 J	4.3	0.86 J	1.0	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

tetrachloroethene

LOQ = Limit of Quantitation

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	C1528830AB	10/17/2015 01:33	Jacob E Bailey	1

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FORM 01 (TIC)
VOLATILE ORGANICS IN AIR
TENTATIVELY IDENTIFIED COMPOUNDS

SDG No.:

Sample Media:	CANISTER	Lab Sample ID:	8087710
Canister ID:	1019	Lab File ID:	cj00363.d
Pressure Received:	27.4 psia	Date Collected:	10/09/2015
Final Pressure:	13.7 psia	Date Received:	10/14/2015
Nominal Volume:	250 cc	Analyzed Date:	10/17/2015
Injection Volume:	500 cc	Analyzed Time:	01:33
Instrument ID:	09464	Dilution Factor:	1

Number TICs Found: 2 Concentration Units: ppb (v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
	Unknown	2.22		1 J
556-67-2	Cyclotetrasiloxane, octamethyl	19.82		1 J
TOTVOATIC	Total Tics			3 J

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
J = The result is between the MDL and LOQ.

FORM I-TIC VOA

Sample Description: SVMP-07 Grab Air
SUMMA# 1011
SSP-1428

LL Sample # AQ 8087711
LL Group # 1600626
Account # 20613

Project Name: SSP-1428

Collected: 10/09/2015 14:13 by OS
through 10/09/2015 14:23
Submitted: 10/14/2015 09:20
Reported: 11/06/2015 07:13

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

1011- SDG#: SSX23-02

CAT No.	Analysis Name	CAS Number	Final Result	LOQ	Final Result	LOQ	DF
Volatiles in Air		EPA TO-15	ug/m3	ug/m3	ppb (v)	ppb (v)	
05298	Acetone	67-64-1	25	4.8	10	2.0	1
05298	Benzene	71-43-2	1.5 J	3.2	0.46 J	1.0	1
05298	Bromobenzene	108-86-1	6.4 U	6.4	1.0 U	1.0	1
05298	Bromodichloromethane	75-27-4	6.7 U	6.7	1.0 U	1.0	1
05298	Bromoform	75-25-2	10 U	10	1.0 U	1.0	1
05298	Bromomethane	74-83-9	3.9 U	3.9	1.0 U	1.0	1
05298	1,3-Butadiene	106-99-0	4.4 U	4.4	2.0 U	2.0	1
05298	2-Butanone	78-93-3	8.6	5.9	2.9	2.0	1
05298	Carbon Disulfide	75-15-0	1.6 J	3.1	0.53 J	1.0	1
05298	Carbon Tetrachloride	56-23-5	6.3 U	6.3	1.0 U	1.0	1
05298	Chlorobenzene	108-90-7	4.6 U	4.6	1.0 U	1.0	1
05298	Chlorodifluoromethane	75-45-6	3.5 U	3.5	1.0 U	1.0	1
05298	Chloroethane	75-00-3	2.6 U	2.6	1.0 U	1.0	1
05298	Chloroform	67-66-3	4.9 U	4.9	1.0 U	1.0	1
05298	Chloromethane	74-87-3	2.1 U	2.1	1.0 U	1.0	1
05298	3-Chloropropene	107-05-1	3.1 U	3.1	1.0 U	1.0	1
05298	Cumene	98-82-8	4.9 U	4.9	1.0 U	1.0	1
05298	Dibromochloromethane	124-48-1	8.5 U	8.5	1.0 U	1.0	1
05298	1,2-Dibromoethane	106-93-4	7.7 U	7.7	1.0 U	1.0	1
05298	Dibromomethane	74-95-3	7.1 U	7.1	1.0 U	1.0	1
05298	1,2-Dichlorobenzene	95-50-1	6.0 U	6.0	1.0 U	1.0	1
05298	1,3-Dichlorobenzene	541-73-1	6.0 U	6.0	1.0 U	1.0	1
05298	1,4-Dichlorobenzene	106-46-7	6.0 U	6.0	1.0 U	1.0	1
05298	Dichlorodifluoromethane	75-71-8	4.9 U	4.9	1.0 U	1.0	1
05298	1,1-Dichloroethane	75-34-3	4.0 U	4.0	1.0 U	1.0	1
05298	1,2-Dichloroethane	107-06-2	4.0 U	4.0	1.0 U	1.0	1
05298	1,1-Dichloroethene	75-35-4	4.0 U	4.0	1.0 U	1.0	1
05298	cis-1,2-Dichloroethene	156-59-2	22	4.0	5.6	1.0	1
05298	trans-1,2-Dichloroethene	156-60-5	4.0 U	4.0	1.0 U	1.0	1
05298	Dichlorofluoromethane	75-43-4	4.2 U	4.2	1.0 U	1.0	1
05298	1,2-Dichloropropane	78-87-5	4.6 U	4.6	1.0 U	1.0	1
05298	cis-1,3-Dichloropropene	10061-01-5	4.5 U	4.5	1.0 U	1.0	1
05298	trans-1,3-Dichloropropene	10061-02-6	4.5 U	4.5	1.0 U	1.0	1
05298	Ethylbenzene	100-41-4	4.3 U	4.3	1.0 U	1.0	1
05298	4-Ethyltoluene	622-96-8	4.9 U	4.9	1.0 U	1.0	1
05298	Freon 113	76-13-1	15 U	15	2.0 U	2.0	1
05298	Freon 114	76-14-2	7.0 U	7.0	1.0 U	1.0	1
05298	Heptane	142-82-5	1.6 J	4.1	0.39 J	1.0	1
05298	Hexachloroethane	67-72-1	9.7 U	9.7	1.0 U	1.0	1
05298	Hexane	110-54-3	2.7 J	3.5	0.78 J	1.0	1
05298	2-Hexanone	591-78-6	8.2 U	8.2	2.0 U	2.0	1
05298	Isooctane	540-84-1	4.7 U	4.7	1.0 U	1.0	1
05298	Methyl t-Butyl Ether	1634-04-4	3.6 U	3.6	1.0 U	1.0	1
05298	4-Methyl-2-pentanone	108-10-1	8.2 U	8.2	2.0 U	2.0	1
05298	Methylene Chloride	75-09-2	3.5 U	3.5	1.0 U	1.0	1
05298	Octane	111-65-9	4.7 U	4.7	1.0 U	1.0	1
05298	Pentane	109-66-0	21	3.0	7.1	1.0	1
05298	Styrene	100-42-5	4.3 U	4.3	1.0 U	1.0	1
05298	1,1,1,2-Tetrachloroethane	630-20-6	6.9 U	6.9	1.0 U	1.0	1
05298	1,1,2,2-Tetrachloroethane	79-34-5	6.9 U	6.9	1.0 U	1.0	1
05298	Tetrachloroethene	127-18-4	3.7 J	6.8	0.55 J	1.0	1

Sample Description: SVMP-07 Grab Air
SUMMA# 1011
SSP-1428

LL Sample # AQ 8087711
LL Group # 1600626
Account # 20613

Project Name: SSP-1428

Collected: 10/09/2015 14:13 by OS
through 10/09/2015 14:23
Submitted: 10/14/2015 09:20
Reported: 11/06/2015 07:13

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

1011- SDG#: SSX23-02

CAT No.	Analysis Name	CAS Number	Final Result	LOQ	Final Result	LOQ	DF
Volatiles in Air		EPA TO-15	ug/m3	ug/m3	ppb (v)	ppb (v)	
05298	Toluene	108-88-3	0.90 J	3.8	0.24 J	1.0	1
05298	1,1,1-Trichloroethane	71-55-6	5.5 U	5.5	1.0 U	1.0	1
05298	1,1,2-Trichloroethane	79-00-5	5.5 U	5.5	1.0 U	1.0	1
05298	Trichloroethene	79-01-6	5.0 J	5.4	0.93 J	1.0	1
05298	Trichlorofluoromethane	75-69-4	5.6 U	5.6	1.0 U	1.0	1
05298	1,2,3-Trichloropropane	96-18-4	6.0 U	6.0	1.0 U	1.0	1
05298	1,2,4-Trimethylbenzene	95-63-6	4.9 U	4.9	1.0 U	1.0	1
05298	1,3,5-Trimethylbenzene	108-67-8	4.9 U	4.9	1.0 U	1.0	1
05298	Vinyl Chloride	75-01-4	2.6 U	2.6	1.0 U	1.0	1
05298	m/p-Xylene	179601-23-1	1.0 J	4.3	0.23 J	1.0	1
05298	o-Xylene	95-47-6	4.3 U	4.3	1.0 U	1.0	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: tetrachloroethene

LOQ = Limit of Quantitation

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	C1528830AB	10/17/2015 02:21	Jacob E Bailey	1

FORM 01 (TIC)
VOLATILE ORGANICS IN AIR
TENTATIVELY IDENTIFIED COMPOUNDS

SDG No.:

Sample Media:	CANISTER	Lab Sample ID:	8087711
Canister ID:	1011	Lab File ID:	cj00364.d
Pressure Received:	27.8 psia	Date Collected:	10/09/2015
Final Pressure:	13.9 psia	Date Received:	10/14/2015
Nominal Volume:	250 cc	Analyzed Date:	10/17/2015
Injection Volume:	500 cc	Analyzed Time:	02:21
Instrument ID:	09464	Dilution Factor:	1

Number TICs Found: 12 Concentration Units: ppb (v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
	Unknown	1.78	150	J
	Unknown	1.84	5	J
	Unknown	1.91	35	J
	Unknown	1.95	14	J
75-28-5	Isobutane	2.03	19	J
75-28-5	Isobutane	2.08	13	J
	Unknown	2.13	4	J
	Unknown	2.20	10	J
	Unknown	2.25	14	J
	Unknown	2.38	10	J
78-78-4	Butane, 2-methyl-	2.84	12	J
541-05-9	Cyclotrisiloxane, hexamethyl-	13.70	3	J
TOTVOATIC	Total Tics		290	J

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
J = The result is between the MDL and LOQ.

FORM I-TIC VOA

Sample Description: SVMP-04R Grab Air
SUMMA# 1058
SSP-1428

LL Sample # AQ 8087712
LL Group # 1600626
Account # 20613

Project Name: SSP-1428

Collected: 10/10/2015 09:41 by OS
through 10/10/2015 09:47
Submitted: 10/14/2015 09:20
Reported: 11/06/2015 07:13

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

1058- SDG#: SSX23-03

CAT No.	Analysis Name	CAS Number	Final Result	LOQ	Final Result	LOQ	DF
Volatiles in Air		EPA TO-15	ug/m3	ug/m3	ppb (v)	ppb (v)	
05298	Acetone	67-64-1	38 J	48	16 J	20	10
05298	Benzene	71-43-2	32 U	32	10 U	10	10
05298	Bromobenzene	108-86-1	64 U	64	10 U	10	10
05298	Bromodichloromethane	75-27-4	67 U	67	10 U	10	10
05298	Bromoform	75-25-2	100 U	100	10 U	10	10
05298	Bromomethane	74-83-9	39 U	39	10 U	10	10
05298	1,3-Butadiene	106-99-0	44 U	44	20 U	20	10
05298	2-Butanone	78-93-3	59 U	59	20 U	20	10
05298	Carbon Disulfide	75-15-0	31 U	31	10 U	10	10
05298	Carbon Tetrachloride	56-23-5	63 U	63	10 U	10	10
05298	Chlorobenzene	108-90-7	46 U	46	10 U	10	10
05298	Chlorodifluoromethane	75-45-6	35 U	35	10 U	10	10
05298	Chloroethane	75-00-3	26 U	26	10 U	10	10
05298	Chloroform	67-66-3	49 U	49	10 U	10	10
05298	Chloromethane	74-87-3	21 U	21	10 U	10	10
05298	3-Chloropropene	107-05-1	31 U	31	10 U	10	10
05298	Cumene	98-82-8	49 U	49	10 U	10	10
05298	Dibromochloromethane	124-48-1	85 U	85	10 U	10	10
05298	1,2-Dibromoethane	106-93-4	77 U	77	10 U	10	10
05298	Dibromomethane	74-95-3	71 U	71	10 U	10	10
05298	1,2-Dichlorobenzene	95-50-1	60 U	60	10 U	10	10
05298	1,3-Dichlorobenzene	541-73-1	60 U	60	10 U	10	10
05298	1,4-Dichlorobenzene	106-46-7	60 U	60	10 U	10	10
05298	Dichlorodifluoromethane	75-71-8	49 U	49	10 U	10	10
05298	1,1-Dichloroethane	75-34-3	40 U	40	10 U	10	10
05298	1,2-Dichloroethane	107-06-2	40 U	40	10 U	10	10
05298	1,1-Dichloroethene	75-35-4	40 U	40	10 U	10	10
05298	cis-1,2-Dichloroethene	156-59-2	40 U	40	10 U	10	10
05298	trans-1,2-Dichloroethene	156-60-5	40 U	40	10 U	10	10
05298	Dichlorofluoromethane	75-43-4	42 U	42	10 U	10	10
05298	1,2-Dichloropropane	78-87-5	46 U	46	10 U	10	10
05298	cis-1,3-Dichloropropene	10061-01-5	45 U	45	10 U	10	10
05298	trans-1,3-Dichloropropene	10061-02-6	45 U	45	10 U	10	10
05298	Ethylbenzene	100-41-4	67 U	43	15	10	10
05298	4-Ethyltoluene	622-96-8	49 U	49	10 U	10	10
05298	Freon 113	76-13-1	150 U	150	20 U	20	10
05298	Freon 114	76-14-2	70 U	70	10 U	10	10
05298	Heptane	142-82-5	41 U	41	10 U	10	10
05298	Hexachloroethane	67-72-1	97 U	97	10 U	10	10
05298	Hexane	110-54-3	35 U	35	10 U	10	10
05298	2-Hexanone	591-78-6	82 U	82	20 U	20	10
05298	Isooctane	540-84-1	47 U	47	10 U	10	10
05298	Methyl t-Butyl Ether	1634-04-4	36 U	36	10 U	10	10
05298	4-Methyl-2-pentanone	108-10-1	82 U	82	20 U	20	10
05298	Methylene Chloride	75-09-2	35 U	35	10 U	10	10
05298	Octane	111-65-9	47 U	47	10 U	10	10
05298	Pentane	109-66-0	30 U	30	10 U	10	10
05298	Styrene	100-42-5	43 U	43	10 U	10	10
05298	1,1,1,2-Tetrachloroethane	630-20-6	69 U	69	10 U	10	10
05298	1,1,2,2-Tetrachloroethane	79-34-5	69 U	69	10 U	10	10
05298	Tetrachloroethene	127-18-4	130	68	20	10	10

Sample Description: SVMP-04R Grab Air
SUMMA# 1058
SSP-1428

LL Sample # AQ 8087712
LL Group # 1600626
Account # 20613

Project Name: SSP-1428

Collected: 10/10/2015 09:41 by OS
through 10/10/2015 09:47
Submitted: 10/14/2015 09:20
Reported: 11/06/2015 07:13

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

1058- SDG#: SSX23-03

CAT No.	Analysis Name	CAS Number	Final Result	LOQ	Final Result	LOQ	DF
Volatiles in Air		EPA TO-15	ug/m3	ug/m3	ppb (v)	ppb (v)	
05298	Toluene	108-88-3	31 J	38	8.3 J	10	10
05298	1,1,1-Trichloroethane	71-55-6	14 J	55	2.6 J	10	10
05298	1,1,2-Trichloroethane	79-00-5	55 U	55	10 U	10	10
05298	Trichloroethene	79-01-6	77	54	14	10	10
05298	Trichlorofluoromethane	75-69-4	56 U	56	10 U	10	10
05298	1,2,3-Trichloropropane	96-18-4	60 U	60	10 U	10	10
05298	1,2,4-Trimethylbenzene	95-63-6	49 U	49	10 U	10	10
05298	1,3,5-Trimethylbenzene	108-67-8	49 U	49	10 U	10	10
05298	Vinyl Chloride	75-01-4	26 U	26	10 U	10	10
05298	m/p-Xylene	179601-23-1	530	43	120	10	10
05298	o-Xylene	95-47-6	140	43	33	10	10

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

tetrachloroethene

Reporting limits were raised due to interference from the sample matrix.

LOQ = Limit of Quantitation

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	C1528830AC	10/19/2015 19:35	Jacob E Bailey	10

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FORM 01 (TIC)
VOLATILE ORGANICS IN AIR
TENTATIVELY IDENTIFIED COMPOUNDS

SDG No.:

Sample Media:	CANISTER	Lab Sample ID:	8087712
Canister ID:	1058	Lab File ID:	cj00390.d
Pressure Received:	27.1 psia	Date Collected:	10/10/2015
Final Pressure:	13.6 psia	Date Received:	10/14/2015
Nominal Volume:	250 cc	Analyzed Date:	10/19/2015
Injection Volume:	50 cc	Analyzed Time:	19:35
Instrument ID:	09464	Dilution Factor:	10

Number TICs Found: 1 Concentration Units: ppb (v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
106-97-8	Butane	2.22	10	J
TOTVOATIC	Total Tics		10	J

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
J = The result is between the MDL and LOQ.

FORM I-TIC VOA

Sample Description: SVMP-04R DUP Grab Air
SUMMA# 1167
SSP-1428

LL Sample # AQ 8087713
LL Group # 1600626
Account # 20613

Project Name: SSP-1428

Collected: 10/10/2015 09:41 by OS
through 10/10/2015 09:47
Submitted: 10/14/2015 09:20
Reported: 11/06/2015 07:13

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

1167- SDG#: SSX23-04FD

CAT No.	Analysis Name	CAS Number	Final Result	LOQ	Final Result	LOQ	DF
Volatiles in Air		EPA TO-15	ug/m3	ug/m3	ppb (v)	ppb (v)	
05298	Acetone	67-64-1	83	4.8	35	2.0	1
05298	Benzene	71-43-2	1.9 J	3.2	0.59 J	1.0	1
05298	Bromobenzene	108-86-1	6.4 U	6.4	1.0 U	1.0	1
05298	Bromodichloromethane	75-27-4	6.7 U	6.7	1.0 U	1.0	1
05298	Bromoform	75-25-2	10 U	10	1.0 U	1.0	1
05298	Bromomethane	74-83-9	3.9 U	3.9	1.0 U	1.0	1
05298	1,3-Butadiene	106-99-0	4.4 U	4.4	2.0 U	2.0	1
05298	2-Butanone	78-93-3	15	5.9	5.1	2.0	1
05298	Carbon Disulfide	75-15-0	3.1 U	3.1	1.0 U	1.0	1
05298	Carbon Tetrachloride	56-23-5	6.3 U	6.3	1.0 U	1.0	1
05298	Chlorobenzene	108-90-7	4.6 U	4.6	1.0 U	1.0	1
05298	Chlorodifluoromethane	75-45-6	3.4 J	3.5	0.97 J	1.0	1
05298	Chloroethane	75-00-3	2.6 U	2.6	1.0 U	1.0	1
05298	Chloroform	67-66-3	1.7 J	4.9	0.35 J	1.0	1
05298	Chloromethane	74-87-3	2.1 U	2.1	1.0 U	1.0	1
05298	3-Chloropropene	107-05-1	3.1 U	3.1	1.0 U	1.0	1
05298	Cumene	98-82-8	5.6	4.9	1.1	1.0	1
05298	Dibromochloromethane	124-48-1	8.5 U	8.5	1.0 U	1.0	1
05298	1,2-Dibromoethane	106-93-4	7.7 U	7.7	1.0 U	1.0	1
05298	Dibromomethane	74-95-3	7.1 U	7.1	1.0 U	1.0	1
05298	1,2-Dichlorobenzene	95-50-1	6.0 U	6.0	1.0 U	1.0	1
05298	1,3-Dichlorobenzene	541-73-1	6.0 U	6.0	1.0 U	1.0	1
05298	1,4-Dichlorobenzene	106-46-7	6.0 U	6.0	1.0 U	1.0	1
05298	Dichlorodifluoromethane	75-71-8	2.8 J	4.9	0.56 J	1.0	1
05298	1,1-Dichloroethane	75-34-3	4.0 U	4.0	1.0 U	1.0	1
05298	1,2-Dichloroethane	107-06-2	4.0 U	4.0	1.0 U	1.0	1
05298	1,1-Dichloroethene	75-35-4	4.0 U	4.0	1.0 U	1.0	1
05298	cis-1,2-Dichloroethene	156-59-2	4.0 U	4.0	1.0 U	1.0	1
05298	trans-1,2-Dichloroethene	156-60-5	4.0 U	4.0	1.0 U	1.0	1
05298	Dichlorofluoromethane	75-43-4	4.2 U	4.2	1.0 U	1.0	1
05298	1,2-Dichloropropane	78-87-5	4.6 U	4.6	1.0 U	1.0	1
05298	cis-1,3-Dichloropropene	10061-01-5	4.5 U	4.5	1.0 U	1.0	1
05298	trans-1,3-Dichloropropene	10061-02-6	4.5 U	4.5	1.0 U	1.0	1
05298	Ethylbenzene	100-41-4	160	4.3	37	1.0	1
05298	4-Ethyltoluene	622-96-8	3.8 J	4.9	0.77 J	1.0	1
05298	Freon 113	76-13-1	5.8 J	15	0.76 J	2.0	1
05298	Freon 114	76-14-2	7.0 U	7.0	1.0 U	1.0	1
05298	Heptane	142-82-5	2.6 J	4.1	0.63 J	1.0	1
05298	Hexachloroethane	67-72-1	9.7 U	9.7	1.0 U	1.0	1
05298	Hexane	110-54-3	3.5 U	3.5	1.0 U	1.0	1
05298	2-Hexanone	591-78-6	8.2 U	8.2	2.0 U	2.0	1
05298	Isooctane	540-84-1	4.7 U	4.7	1.0 U	1.0	1
05298	Methyl t-Butyl Ether	1634-04-4	3.6 U	3.6	1.0 U	1.0	1
05298	4-Methyl-2-pentanone	108-10-1	3.3 J	8.2	0.80 J	2.0	1
05298	Methylene Chloride	75-09-2	3.5 U	3.5	1.0 U	1.0	1
05298	Octane	111-65-9	4.7 U	4.7	1.0 U	1.0	1
05298	Pentane	109-66-0	0.70 J	3.0	0.24 J	1.0	1
05298	Styrene	100-42-5	4.3 U	4.3	1.0 U	1.0	1
05298	1,1,1,2-Tetrachloroethane	630-20-6	6.9 U	6.9	1.0 U	1.0	1
05298	1,1,2,2-Tetrachloroethane	79-34-5	6.9 U	6.9	1.0 U	1.0	1
05298	Tetrachloroethene	127-18-4	210	6.8	30	1.0	1

Sample Description: SVMP-04R DUP Grab Air
SUMMA# 1167
SSP-1428

LL Sample # AQ 8087713
LL Group # 1600626
Account # 20613

Project Name: SSP-1428

Collected: 10/10/2015 09:41 by OS
through 10/10/2015 09:47
Submitted: 10/14/2015 09:20
Reported: 11/06/2015 07:13

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

1167- SDG#: SSX23-04FD

CAT No.	Analysis Name	CAS Number	Final Result	LOQ	Final Result	LOQ	DF
Volatiles in Air		EPA TO-15	ug/m3	ug/m3	ppb (v)	ppb (v)	
05298	Toluene	108-88-3	61	3.8	16	1.0	1
05298	1,1,1-Trichloroethane	71-55-6	19	5.5	3.6	1.0	1
05298	1,1,2-Trichloroethane	79-00-5	5.5 U	5.5	1.0 U	1.0	1
05298	Trichloroethene	79-01-6	100	5.4	19	1.0	1
05298	Trichlorofluoromethane	75-69-4	1.4 J	5.6	0.25 J	1.0	1
05298	1,2,3-Trichloropropane	96-18-4	6.0 U	6.0	1.0 U	1.0	1
05298	1,2,4-Trimethylbenzene	95-63-6	11	4.9	2.2	1.0	1
05298	1,3,5-Trimethylbenzene	108-67-8	4.8 J	4.9	0.97 J	1.0	1
05298	Vinyl Chloride	75-01-4	2.6 U	2.6	1.0 U	1.0	1
05298	m/p-Xylene	179601-23-1	490	43	110	10	10
05298	o-Xylene	95-47-6	140	43	32	10	10

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
tetrachloroethene

LOQ = Limit of Quantitation

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	C1528830AB	10/17/2015 03:56	Jacob E Bailey	1
05298	TO 15 VOA Ext. List	EPA TO-15	1	C1528830AC	10/19/2015 20:18	Jacob E Bailey	10

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FORM 01 (TIC)
VOLATILE ORGANICS IN AIR
TENTATIVELY IDENTIFIED COMPOUNDS

SDG No.:

Sample Media:	CANISTER	Lab Sample ID:	8087713
Canister ID:	1167	Lab File ID:	cj00366.d
Pressure Received:	27.4 psia	Date Collected:	10/10/2015
Final Pressure:	13.7 psia	Date Received:	10/14/2015
Nominal Volume:	250 cc	Analyzed Date:	10/17/2015
Injection Volume:	500 cc	Analyzed Time:	03:56
Instrument ID:	09464	Dilution Factor:	1

Number TICs Found: 6 Concentration Units: ppb (v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
811-97-2	Norflurane	1.82	5	J
106-97-8	Butane	2.22	3	J
75-07-0	Acetaldehyde	2.35	3	J
	Unknown Siloxane	13.70	13	J
	Unknown Siloxane	19.81	4	J
	Unknown Siloxane	28.94	2	J
TOTVOATIC	Total Tics		29	J

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
J = The result is between the MDL and LOQ.

FORM I-TIC VOA

Sample Description: SVMP-02R Grab Air
SUMMA# 985
SSP-1428

LL Sample # AQ 8087714
LL Group # 1600626
Account # 20613

Project Name: SSP-1428

Collected: 10/10/2015 12:32 by OS
through 10/10/2015 12:37
Submitted: 10/14/2015 09:20
Reported: 11/06/2015 07:13

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

985-- SDG#: SSX23-05

CAT No.	Analysis Name	CAS Number	Final Result	LOQ	Final Result	LOQ	DF
Volatiles in Air		EPA TO-15	ug/m3	ug/m3	ppb (v)	ppb (v)	
05298	Acetone	67-64-1	40	4.8	17	2.0	1
05298	Benzene	71-43-2	3.2 U	3.2	1.0 U	1.0	1
05298	Bromobenzene	108-86-1	6.4 U	6.4	1.0 U	1.0	1
05298	Bromodichloromethane	75-27-4	6.7 U	6.7	1.0 U	1.0	1
05298	Bromoform	75-25-2	10 U	10	1.0 U	1.0	1
05298	Bromomethane	74-83-9	3.9 U	3.9	1.0 U	1.0	1
05298	1,3-Butadiene	106-99-0	4.4 U	4.4	2.0 U	2.0	1
05298	2-Butanone	78-93-3	6.1	5.9	2.1	2.0	1
05298	Carbon Disulfide	75-15-0	3.1 U	3.1	1.0 U	1.0	1
05298	Carbon Tetrachloride	56-23-5	6.3 U	6.3	1.0 U	1.0	1
05298	Chlorobenzene	108-90-7	4.6 U	4.6	1.0 U	1.0	1
05298	Chlorodifluoromethane	75-45-6	3.5 U	3.5	1.0 U	1.0	1
05298	Chloroethane	75-00-3	2.6 U	2.6	1.0 U	1.0	1
05298	Chloroform	67-66-3	4.9 U	4.9	1.0 U	1.0	1
05298	Chloromethane	74-87-3	2.1 U	2.1	1.0 U	1.0	1
05298	3-Chloropropene	107-05-1	3.1 U	3.1	1.0 U	1.0	1
05298	Cumene	98-82-8	2.9 J	4.9	0.59 J	1.0	1
05298	Dibromochloromethane	124-48-1	8.5 U	8.5	1.0 U	1.0	1
05298	1,2-Dibromoethane	106-93-4	7.7 U	7.7	1.0 U	1.0	1
05298	Dibromomethane	74-95-3	7.1 U	7.1	1.0 U	1.0	1
05298	1,2-Dichlorobenzene	95-50-1	6.0 U	6.0	1.0 U	1.0	1
05298	1,3-Dichlorobenzene	541-73-1	6.0 U	6.0	1.0 U	1.0	1
05298	1,4-Dichlorobenzene	106-46-7	6.0 U	6.0	1.0 U	1.0	1
05298	Dichlorodifluoromethane	75-71-8	2.7 J	4.9	0.55 J	1.0	1
05298	1,1-Dichloroethane	75-34-3	4.0 U	4.0	1.0 U	1.0	1
05298	1,2-Dichloroethane	107-06-2	4.0 U	4.0	1.0 U	1.0	1
05298	1,1-Dichloroethene	75-35-4	4.0 U	4.0	1.0 U	1.0	1
05298	cis-1,2-Dichloroethene	156-59-2	4.0 U	4.0	1.0 U	1.0	1
05298	trans-1,2-Dichloroethene	156-60-5	4.0 U	4.0	1.0 U	1.0	1
05298	Dichlorofluoromethane	75-43-4	4.2 U	4.2	1.0 U	1.0	1
05298	1,2-Dichloropropane	78-87-5	4.6 U	4.6	1.0 U	1.0	1
05298	cis-1,3-Dichloropropene	10061-01-5	4.5 U	4.5	1.0 U	1.0	1
05298	trans-1,3-Dichloropropene	10061-02-6	4.5 U	4.5	1.0 U	1.0	1
05298	Ethylbenzene	100-41-4	220	4.3	50	1.0	1
05298	4-Ethyltoluene	622-96-8	1.4 J	4.9	0.27 J	1.0	1
05298	Freon 113	76-13-1	35	15	4.5	2.0	1
05298	Freon 114	76-14-2	7.0 U	7.0	1.0 U	1.0	1
05298	Heptane	142-82-5	4.1 U	4.1	1.0 U	1.0	1
05298	Hexachloroethane	67-72-1	9.7 U	9.7	1.0 U	1.0	1
05298	Hexane	110-54-3	3.5 U	3.5	1.0 U	1.0	1
05298	2-Hexanone	591-78-6	8.2 U	8.2	2.0 U	2.0	1
05298	Isooctane	540-84-1	4.7 U	4.7	1.0 U	1.0	1
05298	Methyl t-Butyl Ether	1634-04-4	3.6 U	3.6	1.0 U	1.0	1
05298	4-Methyl-2-pentanone	108-10-1	8.2 U	8.2	2.0 U	2.0	1
05298	Methylene Chloride	75-09-2	3.5 U	3.5	1.0 U	1.0	1
05298	Octane	111-65-9	4.7 U	4.7	1.0 U	1.0	1
05298	Pentane	109-66-0	3.0 U	3.0	1.0 U	1.0	1
05298	Styrene	100-42-5	4.3 U	4.3	1.0 U	1.0	1
05298	1,1,1,2-Tetrachloroethane	630-20-6	6.9 U	6.9	1.0 U	1.0	1
05298	1,1,2,2-Tetrachloroethane	79-34-5	6.9 U	6.9	1.0 U	1.0	1
05298	Tetrachloroethene	127-18-4	55	6.8	8.1	1.0	1

Sample Description: SVMP-02R Grab Air
SUMMA# 985
SSP-1428

LL Sample # AQ 8087714
LL Group # 1600626
Account # 20613

Project Name: SSP-1428

Collected: 10/10/2015 12:32 by OS
through 10/10/2015 12:37
Submitted: 10/14/2015 09:20
Reported: 11/06/2015 07:13

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

985-- SDG#: SSX23-05

CAT No.	Analysis Name	CAS Number	Final Result	LOQ	Final Result	LOQ	DF
Volatiles in Air		EPA TO-15	ug/m3	ug/m3	ppb (v)	ppb (v)	
05298	Toluene	108-88-3	9.2	3.8	2.4	1.0	1
05298	1,1,1-Trichloroethane	71-55-6	5.5 U	5.5	1.0 U	1.0	1
05298	1,1,2-Trichloroethane	79-00-5	5.5 U	5.5	1.0 U	1.0	1
05298	Trichloroethene	79-01-6	48	5.4	8.9	1.0	1
05298	Trichlorofluoromethane	75-69-4	1.7 J	5.6	0.30 J	1.0	1
05298	1,2,3-Trichloropropane	96-18-4	6.0 U	6.0	1.0 U	1.0	1
05298	1,2,4-Trimethylbenzene	95-63-6	1.0 J	4.9	0.21 J	1.0	1
05298	1,3,5-Trimethylbenzene	108-67-8	4.9 U	4.9	1.0 U	1.0	1
05298	Vinyl Chloride	75-01-4	2.6 U	2.6	1.0 U	1.0	1
05298	m/p-Xylene	179601-23-1	200	43	47	10	10
05298	o-Xylene	95-47-6	230	4.3	52	1.0	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
tetrachloroethene

LOQ = Limit of Quantitation

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	C1528830AB	10/17/2015 04:43	Jacob E Bailey	1
05298	TO 15 VOA Ext. List	EPA TO-15	1	C1528830AC	10/19/2015 21:00	Jacob E Bailey	10

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FORM 01 (TIC)
VOLATILE ORGANICS IN AIR
TENTATIVELY IDENTIFIED COMPOUNDS

SDG No.:

Sample Media:	CANISTER	Lab Sample ID:	8087714
Canister ID:	985	Lab File ID:	cj00367.d
Pressure Received:	26.8 psia	Date Collected:	10/10/2015
Final Pressure:	13.4 psia	Date Received:	10/14/2015
Nominal Volume:	250 cc	Analyzed Date:	10/17/2015
Injection Volume:	500 cc	Analyzed Time:	04:43
Instrument ID:	09464	Dilution Factor:	1

Number TICs Found: 5 Concentration Units: ppb (v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
811-97-2	Norflurane	1.82		4 J
75-37-6	Ethane, 1,1-difluoro-	1.87		2 J
106-97-8	Butane	2.22		3 J
75-07-0	Acetaldehyde	2.35		3 J
91-20-3	Naphthalene	26.30		1 J
TOTVOATIC	Total Tics			12 J

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
J = The result is between the MDL and LOQ.

FORM I-TIC VOA

Sample Description: SVMP-01R Grab Air
SUMMA# 1014
SSP-1428

LL Sample # AQ 8087715
LL Group # 1600626
Account # 20613

Project Name: SSP-1428

Collected: 10/10/2015 11:31 by OS
through 10/10/2015 11:35
Submitted: 10/14/2015 09:20
Reported: 11/06/2015 07:13

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

1014- SDG#: SSX23-06

CAT No.	Analysis Name	CAS Number	Final Result	LOQ	Final Result	LOQ	DF
Volatiles in Air		EPA TO-15	ug/m3	ug/m3	ppb (v)	ppb (v)	
05298	Acetone	67-64-1	81	4.8	34	2.0	1
05298	Benzene	71-43-2	1.2 J	3.2	0.37 J	1.0	1
05298	Bromobenzene	108-86-1	6.4 U	6.4	1.0 U	1.0	1
05298	Bromodichloromethane	75-27-4	6.7 U	6.7	1.0 U	1.0	1
05298	Bromoform	75-25-2	10 U	10	1.0 U	1.0	1
05298	Bromomethane	74-83-9	3.9 U	3.9	1.0 U	1.0	1
05298	1,3-Butadiene	106-99-0	4.4 U	4.4	2.0 U	2.0	1
05298	2-Butanone	78-93-3	17	5.9	5.6	2.0	1
05298	Carbon Disulfide	75-15-0	3.1 U	3.1	1.0 U	1.0	1
05298	Carbon Tetrachloride	56-23-5	6.3 U	6.3	1.0 U	1.0	1
05298	Chlorobenzene	108-90-7	4.6 U	4.6	1.0 U	1.0	1
05298	Chlorodifluoromethane	75-45-6	3.5 U	3.5	1.0 U	1.0	1
05298	Chloroethane	75-00-3	2.6 U	2.6	1.0 U	1.0	1
05298	Chloroform	67-66-3	3.1 J	4.9	0.63 J	1.0	1
05298	Chloromethane	74-87-3	2.1 U	2.1	1.0 U	1.0	1
05298	3-Chloropropene	107-05-1	3.1 U	3.1	1.0 U	1.0	1
05298	Cumene	98-82-8	1.1 J	4.9	0.21 J	1.0	1
05298	Dibromochloromethane	124-48-1	8.5 U	8.5	1.0 U	1.0	1
05298	1,2-Dibromoethane	106-93-4	7.7 U	7.7	1.0 U	1.0	1
05298	Dibromomethane	74-95-3	7.1 U	7.1	1.0 U	1.0	1
05298	1,2-Dichlorobenzene	95-50-1	6.0 U	6.0	1.0 U	1.0	1
05298	1,3-Dichlorobenzene	541-73-1	6.0 U	6.0	1.0 U	1.0	1
05298	1,4-Dichlorobenzene	106-46-7	6.0 U	6.0	1.0 U	1.0	1
05298	Dichlorodifluoromethane	75-71-8	2.3 J	4.9	0.46 J	1.0	1
05298	1,1-Dichloroethane	75-34-3	4.0 U	4.0	1.0 U	1.0	1
05298	1,2-Dichloroethane	107-06-2	4.0 U	4.0	1.0 U	1.0	1
05298	1,1-Dichloroethene	75-35-4	4.0 U	4.0	1.0 U	1.0	1
05298	cis-1,2-Dichloroethene	156-59-2	4.0 U	4.0	1.0 U	1.0	1
05298	trans-1,2-Dichloroethene	156-60-5	4.0 U	4.0	1.0 U	1.0	1
05298	Dichlorofluoromethane	75-43-4	4.2 U	4.2	1.0 U	1.0	1
05298	1,2-Dichloropropane	78-87-5	4.6 U	4.6	1.0 U	1.0	1
05298	cis-1,3-Dichloropropene	10061-01-5	4.5 U	4.5	1.0 U	1.0	1
05298	trans-1,3-Dichloropropene	10061-02-6	4.5 U	4.5	1.0 U	1.0	1
05298	Ethylbenzene	100-41-4	50	4.3	11	1.0	1
05298	4-Ethyltoluene	622-96-8	4.9 U	4.9	1.0 U	1.0	1
05298	Freon 113	76-13-1	15 U	15	2.0 U	2.0	1
05298	Freon 114	76-14-2	7.0 U	7.0	1.0 U	1.0	1
05298	Heptane	142-82-5	2.6 J	4.1	0.64 J	1.0	1
05298	Hexachloroethane	67-72-1	9.7 U	9.7	1.0 U	1.0	1
05298	Hexane	110-54-3	3.5 U	3.5	1.0 U	1.0	1
05298	2-Hexanone	591-78-6	4.0 J	8.2	0.97 J	2.0	1
05298	Isooctane	540-84-1	4.7 U	4.7	1.0 U	1.0	1
05298	Methyl t-Butyl Ether	1634-04-4	3.6 U	3.6	1.0 U	1.0	1
05298	4-Methyl-2-pentanone	108-10-1	8.2 U	8.2	2.0 U	2.0	1
05298	Methylene Chloride	75-09-2	3.5 U	3.5	1.0 U	1.0	1
05298	Octane	111-65-9	2.6 J	4.7	0.55 J	1.0	1
05298	Pentane	109-66-0	1.5 J	3.0	0.50 J	1.0	1
05298	Styrene	100-42-5	4.3 U	4.3	1.0 U	1.0	1
05298	1,1,1,2-Tetrachloroethane	630-20-6	6.9 U	6.9	1.0 U	1.0	1
05298	1,1,2,2-Tetrachloroethane	79-34-5	6.9 U	6.9	1.0 U	1.0	1
05298	Tetrachloroethene	127-18-4	6.8 U	6.8	1.0 U	1.0	1

Sample Description: SVMP-01R Grab Air
SUMMA# 1014
SSP-1428

LL Sample # AQ 8087715
LL Group # 1600626
Account # 20613

Project Name: SSP-1428

Collected: 10/10/2015 11:31 by OS
through 10/10/2015 11:35
Submitted: 10/14/2015 09:20
Reported: 11/06/2015 07:13

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

1014- SDG#: SSX23-06

CAT No.	Analysis Name	CAS Number	Final Result	LOQ	Final Result	LOQ	DF
Volatiles in Air		EPA TO-15	ug/m3	ug/m3	ppb (v)	ppb (v)	
05298	Toluene	108-88-3	7.2	3.8	1.9	1.0	1
05298	1,1,1-Trichloroethane	71-55-6	5.5 U	5.5	1.0 U	1.0	1
05298	1,1,2-Trichloroethane	79-00-5	5.5 U	5.5	1.0 U	1.0	1
05298	Trichloroethene	79-01-6	11	5.4	2.0	1.0	1
05298	Trichlorofluoromethane	75-69-4	5.6 U	5.6	1.0 U	1.0	1
05298	1,2,3-Trichloropropane	96-18-4	6.0 U	6.0	1.0 U	1.0	1
05298	1,2,4-Trimethylbenzene	95-63-6	2.1 J	4.9	0.42 J	1.0	1
05298	1,3,5-Trimethylbenzene	108-67-8	1.6 J	4.9	0.32 J	1.0	1
05298	Vinyl Chloride	75-01-4	2.6 U	2.6	1.0 U	1.0	1
05298	m/p-Xylene	179601-23-1	200	4.3	46	1.0	1
05298	o-Xylene	95-47-6	71	4.3	16	1.0	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

tetrachloroethene

LOQ = Limit of Quantitation

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	C1528830AB	10/17/2015 05:30	Jacob E Bailey	1

FORM 01 (TIC)
VOLATILE ORGANICS IN AIR
TENTATIVELY IDENTIFIED COMPOUNDS

SDG No.:

Sample Media:	CANISTER	Lab Sample ID:	8087715
Canister ID:	1014	Lab File ID:	cj00368.d
Pressure Received:	26.7 psia	Date Collected:	10/10/2015
Final Pressure:	13.4 psia	Date Received:	10/14/2015
Nominal Volume:	250 cc	Analyzed Date:	10/17/2015
Injection Volume:	500 cc	Analyzed Time:	05:30
Instrument ID:	09464	Dilution Factor:	1

Number TICs Found: 3 Concentration Units: ppb (v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
811-97-2	Norflurane	1.82	2	J
106-97-8	Butane	2.22	2	J
75-07-0	Acetaldehyde	2.35	2	J
TOTVOATIC	Total Tics		5	J

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
J = The result is between the MDL and LOQ.

FORM I-TIC VOA

Sample Description: SVMP-09 Grab Air
SUMMA# 988
SSP-1428

LL Sample # AQ 8087716
LL Group # 1600626
Account # 20613

Project Name: SSP-1428

Collected: 10/12/2015 10:11 by OS
through 10/12/2015 11:15
Submitted: 10/14/2015 09:20
Reported: 11/06/2015 07:13

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

988-- SDG#: SSX23-07

CAT No.	Analysis Name	CAS Number	Final Result	LOQ	Final Result	LOQ	DF
Volatiles in Air		EPA TO-15	ug/m3	ug/m3	ppb (v)	ppb (v)	
05298	Acetone	67-64-1	30	4.8	13	2.0	1
05298	Benzene	71-43-2	0.90 J	3.2	0.28 J	1.0	1
05298	Bromobenzene	108-86-1	6.4 U	6.4	1.0 U	1.0	1
05298	Bromodichloromethane	75-27-4	6.7 U	6.7	1.0 U	1.0	1
05298	Bromoform	75-25-2	10 U	10	1.0 U	1.0	1
05298	Bromomethane	74-83-9	3.9 U	3.9	1.0 U	1.0	1
05298	1,3-Butadiene	106-99-0	4.4 U	4.4	2.0 U	2.0	1
05298	2-Butanone	78-93-3	13	5.9	4.4	2.0	1
05298	Carbon Disulfide	75-15-0	1.8 J	3.1	0.58 J	1.0	1
05298	Carbon Tetrachloride	56-23-5	6.3 U	6.3	1.0 U	1.0	1
05298	Chlorobenzene	108-90-7	4.6 U	4.6	1.0 U	1.0	1
05298	Chlorodifluoromethane	75-45-6	3.5 U	3.5	1.0 U	1.0	1
05298	Chloroethane	75-00-3	2.6 U	2.6	1.0 U	1.0	1
05298	Chloroform	67-66-3	1.1 J	4.9	0.23 J	1.0	1
05298	Chloromethane	74-87-3	2.1 U	2.1	1.0 U	1.0	1
05298	3-Chloropropene	107-05-1	3.1 U	3.1	1.0 U	1.0	1
05298	Cumene	98-82-8	4.9 U	4.9	1.0 U	1.0	1
05298	Dibromochloromethane	124-48-1	8.5 U	8.5	1.0 U	1.0	1
05298	1,2-Dibromoethane	106-93-4	7.7 U	7.7	1.0 U	1.0	1
05298	Dibromomethane	74-95-3	7.1 U	7.1	1.0 U	1.0	1
05298	1,2-Dichlorobenzene	95-50-1	6.0 U	6.0	1.0 U	1.0	1
05298	1,3-Dichlorobenzene	541-73-1	6.0 U	6.0	1.0 U	1.0	1
05298	1,4-Dichlorobenzene	106-46-7	6.0 U	6.0	1.0 U	1.0	1
05298	Dichlorodifluoromethane	75-71-8	4.9 U	4.9	1.0 U	1.0	1
05298	1,1-Dichloroethane	75-34-3	4.0 U	4.0	1.0 U	1.0	1
05298	1,2-Dichloroethane	107-06-2	4.0 U	4.0	1.0 U	1.0	1
05298	1,1-Dichloroethene	75-35-4	4.0 U	4.0	1.0 U	1.0	1
05298	cis-1,2-Dichloroethene	156-59-2	4.0 U	4.0	1.0 U	1.0	1
05298	trans-1,2-Dichloroethene	156-60-5	4.0 U	4.0	1.0 U	1.0	1
05298	Dichlorofluoromethane	75-43-4	4.2 U	4.2	1.0 U	1.0	1
05298	1,2-Dichloropropane	78-87-5	7.2	4.6	1.6	1.0	1
05298	cis-1,3-Dichloropropene	10061-01-5	4.5 U	4.5	1.0 U	1.0	1
05298	trans-1,3-Dichloropropene	10061-02-6	4.5 U	4.5	1.0 U	1.0	1
05298	Ethylbenzene	100-41-4	7.8	4.3	1.8	1.0	1
05298	4-Ethyltoluene	622-96-8	4.9 U	4.9	1.0 U	1.0	1
05298	Freon 113	76-13-1	15 U	15	2.0 U	2.0	1
05298	Freon 114	76-14-2	7.0 U	7.0	1.0 U	1.0	1
05298	Heptane	142-82-5	2.9 J	4.1	0.71 J	1.0	1
05298	Hexachloroethane	67-72-1	9.7 U	9.7	1.0 U	1.0	1
05298	Hexane	110-54-3	10	3.5	3.0	1.0	1
05298	2-Hexanone	591-78-6	8.2 U	8.2	2.0 U	2.0	1
05298	Isooctane	540-84-1	4.7 U	4.7	1.0 U	1.0	1
05298	Methyl t-Butyl Ether	1634-04-4	3.6 U	3.6	1.0 U	1.0	1
05298	4-Methyl-2-pentanone	108-10-1	8.2 U	8.2	2.0 U	2.0	1
05298	Methylene Chloride	75-09-2	3.5 U	3.5	1.0 U	1.0	1
05298	Octane	111-65-9	4.7 U	4.7	1.0 U	1.0	1
05298	Pentane	109-66-0	34	3.0	12	1.0	1
05298	Styrene	100-42-5	4.3 U	4.3	1.0 U	1.0	1
05298	1,1,1,2-Tetrachloroethane	630-20-6	6.9 U	6.9	1.0 U	1.0	1
05298	1,1,2,2-Tetrachloroethane	79-34-5	6.9 U	6.9	1.0 U	1.0	1
05298	Tetrachloroethene	127-18-4	6.8 U	6.8	1.0 U	1.0	1

Sample Description: SVMP-09 Grab Air
SUMMA# 988
SSP-1428

LL Sample # AQ 8087716
LL Group # 1600626
Account # 20613

Project Name: SSP-1428

Collected: 10/12/2015 10:11 by OS
through 10/12/2015 11:15
Submitted: 10/14/2015 09:20
Reported: 11/06/2015 07:13

CenterPoint Properties
Suite 200
1301 Burlington Street
North Kansas City MO 64116

988-- SDG#: SSX23-07

CAT No.	Analysis Name	CAS Number	Final Result	LOQ	Final Result	LOQ	DF
Volatiles in Air		EPA TO-15	ug/m3	ug/m3	ppb (v)	ppb (v)	
05298	Toluene	108-88-3	11	3.8	3.0	1.0	1
05298	1,1,1-Trichloroethane	71-55-6	5.5 U	5.5	1.0 U	1.0	1
05298	1,1,2-Trichloroethane	79-00-5	5.5 U	5.5	1.0 U	1.0	1
05298	Trichloroethene	79-01-6	190	5.4	36	1.0	1
05298	Trichlorofluoromethane	75-69-4	1.6 J	5.6	0.28 J	1.0	1
05298	1,2,3-Trichloropropane	96-18-4	6.0 U	6.0	1.0 U	1.0	1
05298	1,2,4-Trimethylbenzene	95-63-6	4.9 U	4.9	1.0 U	1.0	1
05298	1,3,5-Trimethylbenzene	108-67-8	4.9 U	4.9	1.0 U	1.0	1
05298	Vinyl Chloride	75-01-4	2.6 U	2.6	1.0 U	1.0	1
05298	m/p-Xylene	179601-23-1	68	4.3	16	1.0	1
05298	o-Xylene	95-47-6	11	4.3	2.5	1.0	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

tetrachloroethene

LOQ = Limit of Quantitation

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	C1528830AB	10/17/2015 06:17	Jacob E Bailey	1

FORM 01 (TIC)
VOLATILE ORGANICS IN AIR
TENTATIVELY IDENTIFIED COMPOUNDS

SDG No.:

Sample Media:	CANISTER	Lab Sample ID:	8087716
Canister ID:	988	Lab File ID:	cj00369.d
Pressure Received:	27.4 psia	Date Collected:	10/12/2015
Final Pressure:	13.7 psia	Date Received:	10/14/2015
Nominal Volume:	250 cc	Analyzed Date:	10/17/2015
Injection Volume:	500 cc	Analyzed Time:	06:17
Instrument ID:	09464	Dilution Factor:	1

Number TICs Found: 11 Concentration Units: ppb (v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
116-15-4	Propene, hexafluoro-	1.74	300	J
	Unknown	1.87	67	J
	Unknown	1.92	23	J
	Unknown	1.99	12	J
106-97-8	Butane	2.21	20	J
	Unknown	2.36	17	J
78-78-4	Butane, 2-methyl-	2.81	6	J
	Unknown	3.44	2	J
96-47-9	Furan, tetrahydro-2-methyl-	4.52	1	J
	Unknown	4.96	1	J
592-41-6	1-Hexene	5.32	3	J
TOTVOATIC	Total Tics		460	J

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
J = The result is between the MDL and LOQ.

FORM I-TIC VOA

Quality Control Summary

Client Name: CenterPoint Properties
Reported: 11/06/2015 07:13

Group Number: 1600626

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>	
Batch number: C1528830AB	Sample number(s): 8087710-8087711, 8087713-8087716								
Acetone	4.8	U	4.8	ug/m3	70	81	61-134	15	25
Benzene	3.2	U	3.2	ug/m3	74	89	70-130	18	25
Bromobenzene	6.4	U	6.4	ug/m3	73	88	70-130	20	25
Bromodichloromethane	6.7	U	6.7	ug/m3	78	91	62-129	16	25
Bromoform	10	U	10.	ug/m3	75	91	64-141	20	25
Bromomethane	3.9	U	3.9	ug/m3	82	98	70-130	17	25
1,3-Butadiene	4.4	U	4.4	ug/m3	84	98	57-138	16	25
2-Butanone	5.9	U	5.9	ug/m3	78	92	60-135	16	25
Carbon Disulfide	3.1	U	3.1	ug/m3	78	89	55-121	13	25
Carbon Tetrachloride	6.3	U	6.3	ug/m3	88	93	70-130	5	25
Chlorobenzene	4.6	U	4.6	ug/m3	74	93	70-130	23	25
Chlorodifluoromethane	3.5	U	3.5	ug/m3	80	91	70-130	13	25
Chloroethane	2.6	U	2.6	ug/m3	80	96	63-119	18	25
Chloroform	4.9	U	4.9	ug/m3	78	86	70-130	10	25
Chloromethane	2.1	U	2.1	ug/m3	89	108	54-118	19	25
3-Chloropropene	3.1	U	3.1	ug/m3	75	84	70-130	11	25
Cumene	4.9	U	4.9	ug/m3	77	96	70-130	22	25
Dibromochloromethane	8.5	U	8.5	ug/m3	80	96	65-127	18	25
1,2-Dibromoethane	7.7	U	7.7	ug/m3	72	89	65-126	22	25
Dibromomethane	7.1	U	7.1	ug/m3	72	84	70-130	15	25
1,2-Dichlorobenzene	6.0	U	6.0	ug/m3	71	89	62-132	23	25
1,3-Dichlorobenzene	6.0	U	6.0	ug/m3	73	88	63-125	19	25
1,4-Dichlorobenzene	6.0	U	6.0	ug/m3	72	86	63-127	18	25
Dichlorodifluoromethane	4.9	U	4.9	ug/m3	86	96	61-149	11	25
1,1-Dichloroethane	4.0	U	4.0	ug/m3	78	86	67-124	9	25
1,2-Dichloroethane	4.0	U	4.0	ug/m3	75	89	70-130	17	25
1,1-Dichloroethene	4.0	U	4.0	ug/m3	84	97	61-128	15	25
cis-1,2-Dichloroethene	4.0	U	4.0	ug/m3	80	89	65-121	11	25
trans-1,2-Dichloroethene	4.0	U	4.0	ug/m3	82	93	66-121	13	25
Dichlorofluoromethane	4.2	U	4.2	ug/m3	79	91	70-130	14	25
1,2-Dichloropropane	4.6	U	4.6	ug/m3	74	90	70-130	20	25
cis-1,3-Dichloropropene	4.5	U	4.5	ug/m3	68	84	64-136	21	25
trans-1,3-Dichloropropene	4.5	U	4.5	ug/m3	69	88	61-126	24	25
Ethylbenzene	4.3	U	4.3	ug/m3	78	94	70-130	18	25
4-Ethyltoluene	4.9	U	4.9	ug/m3	80	97	59-126	19	25
Freon 113	15	U	15.	ug/m3	79	90	63-114	14	25
Freon 114	7.0	U	7.0	ug/m3	72	84	63-123	16	25
Heptane	4.1	U	4.1	ug/m3	81	97	56-123	18	25
Hexachloroethane	19	U	19.	ug/m3	71	85	70-130	17	25
Hexane	3.5	U	3.5	ug/m3	82	93	63-117	12	25

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: CenterPoint Properties
Reported: 11/06/2015 07:13

Group Number: 1600626

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
2-Hexanone	8.2 U	8.2	ug/m3	80	101	47-150	23	25
Isooctane	4.7 U	4.7	ug/m3	83	96	70-130	15	25
Methyl t-Butyl Ether	3.6 U	3.6	ug/m3	76	90	52-129	17	25
4-Methyl-2-pentanone	8.2 U	8.2	ug/m3	82	98	53-140	18	25
Methylene Chloride	3.5 U	3.5	ug/m3	75	85	70-130	12	25
Octane	4.7 U	4.7	ug/m3	86	103	70-130	19	25
Pentane	3.0 U	3.0	ug/m3	85	98	70-130	14	25
Styrene	4.3 U	4.3	ug/m3	75	93	64-130	21	25
1,1,1,2-Tetrachloroethane	6.9 U	6.9	ug/m3	74	90	70-130	19	25
1,1,2,2-Tetrachloroethane	6.9 U	6.9	ug/m3	73	90	58-133	21	25
Tetrachloroethene	6.8 U	6.8	ug/m3	68*	82	70-130	19	25
Toluene	3.8 U	3.8	ug/m3	77	95	70-130	21	25
1,1,1-Trichloroethane	5.5 U	5.5	ug/m3	82	88	70-130	7	25
1,1,2-Trichloroethane	5.5 U	5.5	ug/m3	75	93	59-131	21	25
Trichloroethene	5.4 U	5.4	ug/m3	76	88	70-130	15	25
Trichlorofluoromethane	5.6 U	5.6	ug/m3	87	97	70-130	11	25
1,2,3-Trichloropropane	6.0 U	6.0	ug/m3	74	90	70-130	19	25
1,2,4-Trimethylbenzene	4.9 U	4.9	ug/m3	78	94	60-128	18	25
1,3,5-Trimethylbenzene	4.9 U	4.9	ug/m3	77	95	61-132	21	25
Vinyl Chloride	2.6 U	2.6	ug/m3	82	100	70-130	20	25
m/p-Xylene	4.3 U	4.3	ug/m3	75	93	70-130	21	25
o-Xylene	4.3 U	4.3	ug/m3	75	92	70-130	21	25

Batch number: C1528830AC

Sample number(s): 8087712-8087714

Acetone	4.8 U	4.8	ug/m3	70	81	61-134	15	25
Benzene	3.2 U	3.2	ug/m3	74	89	70-130	18	25
Bromobenzene	6.4 U	6.4	ug/m3	73	88	70-130	20	25
Bromodichloromethane	6.7 U	6.7	ug/m3	78	91	62-129	16	25
Bromoform	10 U	10	ug/m3	75	91	64-141	20	25
Bromomethane	3.9 U	3.9	ug/m3	82	98	70-130	17	25
1,3-Butadiene	4.4 U	4.4	ug/m3	84	98	57-138	16	25
2-Butanone	5.9 U	5.9	ug/m3	78	92	60-135	16	25
Carbon Disulfide	3.1 U	3.1	ug/m3	78	89	55-121	13	25
Carbon Tetrachloride	6.3 U	6.3	ug/m3	88	93	70-130	5	25
Chlorobenzene	4.6 U	4.6	ug/m3	74	93	70-130	23	25
Chlorodifluoromethane	3.5 U	3.5	ug/m3	80	91	70-130	13	25
Chloroethane	2.6 U	2.6	ug/m3	80	96	63-119	18	25
Chloroform	4.9 U	4.9	ug/m3	78	86	70-130	10	25
Chloromethane	2.1 U	2.1	ug/m3	89	108	54-118	19	25
3-Chloropropene	3.1 U	3.1	ug/m3	75	84	70-130	11	25
Cumene	4.9 U	4.9	ug/m3	77	96	70-130	22	25
Dibromochloromethane	8.5 U	8.5	ug/m3	80	96	65-127	18	25
1,2-Dibromoethane	7.7 U	7.7	ug/m3	72	89	65-126	22	25
Dibromomethane	7.1 U	7.1	ug/m3	72	84	70-130	15	25
1,2-Dichlorobenzene	6.0 U	6.0	ug/m3	71	89	62-132	23	25
1,3-Dichlorobenzene	6.0 U	6.0	ug/m3	73	88	63-125	19	25
1,4-Dichlorobenzene	6.0 U	6.0	ug/m3	72	86	63-127	18	25
Dichlorodifluoromethane	4.9 U	4.9	ug/m3	86	96	61-149	11	25
1,1-Dichloroethane	4.0 U	4.0	ug/m3	78	86	67-124	9	25
1,2-Dichloroethane	4.0 U	4.0	ug/m3	75	89	70-130	17	25
1,1-Dichloroethene	4.0 U	4.0	ug/m3	84	97	61-128	15	25
cis-1,2-Dichloroethene	4.0 U	4.0	ug/m3	80	89	65-121	11	25
trans-1,2-Dichloroethene	4.0 U	4.0	ug/m3	82	93	66-121	13	25

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: CenterPoint Properties
Reported: 11/06/2015 07:13

Group Number: 1600626

<u>Analysis Name</u>	<u>Blank</u>		<u>Blank</u>	<u>Report</u>	<u>LCS</u>	<u>LCSD</u>	<u>LCS/LCSD</u>	<u>RPD</u>	
	<u>Result</u>		<u>LOQ</u>	<u>Units</u>	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>Max</u>
Dichlorofluoromethane	4.2	U	4.2	ug/m3	79	91	70-130	14	25
1,2-Dichloropropane	4.6	U	4.6	ug/m3	74	90	70-130	20	25
cis-1,3-Dichloropropene	4.5	U	4.5	ug/m3	68	84	64-136	21	25
trans-1,3-Dichloropropene	4.5	U	4.5	ug/m3	69	88	61-126	24	25
Ethylbenzene	4.3	U	4.3	ug/m3	78	94	70-130	18	25
4-Ethyltoluene	4.9	U	4.9	ug/m3	80	97	59-126	19	25
Freon 113	15	U	15.	ug/m3	79	90	63-114	14	25
Freon 114	7.0	U	7.0	ug/m3	72	84	63-123	16	25
Heptane	4.1	U	4.1	ug/m3	81	97	56-123	18	25
Hexachloroethane	19	U	19.	ug/m3	71	85	70-130	17	25
Hexane	3.5	U	3.5	ug/m3	82	93	63-117	12	25
2-Hexanone	8.2	U	8.2	ug/m3	80	101	47-150	23	25
Isooctane	4.7	U	4.7	ug/m3	83	96	70-130	15	25
Methyl t-Butyl Ether	3.6	U	3.6	ug/m3	76	90	52-129	17	25
4-Methyl-2-pentanone	8.2	U	8.2	ug/m3	82	98	53-140	18	25
Methylene Chloride	3.5	U	3.5	ug/m3	75	85	70-130	12	25
Octane	4.7	U	4.7	ug/m3	86	103	70-130	19	25
Pentane	3.0	U	3.0	ug/m3	85	98	70-130	14	25
Styrene	4.3	U	4.3	ug/m3	75	93	64-130	21	25
1,1,1,2-Tetrachloroethane	6.9	U	6.9	ug/m3	74	90	70-130	19	25
1,1,2,2-Tetrachloroethane	6.9	U	6.9	ug/m3	73	90	58-133	21	25
Tetrachloroethene	6.8	U	6.8	ug/m3	68*	82	70-130	19	25
Toluene	3.8	U	3.8	ug/m3	77	95	70-130	21	25
1,1,1-Trichloroethane	5.5	U	5.5	ug/m3	82	88	70-130	7	25
1,1,2-Trichloroethane	5.5	U	5.5	ug/m3	75	93	59-131	21	25
Trichloroethene	5.4	U	5.4	ug/m3	76	88	70-130	15	25
Trichlorofluoromethane	5.6	U	5.6	ug/m3	87	97	70-130	11	25
1,2,3-Trichloropropane	6.0	U	6.0	ug/m3	74	90	70-130	19	25
1,2,4-Trimethylbenzene	4.9	U	4.9	ug/m3	78	94	60-128	18	25
1,3,5-Trimethylbenzene	4.9	U	4.9	ug/m3	77	95	61-132	21	25
Vinyl Chloride	2.6	U	2.6	ug/m3	82	100	70-130	20	25
m/p-Xylene	4.3	U	4.3	ug/m3	75	93	70-130	21	25
o-Xylene	4.3	U	4.3	ug/m3	75	92	70-130	21	25

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Summa Canister Field Test Data/Chain of Custody



Lancaster Laboratories
Environmental

For Eurofins Lancaster Laboratories Environmental use only
 Acct. # 20613 Group # 1600676 Sample # 8087710-16 Bottle Order (SCR) # _____
 Instructions on reverse side correspond with circled numbers.

1 Client Information					3 Turnaround Time Requested (TAT) (circle one)					6 Analyses Requested				
Client <u>CenterPoint Properties</u>					<input checked="" type="radio"/> Standard Rush (specify) _____ 4 Data Package Required? 5 EDD Required? <input checked="" type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Yes <input type="radio"/> No					EPA TO - 15 <input type="checkbox"/> EPA 18 <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> EPA 25 (select range below) Helium as tracer <input type="checkbox"/> O2/CO2 Library Search				
Project Name/# <u>Bannister Federal Center SSPA 1428</u>														
Project Manager <u>Harvey Cohen</u>														
Sampler <u>Onnita Swastian</u>														
Name of state where samples were collected														
Temperature (F)														
Pressure ("Hg)														
Start Stop Start Stop														
Ambient														
Maximum														
Minimum														
2														
Sample Identification	Start Date/Time (24-hour clock)	Stop Date/Time (24-hour clock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Flow Reg. ID	Can ID	Can Size (L)	Controller Flowrate (mL/min)				
<u>SVMP-08</u>	<u>10/9 10:44</u>	<u>10/9 10:50</u>	<u>28.0</u>	<u>2.0</u>	<u>-</u>	<u>-</u>	<u>344041</u>	<u>1019</u>	<u>1</u>	<u>167</u>	<input checked="" type="checkbox"/>			
<u>SVMP-07</u>	<u>10/9 14:13</u>	<u>10/9 14:23</u>	<u>28.5</u>	<u>2.0</u>	<u>-</u>	<u>-</u>	<u>336825</u>	<u>1011</u>	<u>1</u>	<u>169</u>	<input checked="" type="checkbox"/>			
<u>SVMP-04R</u>	<u>10/10 9:41</u>	<u>10/10 9:47</u>	<u>29.0</u>	<u>2.5</u>	<u>-</u>	<u>-</u>	<u>204636</u>	<u>1058</u>	<u>1</u>	<u>165</u>	<input checked="" type="checkbox"/>			
<u>SVMP-04R Dup</u>	<u>10/10 9:41</u>	<u>10/10 9:47</u>	<u>29.0</u>	<u>2.0</u>	<u>-</u>	<u>-</u>	<u>415304</u>	<u>1167</u>	<u>1</u>	<u>167</u>	<input checked="" type="checkbox"/>			
<u>SVMP-02R</u>	<u>10/10 12:32</u>	<u>10/10 12:37</u>	<u>28.0</u>	<u>2.0</u>	<u>-</u>	<u>-</u>	<u>236757</u>	<u>985</u>	<u>1</u>	<u>166</u>	<input checked="" type="checkbox"/>			
<u>DISCARD SAMPLE</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>			<u>339187</u>	<u>955</u>	<u>1</u>	<u>165</u>				
7 Instructions/QC Requirements & Comments								EPA 25 (check one) <input type="checkbox"/> C1 - C4 <input type="checkbox"/> C2 - C10 <input type="checkbox"/> C1 - C10 <input type="checkbox"/> C4 - C10 (GRO) <input type="checkbox"/> C2 - C4						
Canisters Shipped by: <u>W. Swastian</u>	Date/Time: <u>14:59</u>	9-10-15	Canisters Received by: <u>James Swastian</u>	Date/Time: <u>9/15 12:00</u>	Relinquished by: <u>James Swastian</u>	Date/Time: <u>10/13 15:00</u>	Received by: <u>804713288055</u>	Date/Time: <u>10/13 15:00</u>	8					
Relinquished by:	Date/Time:	Received by:	Date/Time:	Relinquished by:	Date/Time:	Received by:	Date/Time:							
Relinquished by:	Date/Time:	Received by:	Date/Time:	Relinquished by:	Date/Time:	Received by: <u>W. Swastian</u>	Date/Time: <u>10/15/1920</u>							

Summa Canister Field Test Data/Chain of Custody



Lancaster Laboratories Environmental

For Eurofins Lancaster Laboratories Environmental use only
 Acct. # 20613 Group # 1600626 Sample # 8087710-16 Bottle Order (SCR) # _____
 Instructions on reverse side correspond with circled numbers.

1 Client Information					3 Turnaround Time Requested (TAT) (circle one)					6 Analyses Requested								
Client <u>CenterPoint Properties</u> Account # _____					<input checked="" type="radio"/> Standard Rush (specify) _____					EPA TO - 15 EPA 18 <input type="checkbox"/> MTBE EPA 25 (select range below) Helium as tracer O2/CO2 Library Search								
Project Name/# <u>Bannister Federal Center SSPA.1428</u>					4 Data Package Required? 5 EDD Required?													
Project Manager <u>Harvey Cohen</u> P.O. # _____					<input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No													
Sampler <u>Derrick Swashian</u> Quote # _____					Temperature (F) Pressure ("Hg)													
Name of state where samples were collected					Start		Stop		Start							Stop		
					Ambient													
					Maximum													
Minimum																		

Sample Identification	Start Date/Time (24-hour clock)	Stop Date/Time (24-hour clock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Flow Reg. ID	Can ID	Can Size (L)	Controller Flowrate (mL/min)	EPA TO - 15	EPA 18	EPA 25 (select range below)	Helium as tracer	O2/CO2	Library Search
<u>SVMP-OIR</u>	<u>10/10 11:31</u>	<u>10/10 11:35</u>	<u>27.5</u>	<u>2</u>	<u>-</u>	<u>-</u>	<u>21753</u>	<u>1014</u>	<u>1</u>	<u>167</u>	<input checked="" type="checkbox"/>					

7 Instructions/QC Requirements & Comments	EPA 25 (check one) <input type="checkbox"/> C1 - C4 <input type="checkbox"/> C2 - C10 <input type="checkbox"/> C1 - C10 <input type="checkbox"/> C4 - C10 (GRO) <input type="checkbox"/> C2 - C4
--	--

Canisters Shipped by: <u>Wendy Huts</u>	Date/Time: <u>9-15-15</u>	Canisters Received by: <u>Dharmes Swashian</u>	Date/Time:	Relinquished by: <u>Dharmes Swashian</u>	Date/Time: <u>10/13 10:00</u>	Received by: <u>804 713 288066</u>	Date/Time: <u>10/13 15:00</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Relinquished by:	Date/Time:	Received by: <u>WHS</u>	Date/Time: <u>10-14-15/19:20</u>

Summa Canister Field Test Data/Chain of Custody



Lancaster Laboratories Environmental

Acct. # 20613 Group # 1600626 Sample # 8087710-16 Bottle Order (SCR) # _____
 For Eurofins Lancaster Laboratories Environmental use only
 Instructions on reverse side correspond with circled numbers.

1 Client Information					3 Turnaround Time Requested (TAT) (circle one)					6 Analyses Requested				
Client: <u>Center Point Properties</u> Account # _____					<input checked="" type="radio"/> Standard Rush (specify) _____ 4 Data Package Required? 5 EDD Required? <input checked="" type="radio"/> Yes No <input checked="" type="radio"/> Yes No					EPA TO - 15 <input type="checkbox"/> EPA 18 <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE EPA 25 (select range below) Helium as tracer O2/CO2 Library Search				
Project Name/#: <u>Bannister Federal Center SSPA 1428</u>														
Project Manager: <u>Harvey Cohen</u> P.O. # _____					Temperature (F) Pressure ("Hg) Start Stop Start Stop									
Sampler: <u>Onnita Sivaslian</u> Quote # _____					Ambient									
Name of state where samples were collected					Maximum									
					Minimum									
2 Sample Identification	Start Date/Time (24-hour clock)	Stop Date/Time (24-hour clock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Flow Reg. ID	Can ID	Can Size (L)	Controller Flowrate (mL/min)				
<u>SVMP-09</u>	<u>10/12 10:11</u>	<u>10/12 11:15</u>	<u>29.0</u>	<u>2.0</u>	<u>-</u>	<u>-</u>	<u>336746</u>	<u>988</u>	<u>1</u>	<u>167</u>				
<u>Sample DISCARD</u>	<u>-</u>	<u>-</u>					<u>153110</u>	<u>992</u>	<u>1</u>	<u>167</u>				
7 Instructions/QC Requirements & Comments							EPA 25 (check one) <input type="checkbox"/> C1 - C4 <input type="checkbox"/> C2 - C10 <input type="checkbox"/> C1 - C10 <input type="checkbox"/> C4 - C10 (GRO) <input type="checkbox"/> C2 - C4							
Canisters Shipped by: <u>W. A. S. [Signature]</u> <u>13:05</u>	Date/Time: <u>10/13 14:57</u>	Canisters Received by: <u>Thomas Swader</u>	Date/Time: _____	Relinquished by: <u>Thomas Swader</u>	Date/Time: <u>10/13 08:00</u>	Received by: <u>804713214318</u>	Date/Time: <u>10/13 18:00</u>	8						
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____	Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____							
Relinquished by: _____	Date/Time: _____	Received by: _____	Date/Time: _____	Relinquished by: _____	Date/Time: _____	Received by: <u>[Signature]</u>	Date/Time: <u>10/14/15 9:20</u>							

Client: Center Point

Delivery and Receipt Information

Delivery Method:	<u>Fed Ex</u>	Arrival Timestamp:	<u>10/14/2015 9:20</u>
Number of Packages:	<u>3</u>	Number of Projects:	<u>1</u>

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	N/A	VOA Vial Headspace ≥ 6mm:	N/A
Paperwork Enclosed:	Yes	Total Trip Blank Qty:	0
Samples Intact:	Yes	Air Quality Samples Present:	Yes
Missing Samples:	No	Air Quality Flow Controllers Present:	Yes
Extra Samples:	No	Flow Controller Quantity:	6
Discrepancy in Container Qty on COC:	No	Air Quality Returns:	Yes
		Summa Canisters:	955,992

Unpacked by Timothy Cubberley (6520) at 10:42 on 10/14/2015

General Comments: Recieved 3 bags of summa parts.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than		
>	greater than		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

Laboratory Data Qualifiers:

- B - Analyte detected in the blank
- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)
- P - Concentration difference between the primary and confirmation column $>40\%$. The lower result is reported.
- U - Analyte was not detected at the value indicated
- V - Concentration difference between the primary and confirmation column $>100\%$. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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TARGET ANALYTES -
 AIR RESULT

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
<i>EPA TO-15</i>			<i>ug/m3</i>		<i>ppb(v)</i>			
Acetone (2-propanone)	67-64-1	58.08	7.4		3.1			
Benzene	71-43-2	78.11	3.2	U	1.0			
Bromobenzene	108-86-1	157.0	6.4	U	1.0			
Bromodichloromethane	75-27-4	163.8	6.7	U	1.0			
Bromoform	75-25-2	252.8	10	U	1.0			
Bromomethane (Methyl bromide)	74-83-9	94.94	3.9	U	1.0			
1,3-Butadiene	106-99-0	54.09	4.4	U	2.0			
2-Butanone (Methyl ethyl ketone)	78-93-3	72.11	1.5	J	0.51			
Carbon disulfide	75-15-0	76.14	3.1	U	1.0			
Carbon tetrachloride	56-23-5	153.8	6.3	U	1.0			
Chlorobenzene	108-90-7	112.6	4.6	U	1.0			
Chlorodifluoromethane	75-45-6	86.47	1.9		0.55			
Chloroethane	75-00-3	64.52	2.6	U	1.0			
Chloroform	67-66-3	119.4	2.5	J	0.51			
Chloromethane (Methyl chloride)	74-87-3	50.49	2.1	U	1.0			
3-Chloropropene (allyl chloride)	107-05-1	76.53	3.1	U	1.0			
Cumene	98-82-8	120.2	4.9	U	1.0			
Dibromochloromethane	124-48-1	208.3	8.5	U	1.0			
1,2-Dibromoethane	106-93-4	187.9	7.7	U	1.0			
Dibromomethane	74-95-3	173.8	7.1	U	1.0			
1,2-Dichlorobenzene	95-50-1	147.0	6.0	U	1.0			
1,3-Dichlorobenzene	541-73-1	147.0	6.0	U	1.0			
1,4-Dichlorobenzene	106-46-7	147.0	6.0	U	1.0			
Dichlorodifluoromethane	75-71-8	120.9	1.5	J	0.29			
1,1-Dichloroethane	75-34-3	98.96	4.0	U	1.0			
1,2-Dichloroethane	107-06-2	98.96	4.0	U	1.0			
1,1-Dichloroethene	75-35-4	96.94	4.0	U	1.0			
1,2-Dichloroethene (cis)	156-59-2	96.94	4.0	U	1.0			
1,2-Dichloroethene (trans)	156-60-5	96.94	4.0	U	1.0			
Dichlorofluoromethane	75-43-4	102.9	4.2	U	1.0			
1,2-Dichloropropane	78-87-5	113.0	5.0		1.1			
cis-1,3-Dichloropropene	10061-01-5	111.0	4.5	U	1.0			
trans-1,3-Dichloropropene	10061-02-6	111.0	4.5	U	1.0			
Ethylbenzene	100-41-4	106.2	1.6	J	0.37			
4-Ethyltoluene (p-Ethyltoluene)	622-96-8	120.2	4.9	U	1.0			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon TF)	76-13-1	187.4	15	U	2.0			
1,2-Dichlorotetrafluoroethane (Freon 114)	76-14-2	170.9	7.0	U	1.0			
n-Heptane	142-82-5	100.2	4.1	U	1.0			
Hexachloroethane	67-72-1	236.7	9.7	U	1.0			
n-Hexane	110-54-3	86.17	3.5	U	1.0			
2-Hexanone	591-78-6	100.2	8.2	U	2.0			
2,2,4-Trimethylpentane	540-84-1	114.2	4.7	U	1.0			
MTBE (Methyl tert-butyl ether)	1634-04-4	88.15	3.6	U	1.0			
4-Methyl-2-pentanone (MIBK)	108-10-1	100.2	8.2	U	2.0			
Methylene chloride	75-09-2	84.94	3.5	U	1.0			
Octane	111-65-9	114.2	4.7	U	1.0			
Pentane	109-66-0	72.15	3.0	U	1.0			
Styrene	100-42-5	104.1	4.3	U	1.0			
1,1,1,2-Tetrachloroethane	630-20-6	167.8	6.9	U	1.0			
1,1,2,2-Tetrachloroethane	79-34-5	167.9	6.9	U	1.0			
Tetrachloroethene (PCE)	127-18-4	165.8	3.6		0.54			
Toluene	108-88-3	92.14	1.1	J	0.29			
1,1,1-Trichloroethane	71-55-6	133.4	5.5	U	1.0			
1,1,2-Trichloroethane	79-00-5	133.4	5.5	U	1.0			
Trichloroethene (TCE)	79-01-6	131.4	35		6.5			
Trichlorofluoromethane (Freon 11)	75-69-4	137.4	5.6	U	1.0			
1,2,3-Trichloropropane	96-18-4	147.4	6.0	U	1.0			
1,2,4-Trimethylbenzene	95-63-6	120.2	4.9	U	1.0			
1,3,5-Trimethylbenzene	108-67-8	120.2	4.9	U	1.0			
Vinyl chloride	75-01-4	62.50	2.6	U	1.0			
Xylenes (m&p)	179601-23-1	106.2	15		3.3			

Project Name: SSP-1428
 Field ID Number: SVMP-08
 Laboratory ID Number: 8087710
 SDG Number: SSX23

Sampling Date: 10/09/2015
 Analysis Date: 10/17/2015

TARGET ANALYTES -
 AIR RESULT

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
EPA TO-15			ug/m3		ppb(v)			
Xylenes (o)	95-47-6	106.2	3.7	J	0.86			

Volatile Tentatively Identified Compounds	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
EPA TO-15			ug/m3		ppb(v)			
Unknown				1 J		2.22		
Cyclotetrasiloxane, octamethyl	556-67-2			1 J		19.82		
Total Tics	TOTVOATIC			3 J				

TARGET ANALYTES -
 AIR RESULT

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
EPA TO-15								
			ug/m3		ppb(v)			
Acetone (2-propanone)	67-64-1	58.08		25	10			
Benzene	71-43-2	78.11		1.5	J	0.46		
Bromobenzene	108-86-1	157.0		6.4	U	1.0		
Bromodichloromethane	75-27-4	163.8		6.7	U	1.0		
Bromoform	75-25-2	252.8		10	U	1.0		
Bromomethane (Methyl bromide)	74-83-9	94.94		3.9	U	1.0		
1,3-Butadiene	106-99-0	54.09		4.4	U	2.0		
2-Butanone (Methyl ethyl ketone)	78-93-3	72.11		8.6		2.9		
Carbon disulfide	75-15-0	76.14		1.6	J	0.53		
Carbon tetrachloride	56-23-5	153.8		6.3	U	1.0		
Chlorobenzene	108-90-7	112.6		4.6	U	1.0		
Chlorodifluoromethane	75-45-6	86.47		3.5	U	1.0		
Chloroethane	75-00-3	64.52		2.6	U	1.0		
Chloroform	67-66-3	119.4		4.9	U	1.0		
Chloromethane (Methyl chloride)	74-87-3	50.49		2.1	U	1.0		
3-Chloropropene (allyl chloride)	107-05-1	76.53		3.1	U	1.0		
Cumene	98-82-8	120.2		4.9	U	1.0		
Dibromochloromethane	124-48-1	208.3		8.5	U	1.0		
1,2-Dibromoethane	106-93-4	187.9		7.7	U	1.0		
Dibromomethane	74-95-3	173.8		7.1	U	1.0		
1,2-Dichlorobenzene	95-50-1	147.0		6.0	U	1.0		
1,3-Dichlorobenzene	541-73-1	147.0		6.0	U	1.0		
1,4-Dichlorobenzene	106-46-7	147.0		6.0	U	1.0		
Dichlorodifluoromethane	75-71-8	120.9		4.9	U	1.0		
1,1-Dichloroethane	75-34-3	98.96		4.0	U	1.0		
1,2-Dichloroethane	107-06-2	98.96		4.0	U	1.0		
1,1-Dichloroethene	75-35-4	96.94		4.0	U	1.0		
1,2-Dichloroethene (cis)	156-59-2	96.94		22		5.6		
1,2-Dichloroethene (trans)	156-60-5	96.94		4.0	U	1.0		
Dichlorofluoromethane	75-43-4	102.9		4.2	U	1.0		
1,2-Dichloropropane	78-87-5	113.0		4.6	U	1.0		
cis-1,3-Dichloropropene	10061-01-5	111.0		4.5	U	1.0		
trans-1,3-Dichloropropene	10061-02-6	111.0		4.5	U	1.0		
Ethylbenzene	100-41-4	106.2		4.3	U	1.0		
4-Ethyltoluene (p-Ethyltoluene)	622-96-8	120.2		4.9	U	1.0		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon TF)	76-13-1	187.4		15	U	2.0		
1,2-Dichlorotetrafluoroethane (Freon 114)	76-14-2	170.9		7.0	U	1.0		
n-Heptane	142-82-5	100.2		1.6	J	0.39		
Hexachloroethane	67-72-1	236.7		9.7	U	1.0		
n-Hexane	110-54-3	86.17		2.7	J	0.78		
2-Hexanone	591-78-6	100.2		8.2	U	2.0		
2,2,4-Trimethylpentane	540-84-1	114.2		4.7	U	1.0		
MTBE (Methyl tert-butyl ether)	1634-04-4	88.15		3.6	U	1.0		
4-Methyl-2-pentanone (MIBK)	108-10-1	100.2		8.2	U	2.0		
Methylene chloride	75-09-2	84.94		3.5	U	1.0		
Octane	111-65-9	114.2		4.7	U	1.0		
Pentane	109-66-0	72.15		21		7.1		
Styrene	100-42-5	104.1		4.3	U	1.0		
1,1,1,2-Tetrachloroethane	630-20-6	167.8		6.9	U	1.0		
1,1,2,2-Tetrachloroethane	79-34-5	167.9		6.9	U	1.0		
Tetrachloroethene (PCE)	127-18-4	165.8		3.7	J	0.53		
Toluene	108-88-3	92.14		0.90	J	0.24		
1,1,1-Trichloroethane	71-55-6	133.4		5.5	U	1.0		
1,1,2-Trichloroethane	79-00-5	133.4		5.5	U	1.0		
Trichloroethene (TCE)	79-01-6	131.4		5.0	J	0.93		
Trichlorofluoromethane (Freon 11)	75-69-4	137.4		5.6	U	1.0		
1,2,3-Trichloropropane	96-18-4	147.4		6.0	U	1.0		
1,2,4-Trimethylbenzene	95-63-6	120.2		4.9	U	1.0		
1,3,5-Trimethylbenzene	108-67-8	120.2		4.9	U	1.0		
Vinyl chloride	75-01-4	62.50		2.6	U	1.0		
Xylenes (m&p)	179601-23-1	106.2		1.0	J	0.23		

Project Name: SSP-1428
 Field ID Number: SVMP-07
 Laboratory ID Number: 8087711
 SDG Number: SSX23

Sampling Date: 10/09/2015
 Analysis Date: 10/17/2015

TARGET ANALYTES -
 AIR RESULT

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
<i>EPA TO-15</i>			<i>ug/m3</i>		<i>ppb(v)</i>			
Xylenes (o)	95-47-6	106.2	4.3	U	1.0			

Volatile Tentatively Identified Compounds	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
<i>EPA TO-15</i>			<i>ug/m3</i>		<i>ppb(v)</i>			
Unknown			150	J		1.78		
Unknown			5	J		1.84		
Unknown			35	J		1.91		
Unknown			14	J		1.95		
Isobutane	75-28-5		19	J		2.03		
Isobutane	75-28-5		13	J		2.08		
Unknown			4	J		2.13		
Unknown			10	J		2.20		
Unknown			14	J		2.25		
Unknown			10	J		2.38		
Butane, 2-methyl-	78-78-4		12	J		2.84		
Cyclotrisiloxane, hexamethyl-	541-05-9		3	J		13.70		
Total Tics	TOTVOATIC		290	J				

TARGET ANALYTES -
 AIR RESULT

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
<i>EPA TO-15</i>			<i>ug/m3</i>		<i>ppb(v)</i>			
Acetone (2-propanone)	67-64-1	58.08	38	J	16			
Benzene	71-43-2	78.11	32	U	10			
Bromobenzene	108-86-1	157.0	64	U	10			
Bromodichloromethane	75-27-4	163.8	67	U	10			
Bromoform	75-25-2	252.8	100	U	10			
Bromomethane (Methyl bromide)	74-83-9	94.94	39	U	10			
1,3-Butadiene	106-99-0	54.09	44	U	20			
2-Butanone (Methyl ethyl ketone)	78-93-3	72.11	59	U	20			
Carbon disulfide	75-15-0	76.14	31	U	10			
Carbon tetrachloride	56-23-5	153.8	63	U	10			
Chlorobenzene	108-90-7	112.6	46	U	10			
Chlorodifluoromethane	75-45-6	86.47	35	U	10			
Chloroethane	75-00-3	64.52	26	U	10			
Chloroform	67-66-3	119.4	49	U	10			
Chloromethane (Methyl chloride)	74-87-3	50.49	21	U	10			
3-Chloropropene (allyl chloride)	107-05-1	76.53	31	U	10			
Cumene	98-82-8	120.2	49	U	10			
Dibromochloromethane	124-48-1	208.3	85	U	10			
1,2-Dibromoethane	106-93-4	187.9	77	U	10			
Dibromomethane	74-95-3	173.8	71	U	10			
1,2-Dichlorobenzene	95-50-1	147.0	60	U	10			
1,3-Dichlorobenzene	541-73-1	147.0	60	U	10			
1,4-Dichlorobenzene	106-46-7	147.0	60	U	10			
Dichlorodifluoromethane	75-71-8	120.9	49	U	10			
1,1-Dichloroethane	75-34-3	98.96	40	U	10			
1,2-Dichloroethane	107-06-2	98.96	40	U	10			
1,1-Dichloroethene	75-35-4	96.94	40	U	10			
1,2-Dichloroethene (cis)	156-59-2	96.94	40	U	10			
1,2-Dichloroethene (trans)	156-60-5	96.94	40	U	10			
Dichlorofluoromethane	75-43-4	102.9	42	U	10			
1,2-Dichloropropane	78-87-5	113.0	46	U	10			
cis-1,3-Dichloropropene	10061-01-5	111.0	45	U	10			
trans-1,3-Dichloropropene	10061-02-6	111.0	45	U	10			
Ethylbenzene	100-41-4	106.2	67	J	15			
4-Ethyltoluene (p-Ethyltoluene)	622-96-8	120.2	49	U	10			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon TF)	76-13-1	187.4	150	U	20			
1,2-Dichlorotetrafluoroethane (Freon 114)	76-14-2	170.9	70	U	10			
n-Heptane	142-82-5	100.2	41	U	10			
Hexachloroethane	67-72-1	236.7	97	U	10			
n-Hexane	110-54-3	86.17	35	U	10			
2-Hexanone	591-78-6	100.2	82	U	20			
2,2,4-Trimethylpentane	540-84-1	114.2	47	U	10			
MTBE (Methyl tert-butyl ether)	1634-04-4	88.15	36	U	10			
4-Methyl-2-pentanone (MIBK)	108-10-1	100.2	82	U	20			
Methylene chloride	75-09-2	84.94	35	U	10			
Octane	111-65-9	114.2	47	U	10			
Pentane	109-66-0	72.15	30	U	10			
Styrene	100-42-5	104.1	43	U	10			
1,1,1,2-Tetrachloroethane	630-20-6	167.8	69	U	10			
1,1,2,2-Tetrachloroethane	79-34-5	167.9	69	U	10			
Tetrachloroethene (PCE)	127-18-4	165.8	130	J	20			
Toluene	108-88-3	92.14	31	J	8.3			
1,1,1-Trichloroethane	71-55-6	133.4	14	J	2.6			
1,1,2-Trichloroethane	79-00-5	133.4	55	U	10			
Trichloroethene (TCE)	79-01-6	131.4	77	J	14			
Trichlorofluoromethane (Freon 11)	75-69-4	137.4	56	U	10			
1,2,3-Trichloropropane	96-18-4	147.4	60	U	10			
1,2,4-Trimethylbenzene	95-63-6	120.2	49	U	10			
1,3,5-Trimethylbenzene	108-67-8	120.2	49	U	10			
Vinyl chloride	75-01-4	62.50	26	U	10			
Xylenes (m&p)	179601-23-1	106.2	530	J	120			

Project Name: SSP-1428
 Field ID Number: SVMP-04R
 Laboratory ID Number: 8087712
 SDG Number: SSX23

Sampling Date: 10/10/2015
 Analysis Date: 10/19/2015

TARGET ANALYTES -
 AIR RESULT

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
EPA TO-15			ug/m3		ppb(v)			
Xylenes (o)	95-47-6	106.2	140		33			

Volatile Tentatively Identified Compounds	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
EPA TO-15			ug/m3		ppb(v)			
Butane	106-97-8		10	J		2.22		
Total Tics	TOTVOATIC		10	J				

TARGET ANALYTES -
 AIR RESULT

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
<i>EPA TO-15</i>			<i>ug/m3</i>		<i>ppb(v)</i>			
Acetone (2-propanone)	67-64-1	58.08	83		35			
Benzene	71-43-2	78.11	1.9	J	0.59			
Bromobenzene	108-86-1	157.0	6.4	U	1.0			
Bromodichloromethane	75-27-4	163.8	6.7	U	1.0			
Bromoform	75-25-2	252.8	10	U	1.0			
Bromomethane (Methyl bromide)	74-83-9	94.94	3.9	U	1.0			
1,3-Butadiene	106-99-0	54.09	4.4	U	2.0			
2-Butanone (Methyl ethyl ketone)	78-93-3	72.11	15		5.1			
Carbon disulfide	75-15-0	76.14	3.1	U	1.0			
Carbon tetrachloride	56-23-5	153.8	6.3	U	1.0			
Chlorobenzene	108-90-7	112.6	4.6	U	1.0			
Chlorodifluoromethane	75-45-6	86.47	3.4		0.97			
Chloroethane	75-00-3	64.52	2.6	U	1.0			
Chloroform	67-66-3	119.4	1.7	J	0.35			
Chloromethane (Methyl chloride)	74-87-3	50.49	2.1	U	1.0			
3-Chloropropene (allyl chloride)	107-05-1	76.53	3.1	U	1.0			
Cumene	98-82-8	120.2	5.6		1.1			
Dibromochloromethane	124-48-1	208.3	8.5	U	1.0			
1,2-Dibromoethane	106-93-4	187.9	7.7	U	1.0			
Dibromomethane	74-95-3	173.8	7.1	U	1.0			
1,2-Dichlorobenzene	95-50-1	147.0	6.0	U	1.0			
1,3-Dichlorobenzene	541-73-1	147.0	6.0	U	1.0			
1,4-Dichlorobenzene	106-46-7	147.0	6.0	U	1.0			
Dichlorodifluoromethane	75-71-8	120.9	2.8	J	0.56			
1,1-Dichloroethane	75-34-3	98.96	4.0	U	1.0			
1,2-Dichloroethane	107-06-2	98.96	4.0	U	1.0			
1,1-Dichloroethene	75-35-4	96.94	4.0	U	1.0			
1,2-Dichloroethene (cis)	156-59-2	96.94	4.0	U	1.0			
1,2-Dichloroethene (trans)	156-60-5	96.94	4.0	U	1.0			
Dichlorofluoromethane	75-43-4	102.9	4.2	U	1.0			
1,2-Dichloropropane	78-87-5	113.0	4.6	U	1.0			
cis-1,3-Dichloropropene	10061-01-5	111.0	4.5	U	1.0			
trans-1,3-Dichloropropene	10061-02-6	111.0	4.5	U	1.0			
Ethylbenzene	100-41-4	106.2	160		37			
4-Ethyltoluene (p-Ethyltoluene)	622-96-8	120.2	3.8	J	0.77			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon TF)	76-13-1	187.4	5.8	J	0.76			
1,2-Dichlorotetrafluoroethane (Freon 114)	76-14-2	170.9	7.0	U	1.0			
n-Heptane	142-82-5	100.2	2.6	J	0.63			
Hexachloroethane	67-72-1	236.7	9.7	U	1.0			
n-Hexane	110-54-3	86.17	3.5	U	1.0			
2-Hexanone	591-78-6	100.2	8.2	U	2.0			
2,2,4-Trimethylpentane	540-84-1	114.2	4.7	U	1.0			
MTBE (Methyl tert-butyl ether)	1634-04-4	88.15	3.6	U	1.0			
4-Methyl-2-pentanone (MIBK)	108-10-1	100.2	3.3	J	0.80			
Methylene chloride	75-09-2	84.94	3.5	U	1.0			
Octane	111-65-9	114.2	4.7	U	1.0			
Pentane	109-66-0	72.15	0.70	J	0.24			
Styrene	100-42-5	104.1	4.3	U	1.0			
1,1,1,2-Tetrachloroethane	630-20-6	167.8	6.9	U	1.0			
1,1,2,2-Tetrachloroethane	79-34-5	167.9	6.9	U	1.0			
Tetrachloroethene (PCE)	127-18-4	165.8	210		30			
Toluene	108-88-3	92.14	61		16			
1,1,1-Trichloroethane	71-55-6	133.4	19		3.6			
1,1,2-Trichloroethane	79-00-5	133.4	5.5	U	1.0			
Trichloroethene (TCE)	79-01-6	131.4	100		19			
Trichlorofluoromethane (Freon 11)	75-69-4	137.4	1.4	J	0.25			
1,2,3-Trichloropropane	96-18-4	147.4	6.0	U	1.0			
1,2,4-Trimethylbenzene	95-63-6	120.2	11		2.2			
1,3,5-Trimethylbenzene	108-67-8	120.2	4.8	J	0.97			
Vinyl chloride	75-01-4	62.50	2.6	U	1.0			
Xylenes (m&p)	179601-23-1	106.2	490		110			

Project Name: SSP-1428
 Field ID Number: SVMP-04R DUP
 Laboratory ID Number: 8087713
 SDG Number: SSX23

Sampling Date: 10/10/2015
 Analysis Date: 10/17/2015

TARGET ANALYTES -
 AIR RESULT

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
<i>EPA TO-15</i>			<i>ug/m3</i>		<i>ppb(v)</i>			
Xylenes (o)	95-47-6	106.2	140		32			

Volatile Tentatively Identified Compounds	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
<i>EPA TO-15</i>			<i>ug/m3</i>		<i>ppb(v)</i>			
Norflurane	811-97-2		5	J		1.82		
Butane	106-97-8		3	J		2.22		
Acetaldehyde	75-07-0		3	J		2.35		
Unknown Siloxane			13	J		13.70		
Unknown Siloxane			4	J		19.81		
Unknown Siloxane			2	J		28.94		
Total Tics	TOTVOATIC		29	J				

TARGET ANALYTES -
 AIR RESULT

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
<i>EPA TO-15</i>			<i>ug/m3</i>		<i>ppb(v)</i>			
Acetone (2-propanone)	67-64-1	58.08	40		17			
Benzene	71-43-2	78.11	3.2	U	1.0			
Bromobenzene	108-86-1	157.0	6.4	U	1.0			
Bromodichloromethane	75-27-4	163.8	6.7	U	1.0			
Bromoform	75-25-2	252.8	10	U	1.0			
Bromomethane (Methyl bromide)	74-83-9	94.94	3.9	U	1.0			
1,3-Butadiene	106-99-0	54.09	4.4	U	2.0			
2-Butanone (Methyl ethyl ketone)	78-93-3	72.11	6.1		2.1			
Carbon disulfide	75-15-0	76.14	3.1	U	1.0			
Carbon tetrachloride	56-23-5	153.8	6.3	U	1.0			
Chlorobenzene	108-90-7	112.6	4.6	U	1.0			
Chlorodifluoromethane	75-45-6	86.47	3.5	U	1.0			
Chloroethane	75-00-3	64.52	2.6	U	1.0			
Chloroform	67-66-3	119.4	4.9	U	1.0			
Chloromethane (Methyl chloride)	74-87-3	50.49	2.1	U	1.0			
3-Chloropropene (allyl chloride)	107-05-1	76.53	3.1	U	1.0			
Cumene	98-82-8	120.2	2.9	J	0.59			
Dibromochloromethane	124-48-1	208.3	8.5	U	1.0			
1,2-Dibromoethane	106-93-4	187.9	7.7	U	1.0			
Dibromomethane	74-95-3	173.8	7.1	U	1.0			
1,2-Dichlorobenzene	95-50-1	147.0	6.0	U	1.0			
1,3-Dichlorobenzene	541-73-1	147.0	6.0	U	1.0			
1,4-Dichlorobenzene	106-46-7	147.0	6.0	U	1.0			
Dichlorodifluoromethane	75-71-8	120.9	2.7	J	0.55			
1,1-Dichloroethane	75-34-3	98.96	4.0	U	1.0			
1,2-Dichloroethane	107-06-2	98.96	4.0	U	1.0			
1,1-Dichloroethene	75-35-4	96.94	4.0	U	1.0			
1,2-Dichloroethene (cis)	156-59-2	96.94	4.0	U	1.0			
1,2-Dichloroethene (trans)	156-60-5	96.94	4.0	U	1.0			
Dichlorofluoromethane	75-43-4	102.9	4.2	U	1.0			
1,2-Dichloropropane	78-87-5	113.0	4.6	U	1.0			
cis-1,3-Dichloropropene	10061-01-5	111.0	4.5	U	1.0			
trans-1,3-Dichloropropene	10061-02-6	111.0	4.5	U	1.0			
Ethylbenzene	100-41-4	106.2	220		50			
4-Ethyltoluene (p-Ethyltoluene)	622-96-8	120.2	1.4	J	0.27			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon TF)	76-13-1	187.4	35		4.5			
1,2-Dichlorotetrafluoroethane (Freon 114)	76-14-2	170.9	7.0	U	1.0			
n-Heptane	142-82-5	100.2	4.1	U	1.0			
Hexachloroethane	67-72-1	236.7	9.7	U	1.0			
n-Hexane	110-54-3	86.17	3.5	U	1.0			
2-Hexanone	591-78-6	100.2	8.2	U	2.0			
2,2,4-Trimethylpentane	540-84-1	114.2	4.7	U	1.0			
MTBE (Methyl tert-butyl ether)	1634-04-4	88.15	3.6	U	1.0			
4-Methyl-2-pentanone (MIBK)	108-10-1	100.2	8.2	U	2.0			
Methylene chloride	75-09-2	84.94	3.5	U	1.0			
Octane	111-65-9	114.2	4.7	U	1.0			
Pentane	109-66-0	72.15	3.0	U	1.0			
Styrene	100-42-5	104.1	4.3	U	1.0			
1,1,1,2-Tetrachloroethane	630-20-6	167.8	6.9	U	1.0			
1,1,2,2-Tetrachloroethane	79-34-5	167.9	6.9	U	1.0			
Tetrachloroethene (PCE)	127-18-4	165.8	55		8.1			
Toluene	108-88-3	92.14	9.2		2.4			
1,1,1-Trichloroethane	71-55-6	133.4	5.5	U	1.0			
1,1,2-Trichloroethane	79-00-5	133.4	5.5	U	1.0			
Trichloroethene (TCE)	79-01-6	131.4	48		8.9			
Trichlorofluoromethane (Freon 11)	75-69-4	137.4	1.7	J	0.30			
1,2,3-Trichloropropane	96-18-4	147.4	6.0	U	1.0			
1,2,4-Trimethylbenzene	95-63-6	120.2	1.0	J	0.21			
1,3,5-Trimethylbenzene	108-67-8	120.2	4.9	U	1.0			
Vinyl chloride	75-01-4	62.50	2.6	U	1.0			
Xylenes (m&p)	179601-23-1	106.2	200		47			

Project Name: SSP-1428
 Field ID Number: SVMP-02R
 Laboratory ID Number: 8087714
 SDG Number: SSX23

Sampling Date: 10/10/2015
 Analysis Date: 10/17/2015

TARGET ANALYTES -
 AIR RESULT

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
EPA TO-15			ug/m3		ppb(v)			
Xylenes (o)	95-47-6	106.2	230		52			

Volatile Tentatively Identified Compounds	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
EPA TO-15			ug/m3		ppb(v)			
Norflurane	811-97-2			4 J		1.82		
Ethane, 1,1-difluoro-	75-37-6			2 J		1.87		
Butane	106-97-8			3 J		2.22		
Acetaldehyde	75-07-0			3 J		2.35		
Naphthalene	91-20-3			1 J		26.30		
Total Tics	TOTVOATIC			12 J				

TARGET ANALYTES -
 AIR RESULT

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
EPA TO-15								
			ug/m3		ppb(v)			
Acetone (2-propanone)	67-64-1	58.08	81		34			
Benzene	71-43-2	78.11	1.2	J	0.37			
Bromobenzene	108-86-1	157.0	6.4	U	1.0			
Bromodichloromethane	75-27-4	163.8	6.7	U	1.0			
Bromoform	75-25-2	252.8	10	U	1.0			
Bromomethane (Methyl bromide)	74-83-9	94.94	3.9	U	1.0			
1,3-Butadiene	106-99-0	54.09	4.4	U	2.0			
2-Butanone (Methyl ethyl ketone)	78-93-3	72.11	17	J	5.6			
Carbon disulfide	75-15-0	76.14	3.1	U	1.0			
Carbon tetrachloride	56-23-5	153.8	6.3	U	1.0			
Chlorobenzene	108-90-7	112.6	4.6	U	1.0			
Chlorodifluoromethane	75-45-6	86.47	3.5	U	1.0			
Chloroethane	75-00-3	64.52	2.6	U	1.0			
Chloroform	67-66-3	119.4	3.1	J	0.63			
Chloromethane (Methyl chloride)	74-87-3	50.49	2.1	U	1.0			
3-Chloropropene (allyl chloride)	107-05-1	76.53	3.1	U	1.0			
Cumene	98-82-8	120.2	1.1	J	0.21			
Dibromochloromethane	124-48-1	208.3	8.5	U	1.0			
1,2-Dibromoethane	106-93-4	187.9	7.7	U	1.0			
Dibromomethane	74-95-3	173.8	7.1	U	1.0			
1,2-Dichlorobenzene	95-50-1	147.0	6.0	U	1.0			
1,3-Dichlorobenzene	541-73-1	147.0	6.0	U	1.0			
1,4-Dichlorobenzene	106-46-7	147.0	6.0	U	1.0			
Dichlorodifluoromethane	75-71-8	120.9	2.3	J	0.46			
1,1-Dichloroethane	75-34-3	98.96	4.0	U	1.0			
1,2-Dichloroethane	107-06-2	98.96	4.0	U	1.0			
1,1-Dichloroethene	75-35-4	96.94	4.0	U	1.0			
1,2-Dichloroethene (cis)	156-59-2	96.94	4.0	U	1.0			
1,2-Dichloroethene (trans)	156-60-5	96.94	4.0	U	1.0			
Dichlorofluoromethane	75-43-4	102.9	4.2	U	1.0			
1,2-Dichloropropane	78-87-5	113.0	4.6	U	1.0			
cis-1,3-Dichloropropene	10061-01-5	111.0	4.5	U	1.0			
trans-1,3-Dichloropropene	10061-02-6	111.0	4.5	U	1.0			
Ethylbenzene	100-41-4	106.2	50	J	11			
4-Ethyltoluene (p-Ethyltoluene)	622-96-8	120.2	4.9	U	1.0			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon TF)	76-13-1	187.4	15	U	2.0			
1,2-Dichlorotetrafluoroethane (Freon 114)	76-14-2	170.9	7.0	U	1.0			
n-Heptane	142-82-5	100.2	2.6	J	0.64			
Hexachloroethane	67-72-1	236.7	9.7	U	1.0			
n-Hexane	110-54-3	86.17	3.5	U	1.0			
2-Hexanone	591-78-6	100.2	4.0	J	0.97			
2,2,4-Trimethylpentane	540-84-1	114.2	4.7	U	1.0			
MTBE (Methyl tert-butyl ether)	1634-04-4	88.15	3.6	U	1.0			
4-Methyl-2-pentanone (MIBK)	108-10-1	100.2	8.2	U	2.0			
Methylene chloride	75-09-2	84.94	3.5	U	1.0			
Octane	111-65-9	114.2	2.6	J	0.55			
Pentane	109-66-0	72.15	1.5	J	0.50			
Styrene	100-42-5	104.1	4.3	U	1.0			
1,1,1,2-Tetrachloroethane	630-20-6	167.8	6.9	U	1.0			
1,1,2,2-Tetrachloroethane	79-34-5	167.9	6.9	U	1.0			
Tetrachloroethene (PCE)	127-18-4	165.8	6.8	U	1.0			
Toluene	108-88-3	92.14	7.2	J	1.9			
1,1,1-Trichloroethane	71-55-6	133.4	5.5	U	1.0			
1,1,2-Trichloroethane	79-00-5	133.4	5.5	U	1.0			
Trichloroethene (TCE)	79-01-6	131.4	11	J	2.0			
Trichlorofluoromethane (Freon 11)	75-69-4	137.4	5.6	U	1.0			
1,2,3-Trichloropropane	96-18-4	147.4	6.0	U	1.0			
1,2,4-Trimethylbenzene	95-63-6	120.2	2.1	J	0.42			
1,3,5-Trimethylbenzene	108-67-8	120.2	1.6	J	0.32			
Vinyl chloride	75-01-4	62.50	2.6	U	1.0			
Xylenes (m&p)	179601-23-1	106.2	200		46			

Project Name: SSP-1428
 Field ID Number: SVMP-01R
 Laboratory ID Number: 8087715
 SDG Number: SSX23

Sampling Date: 10/10/2015
 Analysis Date: 10/17/2015

TARGET ANALYTES -
 AIR RESULT

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
EPA TO-15			ug/m3		ppb(v)			
Xylenes (o)	95-47-6	106.2	71		16			

Volatile Tentatively Identified Compounds	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
EPA TO-15			ug/m3		ppb(v)			
Norflurane	811-97-2		2	J		1.82		
Butane	106-97-8		2	J		2.22		
Acetaldehyde	75-07-0		2	J		2.35		
Total Tics	TOTVOATIC		5	J				

TARGET ANALYTES -
 AIR RESULT

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
EPA TO-15								
			ug/m3		ppb(v)			
Acetone (2-propanone)	67-64-1	58.08	30		13			
Benzene	71-43-2	78.11	0.90	J	0.28			
Bromobenzene	108-86-1	157.0	6.4	U	1.0			
Bromodichloromethane	75-27-4	163.8	6.7	U	1.0			
Bromoform	75-25-2	252.8	10	U	1.0			
Bromomethane (Methyl bromide)	74-83-9	94.94	3.9	U	1.0			
1,3-Butadiene	106-99-0	54.09	4.4	U	2.0			
2-Butanone (Methyl ethyl ketone)	78-93-3	72.11	13		4.4			
Carbon disulfide	75-15-0	76.14	1.8	J	0.58			
Carbon tetrachloride	56-23-5	153.8	6.3	U	1.0			
Chlorobenzene	108-90-7	112.6	4.6	U	1.0			
Chlorodifluoromethane	75-45-6	86.47	3.5	U	1.0			
Chloroethane	75-00-3	64.52	2.6	U	1.0			
Chloroform	67-66-3	119.4	1.1	J	0.23			
Chloromethane (Methyl chloride)	74-87-3	50.49	2.1	U	1.0			
3-Chloropropene (allyl chloride)	107-05-1	76.53	3.1	U	1.0			
Cumene	98-82-8	120.2	4.9	U	1.0			
Dibromochloromethane	124-48-1	208.3	8.5	U	1.0			
1,2-Dibromoethane	106-93-4	187.9	7.7	U	1.0			
Dibromomethane	74-95-3	173.8	7.1	U	1.0			
1,2-Dichlorobenzene	95-50-1	147.0	6.0	U	1.0			
1,3-Dichlorobenzene	541-73-1	147.0	6.0	U	1.0			
1,4-Dichlorobenzene	106-46-7	147.0	6.0	U	1.0			
Dichlorodifluoromethane	75-71-8	120.9	4.9	U	1.0			
1,1-Dichloroethane	75-34-3	98.96	4.0	U	1.0			
1,2-Dichloroethane	107-06-2	98.96	4.0	U	1.0			
1,1-Dichloroethene	75-35-4	96.94	4.0	U	1.0			
1,2-Dichloroethene (cis)	156-59-2	96.94	4.0	U	1.0			
1,2-Dichloroethene (trans)	156-60-5	96.94	4.0	U	1.0			
Dichlorofluoromethane	75-43-4	102.9	4.2	U	1.0			
1,2-Dichloropropane	78-87-5	113.0	7.2		1.6			
cis-1,3-Dichloropropene	10061-01-5	111.0	4.5	U	1.0			
trans-1,3-Dichloropropene	10061-02-6	111.0	4.5	U	1.0			
Ethylbenzene	100-41-4	106.2	7.8		1.8			
4-Ethyltoluene (p-Ethyltoluene)	622-96-8	120.2	4.9	U	1.0			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon TF)	76-13-1	187.4	15	U	2.0			
1,2-Dichlorotetrafluoroethane (Freon 114)	76-14-2	170.9	7.0	U	1.0			
n-Heptane	142-82-5	100.2	2.9	J	0.71			
Hexachloroethane	67-72-1	236.7	9.7	U	1.0			
n-Hexane	110-54-3	86.17	10		3.0			
2-Hexanone	591-78-6	100.2	8.2	U	2.0			
2,2,4-Trimethylpentane	540-84-1	114.2	4.7	U	1.0			
MTBE (Methyl tert-butyl ether)	1634-04-4	88.15	3.6	U	1.0			
4-Methyl-2-pentanone (MIBK)	108-10-1	100.2	8.2	U	2.0			
Methylene chloride	75-09-2	84.94	3.5	U	1.0			
Octane	111-65-9	114.2	4.7	U	1.0			
Pentane	109-66-0	72.15	34		12			
Styrene	100-42-5	104.1	4.3	U	1.0			
1,1,1,2-Tetrachloroethane	630-20-6	167.8	6.9	U	1.0			
1,1,2,2-Tetrachloroethane	79-34-5	167.9	6.9	U	1.0			
Tetrachloroethene (PCE)	127-18-4	165.8	6.8	U	1.0			
Toluene	108-88-3	92.14	11		3.0			
1,1,1-Trichloroethane	71-55-6	133.4	5.5	U	1.0			
1,1,2-Trichloroethane	79-00-5	133.4	5.5	U	1.0			
Trichloroethene (TCE)	79-01-6	131.4	190		36			
Trichlorofluoromethane (Freon 11)	75-69-4	137.4	1.6	J	0.28			
1,2,3-Trichloropropane	96-18-4	147.4	6.0	U	1.0			
1,2,4-Trimethylbenzene	95-63-6	120.2	4.9	U	1.0			
1,3,5-Trimethylbenzene	108-67-8	120.2	4.9	U	1.0			
Vinyl chloride	75-01-4	62.50	2.6	U	1.0			
Xylenes (m&p)	179601-23-1	106.2	68		16			

Project Name: SSP-1428
 Field ID Number: SVMP-09
 Laboratory ID Number: 8087716
 SDG Number: SSX23

Sampling Date: 10/12/2015
 Analysis Date: 10/17/2015

TARGET ANALYTES -
 AIR RESULT

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
EPA TO-15			ug/m3		ppb(v)			
Xylenes (o)	95-47-6	106.2	11		2.5			

Volatile Tentatively Identified Compounds	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention Time NT Only	QAS Decision	Footnote
EPA TO-15			ug/m3		ppb(v)			
Propene, hexafluoro-	116-15-4		300	J		1.74		
Unknown			12	J		1.99		
Unknown			17	J		2.36		
Unknown			3	J		2.41		
Cyclopropane, 1,1-dimethyl-	1630-94-0		2	J		2.68		
Unknown			2	J		2.70		
Butane, 2-methyl-	78-78-4		6	J		2.81		
Unknown			1	J		2.88		
Unknown			2	J		3.44		
Furan, tetrahydro-2-methyl-	96-47-9		1	J		4.52		
Unknown			1	J		4.96		
1-Hexene	592-41-6		3	J		5.32		
Total Tics	TOTVOATIC		350	J				

Volatile Organics in Air by GC/MS Data

Case Narrative/Conformance Summary

Volatile Organics in Air by GC/MS

Case Narrative/Conformance Summary

CLIENT: CenterPoint Properties
SDG: SSX23

Volatiles in Air

Fraction: Volatile Organics in Air by GC/MS

Sample #	Client ID	DF	Comments
8087710	SVMP-08	1	
8087711	SVMP-07	1	
8087712	SVMP-04R	10	
8087713	SVMP-04R DUP	1; 10	Field Duplicate Sample
8087714	SVMP-02R	1; 10	
8087715	SVMP-01R	1	
8087716	SVMP-09	1	

See QC Reference List for Associated Batch QC Samples

SAMPLE RECEIPT:

Samples were received in good condition and within temperature requirements.

HOLDING TIME:

All holding times were met.

CALIBRATION/STANDARDIZATION:

All criteria were met.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

LCS/LCSD

(Sample number(s): 8087710-8087716: Analysis: 05298)
The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:
tetrachloroethene

Batch#: C1528830AA

The recovery(ies) for the following analyte(s) in the LCS is below the acceptance window:
Tetrachloroethene

Case Narrative/Conformance Summary

CLIENT: CenterPoint Properties
SDG: SSX23

Volatiles in Air

Fraction: Volatile Organics in Air by GC/MS

SAMPLE ANALYSIS:

(Sample number(s): 8087712: Analysis: 05298)
Reporting limits were raised due to interference from the sample matrix.

Abbreviation Key

LOQ = Limit of Quantitation	LCS = Lab Control Sample
MDL = Method Detection Limit	LCSD = Lab Control Sample Duplicate
ND = Not Detected	RE = Repreparation/Reanalysis
J = Estimated Value	* = Out of Specification
E= out of calibration range	

MDL Summary

Volatile Organics in Air by GC/MS

Analytical Method:
TO-15
Instrument type: HP6890/5973

GC/MS Volatiles in Air MDL Study

Instrument ID	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i
Datafile	db00511.d	db00512.d	db00513.d	db00514.d	db00515.d	db00516.d	db00517.d
Injection Date	2/24/2015 11:09	2/24/2015 11:55	2/24/2015 12:41	2/24/2015 13:27	2/24/2015 14:14	2/24/2015 15:01	2/24/2015 15:48
Lab Sample ID	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5
Client Sample ID	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5

Compound Name	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Mean Concentration (ppbv)	Standard Deviation	Student T value used	Sample MDL (ppbv)	Sample Spike Level (ppbv)	Average %Rec.	10x Rule?	4x Rule?
Propene	0.580	0.611	0.653	0.583	0.618	0.615	0.643	0.615	0.027	3.143	0.086	0.50	123	pass	pass
Dichlorodifluoromethane	0.501	0.513	0.498	0.499	0.496	0.516	0.530	0.508	0.013	3.143	0.039	0.50	102	fail	pass
Chlorodifluoromethane	0.576	0.575	0.647	0.630	0.600	0.612	0.646	0.612	0.030	3.143	0.095	0.50	122	pass	pass
Freon 114	0.432	0.439	0.438	0.425	0.433	0.438	0.468	0.439	0.014	3.143	0.043	0.50	88	fail	pass
Chloromethane	0.473	0.428	0.453	0.524	0.496	0.521	0.498	0.485	0.035	3.143	0.111	0.50	97	pass	pass
Vinyl Chloride	0.376	0.387	0.400	0.387	0.421	0.397	0.455	0.403	0.027	3.143	0.084	0.50	81	pass	pass
1,3-Butadiene	0.316	0.318	0.309	0.329	0.352	0.390	0.352	0.338	0.029	3.143	0.090	0.50	68	pass	pass
Bromomethane	0.425	0.441	0.444	0.450	0.439	0.443	0.480	0.446	0.017	3.143	0.053	0.50	89	pass	pass
Chloroethane	0.423	0.471	0.434	0.430	0.453	0.465	0.499	0.454	0.027	3.143	0.085	0.50	91	pass	pass
Bromoethene	0.461	0.455	0.449	0.480	0.470	0.461	0.489	0.466	0.014	3.143	0.044	0.50	93	fail	pass
Dichlorofluoromethane	0.496	0.518	0.505	0.513	0.519	0.534	0.545	0.519	0.017	3.143	0.052	0.50	104	pass	pass
Trichlorofluoromethane	0.487	0.493	0.479	0.484	0.477	0.492	0.510	0.489	0.011	3.143	0.035	0.50	98	fail	pass
Pentane	0.497	0.518	0.533	0.517	0.543	0.541	0.560	0.530	0.021	3.143	0.065	0.50	106	pass	pass
Ethanol	1.739	1.863	1.803	1.878	1.852	2.022	2.088	1.892	0.122	3.143	0.383	0.50	378	pass	pass
Freon123a	0.578	0.600	0.557	0.591	0.596	0.614	0.638	0.596	0.026	3.143	0.081	0.50	119	pass	pass
Acrolein	0.613	0.683	0.618	0.585	0.640	0.637	0.674	0.636	0.034	3.143	0.108	0.50	127	pass	pass
1,1-Dichloroethene	0.481	0.506	0.472	0.493	0.494	0.520	0.518	0.498	0.018	3.143	0.057	0.50	100	pass	pass
Freon 113	0.452	0.485	0.455	0.476	0.485	0.502	0.536	0.484	0.029	3.143	0.090	0.50	97	pass	pass
Acetone	1.417	1.475	1.416	1.494	1.564	1.652	1.759	1.540	0.128	3.143	0.402	0.50	308	pass	pass
Methyl Iodide	0.495	0.510	0.498	0.510	0.511	0.516	0.550	0.513	0.018	3.143	0.057	0.50	103	pass	pass
Carbon Disulfide	0.638	0.633	0.626	0.639	0.635	0.680	0.691	0.649	0.026	3.143	0.080	0.50	130	pass	pass
Isopropanol	0.781	0.835	0.838	0.835	0.896	0.851	0.885	0.846	0.038	3.143	0.119	0.50	169	pass	pass
Acetonitrile	0.621	0.681	0.689	0.661	0.727	0.726	0.767	0.696	0.048	3.143	0.152	1.00	70	pass	pass
3-Chloropropene	0.474	0.492	0.522	0.486	0.529	0.547	0.536	0.512	0.028	3.143	0.088	0.50	102	pass	pass
Methylene Chloride	1.060	1.062	1.046	1.103	1.096	1.135	1.178	1.097	0.047	3.143	0.148	0.50	219	pass	pass
tert-Butyl Alcohol	0.457	0.466	0.455	0.363	0.541	0.442	0.302	0.432	0.077	3.143	0.243	0.50	86	pass	pass
Acrylonitrile	0.506	0.591	0.535	0.531	0.573	0.554	0.553	0.549	0.028	3.143	0.088	0.50	110	pass	pass
trans-1,2-Dichloroethene	0.503	0.530	0.495	0.492	0.513	0.536	0.540	0.516	0.020	3.143	0.062	0.50	103	pass	pass
Methyl t-Butyl Ether	0.488	0.547	0.523	0.543	0.542	0.561	0.591	0.542	0.032	3.143	0.100	0.50	108	pass	pass

Analytical Method:
TO-15
Instrument type: HP6890/5973

GC/MS Volatiles in Air MDL Study

Instrument ID	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i
Datafile	db00511.d	db00512.d	db00513.d	db00514.d	db00515.d	db00516.d	db00517.d
Injection Date	2/24/2015 11:09	2/24/2015 11:55	2/24/2015 12:41	2/24/2015 13:27	2/24/2015 14:14	2/24/2015 15:01	2/24/2015 15:48
Lab Sample ID	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5
Client Sample ID	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5

Compound Name	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Mean Concentration (ppbv)	Standard Deviation	Student T value used	Sample MDL (ppbv)	Sample Spike Level (ppbv)	Average %Rec.	10x Rule?	4x Rule?
Hexane	0.409	0.435	0.416	0.438	0.453	0.488	0.498	0.448	0.034	3.143	0.107	0.50	90	pass	pass
1,1-Dichloroethane	0.517	0.539	0.522	0.552	0.556	0.561	0.595	0.549	0.026	3.143	0.083	0.50	110	pass	pass
Vinyl Acetate	0.263	0.373	0.263	0.259	0.317	0.375	0.372	0.317	0.056	3.143	0.176	1.00	32	pass	pass
Di-Isopropyl Ether	0.368	0.409	0.387	0.386	0.407	0.404	0.445	0.401	0.024	3.143	0.077	0.50	80	pass	pass
Ethyl Tert-Butyl Ether	0.349	0.397	0.387	0.394	0.396	0.416	0.448	0.398	0.030	3.143	0.094	0.50	80	pass	pass
cis-1,2-Dichloroethene	0.426	0.475	0.455	0.486	0.478	0.497	0.527	0.478	0.032	3.143	0.100	0.50	96	pass	pass
1,2-Dichloroethene (total)	0.928	1.006	0.950	0.978	0.991	1.032	1.067	0.993	0.047	3.143	0.149	0.50	199	pass	pass
2-Butanone	0.474	0.543	0.513	0.577	0.566	0.593	0.658	0.561	0.059	3.143	0.186	0.50	112	pass	pass
Ethyl Acetate	0.455	0.453	0.454	0.494	0.478	0.582	0.465	0.483	0.046	3.143	0.145	0.50	97	pass	pass
Methyl Acrylate	0.372	0.419	0.400	0.416	0.440	0.456	0.489	0.427	0.038	3.143	0.120	0.50	85	pass	pass
Tetrahydrofuran	0.389	0.457	0.386	0.421	0.427	0.421	0.479	0.426	0.034	3.143	0.106	0.50	85	pass	pass
Chloroform	0.515	0.553	0.517	0.546	0.546	0.552	0.601	0.547	0.029	3.143	0.090	0.50	109	pass	pass
1,1,1-Trichloroethane	0.477	0.519	0.473	0.499	0.501	0.525	0.525	0.503	0.022	3.143	0.068	0.50	101	pass	pass
Cyclohexane	0.340	0.362	0.353	0.360	0.363	0.391	0.391	0.366	0.019	3.143	0.060	0.50	73	pass	pass
Carbon Tetrachloride	0.490	0.511	0.474	0.497	0.507	0.513	0.549	0.506	0.023	3.143	0.074	0.50	101	pass	pass
Benzene	0.535	0.597	0.555	0.599	0.592	0.626	0.652	0.594	0.040	3.143	0.125	0.50	119	pass	pass
1,2-Dichloroethane	0.544	0.571	0.537	0.583	0.560	0.601	0.631	0.575	0.033	3.143	0.104	0.50	115	pass	pass
Isooctane	0.355	0.382	0.371	0.391	0.404	0.405	0.429	0.391	0.024	3.143	0.077	0.50	78	pass	pass
Tert-Amyl Methyl Ether	0.375	0.425	0.393	0.420	0.415	0.452	0.472	0.422	0.033	3.143	0.104	0.50	84	pass	pass
Heptane	0.348	0.391	0.387	0.391	0.411	0.436	0.435	0.400	0.031	3.143	0.097	0.50	80	pass	pass
Trichloroethene	0.453	0.498	0.470	0.488	0.511	0.517	0.550	0.498	0.032	3.143	0.101	0.50	100	pass	pass
Ethyl Acrylate	0.317	0.380	0.358	0.387	0.413	0.421	0.422	0.385	0.038	3.143	0.121	0.50	77	pass	pass
1,2-Dichloropropane	0.478	0.531	0.480	0.522	0.529	0.565	0.574	0.526	0.037	3.143	0.117	0.50	105	pass	pass
Dibromomethane	0.505	0.545	0.504	0.540	0.549	0.580	0.576	0.543	0.030	3.143	0.095	0.50	109	pass	pass
1,4-Dioxane	0.276	0.328	0.280	0.317	0.341	0.318	0.336	0.314	0.026	3.143	0.081	0.50	63	pass	pass
Methyl Methacrylate	0.323	0.351	0.320	0.339	0.367	0.412	0.429	0.363	0.043	3.143	0.134	0.50	73	pass	pass
Bromodichloromethane	0.514	0.560	0.500	0.538	0.556	0.562	0.592	0.546	0.031	3.143	0.098	0.50	109	pass	pass
cis-1,3-Dichloropropene	0.391	0.424	0.395	0.417	0.419	0.458	0.474	0.425	0.031	3.143	0.096	0.50	85	pass	pass
4-Methyl-2-Pentanone	0.527	0.542	0.541	0.555	0.553	0.611	0.591	0.560	0.030	3.143	0.094	0.50	112	pass	pass

Analytical Method:
TO-15
Instrument type: HP6890/5973

GC/MS Volatiles in Air MDL Study

Instrument ID	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i
Datafile	db00511.d	db00512.d	db00513.d	db00514.d	db00515.d	db00516.d	db00517.d
Injection Date	2/24/2015 11:09	2/24/2015 11:55	2/24/2015 12:41	2/24/2015 13:27	2/24/2015 14:14	2/24/2015 15:01	2/24/2015 15:48
Lab Sample ID	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5
Client Sample ID	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5

Compound Name	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Mean Concentration (ppbv)	Standard Deviation	Student T value used	Sample MDL (ppbv)	Sample Spike Level (ppbv)	Average %Rec.	10x Rule?	4x Rule?
Toluene	0.663	0.690	0.621	0.631	0.620	0.632	0.634	0.642	0.026	3.143	0.081	0.50	128	pass	pass
Octane	0.342	0.365	0.320	0.346	0.332	0.364	0.362	0.347	0.017	3.143	0.055	0.50	69	pass	pass
trans-1,3-Dichloropropene	0.440	0.460	0.417	0.435	0.425	0.430	0.454	0.437	0.015	3.143	0.048	0.50	87	fail	pass
1,3-Dichloropropene (total)	0.831	0.884	0.812	0.852	0.844	0.888	0.929	0.863	0.040	3.143	0.125	0.50	173	pass	pass
Ethyl Methacrylate	0.321	0.337	0.284	0.313	0.321	0.314	0.328	0.317	0.017	3.143	0.052	0.50	63	pass	pass
1,1,2-Trichloroethane	0.627	0.621	0.543	0.554	0.556	0.556	0.582	0.577	0.034	3.143	0.108	0.50	115	pass	pass
Tetrachloroethene	0.629	0.616	0.572	0.578	0.566	0.570	0.587	0.588	0.025	3.143	0.077	0.50	118	pass	pass
2-Hexanone	0.375	0.398	0.336	0.372	0.389	0.367	0.374	0.373	0.020	3.143	0.061	0.50	75	pass	pass
Dibromochloromethane	0.529	0.550	0.498	0.500	0.499	0.503	0.509	0.513	0.020	3.143	0.062	0.50	103	pass	pass
1,2-Dibromoethane	0.521	0.545	0.474	0.508	0.480	0.490	0.490	0.501	0.025	3.143	0.079	0.50	100	pass	pass
Chlorobenzene	0.637	0.616	0.570	0.599	0.580	0.579	0.603	0.598	0.024	3.143	0.074	0.50	120	pass	pass
1,1,1,2-Tetrachloroethane	0.572	0.589	0.522	0.540	0.502	0.520	0.527	0.539	0.031	3.143	0.097	0.50	108	pass	pass
Ethylbenzene	0.388	0.407	0.368	0.390	0.379	0.379	0.396	0.387	0.013	3.143	0.040	0.50	77	fail	pass
m/p-Xylene	0.327	0.360	0.308	0.330	0.326	0.334	0.346	0.333	0.016	3.143	0.052	0.50	67	pass	pass
o-Xylene	0.305	0.330	0.289	0.309	0.317	0.307	0.318	0.311	0.013	3.143	0.040	0.50	62	fail	pass
Xylene (total)	0.632	0.691	0.597	0.640	0.643	0.641	0.665	0.644	0.029	3.143	0.091	0.50	129	pass	pass
Styrene	0.297	0.332	0.288	0.300	0.311	0.312	0.326	0.309	0.016	3.143	0.050	0.50	62	fail	pass
Bromoform	0.503	0.504	0.468	0.471	0.470	0.473	0.483	0.482	0.016	3.143	0.049	0.50	96	fail	pass
Cumene	0.291	0.319	0.289	0.294	0.300	0.307	0.315	0.302	0.012	3.143	0.037	0.50	60	fail	pass
Bromobenzene	0.455	0.501	0.437	0.463	0.449	0.461	0.458	0.461	0.020	3.143	0.062	0.50	92	pass	pass
1,1,2,2-Tetrachloroethane	0.555	0.590	0.538	0.554	0.551	0.547	0.567	0.557	0.017	3.143	0.053	0.50	111	pass	pass
1,2,3-Trichloropropane	0.502	0.544	0.505	0.504	0.497	0.485	0.499	0.505	0.018	3.143	0.058	0.50	101	pass	pass
n-Propylbenzene	0.289	0.360	0.298	0.306	0.311	0.312	0.338	0.316	0.025	3.143	0.077	0.50	63	pass	pass
2-Chlorotoluene	0.375	0.439	0.388	0.409	0.407	0.409	0.411	0.405	0.020	3.143	0.063	0.50	81	pass	pass
4-Ethyltoluene	0.322	0.370	0.325	0.330	0.351	0.342	0.351	0.342	0.017	3.143	0.054	0.50	68	pass	pass
1,3,5-Trimethylbenzene	0.351	0.387	0.334	0.361	0.365	0.371	0.380	0.364	0.018	3.143	0.056	0.50	73	pass	pass
Alpha Methyl Styrene	0.237	0.270	0.235	0.257	0.251	0.246	0.258	0.251	0.012	3.143	0.039	0.50	50	fail	pass
tert-Butylbenzene	0.316	0.358	0.316	0.323	0.338	0.331	0.347	0.333	0.016	3.143	0.050	0.50	67	pass	pass
1,2,4-Trimethylbenzene	0.353	0.412	0.368	0.380	0.401	0.398	0.404	0.388	0.022	3.143	0.068	0.50	78	pass	pass

Analytical Method:
TO-15
Instrument type: HP6890/5973

GC/MS Volatiles in Air MDL Study

Instrument ID	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i	HP10145.i
Datafile	db00511.d	db00512.d	db00513.d	db00514.d	db00515.d	db00516.d	db00517.d
Injection Date	2/24/2015 11:09	2/24/2015 11:55	2/24/2015 12:41	2/24/2015 13:27	2/24/2015 14:14	2/24/2015 15:01	2/24/2015 15:48
Lab Sample ID	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5
Client Sample ID	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5	MDL0.5

Compound Name	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Concentration (ppbv)	Mean Concentration (ppbv)	Standard Deviation	Student T value used	Sample MDL (ppbv)	Sample Spike Level (ppbv)	Average %Rec.	10x Rule?	4x Rule?
sec-Butylbenzene	0.317	0.344	0.303	0.319	0.337	0.325	0.342	0.327	0.015	3.143	0.047	0.50	65	fail	pass
1,3-Dichlorobenzene	0.450	0.491	0.451	0.457	0.478	0.483	0.484	0.471	0.017	3.143	0.054	0.50	94	pass	pass
1,4-Dichlorobenzene	0.425	0.467	0.403	0.431	0.462	0.446	0.452	0.441	0.023	3.143	0.071	0.50	88	pass	pass
p-Isopropyltoluene	0.315	0.365	0.311	0.332	0.352	0.349	0.362	0.341	0.022	3.143	0.069	0.50	68	pass	pass
Benzyl Chloride	0.342	0.369	0.325	0.337	0.374	0.351	0.364	0.352	0.018	3.143	0.057	0.50	70	pass	pass
1,2-Dichlorobenzene	0.391	0.435	0.380	0.401	0.442	0.409	0.427	0.412	0.023	3.143	0.073	0.50	82	pass	pass
n-Butylbenzene	0.292	0.342	0.289	0.312	0.359	0.329	0.341	0.323	0.027	3.143	0.084	0.50	65	pass	pass
Hexachloroethane	0.391	0.395	0.380	0.383	0.380	0.383	0.380	0.385	0.006	3.143	0.019	0.50	77	fail	pass
1,2-Dibromo-3-chloropropane	0.353	0.419	0.382	0.377	0.486	0.437	0.430	0.412	0.045	3.143	0.141	0.50	82	pass	pass
1,2,4-Trichlorobenzene	0.185	0.262	0.228	0.210	0.411	0.318	0.262	0.268	0.076	4.143	0.316	0.50	54	pass	pass
Hexachlorobutadiene	0.521	0.603	0.549	0.542	0.621	0.596	0.534	0.567	0.039	5.143	0.201	0.50	113	pass	pass
Naphthalene	0.164	0.222	0.208	0.194	0.382	0.284	0.249	0.243	0.072	6.143	0.444	0.50	49	pass	pass

QC Summary

Volatile Organics in Air by GC/MS

**Quality Control Reference List
Volatiles in Air**

**CLIENT: CenterPoint Properties
SDG: SSX23**

Fraction: Volatile Organics in Air by GC/MS

Analysis	Batch Number	Sample Number	Analysis Date
TO 15 VOA Ext. List	C1528830AA	VBLKC06	10/16/2015 12:23:00
		LCSC06	10/16/2015 13:09:00
		LCSDC06	10/16/2015 13:54:00
TO 15 VOA Ext. List	C1528830AB	VBLKC07	10/16/2015 17:03:00
		8087710	10/17/2015 01:33:00
		8087711	10/17/2015 02:21:00
		8087713	10/17/2015 03:56:00
		8087714	10/17/2015 04:43:00
		8087715	10/17/2015 05:30:00
		8087716	10/17/2015 06:17:00
TO 15 VOA Ext. List	C1528830AC	VBLKC15	10/19/2015 15:59:00
		8087712	10/19/2015 19:35:00
		8087713	10/19/2015 20:18:00
		8087714	10/19/2015 21:00:00

Fraction: Volatile Organics in Air by GC/MS

C1528830AA / VBLKC06 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Dichlorodifluoromethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Chlorodifluoromethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Chloromethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Freon 114	10/16/15	N.D.	ppb(v)	0.20	1.0
Vinyl Chloride	10/16/15	N.D.	ppb(v)	0.20	1.0
1,3-Butadiene	10/16/15	N.D.	ppb(v)	0.40	2.0
Bromomethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Chloroethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Dichlorofluoromethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Trichlorofluoromethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Pentane	10/16/15	N.D.	ppb(v)	0.50	1.0
1,1-Dichloroethene	10/16/15	N.D.	ppb(v)	0.20	1.0
Freon 113	10/16/15	N.D.	ppb(v)	0.50	2.0
Acetone	10/16/15	N.D.	ppb(v)	0.50	2.0
Carbon Disulfide	10/16/15	N.D.	ppb(v)	0.50	1.0
3-Chloropropene	10/16/15	N.D.	ppb(v)	0.20	1.0
Methylene Chloride	10/16/15	N.D.	ppb(v)	0.20	1.0
trans-1,2-Dichloroethene	10/16/15	N.D.	ppb(v)	0.20	1.0
Methyl t-Butyl Ether	10/16/15	N.D.	ppb(v)	0.20	1.0
Hexane	10/16/15	N.D.	ppb(v)	0.20	1.0
1,1-Dichloroethane	10/16/15	N.D.	ppb(v)	0.20	1.0
cis-1,2-Dichloroethene	10/16/15	N.D.	ppb(v)	0.20	1.0
2-Butanone	10/16/15	N.D.	ppb(v)	0.50	2.0
Chloroform	10/16/15	N.D.	ppb(v)	0.20	1.0
1,1,1-Trichloroethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Carbon Tetrachloride	10/16/15	N.D.	ppb(v)	0.20	1.0
1,2-Dichloroethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Benzene	10/16/15	N.D.	ppb(v)	0.20	1.0
Isooctane	10/16/15	N.D.	ppb(v)	0.20	1.0
Heptane	10/16/15	N.D.	ppb(v)	0.50	1.0
Trichloroethene	10/16/15	N.D.	ppb(v)	0.20	1.0
1,2-Dichloropropane	10/16/15	N.D.	ppb(v)	0.20	1.0
Dibromomethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Bromodichloromethane	10/16/15	N.D.	ppb(v)	0.20	1.0
cis-1,3-Dichloropropene	10/16/15	N.D.	ppb(v)	0.20	1.0
4-Methyl-2-pentanone	10/16/15	N.D.	ppb(v)	0.50	2.0
Toluene	10/16/15	N.D.	ppb(v)	0.20	1.0
Octane	10/16/15	N.D.	ppb(v)	0.50	1.0
trans-1,3-Dichloropropene	10/16/15	N.D.	ppb(v)	0.20	1.0
1,1,2-Trichloroethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Tetrachloroethene	10/16/15	N.D.	ppb(v)	0.20	1.0
2-Hexanone	10/16/15	N.D.	ppb(v)	0.50	2.0
Dibromochloromethane	10/16/15	N.D.	ppb(v)	0.20	1.0
1,2-Dibromoethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Chlorobenzene	10/16/15	N.D.	ppb(v)	0.20	1.0

Fraction: Volatile Organics in Air by GC/MS

C1528830AA / VBLKC06					
Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
1,1,1,2-Tetrachloroethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Ethylbenzene	10/16/15	N.D.	ppb(v)	0.20	1.0
m/p-Xylene	10/16/15	N.D.	ppb(v)	0.20	1.0
o-Xylene	10/16/15	N.D.	ppb(v)	0.20	1.0
Styrene	10/16/15	N.D.	ppb(v)	0.20	1.0
Bromoform	10/16/15	N.D.	ppb(v)	0.20	1.0
Cumene	10/16/15	N.D.	ppb(v)	0.20	1.0
1,1,2,2-Tetrachloroethane	10/16/15	N.D.	ppb(v)	0.20	1.0
1,2,3-Trichloropropane	10/16/15	N.D.	ppb(v)	0.20	1.0
Bromobenzene	10/16/15	N.D.	ppb(v)	0.20	1.0
4-Ethyltoluene	10/16/15	N.D.	ppb(v)	0.20	1.0
1,3,5-Trimethylbenzene	10/16/15	N.D.	ppb(v)	0.20	1.0
1,2,4-Trimethylbenzene	10/16/15	N.D.	ppb(v)	0.20	1.0
1,3-Dichlorobenzene	10/16/15	N.D.	ppb(v)	0.20	1.0
1,4-Dichlorobenzene	10/16/15	N.D.	ppb(v)	0.20	1.0
1,2-Dichlorobenzene	10/16/15	N.D.	ppb(v)	0.20	1.0
Hexachloroethane	10/16/15	N.D.	ppb(v)	0.50	2.0

C1528830AB / VBLKC07					
Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Dichlorodifluoromethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Chlorodifluoromethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Chloromethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Freon 114	10/16/15	N.D.	ppb(v)	0.20	1.0
Vinyl Chloride	10/16/15	N.D.	ppb(v)	0.20	1.0
1,3-Butadiene	10/16/15	N.D.	ppb(v)	0.40	2.0
Bromomethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Chloroethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Dichlorofluoromethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Trichlorofluoromethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Pentane	10/16/15	N.D.	ppb(v)	0.50	1.0
1,1-Dichloroethene	10/16/15	N.D.	ppb(v)	0.20	1.0
Freon 113	10/16/15	N.D.	ppb(v)	0.50	2.0
Acetone	10/16/15	N.D.	ppb(v)	0.50	2.0
Carbon Disulfide	10/16/15	N.D.	ppb(v)	0.50	1.0
3-Chloropropene	10/16/15	N.D.	ppb(v)	0.20	1.0
Methylene Chloride	10/16/15	N.D.	ppb(v)	0.20	1.0
trans-1,2-Dichloroethene	10/16/15	N.D.	ppb(v)	0.20	1.0
Methyl t-Butyl Ether	10/16/15	N.D.	ppb(v)	0.20	1.0
Hexane	10/16/15	N.D.	ppb(v)	0.20	1.0
1,1-Dichloroethane	10/16/15	N.D.	ppb(v)	0.20	1.0
cis-1,2-Dichloroethene	10/16/15	N.D.	ppb(v)	0.20	1.0
2-Butanone	10/16/15	N.D.	ppb(v)	0.50	2.0
Chloroform	10/16/15	N.D.	ppb(v)	0.20	1.0
1,1,1-Trichloroethane	10/16/15	N.D.	ppb(v)	0.20	1.0

Fraction: Volatile Organics in Air by GC/MS

C1528830AB / VBLKC07					
Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Carbon Tetrachloride	10/16/15	N.D.	ppb(v)	0.20	1.0
1,2-Dichloroethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Benzene	10/16/15	N.D.	ppb(v)	0.20	1.0
Isooctane	10/16/15	N.D.	ppb(v)	0.20	1.0
Heptane	10/16/15	N.D.	ppb(v)	0.50	1.0
Trichloroethene	10/16/15	N.D.	ppb(v)	0.20	1.0
1,2-Dichloropropane	10/16/15	N.D.	ppb(v)	0.20	1.0
Dibromomethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Bromodichloromethane	10/16/15	N.D.	ppb(v)	0.20	1.0
cis-1,3-Dichloropropene	10/16/15	N.D.	ppb(v)	0.20	1.0
4-Methyl-2-pentanone	10/16/15	N.D.	ppb(v)	0.50	2.0
Toluene	10/16/15	N.D.	ppb(v)	0.20	1.0
Octane	10/16/15	N.D.	ppb(v)	0.50	1.0
trans-1,3-Dichloropropene	10/16/15	N.D.	ppb(v)	0.20	1.0
1,1,2-Trichloroethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Tetrachloroethene	10/16/15	N.D.	ppb(v)	0.20	1.0
2-Hexanone	10/16/15	N.D.	ppb(v)	0.50	2.0
Dibromochloromethane	10/16/15	N.D.	ppb(v)	0.20	1.0
1,2-Dibromoethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Chlorobenzene	10/16/15	N.D.	ppb(v)	0.20	1.0
1,1,1,2-Tetrachloroethane	10/16/15	N.D.	ppb(v)	0.20	1.0
Ethylbenzene	10/16/15	N.D.	ppb(v)	0.20	1.0
m/p-Xylene	10/16/15	N.D.	ppb(v)	0.20	1.0
o-Xylene	10/16/15	N.D.	ppb(v)	0.20	1.0
Styrene	10/16/15	N.D.	ppb(v)	0.20	1.0
Bromoform	10/16/15	N.D.	ppb(v)	0.20	1.0
Cumene	10/16/15	N.D.	ppb(v)	0.20	1.0
1,1,2,2-Tetrachloroethane	10/16/15	N.D.	ppb(v)	0.20	1.0
1,2,3-Trichloropropane	10/16/15	N.D.	ppb(v)	0.20	1.0
Bromobenzene	10/16/15	N.D.	ppb(v)	0.20	1.0
4-Ethyltoluene	10/16/15	N.D.	ppb(v)	0.20	1.0
1,3,5-Trimethylbenzene	10/16/15	N.D.	ppb(v)	0.20	1.0
1,2,4-Trimethylbenzene	10/16/15	N.D.	ppb(v)	0.20	1.0
1,3-Dichlorobenzene	10/16/15	N.D.	ppb(v)	0.20	1.0
1,4-Dichlorobenzene	10/16/15	N.D.	ppb(v)	0.20	1.0
1,2-Dichlorobenzene	10/16/15	N.D.	ppb(v)	0.20	1.0
Hexachloroethane	10/16/15	N.D.	ppb(v)	0.50	2.0

C1528830AC / VBLKC15					
Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Dichlorodifluoromethane	10/19/15	N.D.	ppb(v)	0.20	1.0
Chlorodifluoromethane	10/19/15	N.D.	ppb(v)	0.20	1.0
Chloromethane	10/19/15	N.D.	ppb(v)	0.20	1.0
Freon 114	10/19/15	N.D.	ppb(v)	0.20	1.0
Vinyl Chloride	10/19/15	N.D.	ppb(v)	0.20	1.0

Fraction: Volatile Organics in Air by GC/MS

C1528830AC / VBLKC15 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
1,3-Butadiene	10/19/15	N.D.	ppb(v)	0.40	2.0
Bromomethane	10/19/15	N.D.	ppb(v)	0.20	1.0
Chloroethane	10/19/15	N.D.	ppb(v)	0.20	1.0
Dichlorofluoromethane	10/19/15	N.D.	ppb(v)	0.20	1.0
Trichlorofluoromethane	10/19/15	N.D.	ppb(v)	0.20	1.0
Pentane	10/19/15	N.D.	ppb(v)	0.50	1.0
1,1-Dichloroethene	10/19/15	N.D.	ppb(v)	0.20	1.0
Freon 113	10/19/15	N.D.	ppb(v)	0.50	2.0
Acetone	10/19/15	N.D.	ppb(v)	0.50	2.0
Carbon Disulfide	10/19/15	N.D.	ppb(v)	0.50	1.0
3-Chloropropene	10/19/15	N.D.	ppb(v)	0.20	1.0
Methylene Chloride	10/19/15	N.D.	ppb(v)	0.20	1.0
trans-1,2-Dichloroethene	10/19/15	N.D.	ppb(v)	0.20	1.0
Methyl t-Butyl Ether	10/19/15	N.D.	ppb(v)	0.20	1.0
Hexane	10/19/15	N.D.	ppb(v)	0.20	1.0
1,1-Dichloroethane	10/19/15	N.D.	ppb(v)	0.20	1.0
cis-1,2-Dichloroethene	10/19/15	N.D.	ppb(v)	0.20	1.0
2-Butanone	10/19/15	N.D.	ppb(v)	0.50	2.0
Chloroform	10/19/15	N.D.	ppb(v)	0.20	1.0
1,1,1-Trichloroethane	10/19/15	N.D.	ppb(v)	0.20	1.0
Carbon Tetrachloride	10/19/15	N.D.	ppb(v)	0.20	1.0
1,2-Dichloroethane	10/19/15	N.D.	ppb(v)	0.20	1.0
Benzene	10/19/15	N.D.	ppb(v)	0.20	1.0
Isooctane	10/19/15	N.D.	ppb(v)	0.20	1.0
Heptane	10/19/15	N.D.	ppb(v)	0.50	1.0
Trichloroethene	10/19/15	N.D.	ppb(v)	0.20	1.0
1,2-Dichloropropane	10/19/15	N.D.	ppb(v)	0.20	1.0
Dibromomethane	10/19/15	N.D.	ppb(v)	0.20	1.0
Bromodichloromethane	10/19/15	N.D.	ppb(v)	0.20	1.0
cis-1,3-Dichloropropene	10/19/15	N.D.	ppb(v)	0.20	1.0
4-Methyl-2-pentanone	10/19/15	N.D.	ppb(v)	0.50	2.0
Toluene	10/19/15	N.D.	ppb(v)	0.20	1.0
Octane	10/19/15	N.D.	ppb(v)	0.50	1.0
trans-1,3-Dichloropropene	10/19/15	N.D.	ppb(v)	0.20	1.0
1,1,2-Trichloroethane	10/19/15	N.D.	ppb(v)	0.20	1.0
Tetrachloroethene	10/19/15	N.D.	ppb(v)	0.20	1.0
2-Hexanone	10/19/15	N.D.	ppb(v)	0.50	2.0
Dibromochloromethane	10/19/15	N.D.	ppb(v)	0.20	1.0
1,2-Dibromoethane	10/19/15	N.D.	ppb(v)	0.20	1.0
Chlorobenzene	10/19/15	N.D.	ppb(v)	0.20	1.0
1,1,1,2-Tetrachloroethane	10/19/15	N.D.	ppb(v)	0.20	1.0
Ethylbenzene	10/19/15	N.D.	ppb(v)	0.20	1.0
m/p-Xylene	10/19/15	N.D.	ppb(v)	0.20	1.0
o-Xylene	10/19/15	N.D.	ppb(v)	0.20	1.0
Styrene	10/19/15	N.D.	ppb(v)	0.20	1.0

Fraction: Volatile Organics in Air by GC/MS

C1528830AC / VBLKC15					
Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Bromoform	10/19/15	N.D.	ppb(v)	0.20	1.0
Cumene	10/19/15	N.D.	ppb(v)	0.20	1.0
1,1,2,2-Tetrachloroethane	10/19/15	N.D.	ppb(v)	0.20	1.0
1,2,3-Trichloropropane	10/19/15	N.D.	ppb(v)	0.20	1.0
Bromobenzene	10/19/15	N.D.	ppb(v)	0.20	1.0
4-Ethyltoluene	10/19/15	N.D.	ppb(v)	0.20	1.0
1,3,5-Trimethylbenzene	10/19/15	N.D.	ppb(v)	0.20	1.0
1,2,4-Trimethylbenzene	10/19/15	N.D.	ppb(v)	0.20	1.0
1,3-Dichlorobenzene	10/19/15	N.D.	ppb(v)	0.20	1.0
1,4-Dichlorobenzene	10/19/15	N.D.	ppb(v)	0.20	1.0
1,2-Dichlorobenzene	10/19/15	N.D.	ppb(v)	0.20	1.0
Hexachloroethane	10/19/15	N.D.	ppb(v)	0.50	2.0



SDG No.:

Sample Media:	N/A	Lab Sample ID:	VBLKC07
Canister ID:	N/A	Lab File ID:	cj00353.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	250 cc	Analyzed Date:	10/16/2015
Injection Volume:	250 cc	Analyzed Time:	17:03
Instrument ID:	09464	Dilution Factor:	1

Number TICs Found: Concentration Units: ppb(v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
No Tentatively Identified Compounds Found				

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
 J = The result is between the MDL and LOQ.



SDG No.:

Sample Media:	N/A	Lab Sample ID:	VBLKC15
Canister ID:	N/A	Lab File ID:	cj00386.d
Pressure Received:	14.7 psia	Date Collected:	
Final Pressure:	14.7 psia	Date Received:	
Nominal Volume:	250 cc	Analyzed Date:	10/19/2015
Injection Volume:	250 cc	Analyzed Time:	15:59
Instrument ID:	09464	Dilution Factor:	1

Number TICs Found: Concentration Units: ppb(v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
No Tentatively Identified Compounds Found				

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
 J = The result is between the MDL and LOQ.

SDG: SSX23

Matrix: AIR

Volatiles in Air

Fraction: Volatile Organics in Air by GC/MS

Analyte	Batch: C1528830AB (Sample number(s): 8087710-8087711, 8087713-8087716) Batch: C1528830AC (Sample number(s): 8087712-8087714)							
	Spike Added ppb(v)	LCS Conc ppb(v)	LCSD Conc ppb(v)	LCS %Rec	LCSD %Rec	%Rec Limits	%RPD	%RPD Limits
Dichlorodifluoromethane	10.1	8.71	9.74	86	96	61-149	11	25
Chlorodifluoromethane	10.7	8.60	9.76	80	91	70-130	13	25
Chloromethane	10.3	9.19	11.13	89	108	54-118	19	25
Freon 114	10.3	7.42	8.69	72	84	63-123	16	25
Vinyl Chloride	10.1	8.26	10.06	82	100	70-130	20	25
1,3-Butadiene	10.2	8.55	10.04	84	98	57-138	16	25
Bromomethane	9.80	8.06	9.61	82	98	70-130	17	25
Chloroethane	9.70	7.74	9.27	80	96	63-119	18	25
Dichlorofluoromethane	10.5	8.32	9.60	79	91	70-130	14	25
Trichlorofluoromethane	10.1	8.80	9.81	87	97	70-130	11	25
Pentane	10.5	8.95	10.32	85	98	70-130	14	25
1,1-Dichloroethene	10	8.40	9.72	84	97	61-128	15	25
Freon 113	9.70	7.64	8.77	79	90	63-114	14	25
Acetone	10.7	7.44	8.65	70	81	61-134	15	25
Carbon Disulfide	10	7.80	8.89	78	89	55-121	13	25
3-Chloropropene	11	8.29	9.27	75	84	70-130	11	25
Methylene Chloride	11	8.29	9.34	75	85	70-130	12	25
trans-1,2-Dichloroethene	10	8.19	9.31	82	93	66-121	13	25
Methyl t-Butyl Ether	10.2	7.76	9.17	76	90	52-129	17	25
Hexane	10.2	8.41	9.45	82	93	63-117	12	25
1,1-Dichloroethane	10.1	7.87	8.65	78	86	67-124	9	25
cis-1,2-Dichloroethene	10.5	8.36	9.37	80	89	65-121	11	25
2-Butanone	10.4	8.12	9.57	78	92	60-135	16	25
Chloroform	10.1	7.88	8.69	78	86	70-130	10	25
1,1,1-Trichloroethane	10.3	8.45	9.09	82	88	70-130	7	25
Carbon Tetrachloride	10.4	9.16	9.64	88	93	70-130	5	25
1,2-Dichloroethane	10.4	7.85	9.27	75	89	70-130	17	25
Benzene	10.6	7.83	9.41	74	89	70-130	18	25
Isooctane	10.5	8.69	10.08	83	96	70-130	15	25
Heptane	10.5	8.48	10.2	81	97	56-123	18	25
Trichloroethene	10.3	7.82	9.09	76	88	70-130	15	25
1,2-Dichloropropane	10.3	7.60	9.28	74	90	70-130	20	25
Dibromomethane	10.5	7.58	8.78	72	84	70-130	15	25
Bromodichloromethane	10.3	8.03	9.41	78	91	62-129	16	25
cis-1,3-Dichloropropene	9.50	6.47	8.00	68	84	64-136	21	25
4-Methyl-2-pentanone	10.2	8.34	10.02	82	98	53-140	18	25
Toluene	10.6	8.13	10.07	77	95	70-130	21	25
Octane	10.3	8.82	10.64	86	103	70-130	19	25
trans-1,3-Dichloropropene	10.1	6.98	8.84	69	88	61-126	24	25
1,1,2-Trichloroethane	10.6	7.99	9.84	75	93	59-131	21	25
Tetrachloroethene	10.7	7.32	8.81	68 *	82	70-130	19	25

SDG: SSX23

Matrix: AIR

Volatiles in Air

Fraction: Volatile Organics in Air by GC/MS

Analyte	Batch: C1528830AB (Sample number(s): 8087710-8087711, 8087713-8087716) Batch: C1528830AC (Sample number(s): 8087712-8087714)							
	Spike Added ppb(v)	LCS Conc ppb(v)	LCSD Conc ppb(v)	LCS %Rec	LCSD %Rec	%Rec Limits	%RPD	%RPD Limits
2-Hexanone	10.9	8.76	11.01	80	101	47-150	23	25
Dibromochloromethane	9.80	7.84	9.39	80	96	65-127	18	25
1,2-Dibromoethane	10	7.18	8.95	72	89	65-126	22	25
Chlorobenzene	10.6	7.84	9.84	74	93	70-130	23	25
1,1,1,2-Tetrachloroethane	10.6	7.87	9.50	74	90	70-130	19	25
Ethylbenzene	10.6	8.28	9.92	78	94	70-130	18	25
m/p-Xylene	9.80	7.38	9.11	75	93	70-130	21	25
o-Xylene	10.7	8.00	9.84	75	92	70-130	21	25
Styrene	10.4	7.82	9.70	75	93	64-130	21	25
Bromoform	10	7.51	9.15	75	91	64-141	20	25
Cumene	10.4	7.98	9.93	77	96	70-130	22	25
1,1,2,2-Tetrachloroethane	10.7	7.81	9.66	73	90	58-133	21	25
1,2,3-Trichloropropane	10.2	7.59	9.15	74	90	70-130	19	25
Bromobenzene	10.6	7.71	9.38	73	88	70-130	20	25
4-Ethyltoluene	10.1	8.05	9.78	80	97	59-126	19	25
1,3,5-Trimethylbenzene	10.3	7.88	9.77	77	95	61-132	21	25
1,2,4-Trimethylbenzene	10.2	7.99	9.55	78	94	60-128	18	25
1,3-Dichlorobenzene	10.5	7.71	9.28	73	88	63-125	19	25
1,4-Dichlorobenzene	10.2	7.35	8.81	72	86	63-127	18	25
1,2-Dichlorobenzene	10.1	7.14	8.95	71	89	62-132	23	25
Hexachloroethane	10.9	7.79	9.27	71	85	70-130	17	25



SDG No.:

Lab File ID: cj00320.d

BFB Injection Date: 10/15/2015

Instrument ID: 09464

BFB Injection Time: 21:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0% - 40.0% of mass 95	13.3
75	30.0% - 66.0% of mass 95	49.3
95	Base peak, 100% relative abundance	100.0
96	5.0% - 9.0% of mass 95	6.8
173	< 2.0% of mass 174	0.0 (0.0)
174	> 50.0% of mass 95	89.1
175	4.0% - 9.0% of mass 174	6.5 (7.3)
176	93.0% - 101.0% of mass 174	86.1 (96.7)
177	5.0% - 9.0% of mass 176	5.7 (6.6)

THIS CHECK APPLIES TO THE FOLLOWING:

LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD002	cj00325.d	10/16/2015	01:09
VSTD005	cj00326.d	10/16/2015	01:51
VSTD010	cj00327.d	10/16/2015	02:34
VSTD025	cj00328.d	10/16/2015	03:17
VSTD070	cj00329.d	10/16/2015	04:03
mdlv0.5	cj00335.d	10/16/2015	08:37
mdlv0.2	cj00336.d	10/16/2015	09:19
VSTD001	cj00337.d	10/16/2015	10:21
VBLKC06	cj00339.d	10/16/2015	12:23
LCSC06	cj00340.d	10/16/2015	13:09
LCSDC06	cj00341.d	10/16/2015	13:54



SDG No.:

Lab File ID: cj00320.d

BFB Injection Date: 10/15/2015

Instrument ID: 09464

BFB Injection Time: 21:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0% - 40.0% of mass 95	13.3
75	30.0% - 66.0% of mass 95	49.3
95	Base peak, 100% relative abundance	100.0
96	5.0% - 9.0% of mass 95	6.8
173	< 2.0% of mass 174	0.0 (0.0)
174	> 50.0% of mass 95	89.1
175	4.0% - 9.0% of mass 174	6.5 (7.3)
176	93.0% - 101.0% of mass 174	86.1 (96.7)
177	5.0% - 9.0% of mass 176	5.7 (6.6)

THIS CHECK APPLIES TO THE FOLLOWING:

LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD002	cj00325.d	10/16/2015	01:09
VSTD005	cj00326.d	10/16/2015	01:51
VSTD010	cj00327.d	10/16/2015	02:34
VSTD025	cj00328.d	10/16/2015	03:17
VSTD070	cj00329.d	10/16/2015	04:03
mdlv0.5	cj00335.d	10/16/2015	08:37
mdlv0.2	cj00336.d	10/16/2015	09:19
VSTD001	cj00337.d	10/16/2015	10:21
VBLKC06	cj00339.d	10/16/2015	12:23
LCSC06	cj00340.d	10/16/2015	13:09
LCSDC06	cj00341.d	10/16/2015	13:54



SDG No.:

Lab File ID: cj00350.d

BFB Injection Date: 10/16/2015

Instrument ID: 09464

BFB Injection Time: 14:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0% - 40.0% of mass 95	11.8
75	30.0% - 66.0% of mass 95	46.7
95	Base peak, 100% relative abundance	100.0
96	5.0% - 9.0% of mass 95	6.5
173	< 2.0% of mass 174	0.0 (0.0)
174	> 50.0% of mass 95	91.2
175	4.0% - 9.0% of mass 174	7.0 (7.6)
176	93.0% - 101.0% of mass 174	88.4 (96.9)
177	5.0% - 9.0% of mass 176	6.1 (6.9)

THIS CHECK APPLIES TO THE FOLLOWING:

LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD010	cj00351.d	10/16/2015	15:29
VBLKC07	cj00353.d	10/16/2015	17:03
8080655	cj00354.d	10/16/2015	17:53
8080656	cj00355.d	10/16/2015	18:37
8082701	cj00356.d	10/16/2015	19:20
8082701	cj00357.d	10/16/2015	20:13
8086674	cj00360.d	10/16/2015	23:12
8087710	cj00363.d	10/17/2015	01:33
8087711	cj00364.d	10/17/2015	02:21
8087713	cj00366.d	10/17/2015	03:56
8087714	cj00367.d	10/17/2015	04:43
8087715	cj00368.d	10/17/2015	05:30
8087716	cj00369.d	10/17/2015	06:17
8089423	cj00370.d	10/17/2015	07:01
8085446	cj00371.d	10/17/2015	07:44
8085447	cj00372.d	10/17/2015	08:31
8085448	cj00373.d	10/17/2015	09:18
8084057	cj00374.d	10/17/2015	10:02



SDG No.:

Lab File ID: cj00380.d

BFB Injection Date: 10/19/2015

Instrument ID: 09464

BFB Injection Time: 11:17

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0% - 40.0% of mass 95	12.3
75	30.0% - 66.0% of mass 95	47.5
95	Base peak, 100% relative abundance	100.0
96	5.0% - 9.0% of mass 95	6.4
173	< 2.0% of mass 174	0.0 (0.0)
174	> 50.0% of mass 95	103.5
175	4.0% - 9.0% of mass 174	7.8 (7.5)
176	93.0% - 101.0% of mass 174	100.3 (96.9)
177	5.0% - 9.0% of mass 176	6.4 (6.4)

THIS CHECK APPLIES TO THE FOLLOWING:

LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD010	cj00385.d	10/19/2015	15:16
VBLKC15	cj00386.d	10/19/2015	15:59
8084058	cj00387.d	10/19/2015	17:21
8086675	cj00388.d	10/19/2015	18:07
8087194	cj00389.d	10/19/2015	18:53
8087712	cj00390.d	10/19/2015	19:35
8087713DL	cj00391.d	10/19/2015	20:18
8087714DL	cj00392.d	10/19/2015	21:00
8089423DL	cj00393.d	10/19/2015	21:47
8079039DL2	cj00394.d	10/19/2015	22:33
8079040DL2	cj00395.d	10/19/2015	23:20
8079041DL2	cj00396.d	10/20/2015	00:07
8081439DL	cj00397.d	10/20/2015	00:50
8081440DL	cj00398.d	10/20/2015	01:33
8081442DL	cj00399.d	10/20/2015	02:16
8087194DL	cj00400.d	10/20/2015	03:00
cc1042	cj00401.d	10/20/2015	03:44
cc880	cj00402.d	10/20/2015	04:29



SDG No.:

Lab Sample ID: VSTD010

Analyzed Date: 10/16/2015

Lab File ID: cj00327.d

Analyzed Time: 02:34

Instrument ID: 09464

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	R.T.	Area	R.T.	Area	R.T.
24 HOUR STANDARD	758229	7.20	2563691	9.20	2306014	15.52
UPPER LIMIT	1061521	7.53	3589167	9.53	3228420	15.85
LOWER LIMIT	454937	6.87	1538215	8.87	1383608	15.19
LAB SAMPLE ID						
mdlv0.5	744063	7.22	2205333	9.21	1988373	15.53
mdlv0.2	633154	7.22	1834763	9.21	1529399	15.53
VBLKC06	608341	7.23	1761339	9.21	1753512	15.54
LCSC06	674186	7.21	2236255	9.20	2080241	15.52
LCSDC06	672950	7.21	2106045	9.20	1893441	15.52

* = Outside of the QC Limits.

AREA: Upper limit: +40% of the internal standard area.
Lower Limit: -40% of the internal standard area.
R.T.: Upper limit: +0.33 of the internal standard R.T.
Lower limit: -0.33 of the internal standard R.T.



SDG No.:

Lab Sample ID: VSTD010

Analyzed Date: 10/16/2015

Lab File ID: cj00351.d

Analyzed Time: 15:29

Instrument ID: 09464

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	R.T.	Area	R.T.	Area	R.T.
24 HOUR STANDARD	800124	7.20	2623343	9.19	2389136	15.52
UPPER LIMIT	1120174	7.53	3672680	9.52	3344790	15.85
LOWER LIMIT	480074	6.87	1574006	8.86	1433482	15.19
LAB SAMPLE ID						
VBLKC07	653208	7.22	2074918	9.21	1982784	15.53
8080655	576261	7.21	1613652	9.20	1754187	15.52
8080656	958332	7.21	3348441	9.20	2965442	15.52
8082701	1232136 *	7.20	4199648 *	9.20	3602280 *	15.52
8082701	1306764 *	7.20	3984650 *	9.20	3248337	15.52
8086674	773120	7.20	2286639	9.20	2297578	15.52
8087710	1004683	7.21	2997422	9.20	2574442	15.52
8087711	725697	7.22	1982929	9.20	1943039	15.52
8087713	787095	7.21	2492904	9.20	2080283	15.52
8087714	760839	7.21	2069655	9.20	1705114	15.52
8087715	747606	7.21	2409308	9.20	1766076	15.52
8087716	762341	7.21	2224884	9.20	1993347	15.52
8089423	686530	7.21	2000594	9.20	1908047	15.53
8085446	795794	7.21	2330301	9.20	2144828	15.53
8085447	769497	7.21	2418321	9.20	2306205	15.53
8085448	648291	7.20	2543908	9.20	2435939	15.52
8084057	821033	7.21	2437089	9.21	2183830	15.53

* = Outside of the QC Limits.

AREA: Upper limit: +40% of the internal standard area.
Lower Limit: -40% of the internal standard area.
R.T.: Upper limit: +0.33 of the internal standard R.T.
Lower limit: -0.33 of the internal standard R.T.



SDG No.:

Lab Sample ID: VSTD010

Analyzed Date: 10/19/2015

Lab File ID: cj00385.d

Analyzed Time: 15:16

Instrument ID: 09464

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	R.T.	Area	R.T.	Area	R.T.
24 HOUR STANDARD	612057	7.21	1919381	9.20	1703163	15.52
UPPER LIMIT	856880	7.54	2687133	9.53	2384428	15.85
LOWER LIMIT	367234	6.88	1151629	8.87	1021898	15.19
LAB SAMPLE ID						
VBLKC15	638502	7.21	1684047	9.21	1459692	15.52
8084058	555119	7.21	1606359	9.20	1524330	15.53
8086675	602120	7.21	2141154	9.20	2263357	15.52
8087194	749523	7.21	2056844	9.20	1910455	15.52
8087712	640354	7.21	1857405	9.21	1678349	15.53
8087713DL	596360	7.21	1700506	9.20	1706233	15.53
8087714DL	547638	7.21	1679722	9.20	1692963	15.52
8089423DL	488336	7.21	1457141	9.20	1519121	15.52
8079039DL2	573339	7.20	1613857	9.20	1549997	15.52
8079040DL2	585334	7.21	1890829	9.20	1923284	15.52
8079041DL2	565993	7.21	1790379	9.20	1748710	15.52
8081439DL	535174	7.21	1438930	9.20	1317278	15.53
8081440DL	579386	7.21	1757457	9.21	1712659	15.53
8081442DL	562776	7.21	1605574	9.20	1646983	15.52
8087194DL	549060	7.21	1690052	9.21	1744992	15.53
cc1042	527722	7.22	1480759	9.21	1515633	15.53
cc880	532312	7.21	1660547	9.21	1663176	15.53

* = Outside of the QC Limits.

AREA: Upper limit: +40% of the internal standard area.
Lower Limit: -40% of the internal standard area.
R.T.: Upper limit: +0.33 of the internal standard R.T.
Lower limit: -0.33 of the internal standard R.T.

Sample Data

Volatile Organics in Air by GC/MS

1019-

Lancaster Laboratories, Inc.
 Analysis Summary for GC/MS Volatiles in Air 8087710

Data file: /chem/HP09464.i/15oct16.b/cj00363.d Injection date and time: 17-OCT-2015 01:33
 Data file Sample Info. Line: 8087710;500;C1528830AB;1019-;0;0;SAMPLE; Instrument ID: HP09464.i Batch: C1528830AB
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

Blank Data file reference: /chem/HP09464.i/15oct16.b/cj00353.d

Method used: /chem/HP09464.i/15oct16.b/to-15.m Sublist used: 292
 Calibration date and time (Last Method Edit): 16-OCT-2015 16:10
 Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15oct16.b/cj00351.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
 Canister Pressure after dilution (Xa): 27.4 psia Canister Pressure before dilution (Ya): 13.7 psia
 Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 500 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.207(-0.006)	1007	130	1004683 (26)	10.00		480075 - 1120173
51) 1,4-Difluorobenzene	9.196(-0.006)	1334	114	2997422 (14)	10.00		1574006 - 3672680
71) Chlorobenzene-d5	15.523(-0.006)	2374	117	2574442 (8)	10.00		1433482 - 3344790

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Dichlorodifluoromethane	(1)	1.896(-0.001)	85	87199	0.295	0.29		J	0.2	1
3) Chlorodifluoromethane	(1)	1.908(-0.001)	51	51746	0.548	0.55		J	0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)			Not Detected					0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)			Not Detected					0.2	1
13) Pentane	(1)			Not Detected					0.2	1
17) 1,1-Dichloroethene	(1)			Not Detected					0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)	3.794(-0.002)	43	129413	3.132	3.13			0.5	2
21) Carbon Disulfide	(1)			Not Detected					0.5	1
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)			Not Detected					0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)			Not Detected					0.2	1
37) 2-Butanone	(1)	6.897(-0.003)	72	10188	0.508	0.51		J	0.5	2
42) Chloroform	(1)	7.408(0.000)	83	96823	0.508	0.51		J	0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
45) Carbon Tetrachloride	(1)			Not Detected					0.2	1
46) Benzene	(2)			Not Detected					0.2	1
47) 1,2-Dichloroethane	(2)			Not Detected					0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
50) Heptane	(2)			Not Detected					0.2	1
52) Trichloroethene	(2)	9.665(-0.000)	130	811924	6.464	6.46			0.2	1
54) 1,2-Dichloropropane	(2)	10.078(-0.000)	63	55057	1.082	1.08			0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
58) Bromodichloromethane	(2)			Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)			Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)			Not Detected					0.5	2
61) Toluene	(3)	12.354(-0.000)	91	57433	0.286	0.29		J	0.2	1
62) Octane	(3)			Not Detected					0.2	1
63) trans-1,3-Dichloropropene	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)			Not Detected					0.2	1
67) Tetrachloroethene	(3)	13.564(0.000)	166	91895	0.537	0.54		J	0.2	1
68) 2-Hexanone	(3)			Not Detected					0.5	2
69) Dibromochloromethane	(3)			Not Detected					0.2	1

1019-

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air 8087710

Data file: /chem/HP09464.i/15oct16.b/cj00363.d Injection date and time: 17-OCT-2015 01:33
Data file Sample Info. Line: 8087710;500;C1528830AB;1019-;0;0;SAMPLE; Instrument ID: HP09464.i Batch: C1528830AB
Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

Blank Data file reference: /chem/HP09464.i/15oct16.b/cj00353.d

Method used: /chem/HP09464.i/15oct16.b/to-15.m Sublist used: 292
Calibration date and time (Last Method Edit): 16-OCT-2015 16:10
Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15oct16.b/cj00351.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

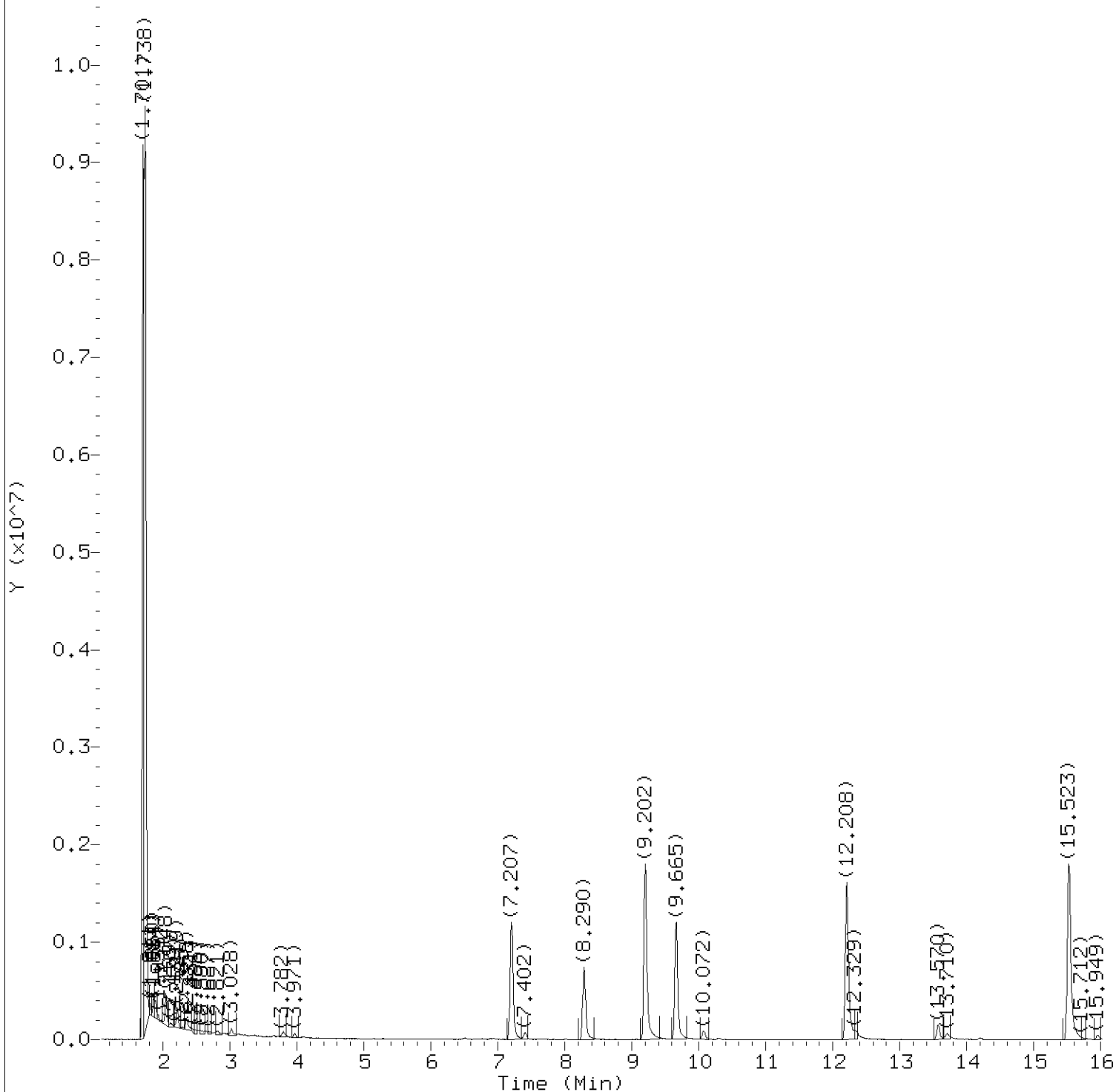
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 27.4 psia Canister Pressure before dilution (Ya): 13.7 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 500 cc

Table with columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit, LOQ (in sample). Lists various compounds like 70) 1,2-Dibromoethane, 72) Chlorobenzene, etc.

Total number of targets = 62

Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:41. Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Michele J. Smith on 10/30/2015 at 15:42. Parallax ID: mjs00758



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00363.d
Injection date and time: 17-OCT-2015 01:33

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
Calibration date and time: 16-OCT-2015 16:10

Sublist used: 292

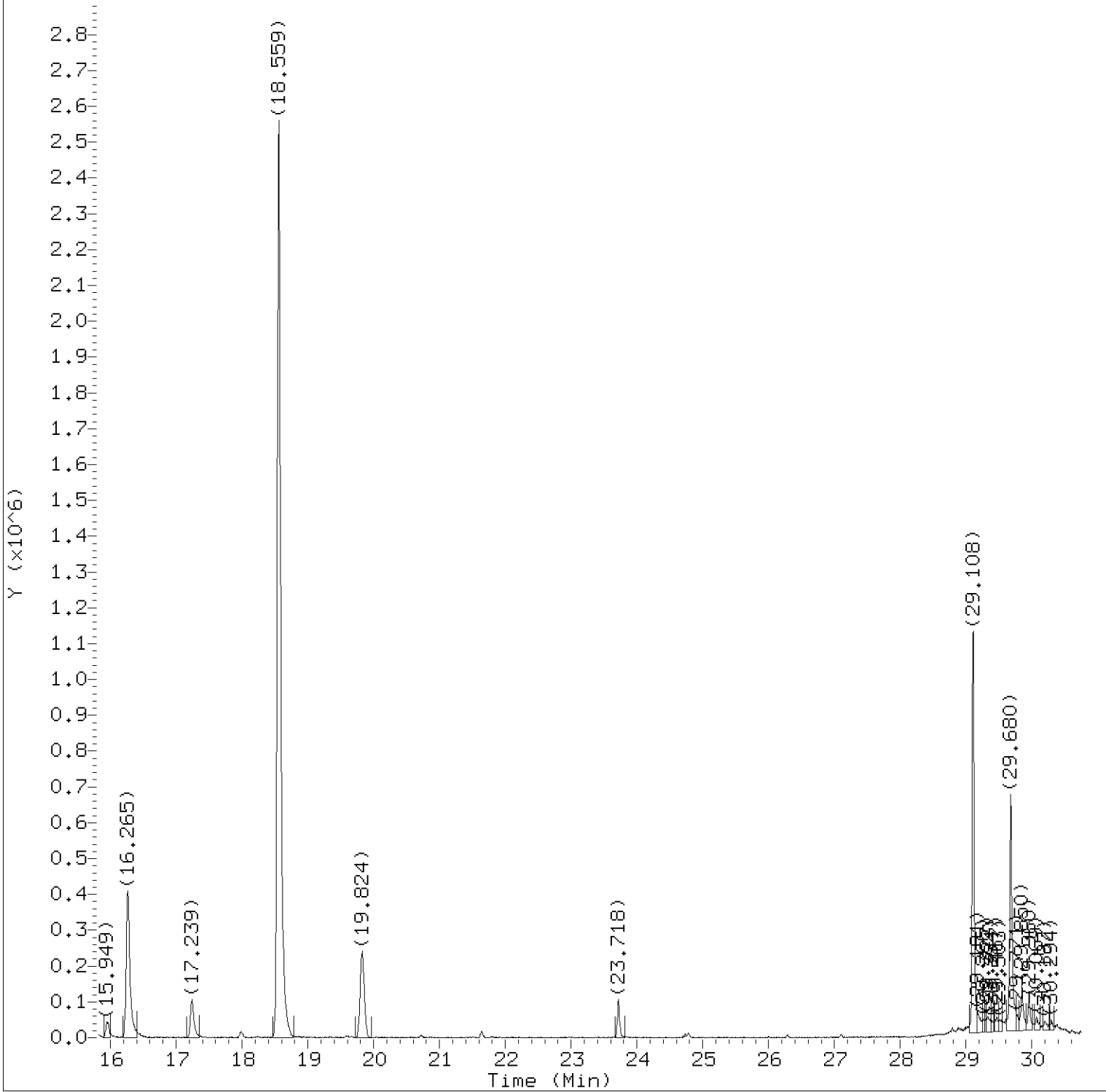
Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

Sample Name: 1019-

Lab Sample ID: 8087710

Digitally signed by Jeffrey B. Smith
on 10/29/2015 at 11:41.

Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00363.d
Injection date and time: 17-OCT-2015 01:33

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
Calibration date and time: 16-OCT-2015 16:10

Sublist used: 292

Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

Sample Name: 1019-

Lab Sample ID: 8087710

Digitally signed by Jeffrey B. Smith
on 10/29/2015 at 11:41.

Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00363.d
 Injection date and time: 17-OCT-2015 01:33

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 16-OCT-2015 16:10

Sublist used: 292

Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

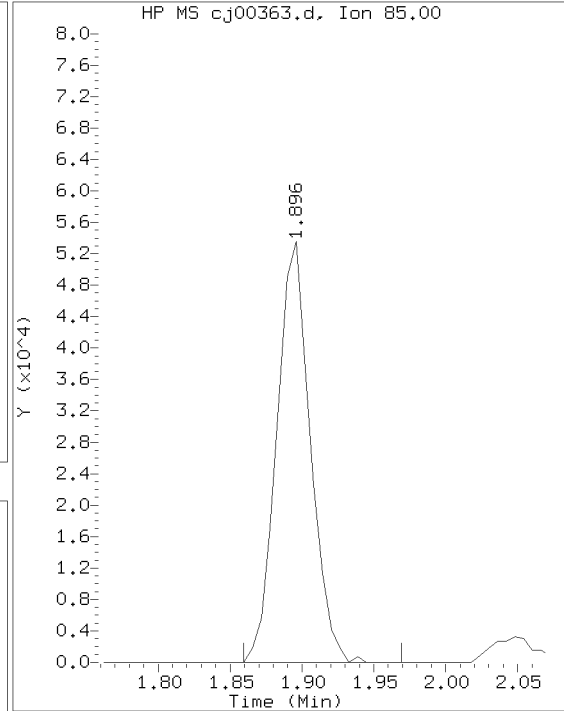
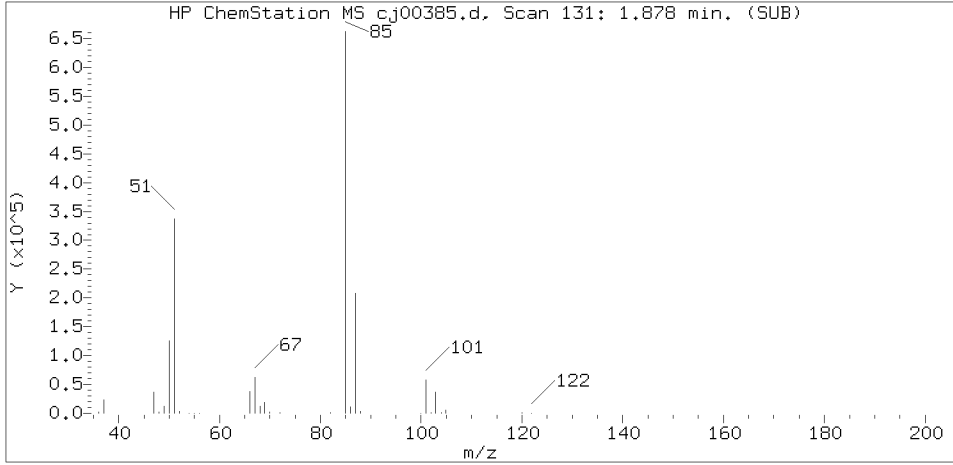
Sample Name: 1019-

Lab Sample ID: 8087710

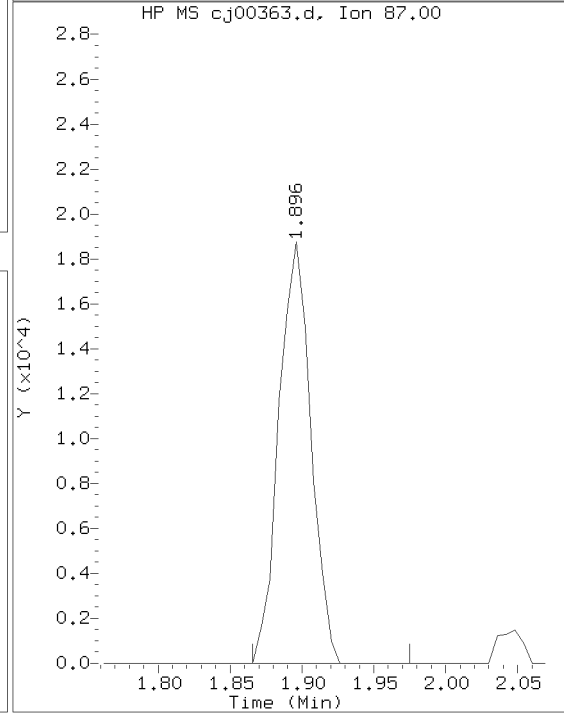
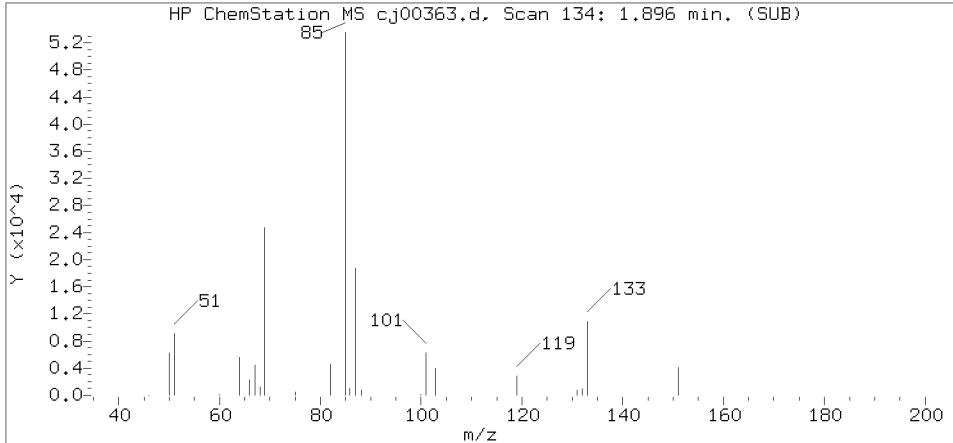
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
2) Dichlorodifluoromethane	(1)	1.896	85	87199	0.295
3) Chlorodifluoromethane	(1)	1.908	51	51746	0.548
19) Acetone	(1)	3.794	43	129413	3.132
37) 2-Butanone	(1)	6.897	72	10188	0.508
40)*Bromochloromethane	(1)	7.207	130	1004683	10.000
42) Chloroform	(1)	7.408	83	96823	0.508
51)*1,4-Difluorobenzene	(2)	9.196	114	2997422	10.000
52) Trichloroethene	(2)	9.665	130	811924	6.464
54) 1,2-Dichloropropane	(2)	10.078	63	55057	1.082
61) Toluene	(3)	12.354	91	57433	0.286
67) Tetrachloroethene	(3)	13.564	166	91895	0.537
71)*Chlorobenzene-d5	(3)	15.523	117	2574442	10.000
74) Ethylbenzene	(3)	15.949	91	82163	0.370
75) m/p-Xylene	(3)	16.265	91	614871	3.348
76) o-Xylene	(3)	17.239	91	166800	0.863

* = Compound is an internal standard.

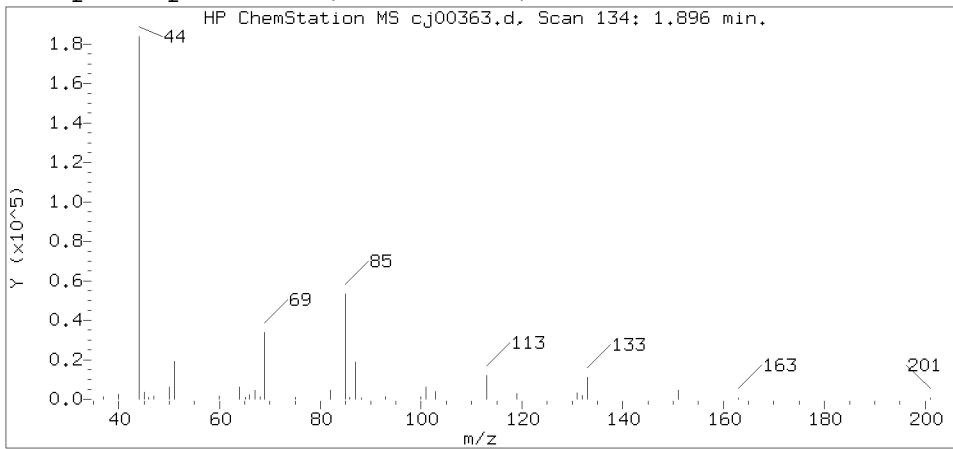
Reference Standard Spectrum for Dichlorodifluoromethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00363.d
 Injection date and time: 17-OCT-2015 01:33

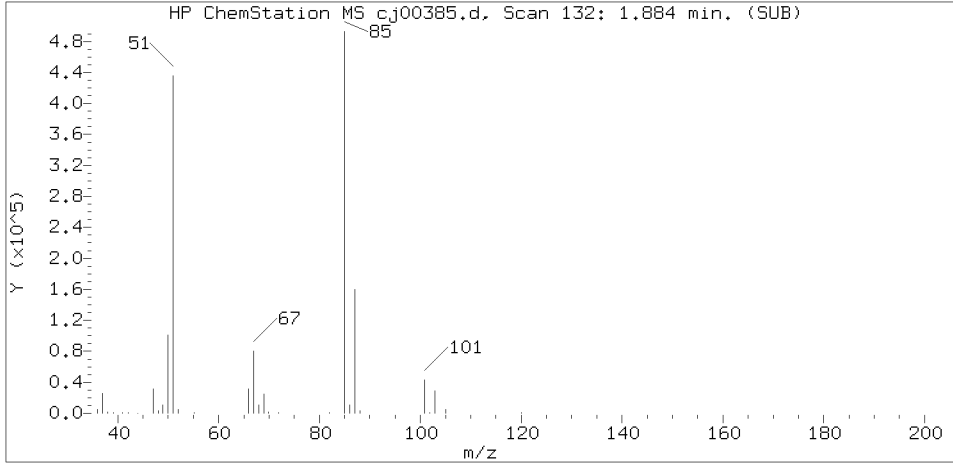
Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 16-OCT-2015 16:10
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

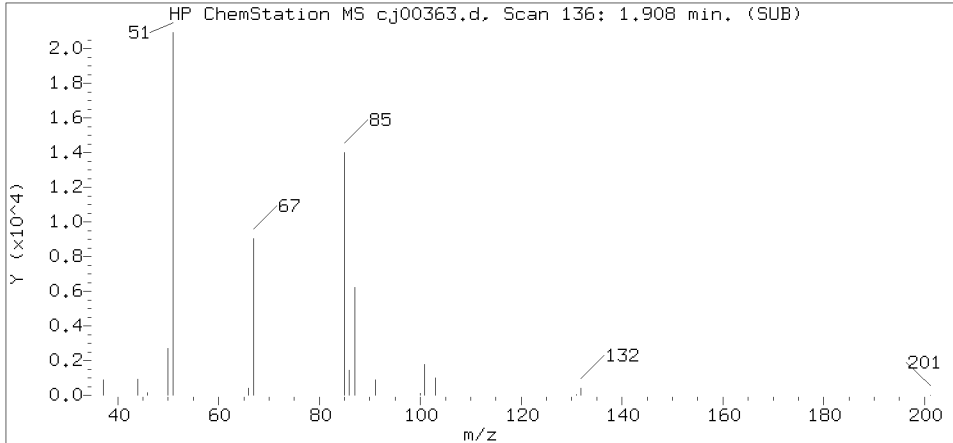
Sample Name: 1019- Lab Sample ID: 8087710

Compound Number : 2
 Compound Name : Dichlorodifluoromethane
 Scan Number : 134
 Retention Time (minutes): 1.896
 Relative Retention Time : -0.00147
 Quant Ion : 85.00
 Area (flag) : 87199
 Concentration (ppb(v)) : 0.2949

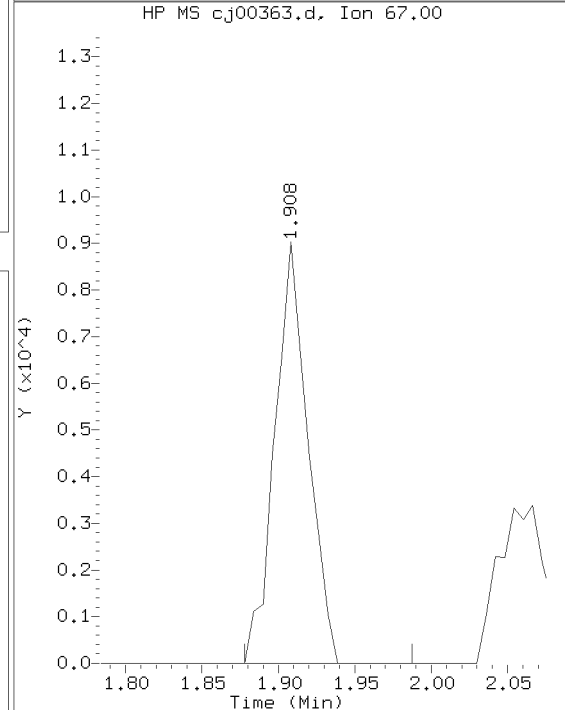
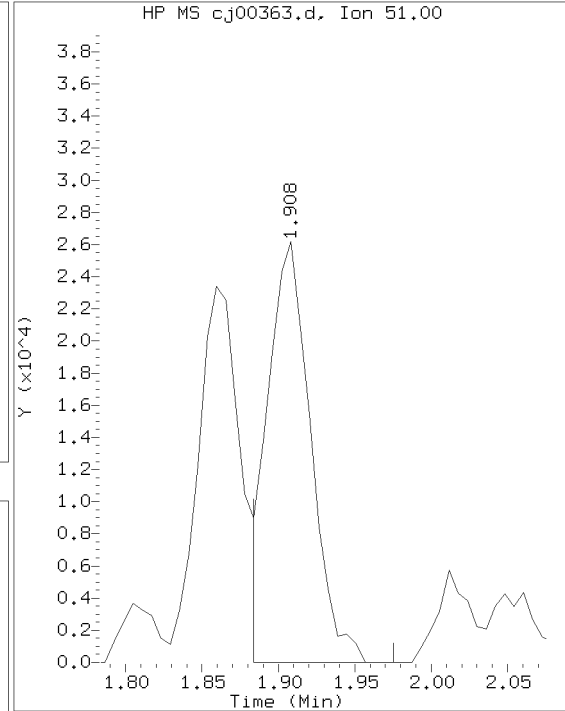
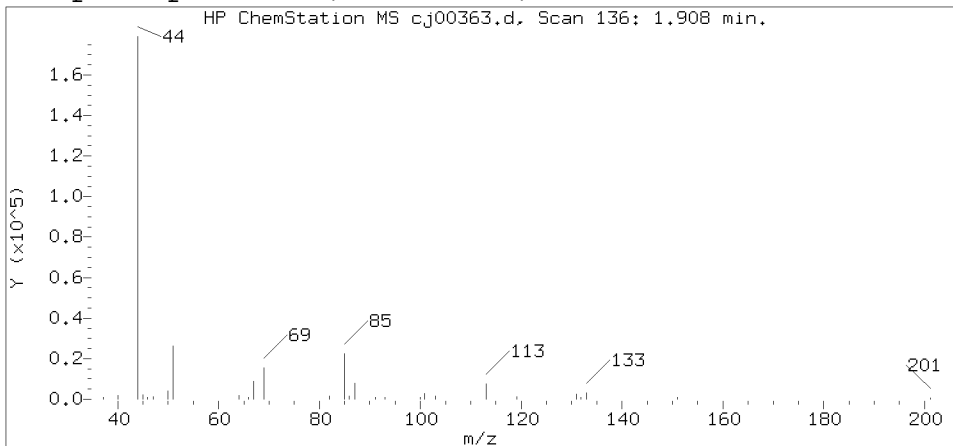
Reference Standard Spectrum for Chlorodifluoromethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00363.d
 Injection date and time: 17-OCT-2015 01:33

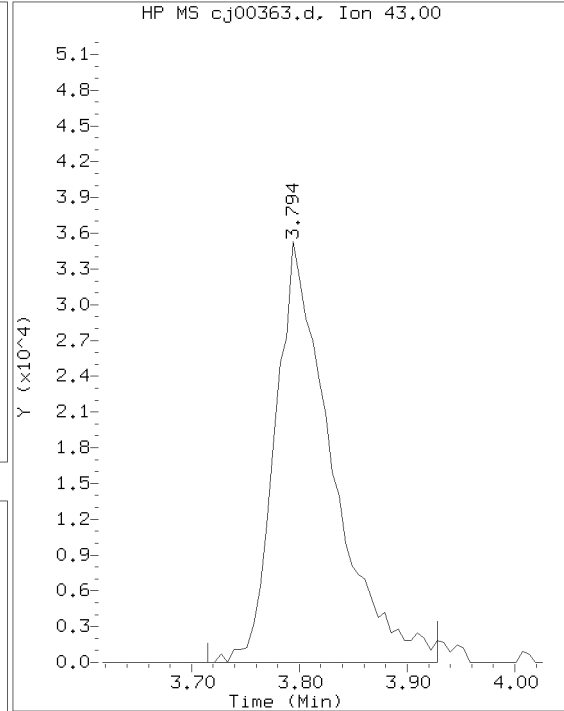
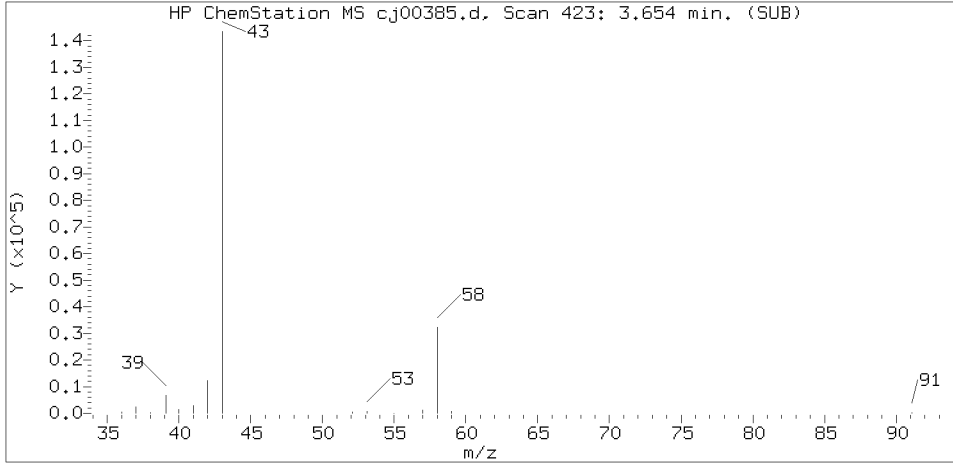
Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 16-OCT-2015 16:10
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

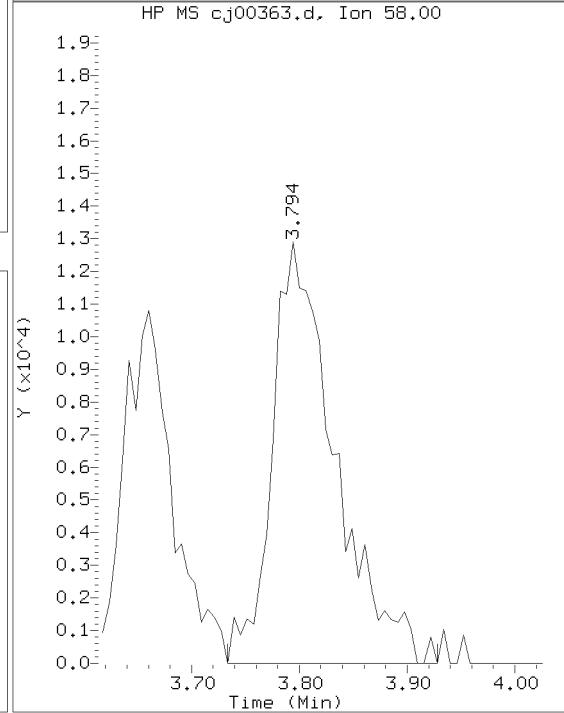
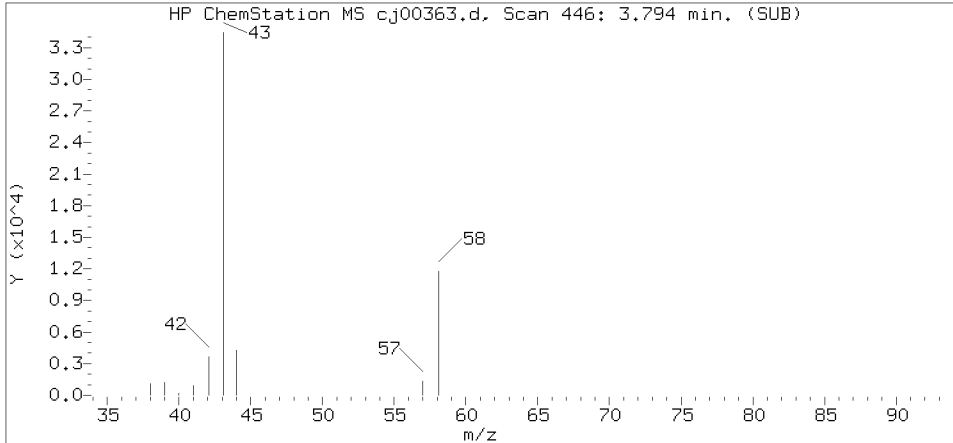
Sample Name: 1019- Lab Sample ID: 8087710

Compound Number : 3
 Compound Name : Chlorodifluoromethane
 Scan Number : 136
 Retention Time (minutes): 1.908
 Relative Retention Time : -0.00147
 Quant Ion : 51.00
 Area (flag) : 51746
 Concentration (ppb(v)) : 0.5477

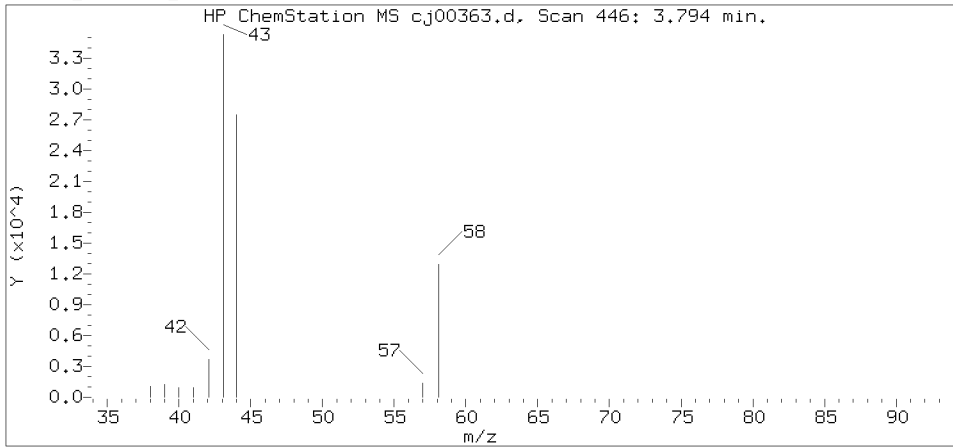
Reference Standard Spectrum for Acetone



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00363.d
 Injection date and time: 17-OCT-2015 01:33

Instrument ID: HP09464.i
 Analyst ID: jeb07445

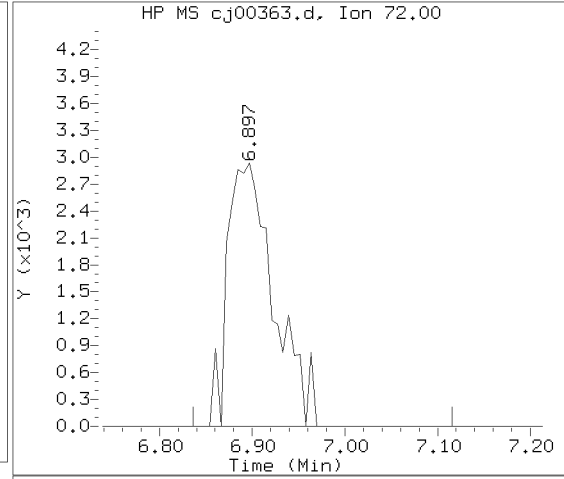
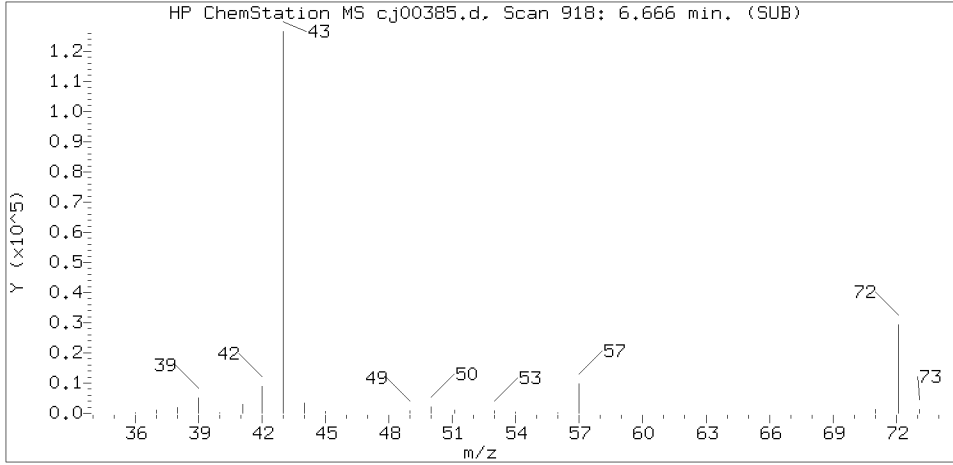
Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 16-OCT-2015 16:10
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

Sample Name: 1019-

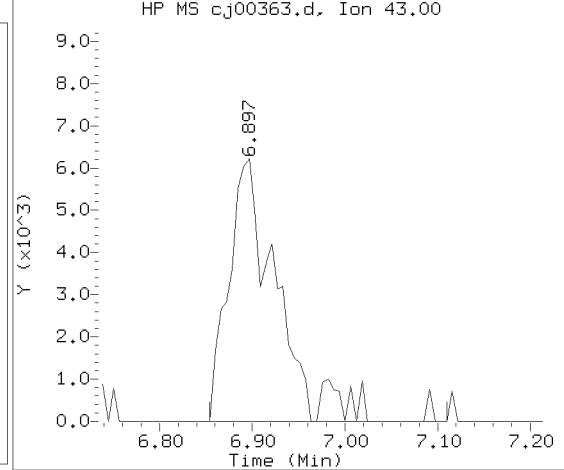
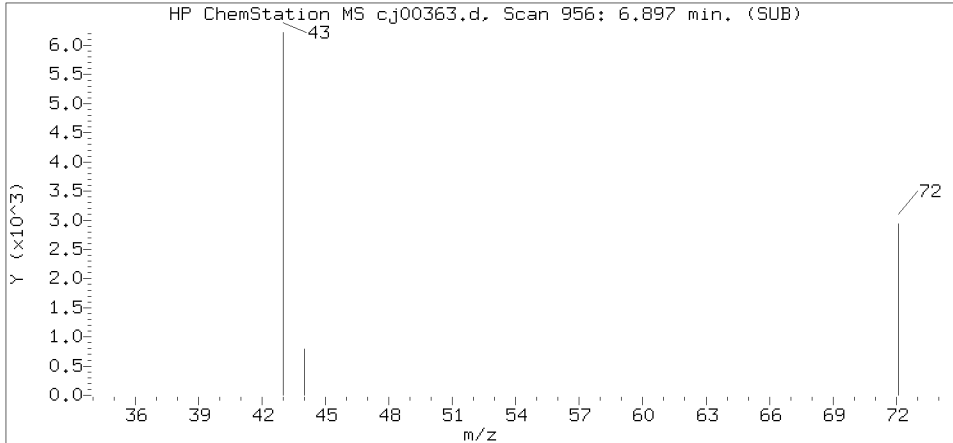
Lab Sample ID: 8087710

Compound Number : 19
 Compound Name : Acetone
 Scan Number : 446
 Retention Time (minutes): 3.794
 Relative Retention Time : -0.00209
 Quant Ion : 43.00
 Area (flag) : 129413
 Concentration (ppb(v)) : 3.1321

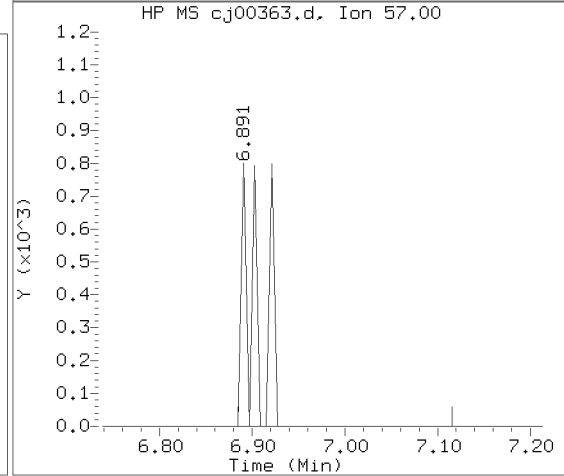
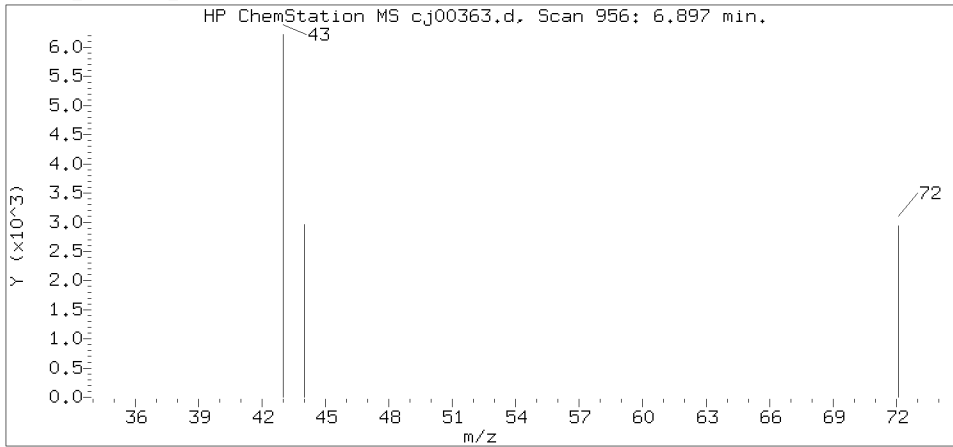
Reference Standard Spectrum for 2-Butanone



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00363.d
 Injection date and time: 17-OCT-2015 01:33

Instrument ID: HP09464.i
 Analyst ID: jeb07445

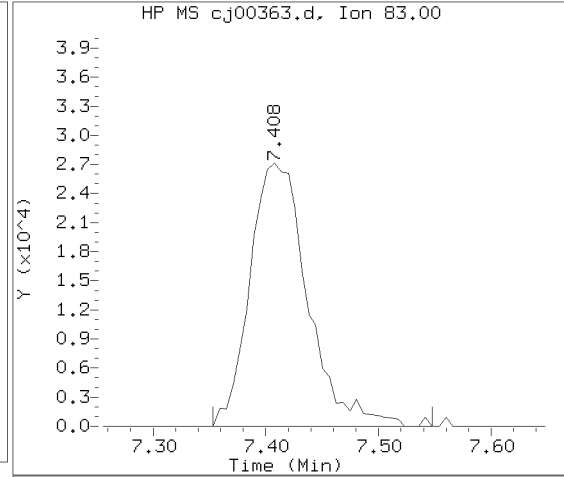
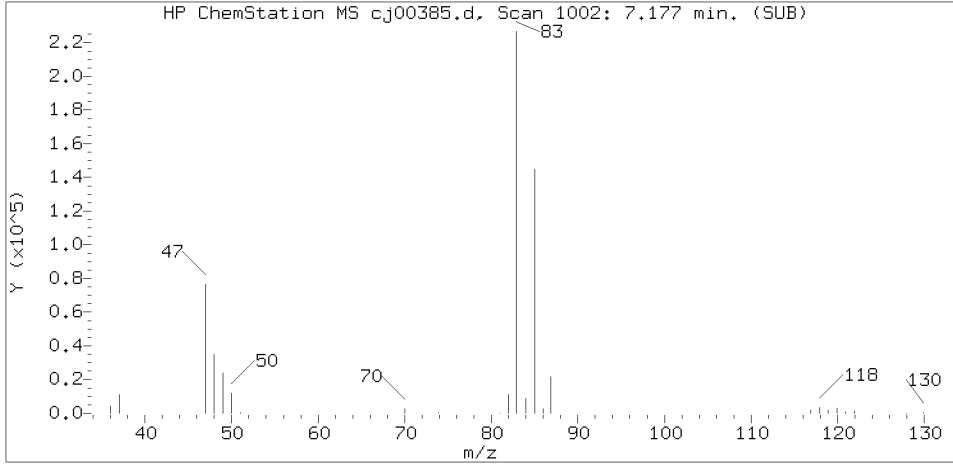
Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 16-OCT-2015 16:10
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

Sample Name: 1019-

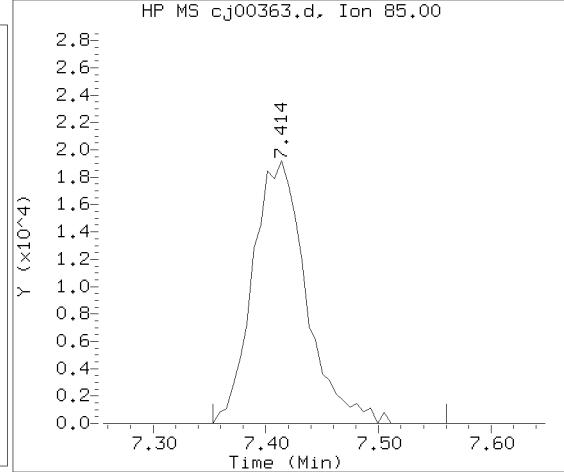
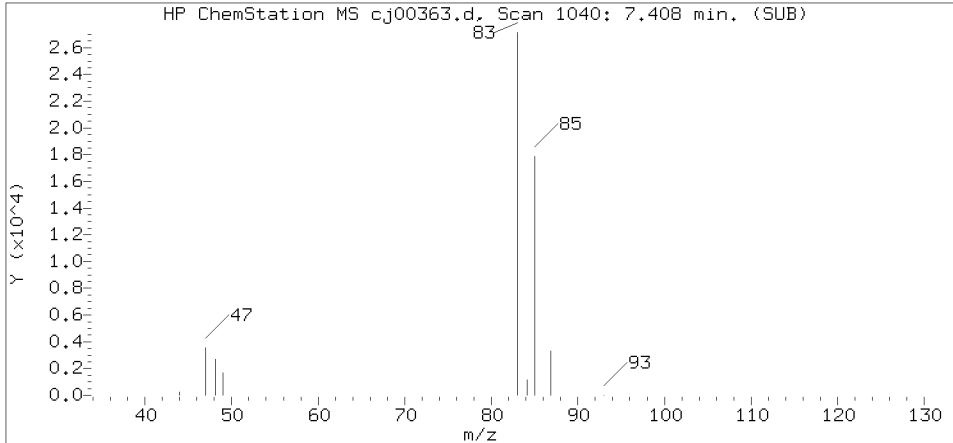
Lab Sample ID: 8087710

Compound Number : 37
 Compound Name : 2-Butanone
 Scan Number : 956
 Retention Time (minutes): 6.897
 Relative Retention Time : -0.00342
 Quant Ion : 72.00
 Area (flag) : 10188
 Concentration (ppb(v)) : 0.5076

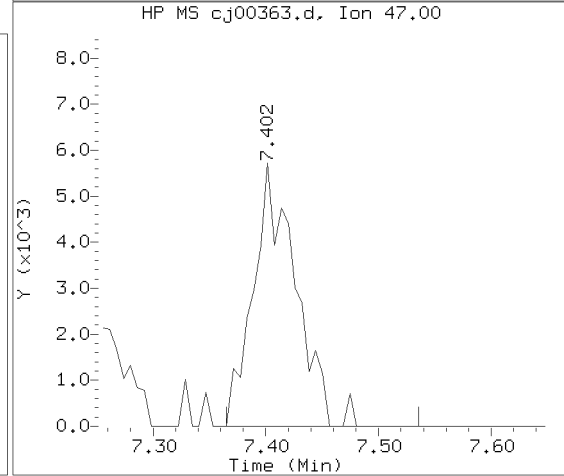
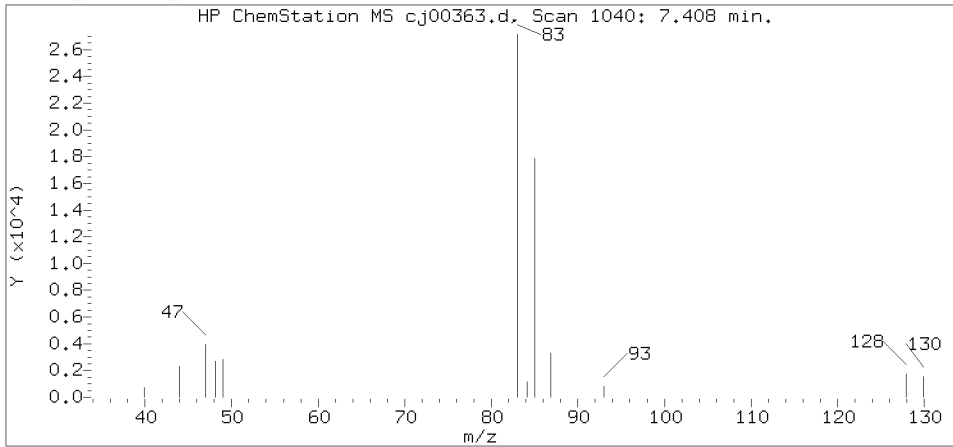
Reference Standard Spectrum for Chloroform



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00363.d
 Injection date and time: 17-OCT-2015 01:33

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 16-OCT-2015 16:10
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

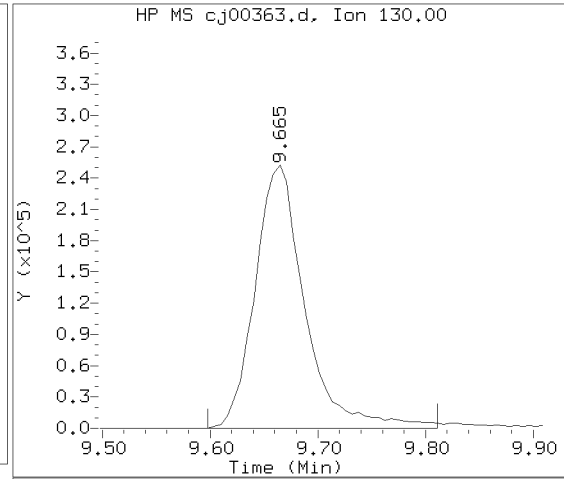
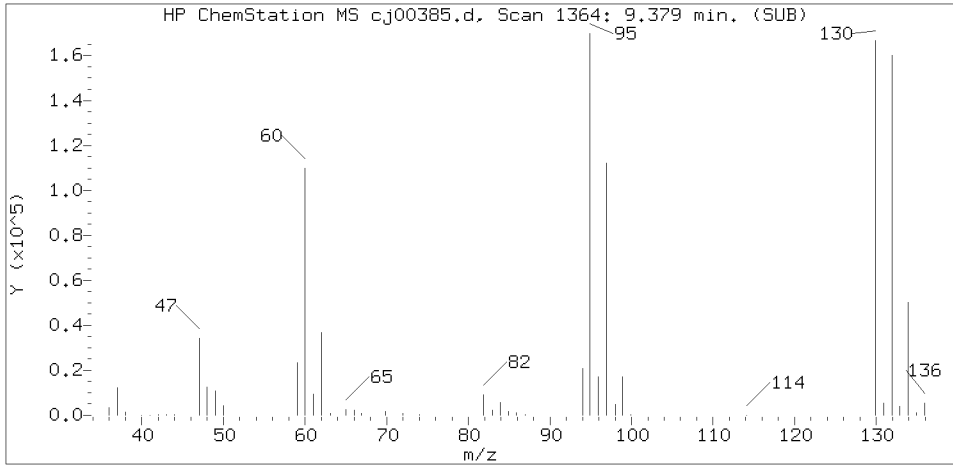
Sample Name: 1019-

Lab Sample ID: 8087710

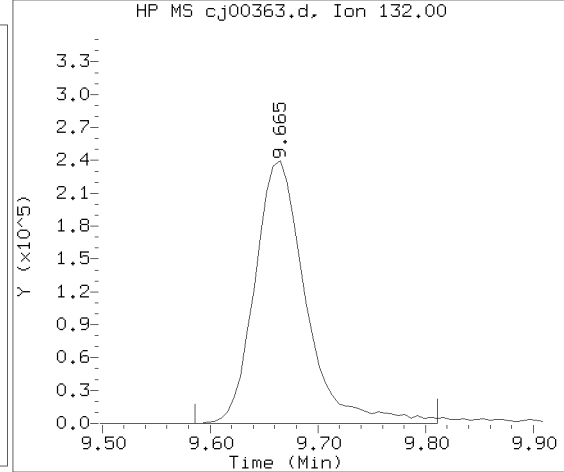
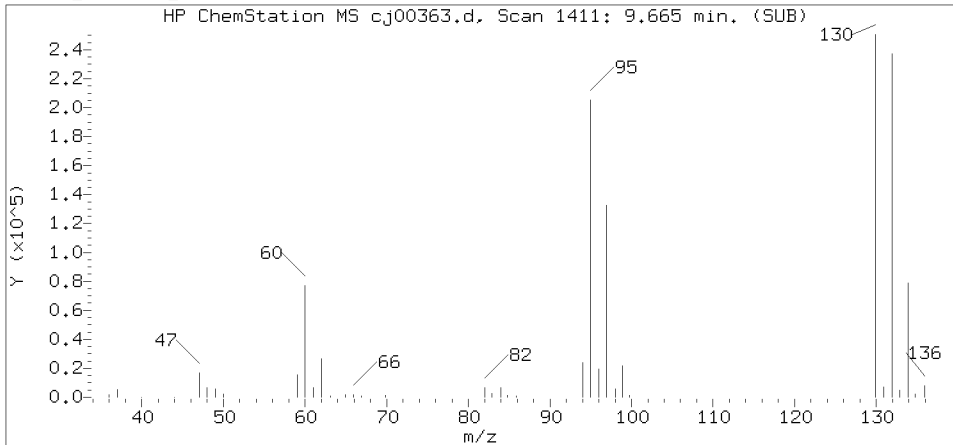
Compound Number : 42
 Compound Name : Chloroform
 Scan Number : 1040
 Retention Time (minutes): 7.408
 Relative Retention Time : 0.00002
 Quant Ion : 83.00
 Area (flag) : 96823
 Concentration (ppb(v)) : 0.5085

Sublist used: 292

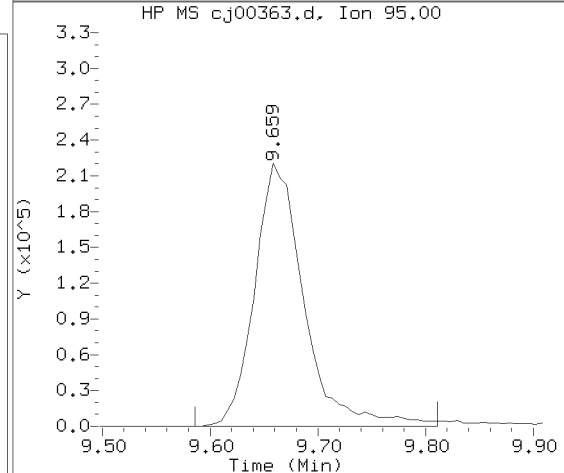
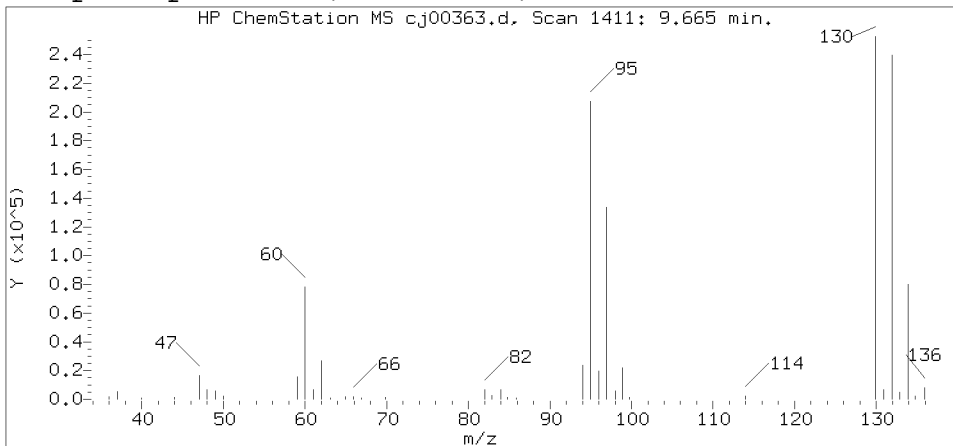
Reference Standard Spectrum for Trichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00363.d
 Injection date and time: 17-OCT-2015 01:33

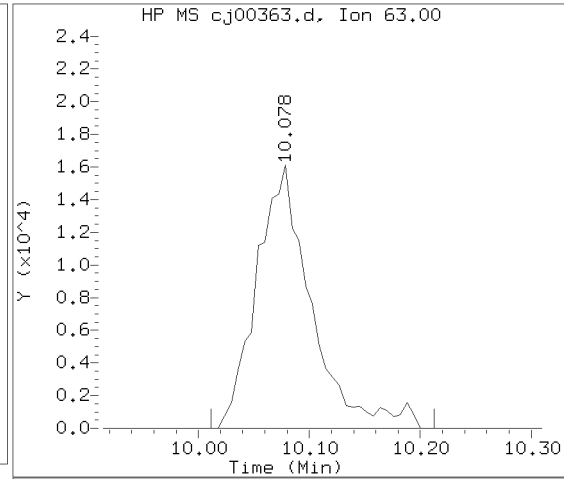
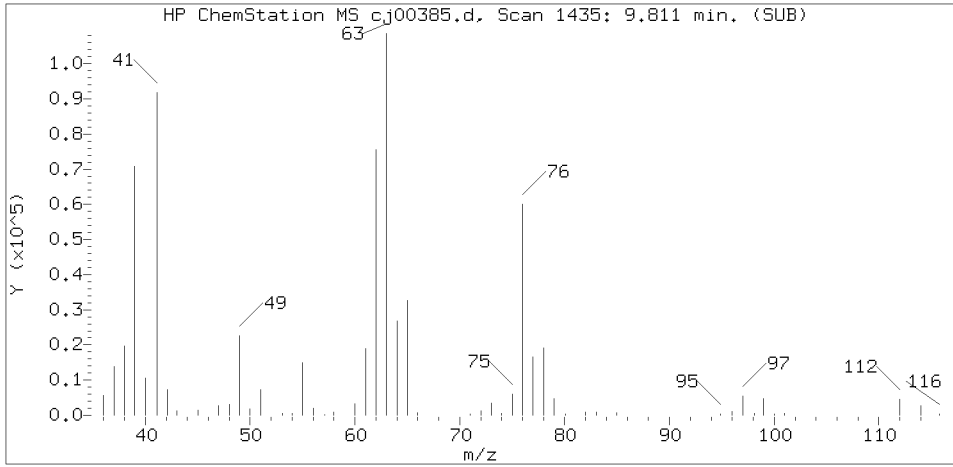
Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 16-OCT-2015 16:10
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

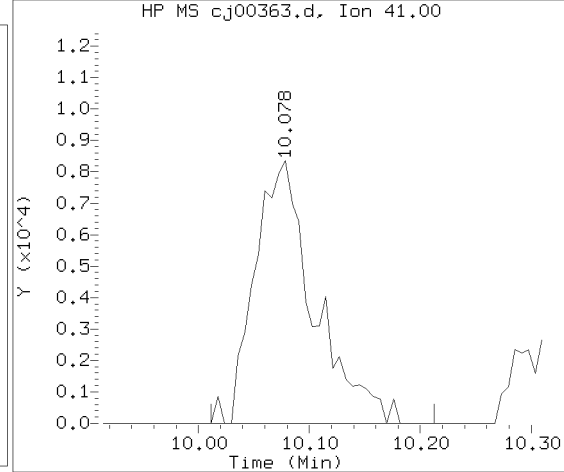
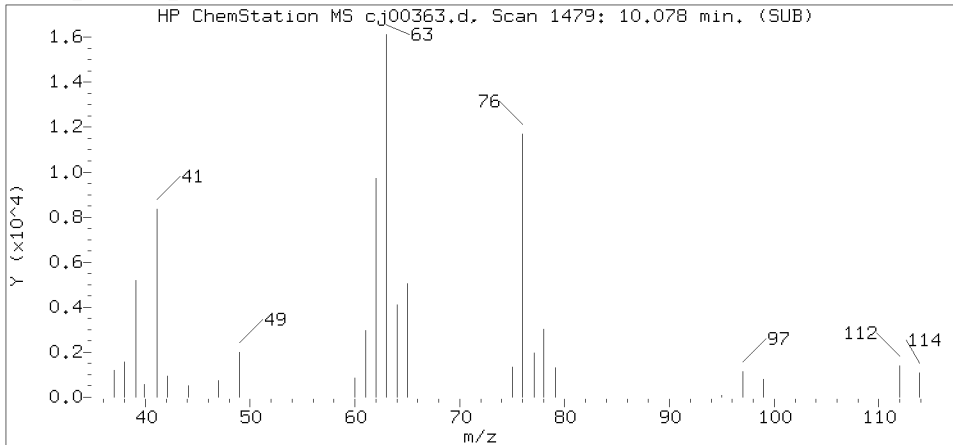
Sample Name: 1019- Lab Sample ID: 8087710

Compound Number : 52
 Compound Name : Trichloroethene
 Scan Number : 1411
 Retention Time (minutes): 9.665
 Relative Retention Time : -0.00063
 Quant Ion : 130.00
 Area (flag) : 811924
 Concentration (ppb(v)) : 6.4645

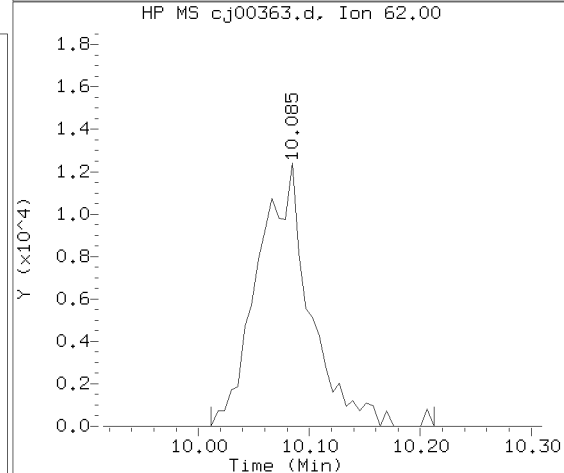
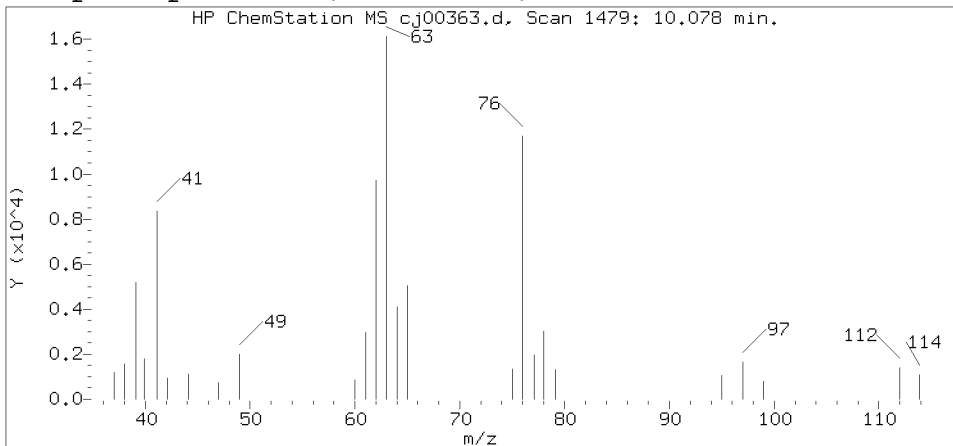
Reference Standard Spectrum for 1,2-Dichloropropane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00363.d
 Injection date and time: 17-OCT-2015 01:33

Instrument ID: HP09464.i
 Analyst ID: jeb07445

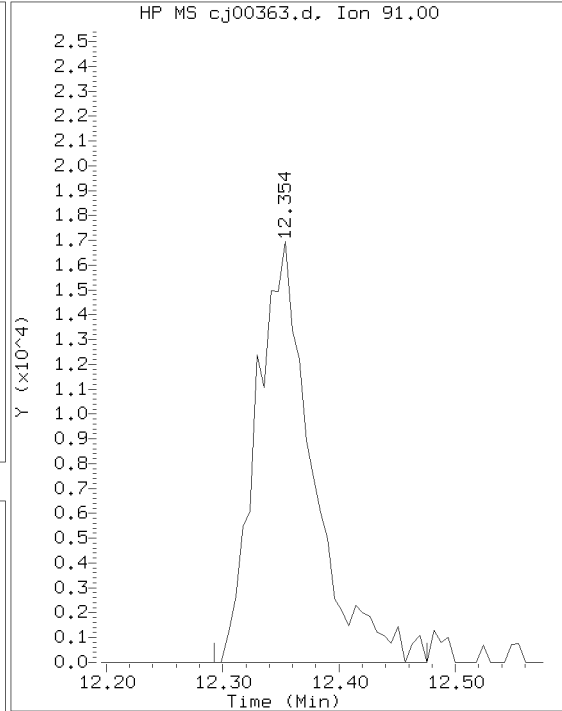
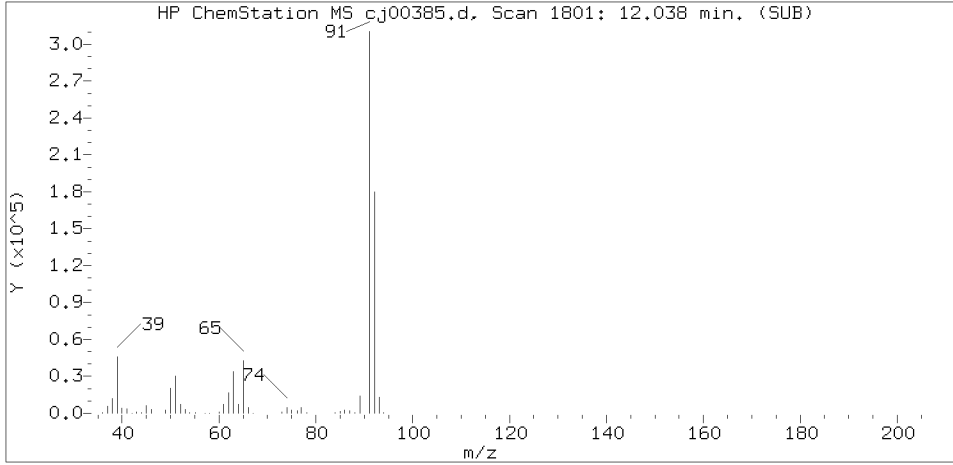
Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 16-OCT-2015 16:10
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

Sample Name: 1019-

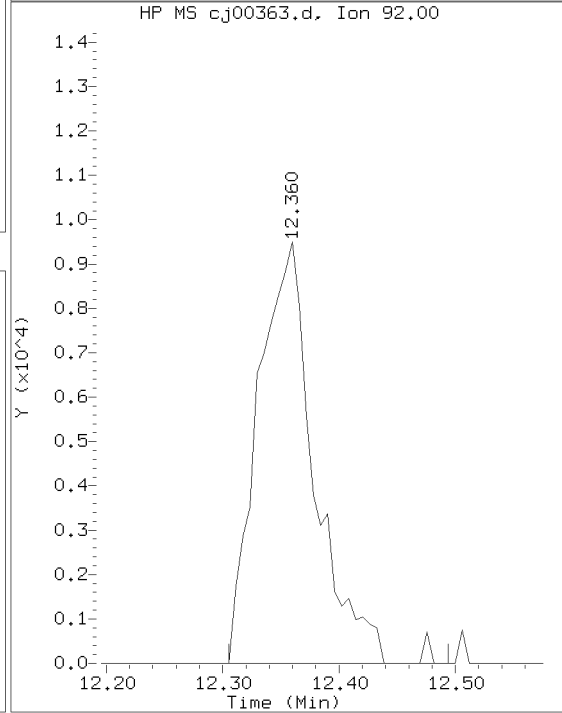
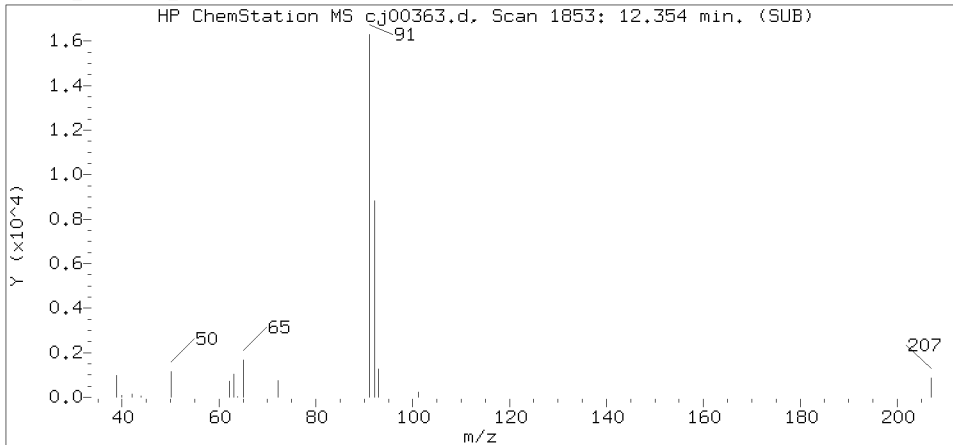
Lab Sample ID: 8087710

Compound Number : 54
 Compound Name : 1,2-Dichloropropane
 Scan Number : 1479
 Retention Time (minutes): 10.078
 Relative Retention Time : -0.00060
 Quant Ion : 63.00
 Area (flag) : 55057
 Concentration (ppb(v)) : 1.0822

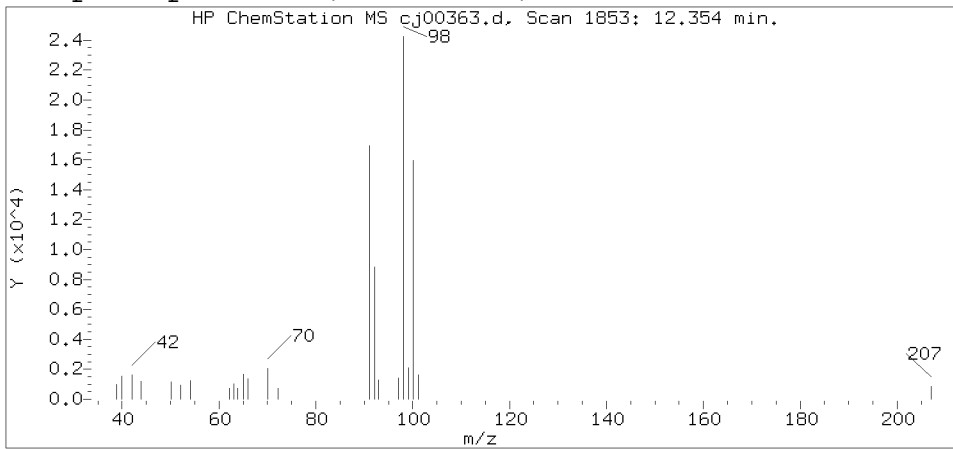
Reference Standard Spectrum for Toluene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00363.d
 Injection date and time: 17-OCT-2015 01:33

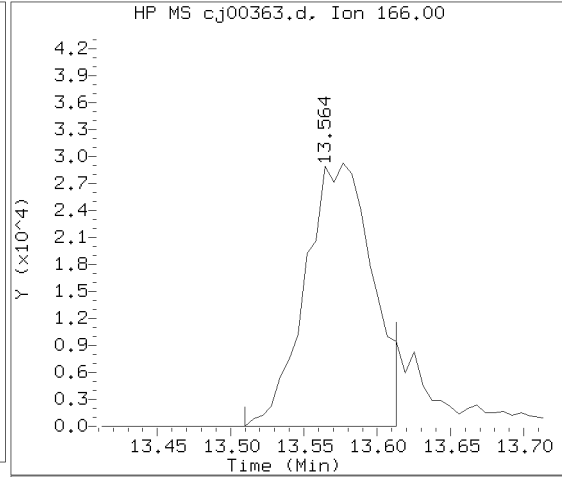
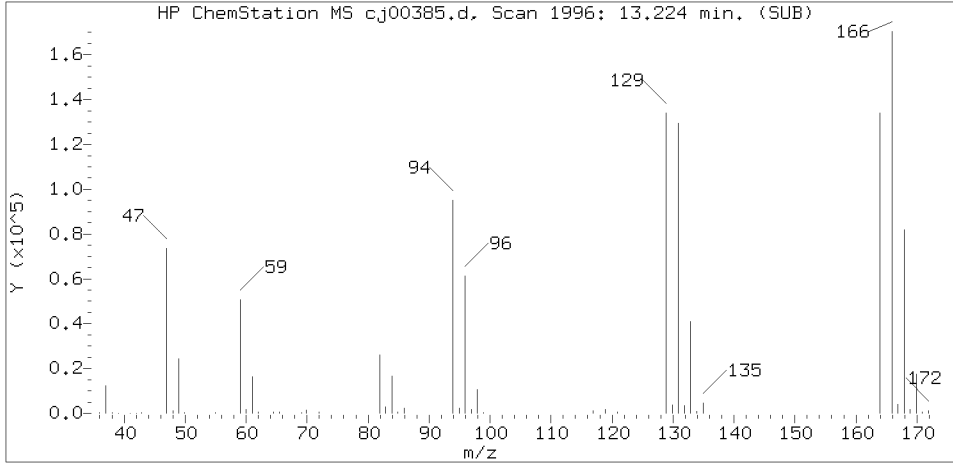
Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 16-OCT-2015 16:10
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

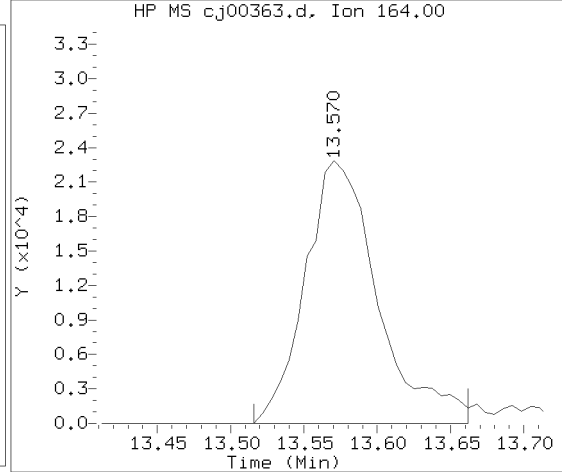
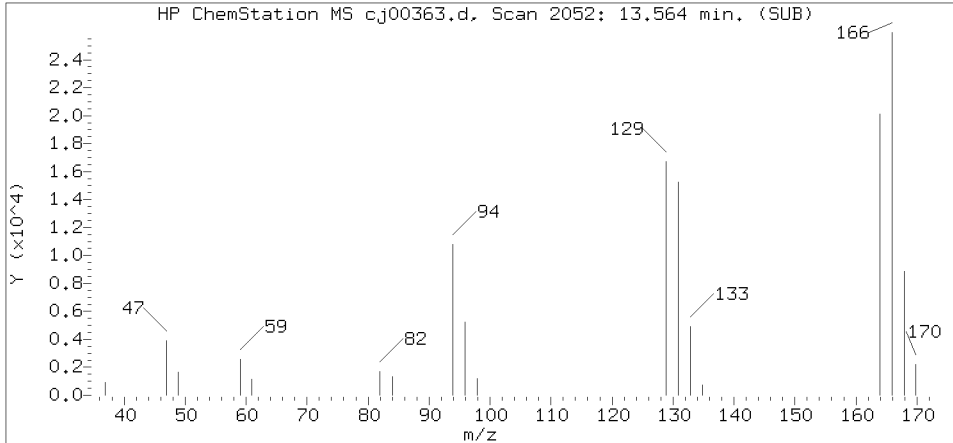
Sample Name: 1019- Lab Sample ID: 8087710

Compound Number : 61
 Compound Name : Toluene
 Scan Number : 1853
 Retention Time (minutes): 12.354
 Relative Retention Time : -0.00047
 Quant Ion : 91.00
 Area (flag) : 57433
 Concentration (ppb(v)) : 0.2857

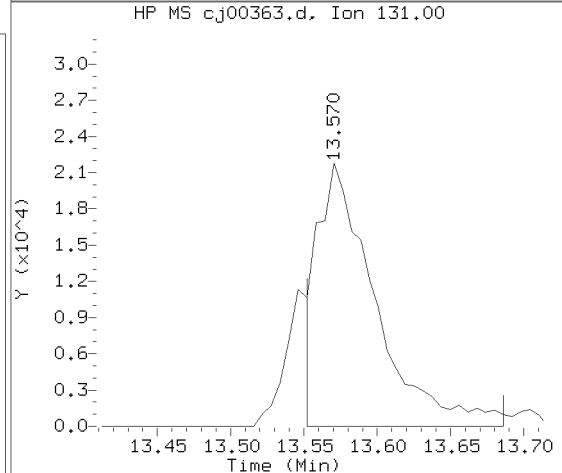
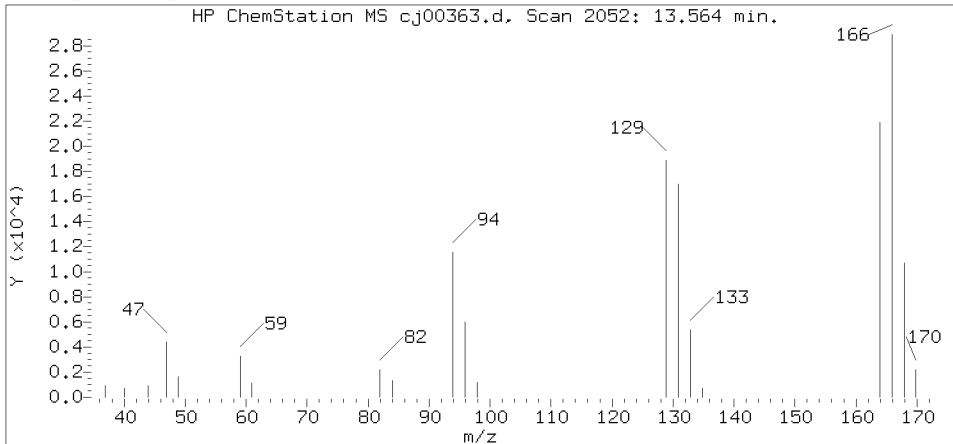
Reference Standard Spectrum for Tetrachloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00363.d
 Injection date and time: 17-OCT-2015 01:33

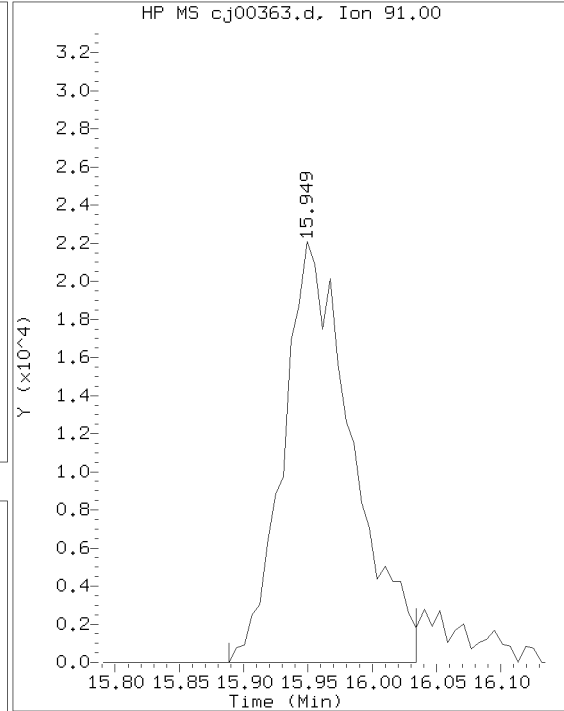
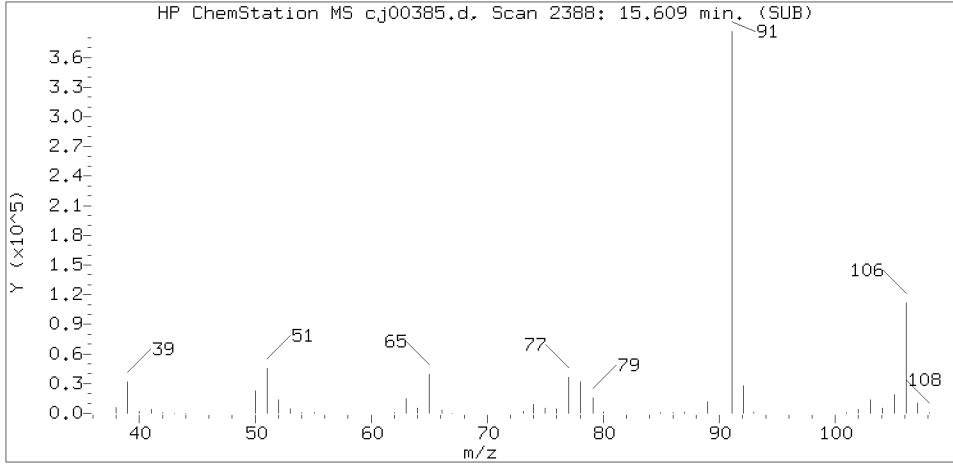
Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 16-OCT-2015 16:10
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

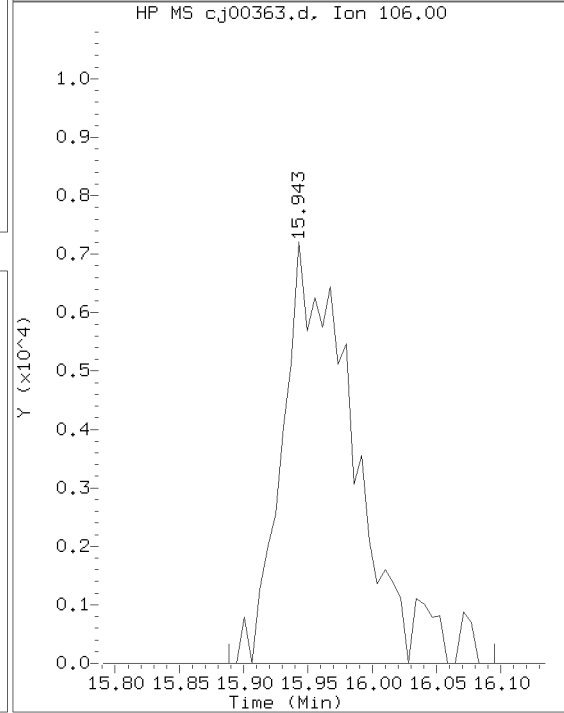
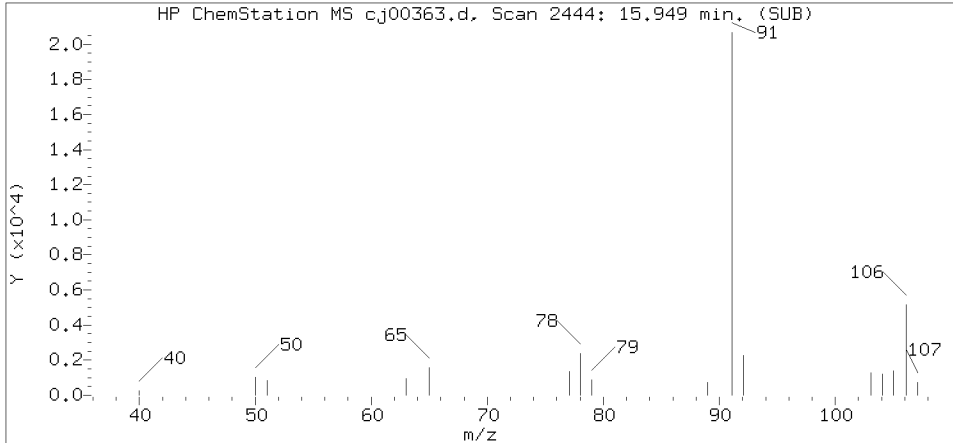
Sample Name: 1019- Lab Sample ID: 8087710

Compound Number : 67
 Compound Name : Tetrachloroethene
 Scan Number : 2052
 Retention Time (minutes): 13.564
 Relative Retention Time : 0.00073
 Quant Ion : 166.00
 Area (flag) : 91895
 Concentration (ppb(v)) : 0.5370

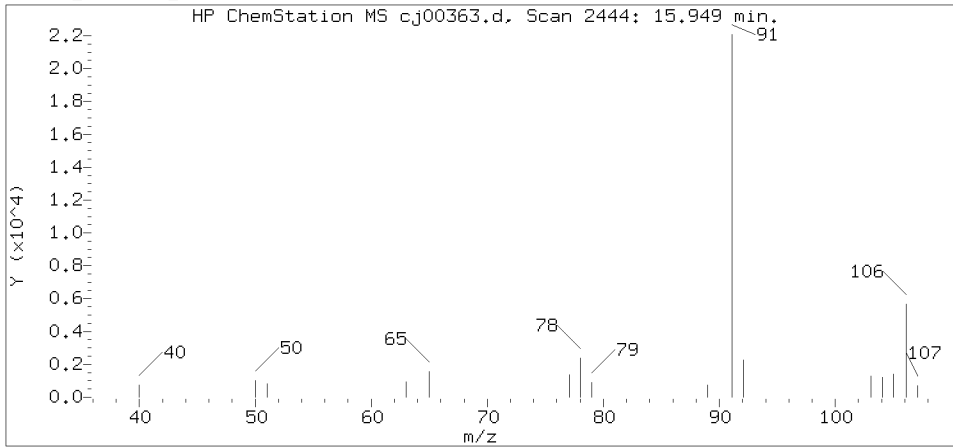
Reference Standard Spectrum for Ethylbenzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00363.d
 Injection date and time: 17-OCT-2015 01:33

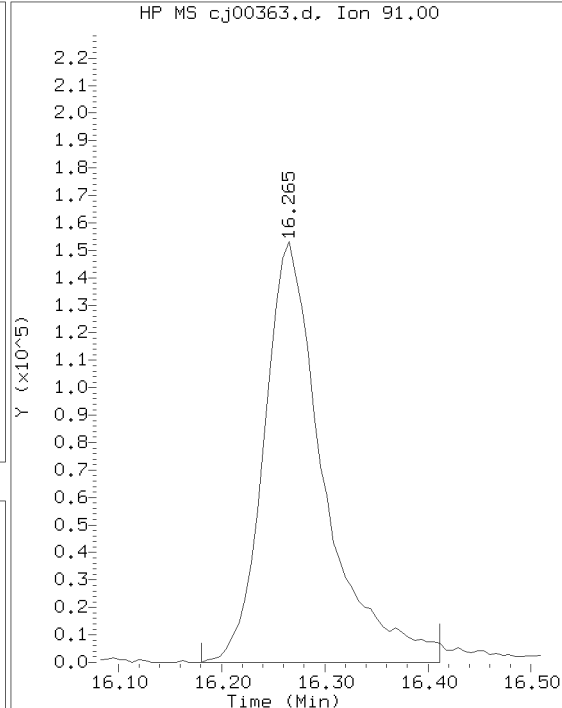
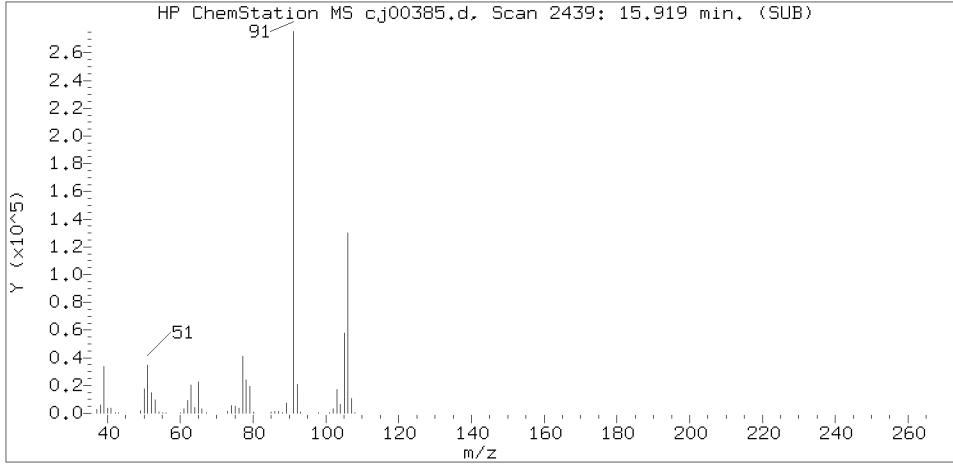
Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 16-OCT-2015 16:10
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

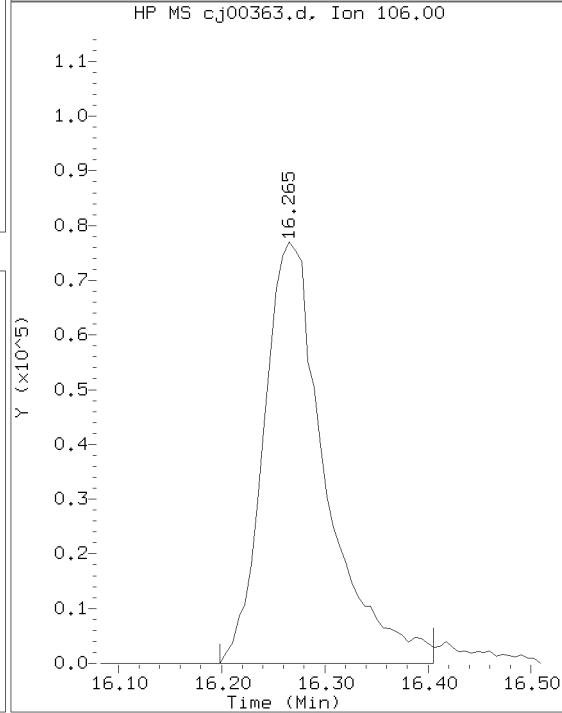
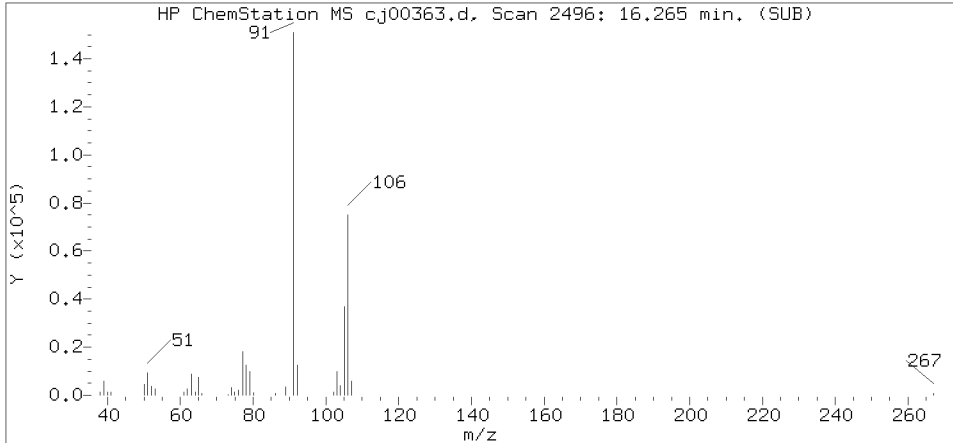
Sample Name: 1019- Lab Sample ID: 8087710

Compound Number : 74
 Compound Name : Ethylbenzene
 Scan Number : 2444
 Retention Time (minutes): 15.949
 Relative Retention Time : 0.00040
 Quant Ion : 91.00
 Area (flag) : 82163
 Concentration (ppb(v)) : 0.3700

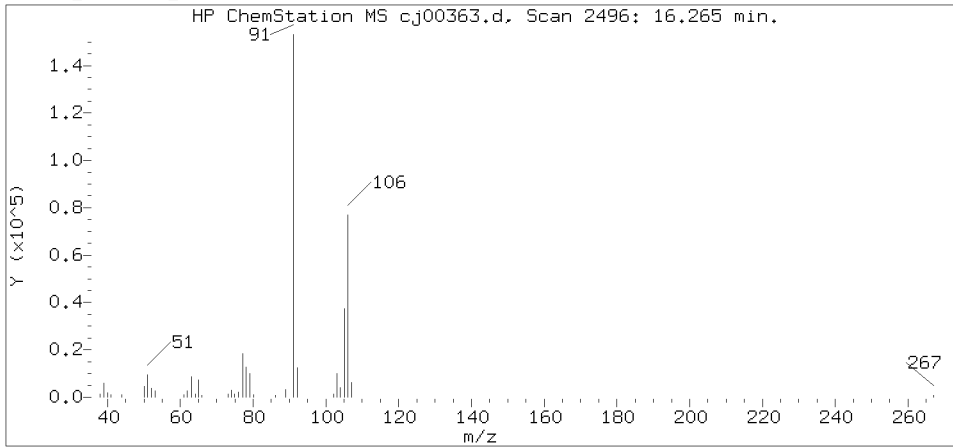
Reference Standard Spectrum for m/p-Xylene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00363.d
 Injection date and time: 17-OCT-2015 01:33

Instrument ID: HP09464.i
 Analyst ID: jeb07445

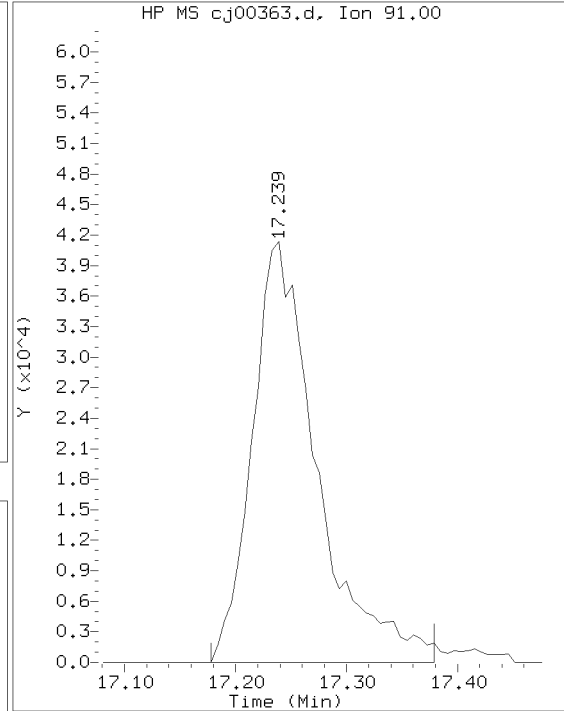
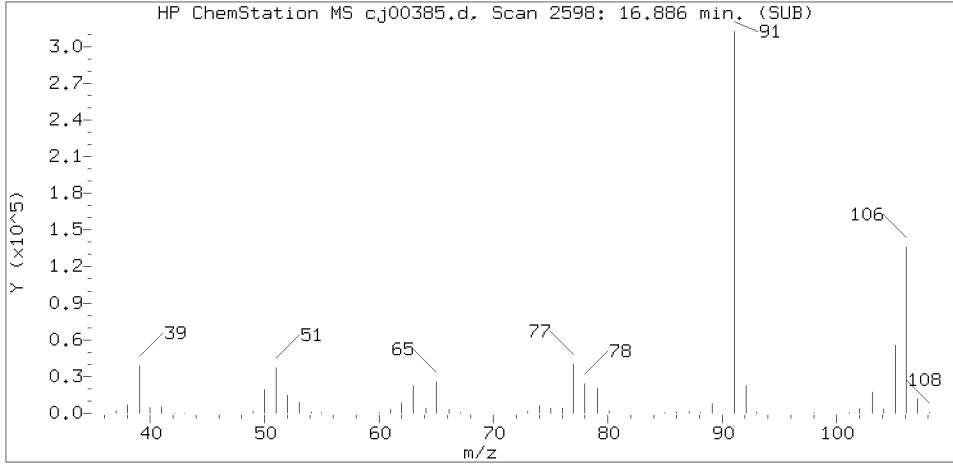
Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 16-OCT-2015 16:10
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

Sample Name: 1019-

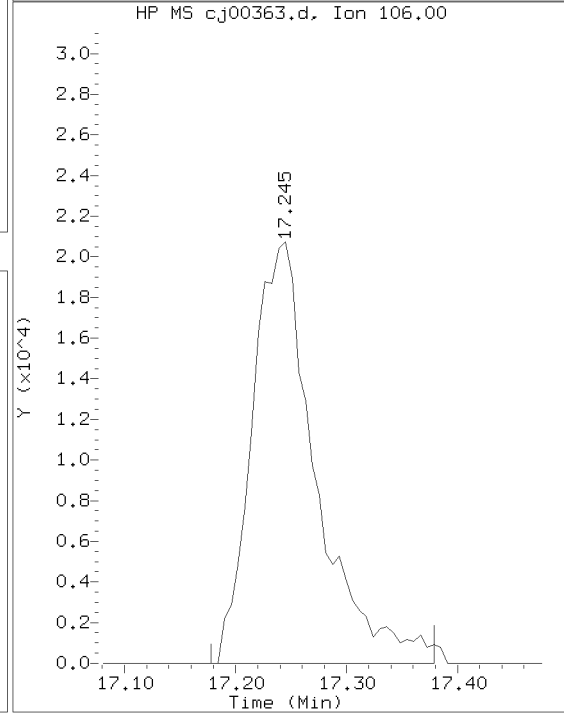
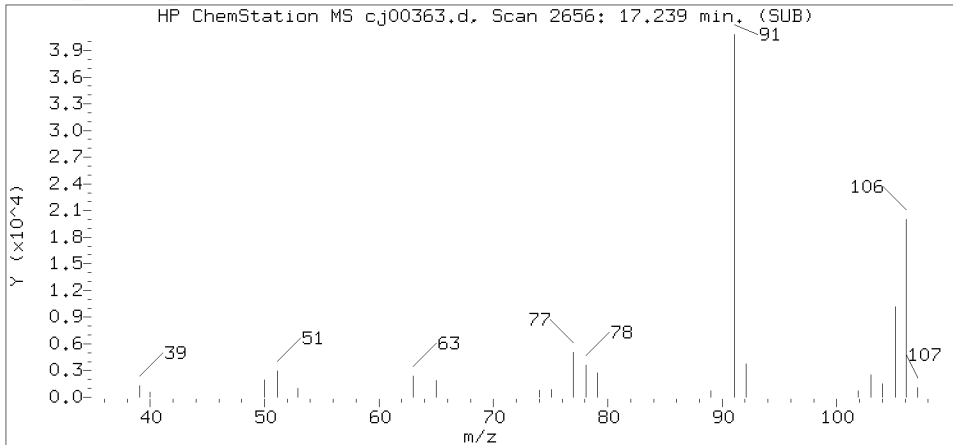
Lab Sample ID: 8087710

Compound Number : 75
 Compound Name : m/p-Xylene
 Scan Number : 2496
 Retention Time (minutes): 16.265
 Relative Retention Time : 0.00002
 Quant Ion : 91.00
 Area (flag) : 614871
 Concentration (ppb(v)) : 3.3478

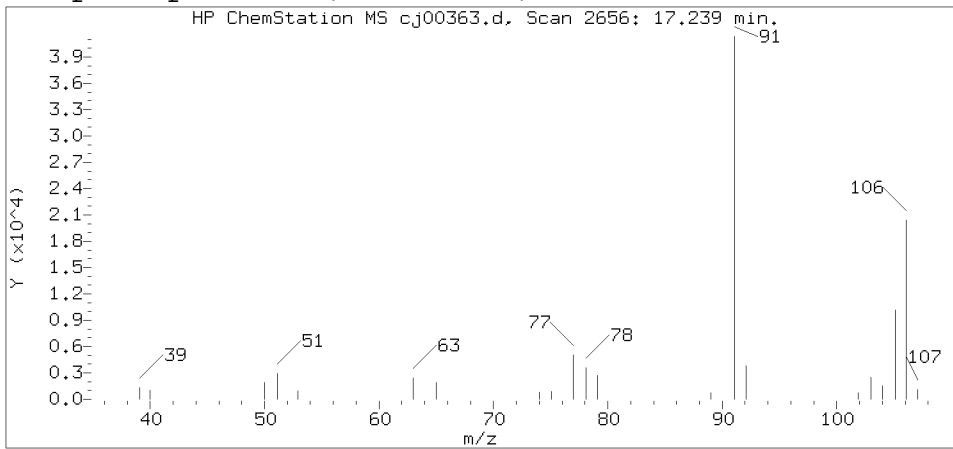
Reference Standard Spectrum for o-Xylene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00363.d
 Injection date and time: 17-OCT-2015 01:33

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 16-OCT-2015 16:10
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

Sample Name: 1019-

Lab Sample ID: 8087710

Compound Number : 76
 Compound Name : o-Xylene
 Scan Number : 2656
 Retention Time (minutes): 17.239
 Relative Retention Time : 0.00004
 Quant Ion : 91.00
 Area (flag) : 166800
 Concentration (ppb(v)) : 0.8629



SDG No.:

Sample Media:	CANISTER	Lab Sample ID:	8087710
Canister ID:	1019	Lab File ID:	cj00363.d
Pressure Received:	27.4 psia	Date Collected:	10/09/2015
Final Pressure:	13.7 psia	Date Received:	10/14/2015
Nominal Volume:	250 cc	Analyzed Date:	10/17/2015
Injection Volume:	500 cc	Analyzed Time:	01:33
Instrument ID:	09464	Dilution Factor:	1

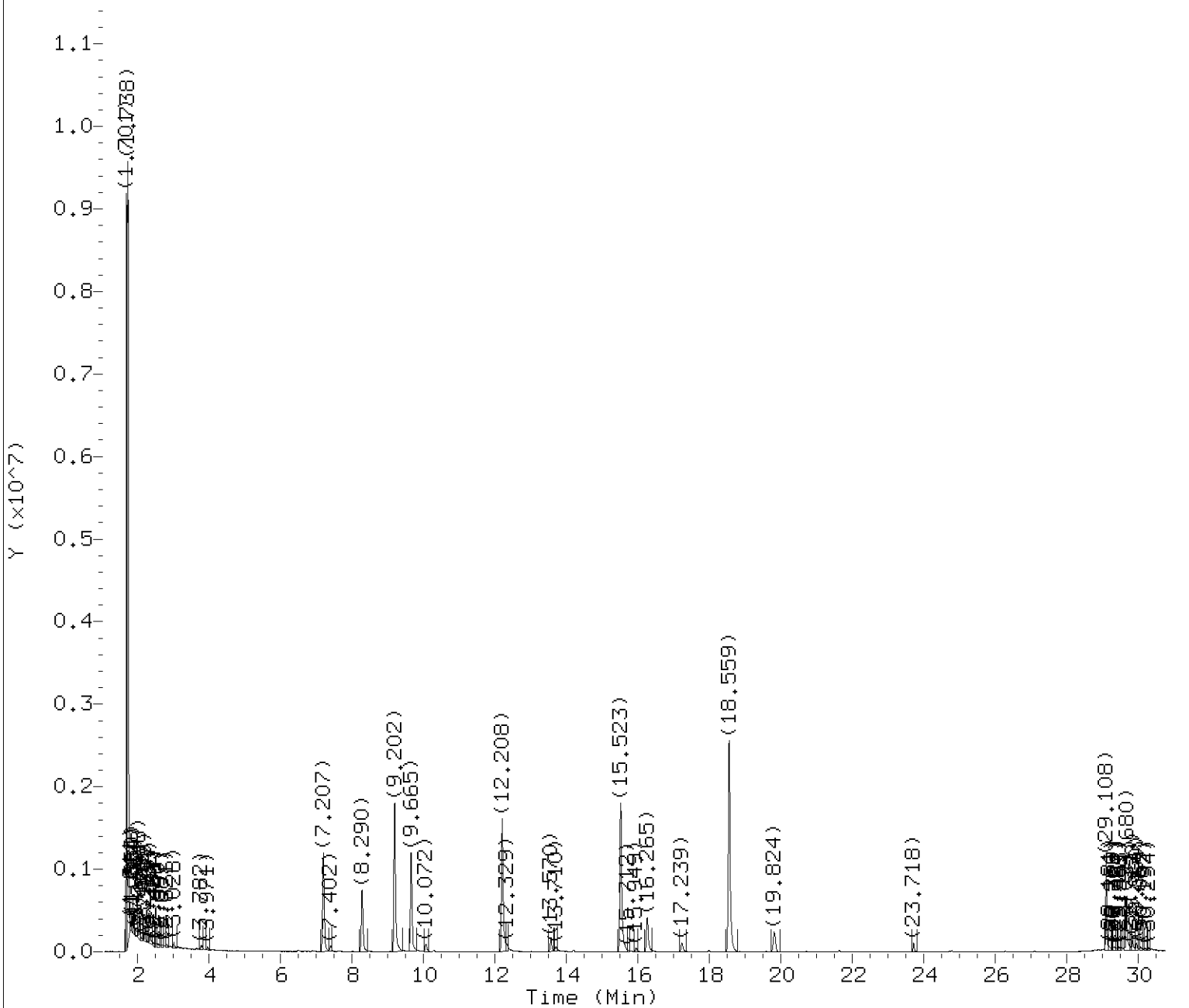
Number TICs Found: 2

Concentration Units: ppb(v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
	Unknown	2.22	1	J
556-67-2	Cyclotetrasiloxane, octamethyl	19.82	1	J
TOTVOATIC	Total Tics		3	J

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
J = The result is between the MDL and LOQ.



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00363.d
Injection date and time: 17-OCT-2015 01:33

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
Calibration date and time: 16-OCT-2015 16:10

Sublist used: 292

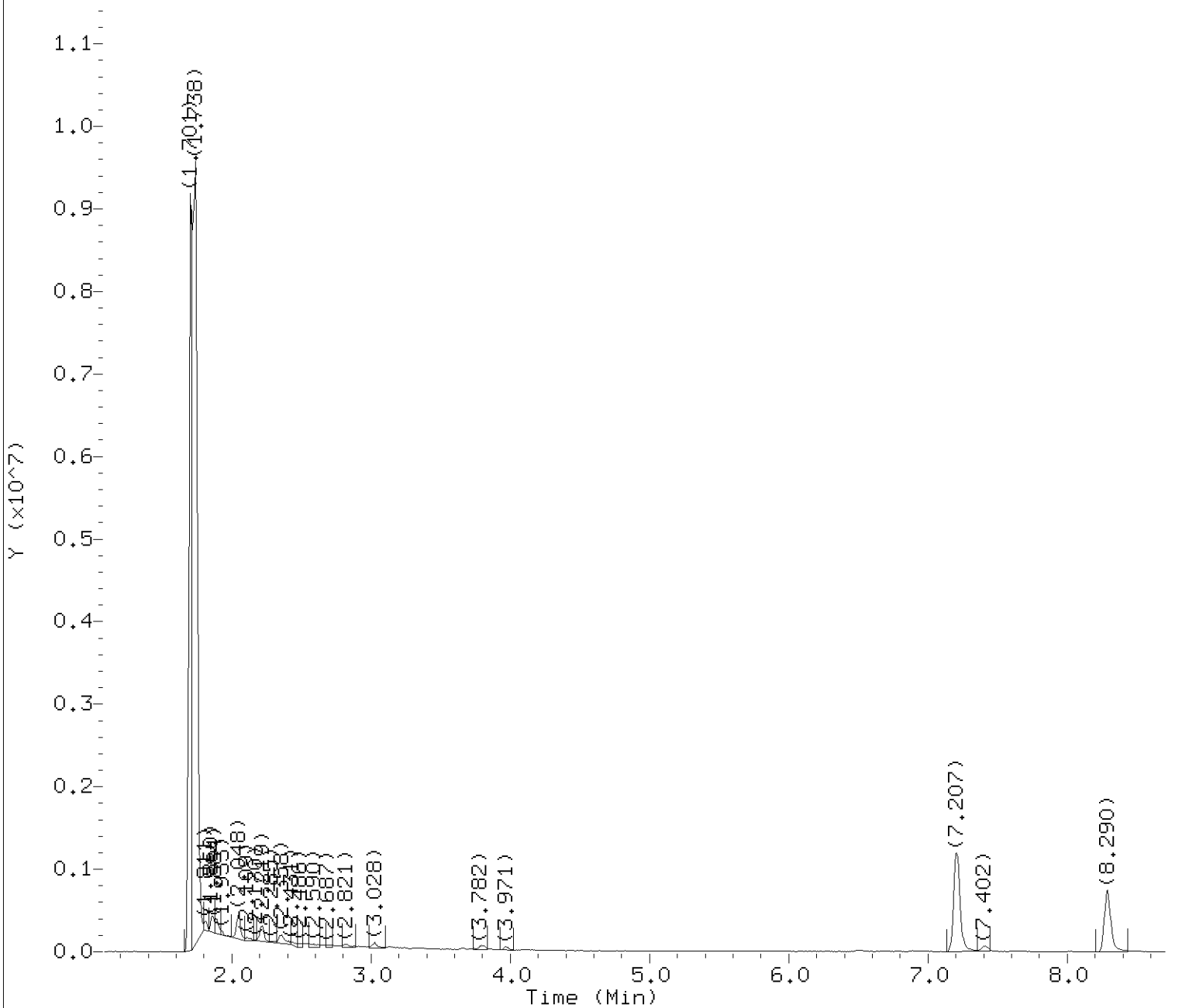
Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

Sample Name: 1019-

Lab Sample ID: 8087710

Chromatogram Start Time (min.): 1.087
Chromatogram End Time (min.): 30.750

Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:36.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00363.d
Injection date and time: 17-OCT-2015 01:33

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
Calibration date and time: 16-OCT-2015 16:10
Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

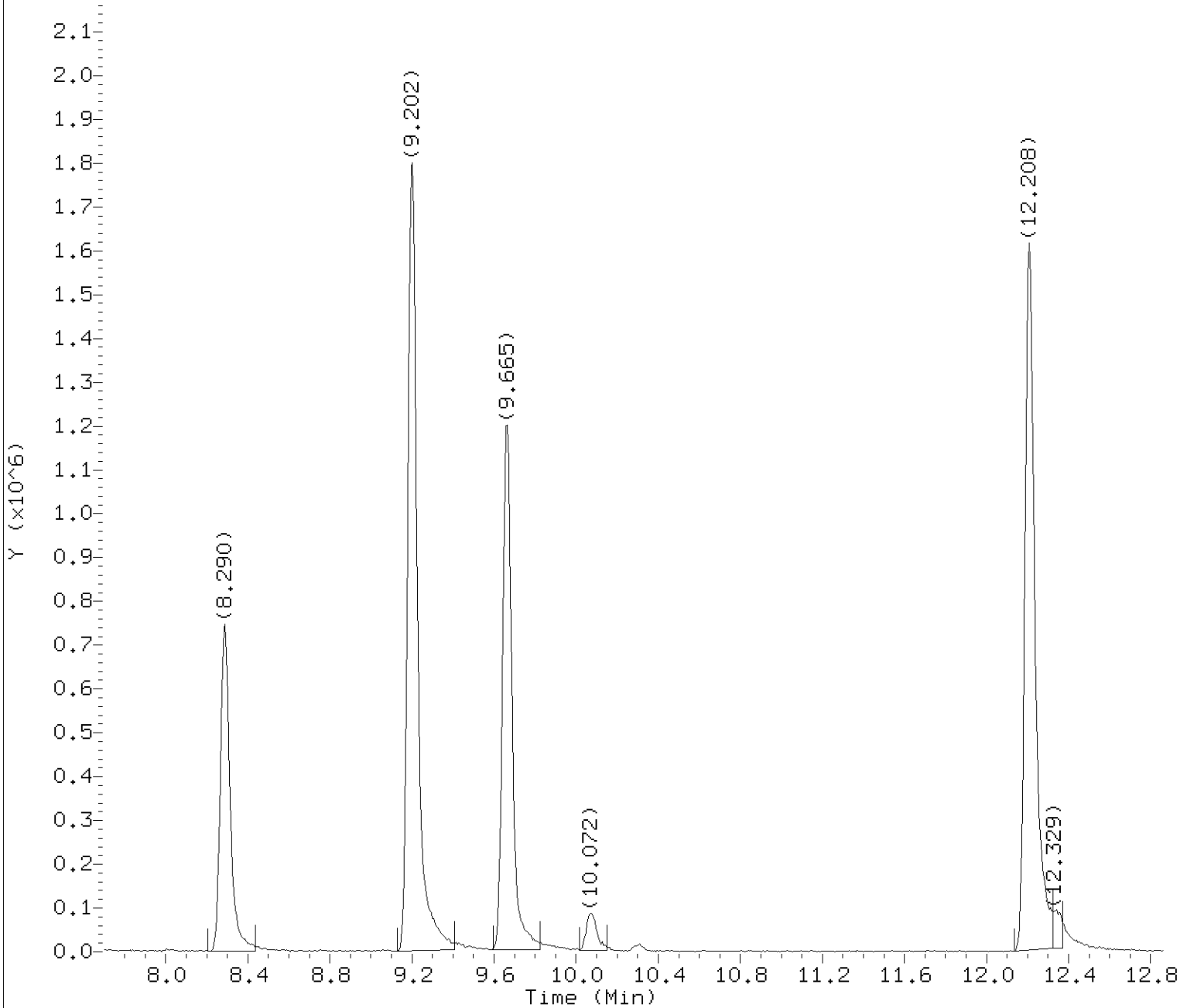
Sublist used: 292

Sample Name: 1019-

Lab Sample ID: 8087710

Internal Standard referenced: Bromochloromethane at 7.207 minutes
Chromatogram Start Time (min.): 1.087
Chromatogram End Time (min.): 8.202

Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:36.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00363.d
Injection date and time: 17-OCT-2015 01:33

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
Calibration date and time: 16-OCT-2015 16:10

Sublist used: 292

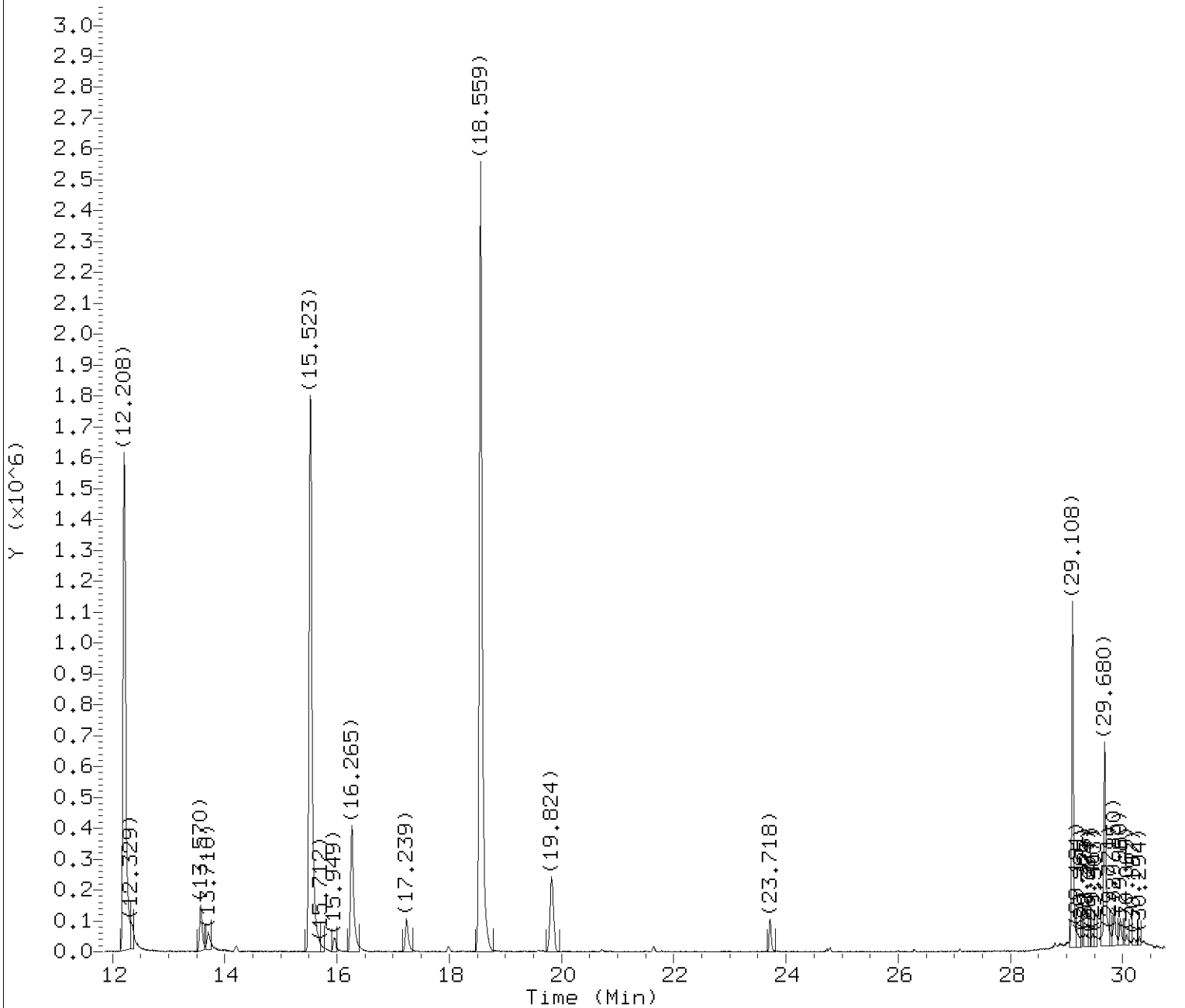
Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

Sample Name: 1019-

Lab Sample ID: 8087710

Internal Standard referenced: 1,4-Difluorobenzene at 9.196 minutes
Chromatogram Start Time (min.): 8.202
Chromatogram End Time (min.): 12.360

Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:36.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00363.d
Injection date and time: 17-OCT-2015 01:33

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
Calibration date and time: 16-OCT-2015 16:10
Date, time and analyst ID of latest file update: 26-Oct-2015 14:23 jbs01304

Sublist used: 292

Sample Name: 1019-

Lab Sample ID: 8087710

Internal Standard referenced: Chlorobenzene-d5 at 15.523 minutes
Chromatogram Start Time (min.): 12.360
Chromatogram End Time (min.): 30.750

Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:36.
Target 3.5 esignature user ID: jbs01304

Lancaster Laboratories, Inc.

Data file : /chem/HP09464.i/15oct16.b/cj00363.d
Lab Smp Id: 8087710 Client Smp ID: 1019-
Inj Date : 17-OCT-2015 01:33
Operator : jeb07445 Inst ID: HP09464.i
Smp Info : 8087710;500;C1528830AB;1019-;0;0;SAMPLE;
Misc Info : cj00353;292.sub;250;13.7174;27.4348;1019;
Comment :
Method : /chem/HP09464.i/15oct16.b/to-15.m
Meth Date : 26-Oct-2015 14:20 jbs01304 Quant Type: ISTD
Cal Date : 16-OCT-2015 10:21 Cal File: cj00337.d
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 292.sub
Target Version: 3.50
Processing Host: d30cs01

Concentration Formula: Amt * DF * (Xa/Ya)*(IVn/IVa) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Xa	27.43480	canister pressure absolute after dilutio
Ya	13.71740	canister pressure absolute before diluti
IVn	250.00000	nominal injection volume
IVa	500.00000	actual injection volume

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 40 Bromochloromethane	7.207	3954076	10.000
* 71 Chlorobenzene-d5	15.523	7014636	10.000

RT	CONCENTRATIONS				QUANT		
	AREA	ON-COL(ppb(v))	FINAL(ppb(v))	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	=====	=====	====	=====	=====	=====
Unknown				CAS #:			
2.219	423359	1.07068951	1.070690	0		0	40

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL(ppb(v))	FINAL(ppb(v))		LIBRARY	LIB ENTRY	
19.824	1045439	1.49036842	1.490368	90	NIST11.1	141482	71

Date : 17-OCT-2015 01:33

Client ID: 1019-

Instrument: HP09464.i

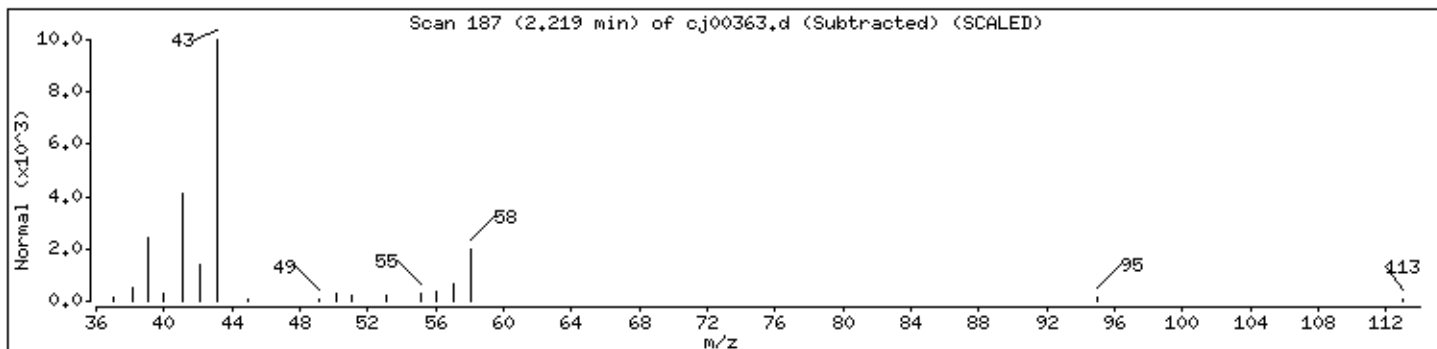
Sample Info: 8087710;500;C1528830AB;1019-;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Date : 17-OCT-2015 01:33

Client ID: 1019-

Instrument: HP09464,i

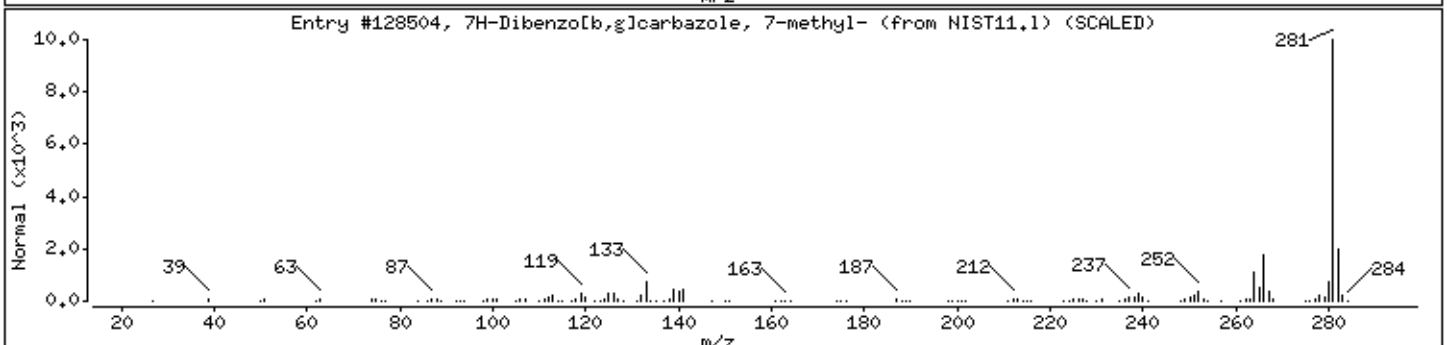
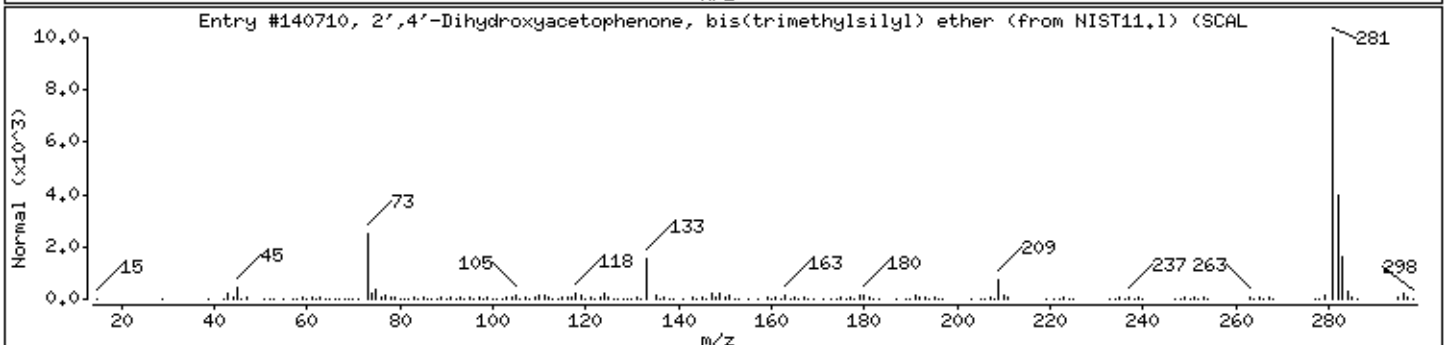
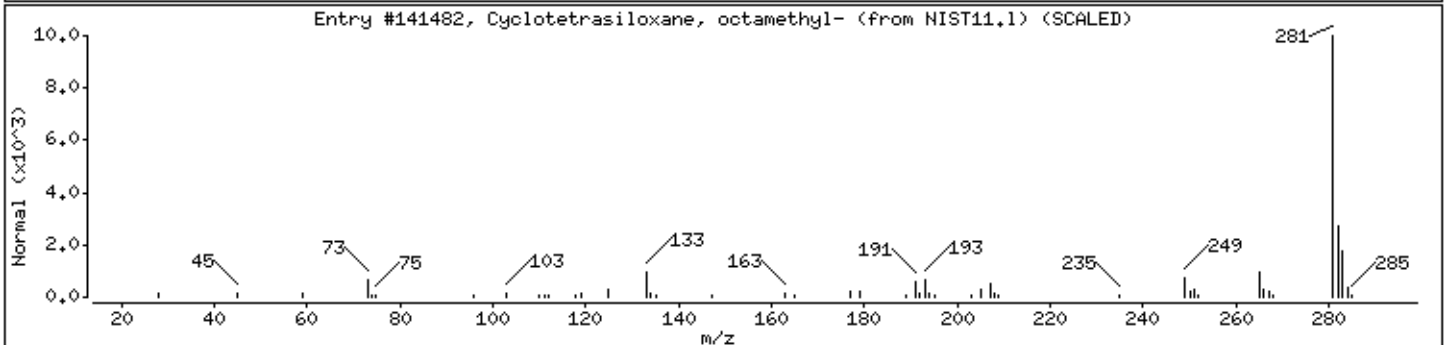
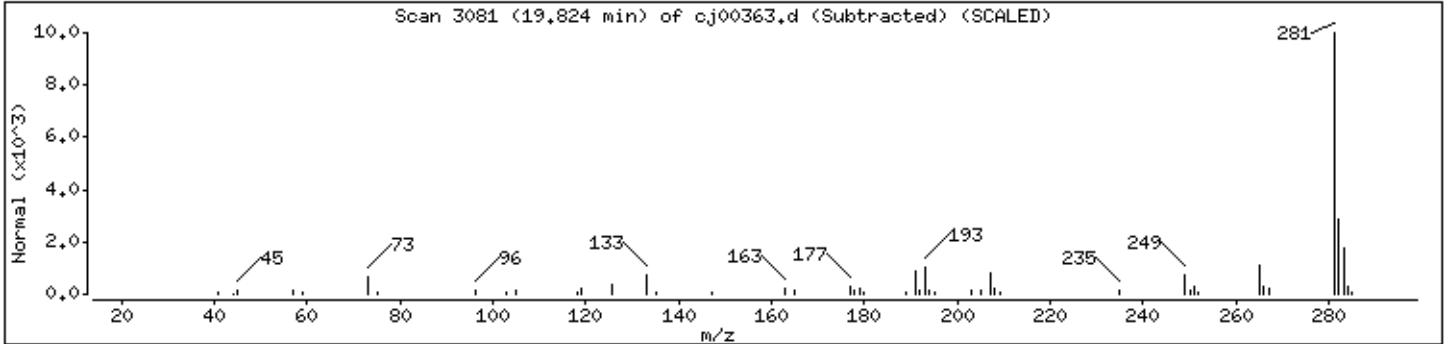
Sample Info: 8087710;500;C1528830AB;1019-;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NIST11.1	141482	90	C8H24O4Si4	296
2',4'-Dihydroxyacetophenone, bis(trimethylsilyl) ether	1000352-82-1	NIST11.1	140710	59	C14H24O3Si2	296
7H-Dibenzo[b,g]carbazole, 7-methyl-	3557-49-1	NIST11.1	128504	50	C21H15N	281



1011-

Lancaster Laboratories, Inc.
 Analysis Summary for GC/MS Volatiles in Air 8087711

Data file: /chem/HP09464.i/15oct16.b/cj00364.d Injection date and time: 17-OCT-2015 02:21
 Data file Sample Info. Line: 8087711;500;C1528830AB;1011-;0;0;SAMPLE; Instrument ID: HP09464.i Batch: C1528830AB
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

Blank Data file reference: /chem/HP09464.i/15oct16.b/cj00353.d

Method used: /chem/HP09464.i/15oct16.b/to-15.m Sublist used: 292
 Calibration date and time (Last Method Edit): 21-OCT-2015 16:54
 Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15oct16.b/cj00351.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
 Canister Pressure after dilution (Xa): 27.8 psia Canister Pressure before dilution (Ya): 13.9 psia
 Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 500 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.219(-0.018)	1009	130	725697 (-9)	10.00		480075 - 1120173
51) 1,4-Difluorobenzene	9.203(-0.012)	1335	114	1982929 (-24)	10.00		1574006 - 3672680
71) Chlorobenzene-d5	15.524(-0.006)	2374	117	1943039 (-19)	10.00		1433482 - 3344790

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
2) Dichlorodifluoromethane	(1)			Not Detected					0.2	1
3) Chlorodifluoromethane	(1)			Not Detected					0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)			Not Detected					0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)			Not Detected					0.2	1
13) Pentane	(1)	3.162(-0.003)	43	277854	7.100	7.10			0.2	1
17) 1,1-Dichloroethene	(1)			Not Detected					0.2	1
18) Freon 113	(1)			Not Detected					0.5	2
19) Acetone	(1)	3.800(-0.002)	43	313075	10.490	10.49			0.5	2
21) Carbon Disulfide	(1)	3.995(-0.004)	76	81154	0.526	0.53		J	0.5	1
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)	5.528(-0.003)	57	36288	0.780	0.78		J	0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)	6.788(-0.000)	61	329555	5.635	5.63			0.2	1
37) 2-Butanone	(1)	6.891(-0.000)	72	42087	2.903	2.90			0.5	2
42) Chloroform	(1)			Not Detected					0.2	1
43) 1,1,1-Trichloroethane	(1)			Not Detected					0.2	1
45) Carbon Tetrachloride	(1)			Not Detected					0.2	1
46) Benzene	(2)	8.400(0.000)	78	55514	0.457	0.46		J	0.2	1
47) 1,2-Dichloroethane	(2)			Not Detected					0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
50) Heptane	(2)	9.057(-0.000)	43	12382	0.393	0.39		J	0.2	1
52) Trichloroethene	(2)	9.665(0.000)	130	77374	0.931	0.93		J	0.2	1
54) 1,2-Dichloropropane	(2)			Not Detected					0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
58) Bromodichloromethane	(2)			Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)			Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)			Not Detected					0.5	2
61) Toluene	(3)	12.348(-0.000)	91	36356	0.240	0.24		J	0.2	1
62) Octane	(3)			Not Detected					0.2	1
63) trans-1,3-Dichloropropene	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)			Not Detected					0.2	1
67) Tetrachloroethene	(3)	13.571(0.000)	166	70477M	0.546	0.55		J	0.2	1
68) 2-Hexanone	(3)			Not Detected					0.5	2
69) Dibromochloromethane	(3)			Not Detected					0.2	1

M = Compound was manually integrated.

1011-

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air 8087711

Data file: /chem/HP09464.i/15oct16.b/cj00364.d Injection date and time: 17-OCT-2015 02:21
Data file Sample Info. Line: 8087711;500;C1528830AB;1011-;0;0;SAMPLE; Instrument ID: HP09464.i Batch: C1528830AB
Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

Blank Data file reference: /chem/HP09464.i/15oct16.b/cj00353.d

Method used: /chem/HP09464.i/15oct16.b/to-15.m Sublist used: 292
Calibration date and time (Last Method Edit): 21-OCT-2015 16:54
Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15oct16.b/cj00351.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

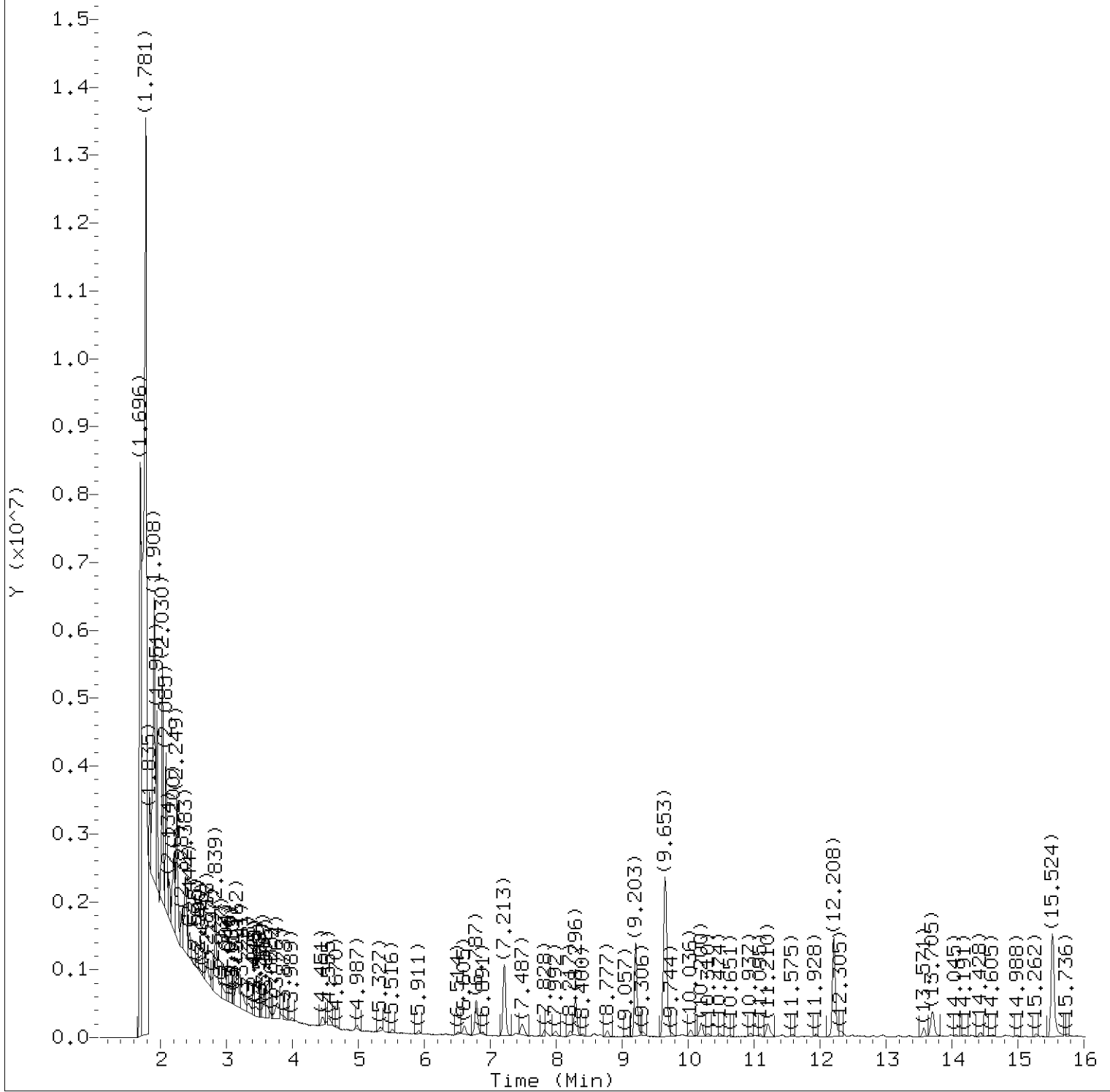
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 27.8 psia Canister Pressure before dilution (Ya): 13.9 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 500 cc

Table with columns: Target Compounds, I.S. Ref., RT (+/-RRT), QIon, Area, Conc. (on-column), Conc. (in sample), Blank Conc., Qual., Reporting Limit (in sample), LOQ. Lists various compounds like 1,2-Dibromoethane, Chlorobenzene, etc., with their respective values and detection status.

Total number of targets = 62

Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:41. Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Michele J. Smith on 10/30/2015 at 15:42. Parallax ID: mjs00758



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00364.d
Injection date and time: 17-OCT-2015 02:21

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
Calibration date and time: 21-OCT-2015 16:54

Sublist used: 292

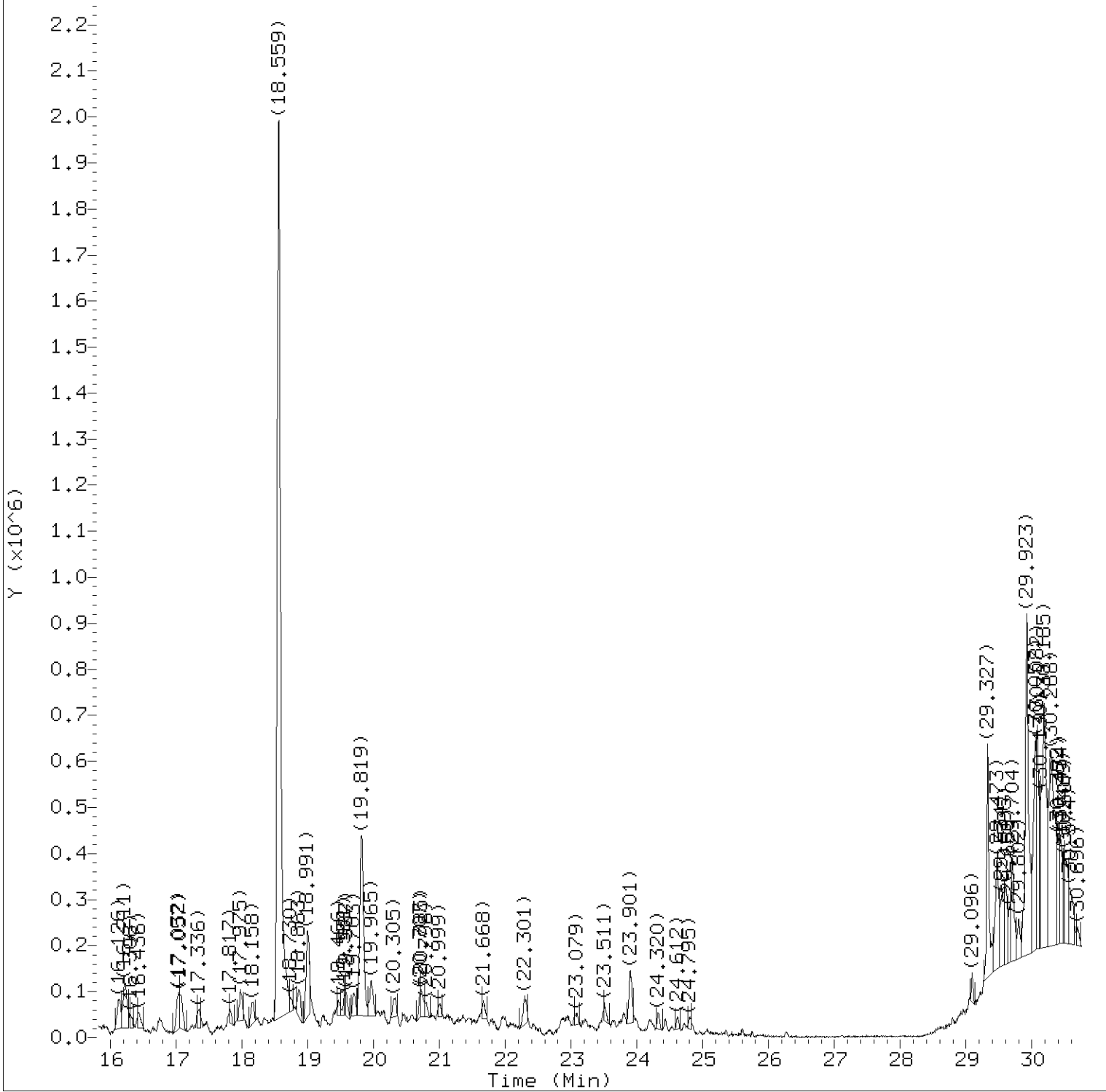
Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

Sample Name: 1011-

Lab Sample ID: 8087711

Digitally signed by Jeffrey B. Smith
on 10/29/2015 at 11:41.

Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00364.d
Injection date and time: 17-OCT-2015 02:21

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
Calibration date and time: 21-OCT-2015 16:54

Sublist used: 292

Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

Sample Name: 1011-

Lab Sample ID: 8087711

Digitally signed by Jeffrey B. Smith
on 10/29/2015 at 11:41.

Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00364.d
 Injection date and time: 17-OCT-2015 02:21

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 21-OCT-2015 16:54
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

Sublist used: 292

Sample Name: 1011-

Lab Sample ID: 8087711

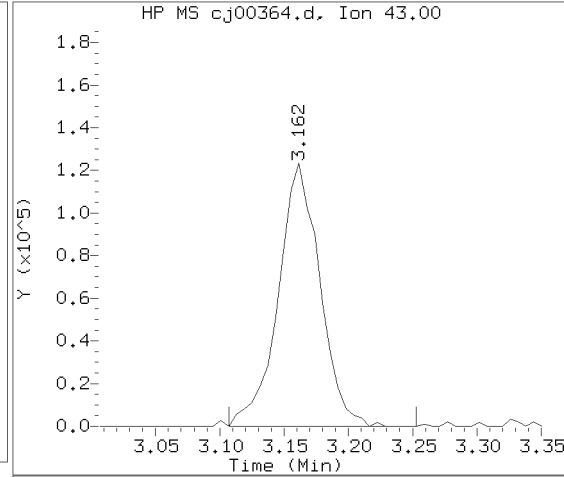
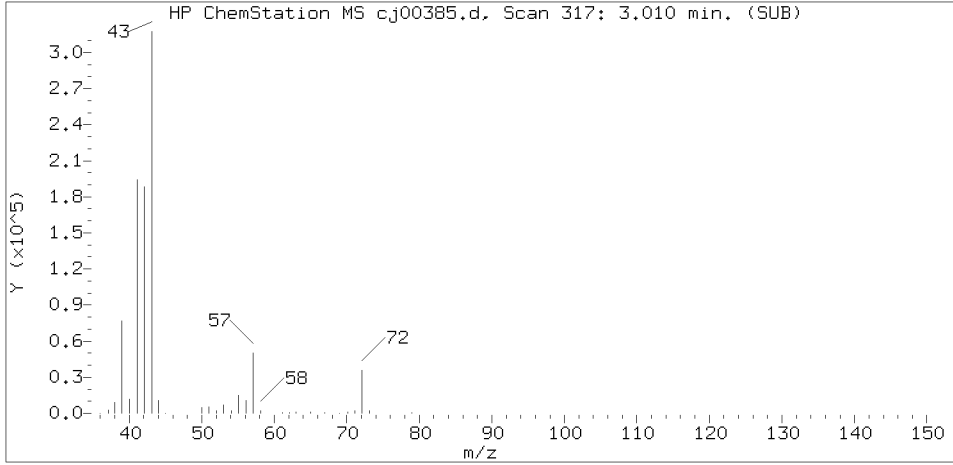
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
13) Pentane	(1)	3.162	43	277854	7.100
19) Acetone	(1)	3.800	43	313075	10.490
21) Carbon Disulfide	(1)	3.995	76	81154	0.526
30) Hexane	(1)	5.528	57	36288	0.780
35) cis-1,2-Dichloroethene	(1)	6.787	61	329555	5.635
37) 2-Butanone	(1)	6.891	72	42087	2.903
40)*Bromochloromethane	(1)	7.219	130	725697	10.000
46) Benzene	(2)	8.400	78	55514	0.457
50) Heptane	(2)	9.057	43	12382	0.393
51)*1,4-Difluorobenzene	(2)	9.203	114	1982929	10.000
52) Trichloroethene	(2)	9.665	130	77374	0.931
61) Toluene	(3)	12.348	91	36356	0.240
67) Tetrachloroethene	(3)	13.571	166	70477M	0.546
71)*Chlorobenzene-d5	(3)	15.524	117	1943039	10.000
75) m/p-Xylene	(3)	16.266	91	32167	0.232

M = Compound was manually integrated.

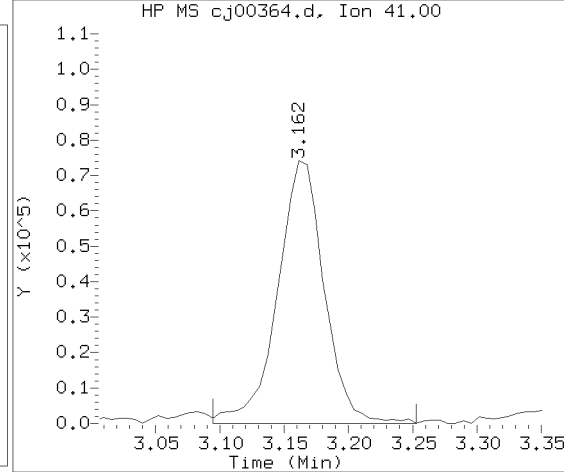
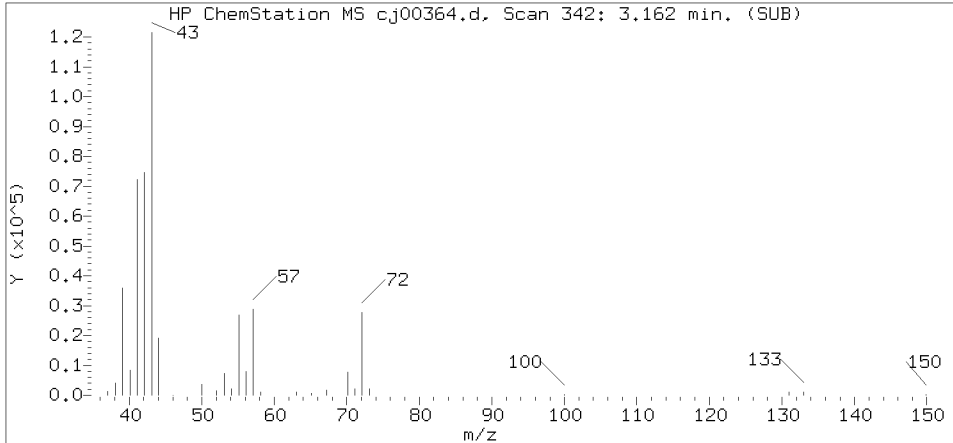
* = Compound is an internal standard.

Digitally signed by Jeffrey B. Smith
 on 10/29/2015 at 11:41.
 Target 3.5 esignature user ID: jbs01304

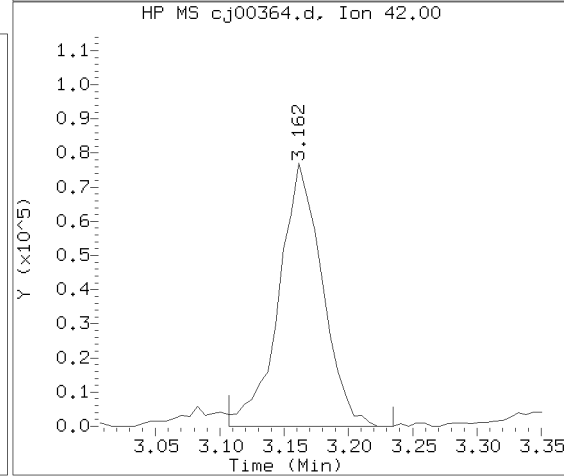
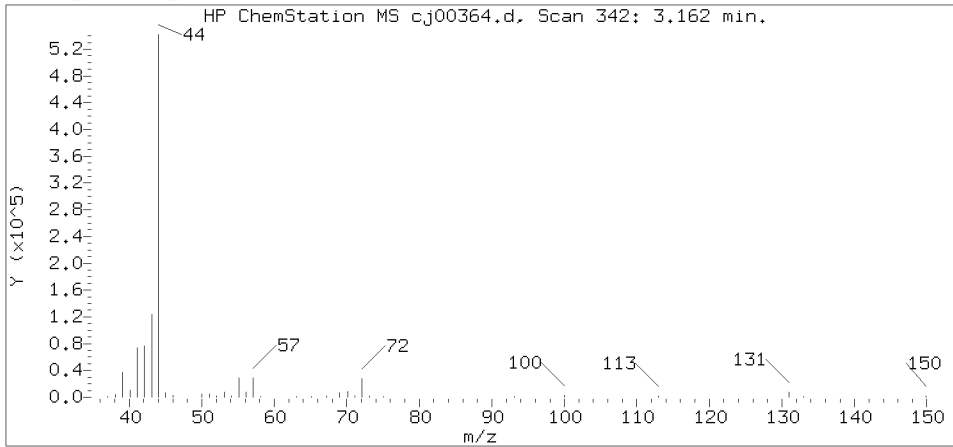
Reference Standard Spectrum for Pentane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00364.d
 Injection date and time: 17-OCT-2015 02:21

Instrument ID: HP09464.i
 Analyst ID: jeb07445

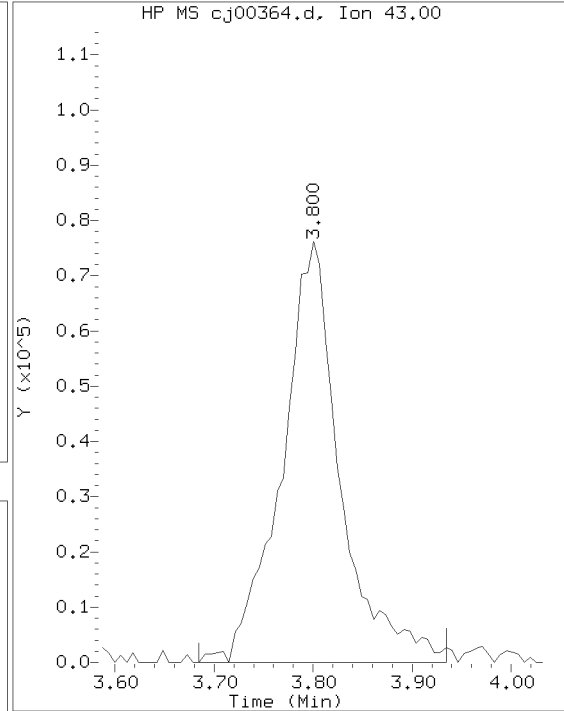
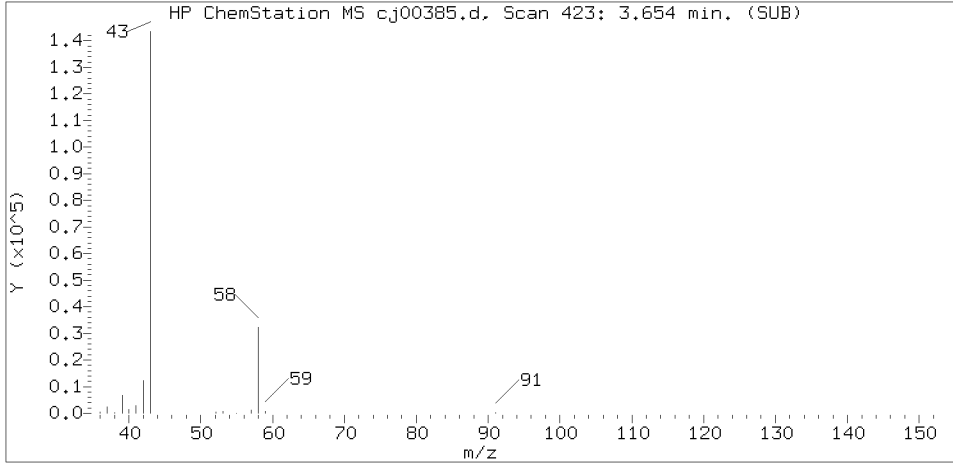
Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 21-OCT-2015 16:54
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

Sample Name: 1011-

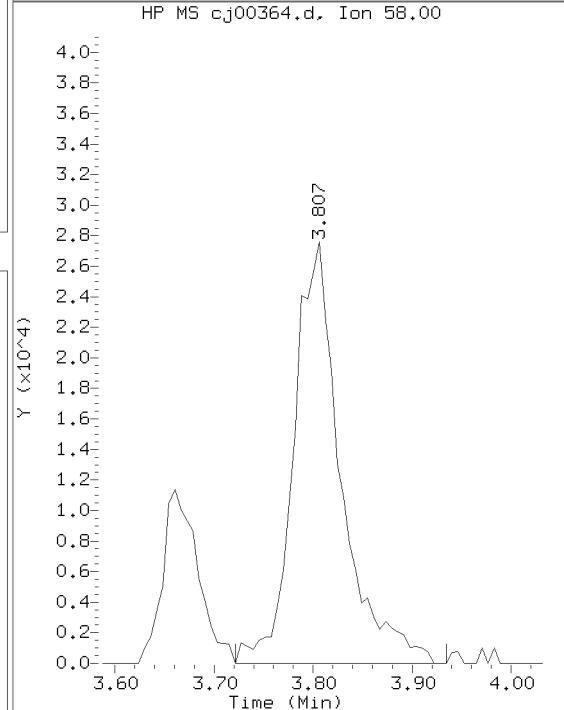
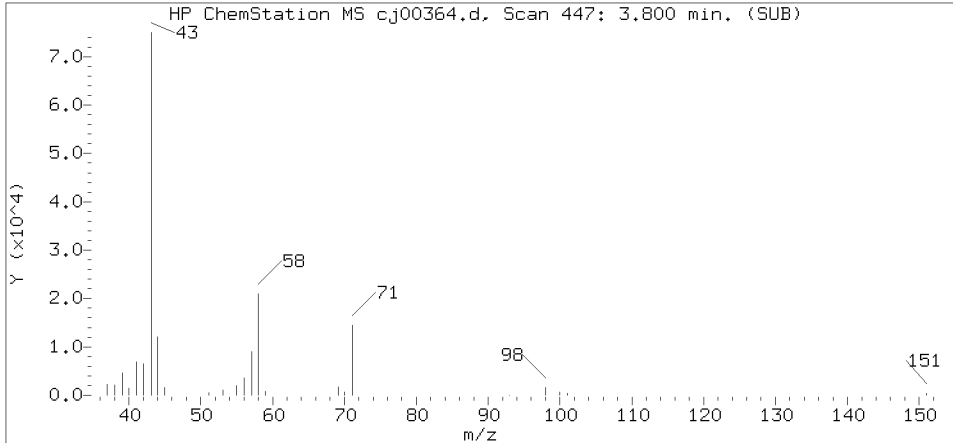
Lab Sample ID: 8087711

Compound Number : 13
 Compound Name : Pentane
 Scan Number : 342
 Retention Time (minutes): 3.162
 Relative Retention Time : -0.00398
 Quant Ion : 43.00
 Area (flag) : 277854
 Concentration (ppb(v)) : 7.1004

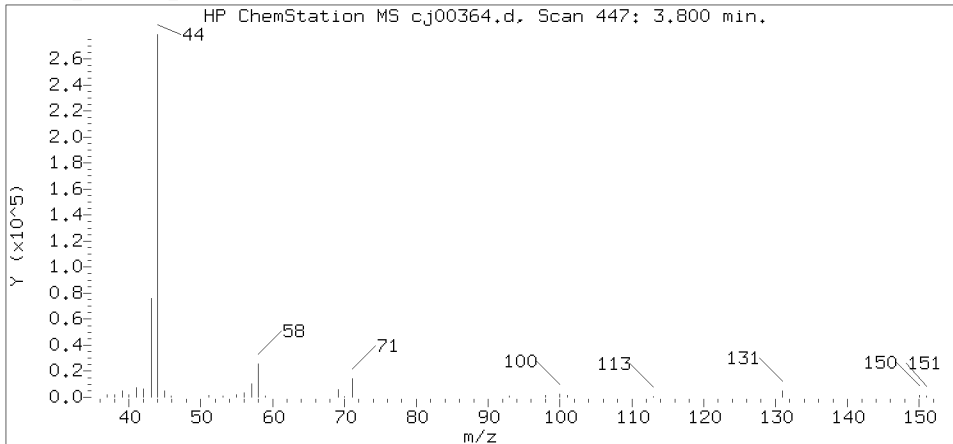
Reference Standard Spectrum for Acetone



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00364.d
 Injection date and time: 17-OCT-2015 02:21

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 21-OCT-2015 16:54
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

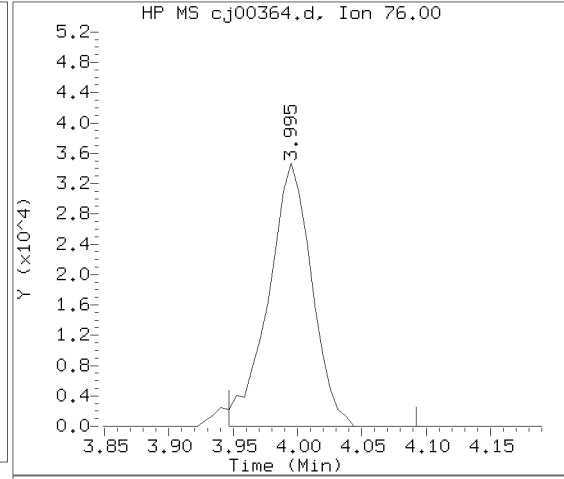
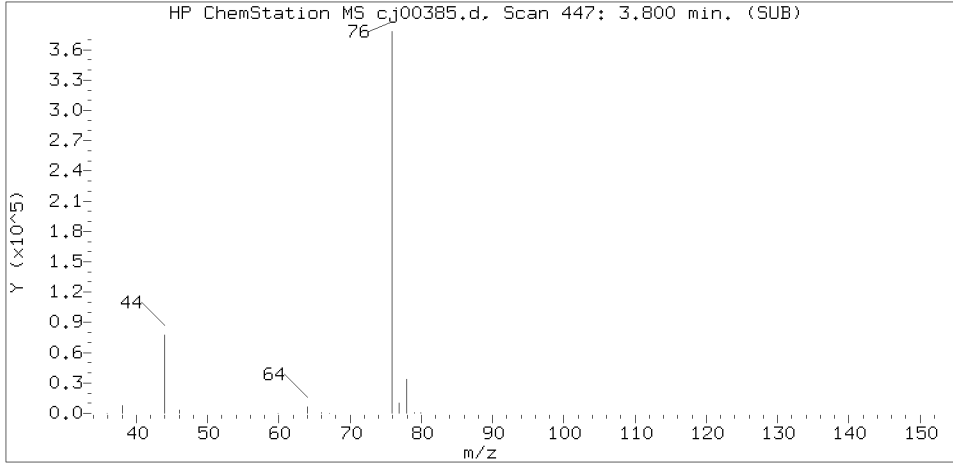
Sample Name: 1011-

Lab Sample ID: 8087711

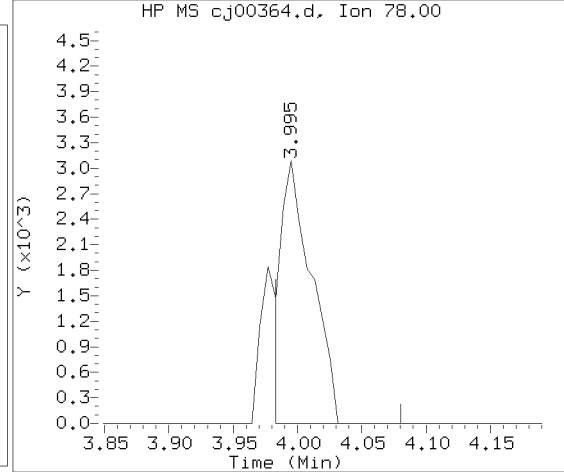
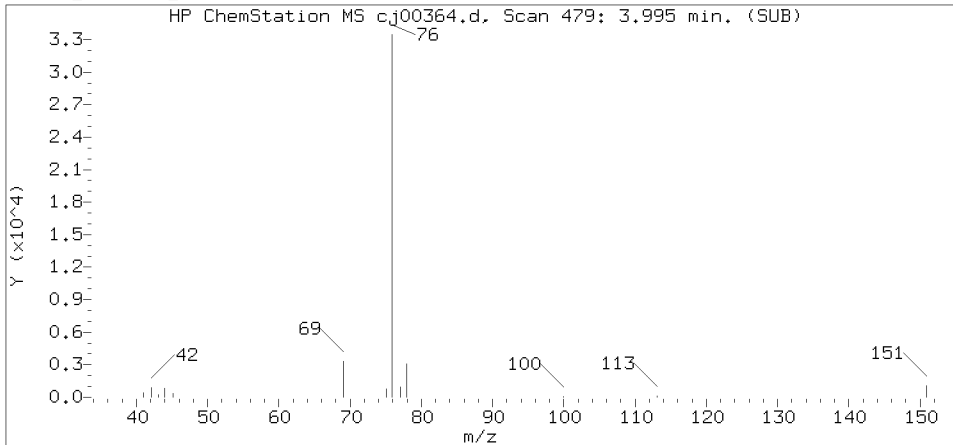
Compound Number : 19
 Compound Name : Acetone
 Scan Number : 447
 Retention Time (minutes): 3.800
 Relative Retention Time : -0.00206
 Quant Ion : 43.00
 Area (flag) : 313075
 Concentration (ppb(v)) : 10.4899

Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:41.
 Target 3.5 esignature user ID: jbs01304

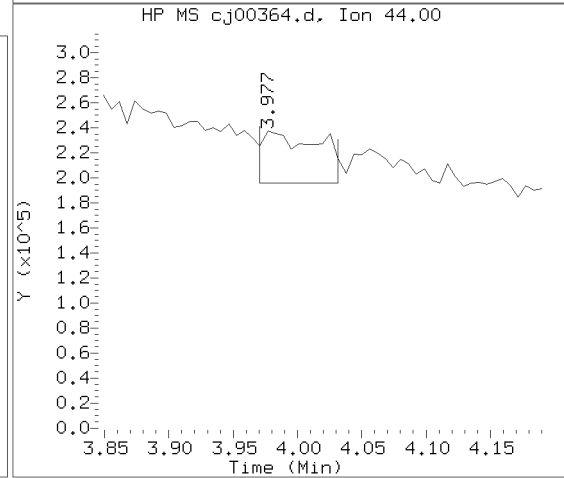
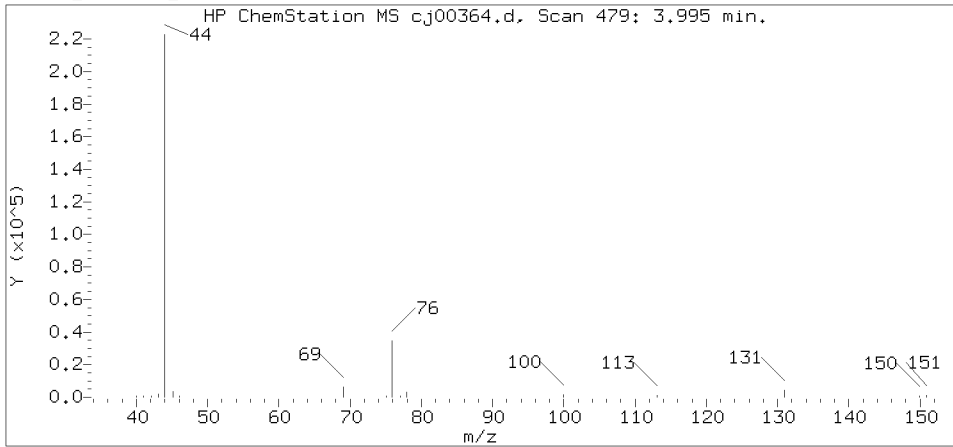
Reference Standard Spectrum for Carbon Disulfide



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00364.d
 Injection date and time: 17-OCT-2015 02:21

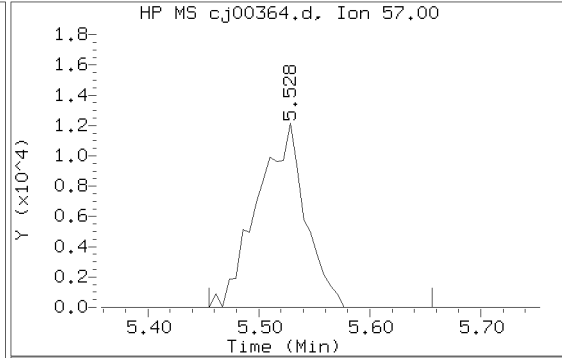
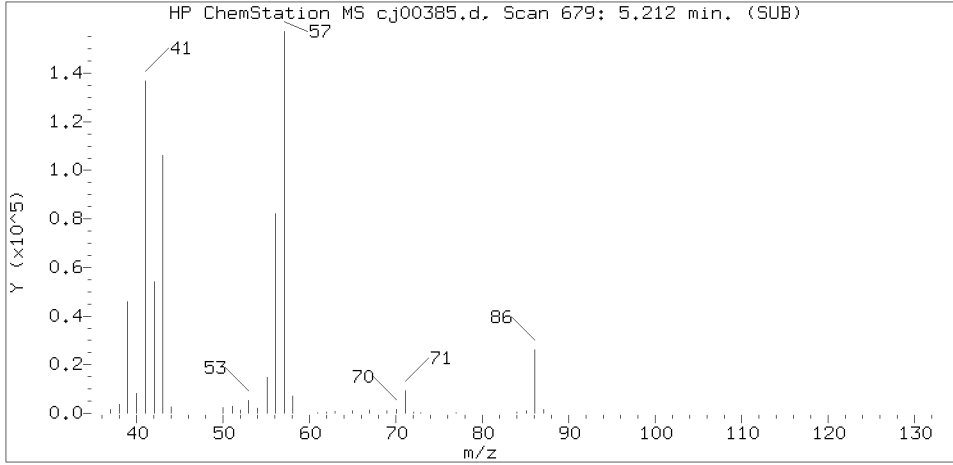
Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 21-OCT-2015 16:54
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

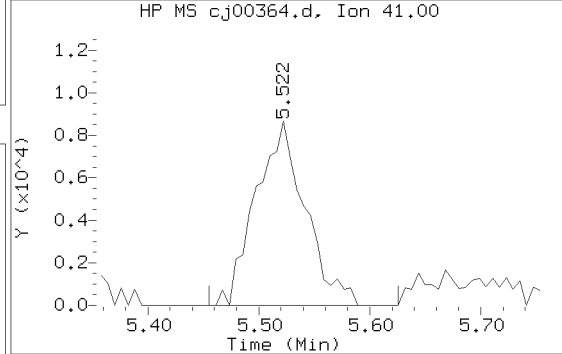
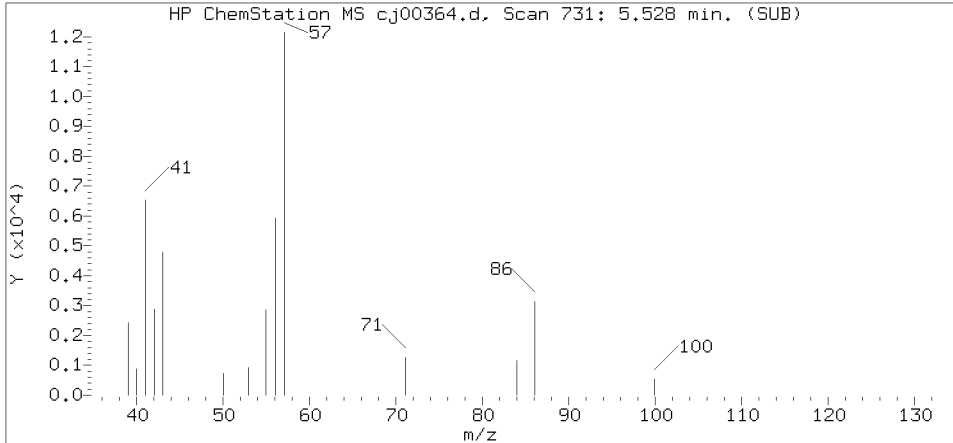
Sample Name: 1011- Lab Sample ID: 8087711

Compound Number : 21
 Compound Name : Carbon Disulfide
 Scan Number : 479
 Retention Time (minutes): 3.995
 Relative Retention Time : -0.00453
 Quant Ion : 76.00
 Area (flag) : 81154
 Concentration (ppb(v)) : 0.5262

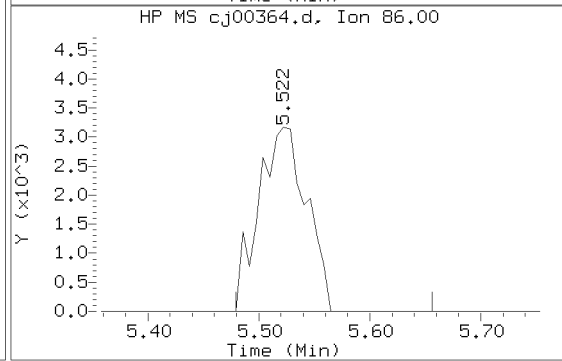
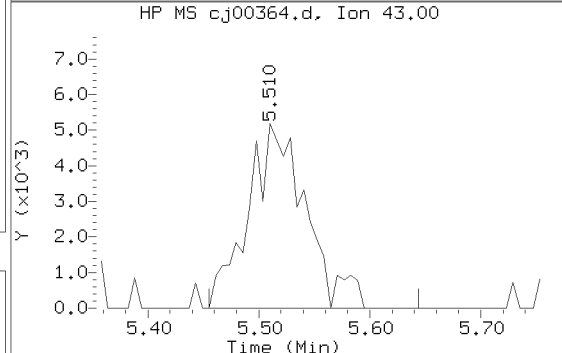
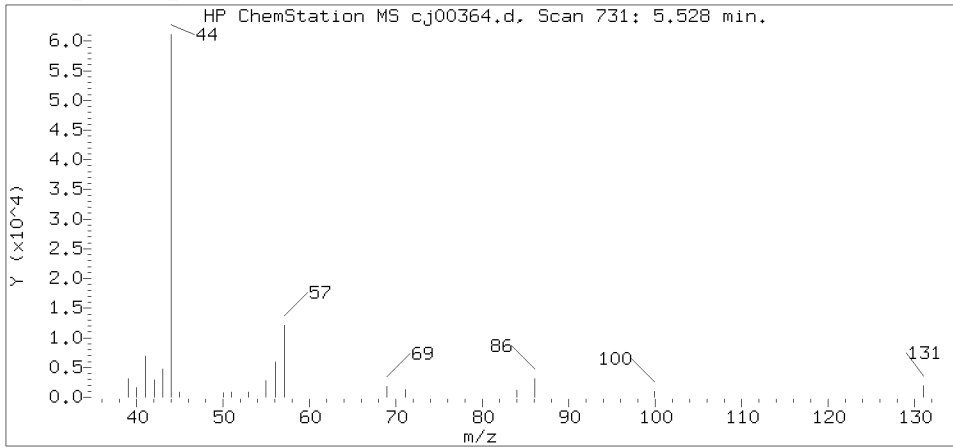
Reference Standard Spectrum for Hexane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00364.d
 Injection date and time: 17-OCT-2015 02:21

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 21-OCT-2015 16:54
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

Sample Name: 1011-

Lab Sample ID: 8087711

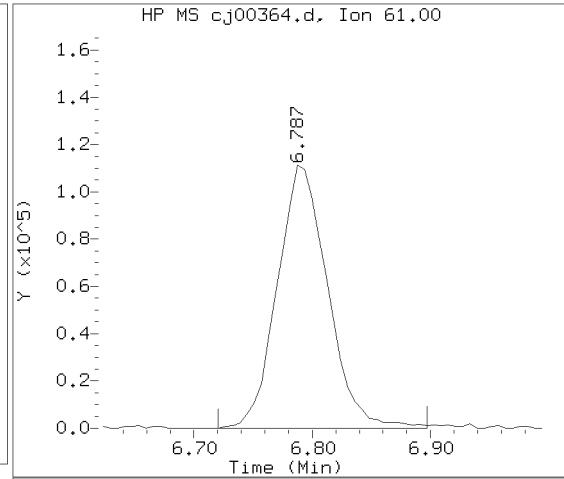
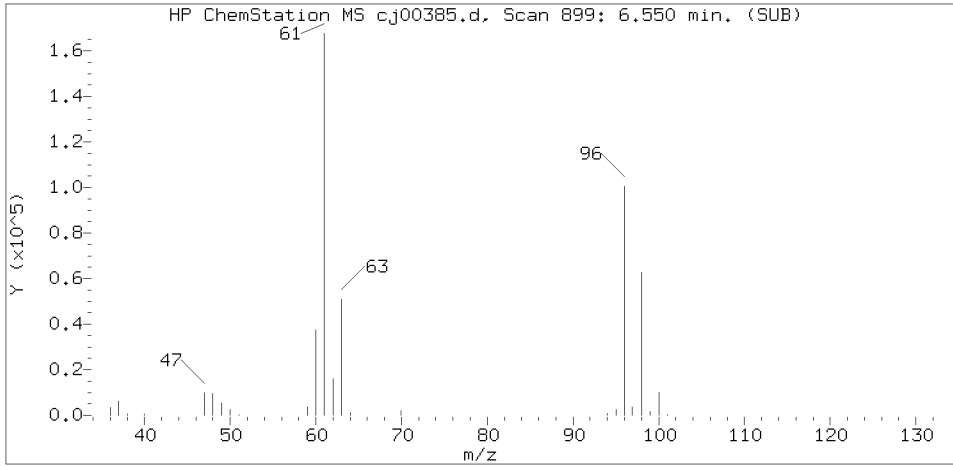
Compound Number : 30
 Compound Name : Hexane
 Scan Number : 731
 Retention Time (minutes): 5.528
 Relative Retention Time : -0.00398
 Quant Ion : 57.00
 Area (flag) : 36288
 Concentration (ppb(v)) : 0.7797

Sublist used: 292

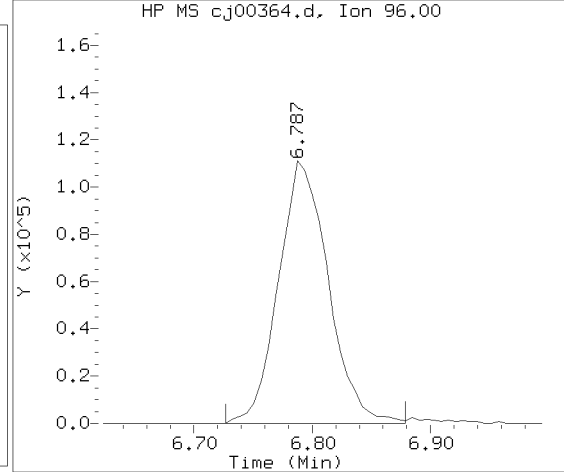
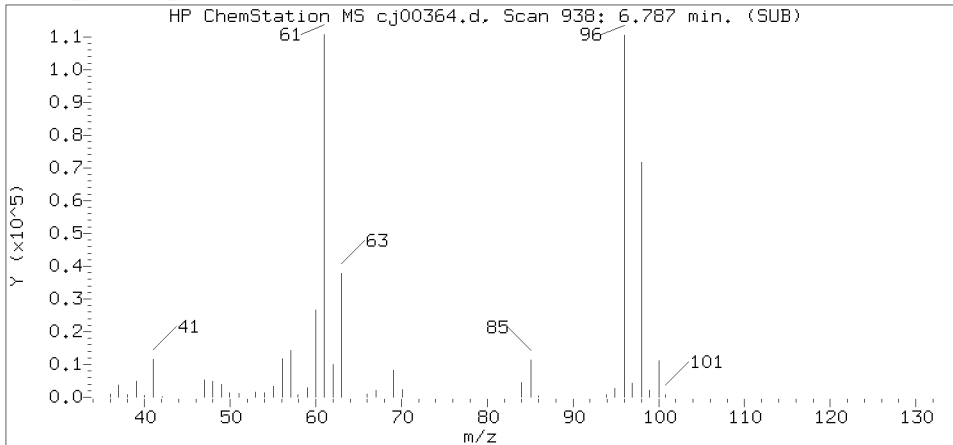
Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:41.

Target 3.5 esignature user ID: jbs01304
 SSX23 Page 113 of 1243

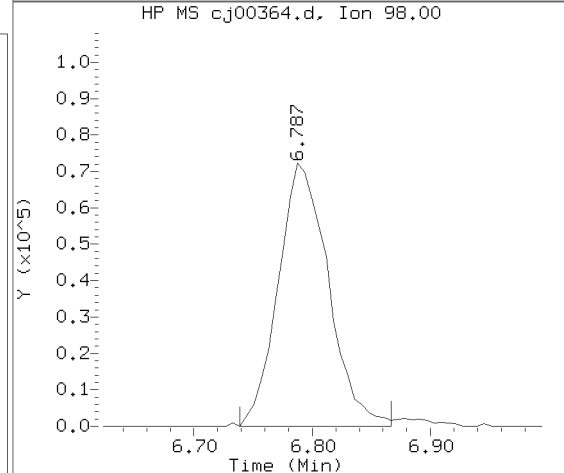
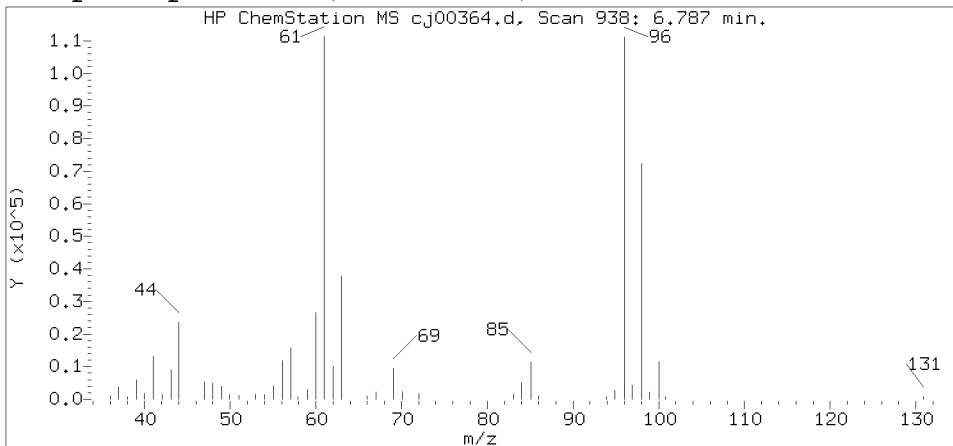
Reference Standard Spectrum for cis-1,2-Dichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00364.d
 Injection date and time: 17-OCT-2015 02:21

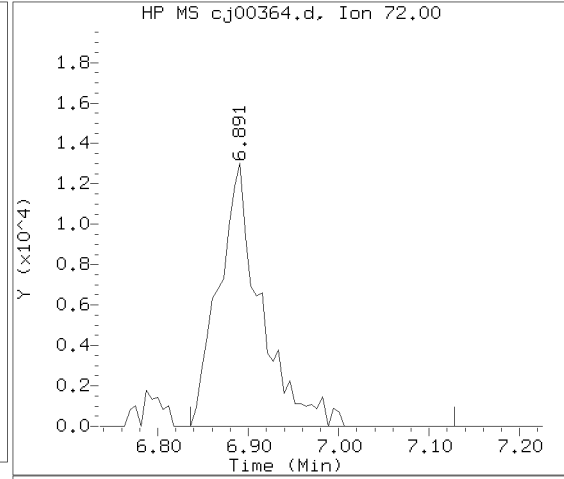
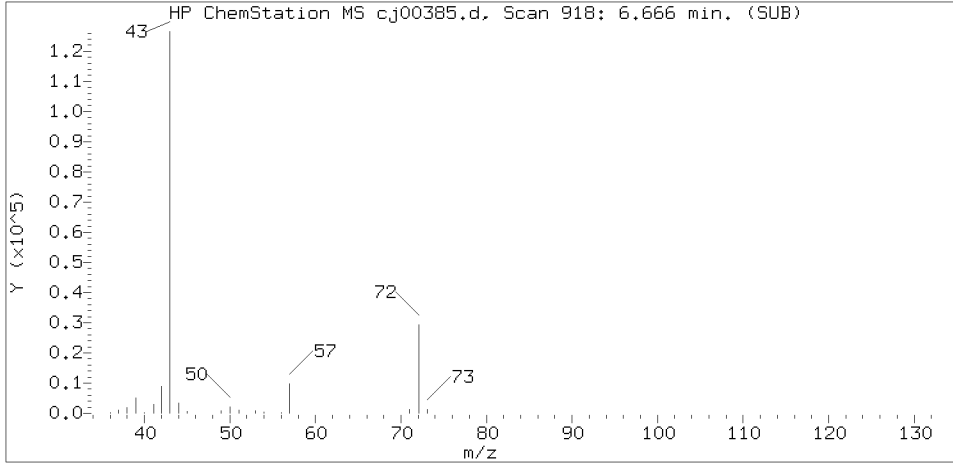
Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 21-OCT-2015 16:54
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

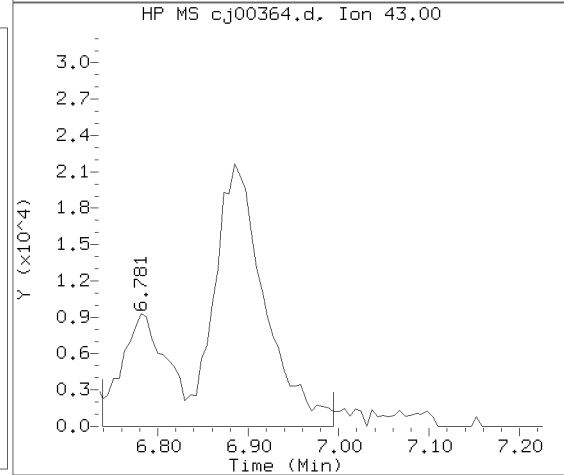
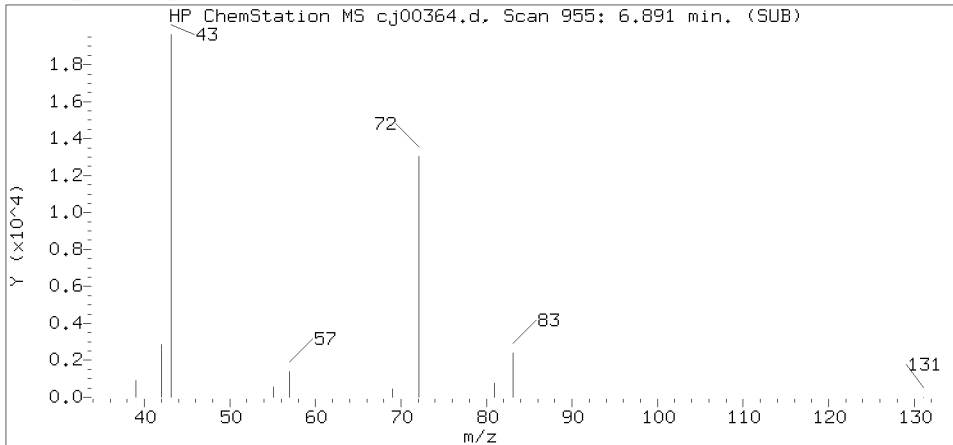
Sample Name: 1011- Lab Sample ID: 8087711

Compound Number : 35
 Compound Name : cis-1,2-Dichloroethene
 Scan Number : 938
 Retention Time (minutes): 6.787
 Relative Retention Time :-0.00015
 Quant Ion : 61.00
 Area (flag) : 329555
 Concentration (ppb(v)) : 5.6346

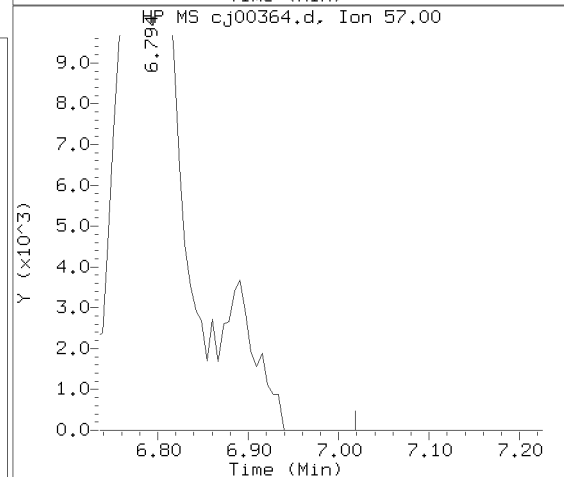
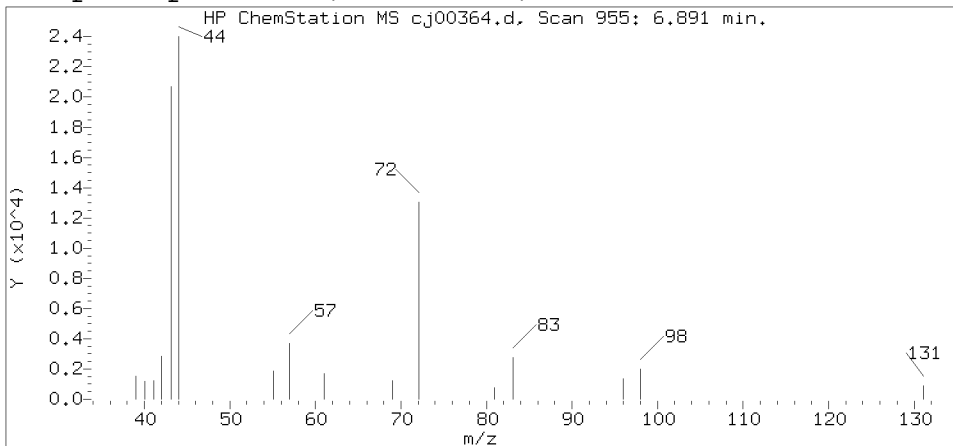
Reference Standard Spectrum for 2-Butanone



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00364.d
 Injection date and time: 17-OCT-2015 02:21

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 21-OCT-2015 16:54
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

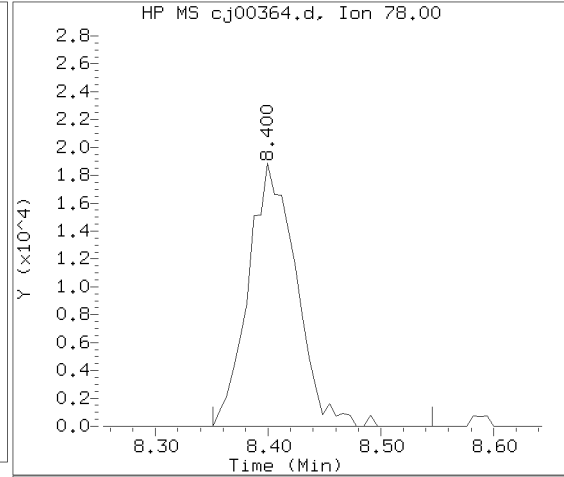
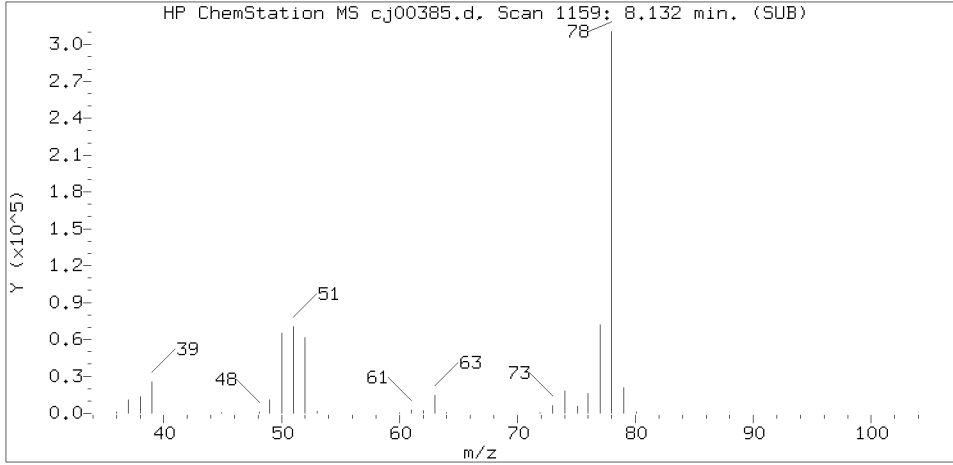
Sample Name: 1011-

Lab Sample ID: 8087711

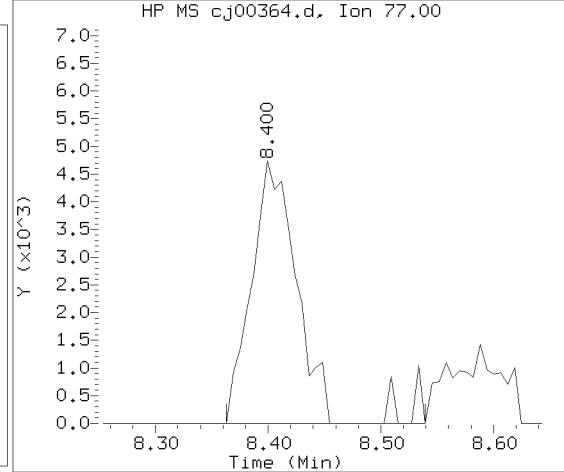
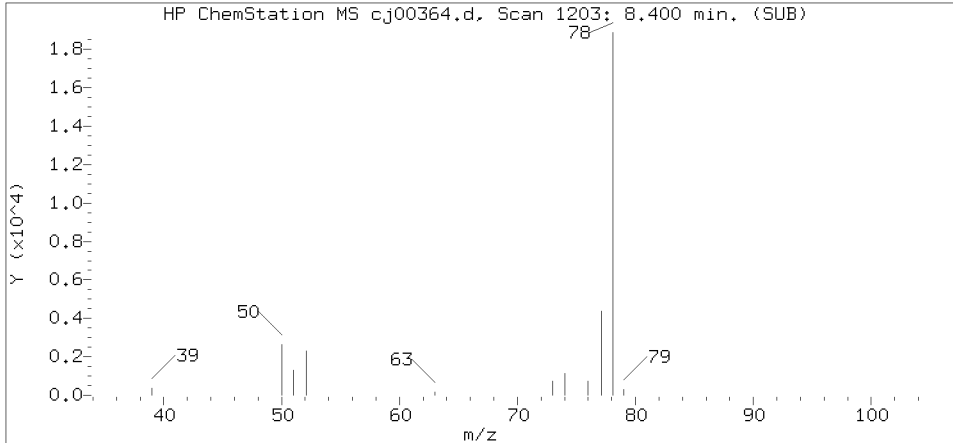
Compound Number : 37
 Compound Name : 2-Butanone
 Scan Number : 955
 Retention Time (minutes): 6.891
 Relative Retention Time : -0.00096
 Quant Ion : 72.00
 Area (flag) : 42087
 Concentration (ppb(v)) : 2.9032

Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:41.
 Target 3.5 esignature user ID: jbs01304

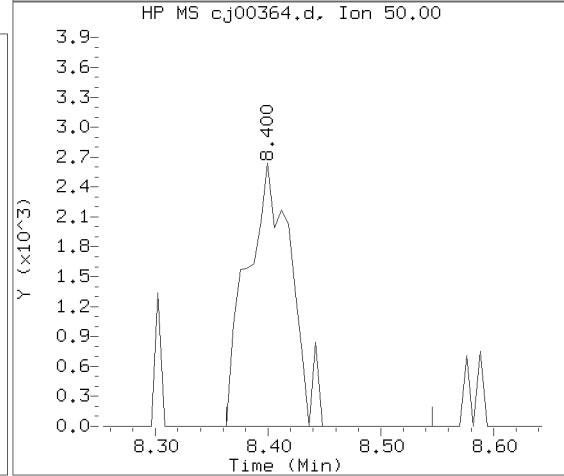
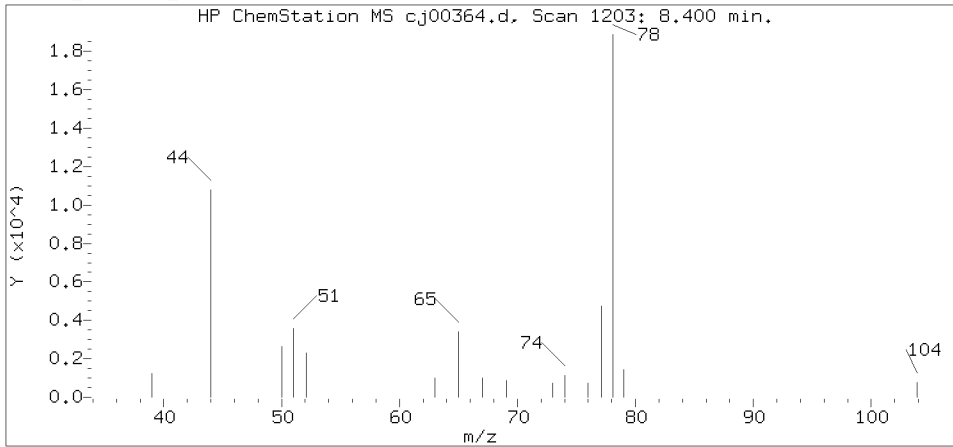
Reference Standard Spectrum for Benzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00364.d
 Injection date and time: 17-OCT-2015 02:21

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 21-OCT-2015 16:54
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

Sample Name: 1011-

Lab Sample ID: 8087711

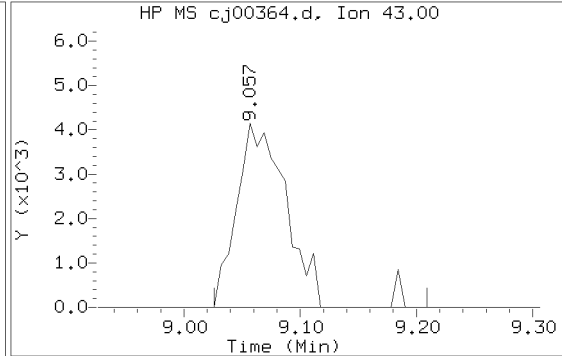
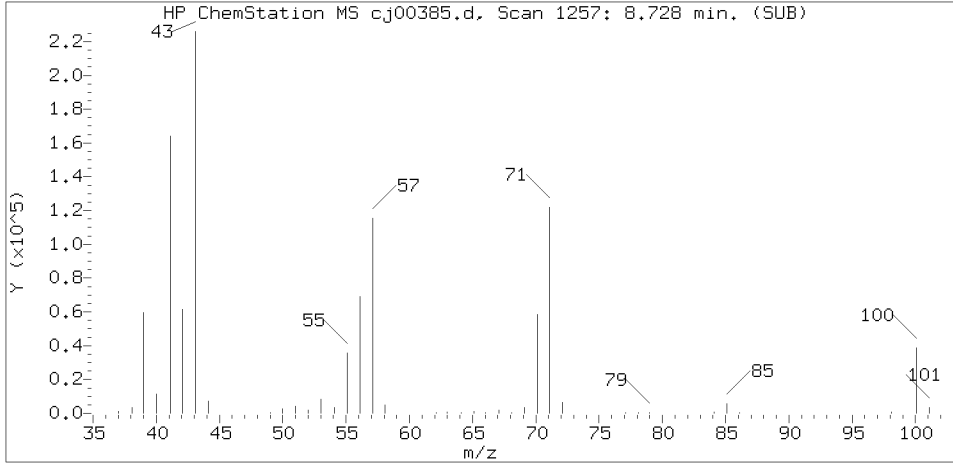
Compound Number : 46
 Compound Name : Benzene
 Scan Number : 1203
 Retention Time (minutes): 8.400
 Relative Retention Time : 0.00054
 Quant Ion : 78.00
 Area (flag) : 55514
 Concentration (ppb(v)) : 0.4574

Sublist used: 292

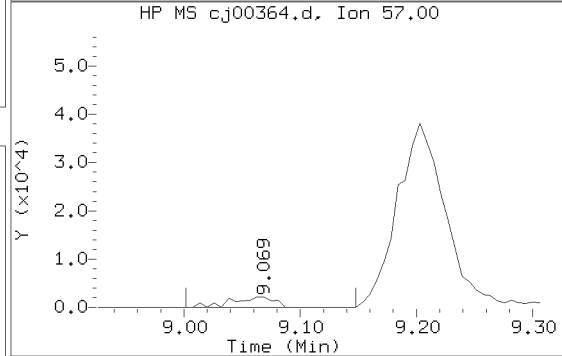
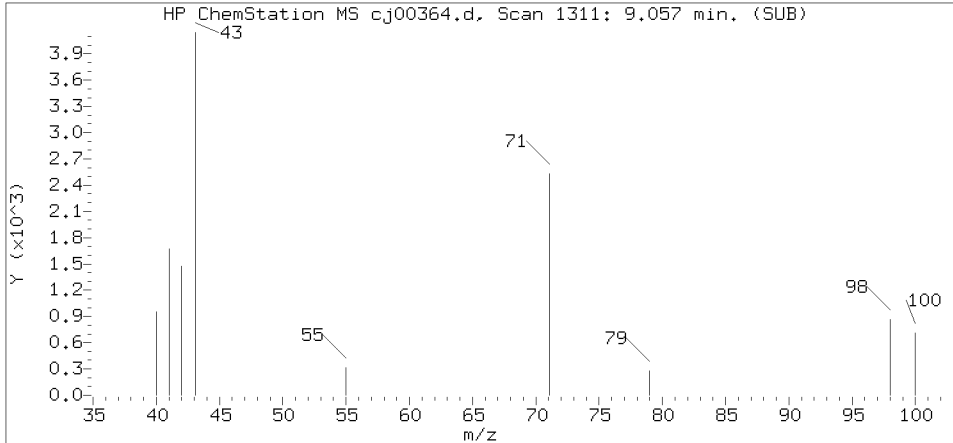
Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:41.

Target 3.5 esignature user ID: jbs01304
 SSX23 Page 116 of 1243

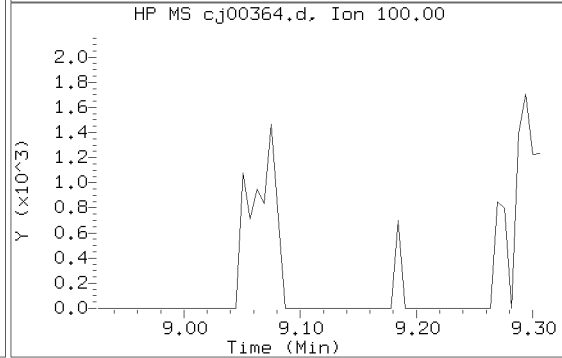
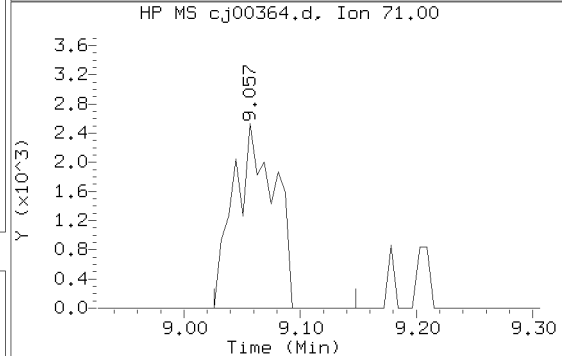
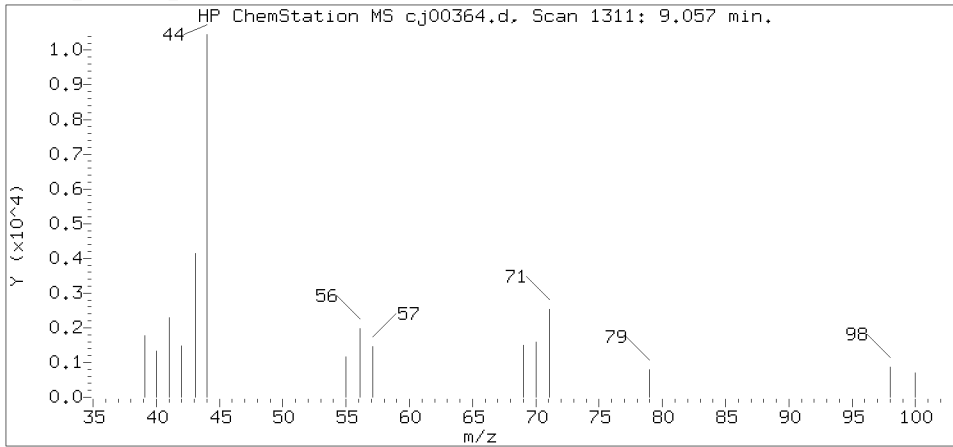
Reference Standard Spectrum for Heptane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00364.d
 Injection date and time: 17-OCT-2015 02:21

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 21-OCT-2015 16:54
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

Sample Name: 1011-

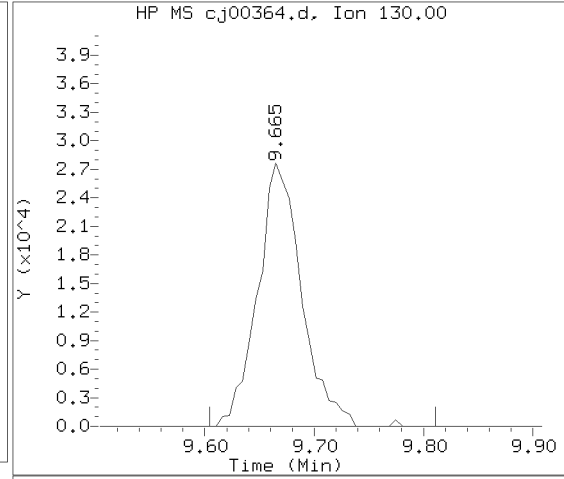
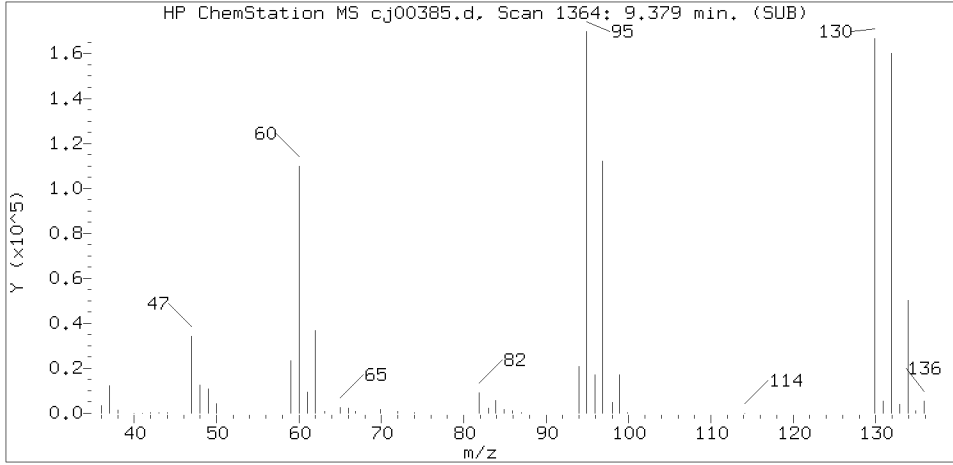
Lab Sample ID: 8087711

Compound Number : 50
 Compound Name : Heptane
 Scan Number : 1311
 Retention Time (minutes): 9.057
 Relative Retention Time : -0.00002
 Quant Ion : 43.00
 Area (flag) : 12382
 Concentration (ppb(v)) : 0.3935

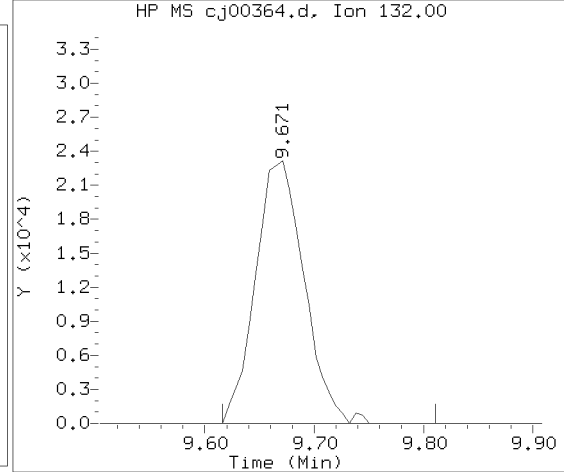
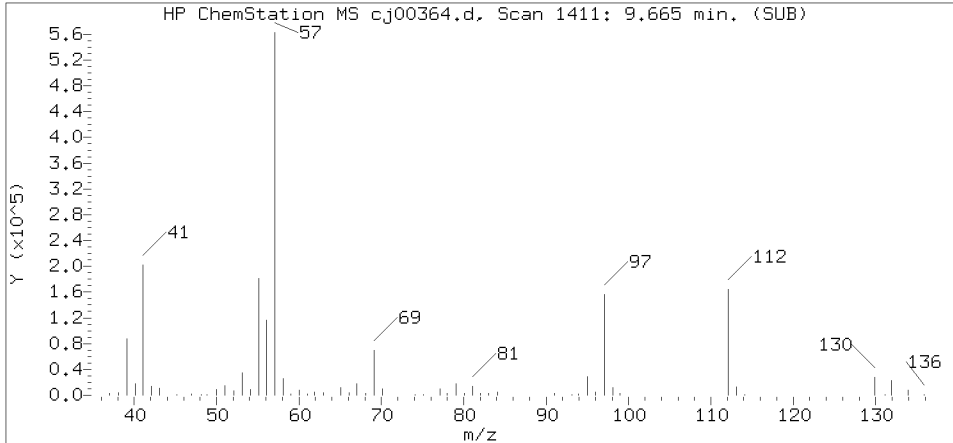
Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:41.

Target 3.5 esignature user ID: jbs01304
 SSX23 Page 117 of 1243

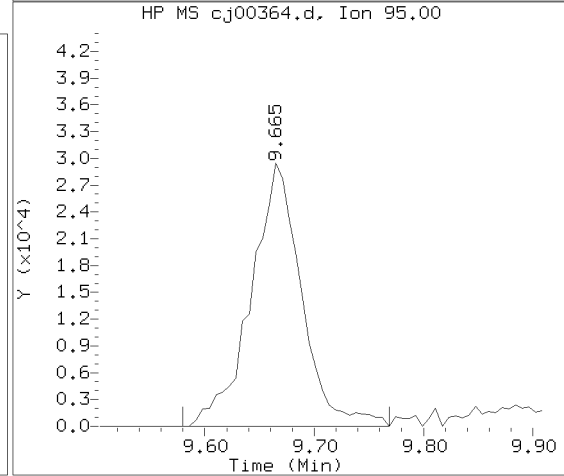
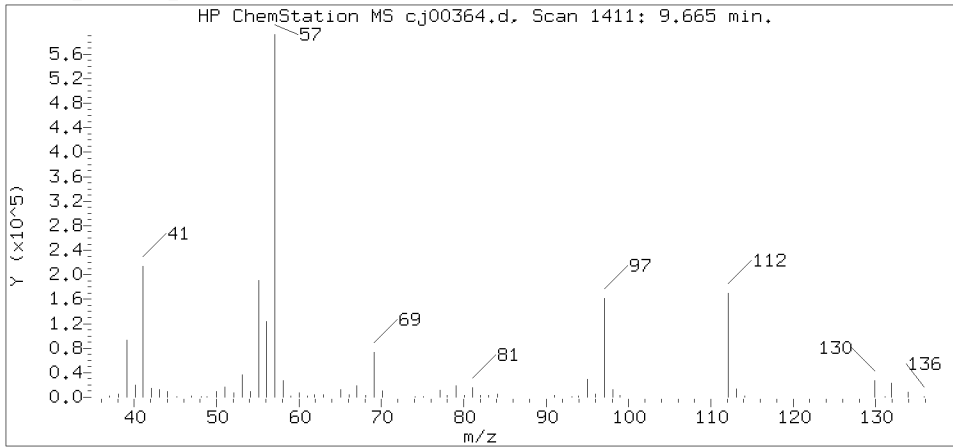
Reference Standard Spectrum for Trichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00364.d
 Injection date and time: 17-OCT-2015 02:21

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 21-OCT-2015 16:54
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

Sample Name: 1011-

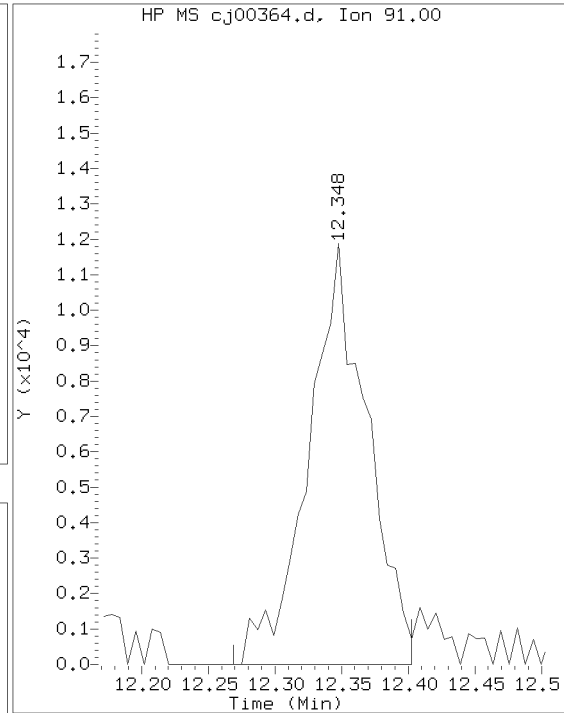
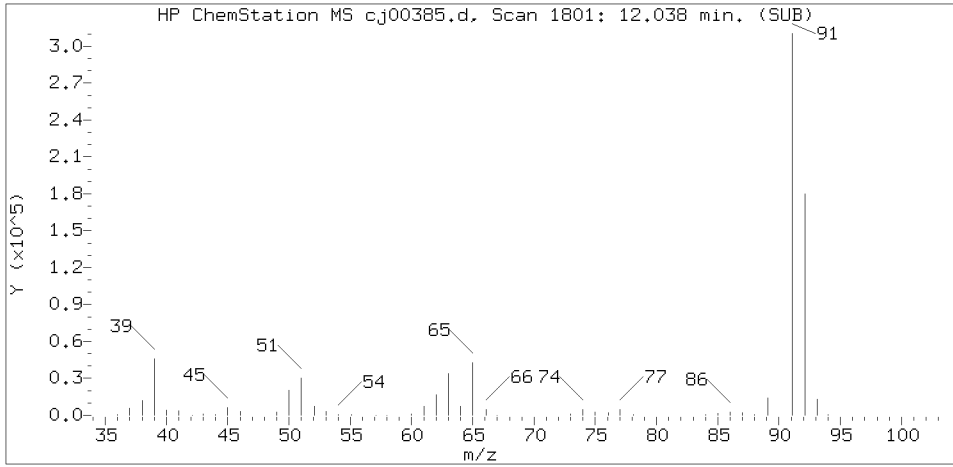
Lab Sample ID: 8087711

Compound Number : 52
 Compound Name : Trichloroethene
 Scan Number : 1411
 Retention Time (minutes): 9.665
 Relative Retention Time : 0.00007
 Quant Ion : 130.00
 Area (flag) : 77374
 Concentration (ppb(v)) : 0.9312

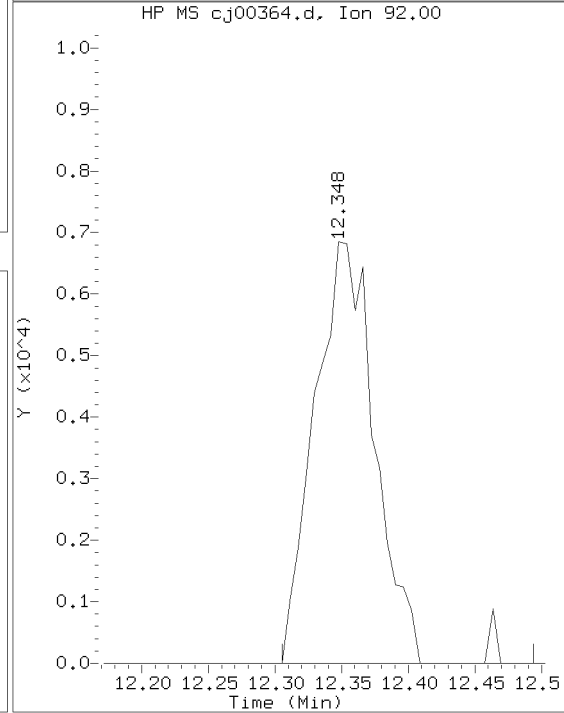
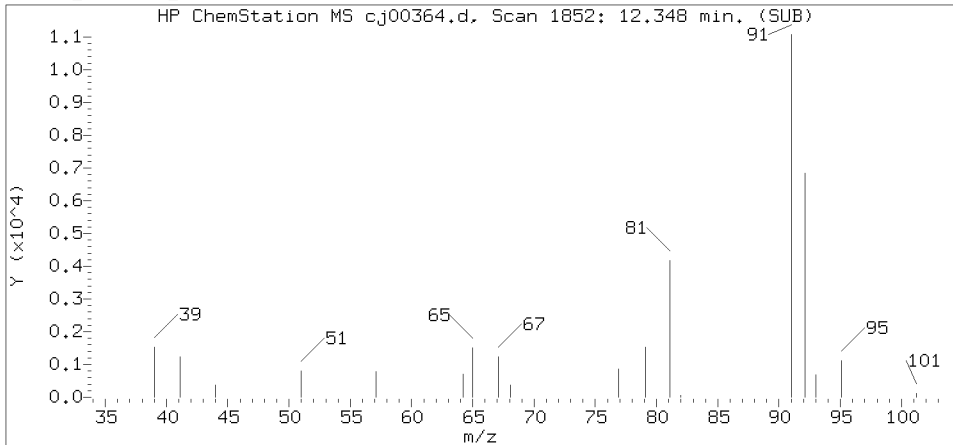
Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:41.

Target 3.5 esignature user ID: jbs01304
 SSX23 Page 118 of 1243

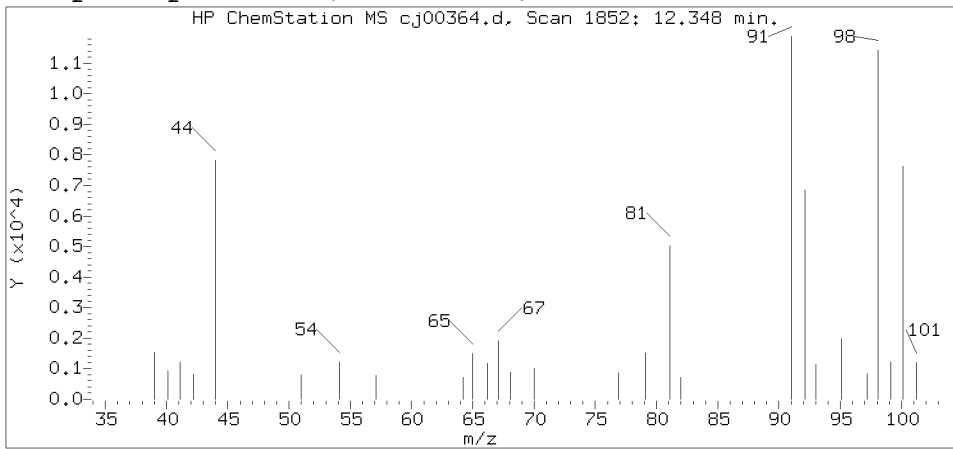
Reference Standard Spectrum for Toluene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00364.d
 Injection date and time: 17-OCT-2015 02:21

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 21-OCT-2015 16:54
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

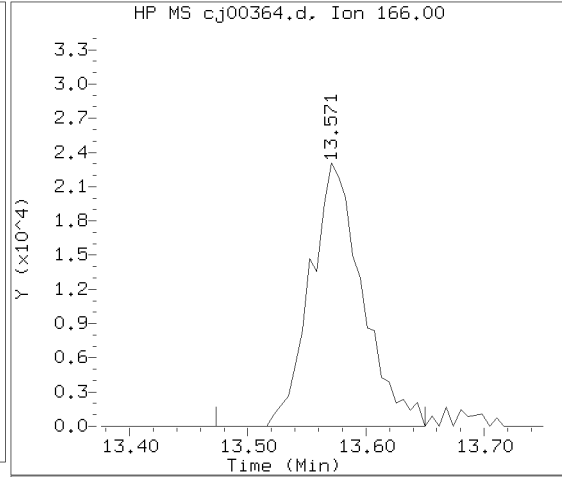
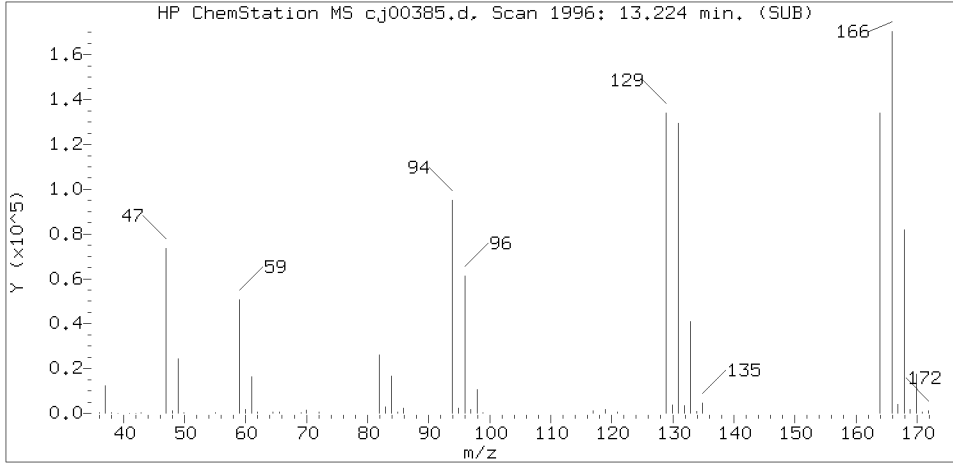
Sample Name: 1011- Lab Sample ID: 8087711

Compound Number : 61
 Compound Name : Toluene
 Scan Number : 1852
 Retention Time (minutes): 12.348
 Relative Retention Time : -0.00008
 Quant Ion : 91.00
 Area (flag) : 36356
 Concentration (ppb(v)) : 0.2396

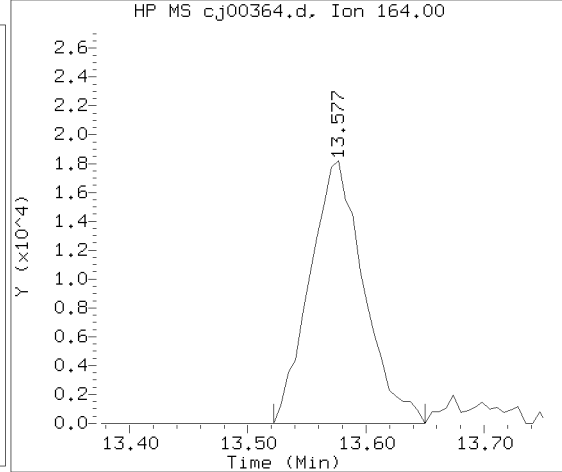
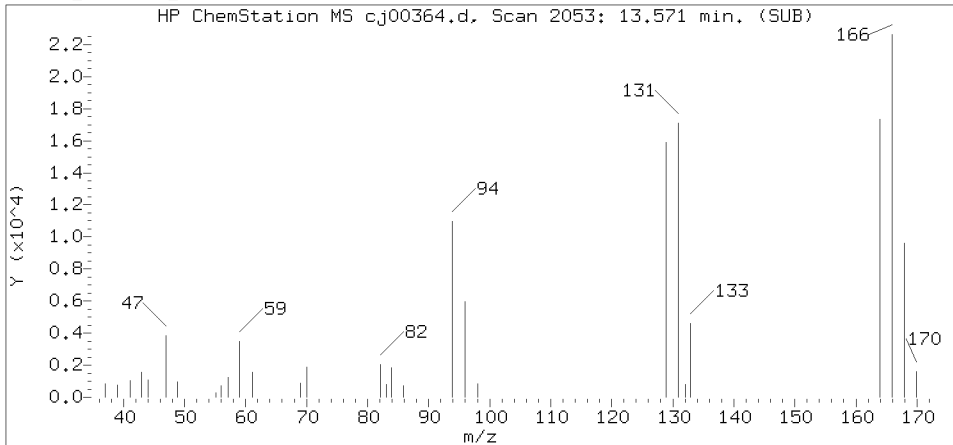
Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:41.

Target 3.5 esignature user ID: jbs01304
 SSX23 Page 119 of 1243

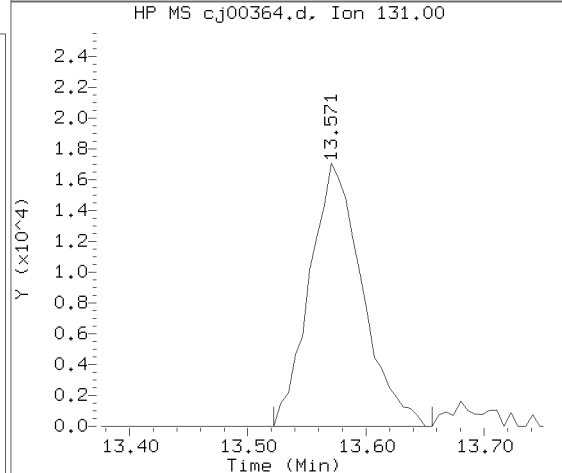
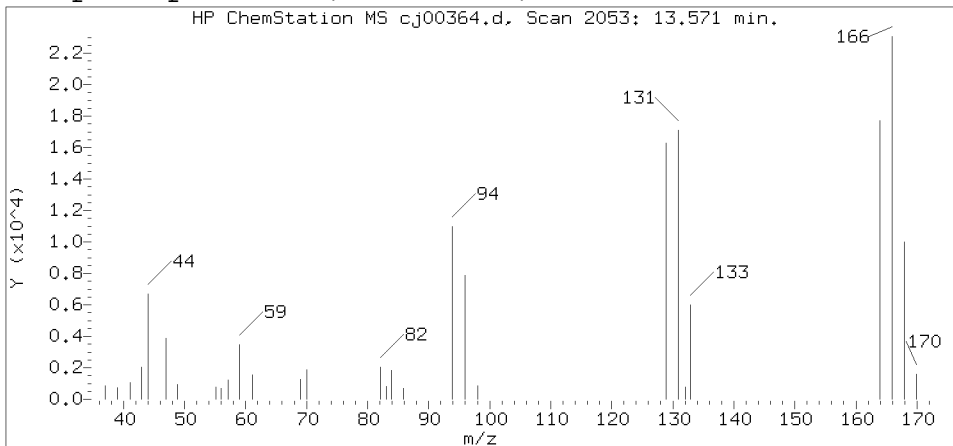
Reference Standard Spectrum for Tetrachloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00364.d
 Injection date and time: 17-OCT-2015 02:21

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 21-OCT-2015 16:54
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

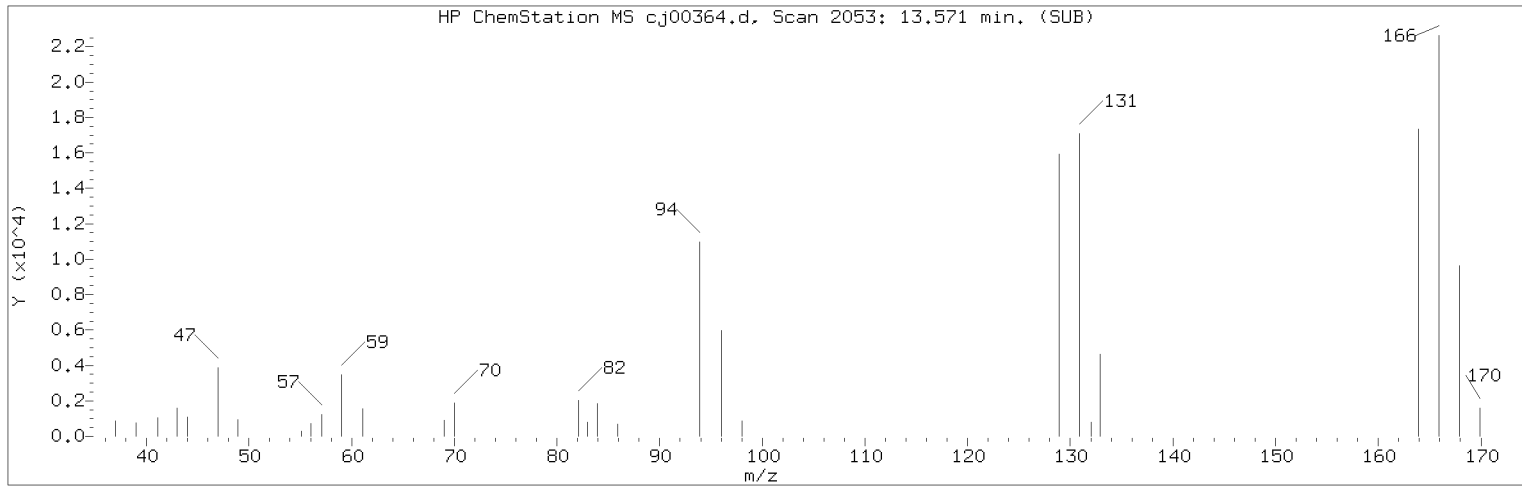
Sublist used: 292

Sample Name: 1011-

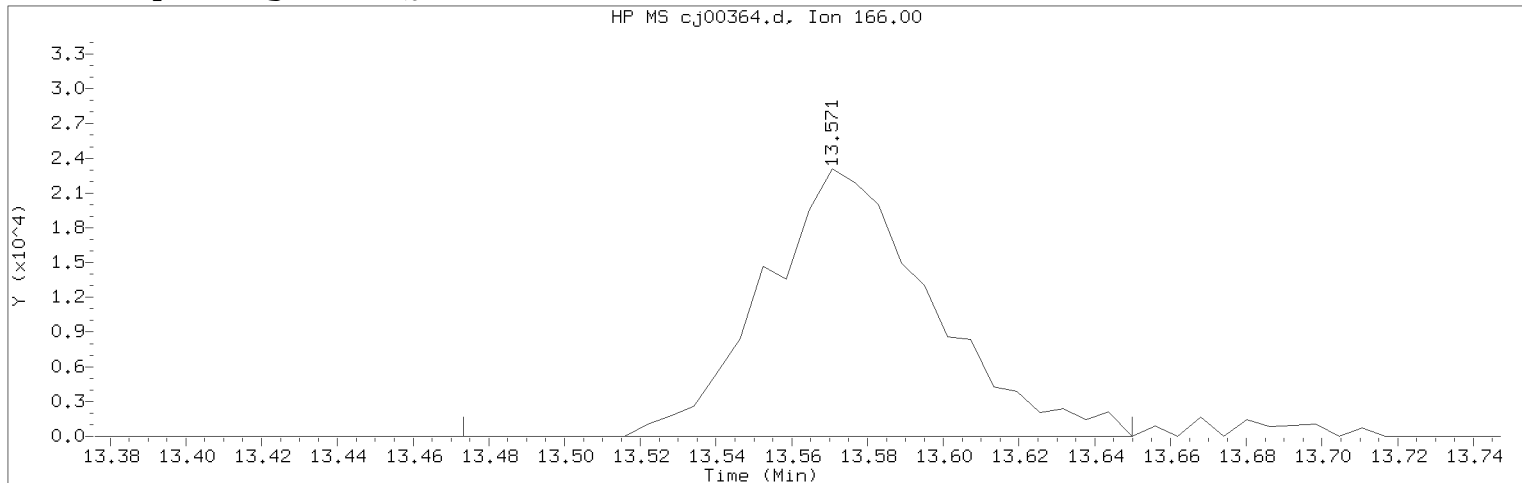
Lab Sample ID: 8087711

Compound Number : 67
 Compound Name : Tetrachloroethene
 Scan Number : 2053
 Retention Time (minutes): 13.571
 Relative Retention Time : 0.00034
 Quant Ion : 166.00
 Area (flag) : 70477M
 Concentration (ppb(v)) : 0.5456

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15oct16.b/cj00364.d Instrument ID: HP09464.i
Injection date and time: 17-OCT-2015 02:21 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m Sublist used: 292
Calibration date and time: 21-OCT-2015 16:54
Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

Sample Name: 1011- Lab Sample ID: 8087711

Compound Number : 67
Compound Name : Tetrachloroethene
Scan Number : 2053
Retention Time (minutes): 13.571
Quant Ion : 166.00
Area (flag) : 70477M
Concentration (ppb(v)) : 0.5456
Integration start scan : 2036 Integration stop scan: 2065
Y at integration start : 0 Y at integration end: 0

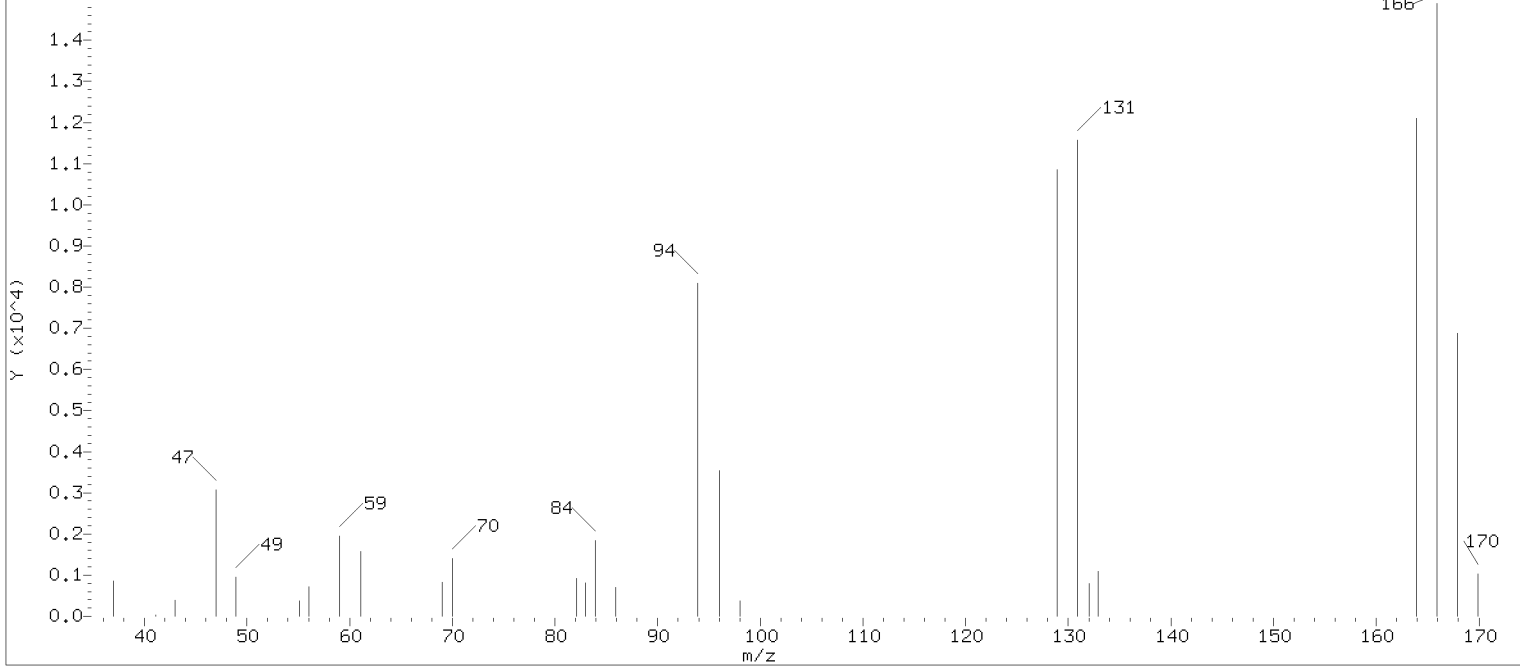
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jeffrey B. Smith
on 10/29/2015 at 11:41.
Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Michele J. Smith on 10/30/2015 at 15:42.
Parallax ID: mjs00758

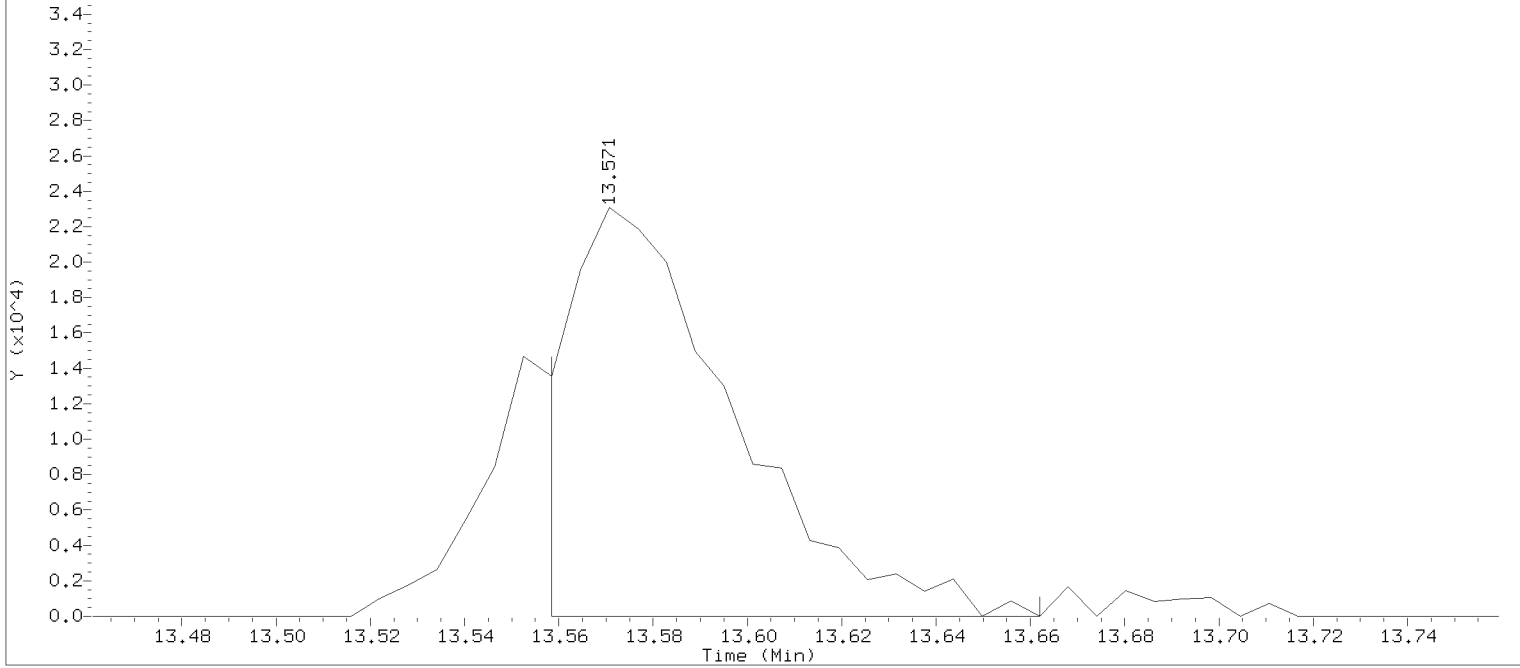
Sample Spectrum (Background Subtracted)

HP ChemStation MS cj00364.d, Scan 2053: 13.571 min. (SUB)



Original Integration of Quant Ion

HP MS cj00364.d, Ion 166.00



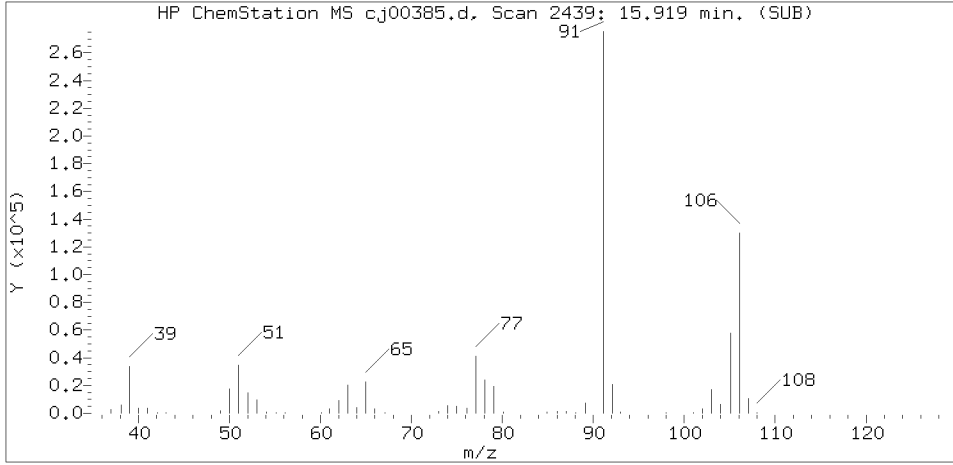
Data File: /chem/HP09464.i/15oct16.b/cj00364.d Instrument ID: HP09464.i
Injection date and time: 17-OCT-2015 02:21 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m Sublist used: 292
Calibration date and time: 16-OCT-2015 16:10
Date, time and analyst ID of latest file update: 17-Oct-2015 03:01 Automation

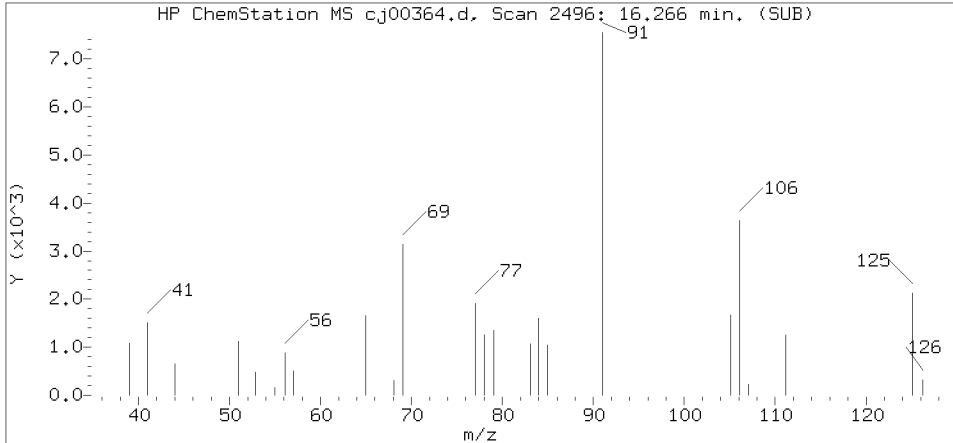
Sample Name: 1011- Lab Sample ID: 8087711

Compound Number : 67
Compound Name : Tetrachloroethene
Scan Number : 2053
Retention Time (minutes): 13.571
Quant Ion : 166.00
Area : 55900
Concentration (ppb(v)) : 0.4328
Integration start scan : 2050 Integration stop scan: 2067
Y at integration start : 0 Y at integration end: 0

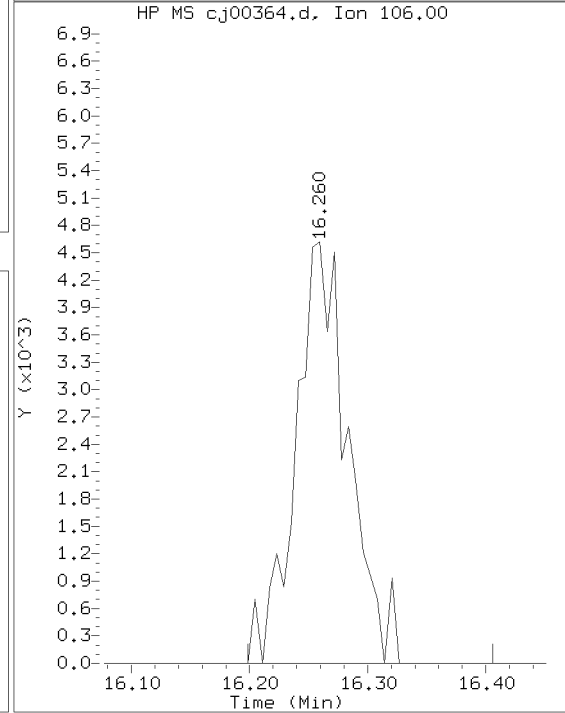
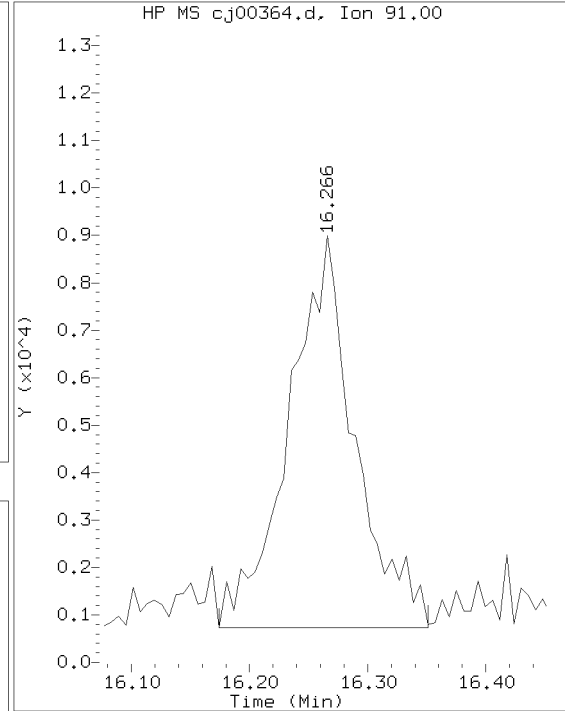
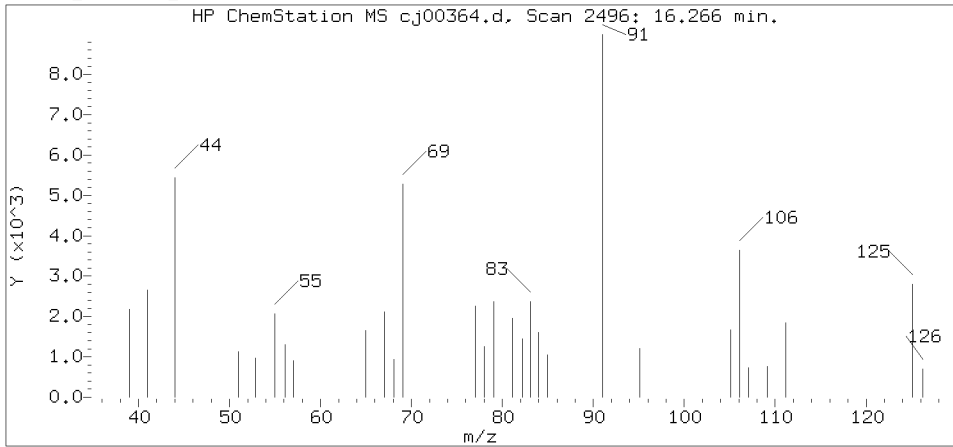
Reference Standard Spectrum for m/p-Xylene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00364.d
 Injection date and time: 17-OCT-2015 02:21

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 21-OCT-2015 16:54
 Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

Sample Name: 1011-

Lab Sample ID: 8087711

Compound Number : 75
 Compound Name : m/p-Xylene
 Scan Number : 2496
 Retention Time (minutes): 16.266
 Relative Retention Time : 0.00002
 Quant Ion : 91.00
 Area (flag) : 32167
 Concentration (ppb(v)) : 0.2321

Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:41.

Target 3.5 esignature user ID: jbs01304
 SSX23 Page 123 of 1243

SDG No.:

Sample Media:	CANISTER	Lab Sample ID:	8087711
Canister ID:	1011	Lab File ID:	cj00364.d
Pressure Received:	27.8 psia	Date Collected:	10/09/2015
Final Pressure:	13.9 psia	Date Received:	10/14/2015
Nominal Volume:	250 cc	Analyzed Date:	10/17/2015
Injection Volume:	500 cc	Analyzed Time:	02:21
Instrument ID:	09464	Dilution Factor:	1

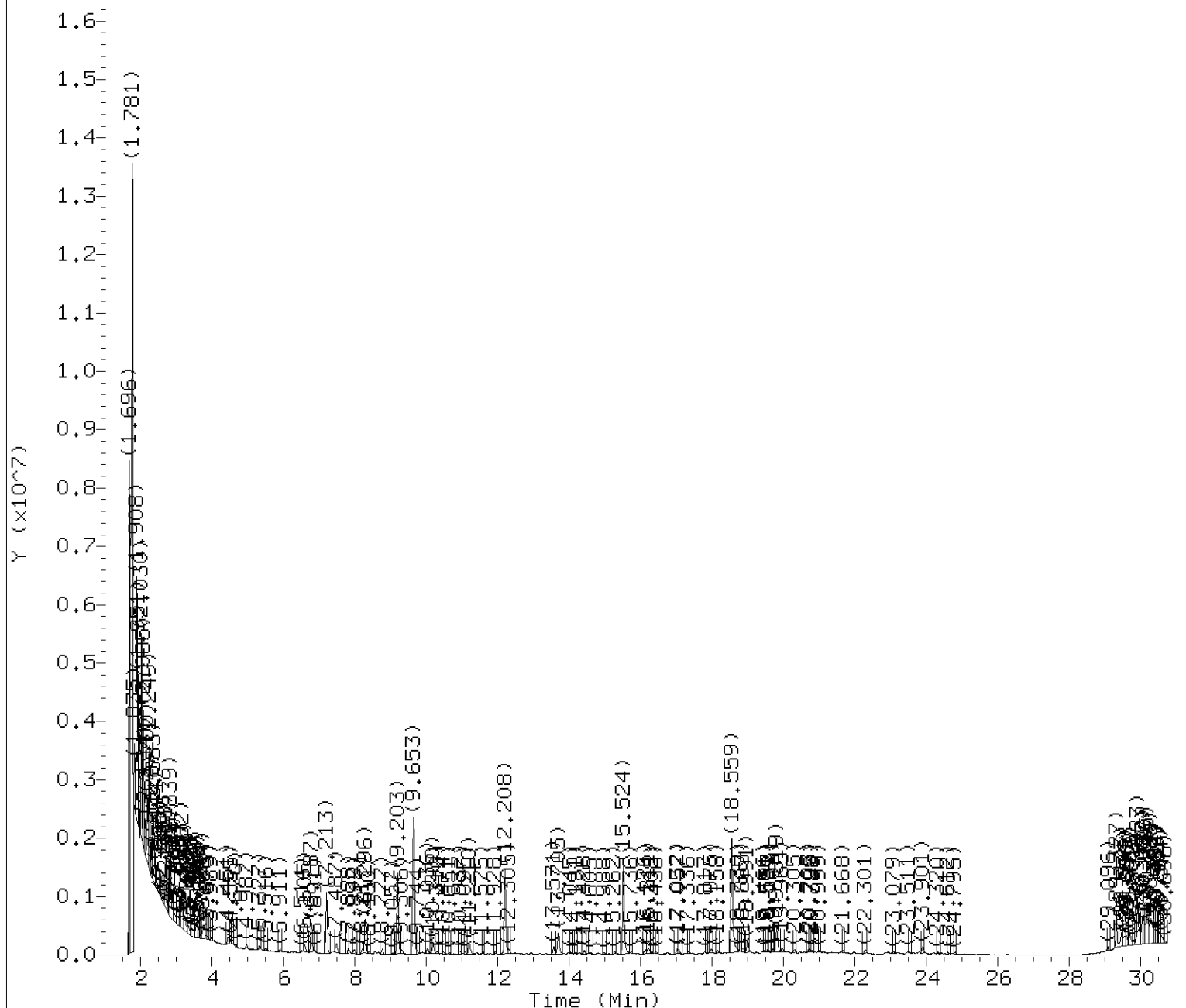
Number TICs Found: 12

Concentration Units: ppb(v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
	Unknown	1.78	150	J
	Unknown	1.84	5	J
	Unknown	1.91	35	J
	Unknown	1.95	14	J
75-28-5	Isobutane	2.03	19	J
75-28-5	Isobutane	2.08	13	J
	Unknown	2.13	4	J
	Unknown	2.20	10	J
	Unknown	2.25	14	J
	Unknown	2.38	10	J
78-78-4	Butane, 2-methyl-	2.84	12	J
541-05-9	Cyclotrisiloxane, hexamethyl-	13.70	3	J
TOTVOATIC	Total Tics		290	J

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
J = The result is between the MDL and LOQ.



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00364.d
Injection date and time: 17-OCT-2015 02:21

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
Calibration date and time: 21-OCT-2015 16:54

Sublist used: 292

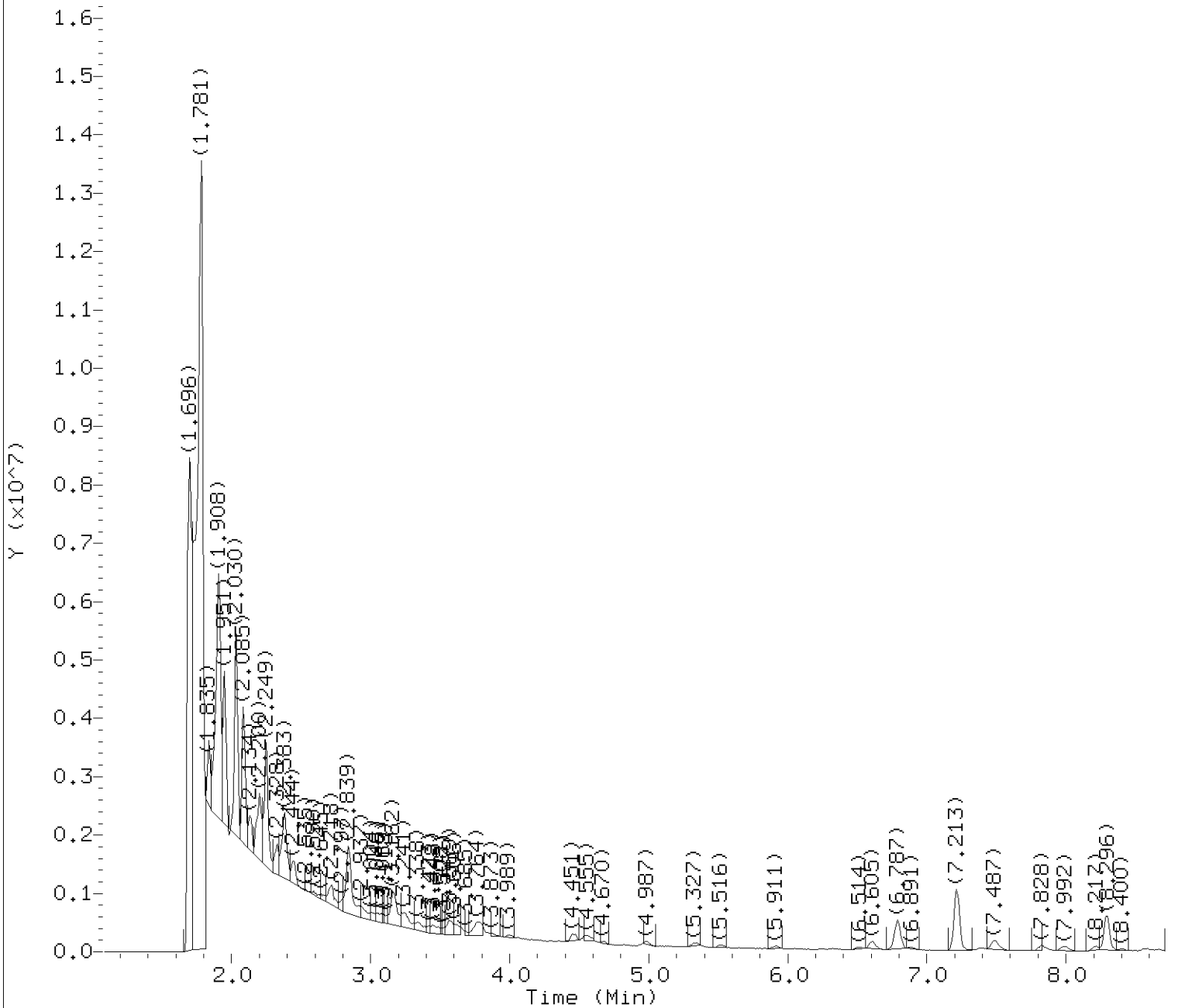
Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

Sample Name: 1011-

Lab Sample ID: 8087711

Chromatogram Start Time (min.): 1.087
Chromatogram End Time (min.): 30.751

Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:36.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00364.d
Injection date and time: 17-OCT-2015 02:21

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
Calibration date and time: 21-OCT-2015 16:54
Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

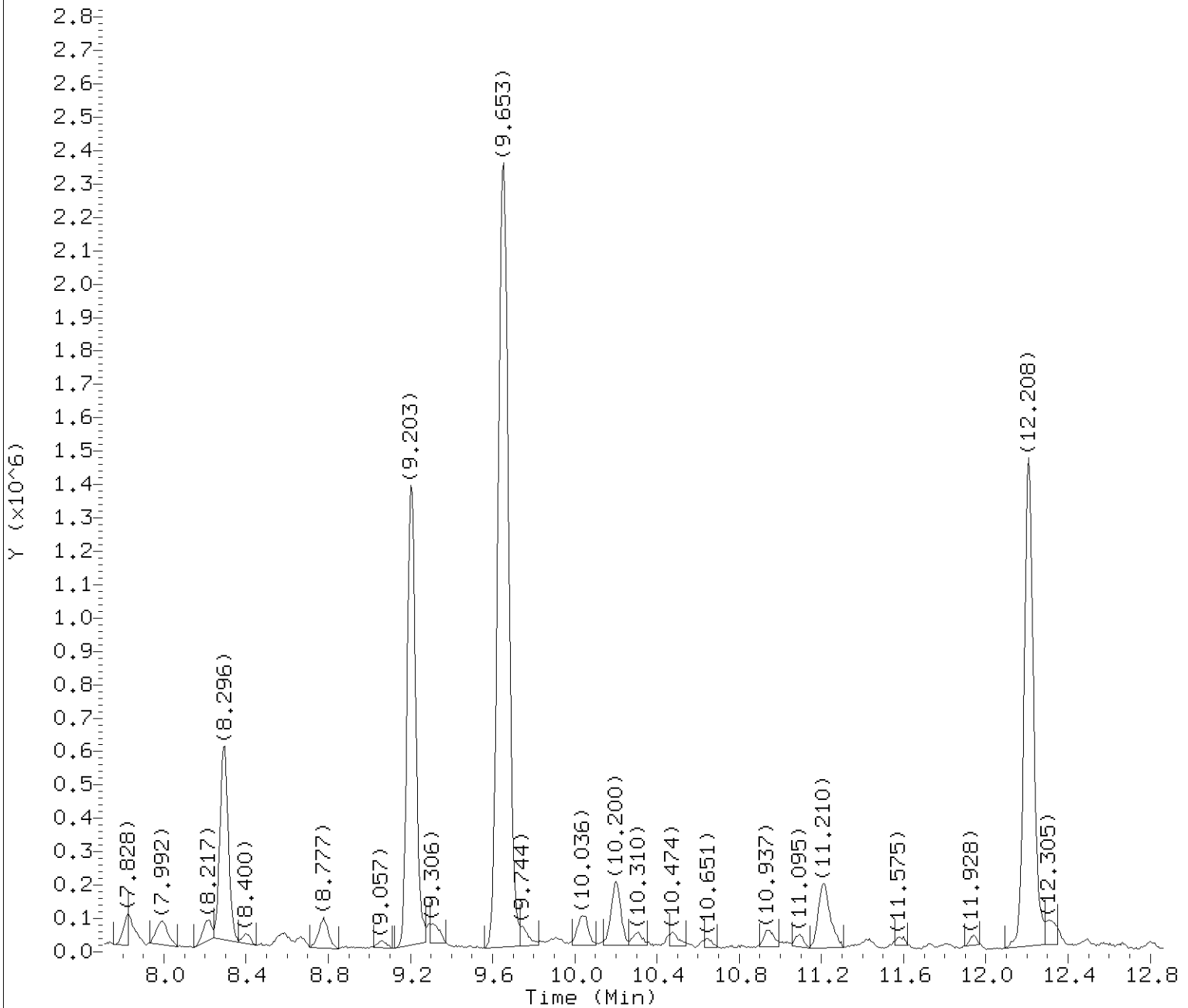
Sublist used: 292

Sample Name: 1011-

Lab Sample ID: 8087711

Internal Standard referenced: Bromochloromethane at 7.219 minutes
Chromatogram Start Time (min.): 1.087
Chromatogram End Time (min.): 8.211

Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:36.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00364.d
Injection date and time: 17-OCT-2015 02:21

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
Calibration date and time: 21-OCT-2015 16:54

Sublist used: 292

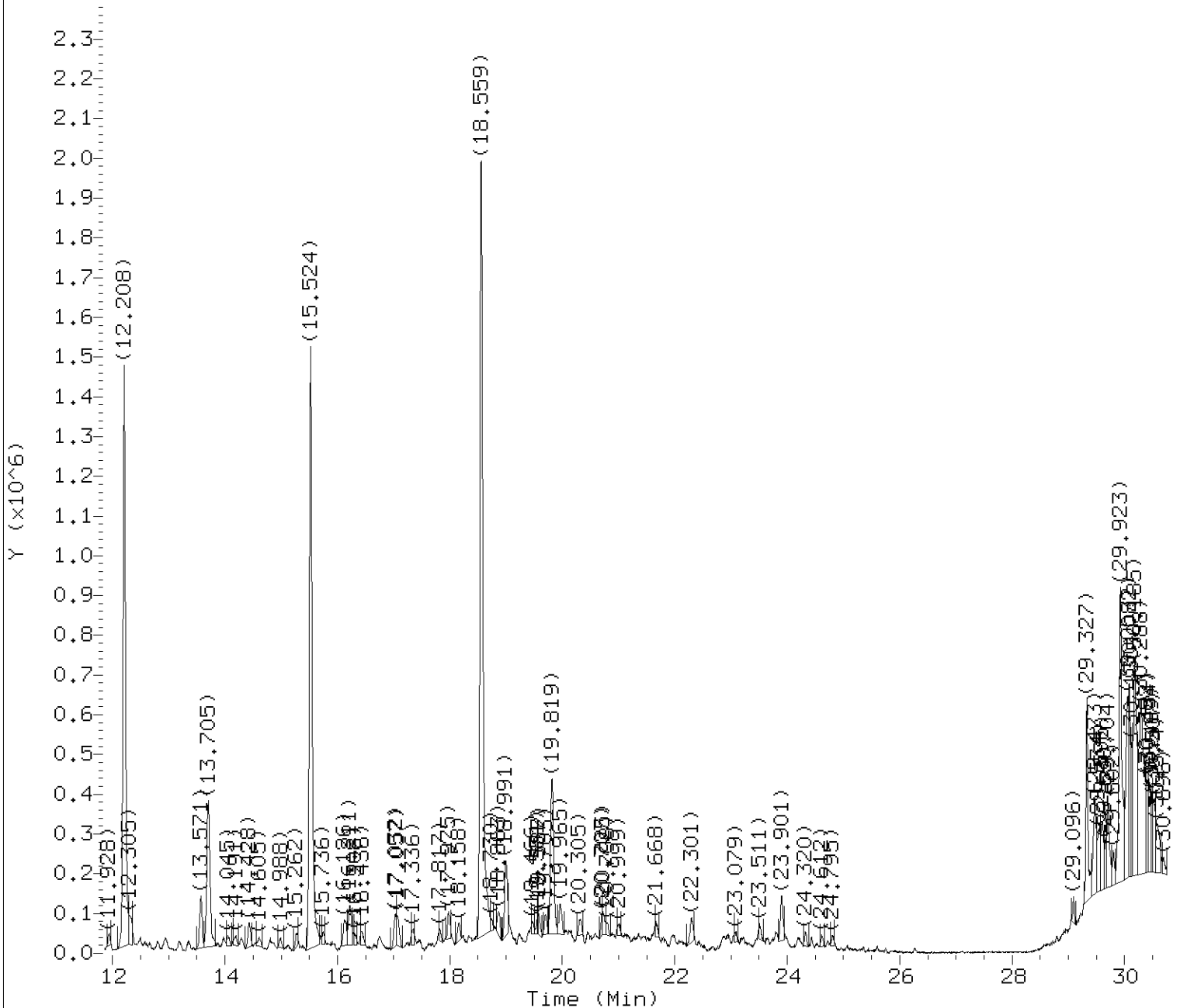
Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

Sample Name: 1011-

Lab Sample ID: 8087711

Internal Standard referenced: 1,4-Difluorobenzene at 9.203 minutes
Chromatogram Start Time (min.): 8.211
Chromatogram End Time (min.): 12.363

Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:36.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00364.d
Injection date and time: 17-OCT-2015 02:21

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
Calibration date and time: 21-OCT-2015 16:54
Date, time and analyst ID of latest file update: 26-Oct-2015 14:29 jbs01304

Sublist used: 292

Sample Name: 1011-

Lab Sample ID: 8087711

Internal Standard referenced: Chlorobenzene-d5 at 15.524 minutes
Chromatogram Start Time (min.): 12.363
Chromatogram End Time (min.): 30.751

Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:36.
Target 3.5 esignature user ID: jbs01304

Lancaster Laboratories, Inc.

Data file : /chem/HP09464.i/15oct16.b/cj00364.d
Lab Smp Id: 8087711 Client Smp ID: 1011-
Inj Date : 17-OCT-2015 02:21
Operator : jeb07445 Inst ID: HP09464.i
Smp Info : 8087711;500;C1528830AB;1011-;0;0;SAMPLE;
Misc Info : cj00353;292.sub;250;13.9139;27.8278;1011;
Comment :
Method : /chem/HP09464.i/15oct16.b/to-15.m
Meth Date : 26-Oct-2015 14:20 jbs01304 Quant Type: ISTD
Cal Date : 16-OCT-2015 04:03 Cal File: cj00329.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 292.sub
Target Version: 3.50
Processing Host: d30cs01

Concentration Formula: Amt * DF * (Xa/Ya)*(IVn/IVa) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Xa	27.82780	canister pressure absolute after dilutio
Ya	13.91390	canister pressure absolute before diluti
IVn	250.00000	nominal injection volume
IVa	500.00000	actual injection volume

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 40 Bromochloromethane	7.219	3013038	10.000
* 71 Chlorobenzene-d5	15.524	5460667	10.000

RT	CONCENTRATIONS				QUANT		
	AREA	ON-COL(ppb(v))	FINAL(ppb(v))	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	=====	=====	====	=====	=====	=====
Unknown				CAS #:			
1.781	46071870	152.908328	152.9083278	0		0	40

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL(ppb(v))	FINAL(ppb(v))		LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====
Unknown					CAS #:		
1.835	1583698	5.25615008	5.256150	0		0	40
Unknown					CAS #:		
1.908	10637104	35.3035756	35.30357559	0		0	40
Unknown					CAS #:		
1.951	4324294	14.3519361	14.35193611	0		0	40
Isobutane					CAS #: 75-28-5		
2.030	5812177	19.2900828	19.29008281	22	NIST11.1	237	40
Isobutane					CAS #: 75-28-5		
2.085	4034742	13.3909395	13.39093954	45	NIST11.1	235	40
Unknown					CAS #:		
2.134	1117268	3.70810875	3.708109	0		0	40
Unknown					CAS #:		
2.200	2946664	9.77970929	9.779709	0		0	40
Unknown					CAS #:		
2.249	4363557	14.4822464	14.48224640	0		0	40
Unknown					CAS #:		
2.383	3045121	10.1064775	10.10647751	0		0	40
Butane, 2-methyl-					CAS #: 78-78-4		
2.839	3573088	11.8587537	11.85875367	59	NIST11.1	713	40
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
13.705	1474406	2.70004653	2.700047	90	NIST11.1	79617	71

Date : 17-OCT-2015 02:21

Client ID: 1011-

Instrument: HP09464.i

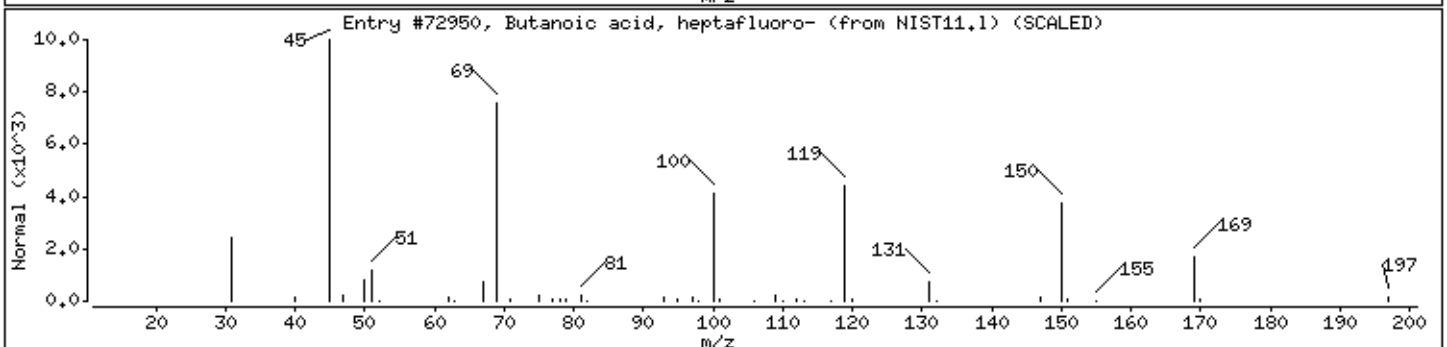
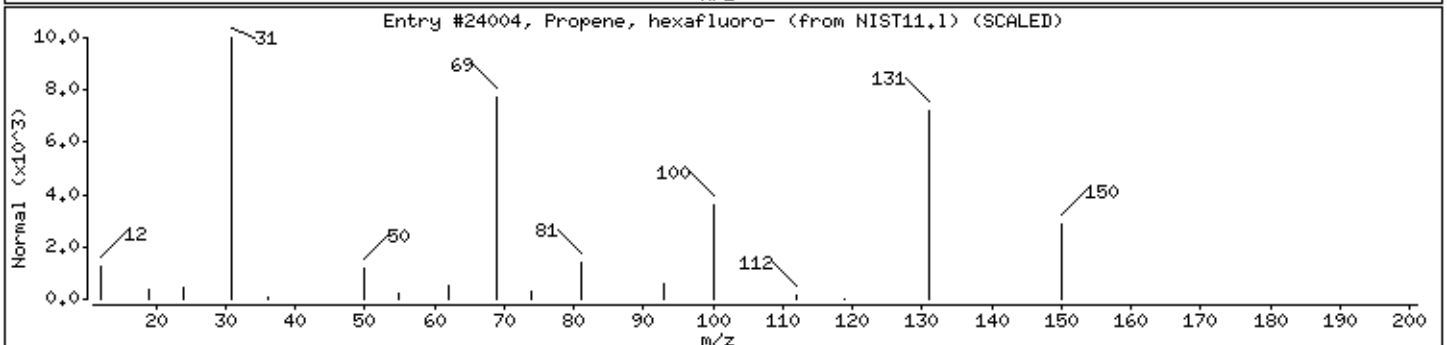
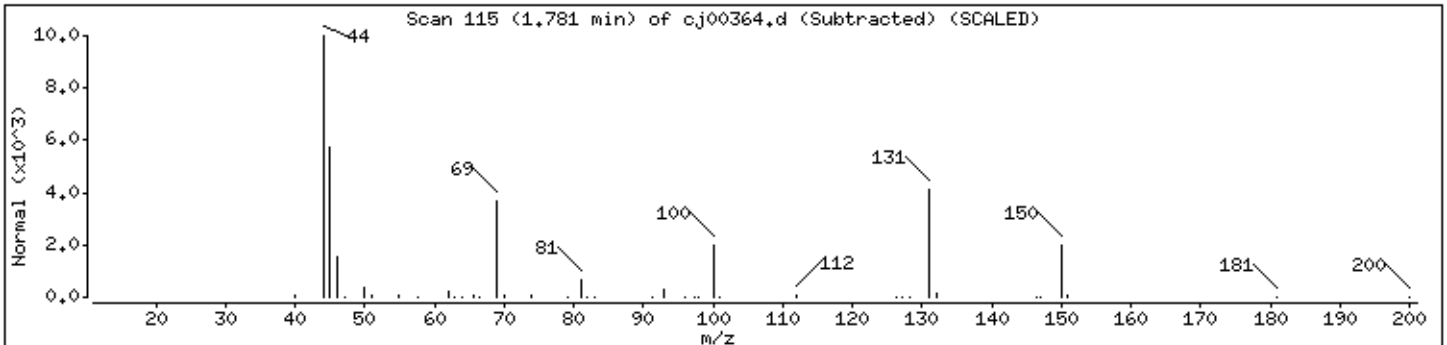
Sample Info: 8087711;500;C1528830AB;1011-;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propene, hexafluoro-	116-15-4	NIST11.1	24004	22	C3F6	150
Butanoic acid, heptafluoro-	375-22-4	NIST11.1	72950	10	C4HF7O2	214



Date : 17-OCT-2015 02:21

Client ID: 1011-

Instrument: HP09464.i

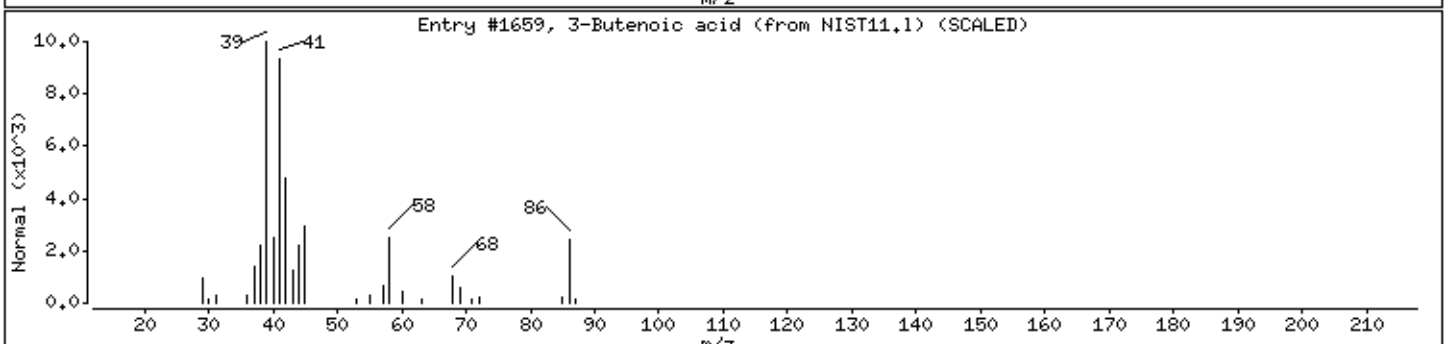
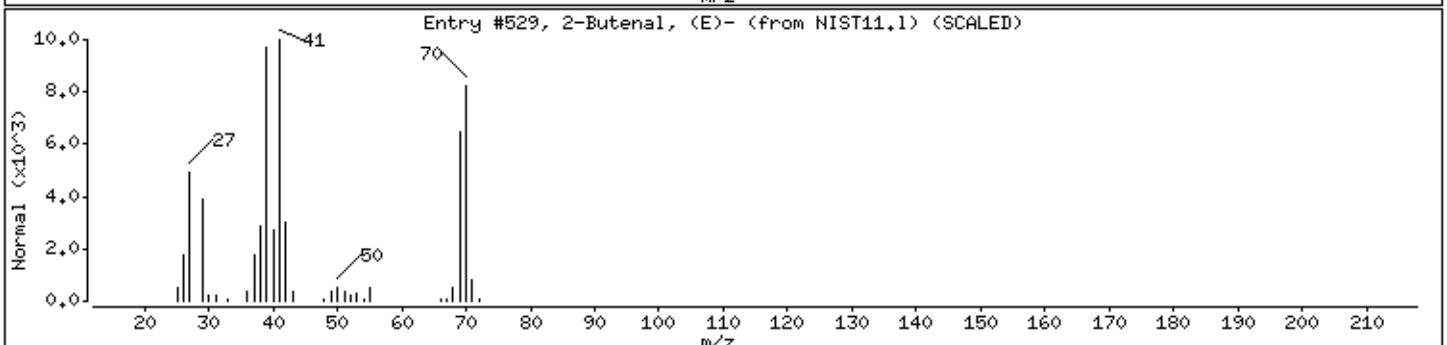
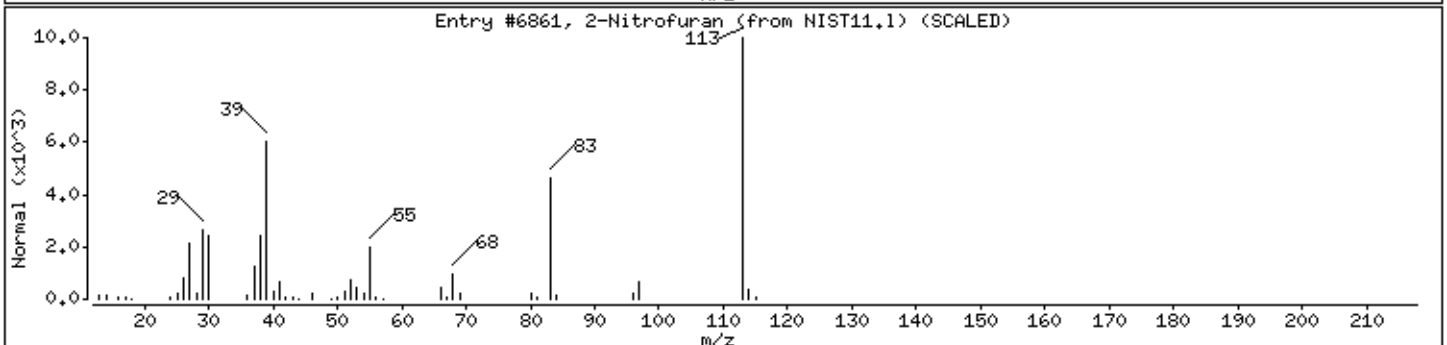
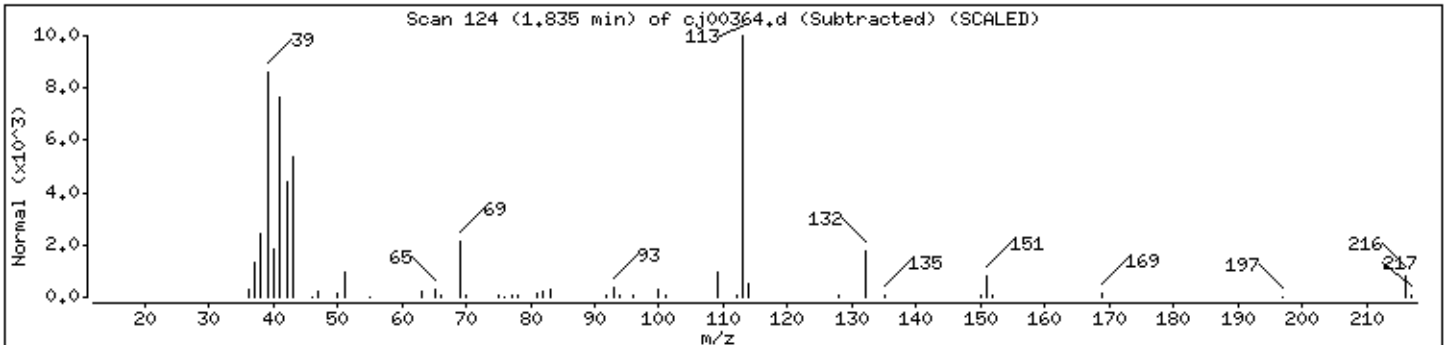
Sample Info: 8087711;500;C1528830AB;1011-;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Nitrofurran	609-39-2	NIST11.1	6861	80	C4H3NO3	113
2-Butenal, (E)-	123-73-9	NIST11.1	529	59	C4H6O	70
3-Butenoic acid	625-38-7	NIST11.1	1659	50	C4H6O2	86



Date : 17-OCT-2015 02:21

Client ID: 1011-

Instrument: HP09464.i

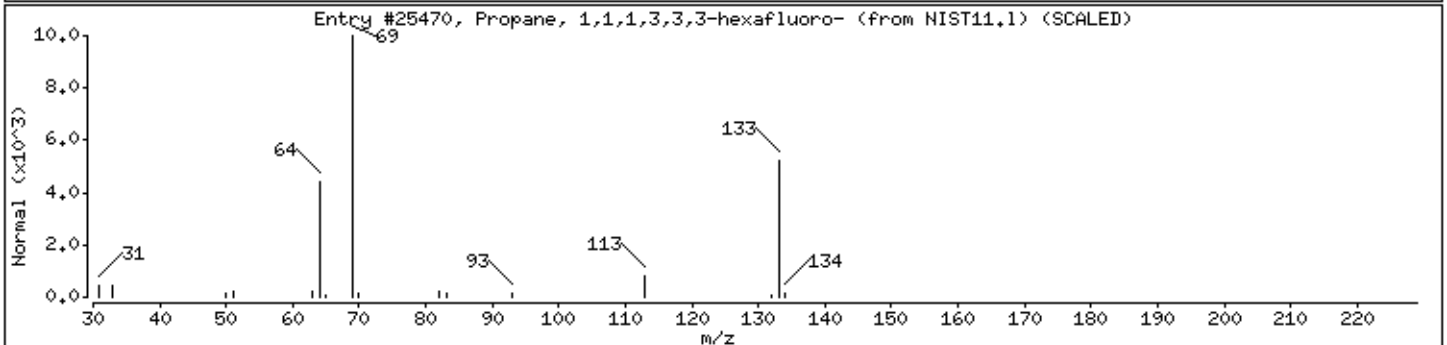
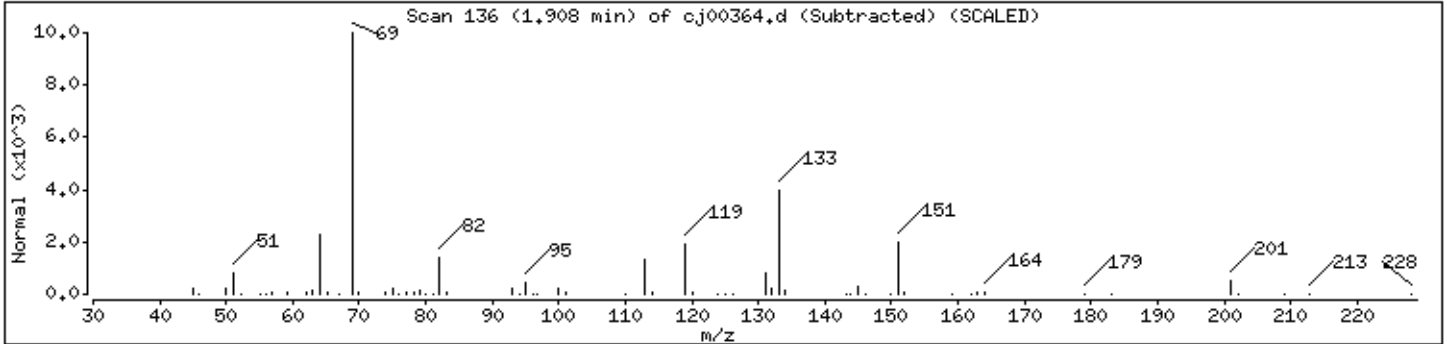
Sample Info: 8087711;500;C1528830AB;1011-;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Propane, 1,1,1,3,3,3-hexafluoro-	690-39-1	NIST11.1	25470	28	C3H2F6	152



Date : 17-OCT-2015 02:21

Client ID: 1011-

Instrument: HP09464.i

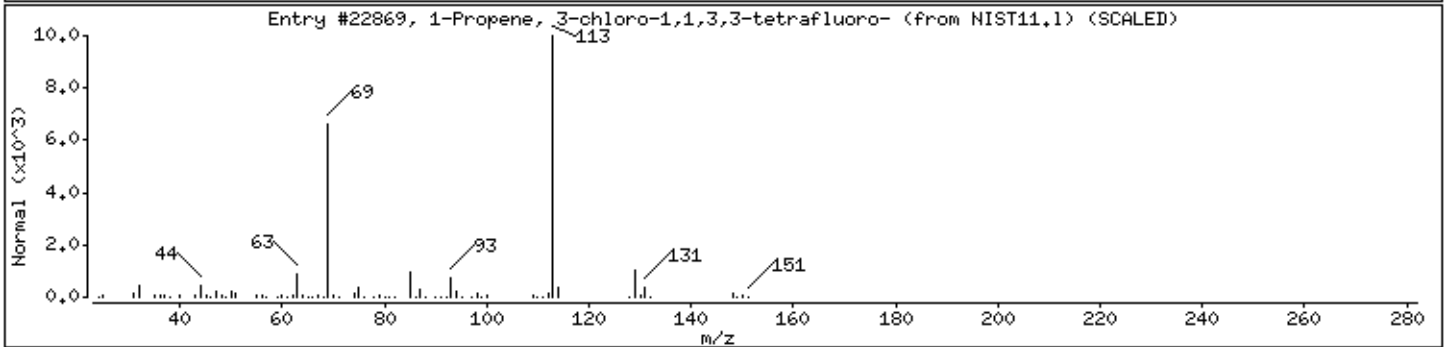
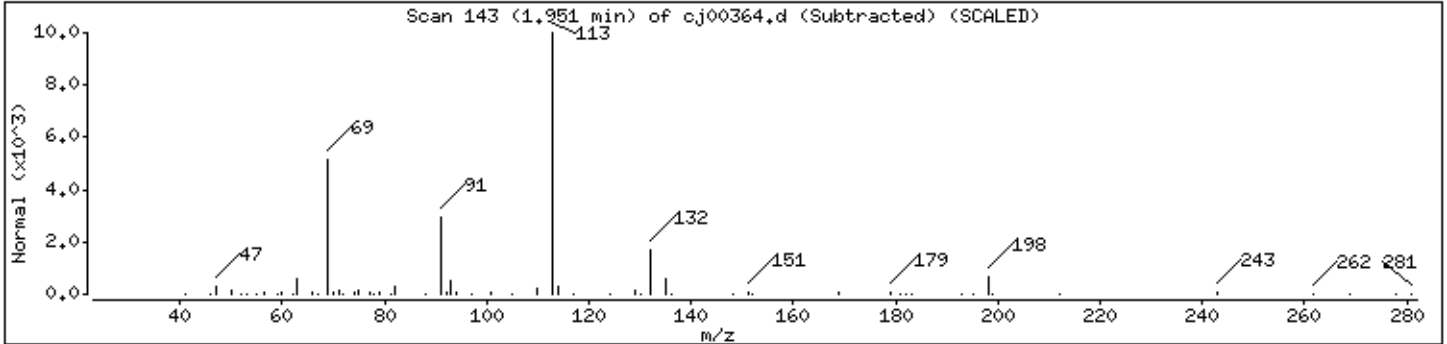
Sample Info: 8087711;500;C1528830AB;1011-;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Propene, 3-chloro-1,1,3,3-tetrafluoro-	406-46-2	NIST11.1	22869	38	C3HC1F4	148



Date : 17-OCT-2015 02:21

Client ID: 1011-

Instrument: HP09464.i

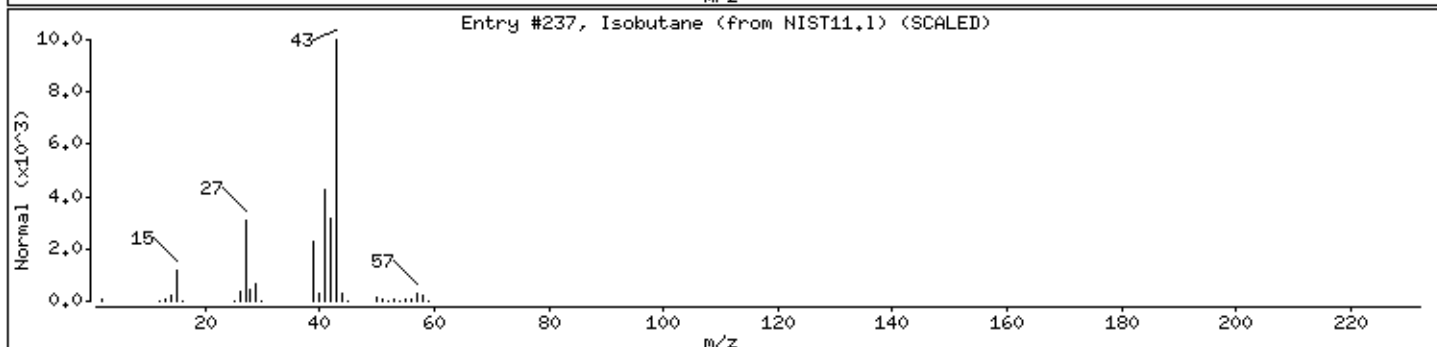
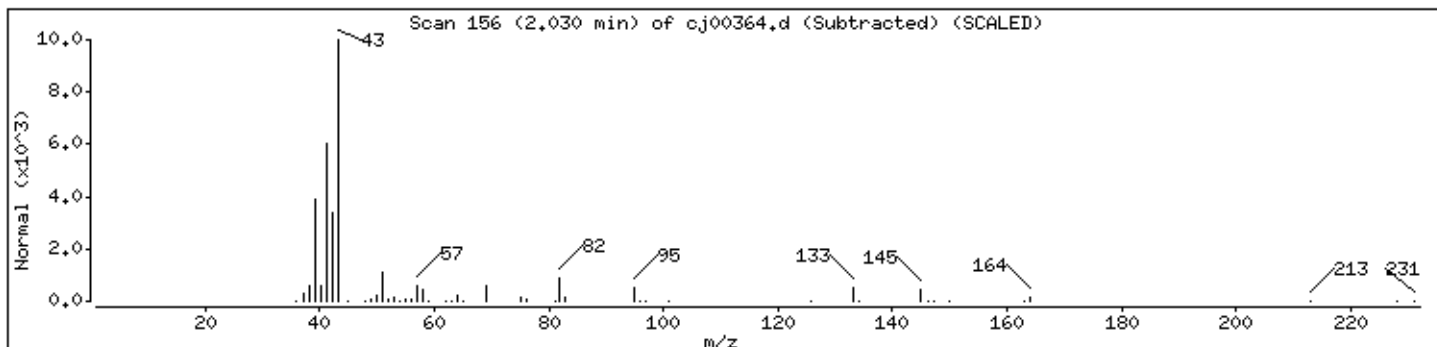
Sample Info: 8087711;500;C1528830AB;1011-;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Isobutane	75-28-5	NIST11.1	237	22	C4H10	58



Date : 17-OCT-2015 02:21

Client ID: 1011-

Instrument: HP09464.i

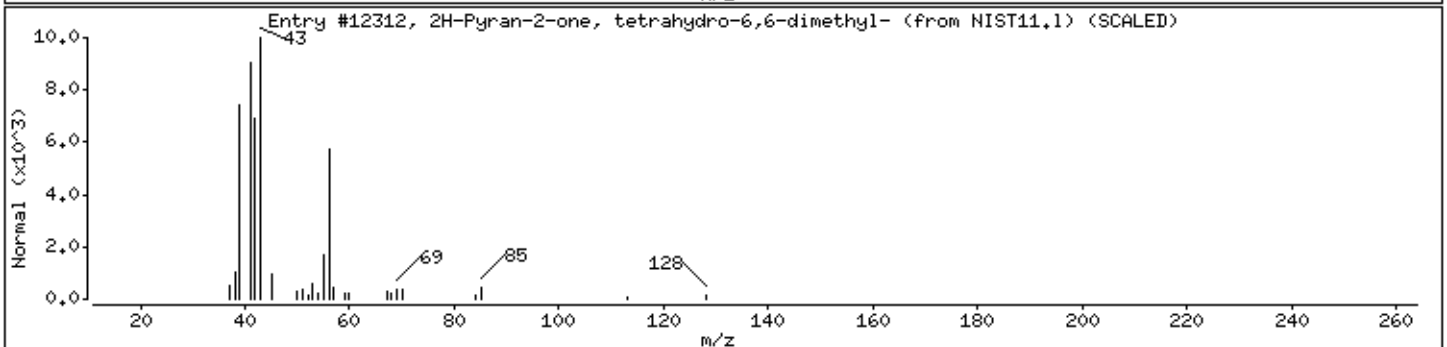
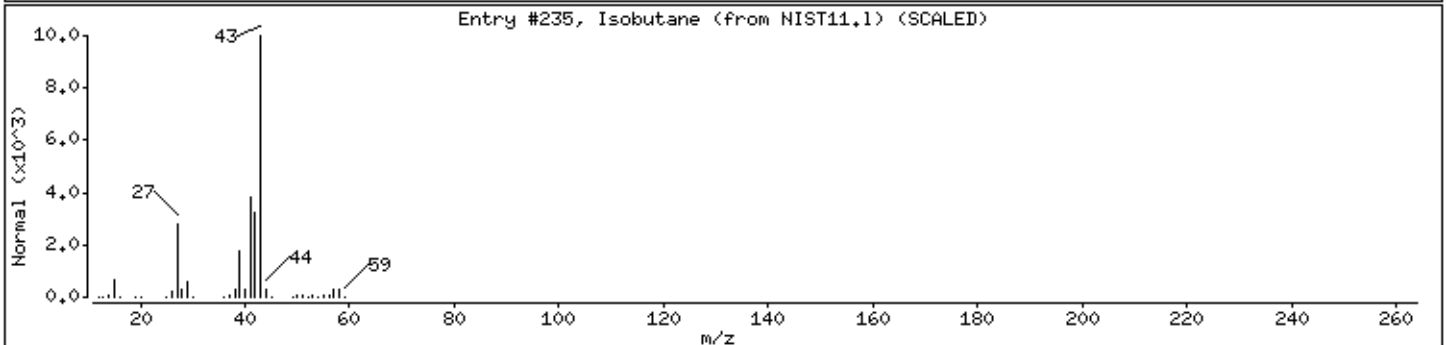
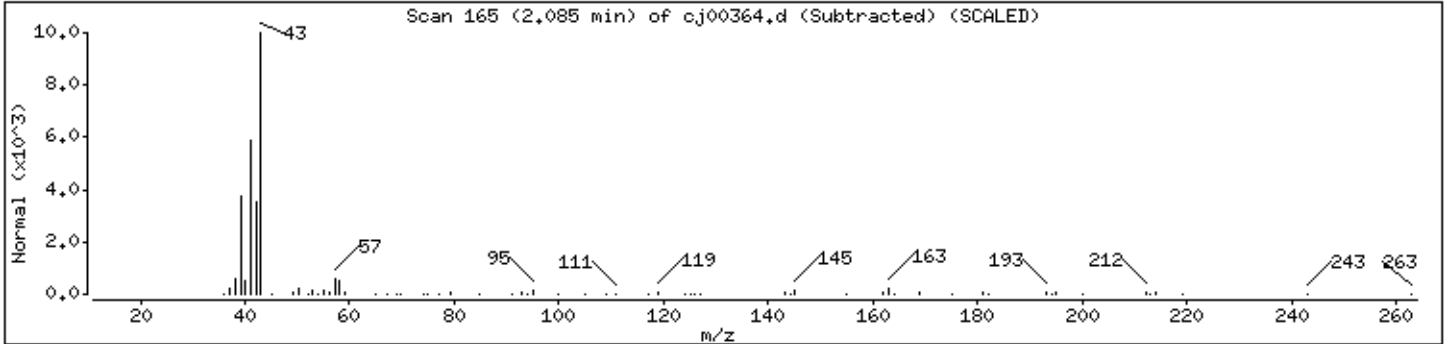
Sample Info: 8087711;500;C1528830AB;1011-;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Isobutane	75-28-5	NIST11.1	235	45	C4H10	58
2H-Pyran-2-one, tetrahydro-6,6-dimethyl-	2610-95-9	NIST11.1	12312	17	C7H12O2	128



Date : 17-OCT-2015 02:21

Client ID: 1011-

Instrument: HP09464.i

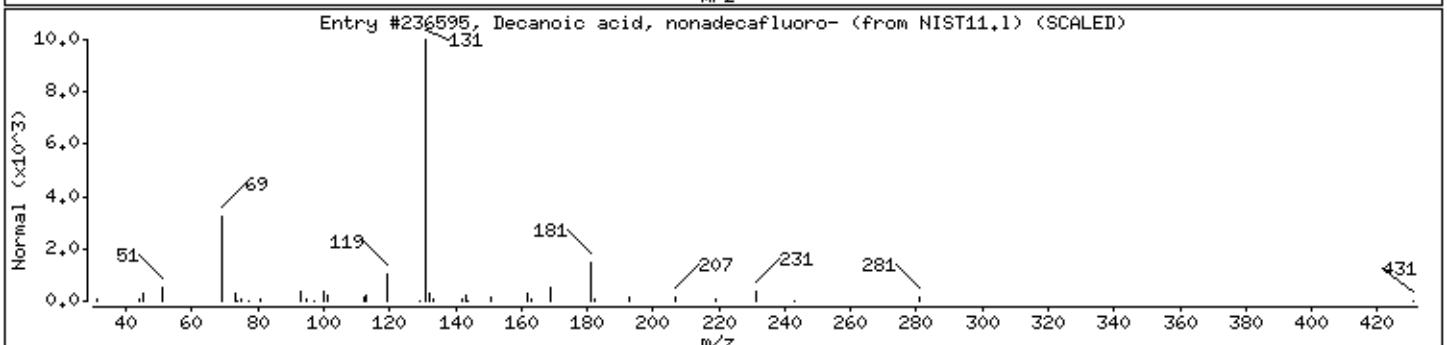
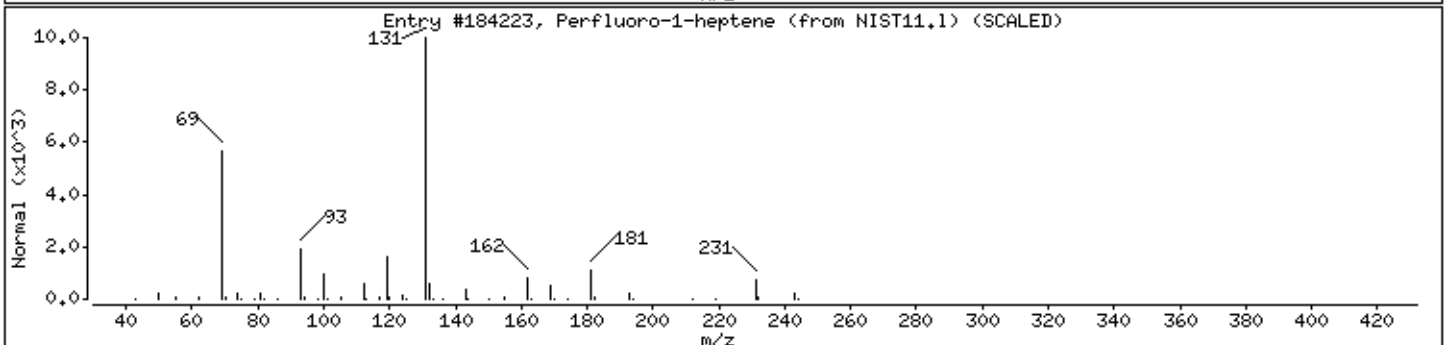
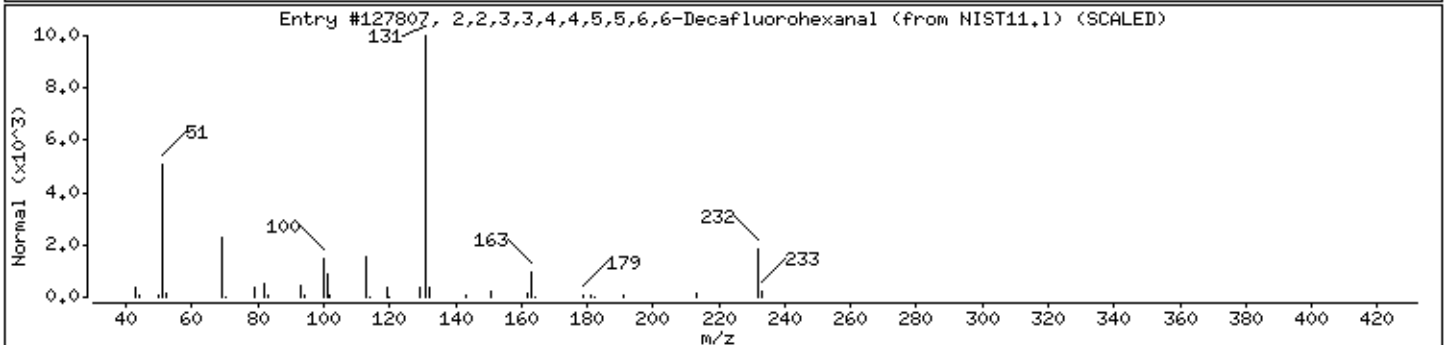
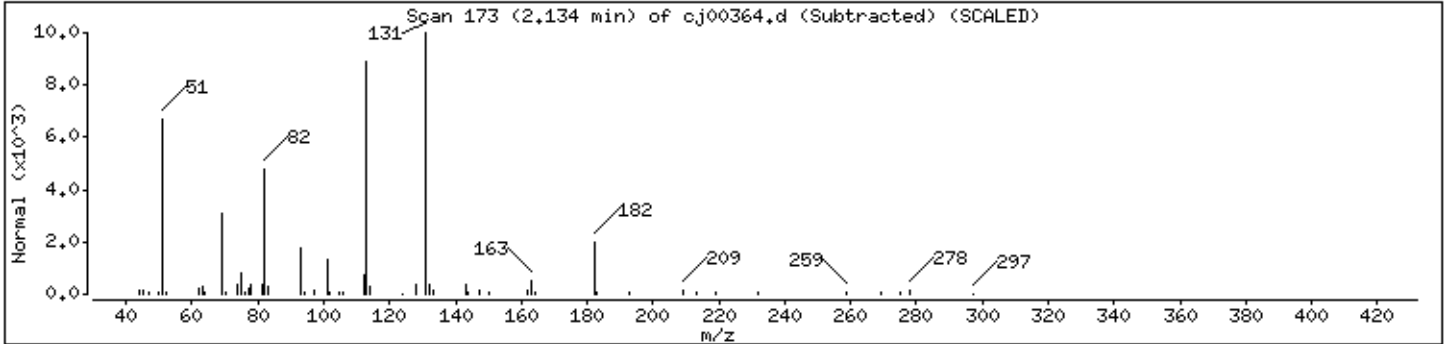
Sample Info: 8087711;500;C1528830AB;1011-;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2,2,3,3,4,4,5,5,6,6-Decafluorohexanal	1000283-62-2	NIST11.1	127807	38	C6H2F10O	280
Perfluoro-1-heptene	355-63-5	NIST11.1	184223	10	C7F14	350
Decanoic acid, nonadecafluoro-	335-76-2	NIST11.1	236595	10	C10HF19O2	514



Date : 17-OCT-2015 02:21

Client ID: 1011-

Instrument: HP09464.i

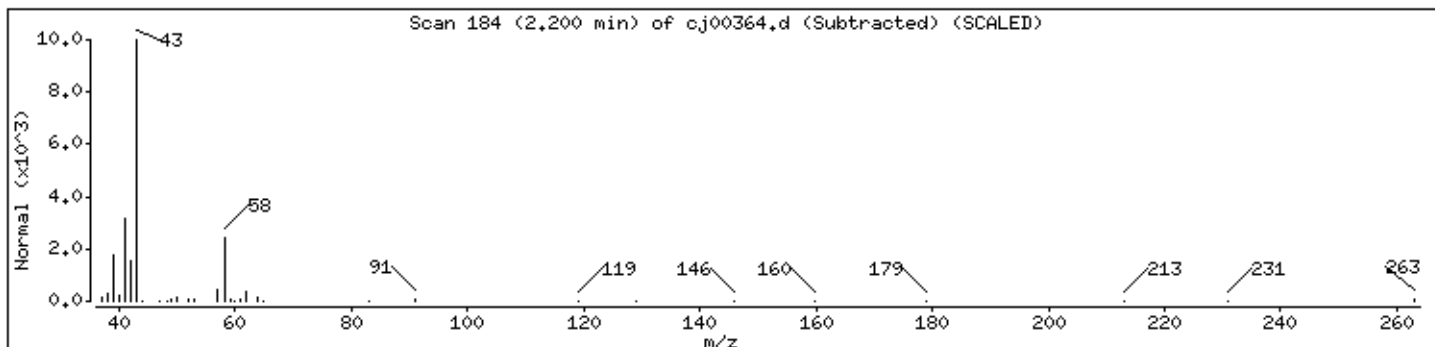
Sample Info: 8087711;500;C1528830AB;1011-;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Date : 17-OCT-2015 02:21

Client ID: 1011-

Instrument: HP09464.i

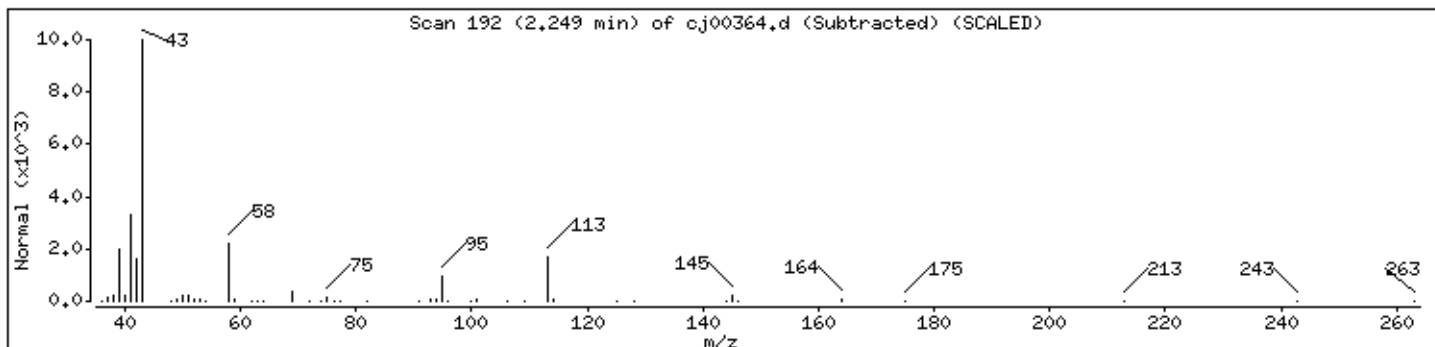
Sample Info: 8087711;500;C1528830AB;1011-;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Date : 17-OCT-2015 02:21

Client ID: 1011-

Instrument: HP09464.i

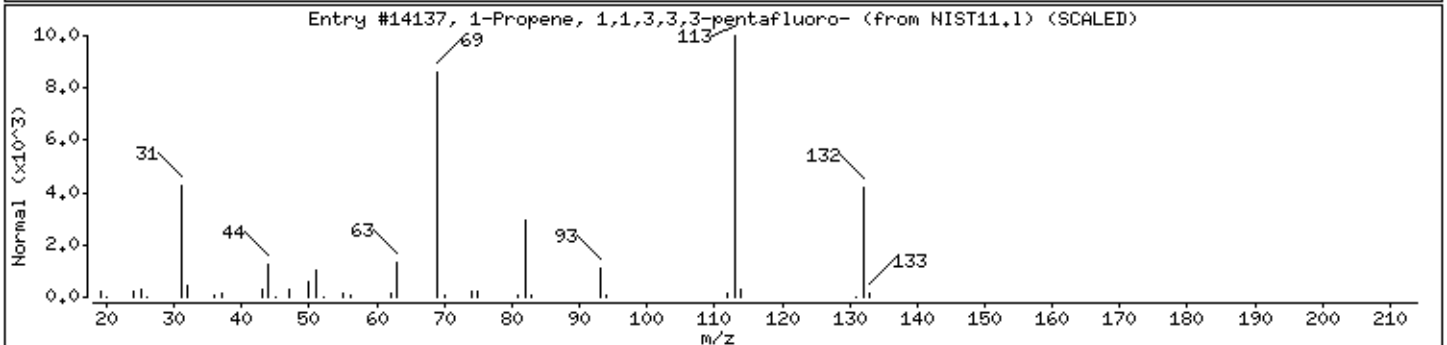
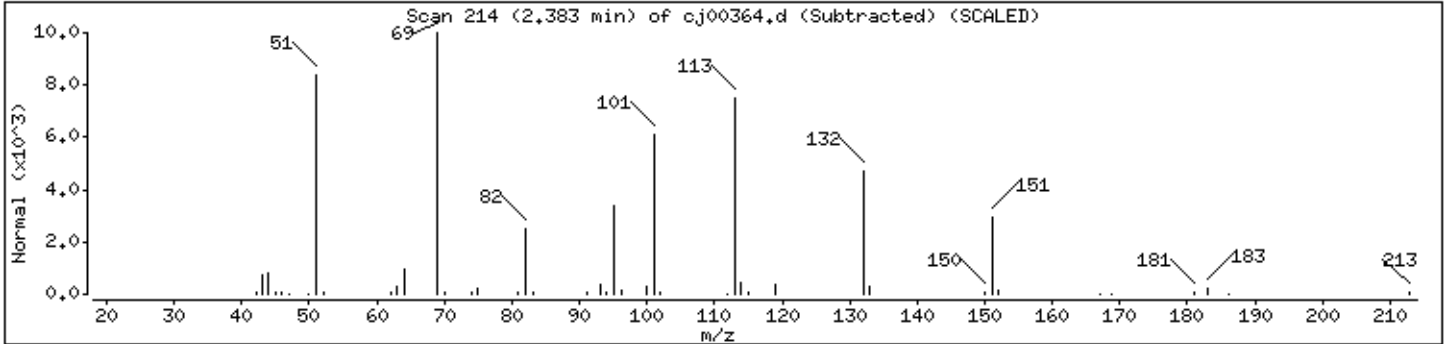
Sample Info: 8087711;500;C1528830AB;1011-;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1-Propene, 1,1,3,3,3-pentafluoro-	690-27-7	NIST11.1	14137	14	C3HF5	132



Date : 17-OCT-2015 02:21

Client ID: 1011-

Instrument: HP09464.i

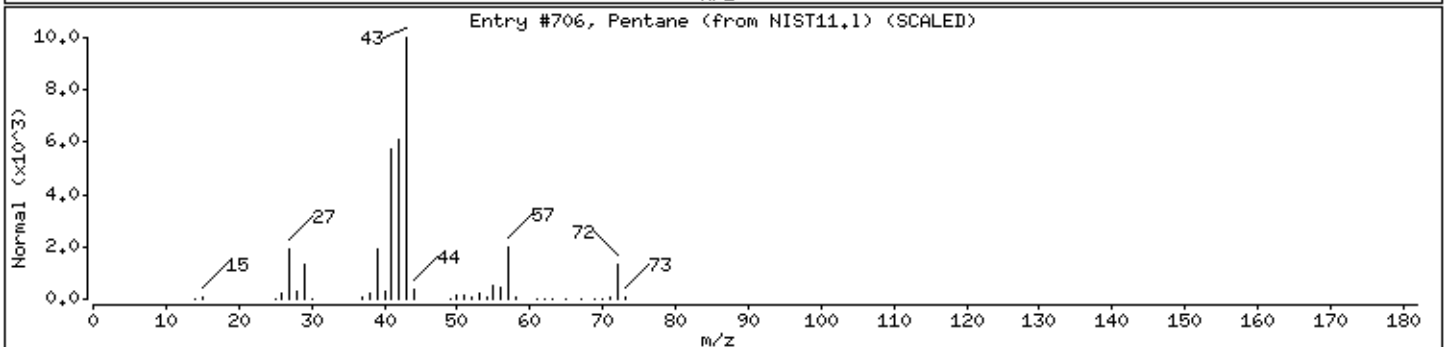
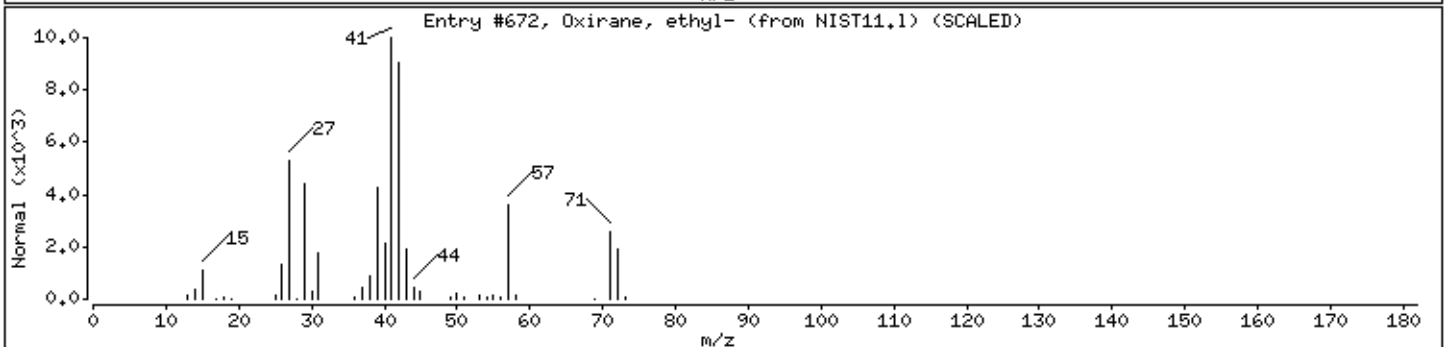
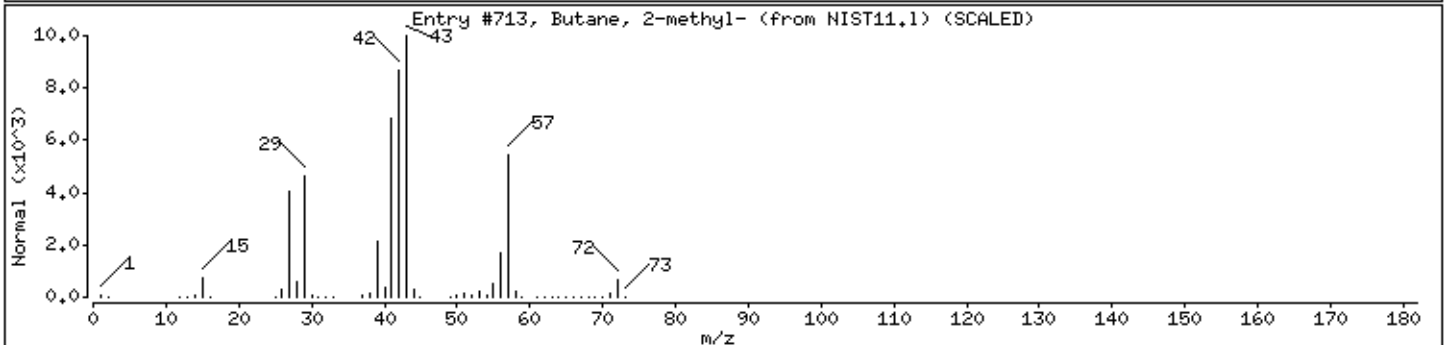
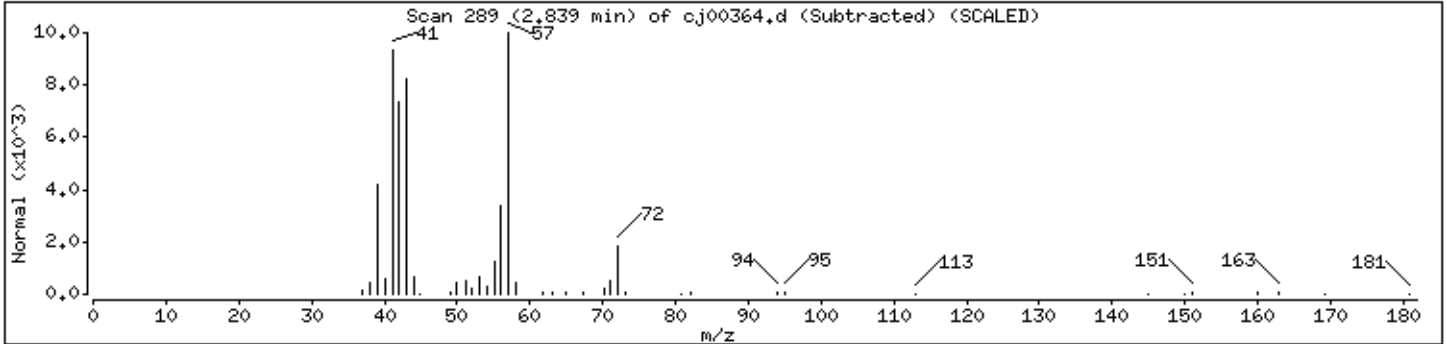
Sample Info: 8087711;500;C1528830AB;1011-;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane, 2-methyl-	78-78-4	NIST11.1	713	59	C5H12	72
Oxirane, ethyl-	106-88-7	NIST11.1	672	53	C4H8O	72
Pentane	109-66-0	NIST11.1	706	43	C5H12	72



Date : 17-OCT-2015 02:21

Client ID: 1011-

Instrument: HP09464.i

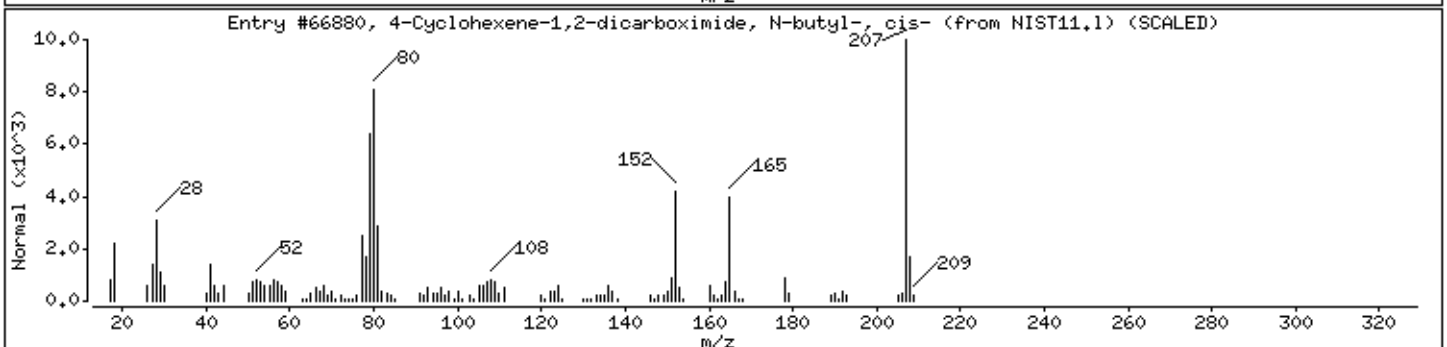
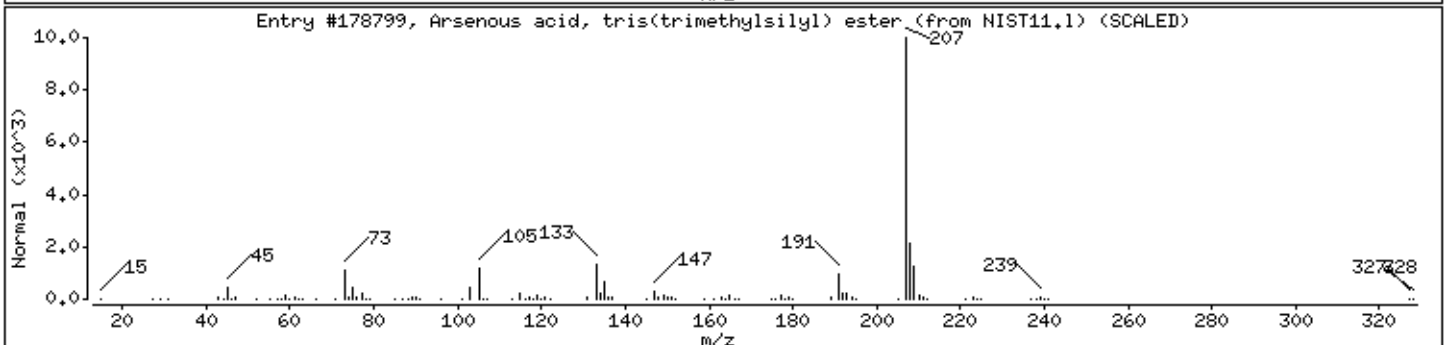
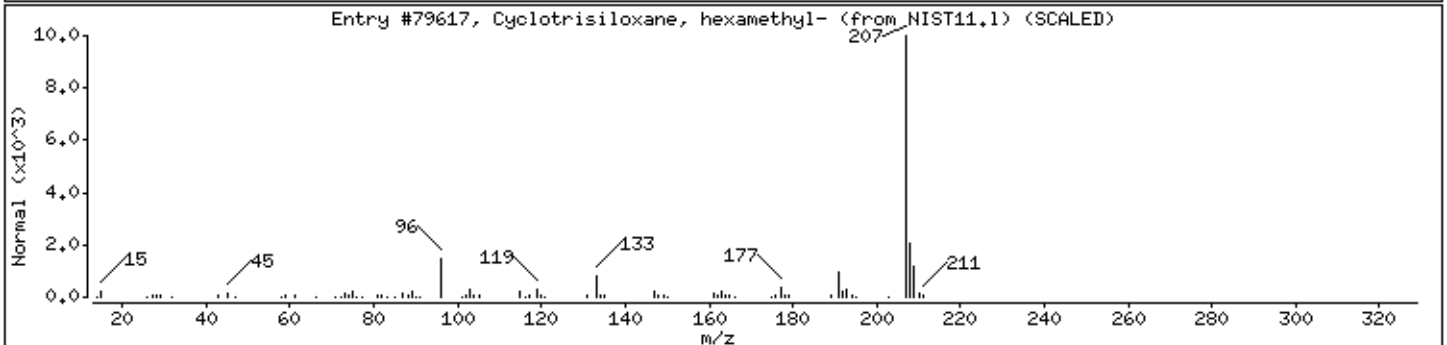
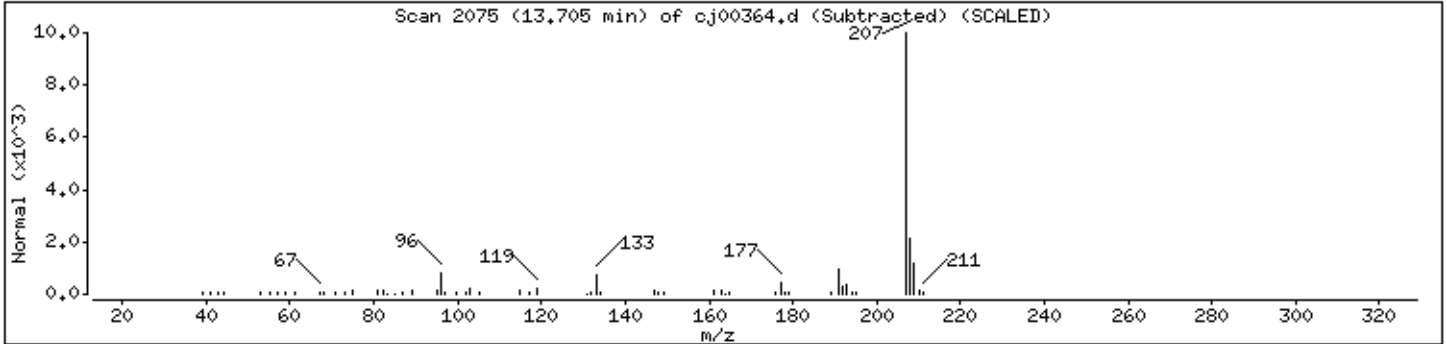
Sample Info: 8087711;500;C1528830AB;1011-;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NIST11.1	79617	90	C6H18O3Si3	222
Arsenous acid, tris(trimethylsilyl) este	55429-29-3	NIST11.1	178799	64	C9H27AsO3Si3	342
4-Cyclohexene-1,2-dicarboximide, N-butyl	28916-00-9	NIST11.1	66880	42	C12H17N02	207



1058-

Lancaster Laboratories, Inc.
 Analysis Summary for GC/MS Volatiles in Air 8087712

Data file: /chem/HP09464.i/15oct19.b/cj00390.d Injection date and time: 19-OCT-2015 19:35
 Data file Sample Info. Line: 8087712;50;C1528830AC;1058-;0;0;SAMPLE; Instrument ID: HP09464.i Batch: C1528830AC
 Date, time and analyst ID of latest file update: 26-Oct-2015 12:34 jbs01304

Blank Data file reference: /chem/HP09464.i/15oct19.b/cj00386.d

Method used: /chem/HP09464.i/15oct19.b/to-15.m Sublist used: 292
 Calibration date and time (Last Method Edit): 19-OCT-2015 16:04
 Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15oct19.b/cj00385.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
 Canister Pressure after dilution (Xa): 27.1 psia Canister Pressure before dilution (Ya): 13.6 psia
 Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 50 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.213(-0.006)	1008	130	640354 (5)	10.00		367235 - 856879
51) 1,4-Difluorobenzene	9.209(-0.006)	1336	114	1857405 (-3)	10.00		1151629 - 2687133
71) Chlorobenzene-d5	15.530(-0.006)	2375	117	1678349 (-1)	10.00		1021898 - 2384428

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Reporting Limit (in sample)	LOQ
2) Dichlorodifluoromethane	(1)			Not Detected				0.2	1
3) Chlorodifluoromethane	(1)			Not Detected				0.2	1
4) Freon 114	(1)			Not Detected				0.2	1
5) Chloromethane	(1)			Not Detected				0.2	1
6) Vinyl Chloride	(1)			Not Detected				0.2	1
7) 1,3-Butadiene	(1)			Not Detected				0.4	2
8) Bromomethane	(1)			Not Detected				0.2	1
9) Chloroethane	(1)			Not Detected				0.2	1
11) Dichlorofluoromethane	(1)			Not Detected				0.2	1
12) Trichlorofluoromethane	(1)			Not Detected				0.2	1
13) Pentane	(1)			Not Detected				0.2	1
17) 1,1-Dichloroethene	(1)			Not Detected				0.2	1
18) Freon 113	(1)			Not Detected				0.5	2
19) Acetone	(1)	3.861(-0.010)	43	41896	1.591	15.91		J 0.5	2
21) Carbon Disulfide	(1)			Not Detected				0.5	1
24) 3-Chloropropene	(1)			Not Detected				0.2	1
25) Methylene Chloride	(1)			Not Detected				0.2	1
28) trans-1,2-Dichloroethene	(1)			Not Detected				0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected				0.2	1
30) Hexane	(1)			Not Detected				0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected				0.2	1
35) cis-1,2-Dichloroethene	(1)			Not Detected				0.2	1
37) 2-Butanone	(1)			Not Detected				0.5	2
42) Chloroform	(1)			Not Detected				0.2	1
43) 1,1,1-Trichloroethane	(1)	7.718(0.000)	97	36179	0.262	2.62		J 0.2	1
45) Carbon Tetrachloride	(1)			Not Detected				0.2	1
46) Benzene	(2)			Not Detected				0.2	1
47) 1,2-Dichloroethane	(2)			Not Detected				0.2	1
48) Isooctane	(2)			Not Detected				0.2	1
50) Heptane	(2)			Not Detected				0.2	1
52) Trichloroethene	(2)	9.671(-0.000)	130	111610	1.434	14.34		0.2	1
54) 1,2-Dichloropropane	(2)			Not Detected				0.2	1
55) Dibromomethane	(2)			Not Detected				0.2	1
58) Bromodichloromethane	(2)			Not Detected				0.2	1
59) cis-1,3-Dichloropropene	(2)			Not Detected				0.2	1
60) 4-Methyl-2-Pentanone	(2)			Not Detected				0.5	2
61) Toluene	(3)	12.366(-0.000)	91	109146	0.833	8.33		J 0.2	1
62) Octane	(3)			Not Detected				0.2	1
63) trans-1,3-Dichloropropene	(3)			Not Detected				0.2	1
66) 1,1,2-Trichloroethane	(3)			Not Detected				0.2	1
67) Tetrachloroethene	(3)	13.577(0.000)	166	217580	1.950	19.50		0.2	1
68) 2-Hexanone	(3)			Not Detected				0.5	2
69) Dibromochloromethane	(3)			Not Detected				0.2	1

1058-

Lancaster Laboratories, Inc.
Analysis Summary for GC/MS Volatiles in Air 8087712

Data file: /chem/HP09464.i/15oct19.b/cj00390.d Injection date and time: 19-OCT-2015 19:35
Data file Sample Info. Line: 8087712;50;C1528830AC;1058-;0;0;SAMPLE; Instrument ID: HP09464.i Batch: C1528830AC
Date, time and analyst ID of latest file update: 26-Oct-2015 12:34 jbs01304

Blank Data file reference: /chem/HP09464.i/15oct19.b/cj00386.d

Method used: /chem/HP09464.i/15oct19.b/to-15.m Sublist used: 292
Calibration date and time (Last Method Edit): 19-OCT-2015 16:04
Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15oct19.b/cj00385.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

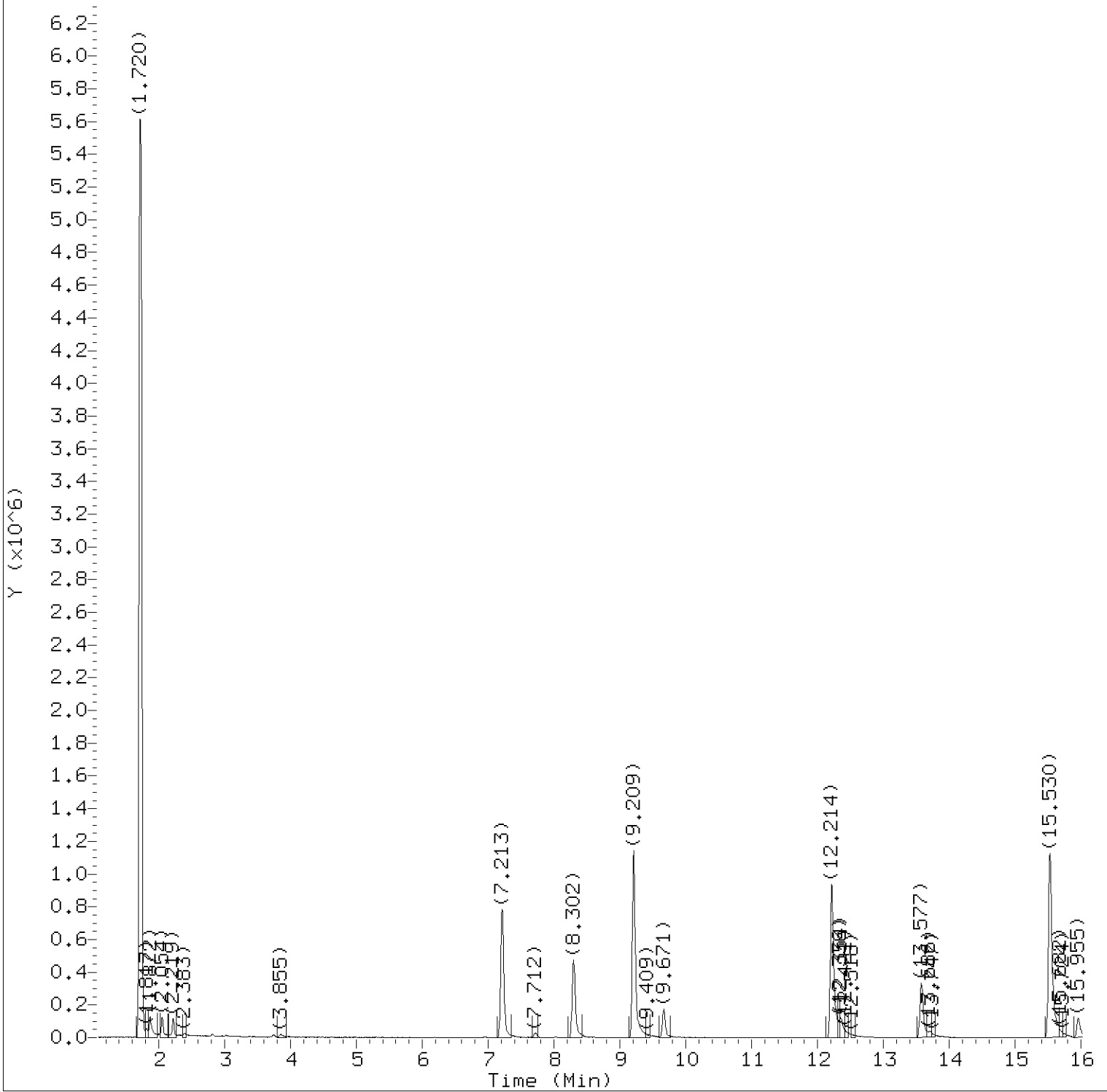
Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
Canister Pressure after dilution (Xa): 27.1 psia Canister Pressure before dilution (Ya): 13.6 psia
Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 50 cc

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
70) 1,2-Dibromoethane	(3)			Not Detected					0.2	1
72) Chlorobenzene	(3)			Not Detected					0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)	15.955(0.000)	91	223970	1.547	15.47			0.2	1
75) m/p-Xylene	(3)	16.266(0.000)	91	1449007	12.102	121.02			0.2	1
76) o-Xylene	(3)	17.245(-0.000)	91	417768	3.315	33.15			0.2	1
78) Styrene	(3)			Not Detected					0.2	1
79) Bromoform	(3)			Not Detected					0.2	1
80) Cumene	(3)			Not Detected					0.2	1
81) Bromobenzene	(3)			Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)			Not Detected					0.2	1
86) 4-Ethyltoluene	(3)			Not Detected					0.2	1
87) 1,3,5-Trimethylbenzene	(3)			Not Detected					0.2	1
90) 1,2,4-Trimethylbenzene	(3)			Not Detected					0.2	1
92) 1,3-Dichlorobenzene	(3)			Not Detected					0.2	1
93) 1,4-Dichlorobenzene	(3)			Not Detected					0.2	1
96) 1,2-Dichlorobenzene	(3)			Not Detected					0.2	1
98) Hexachloroethane	(3)			Not Detected					0.2	1

Total number of targets = 62

Digitally signed by Jeffrey B. Smith on 10/26/2015 at 12:35. Target 3.5 esignature user ID: jbs01304

Secondary review performed and digitally signed by Mark A. Ratcliff on 10/27/2015 at 10:03. Parallax ID: mar00486



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15oct19.b/cj00390.d
Injection date and time: 19-OCT-2015 19:35

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct19.b/to-15.m
Calibration date and time: 19-OCT-2015 16:04

Sublist used: 292

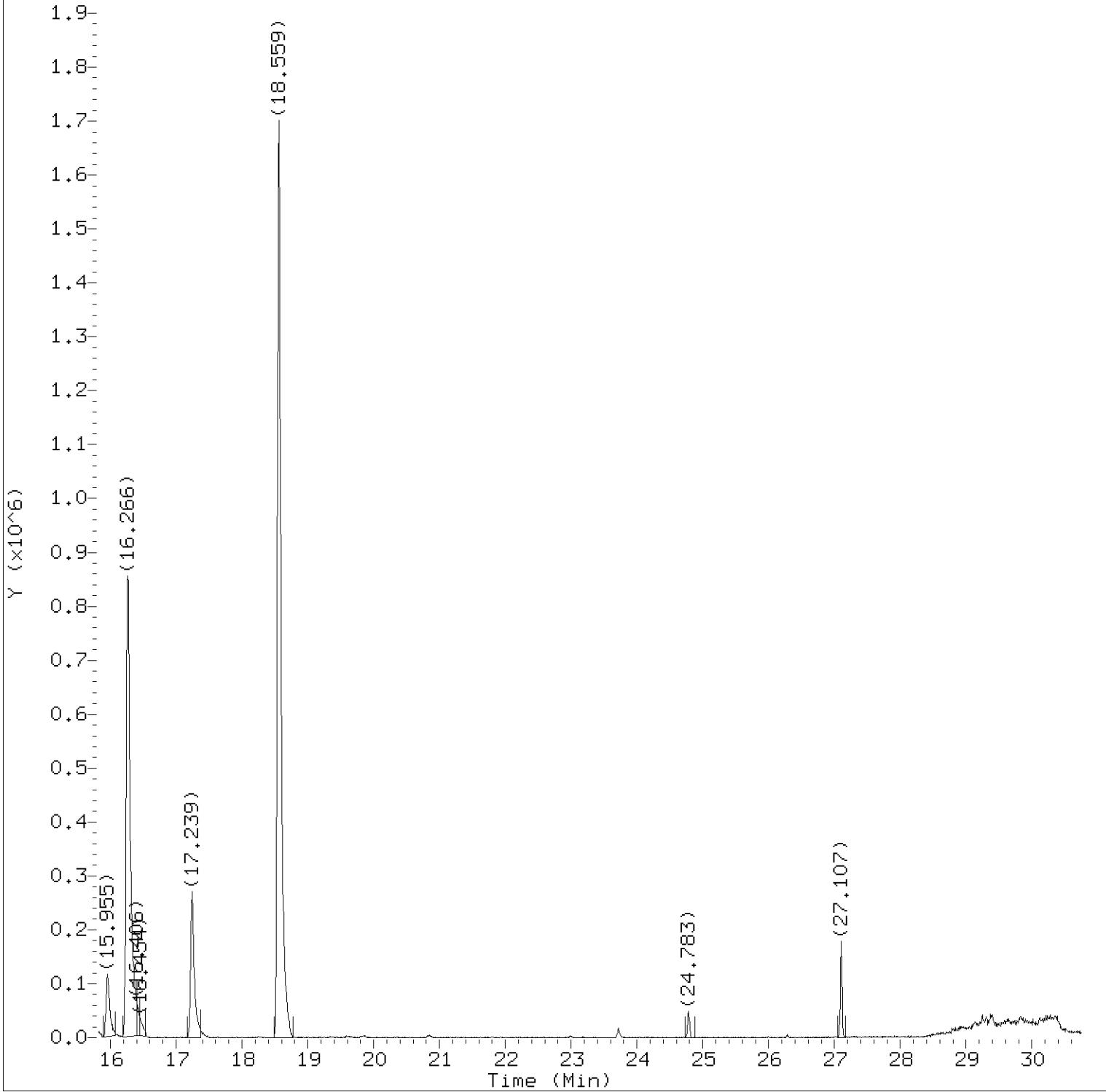
Date, time and analyst ID of latest file update: 26-Oct-2015 12:34 jbs01304

Sample Name: 1058-

Lab Sample ID: 8087712

Digitally signed by Jeffrey B. Smith
on 10/26/2015 at 12:35.

Target 3.5 esignature user ID: jbs01304



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15oct19.b/cj00390.d
Injection date and time: 19-OCT-2015 19:35

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct19.b/to-15.m
Calibration date and time: 19-OCT-2015 16:04

Sublist used: 292

Date, time and analyst ID of latest file update: 26-Oct-2015 12:34 jbs01304

Sample Name: 1058-

Lab Sample ID: 8087712

Digitally signed by Jeffrey B. Smith
on 10/26/2015 at 12:35.

Target 3.5 esignature user ID: jbs01304

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15oct19.b/cj00390.d
 Injection date and time: 19-OCT-2015 19:35

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct19.b/to-15.m
 Calibration date and time: 19-OCT-2015 16:04

Sublist used: 292

Date, time and analyst ID of latest file update: 26-Oct-2015 12:34 jbs01304

Sample Name: 1058-

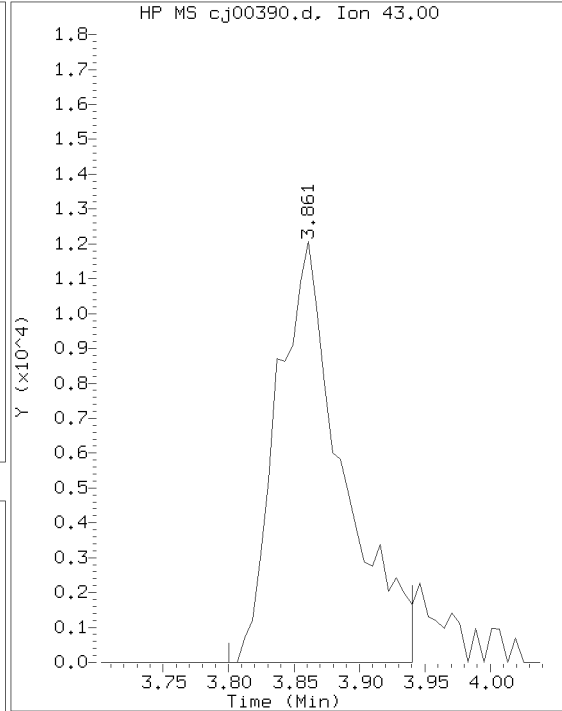
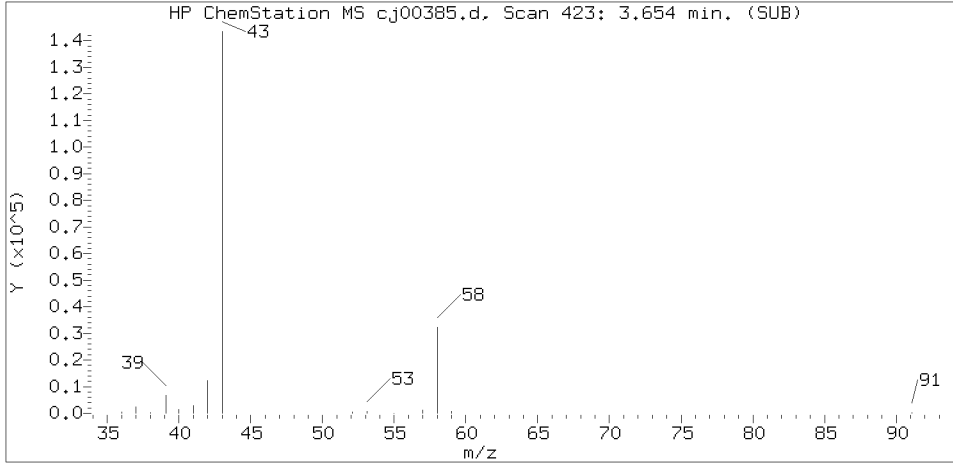
Lab Sample ID: 8087712

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
19) Acetone	(1)	3.861	43	41896	1.591
40)*Bromochloromethane	(1)	7.213	130	640354	10.000
43) 1,1,1-Trichloroethane	(1)	7.718	97	36179	0.262
51)*1,4-Difluorobenzene	(2)	9.209	114	1857405	10.000
52) Trichloroethene	(2)	9.671	130	111610	1.434
61) Toluene	(3)	12.366	91	109146	0.833
67) Tetrachloroethene	(3)	13.577	166	217580	1.950
71)*Chlorobenzene-d5	(3)	15.530	117	1678349	10.000
74) Ethylbenzene	(3)	15.955	91	223970	1.547
75) m/p-Xylene	(3)	16.266	91	1449007	12.102
76) o-Xylene	(3)	17.245	91	417768	3.315

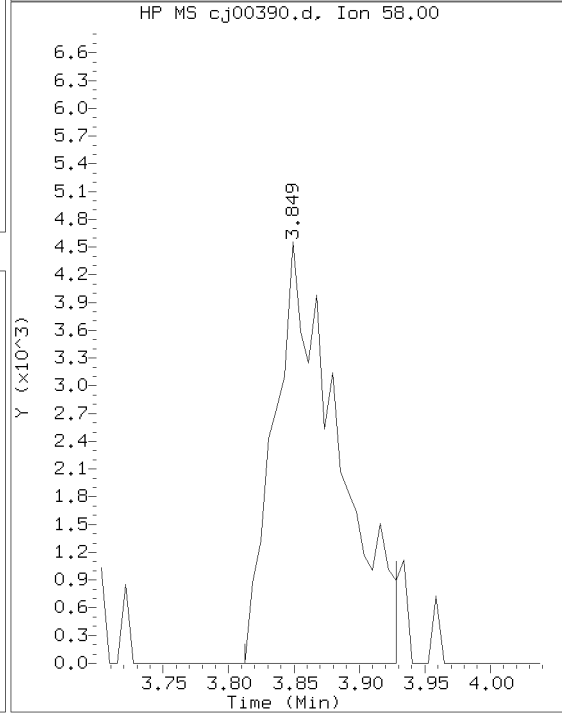
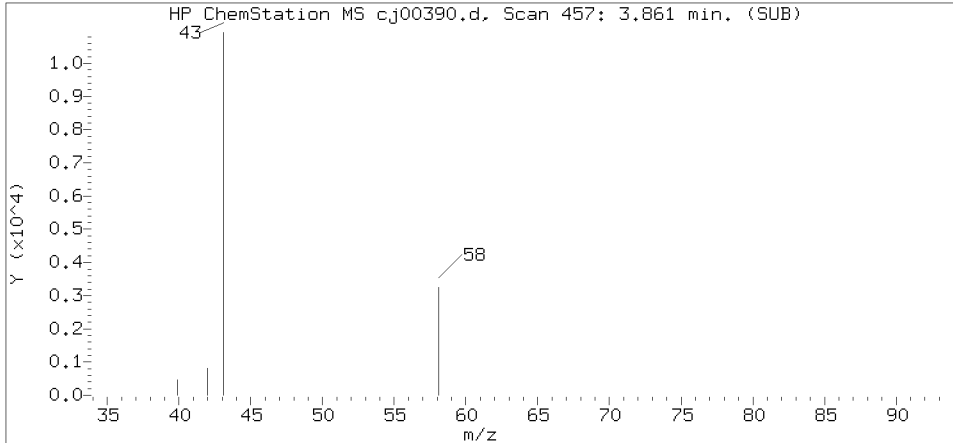
* = Compound is an internal standard.

Digitally signed by Jeffrey B. Smith
 on 10/26/2015 at 12:35.
 Target 3.5 esignature user ID: jbs01304

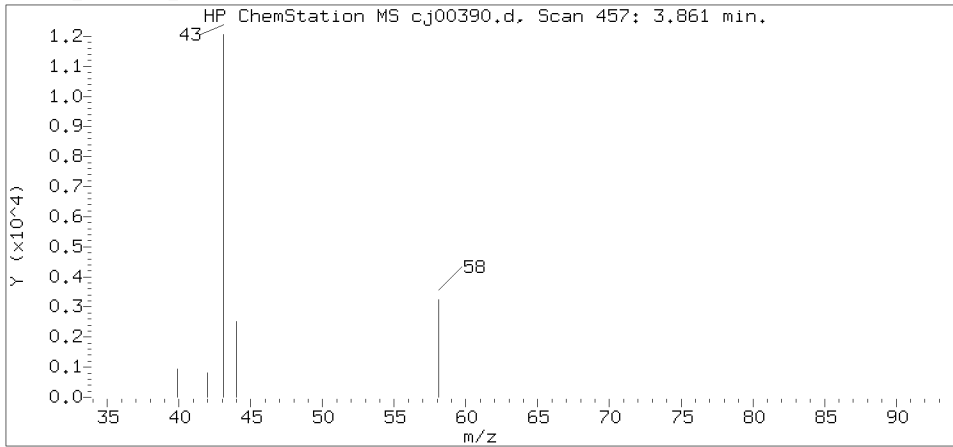
Reference Standard Spectrum for Acetone



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct19.b/cj00390.d
 Injection date and time: 19-OCT-2015 19:35

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct19.b/to-15.m
 Calibration date and time: 19-OCT-2015 16:04
 Date, time and analyst ID of latest file update: 26-Oct-2015 12:34 jbs01304

Sublist used: 292

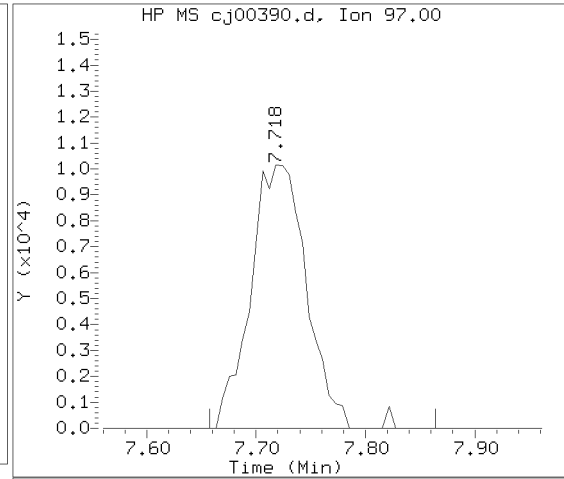
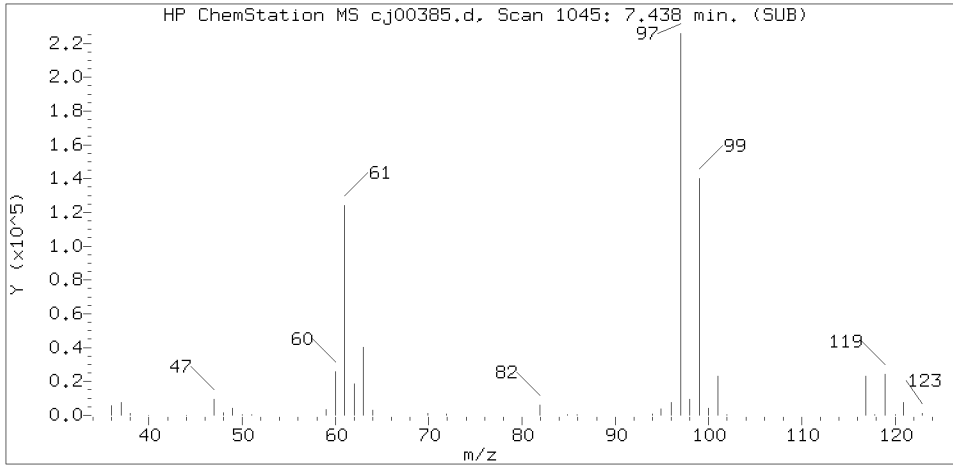
Sample Name: 1058-

Lab Sample ID: 8087712

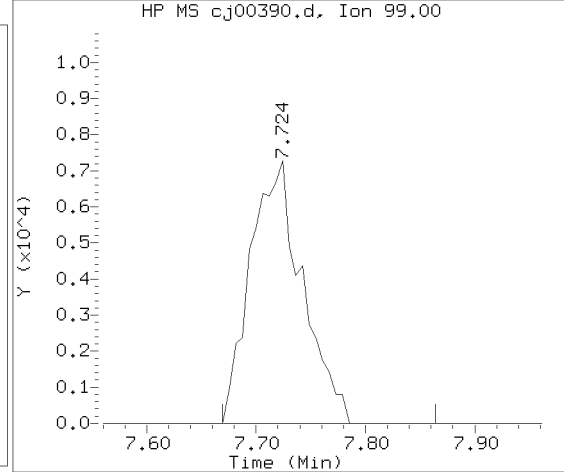
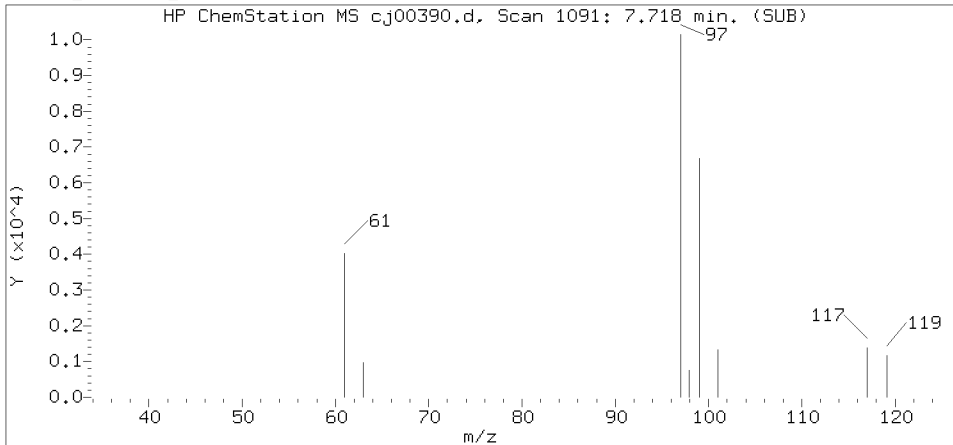
Compound Number : 19
 Compound Name : Acetone
 Scan Number : 457
 Retention Time (minutes): 3.861
 Relative Retention Time : -0.01053
 Quant Ion : 43.00
 Area (flag) : 41896
 Concentration (ppb(v)) : 1.5909

Digitally signed by Jeffrey B. Smith on 10/26/2015 at 12:35.
 Target 3.5 esignature user ID: jbs01304

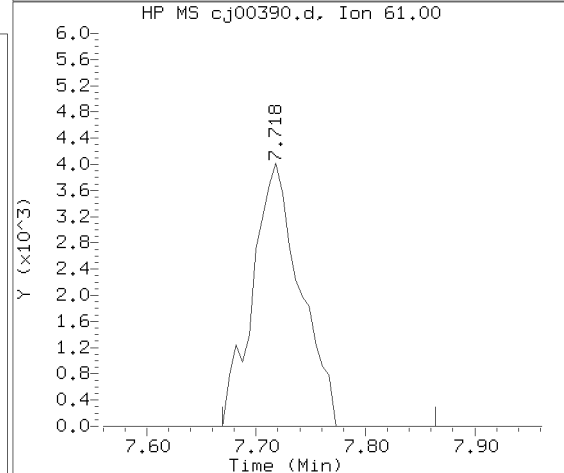
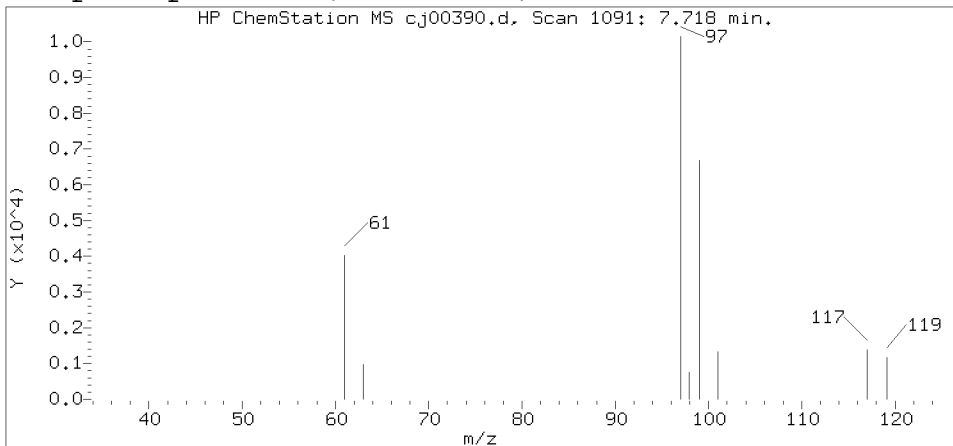
Reference Standard Spectrum for 1,1,1-Trichloroethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct19.b/cj00390.d
 Injection date and time: 19-OCT-2015 19:35

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct19.b/to-15.m
 Calibration date and time: 19-OCT-2015 16:04
 Date, time and analyst ID of latest file update: 26-Oct-2015 12:34 jbs01304

Sample Name: 1058-

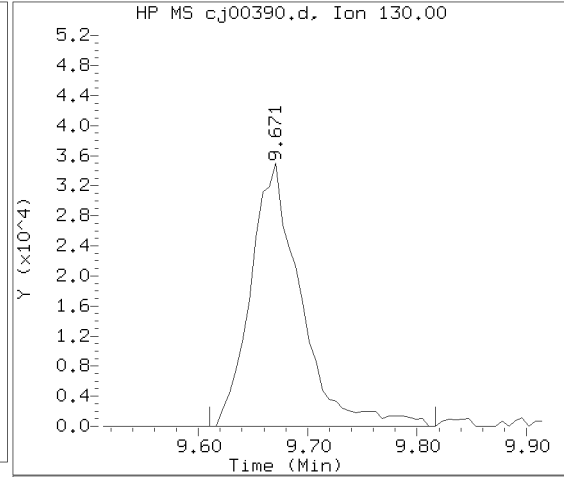
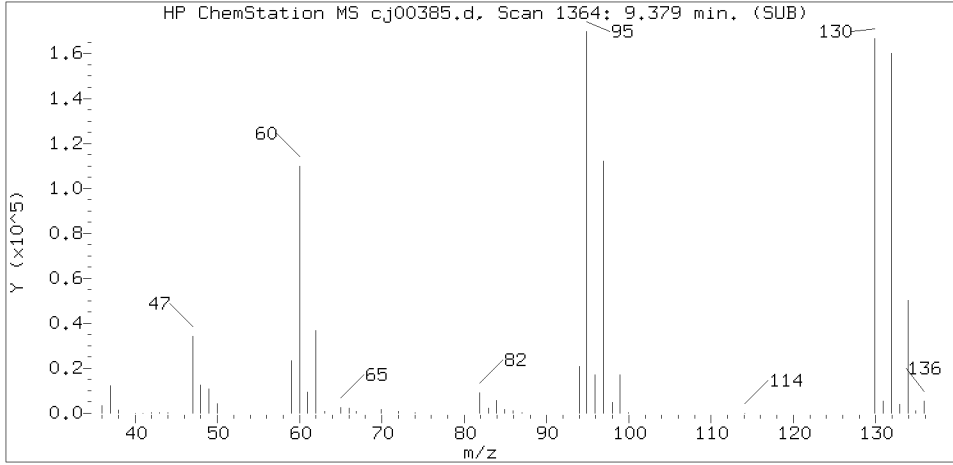
Lab Sample ID: 8087712

Compound Number : 43
 Compound Name : 1,1,1-Trichloroethane
 Scan Number : 1091
 Retention Time (minutes): 7.718
 Relative Retention Time : 0.00006
 Quant Ion : 97.00
 Area (flag) : 36179
 Concentration (ppb(v)) : 0.2624

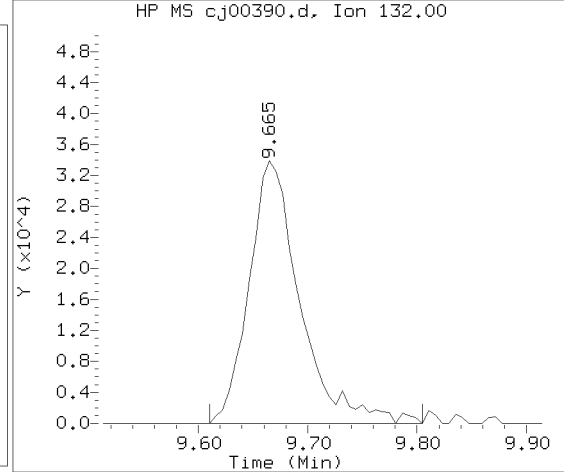
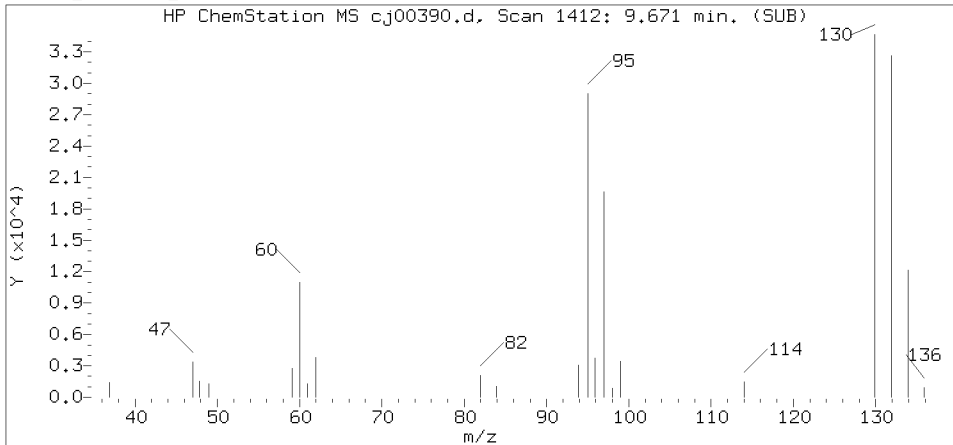
Digitally signed by Jeffrey B. Smith on 10/26/2015 at 12:35.

Target 3.5 esignature user ID: jbs01304
 SSX23 Page 149 of 1243

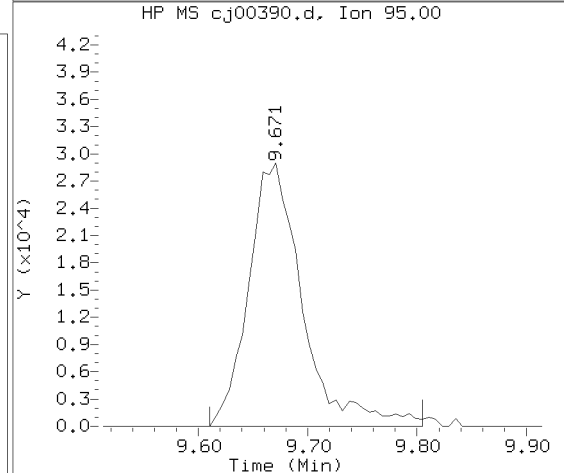
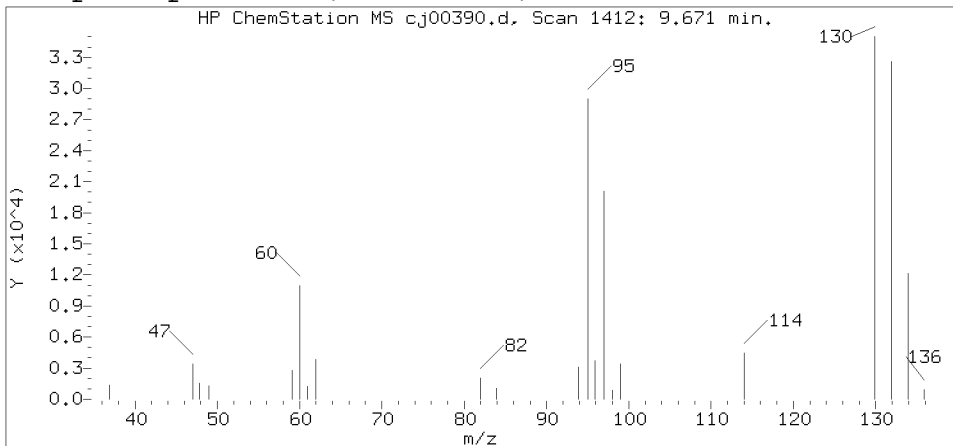
Reference Standard Spectrum for Trichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct19.b/cj00390.d
 Injection date and time: 19-OCT-2015 19:35

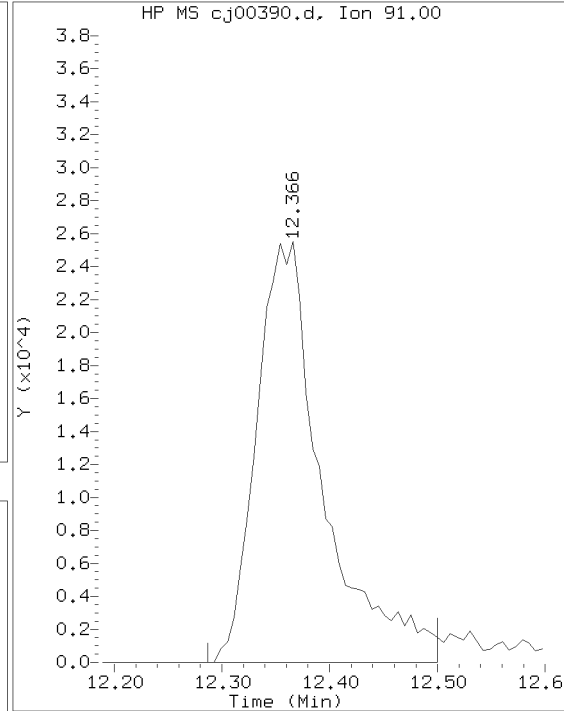
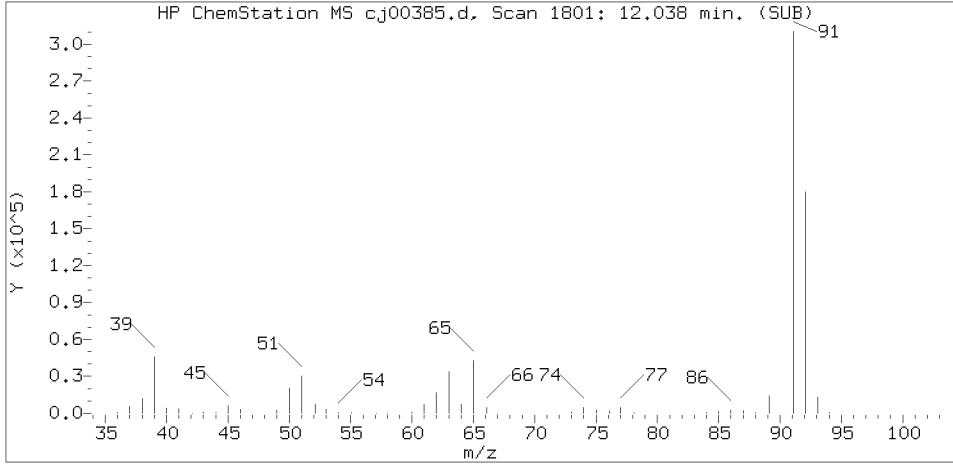
Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct19.b/to-15.m
 Calibration date and time: 19-OCT-2015 16:04
 Date, time and analyst ID of latest file update: 26-Oct-2015 12:34 jbs01304

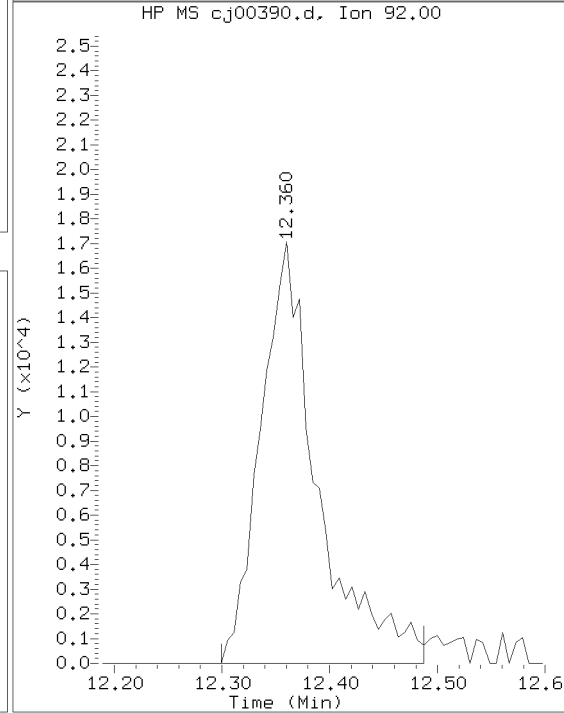
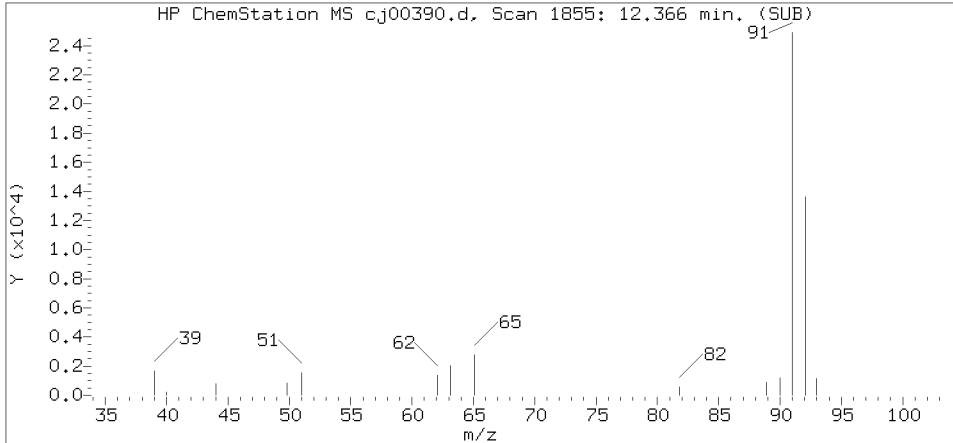
Sample Name: 1058- Lab Sample ID: 8087712

Compound Number : 52
 Compound Name : Trichloroethene
 Scan Number : 1412
 Retention Time (minutes): 9.671
 Relative Retention Time : -0.00063
 Quant Ion : 130.00
 Area (flag) : 111610
 Concentration (ppb(v)) : 1.4340

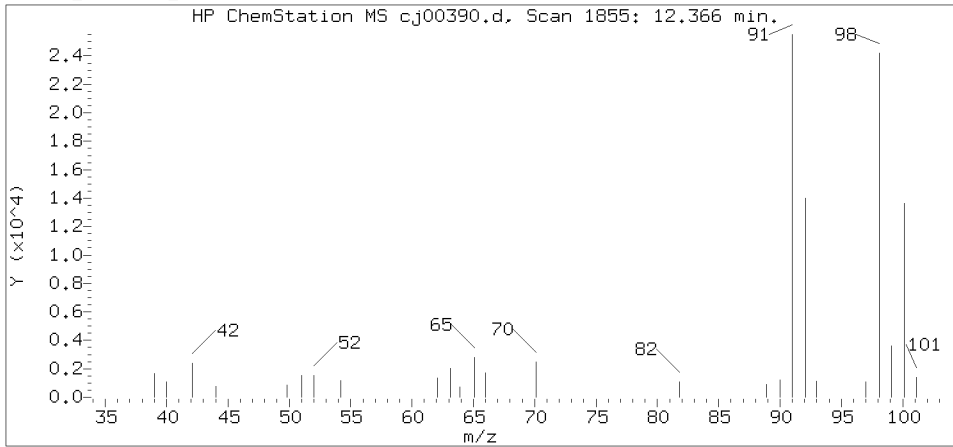
Reference Standard Spectrum for Toluene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct19.b/cj00390.d
 Injection date and time: 19-OCT-2015 19:35

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct19.b/to-15.m
 Calibration date and time: 19-OCT-2015 16:04
 Date, time and analyst ID of latest file update: 26-Oct-2015 12:34 jbs01304

Sample Name: 1058-

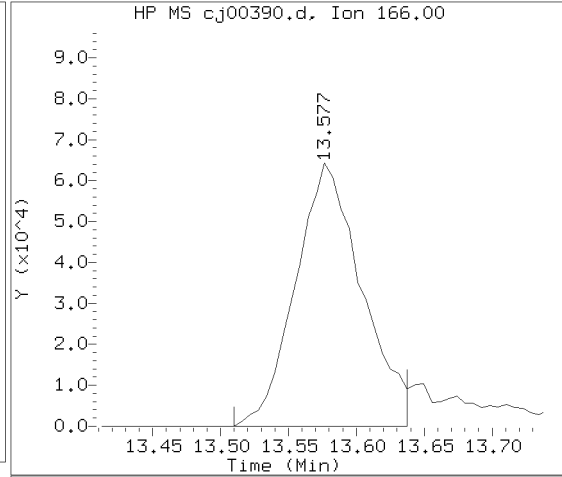
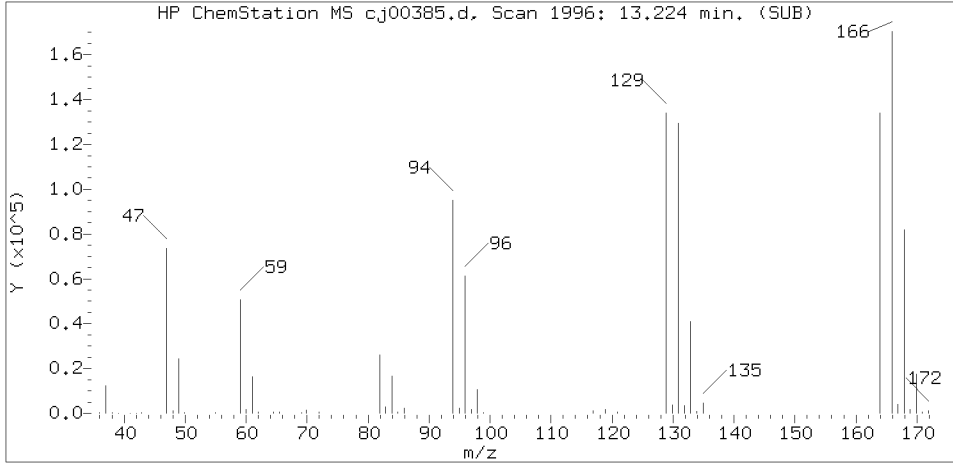
Lab Sample ID: 8087712

Compound Number : 61
 Compound Name : Toluene
 Scan Number : 1855
 Retention Time (minutes): 12.366
 Relative Retention Time : -0.00087
 Quant Ion : 91.00
 Area (flag) : 109146
 Concentration (ppb(v)) : 0.8329

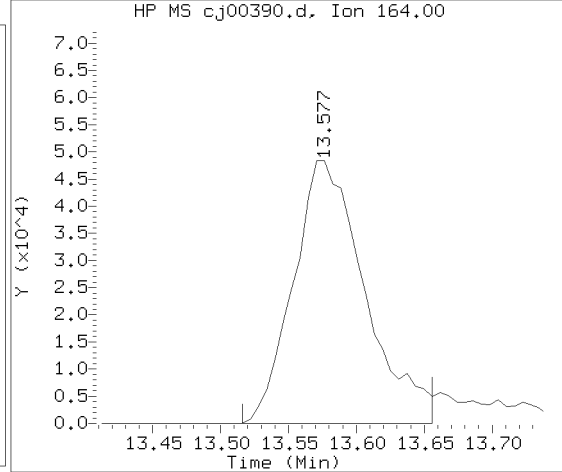
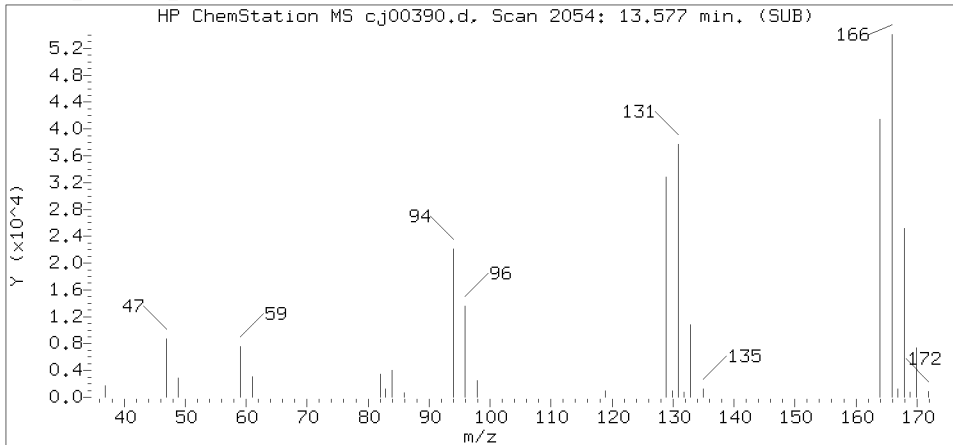
Digitally signed by Jeffrey B. Smith on 10/26/2015 at 12:35.

Target 3.5 esignature user ID: jbs01304
 SSX23 Page 151 of 1243

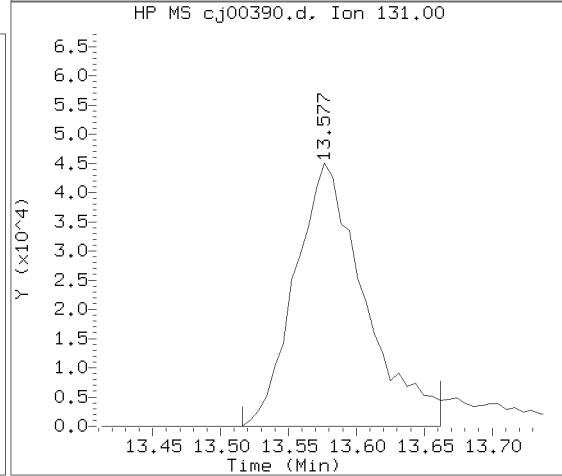
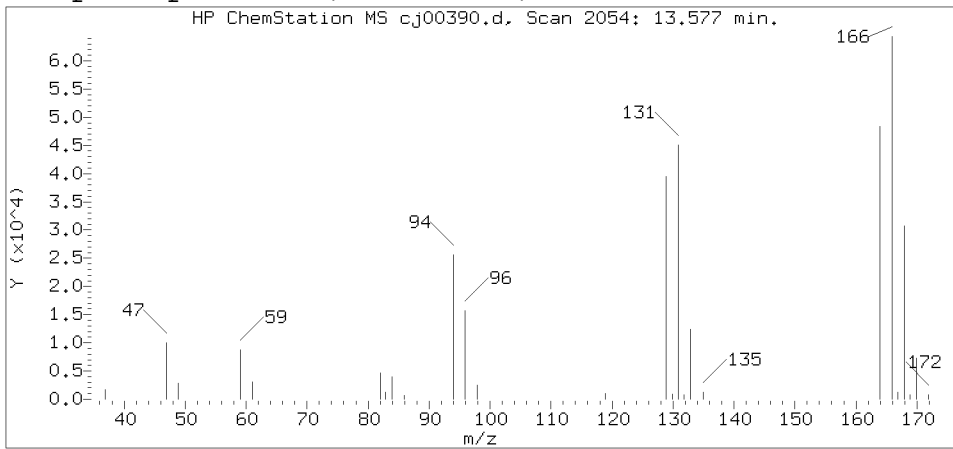
Reference Standard Spectrum for Tetrachloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct19.b/cj00390.d
 Injection date and time: 19-OCT-2015 19:35

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct19.b/to-15.m
 Calibration date and time: 19-OCT-2015 16:04
 Date, time and analyst ID of latest file update: 26-Oct-2015 12:34 jbs01304

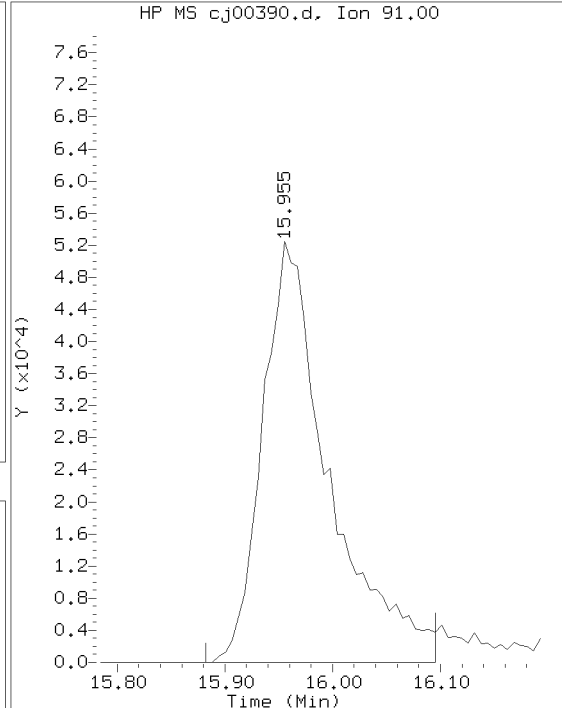
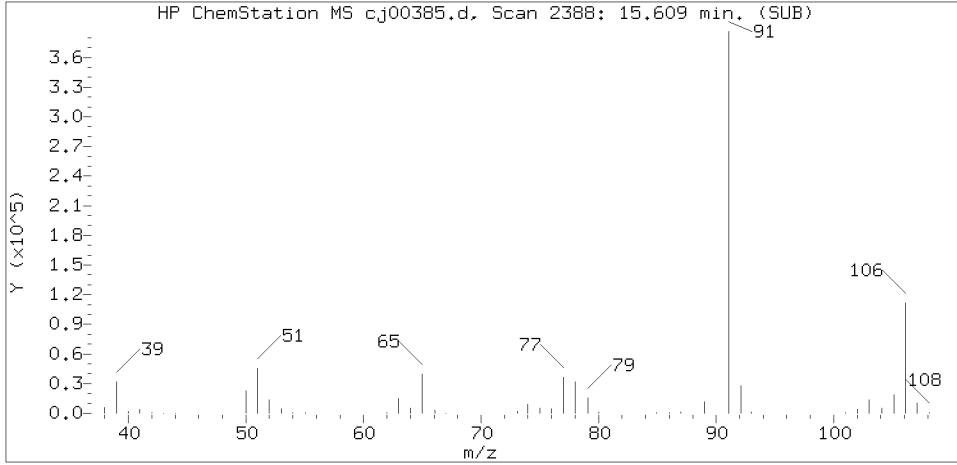
Sublist used: 292

Sample Name: 1058-

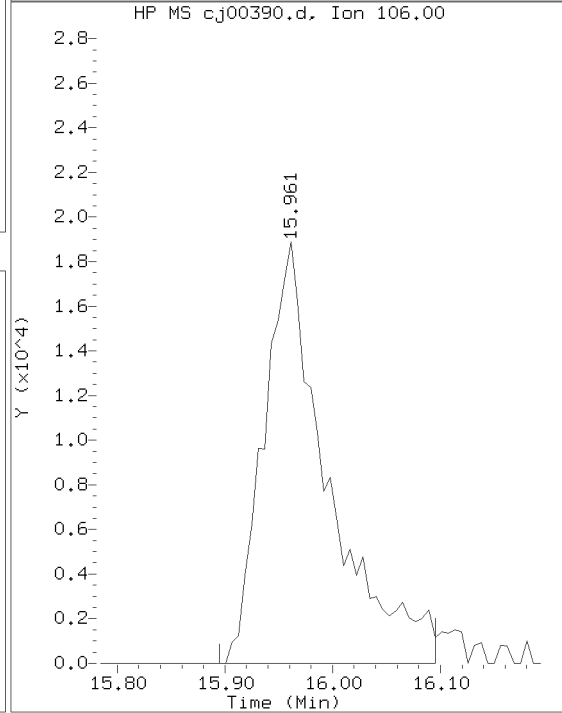
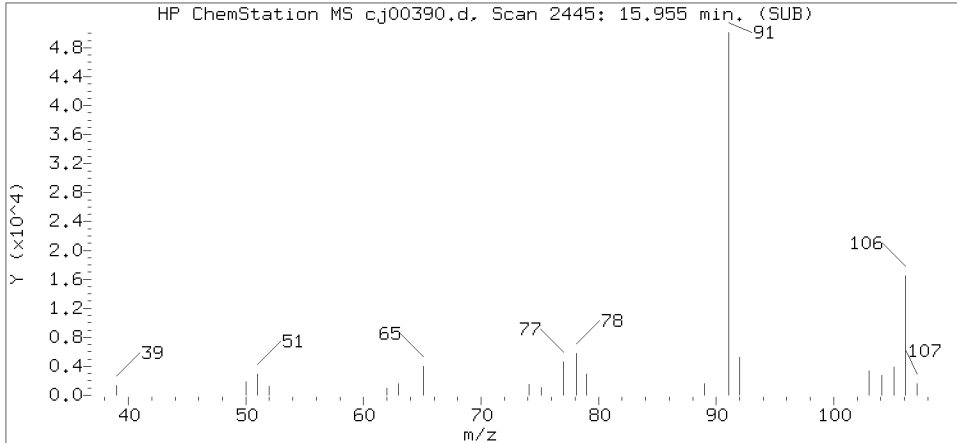
Lab Sample ID: 8087712

Compound Number : 67
 Compound Name : Tetrachloroethene
 Scan Number : 2054
 Retention Time (minutes): 13.577
 Relative Retention Time : 0.00034
 Quant Ion : 166.00
 Area (flag) : 217580
 Concentration (ppb(v)) : 1.9501

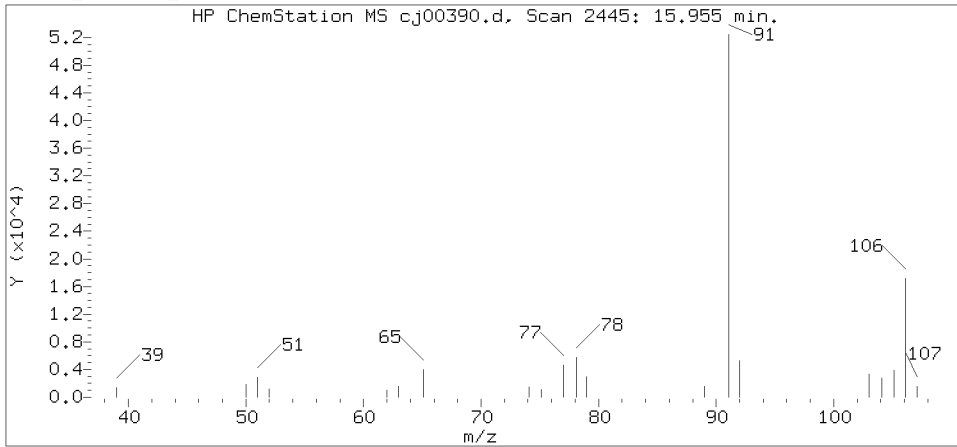
Reference Standard Spectrum for Ethylbenzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct19.b/cj00390.d
 Injection date and time: 19-OCT-2015 19:35

Instrument ID: HP09464.i
 Analyst ID: jeb07445

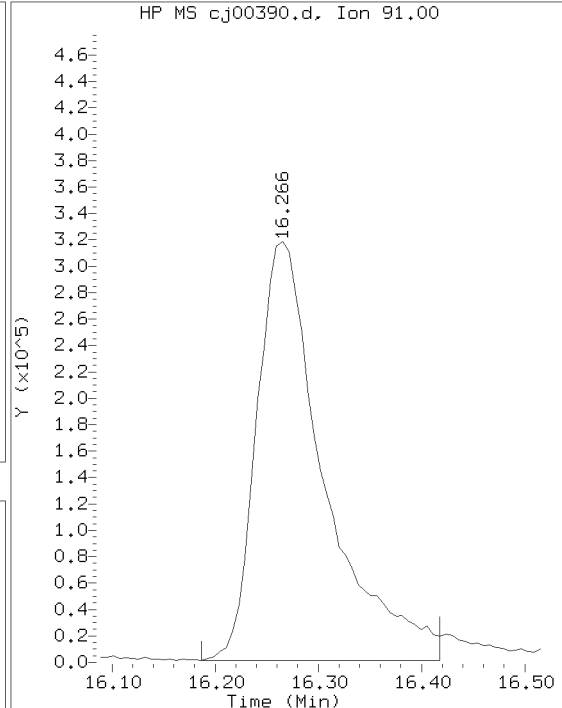
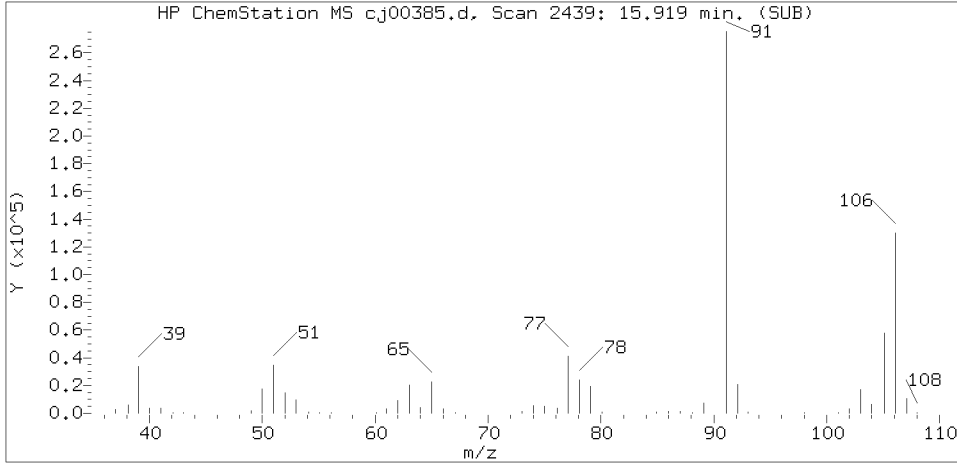
Method used: /chem/HP09464.i/15oct19.b/to-15.m
 Calibration date and time: 19-OCT-2015 16:04
 Date, time and analyst ID of latest file update: 26-Oct-2015 12:34 jbs01304

Sample Name: 1058-

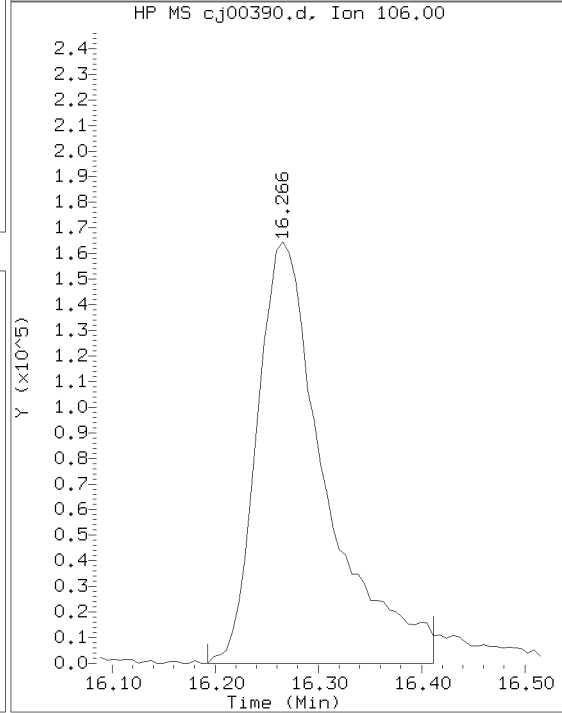
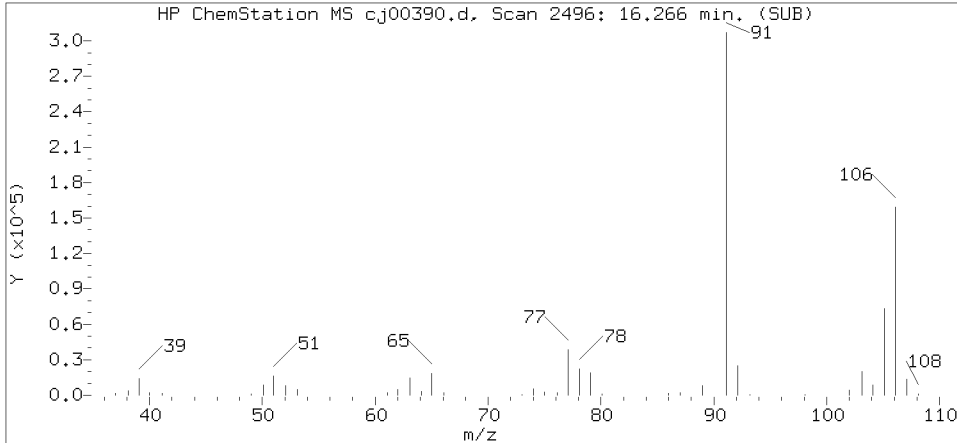
Lab Sample ID: 8087712

Compound Number : 74
 Compound Name : Ethylbenzene
 Scan Number : 2445
 Retention Time (minutes): 15.955
 Relative Retention Time : 0.00001
 Quant Ion : 91.00
 Area (flag) : 223970
 Concentration (ppb(v)) : 1.5469

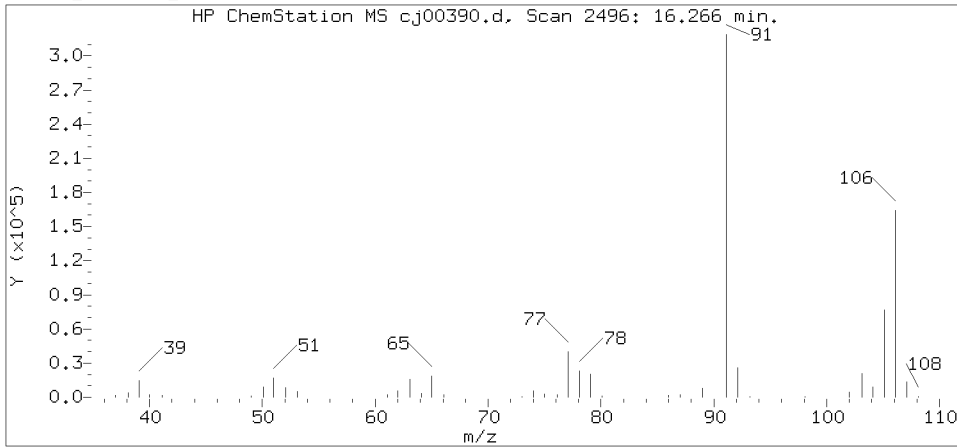
Reference Standard Spectrum for m/p-Xylene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct19.b/cj00390.d
 Injection date and time: 19-OCT-2015 19:35

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct19.b/to-15.m
 Calibration date and time: 19-OCT-2015 16:04
 Date, time and analyst ID of latest file update: 26-Oct-2015 12:34 jbs01304

Sample Name: 1058-

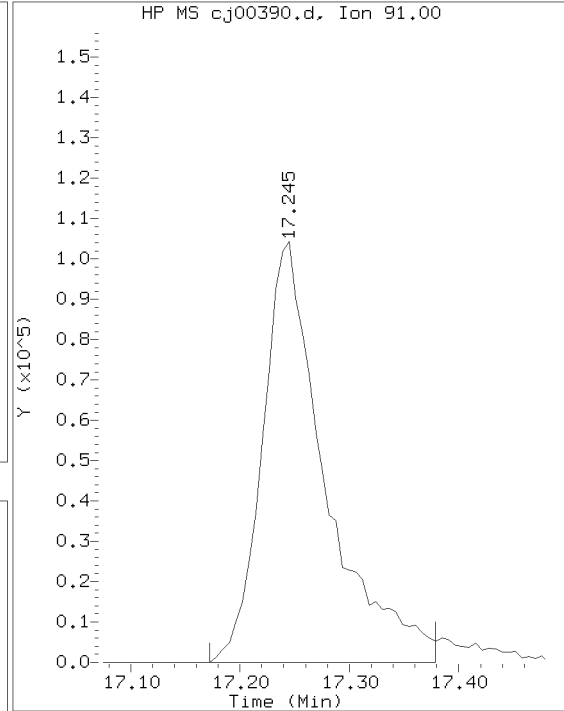
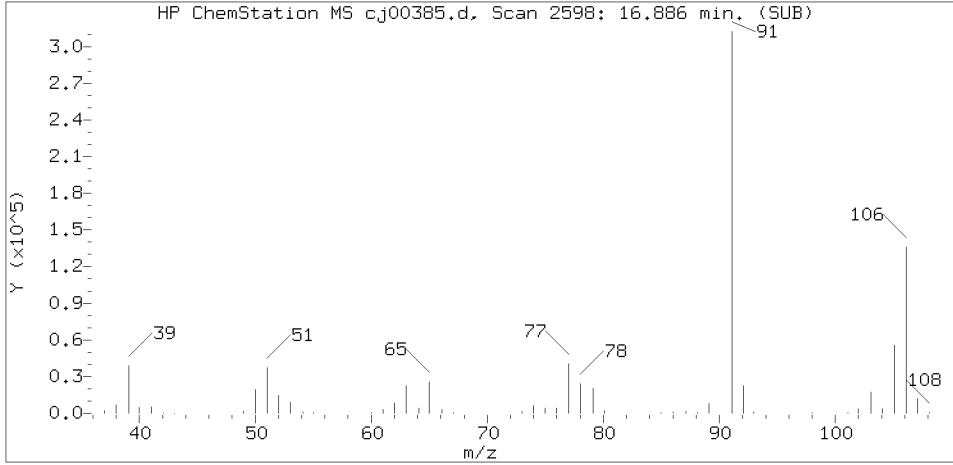
Lab Sample ID: 8087712

Compound Number : 75
 Compound Name : m/p-Xylene
 Scan Number : 2496
 Retention Time (minutes): 16.266
 Relative Retention Time : 0.00041
 Quant Ion : 91.00
 Area (flag) : 1449007
 Concentration (ppb(v)) : 12.1018

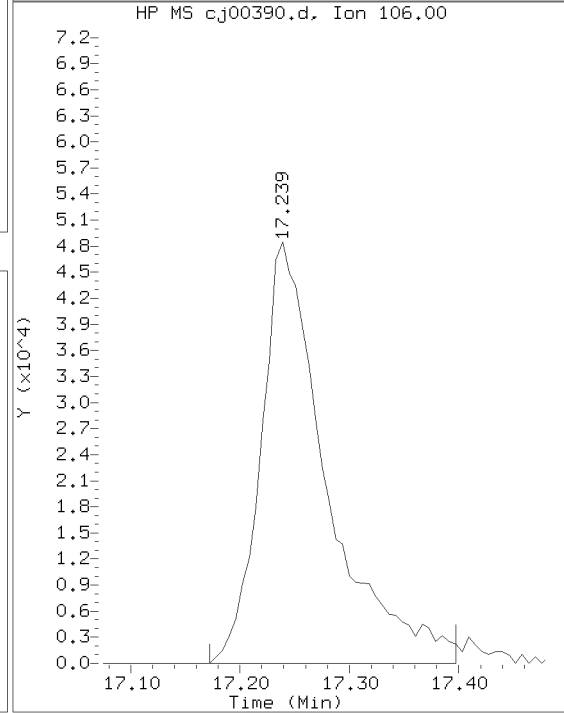
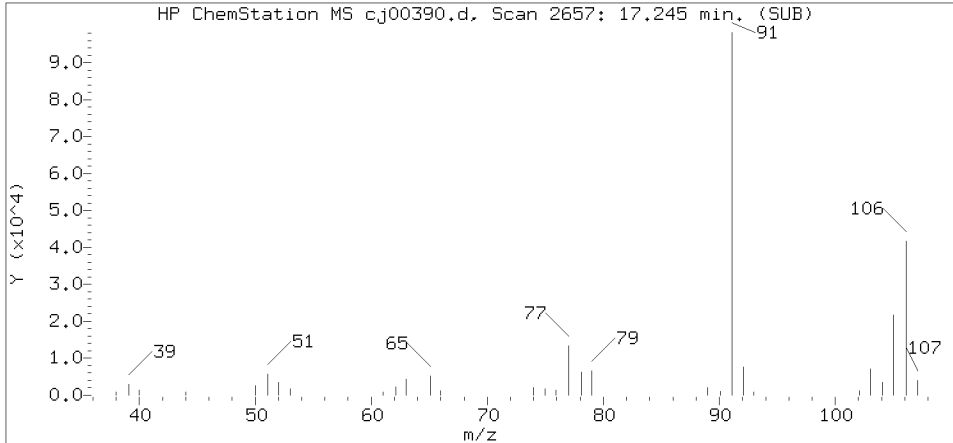
Digitally signed by Jeffrey B. Smith on 10/26/2015 at 12:35.

Target 3.5 esignature user ID: jbs01304
 SSX23 Page 154 of 1243

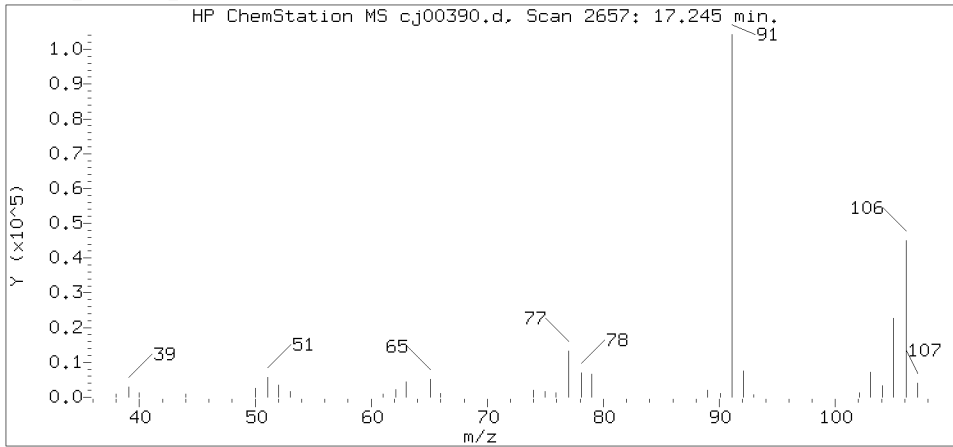
Reference Standard Spectrum for o-Xylene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct19.b/cj00390.d
 Injection date and time: 19-OCT-2015 19:35

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct19.b/to-15.m
 Calibration date and time: 19-OCT-2015 16:04
 Date, time and analyst ID of latest file update: 26-Oct-2015 12:34 jbs01304

Sample Name: 1058-

Lab Sample ID: 8087712

Compound Number : 76
 Compound Name : o-Xylene
 Scan Number : 2657
 Retention Time (minutes): 17.245
 Relative Retention Time : -0.00035
 Quant Ion : 91.00
 Area (flag) : 417768
 Concentration (ppb(v)) : 3.3150

Digitally signed by Jeffrey B. Smith on 10/26/2015 at 12:35.
 Target 3.5 esignature user ID: jbs01304



SDG No.:

Sample Media: CANISTER
Canister ID: 1058
Pressure Received: 27.1 psia
Final Pressure: 13.6 psia
Nominal Volume: 250 cc
Injection Volume: 50 cc
Instrument ID: 09464

Lab Sample ID: 8087712
Lab File ID: cj00390.d
Date Collected: 10/10/2015
Date Received: 10/14/2015
Analyzed Date: 10/19/2015
Analyzed Time: 19:35
Dilution Factor: 10

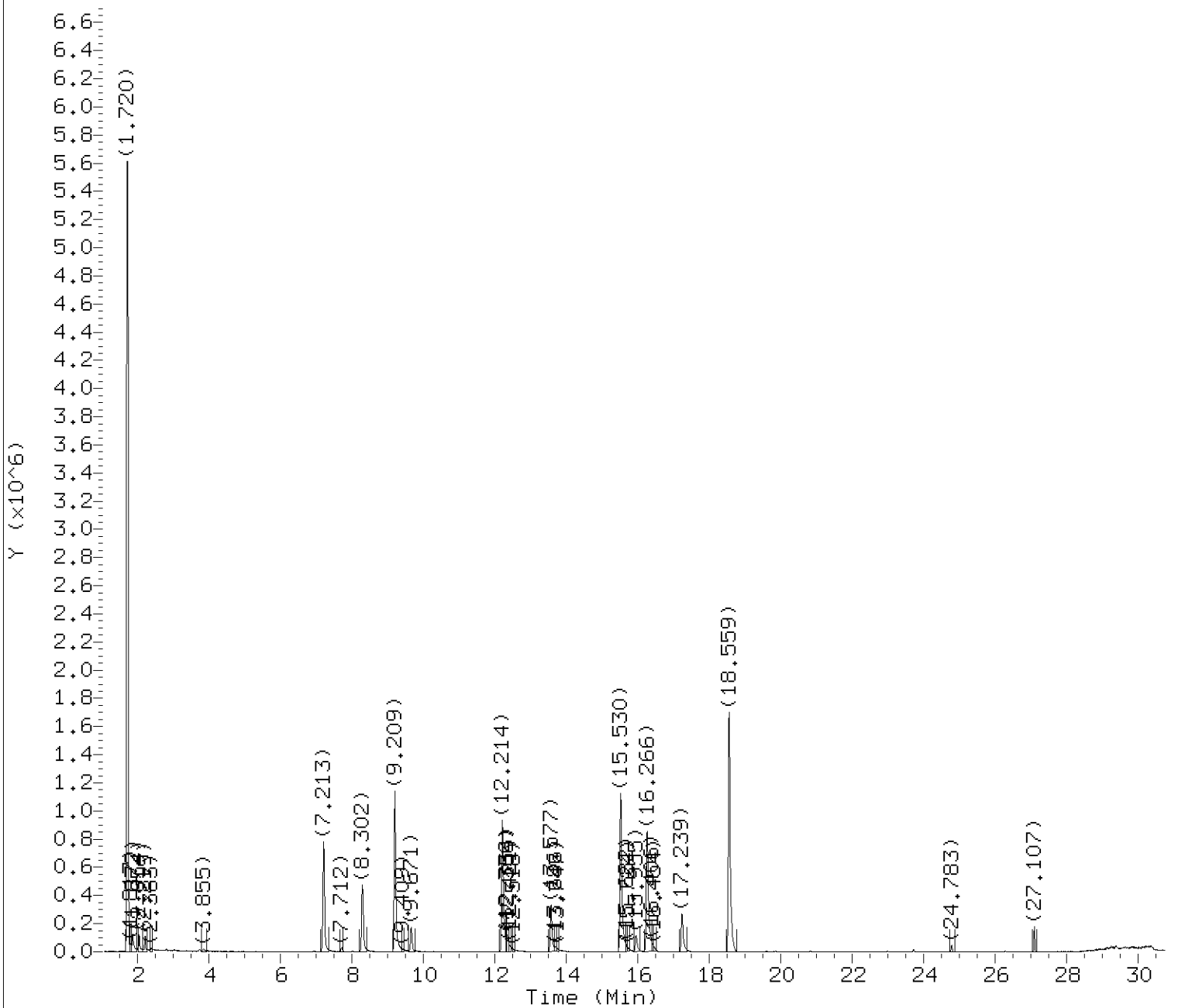
Number TICs Found: 1

Concentration Units: ppb(v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
106-97-8	Butane	2.22	10	J
TOTVOATIC	Total Tics		10	J

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
J = The result is between the MDL and LOQ.



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP09464.i/15oct19.b/cj00390.d
Injection date and time: 19-OCT-2015 19:35

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct19.b/to-15.m
Calibration date and time: 19-OCT-2015 16:04

Sublist used: 292

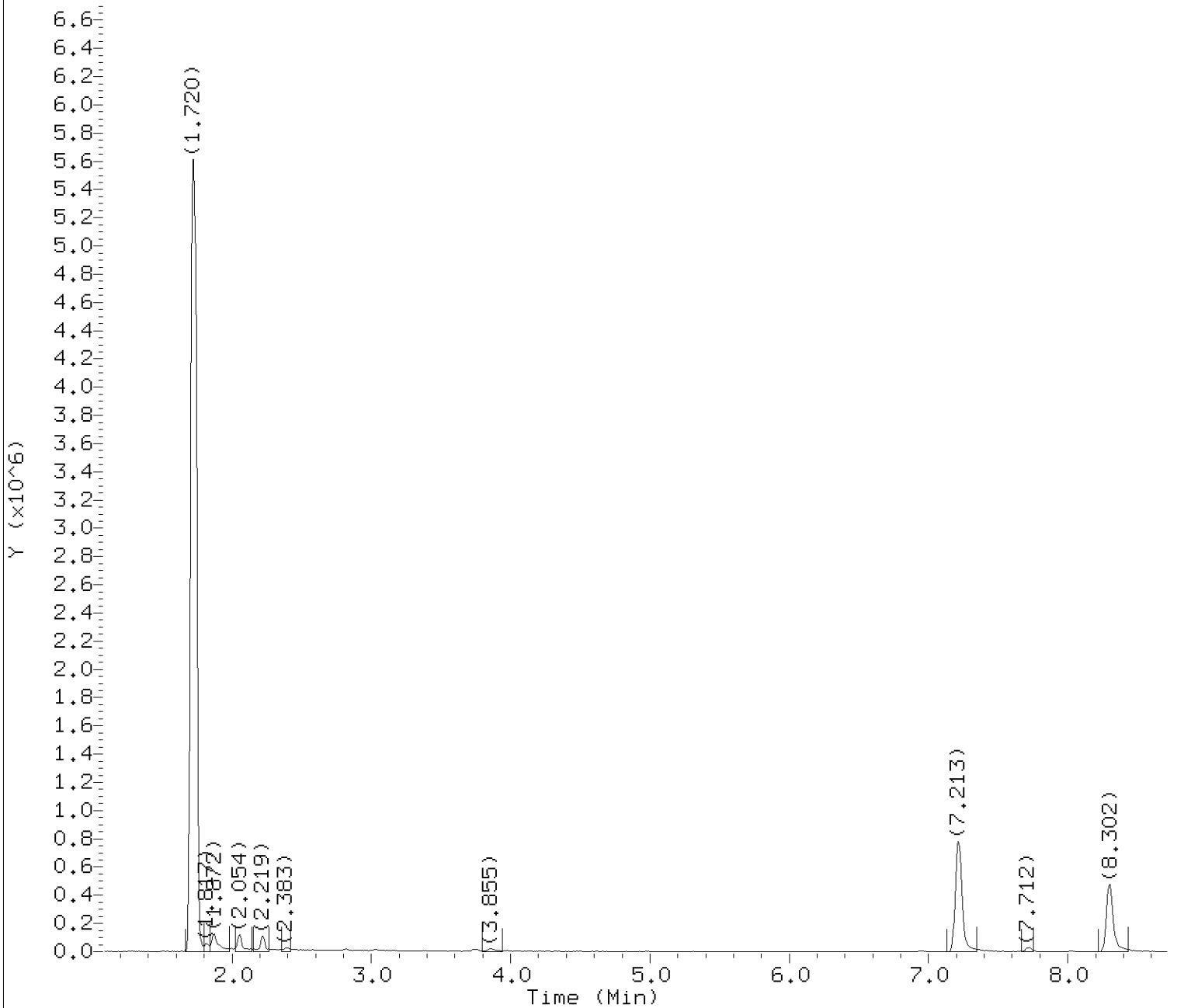
Date, time and analyst ID of latest file update: 26-Oct-2015 12:34 jbs01304

Sample Name: 1058-

Lab Sample ID: 8087712

Chromatogram Start Time (min.): 1.087
Chromatogram End Time (min.): 30.751

Digitally signed by Jeffrey B. Smith on 10/26/2015 at 12:34.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP09464.i/15oct19.b/cj00390.d
Injection date and time: 19-OCT-2015 19:35

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct19.b/to-15.m
Calibration date and time: 19-OCT-2015 16:04

Sublist used: 292

Date, time and analyst ID of latest file update: 26-Oct-2015 12:34 jbs01304

Sample Name: 1058-

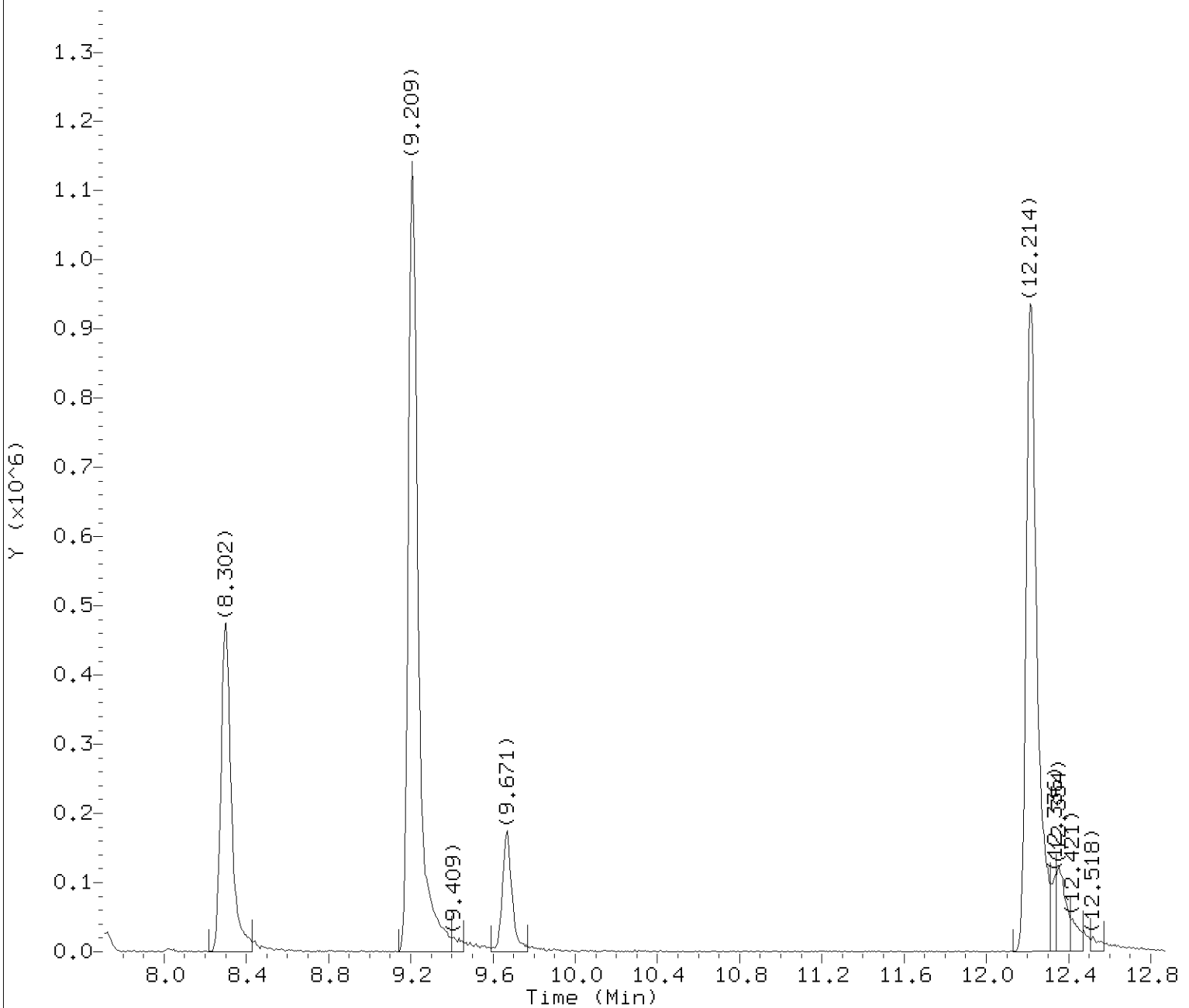
Lab Sample ID: 8087712

Internal Standard referenced: Bromochloromethane at 7.213 minutes

Chromatogram Start Time (min.): 1.087

Chromatogram End Time (min.): 8.211

Digitally signed by Jeffrey B. Smith on 10/26/2015 at 12:34.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP09464.i/15oct19.b/cj00390.d
Injection date and time: 19-OCT-2015 19:35

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct19.b/to-15.m
Calibration date and time: 19-OCT-2015 16:04
Date, time and analyst ID of latest file update: 26-Oct-2015 12:34 jbs01304

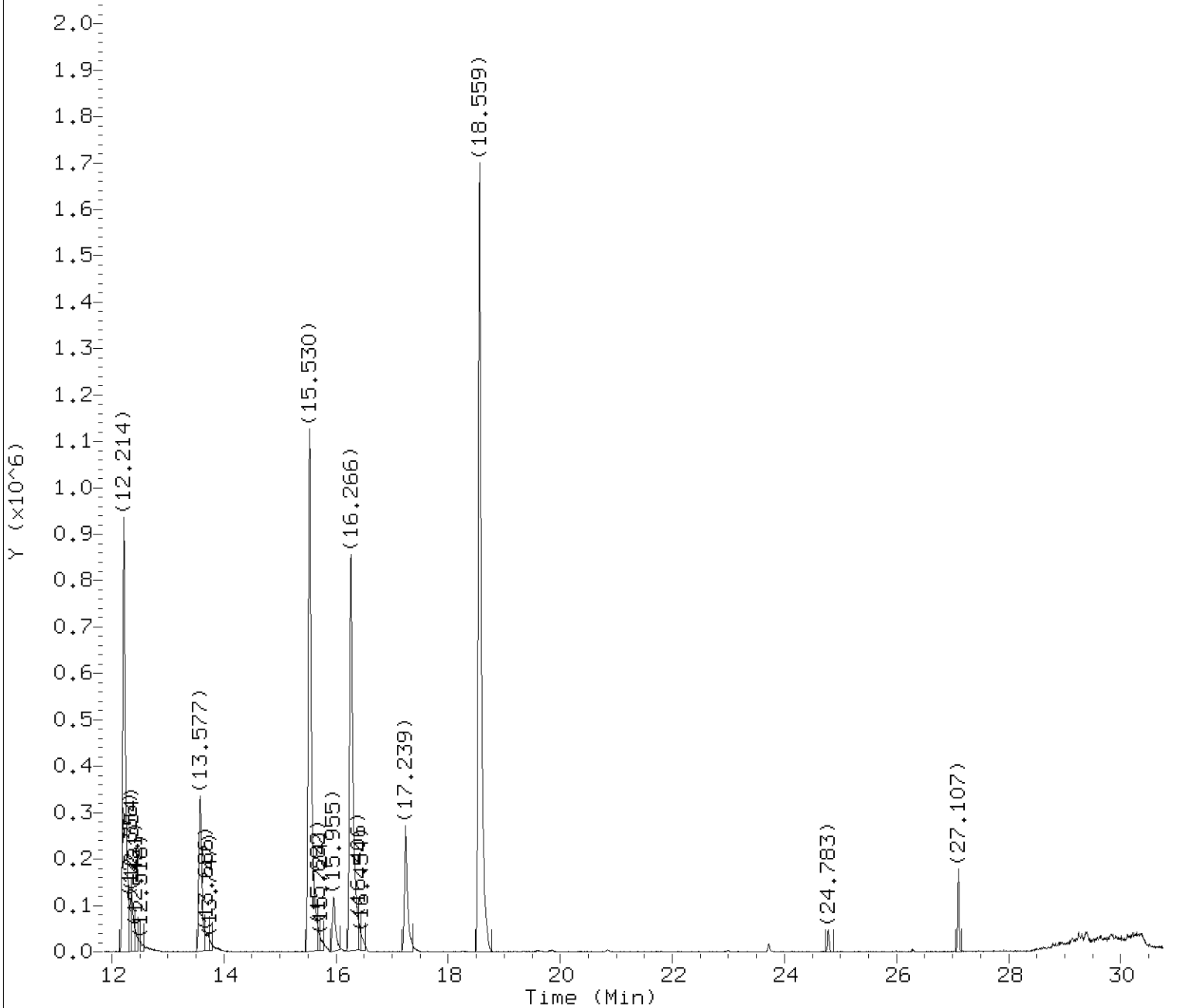
Sublist used: 292

Sample Name: 1058-

Lab Sample ID: 8087712

Internal Standard referenced: 1,4-Difluorobenzene at 9.209 minutes
Chromatogram Start Time (min.): 8.211
Chromatogram End Time (min.): 12.369

Digitally signed by Jeffrey B. Smith on 10/26/2015 at 12:34.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP09464.i/15oct19.b/cj00390.d
Injection date and time: 19-OCT-2015 19:35

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct19.b/to-15.m
Calibration date and time: 19-OCT-2015 16:04

Sublist used: 292

Date, time and analyst ID of latest file update: 26-Oct-2015 12:34 jbs01304

Sample Name: 1058-

Lab Sample ID: 8087712

Internal Standard referenced: Chlorobenzene-d5 at 15.530 minutes
Chromatogram Start Time (min.): 12.369
Chromatogram End Time (min.): 30.751

Digitally signed by Jeffrey B. Smith on 10/26/2015 at 12:34.
Target 3.5 esignature user ID: jbs01304

Lancaster Laboratories, Inc.

Data file : /chem/HP09464.i/15oct19.b/cj00390.d
Lab Smp Id: 8087712 Client Smp ID: 1058-
Inj Date : 19-OCT-2015 19:35
Operator : jeb07445 Inst ID: HP09464.i
Smp Info : 8087712;50;C1528830AC;1058-;0;0;SAMPLE;
Misc Info : cj00386;292.sub;250;13.57;27.14;1058;
Comment :
Method : /chem/HP09464.i/15oct19.b/to-15.m
Meth Date : 26-Oct-2015 12:33 jbs01304 Quant Type: ISTD
Cal Date : 16-OCT-2015 10:21 Cal File: cj00337.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 292.sub
Target Version: 3.50
Processing Host: d30cs01

Concentration Formula: Amt * DF * (Xa/Ya)*(IVn/IVa) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Xa	27.14000	canister pressure absolute after dilutio
Ya	13.57000	canister pressure absolute before diluti
IVn	250.00000	nominal injection volume
IVa	50.00000	actual injection volume

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 40 Bromochloromethane	7.213	2676350	10.000

RT	CONCENTRATIONS			QUAL	QUANT		
	AREA	ON-COL(ppb(v))	FINAL(ppb(v))		LIBRARY	LIB ENTRY	CPND #
====	====	=====	=====	====	=====	=====	=====
Butane				CAS #: 106-97-8			
2.219	278196	1.03945911	10.39459111	25	NIST11.1	232	40

Date : 19-OCT-2015 19:35

Client ID: 1058-

Instrument: HP09464.i

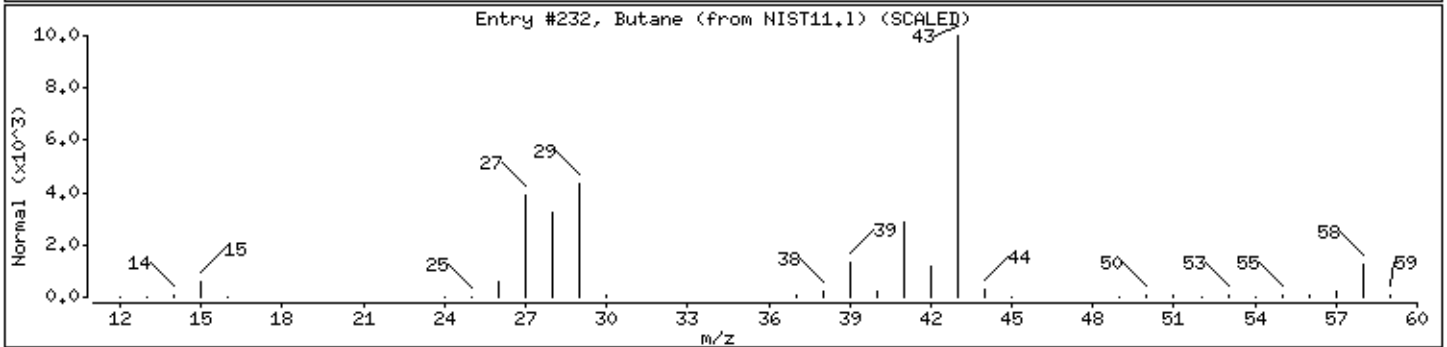
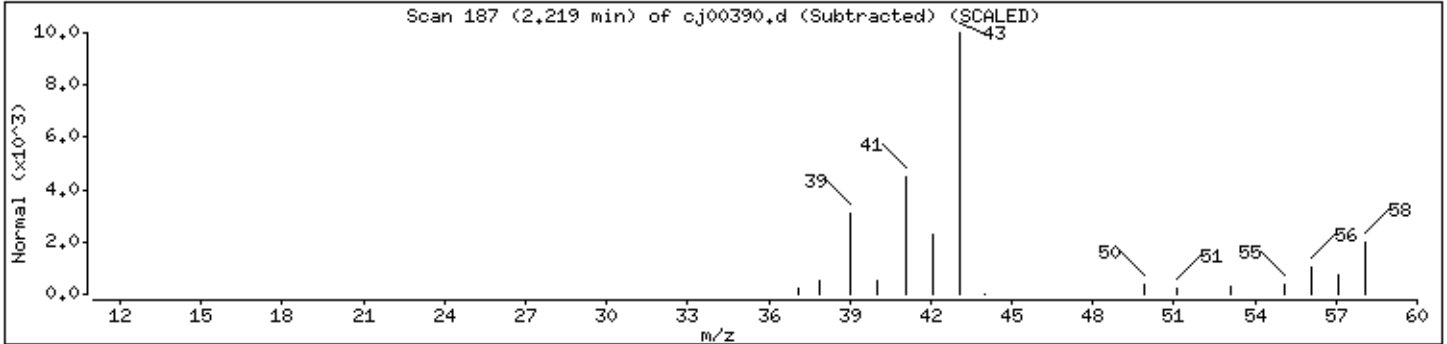
Sample Info: 8087712;50;C1528830AC;1058-;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane	106-97-8	NIST11.1	232	25	C4H10	58



1167-

Lancaster Laboratories, Inc.
 Analysis Summary for GC/MS Volatiles in Air 8087713

Data file: /chem/HP09464.i/15oct16.b/cj00366.d Injection date and time: 17-OCT-2015 03:56
 Data file Sample Info. Line: 8087713;500;C1528830AB;1167-;0;0;SAMPLE; Instrument ID: HP09464.i Batch: C1528830AB
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Blank Data file reference: /chem/HP09464.i/15oct16.b/cj00353.d

Method used: /chem/HP09464.i/15oct16.b/to-15.m Sublist used: 292
 Calibration date and time (Last Method Edit): 29-OCT-2015 11:25
 Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15oct16.b/cj00351.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
 Canister Pressure after dilution (Xa): 27.4 psia Canister Pressure before dilution (Ya): 13.7 psia
 Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 500 cc

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on column)	QC Flag	QC Limits
40) Bromochloromethane	7.207(-0.006)	1007	130	787095 (-2)	10.00		480075 - 1120173
51) 1,4-Difluorobenzene	9.202(-0.012)	1335	114	2492904 (-5)	10.00		1574006 - 3672680
71) Chlorobenzene-d5	15.523(-0.006)	2374	117	2080283 (-13)	10.00		1433482 - 3344790

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Reporting Qual.	Limit (in sample)	LOQ
2) Dichlorodifluoromethane	(1)	1.896(-0.001)	85	130633	0.564	0.56		J	0.2	1
3) Chlorodifluoromethane	(1)	1.908(-0.001)	51	71826	0.970	0.97		J	0.2	1
4) Freon 114	(1)			Not Detected					0.2	1
5) Chloromethane	(1)			Not Detected					0.2	1
6) Vinyl Chloride	(1)			Not Detected					0.2	1
7) 1,3-Butadiene	(1)			Not Detected					0.4	2
8) Bromomethane	(1)			Not Detected					0.2	1
9) Chloroethane	(1)			Not Detected					0.2	1
11) Dichlorofluoromethane	(1)			Not Detected					0.2	1
12) Trichlorofluoromethane	(1)	3.022(-0.001)	101	61704	0.247	0.25		J	0.2	1
13) Pentane	(1)	3.137(-0.001)	43	10010	0.236	0.24		J	0.2	1
17) 1,1-Dichloroethene	(1)			Not Detected					0.2	1
18) Freon 113	(1)	3.733(-0.001)	103	75269	0.760	0.76		J	0.5	2
19) Acetone	(1)	3.782(-0.000)	43	1130836	34.934	34.93			0.5	2
21) Carbon Disulfide	(1)			Not Detected					0.5	1
24) 3-Chloropropene	(1)			Not Detected					0.2	1
25) Methylene Chloride	(1)			Not Detected					0.2	1
28) trans-1,2-Dichloroethene	(1)			Not Detected					0.2	1
29) Methyl t-Butyl Ether	(1)			Not Detected					0.2	1
30) Hexane	(1)			Not Detected					0.2	1
31) 1,1-Dichloroethane	(1)			Not Detected					0.2	1
35) cis-1,2-Dichloroethene	(1)			Not Detected					0.2	1
37) 2-Butanone	(1)	6.872(-0.000)	72	80853	5.142	5.14			0.5	2
42) Chloroform	(1)	7.414(-0.000)	83	52076	0.349	0.35		J	0.2	1
43) 1,1,1-Trichloroethane	(1)	7.712(-0.000)	97	602786	3.556	3.56			0.2	1
45) Carbon Tetrachloride	(1)			Not Detected					0.2	1
46) Benzene	(2)	8.399(0.000)	78	90058	0.590	0.59		J	0.2	1
47) 1,2-Dichloroethane	(2)			Not Detected					0.2	1
48) Isooctane	(2)			Not Detected					0.2	1
50) Heptane	(2)	9.062(-0.000)	43	24799	0.627	0.63		J	0.2	1
52) Trichloroethene	(2)	9.665(0.000)	130	2032170	19.455	19.45			0.2	1
54) 1,2-Dichloropropane	(2)			Not Detected					0.2	1
55) Dibromomethane	(2)			Not Detected					0.2	1
58) Bromodichloromethane	(2)			Not Detected					0.2	1
59) cis-1,3-Dichloropropene	(2)			Not Detected					0.2	1
60) 4-Methyl-2-Pentanone	(2)	12.080(-0.000)	43	31752	0.799	0.80		J	0.5	2
61) Toluene	(3)	12.348(-0.000)	91	2644201	16.279	16.28			0.2	1
62) Octane	(3)			Not Detected					0.2	1
63) trans-1,3-Dichloropropene	(3)			Not Detected					0.2	1
66) 1,1,2-Trichloroethane	(3)			Not Detected					0.2	1
67) Tetrachloroethene	(3)	13.576(-0.000)	166	4194605	30.332	30.33			0.2	1
68) 2-Hexanone	(3)			Not Detected					0.5	2
69) Dibromochloromethane	(3)			Not Detected					0.2	1

1167-

Lancaster Laboratories, Inc.
 Analysis Summary for GC/MS Volatiles in Air 8087713

Data file: /chem/HP09464.i/15oct16.b/cj00366.d Injection date and time: 17-OCT-2015 03:56
 Data file Sample Info. Line: 8087713;500;C1528830AB;1167-;0;0;SAMPLE; Instrument ID: HP09464.i Batch: C1528830AB
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Blank Data file reference: /chem/HP09464.i/15oct16.b/cj00353.d

Method used: /chem/HP09464.i/15oct16.b/to-15.m Sublist used: 292
 Calibration date and time (Last Method Edit): 29-OCT-2015 11:25
 Mid Level Daily Calibration Standard Reference: /chem/HP09464.i/15oct16.b/cj00351.d

Sampling Media: Summa Canister Matrix: AIR On-Column Amount units: ppb(v) In Sample Concentration units: ppb(v)

Sample Concentration Formula: On-Column Amount * DF * (Xa/Ya)*(IVn/IVa) Dilution Factor (DF): 1
 Canister Pressure after dilution (Xa): 27.4 psia Canister Pressure before dilution (Ya): 13.7 psia
 Nominal Injection Volume (IVn): 250 cc Actual injection Volume (IVa): 500 cc

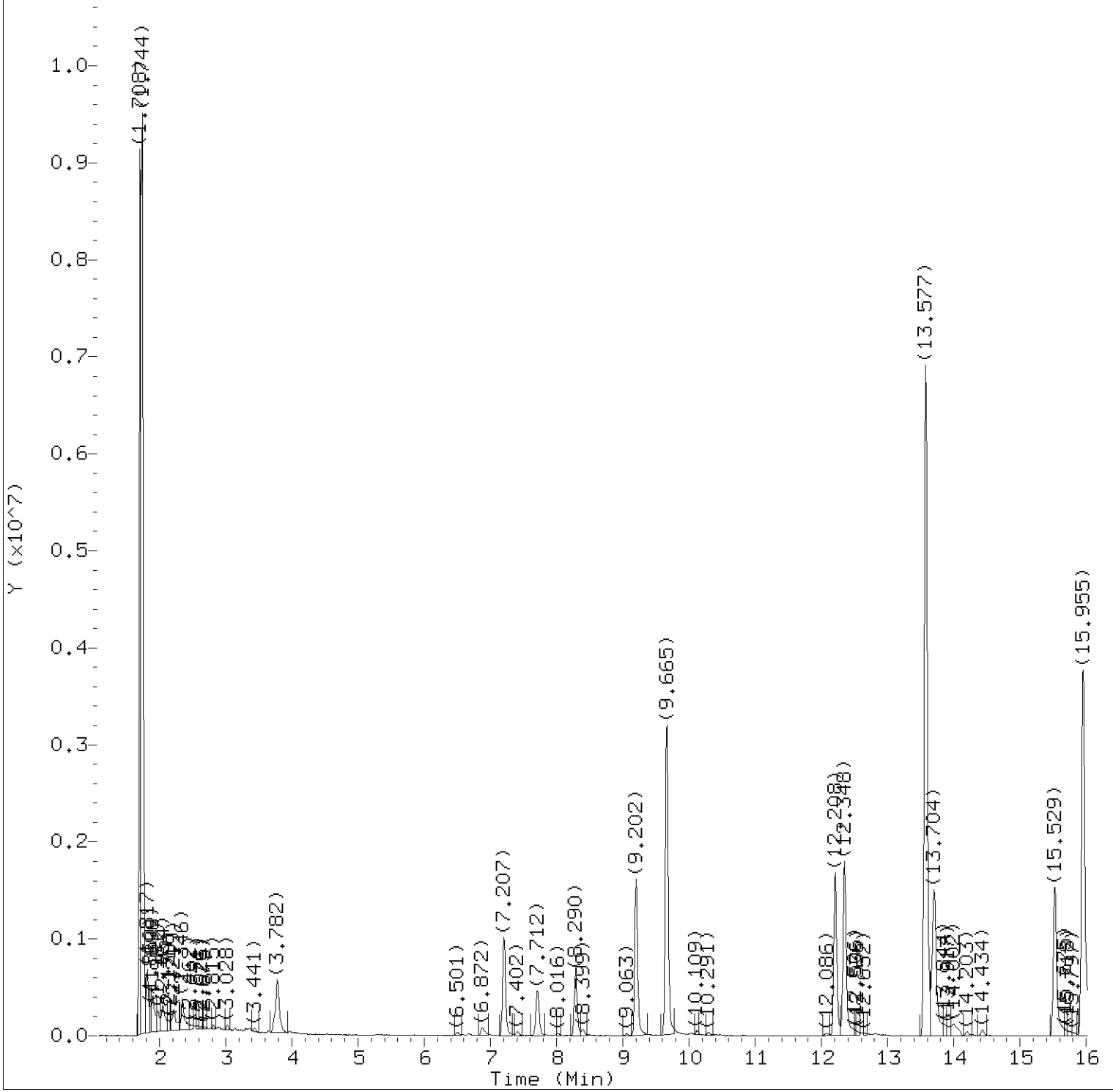
Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
70) 1,2-Dibromoethane	(3)			Not Detected					0.2	1
72) Chlorobenzene	(3)			Not Detected					0.2	1
73) 1,1,1,2-Tetrachloroethane	(3)			Not Detected					0.2	1
74) Ethylbenzene	(3)	15.955(0.000)	91	6600872	36.782	36.78			0.2	1
75) m/p-Xylene	(3)	16.272(-0.000)	91	26475873	178.397	178.40		E	0.2	1
76) o-Xylene	(3)	17.239(0.000)	91	11202965	71.720	71.72		E	0.2	1
78) Styrene	(3)			Not Detected					0.2	1
79) Bromoform	(3)			Not Detected					0.2	1
80) Cumene	(3)	18.255(-0.000)	105	228799	1.140	1.14			0.2	1
81) Bromobenzene	(3)			Not Detected					0.2	1
82) 1,1,2,2-Tetrachloroethane	(3)			Not Detected					0.2	1
83) 1,2,3-Trichloropropane	(3)			Not Detected					0.2	1
86) 4-Ethyltoluene	(3)	19.660(0.000)	105	172068MA	0.769	0.77		J	0.2	1
87) 1,3,5-Trimethylbenzene	(3)	19.867(-0.000)	105	186523	0.968	0.97		J	0.2	1
90) 1,2,4-Trimethylbenzene	(3)	20.840(0.000)	105	437895	2.189	2.19			0.2	1
92) 1,3-Dichlorobenzene	(3)			Not Detected					0.2	1
93) 1,4-Dichlorobenzene	(3)			Not Detected					0.2	1
96) 1,2-Dichlorobenzene	(3)			Not Detected					0.2	1
98) Hexachloroethane	(3)			Not Detected					0.2	1

E = Compound concentration above calibration range. M = Compound was manually integrated. A = User selected an alternate peak.

Total number of targets = 62

Digitally signed by Jacob E. Bailey on 10/30/2015 at 16:23. Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 11/06/2015 at 07:00. Parallax ID: mjs00758



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00366.d
Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
Calibration date and time: 29-OCT-2015 11:25

Sublist used: 292

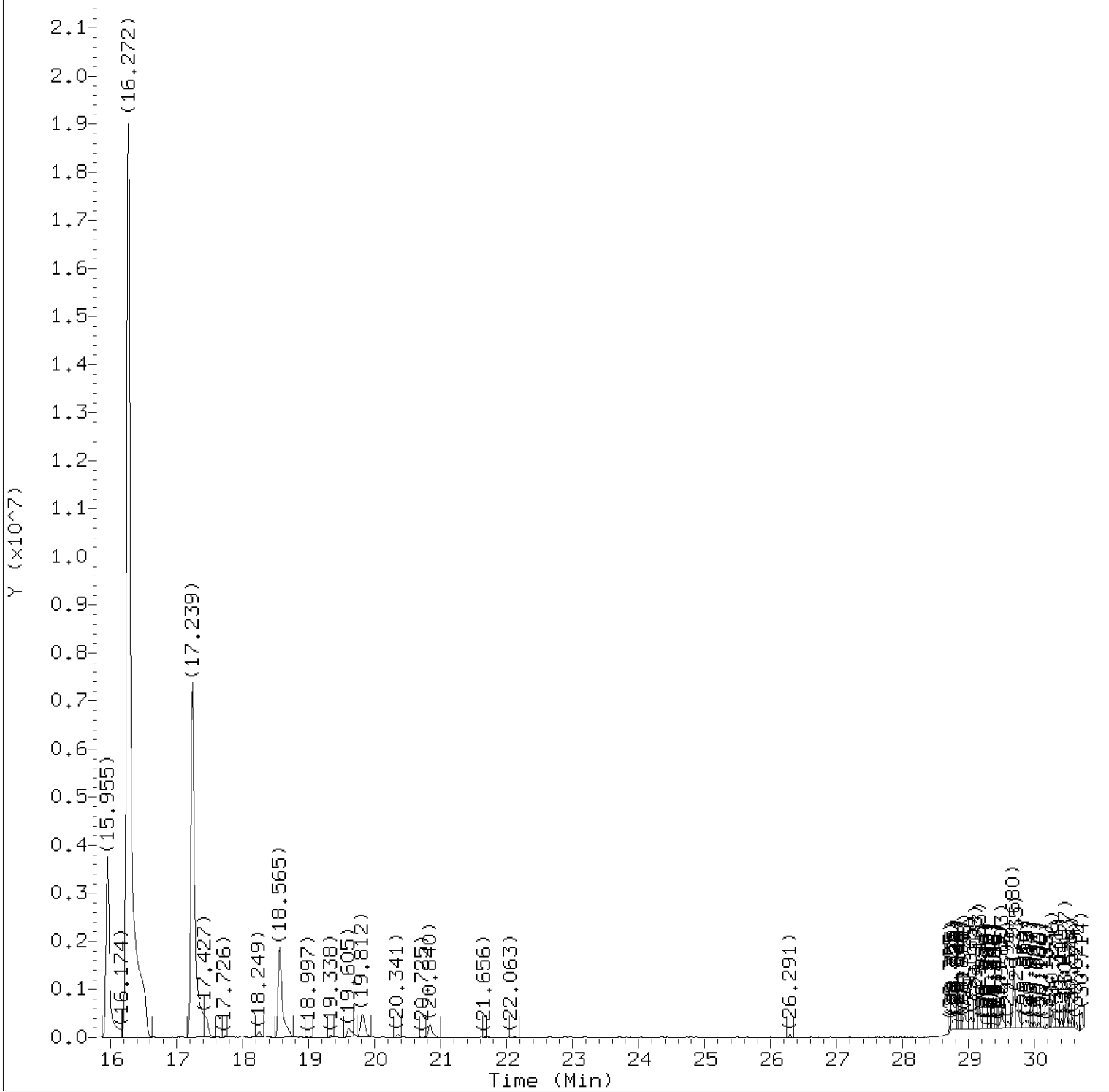
Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Sample Name: 1167-

Lab Sample ID: 8087713

Digitally signed by Jacob E. Bailey
on 10/30/2015 at 16:23.

Target 3.5 esignature user ID: jeb07445



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00366.d
Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
Calibration date and time: 29-OCT-2015 11:25

Sublist used: 292

Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Sample Name: 1167-

Lab Sample ID: 8087713

Digitally signed by Jacob E. Bailey
on 10/30/2015 at 16:23.

Target 3.5 esignature user ID: jeb07445

Quant Report

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25

Sublist used: 292

Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Sample Name: 1167-

Lab Sample ID: 8087713

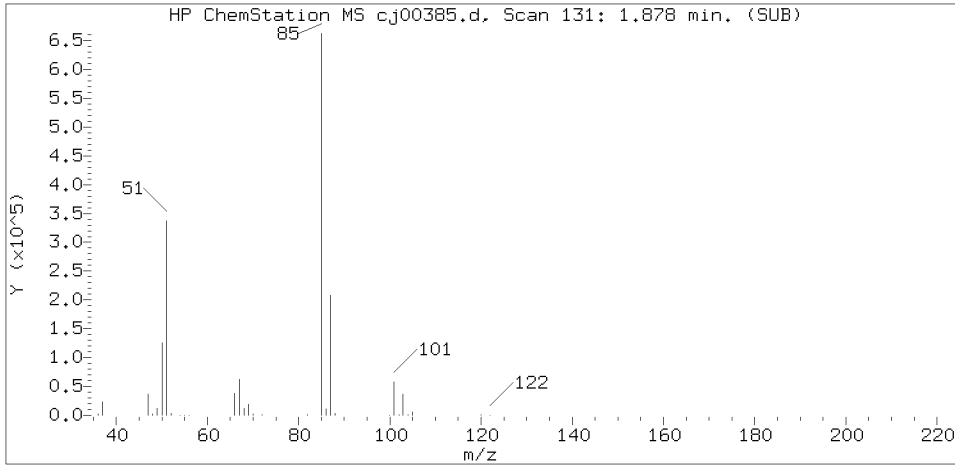
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Concentration (ppb(v))
2) Dichlorodifluoromethane	(1)	1.896	85	130633	0.564
3) Chlorodifluoromethane	(1)	1.908	51	71826	0.970
12) Trichlorofluoromethane	(1)	3.022	101	61704	0.247
13) Pentane	(1)	3.137	43	10010	0.236
18) Freon 113	(1)	3.733	103	75269	0.760
19) Acetone	(1)	3.782	43	1130836	34.934
37) 2-Butanone	(1)	6.872	72	80853	5.142
40)*Bromochloromethane	(1)	7.207	130	787095	10.000
42) Chloroform	(1)	7.414	83	52076	0.349
43) 1,1,1-Trichloroethane	(1)	7.712	97	602786	3.556
46) Benzene	(2)	8.399	78	90058	0.590
50) Heptane	(2)	9.063	43	24799	0.627
51)*1,4-Difluorobenzene	(2)	9.202	114	2492904	10.000
52) Trichloroethene	(2)	9.665	130	2032170	19.455
60) 4-Methyl-2-Pentanone	(2)	12.080	43	31752	0.799
61) Toluene	(3)	12.348	91	2644201	16.279
67) Tetrachloroethene	(3)	13.577	166	4194605	30.332
71)*Chlorobenzene-d5	(3)	15.523	117	2080283	10.000
74) Ethylbenzene	(3)	15.955	91	6600872	36.782
75) m/p-Xylene	(3)	16.272	91	26475873	178.397
76) o-Xylene	(3)	17.239	91	11202965	71.720
80) Cumene	(3)	18.255	105	228799	1.140
86) 4-Ethyltoluene	(3)	19.660	105	172068MA	0.769
87) 1,3,5-Trimethylbenzene	(3)	19.867	105	186523	0.968
90) 1,2,4-Trimethylbenzene	(3)	20.840	105	437895	2.189

M = Compound was manually integrated.

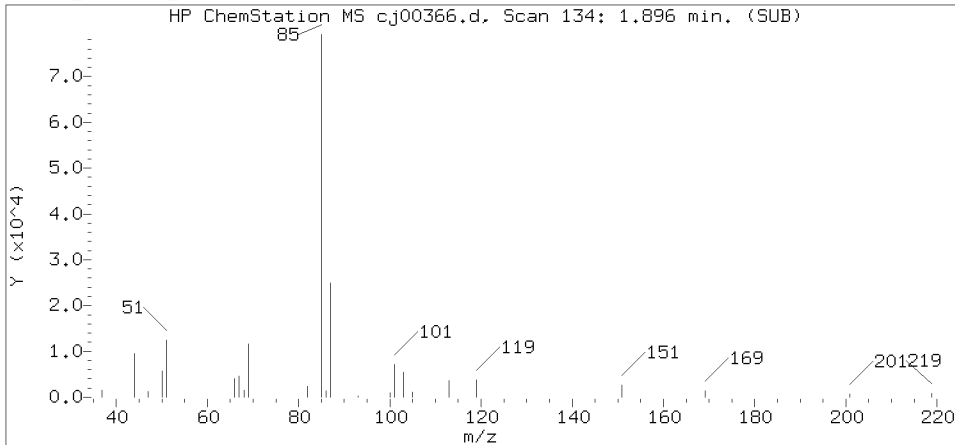
A = User selected an alternate hit.

* = Compound is an internal standard.

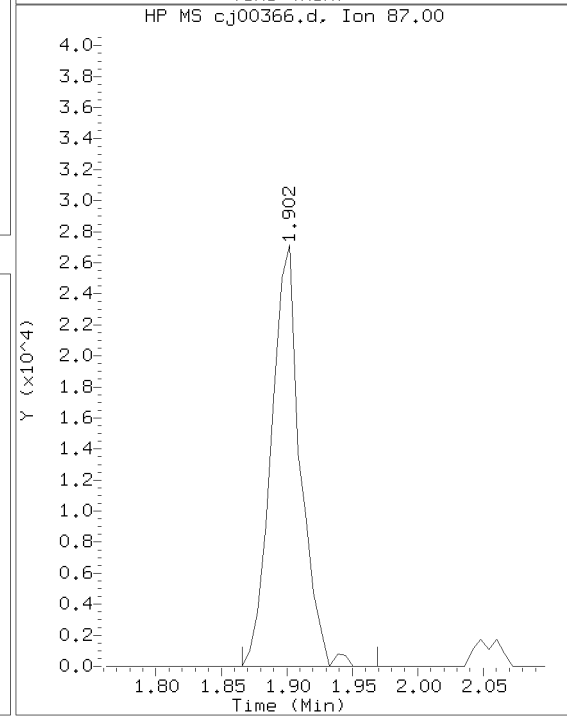
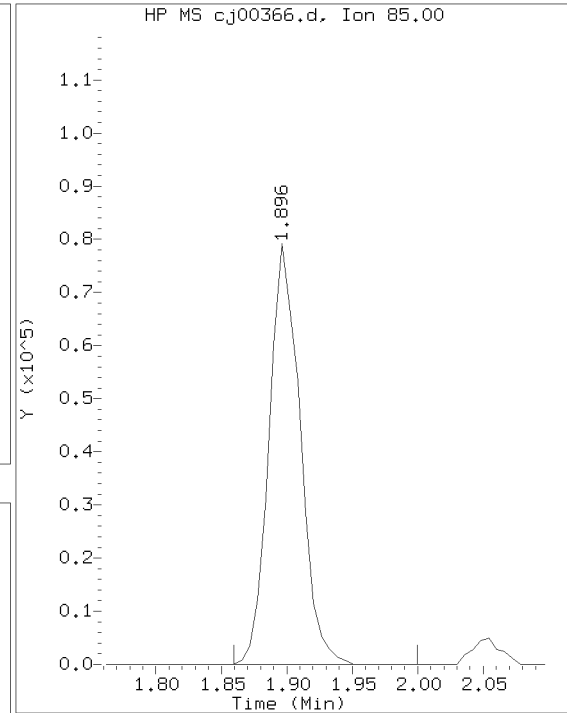
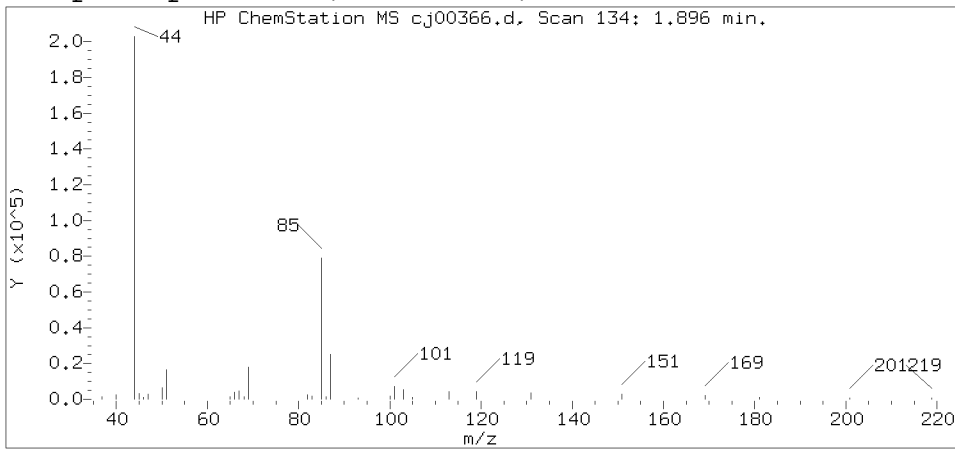
Reference Standard Spectrum for Dichlorodifluoromethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

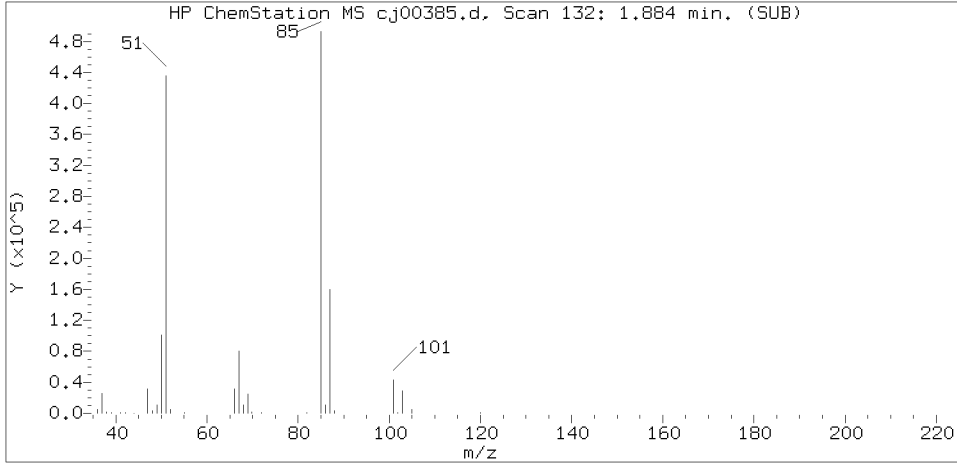
Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

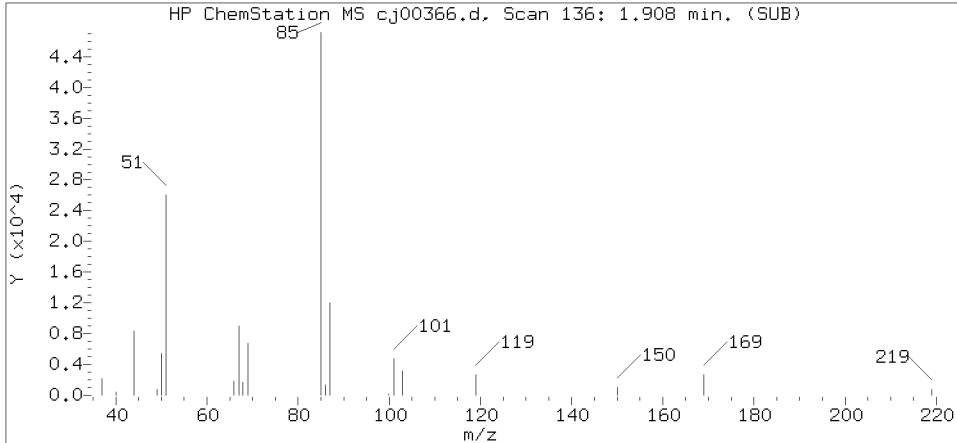
Sample Name: 1167- Lab Sample ID: 8087713

Compound Number : 2
 Compound Name : Dichlorodifluoromethane
 Scan Number : 134
 Retention Time (minutes): 1.896
 Relative Retention Time : -0.00147
 Quant Ion : 85.00
 Area (flag) : 130633
 Concentration (ppb(v)) : 0.5640

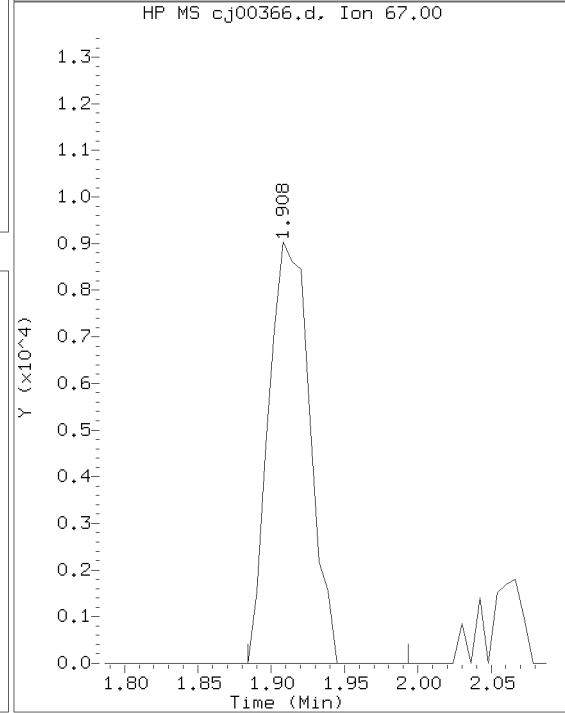
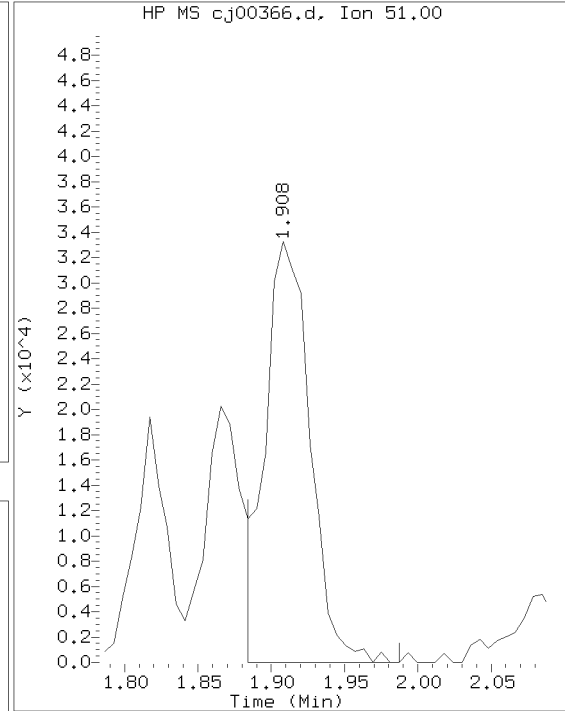
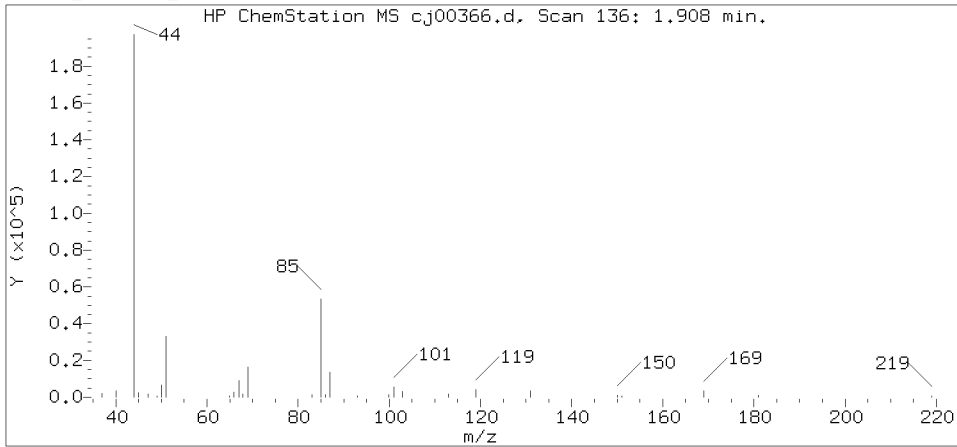
Reference Standard Spectrum for Chlorodifluoromethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

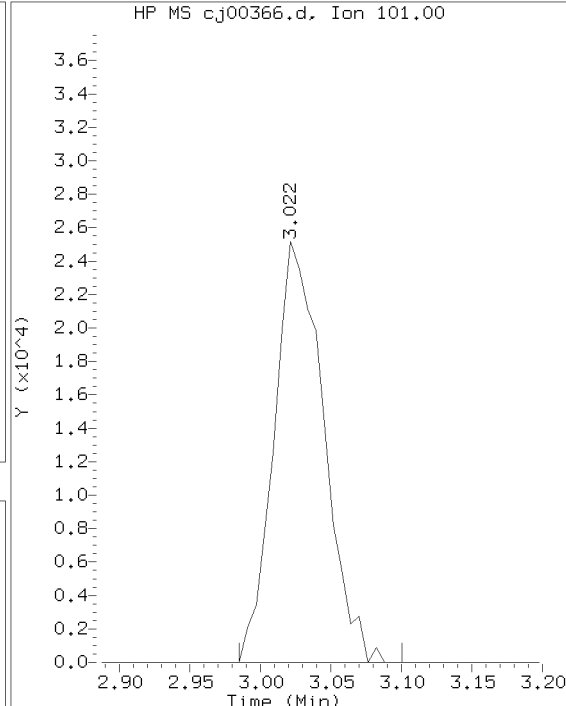
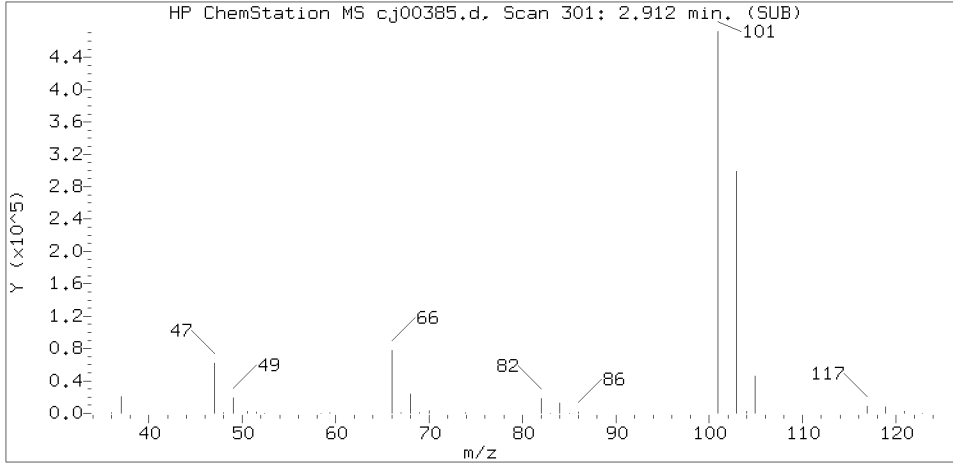
Sample Name: 1167- Lab Sample ID: 8087713

Compound Number : 3
 Compound Name : Chlorodifluoromethane
 Scan Number : 136
 Retention Time (minutes): 1.908
 Relative Retention Time : -0.00147
 Quant Ion : 51.00
 Area (flag) : 71826
 Concentration (ppb(v)) : 0.9703

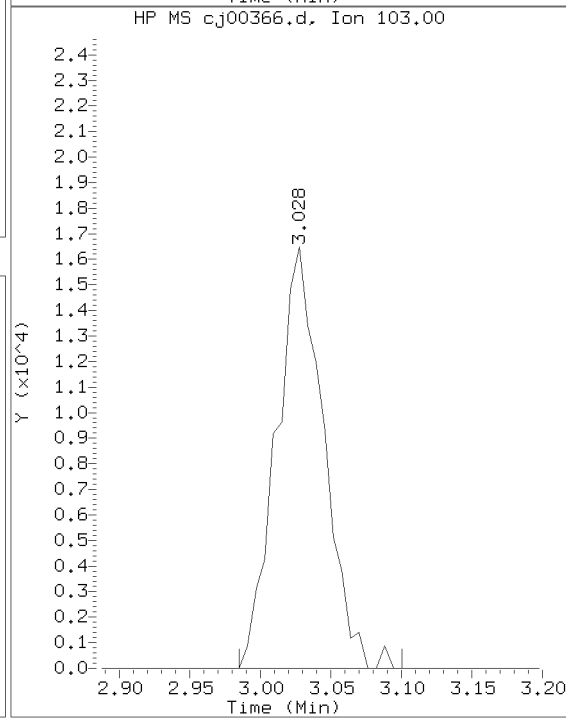
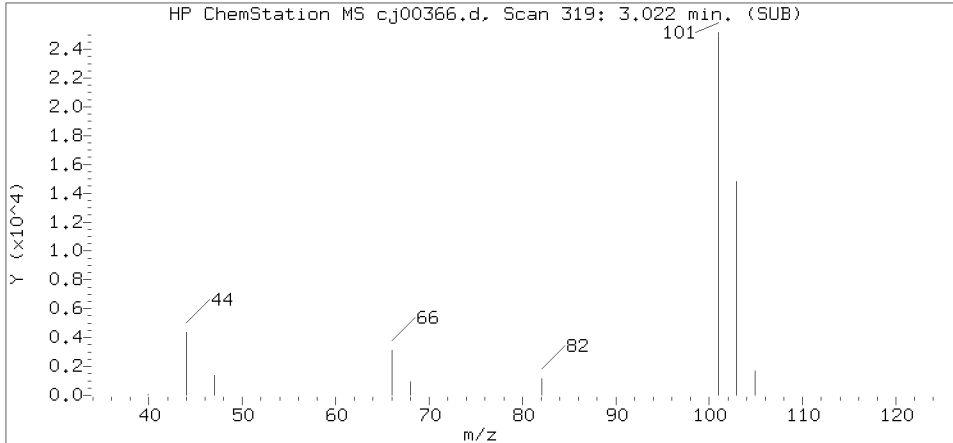
Digitally signed by Jacob E. Bailey on 10/30/2015 at 16:23.

Target 3.5 esignature user: jeb07445
 SSX23 Page 169 of 1243

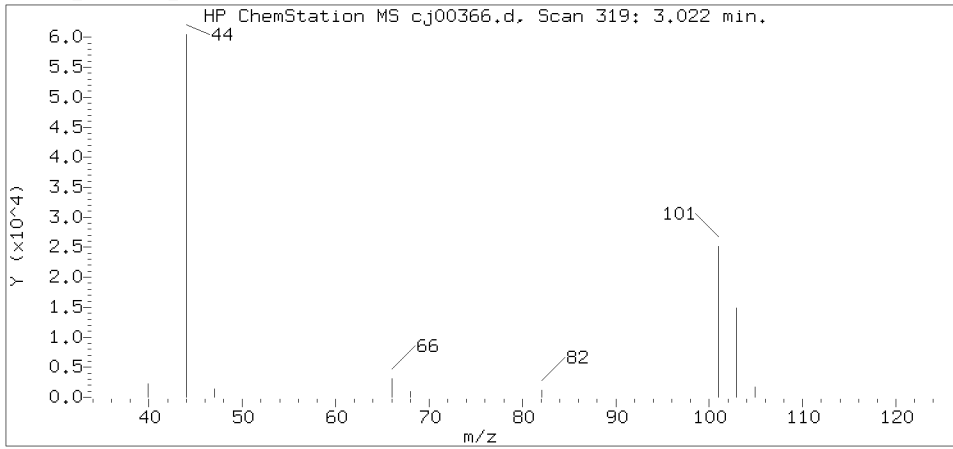
Reference Standard Spectrum for Trichlorofluoromethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

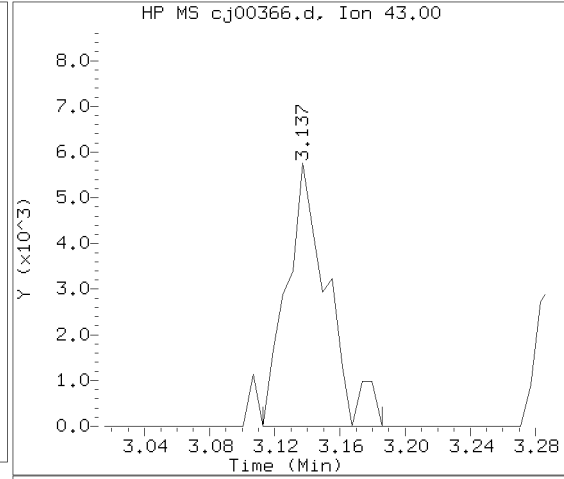
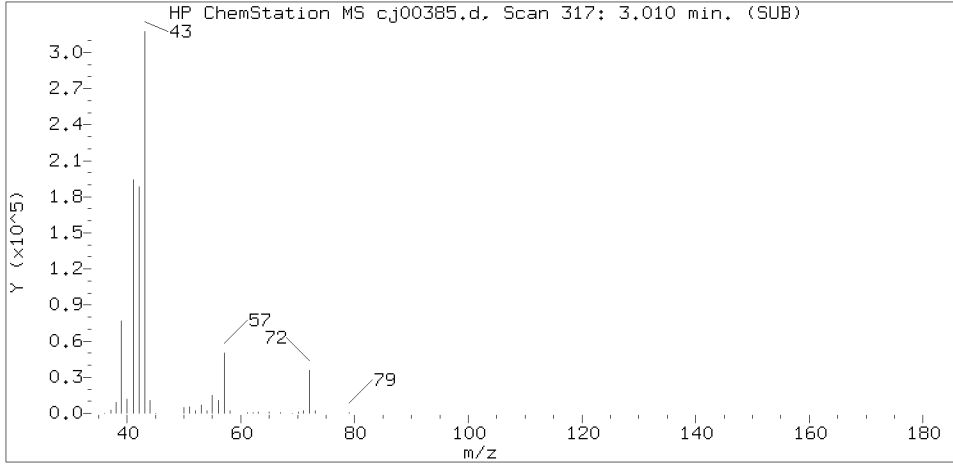
Sample Name: 1167- Lab Sample ID: 8087713

Compound Number : 12
 Compound Name : Trichlorofluoromethane
 Scan Number : 319
 Retention Time (minutes): 3.022
 Relative Retention Time : -0.00134
 Quant Ion : 101.00
 Area (flag) : 61704
 Concentration (ppb(v)) : 0.2471

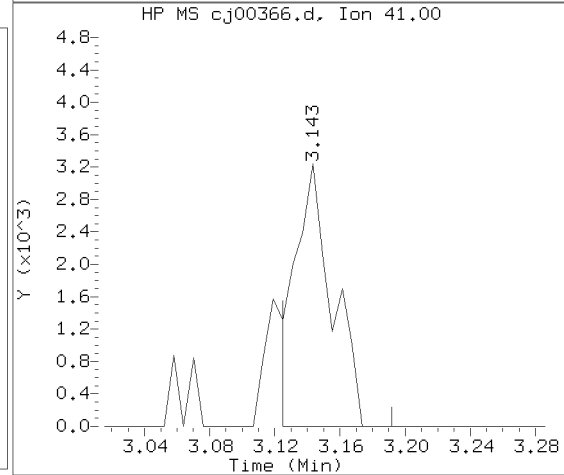
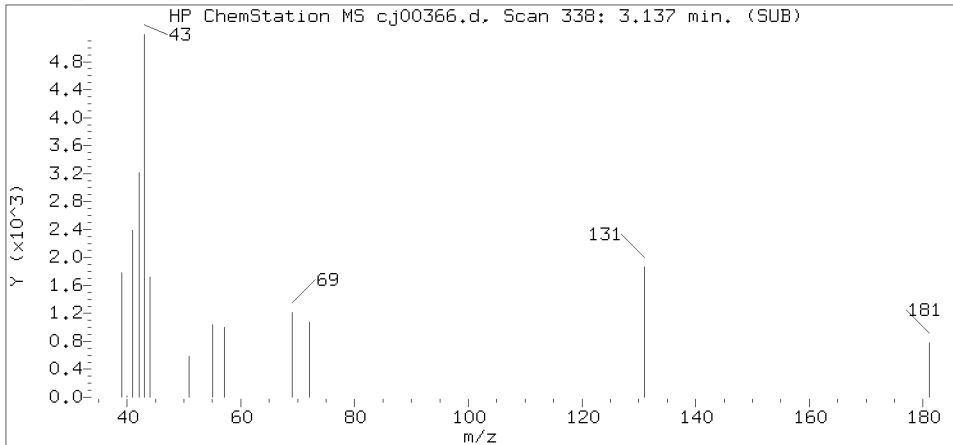
Digitally signed by Jacob E. Bailey on 10/30/2015 at 16:23.

Target 3.5 esignature user ID: jeb07445
 SSX23 Page 170 of 1243

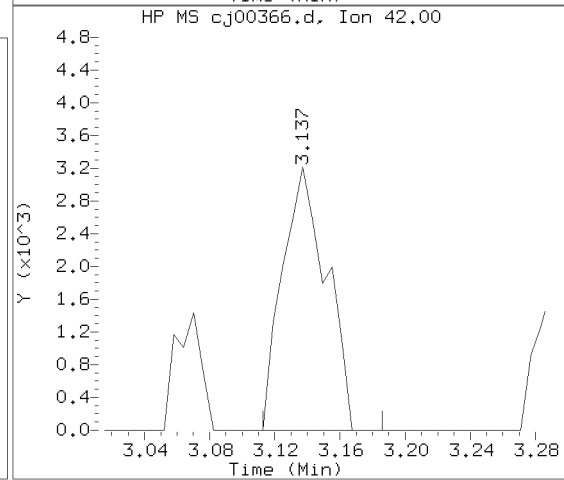
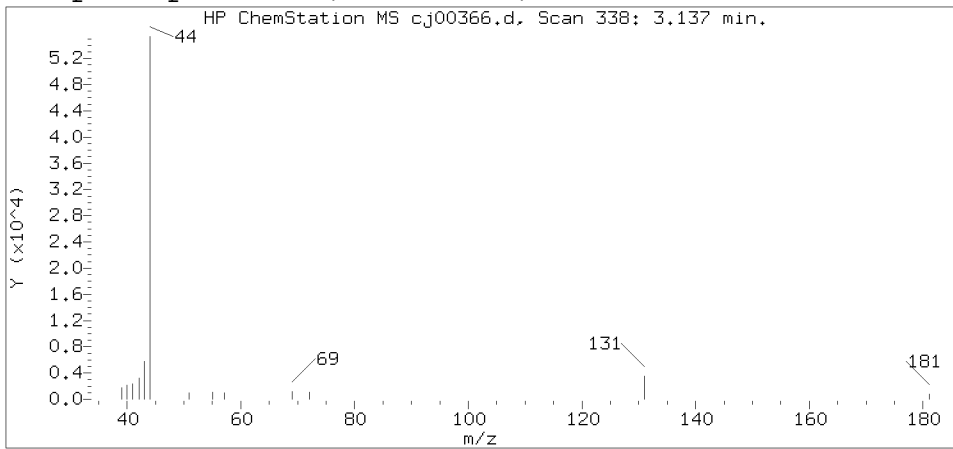
Reference Standard Spectrum for Pentane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Sample Name: 1167-

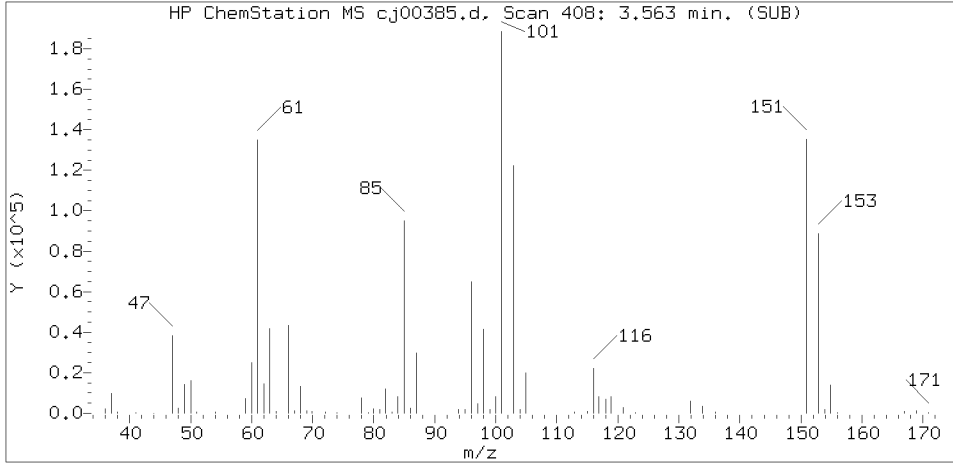
Lab Sample ID: 8087713

Compound Number : 13
 Compound Name : Pentane
 Scan Number : 338
 Retention Time (minutes): 3.137
 Relative Retention Time : -0.00133
 Quant Ion : 43.00
 Area (flag) : 10010
 Concentration (ppb(v)) : 0.2358

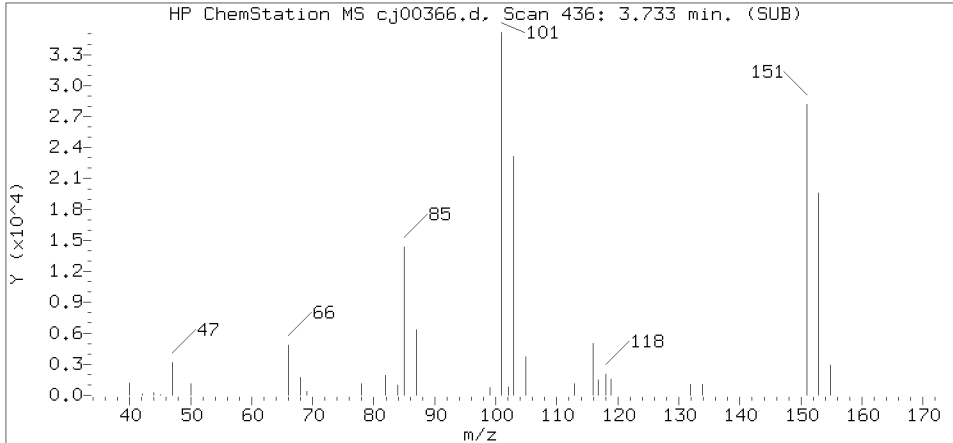
Digitally signed by Jacob E. Bailey on 10/30/2015 at 16:23.

Target 3.5 esignature user: jeb07445
 SSX23 Page 171 of 1243

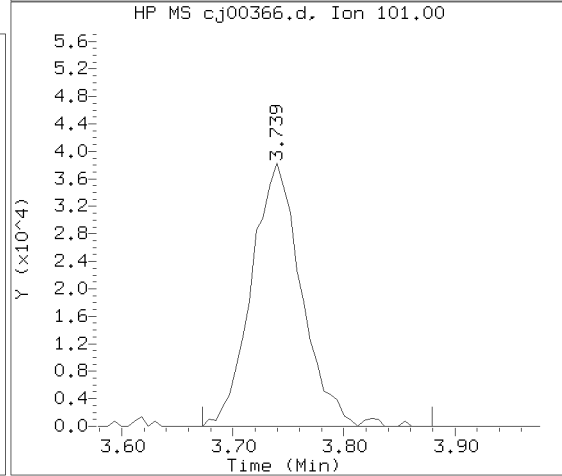
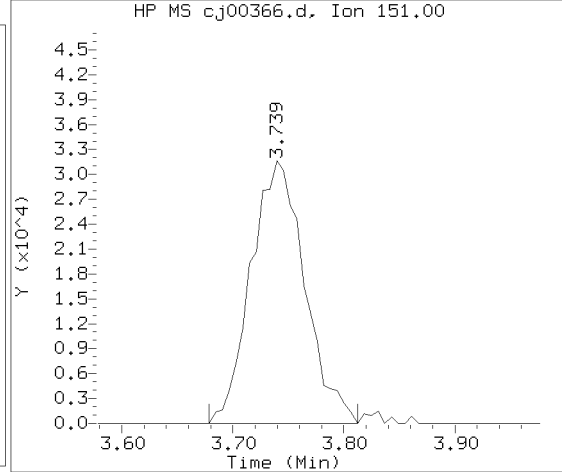
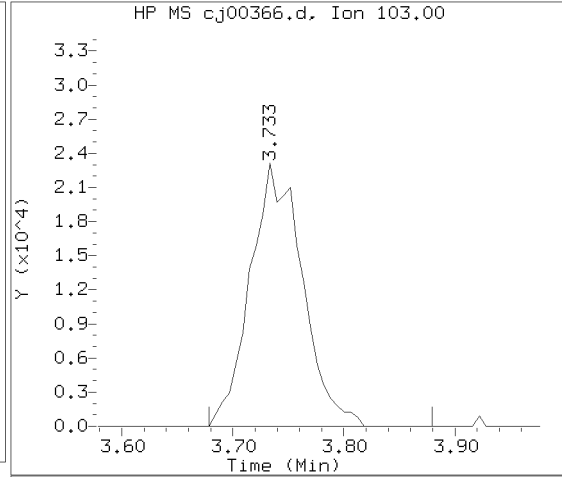
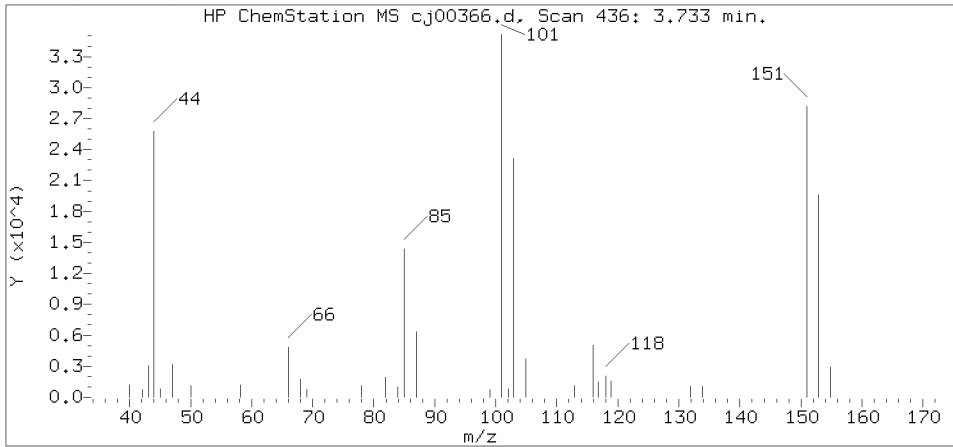
Reference Standard Spectrum for Freon 113



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Sample Name: 1167-

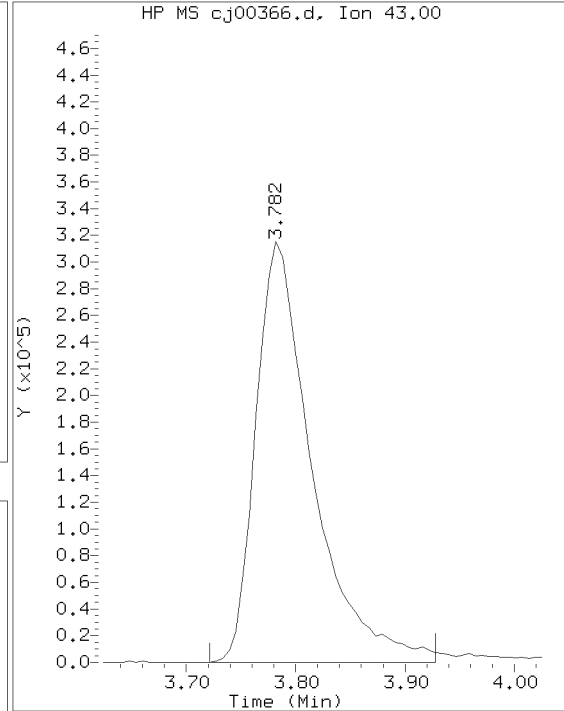
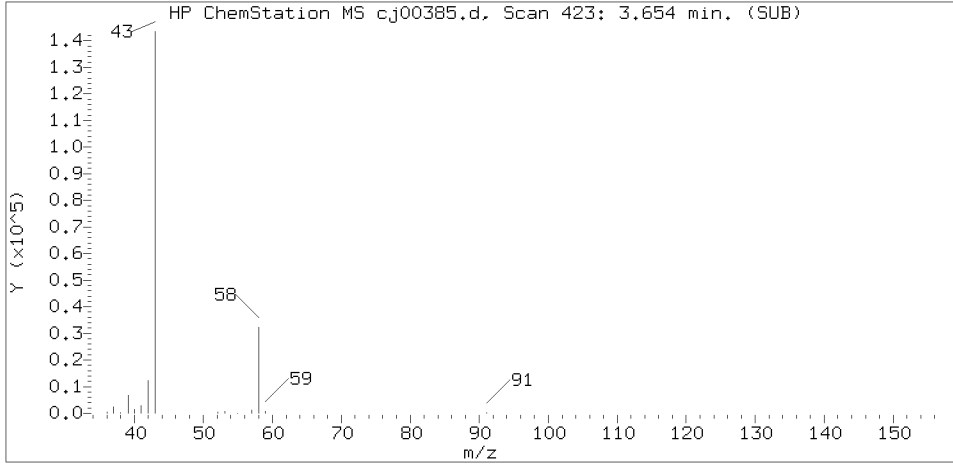
Lab Sample ID: 8087713

Compound Number : 18
 Compound Name : Freon 113
 Scan Number : 436
 Retention Time (minutes): 3.733
 Relative Retention Time : -0.00125
 Quant Ion : 103.00
 Area (flag) : 75269
 Concentration (ppb(v)) : 0.7603

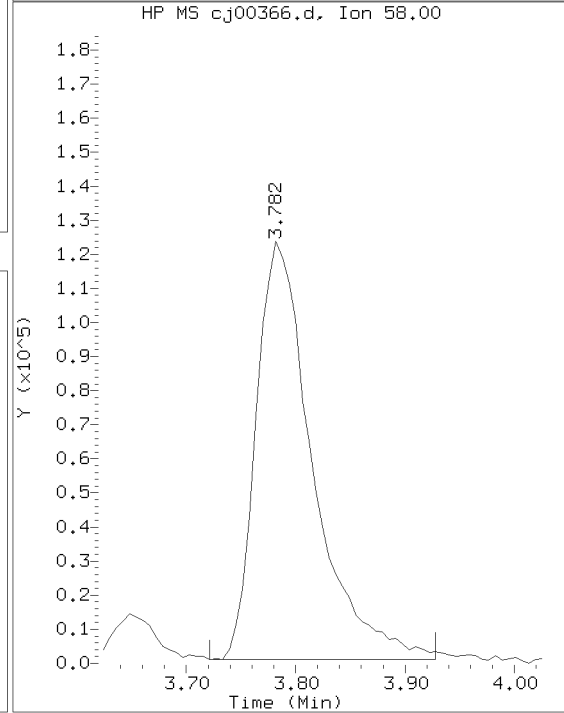
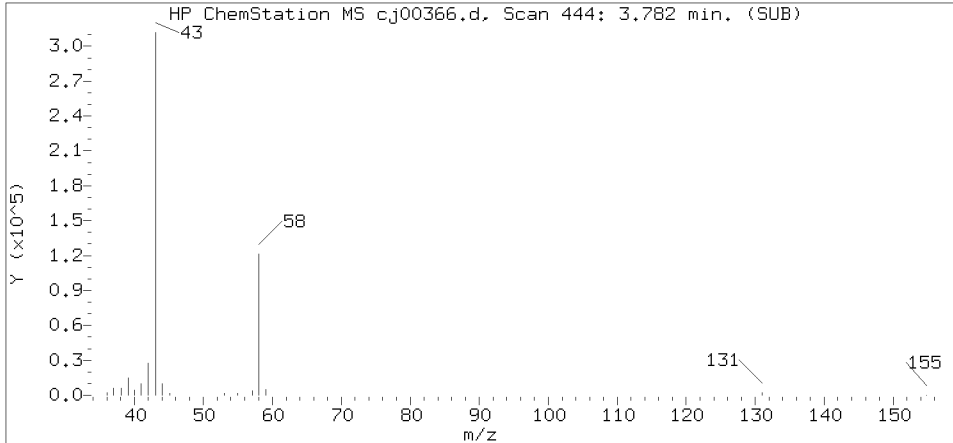
Digitally signed by Jacob E. Bailey on 10/30/2015 at 16:23.

Target 3.5 esignature user ID: jeb07445
 SSX23 Page 172 of 1243

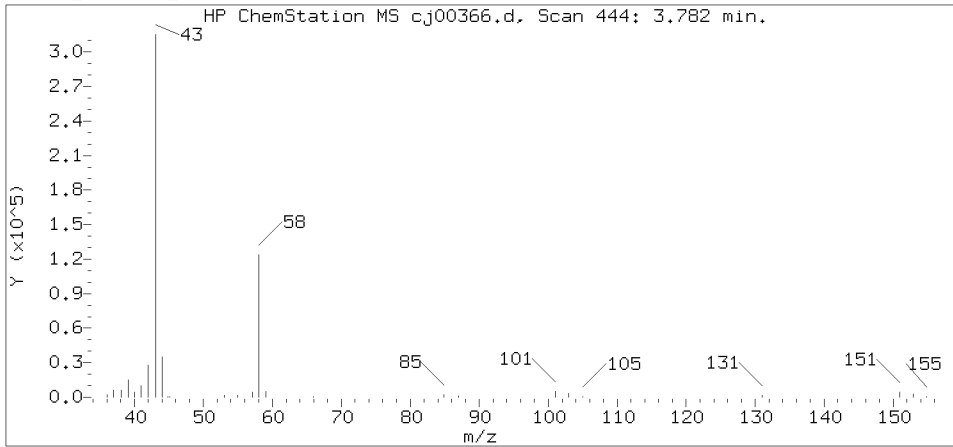
Reference Standard Spectrum for Acetone



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Sample Name: 1167-

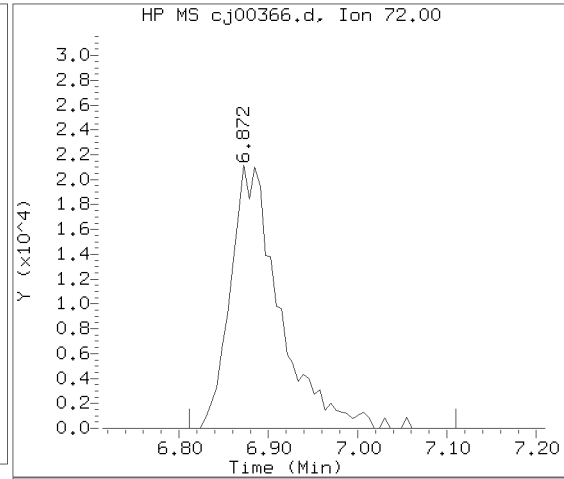
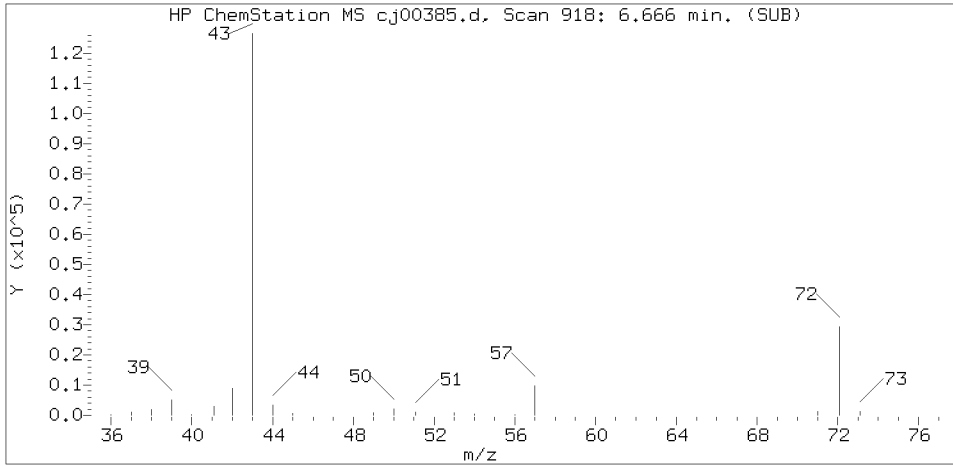
Lab Sample ID: 8087713

Compound Number : 19
 Compound Name : Acetone
 Scan Number : 444
 Retention Time (minutes): 3.782
 Relative Retention Time : -0.00040
 Quant Ion : 43.00
 Area (flag) : 1130836
 Concentration (ppb(v)) : 34.9344

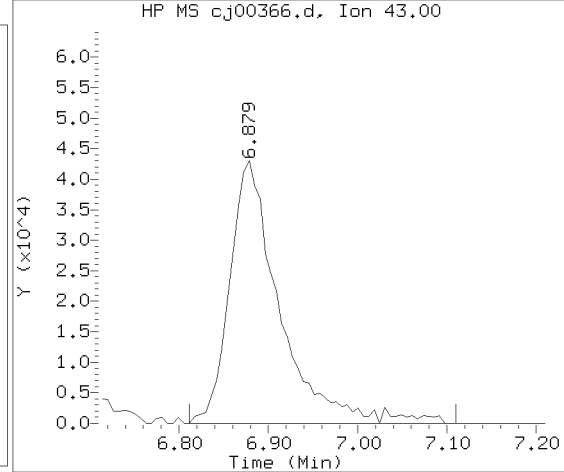
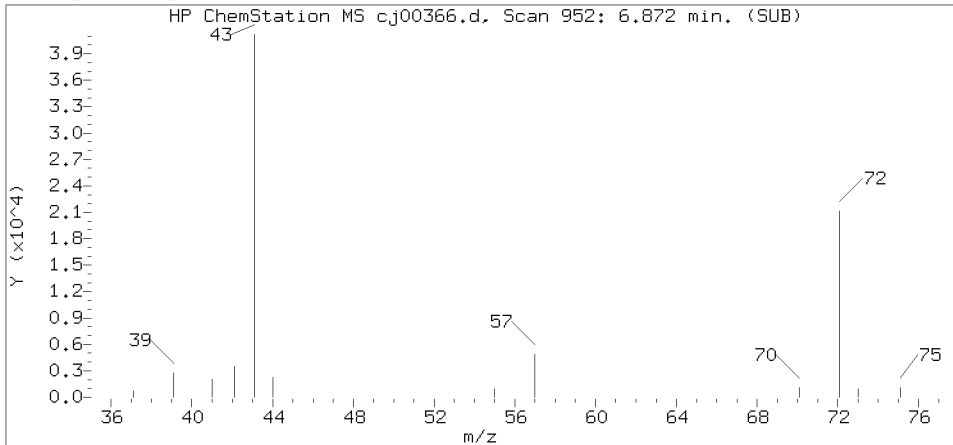
Digitally signed by Jacob E. Bailey on 10/30/2015 at 16:23.

Target 3.5 esignature user: jeb07445
 SSX23 Page 173 of 1243

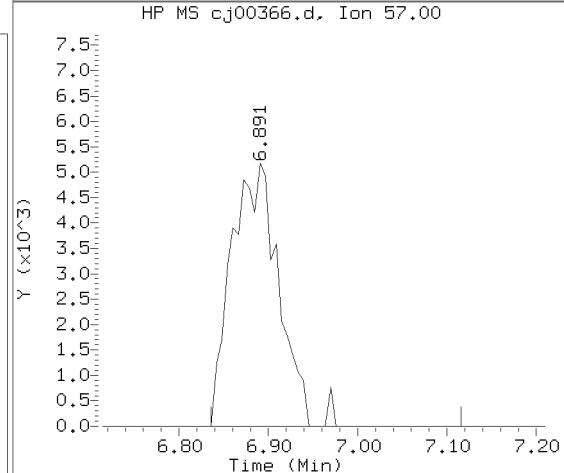
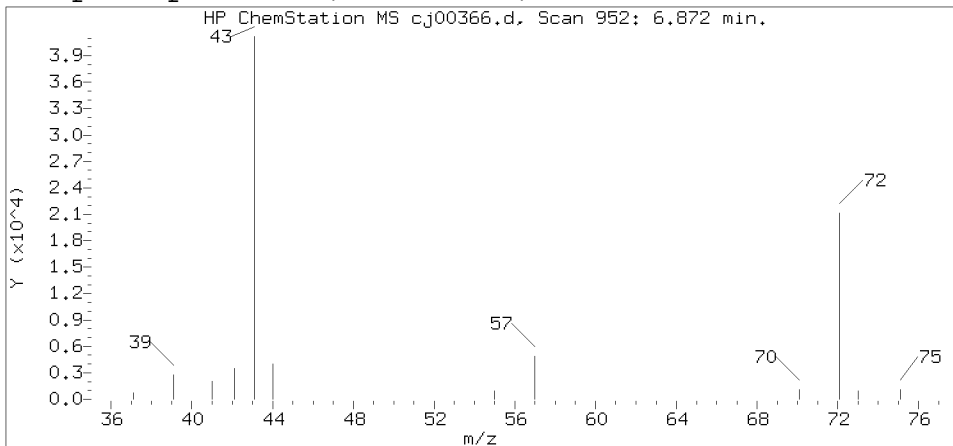
Reference Standard Spectrum for 2-Butanone



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Sample Name: 1167-

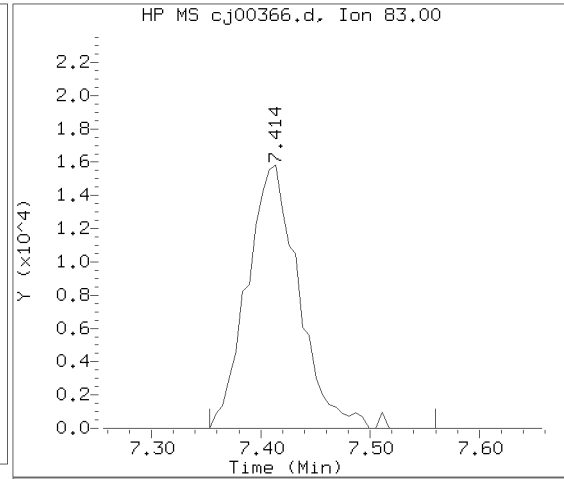
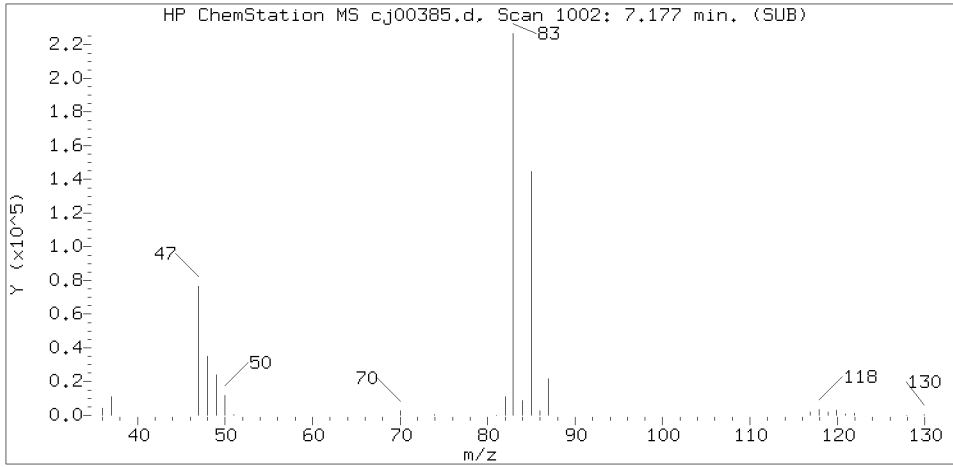
Lab Sample ID: 8087713

Compound Number : 37
 Compound Name : 2-Butanone
 Scan Number : 952
 Retention Time (minutes): 6.872
 Relative Retention Time : -0.00004
 Quant Ion : 72.00
 Area (flag) : 80853
 Concentration (ppb(v)) : 5.1422

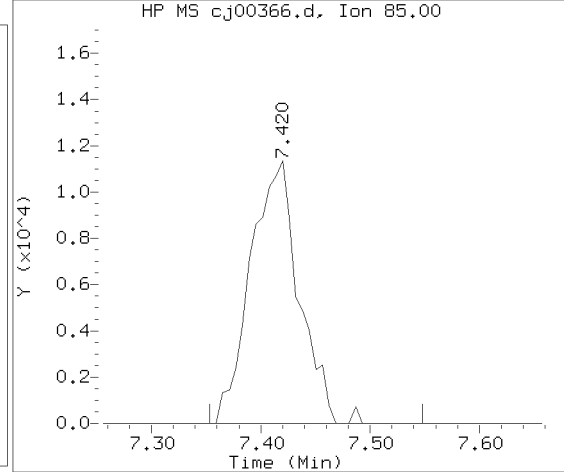
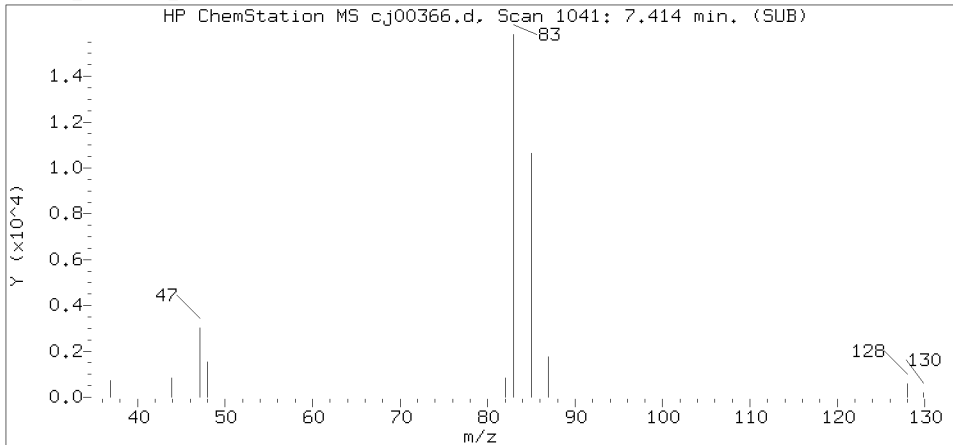
Digitally signed by Jacob E. Bailey on 10/30/2015 at 16:23.

Target 3.5 esignature user ID: jeb07445
 SSX23 Page 174 of 1243

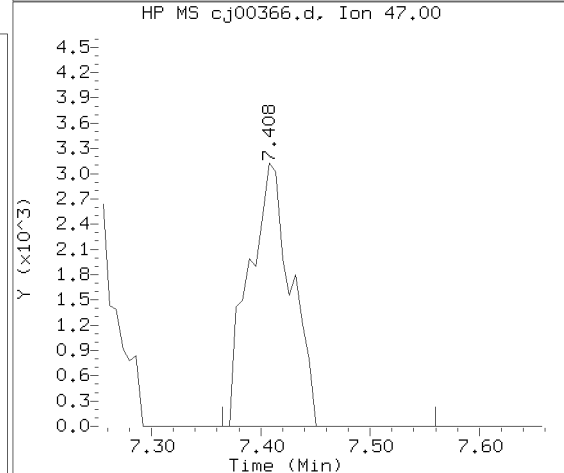
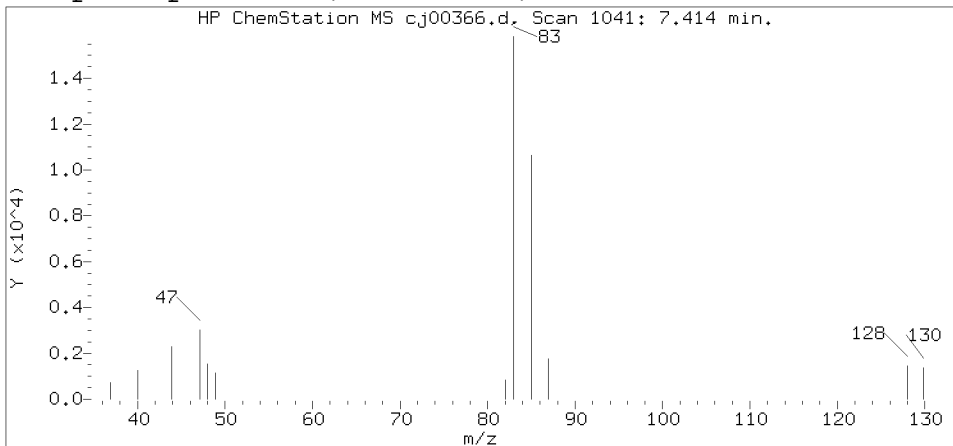
Reference Standard Spectrum for Chloroform



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

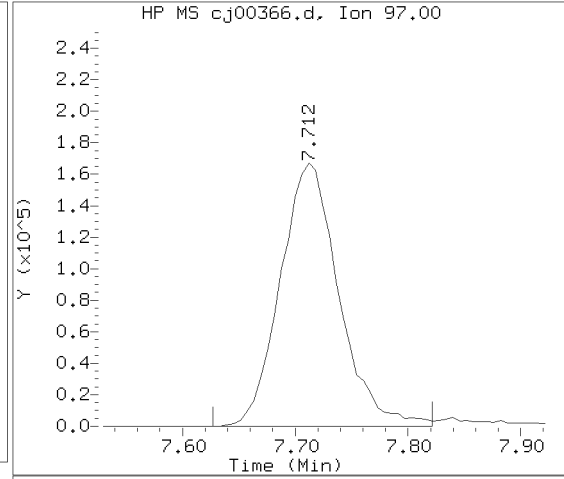
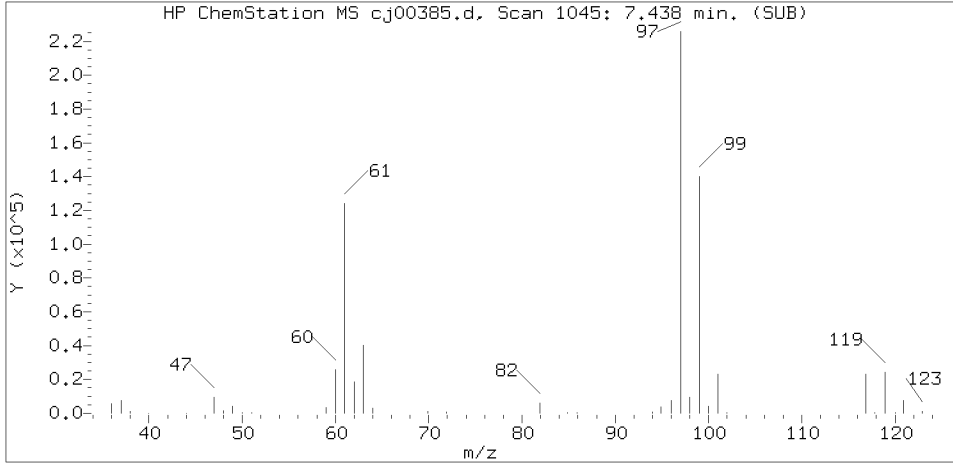
Sample Name: 1167-

Lab Sample ID: 8087713

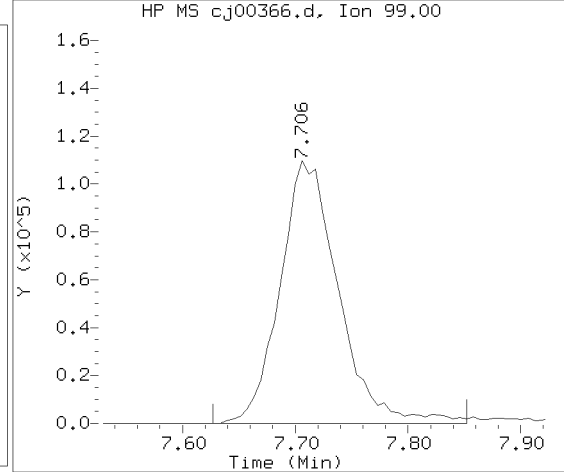
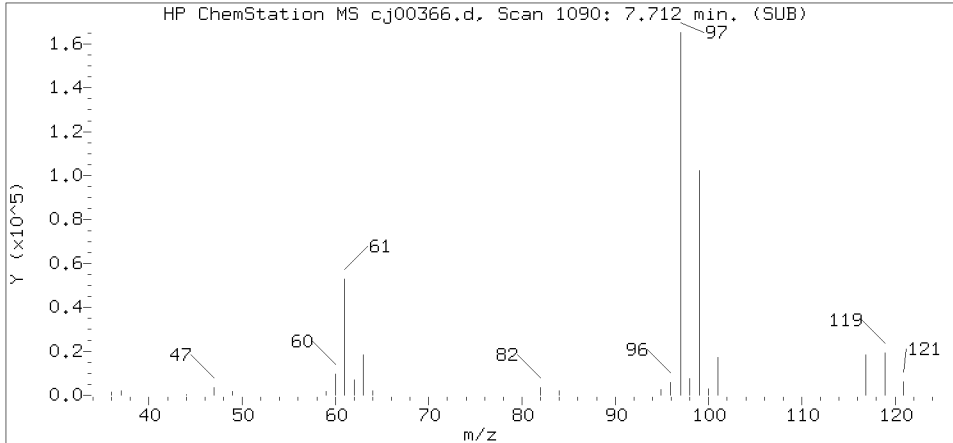
Compound Number : 42
 Compound Name : Chloroform
 Scan Number : 1041
 Retention Time (minutes): 7.414
 Relative Retention Time : -0.00082
 Quant Ion : 83.00
 Area (flag) : 52076
 Concentration (ppb(v)) : 0.3491

Digitally signed by Jacob E. Bailey on 10/30/2015 at 16:23.
 Target 3.5 esignature user ID: jeb07445

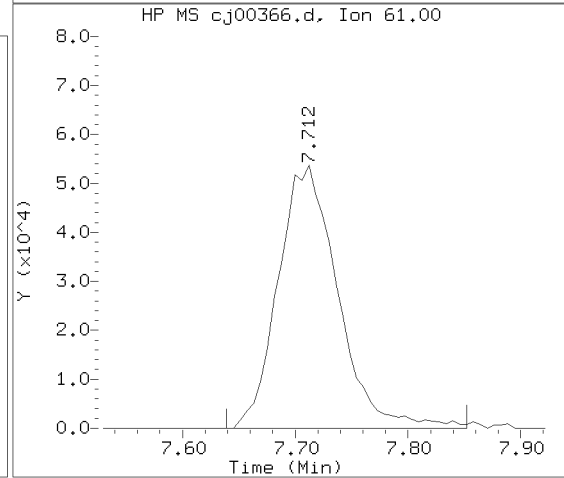
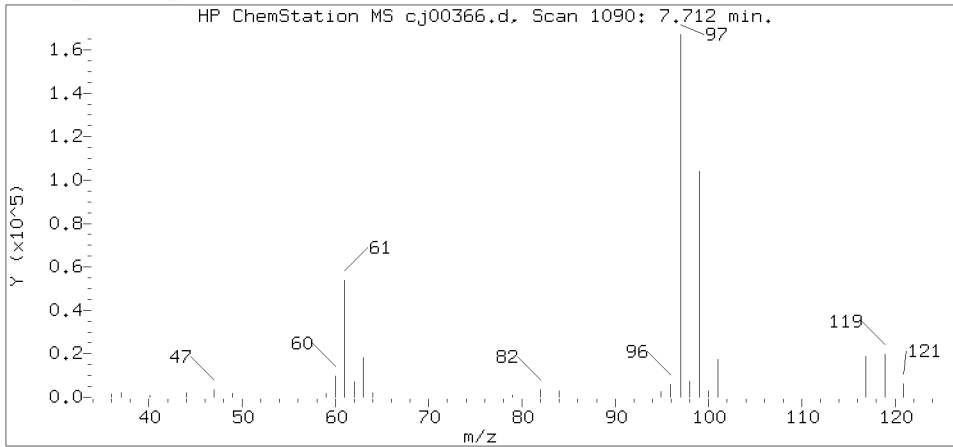
Reference Standard Spectrum for 1,1,1-Trichloroethane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

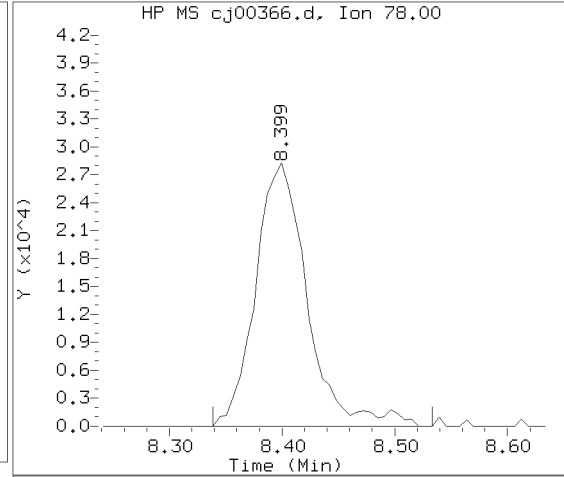
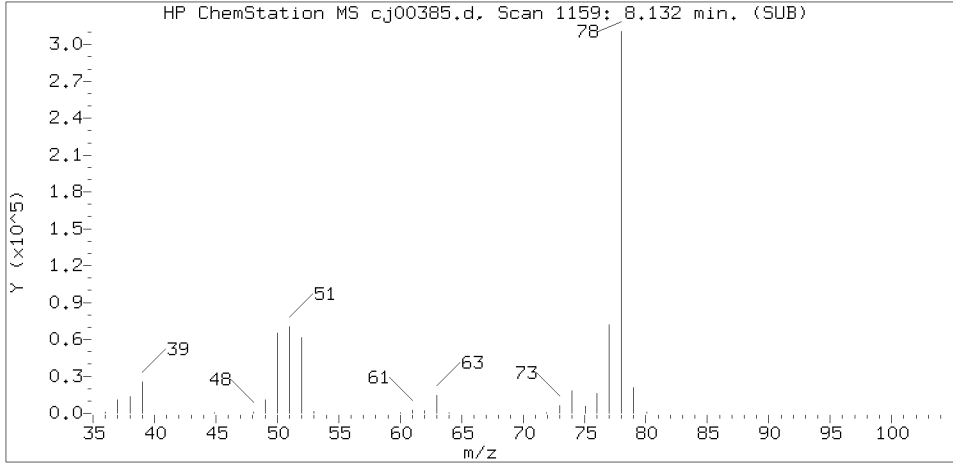
Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Sample Name: 1167-

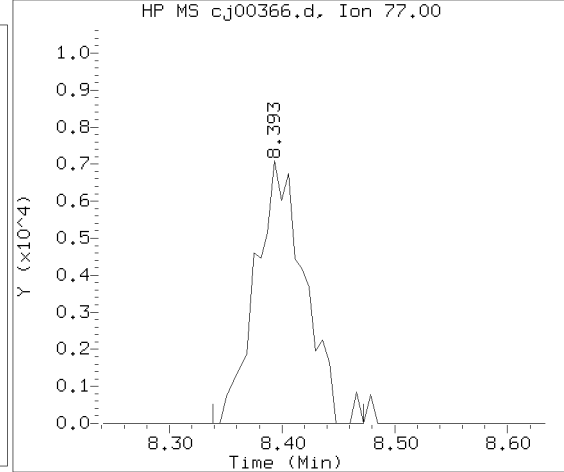
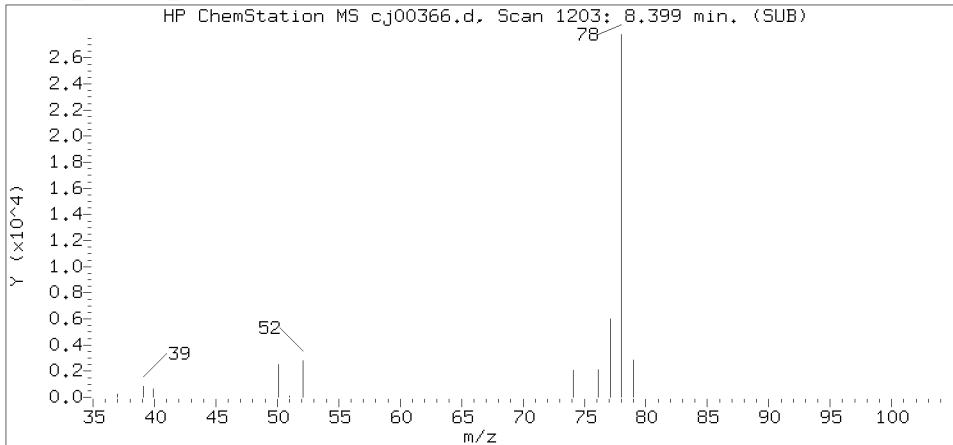
Lab Sample ID: 8087713

Compound Number : 43
 Compound Name : 1,1,1-Trichloroethane
 Scan Number : 1090
 Retention Time (minutes): 7.712
 Relative Retention Time : -0.00079
 Quant Ion : 97.00
 Area (flag) : 602786
 Concentration (ppb(v)) : 3.5564

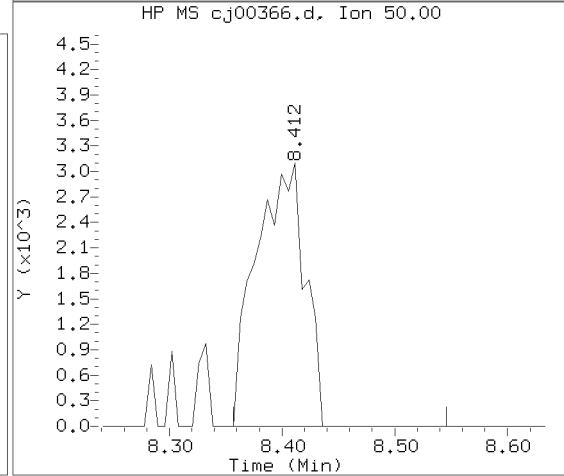
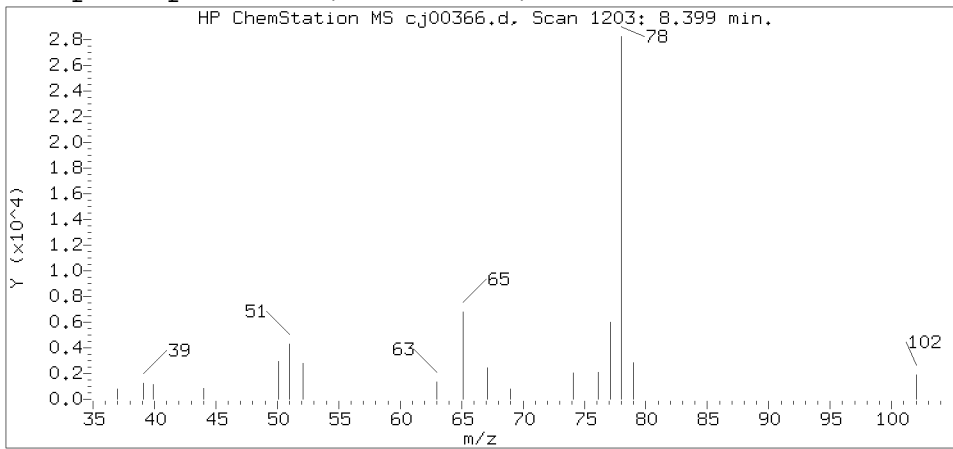
Reference Standard Spectrum for Benzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

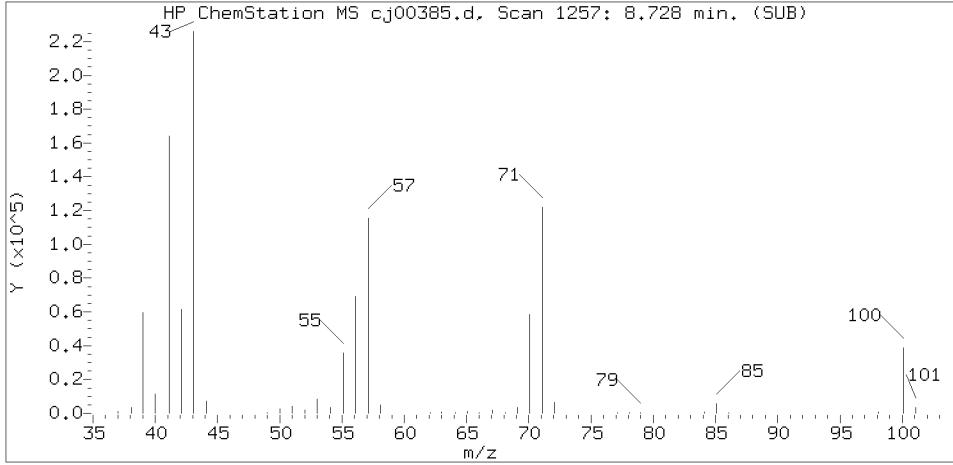
Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Sample Name: 1167-

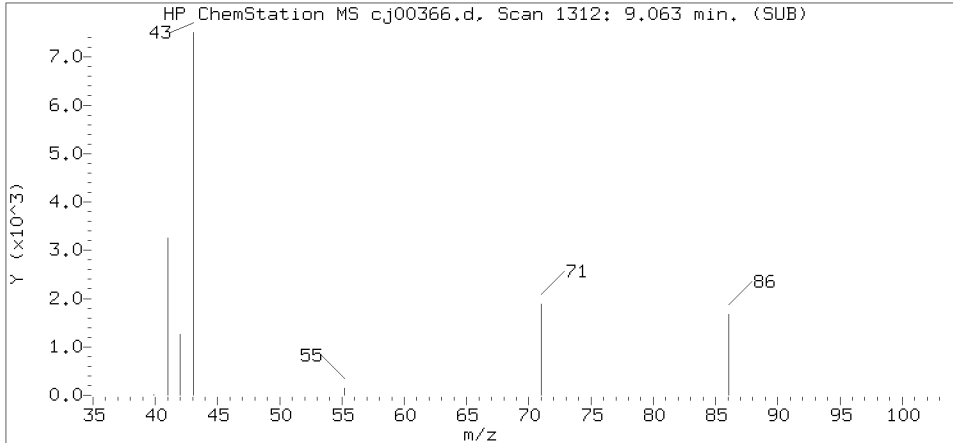
Lab Sample ID: 8087713

Compound Number : 46
 Compound Name : Benzene
 Scan Number : 1203
 Retention Time (minutes): 8.399
 Relative Retention Time : 0.00054
 Quant Ion : 78.00
 Area (flag) : 90058
 Concentration (ppb(v)) : 0.5902

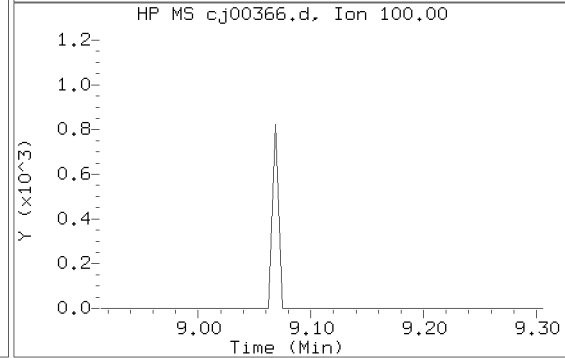
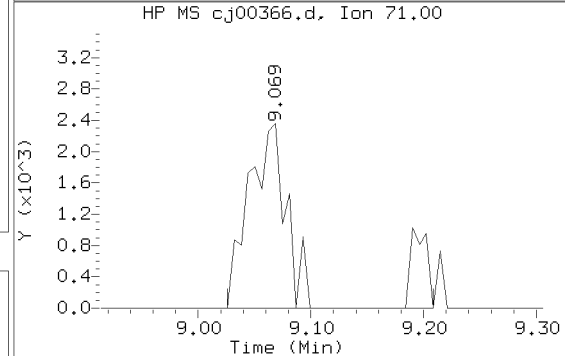
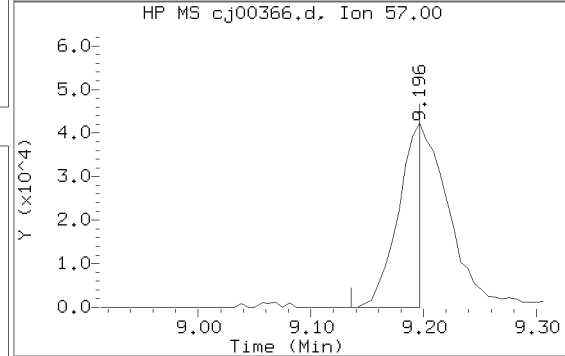
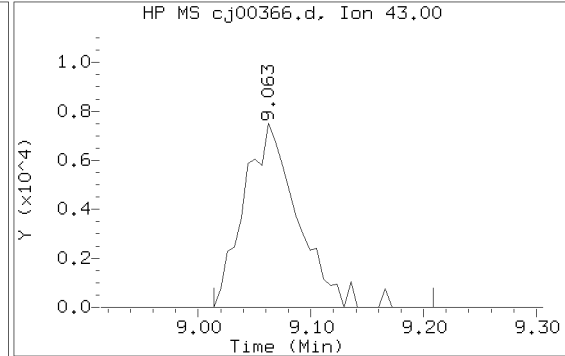
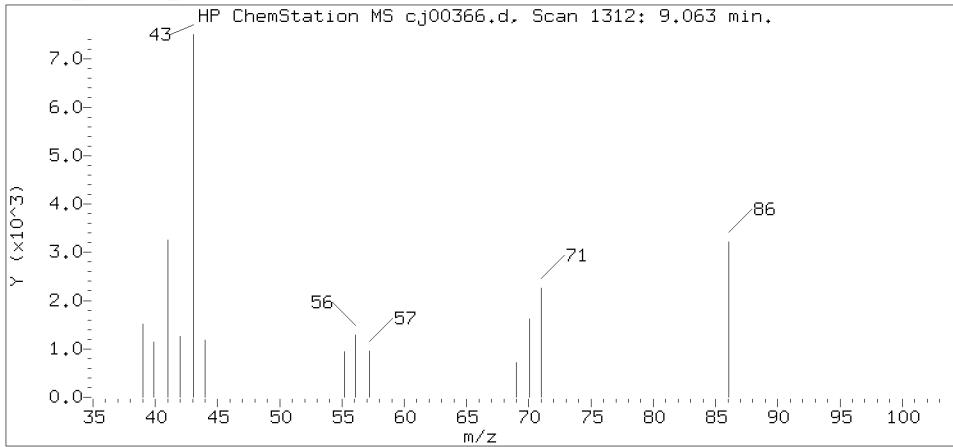
Reference Standard Spectrum for Heptane



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Sample Name: 1167-

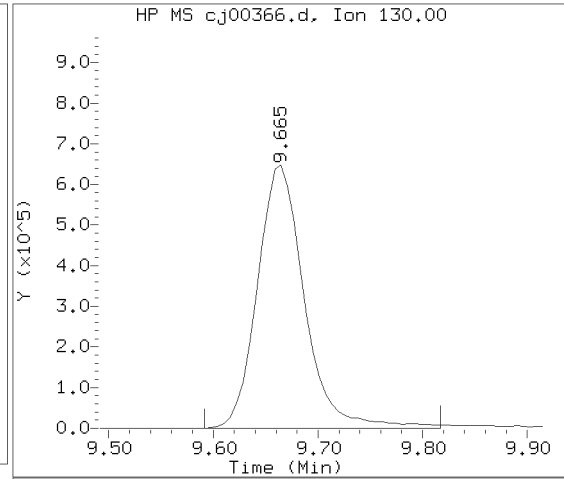
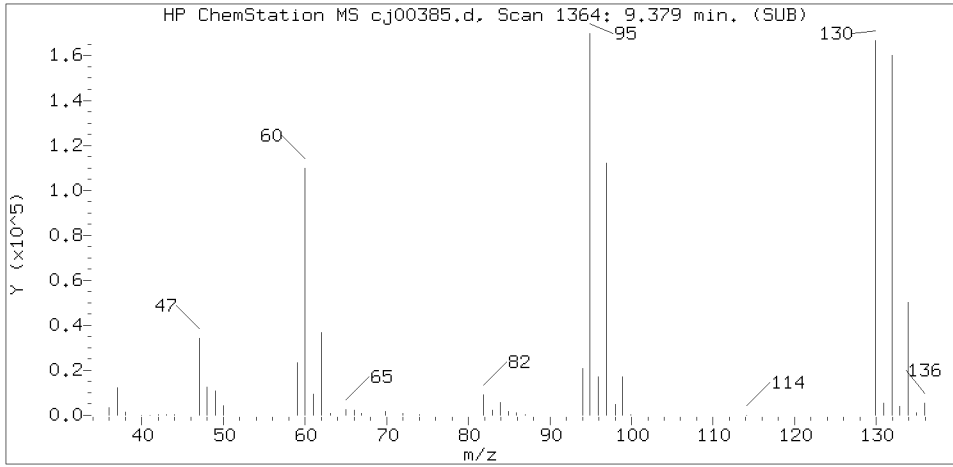
Lab Sample ID: 8087713

Compound Number : 50
 Compound Name : Heptane
 Scan Number : 1312
 Retention Time (minutes): 9.063
 Relative Retention Time : -0.00068
 Quant Ion : 43.00
 Area (flag) : 24799
 Concentration (ppb(v)) : 0.6269

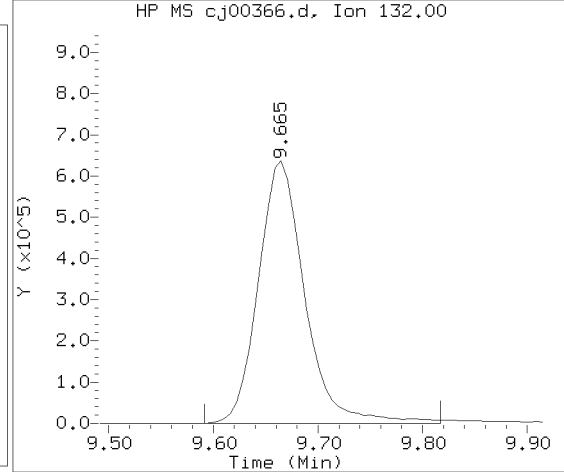
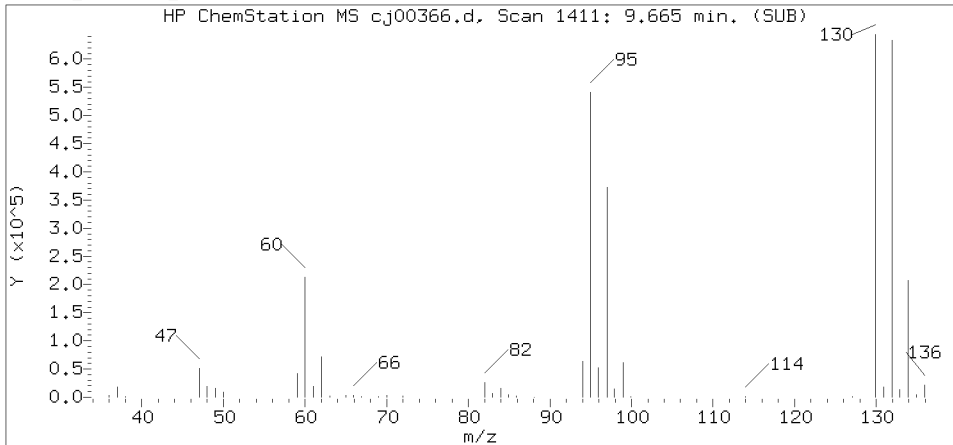
Digitally signed by Jacob E. Bailey on 10/30/2015 at 16:23.

Target 3.5 esignature user ID: jeb07445
 SSX23 Page 178 of 1243

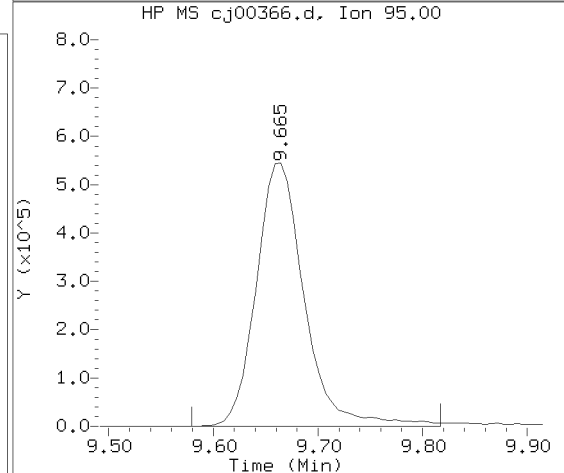
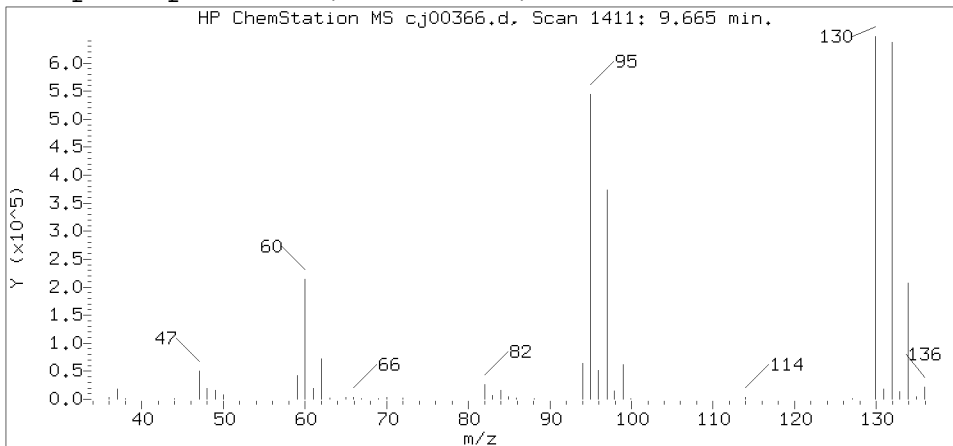
Reference Standard Spectrum for Trichloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

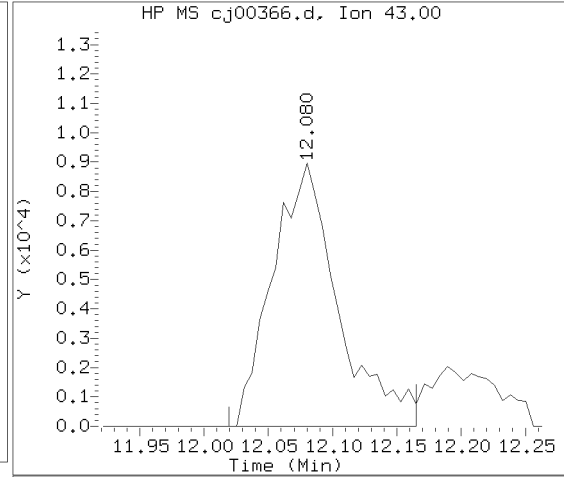
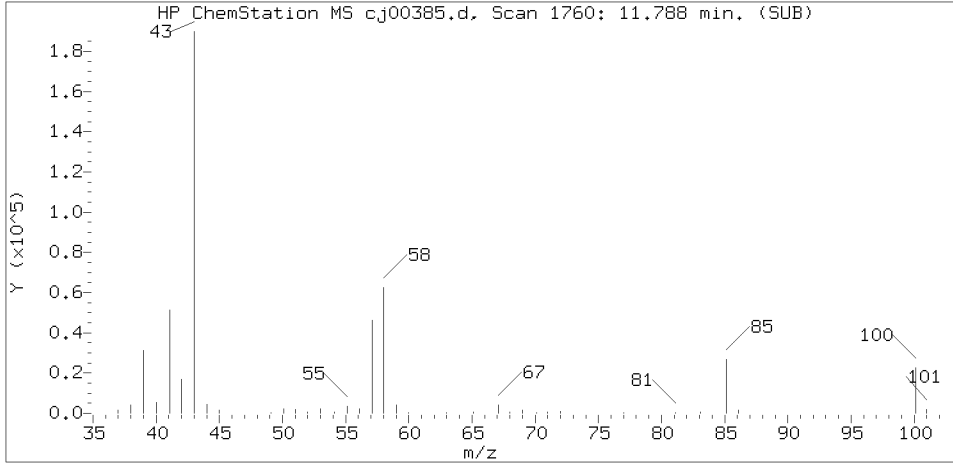
Sample Name: 1167- Lab Sample ID: 8087713

Compound Number : 52
 Compound Name : Trichloroethene
 Scan Number : 1411
 Retention Time (minutes): 9.665
 Relative Retention Time : 0.00006
 Quant Ion : 130.00
 Area (flag) : 2032170
 Concentration (ppb(v)) : 19.4545

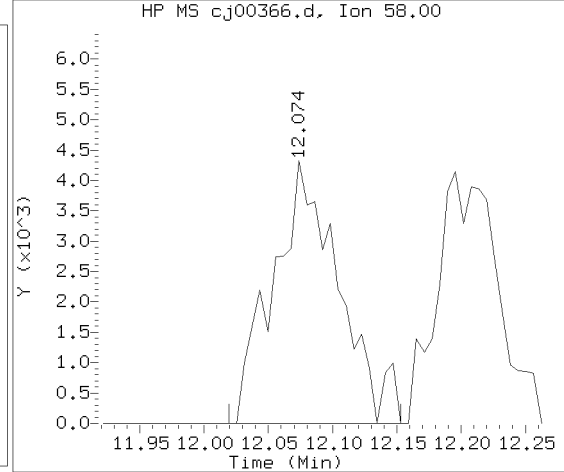
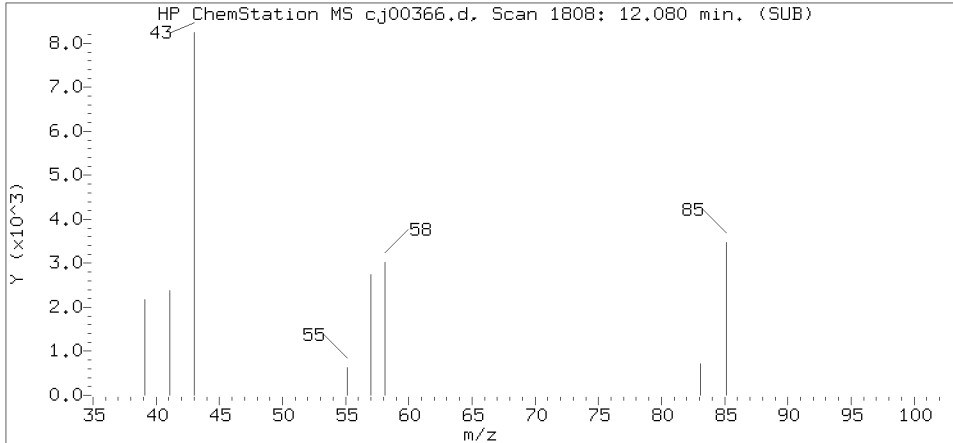
Digitally signed by Jacob E. Bailey on 10/30/2015 at 16:23.

Target 3.5 esignature user ID: jeb07445
 SSX23 Page 179 of 1243

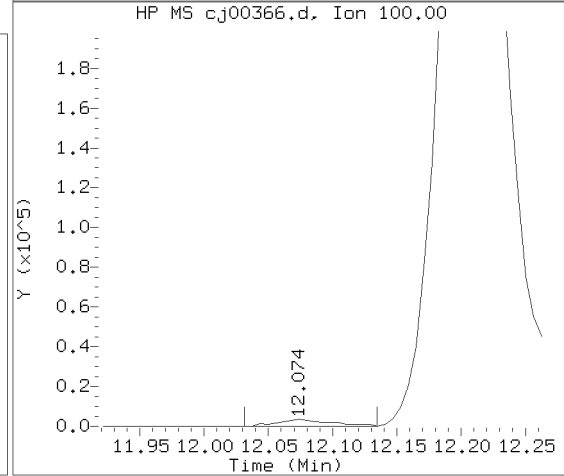
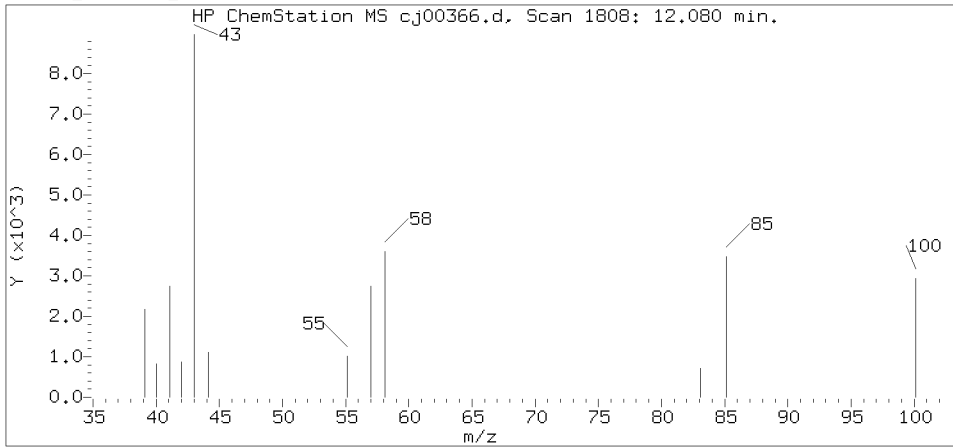
Reference Standard Spectrum for 4-Methyl-2-Pentanone



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Sample Name: 1167-

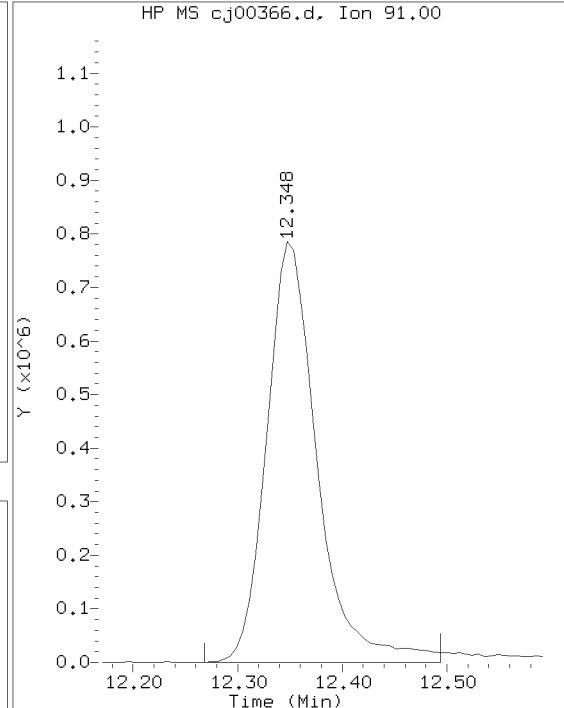
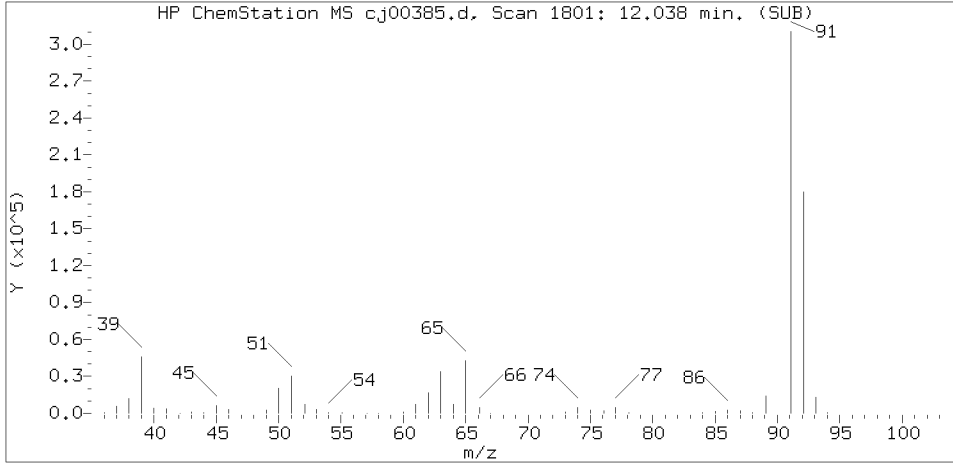
Lab Sample ID: 8087713

Compound Number : 60
 Compound Name : 4-Methyl-2-Pentanone
 Scan Number : 1808
 Retention Time (minutes): 12.080
 Relative Retention Time : -0.00025
 Quant Ion : 43.00
 Area (flag) : 31752
 Concentration (ppb(v)) : 0.7993

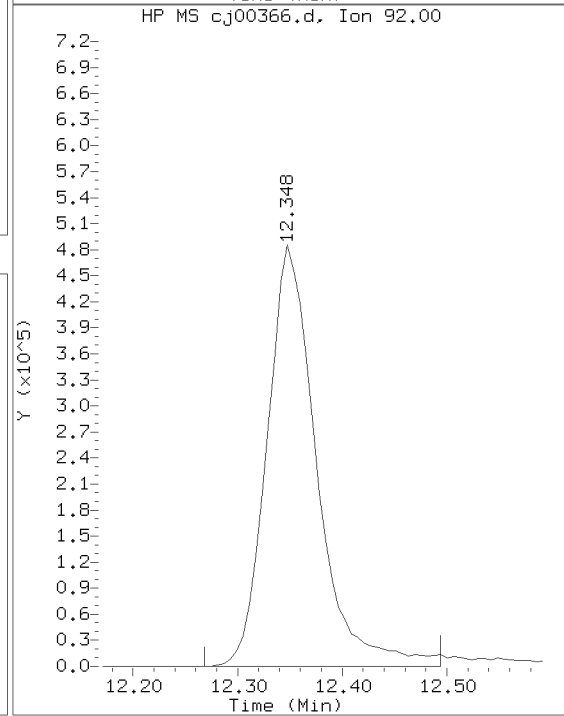
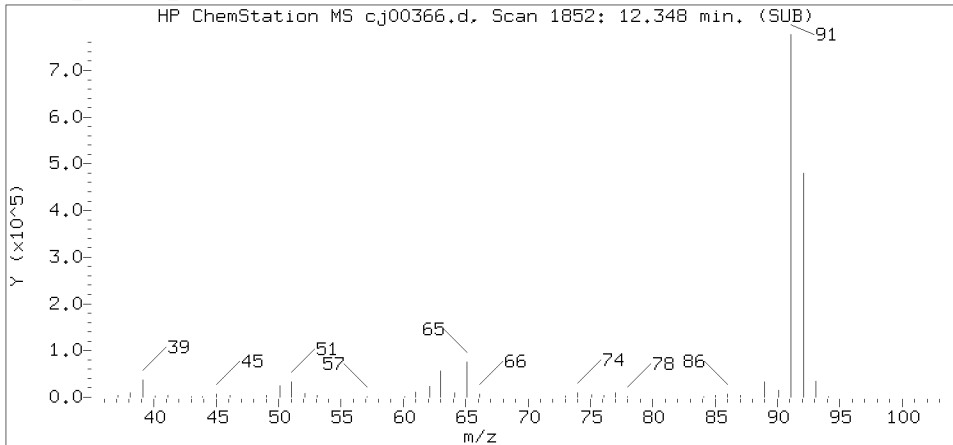
Digitally signed by Jacob E. Bailey on 10/30/2015 at 16:23.

Target 3.5 esignature user ID: jeb07445
 SSX23 Page 180 of 1243

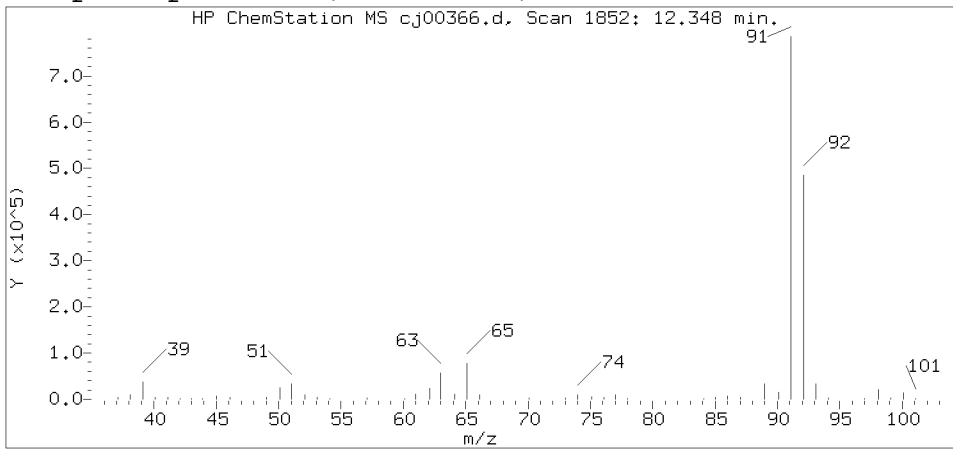
Reference Standard Spectrum for Toluene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Sample Name: 1167-

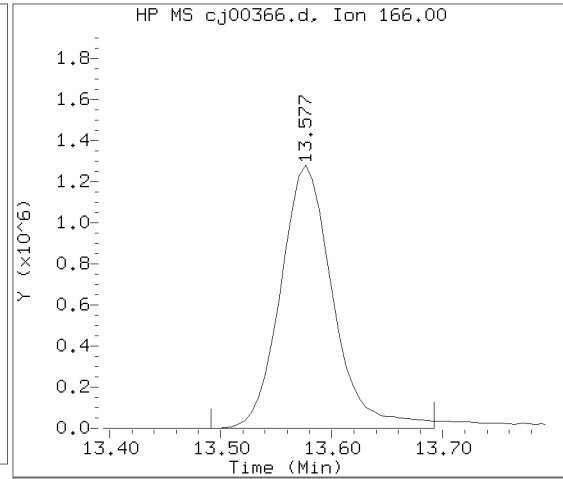
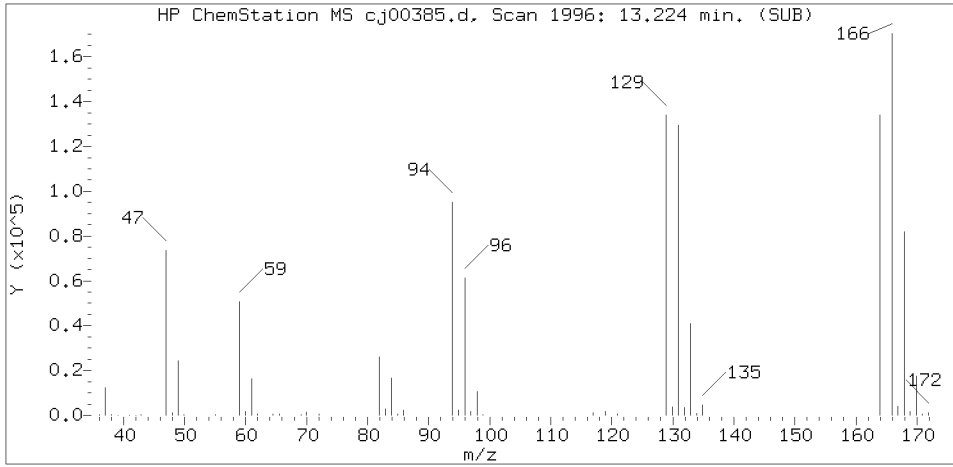
Lab Sample ID: 8087713

Compound Number : 61
 Compound Name : Toluene
 Scan Number : 1852
 Retention Time (minutes): 12.348
 Relative Retention Time : -0.00008
 Quant Ion : 91.00
 Area (flag) : 2644201
 Concentration (ppb(v)) : 16.2789

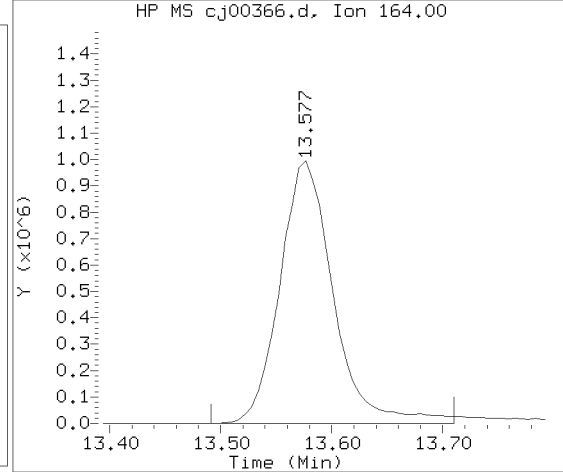
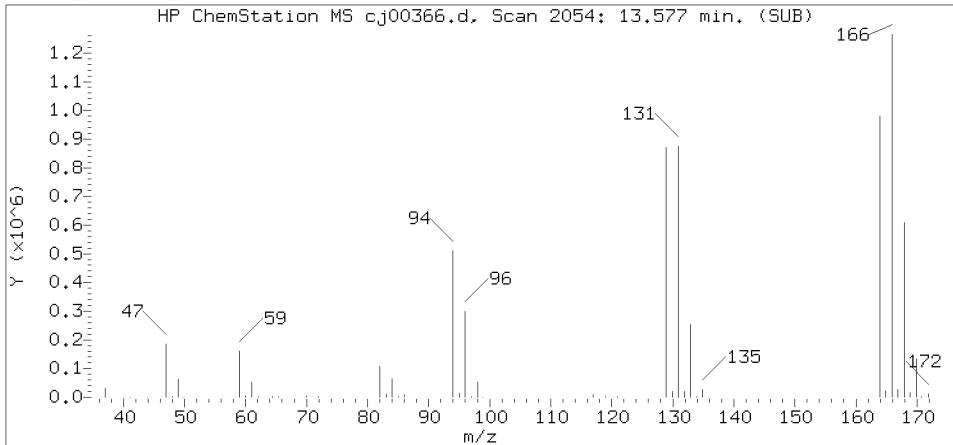
Digitally signed by Jacob E. Bailey on 10/30/2015 at 16:23.

Target 3.5 esignature user: jeb07445
 SSX23 Page 181 of 1243

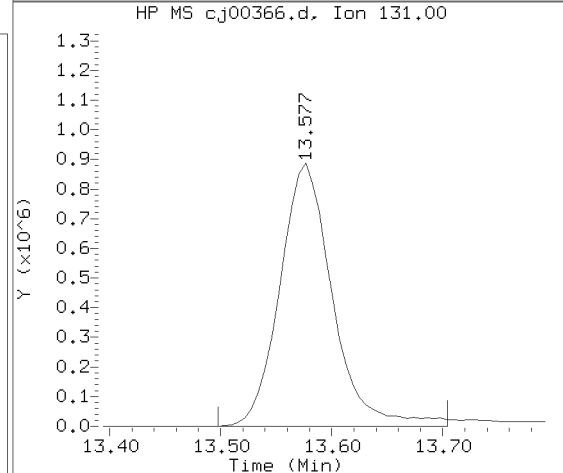
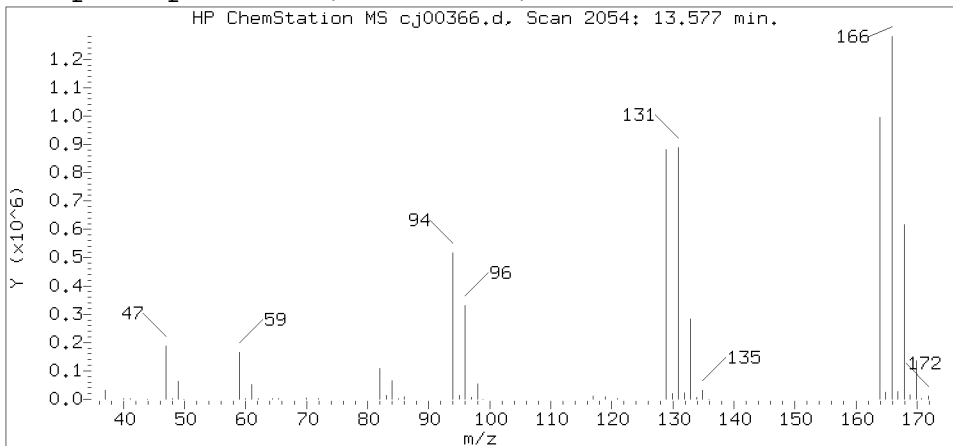
Reference Standard Spectrum for Tetrachloroethene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Sample Name: 1167-

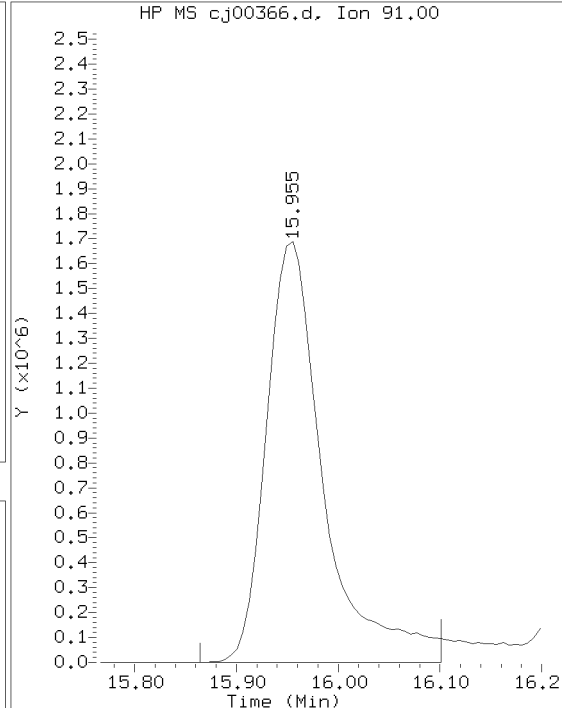
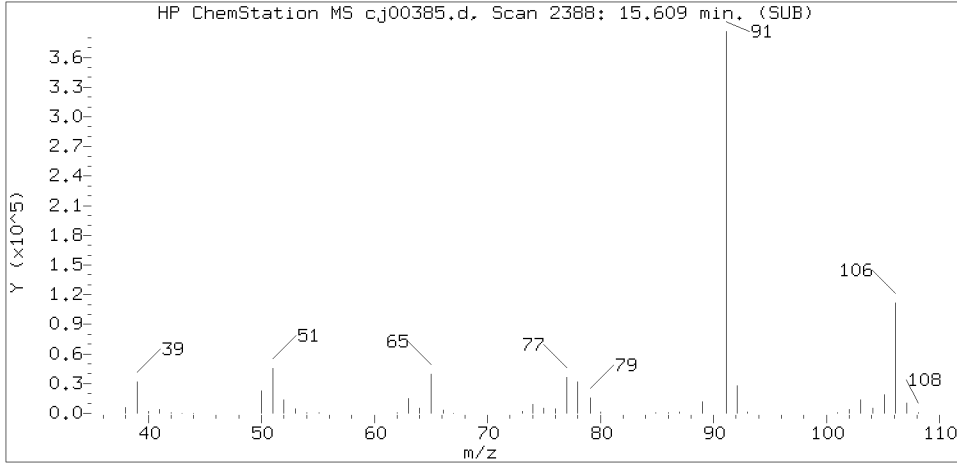
Lab Sample ID: 8087713

Compound Number : 67
 Compound Name : Tetrachloroethene
 Scan Number : 2054
 Retention Time (minutes): 13.577
 Relative Retention Time : -0.00005
 Quant Ion : 166.00
 Area (flag) : 4194605
 Concentration (ppb(v)) : 30.3315

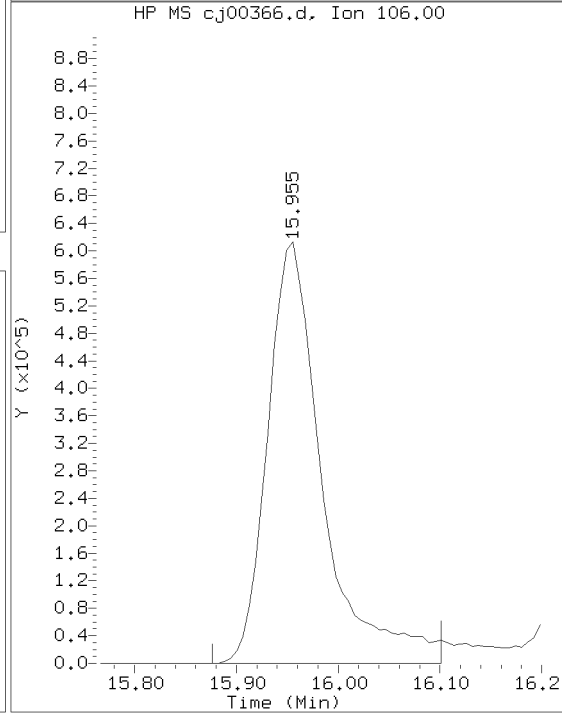
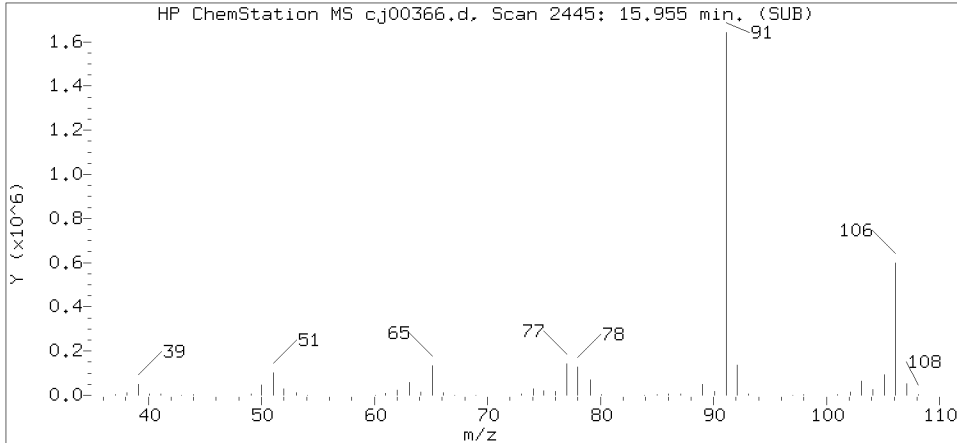
Digitally signed by Jacob E. Bailey on 10/30/2015 at 16:23.

Target 3.5 esignature user ID: jeb07445
 SSX23 Page 182 of 1243

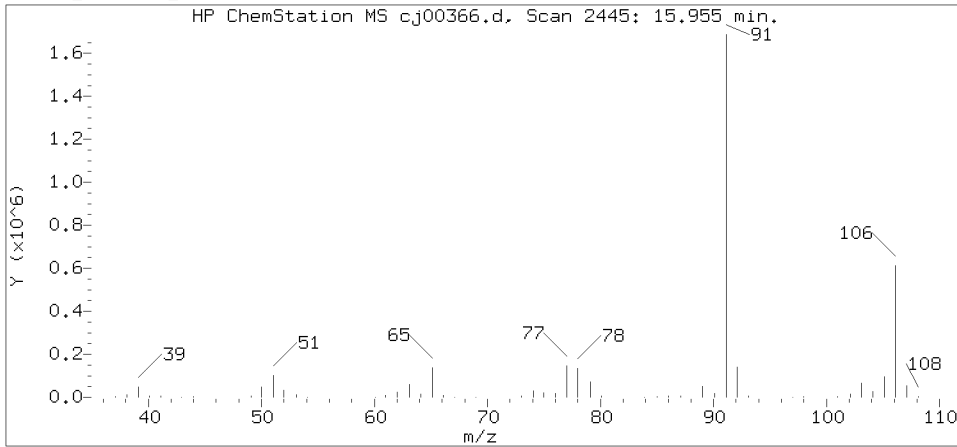
Reference Standard Spectrum for Ethylbenzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

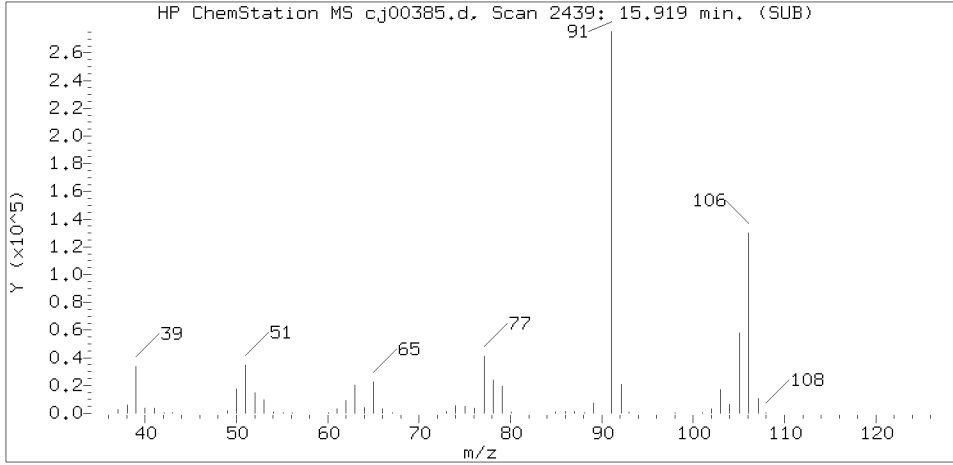
Sublist used: 292

Sample Name: 1167-

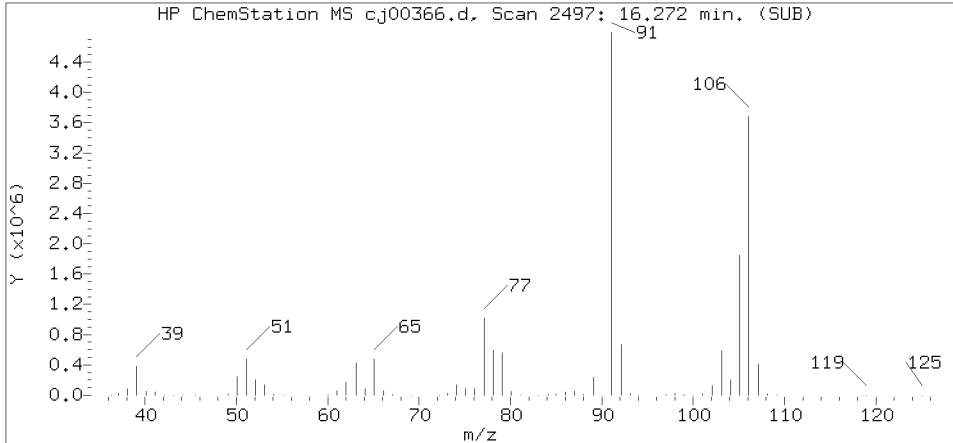
Lab Sample ID: 8087713

Compound Number : 74
 Compound Name : Ethylbenzene
 Scan Number : 2445
 Retention Time (minutes): 15.955
 Relative Retention Time : 0.00001
 Quant Ion : 91.00
 Area (flag) : 6600872
 Concentration (ppb(v)) : 36.7823

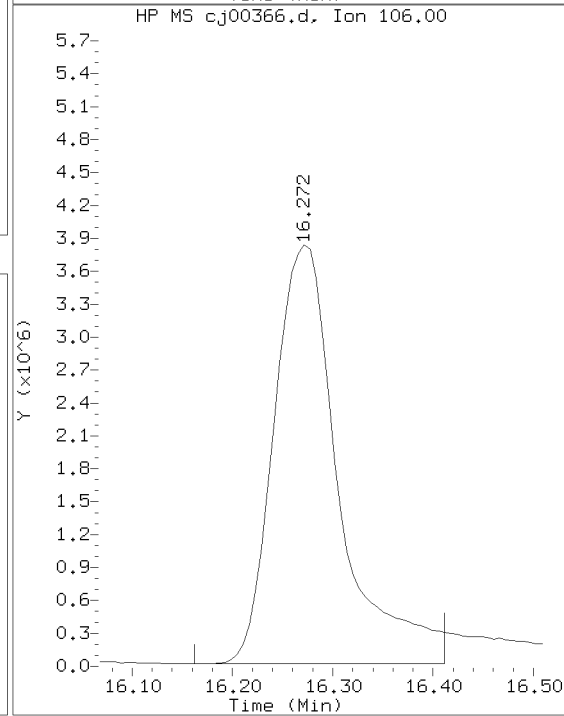
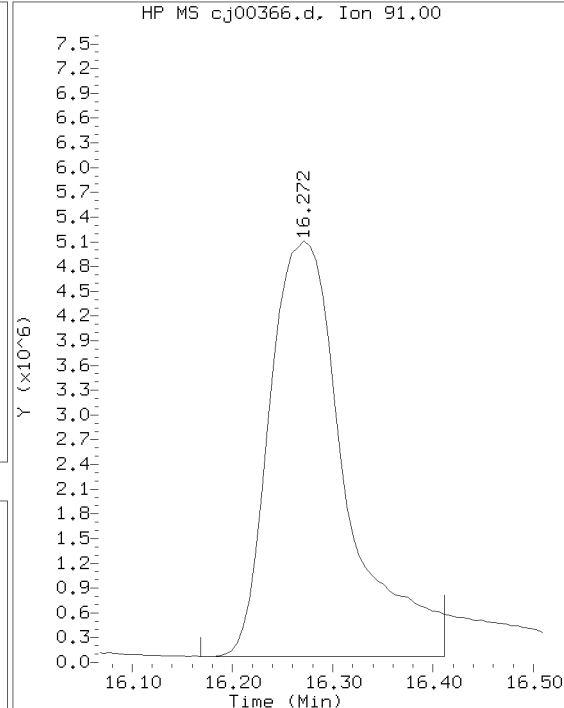
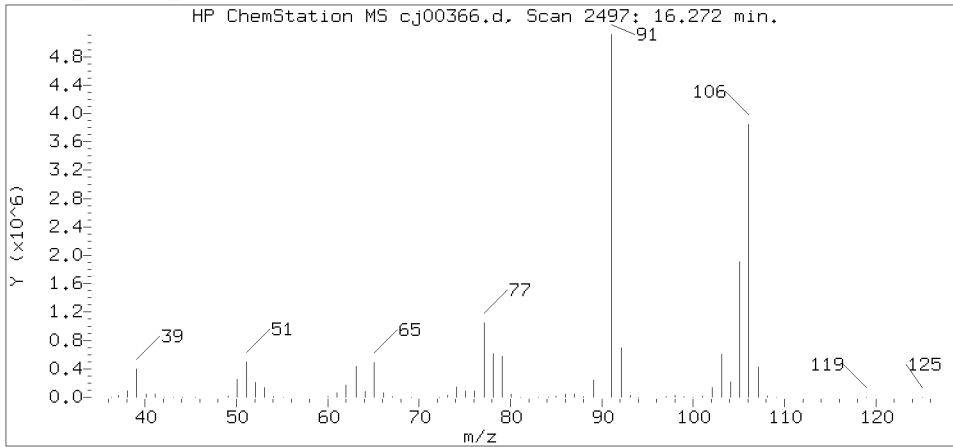
Reference Standard Spectrum for m/p-Xylene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Sample Name: 1167-

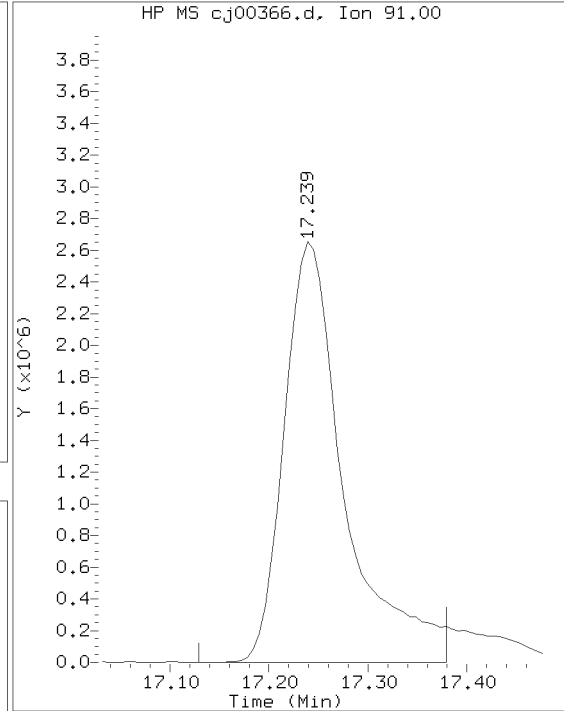
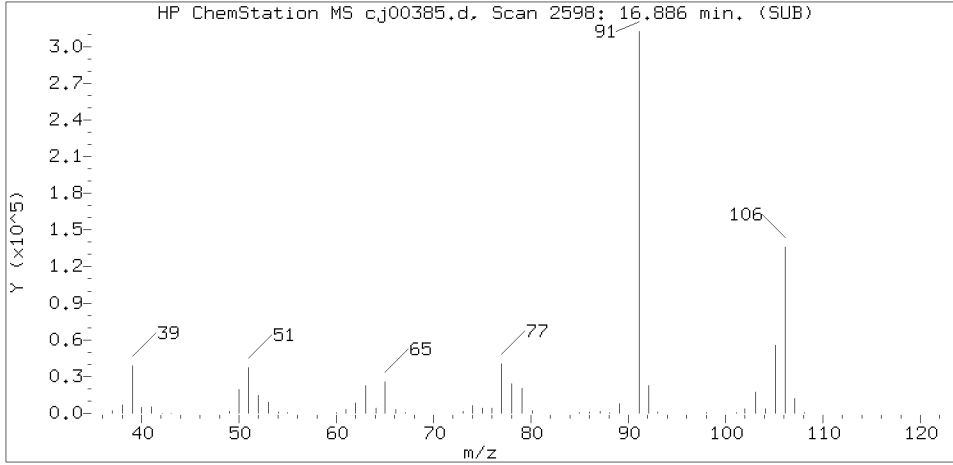
Lab Sample ID: 8087713

Compound Number : 75
 Compound Name : m/p-Xylene
 Scan Number : 2497
 Retention Time (minutes): 16.272
 Relative Retention Time : -0.00037
 Quant Ion : 91.00
 Area (flag) : 26475873
 Concentration (ppb(v)) : 178.3972

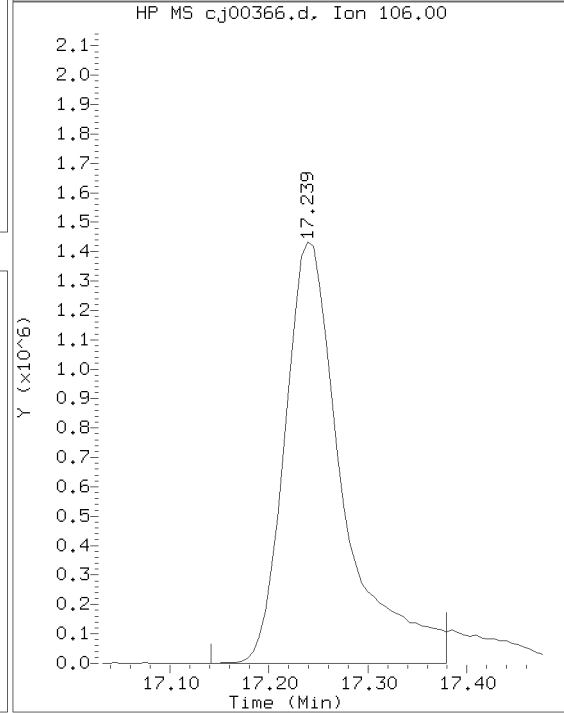
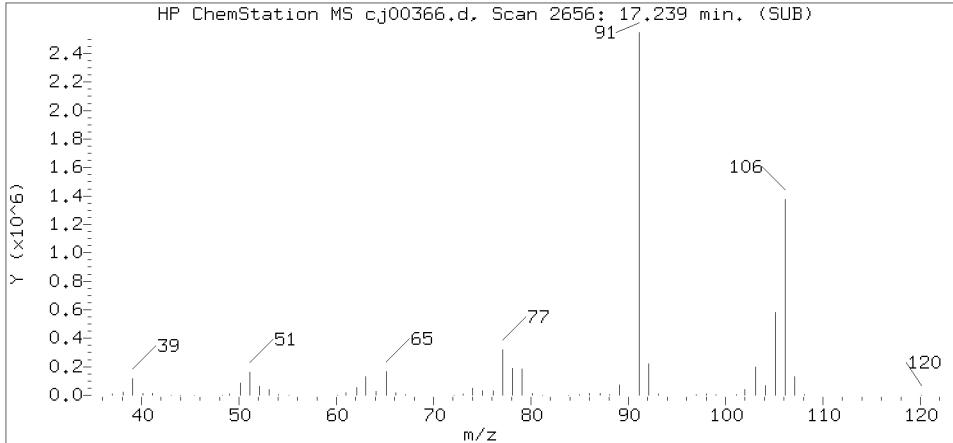
Digitally signed by Jacob E. Bailey on 10/30/2015 at 16:23.

Target 3.5 esignature user ID: jeb07445
 SSX23 Page 184 of 1243

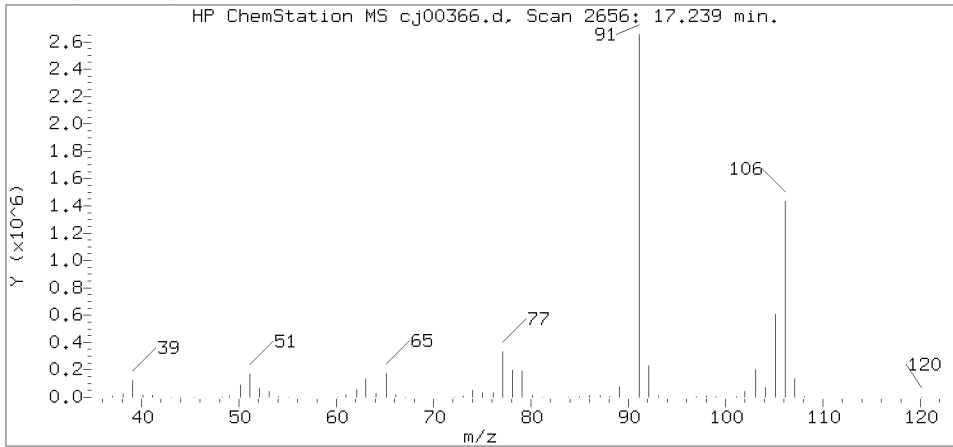
Reference Standard Spectrum for o-Xylene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

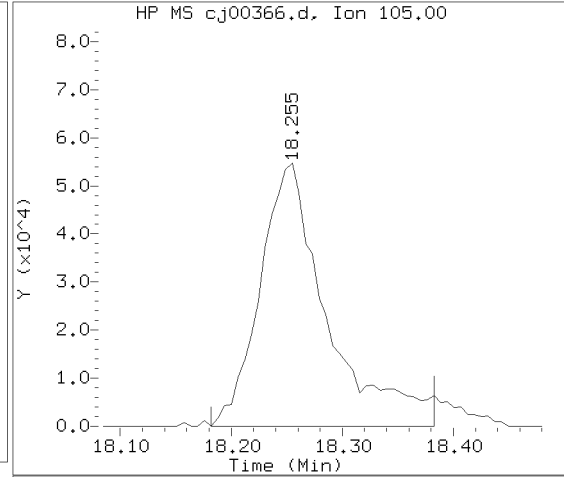
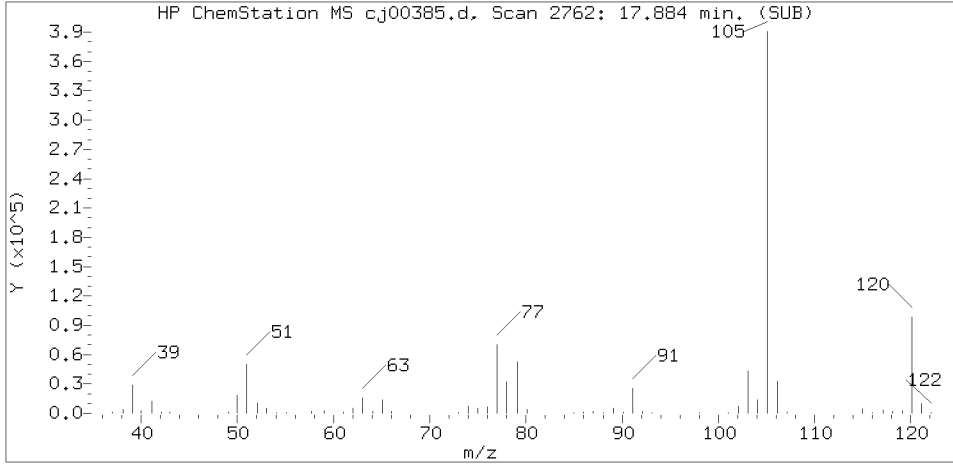
Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Sample Name: 1167-

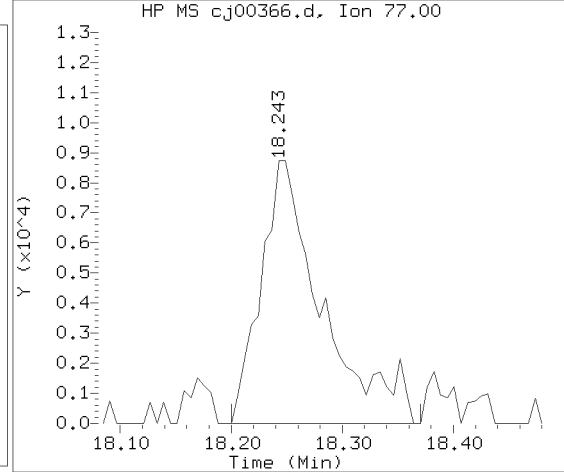
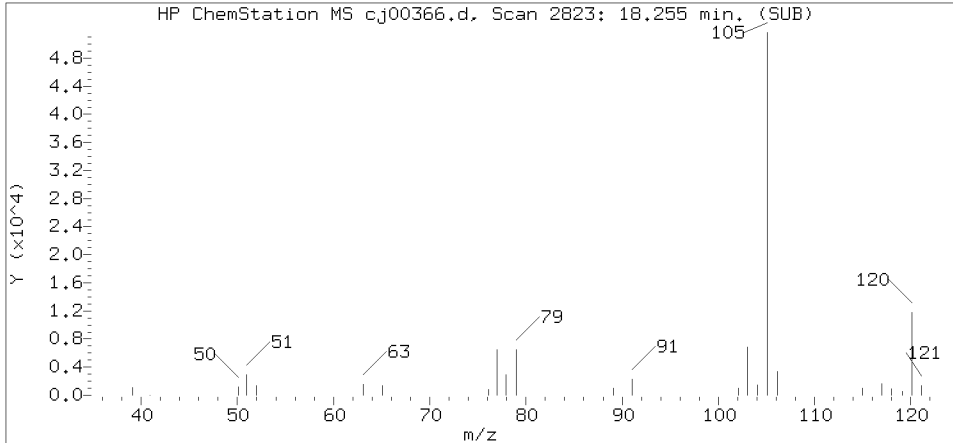
Lab Sample ID: 8087713

Compound Number : 76
 Compound Name : o-Xylene
 Scan Number : 2656
 Retention Time (minutes): 17.239
 Relative Retention Time : 0.00004
 Quant Ion : 91.00
 Area (flag) : 11202965
 Concentration (ppb(v)) : 71.7201

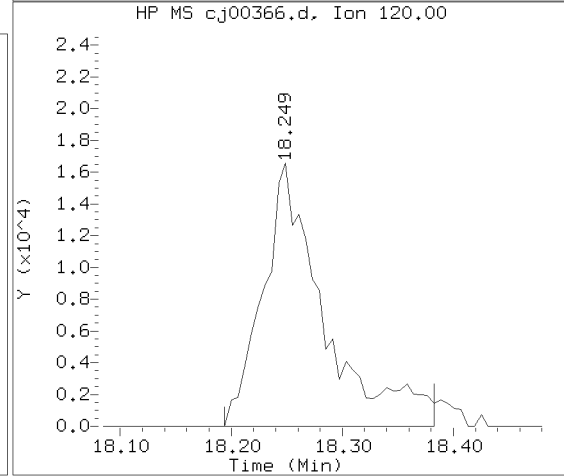
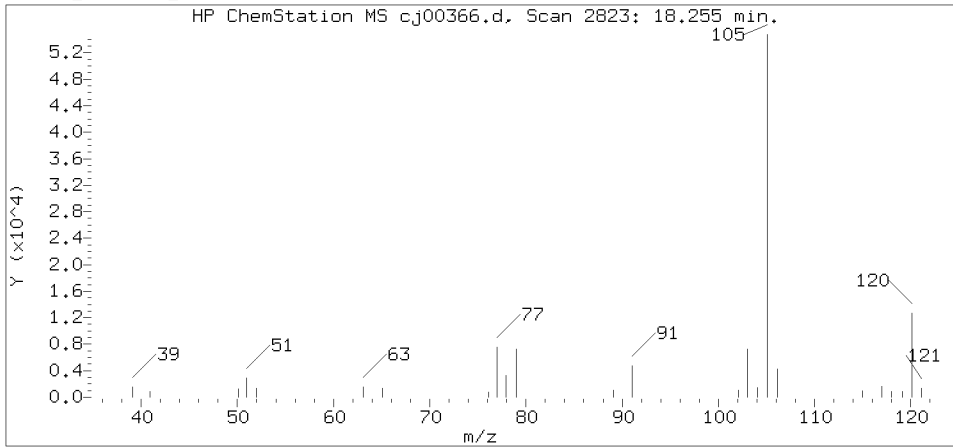
Reference Standard Spectrum for Cumene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Sublist used: 292

Sample Name: 1167-

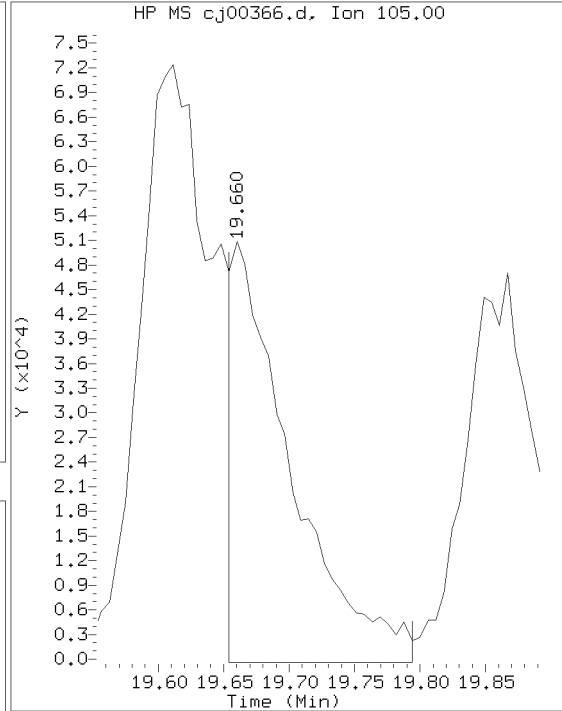
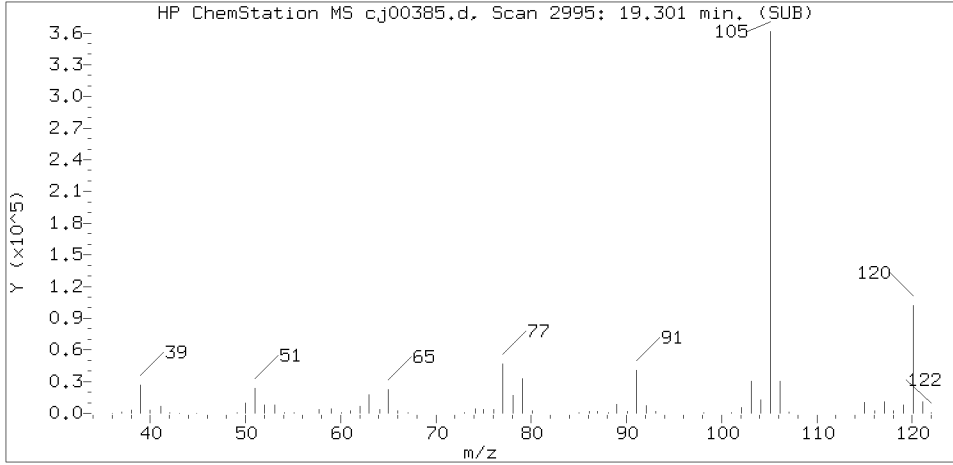
Lab Sample ID: 8087713

Compound Number : 80
 Compound Name : Cumene
 Scan Number : 2823
 Retention Time (minutes): 18.255
 Relative Retention Time : -0.00032
 Quant Ion : 105.00
 Area (flag) : 228799
 Concentration (ppb(v)) : 1.1405

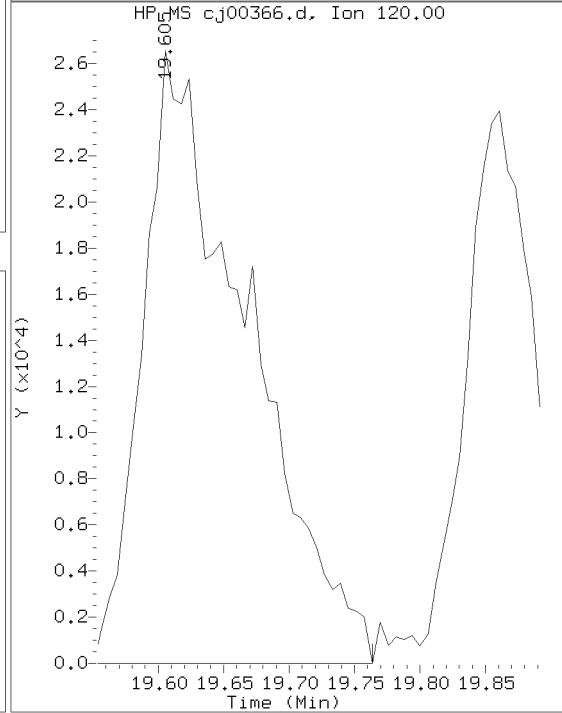
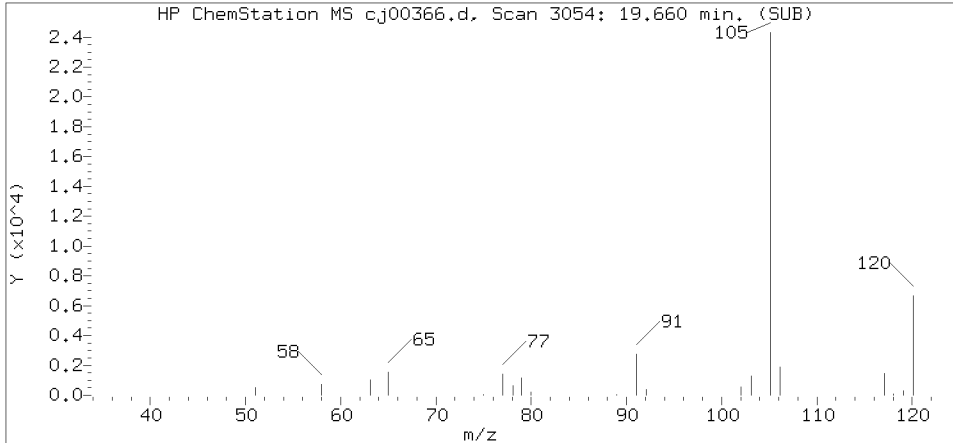
Digitally signed by Jacob E. Bailey on 10/30/2015 at 16:23.

Target 3.5 esignature user ID: jeb07445
 SSX23 Page 186 of 1243

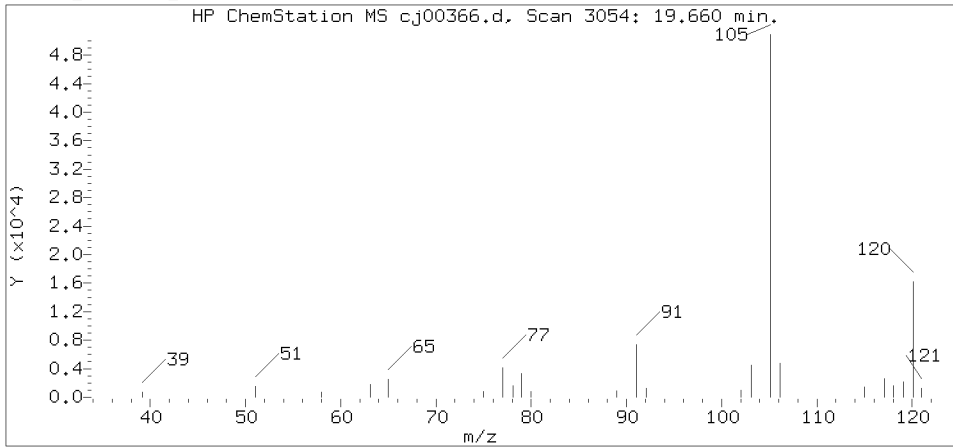
Reference Standard Spectrum for 4-Ethyltoluene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

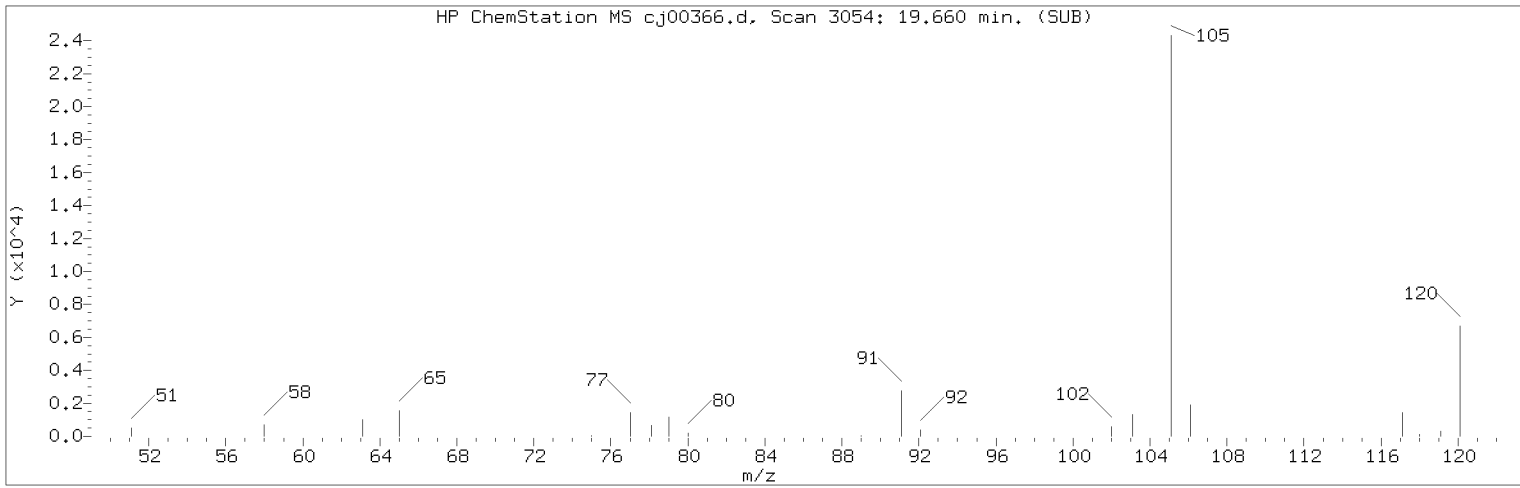
Sublist used: 292

Sample Name: 1167-

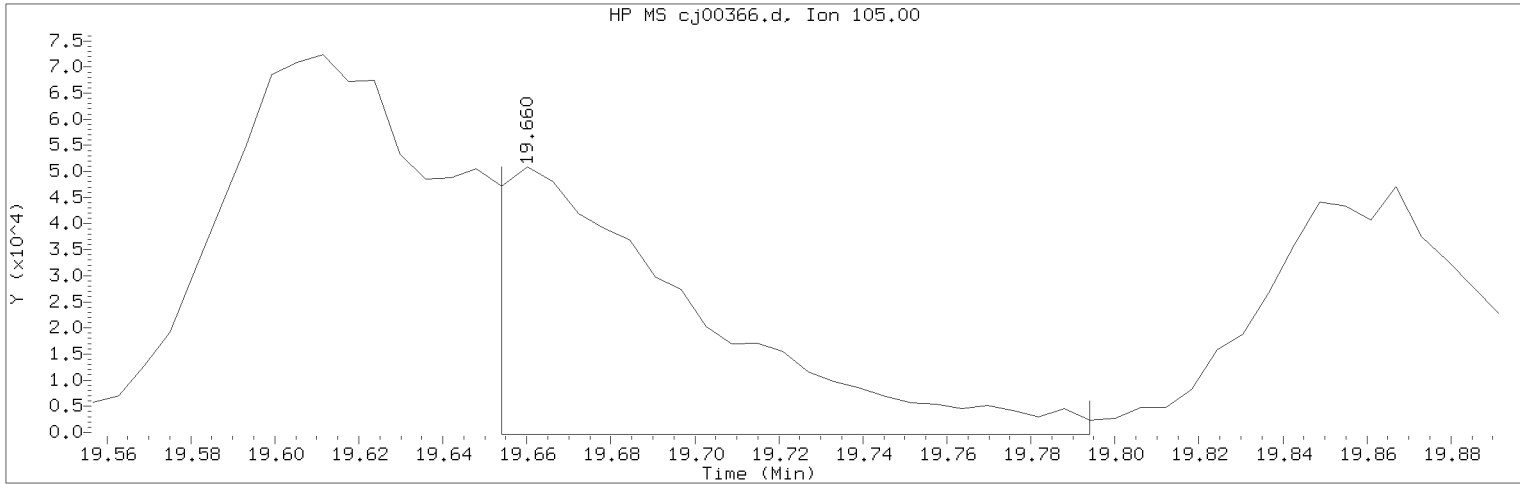
Lab Sample ID: 8087713

Compound Number : 86
 Compound Name : 4-Ethyltoluene
 Scan Number : 3054
 Retention Time (minutes): 19.660
 Relative Retention Time : 0.00089
 Quant Ion : 105.00
 Area (flag) : 172068AM
 Concentration (ppb(v)) : 0.7692

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem/HP09464.i/15oct16.b/cj00366.d Instrument ID: HP09464.i
Injection date and time: 17-OCT-2015 03:56 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m Sublist used: 292
Calibration date and time: 29-OCT-2015 11:25
Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Sample Name: 1167- Lab Sample ID: 8087713

Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 3054
Retention Time (minutes): 19.660
Quant Ion : 105.00
Area (flag) : 172068AM
Concentration (ppb(v)) : 0.7692
Integration start scan : 3052 Integration stop scan: 3075
Y at integration start : -379 Y at integration end: -379

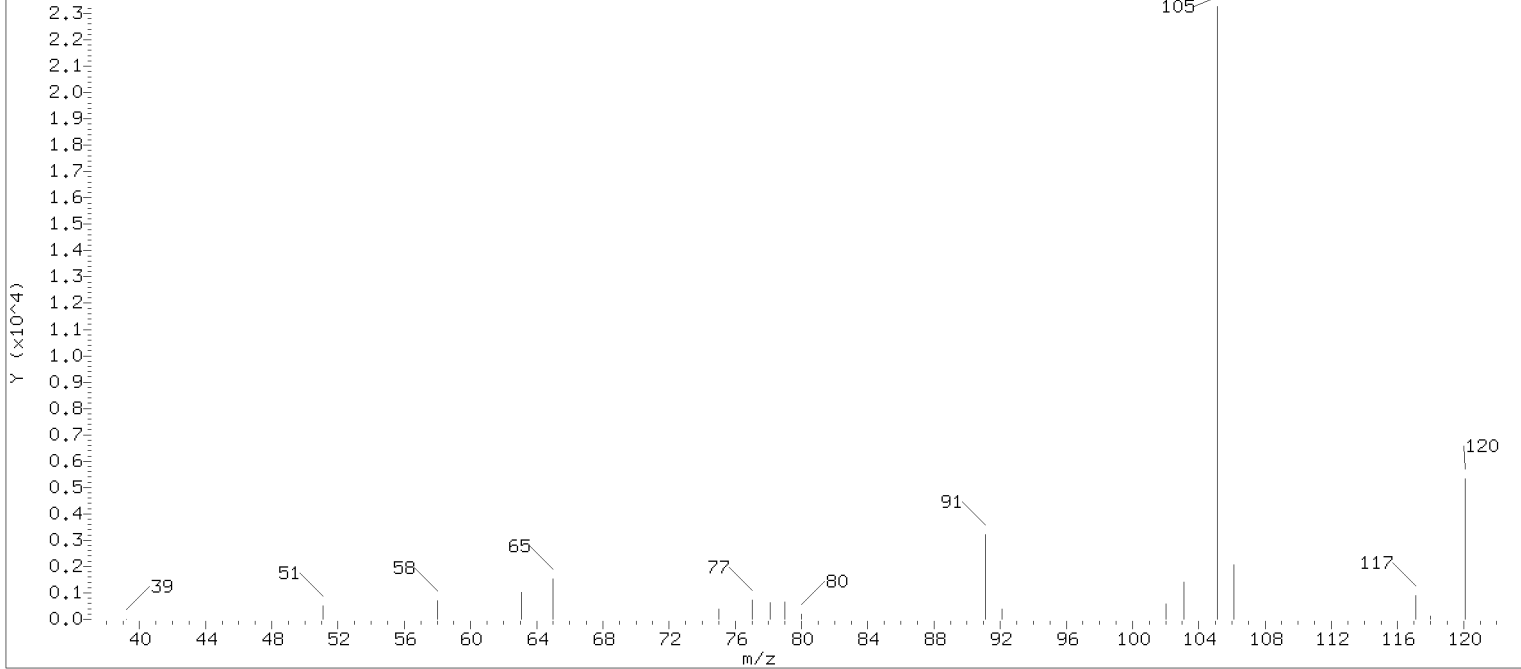
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jacob E. Bailey
on 10/30/2015 at 16:23.
Target 3.5 esignature user ID: jeb07445

Secondary review performed and digitally signed by Michele J. Smith on 11/06/2015 at 07:00.
Parallax ID: mjs00758

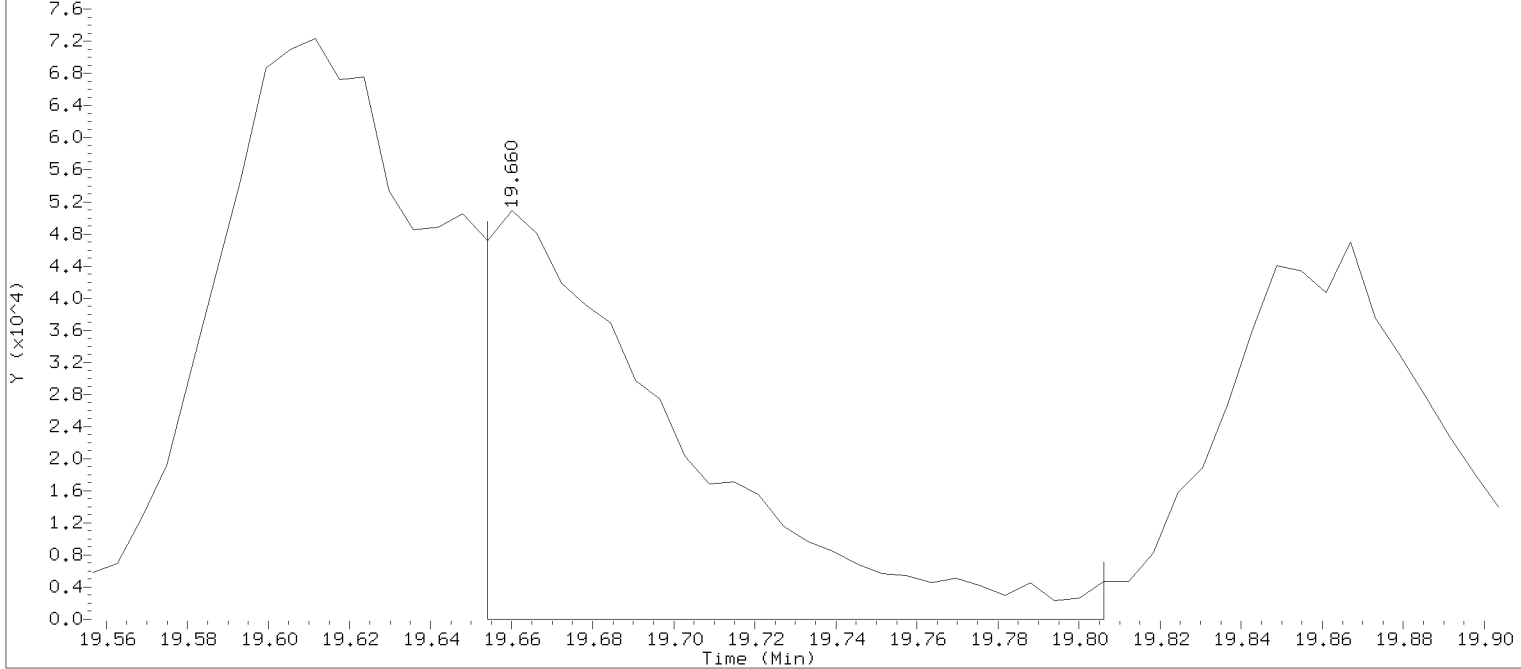
Sample Spectrum (Background Subtracted)

HP ChemStation MS cj00366.d, Scan 3054: 19.660 min. (SUB)



Original Integration of Quant Ion

HP MS cj00366.d, Ion 105.00



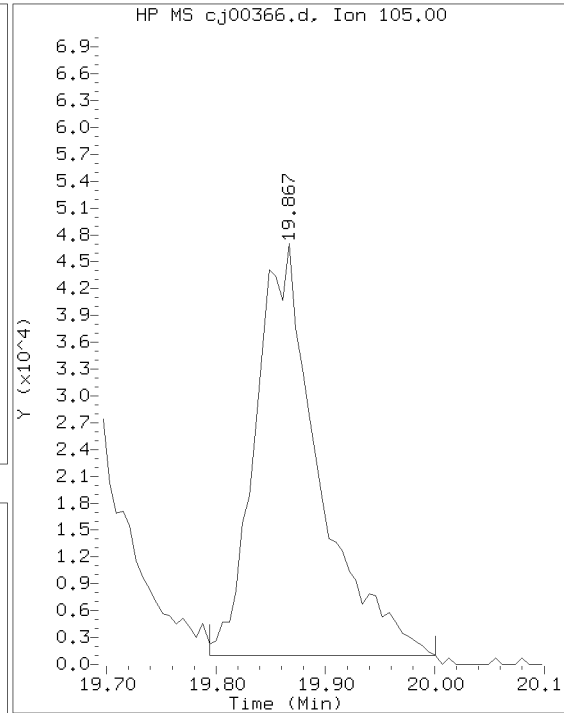
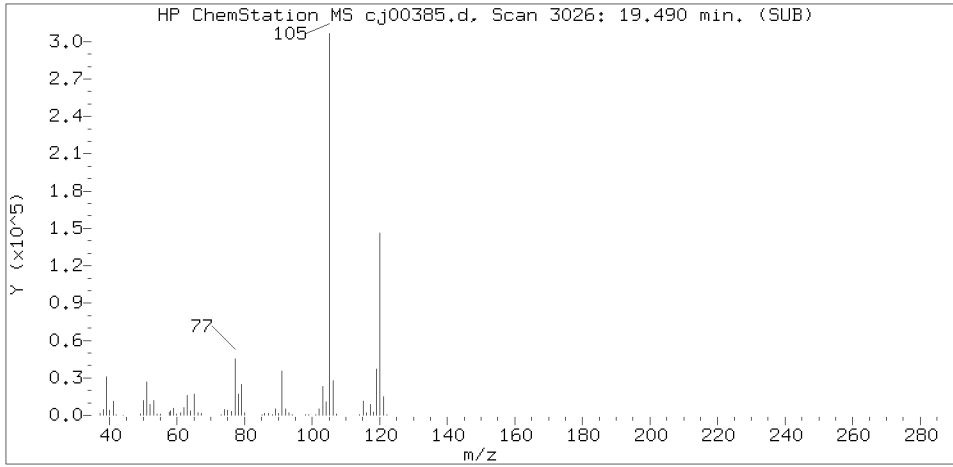
Data File: /chem/HP09464.i/15oct16.b/cj00366.d Instrument ID: HP09464.i
Injection date and time: 17-OCT-2015 03:56 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m Sublist used: 292
Calibration date and time: 16-OCT-2015 16:10
Date, time and analyst ID of latest file update: 17-Oct-2015 04:36 Automation

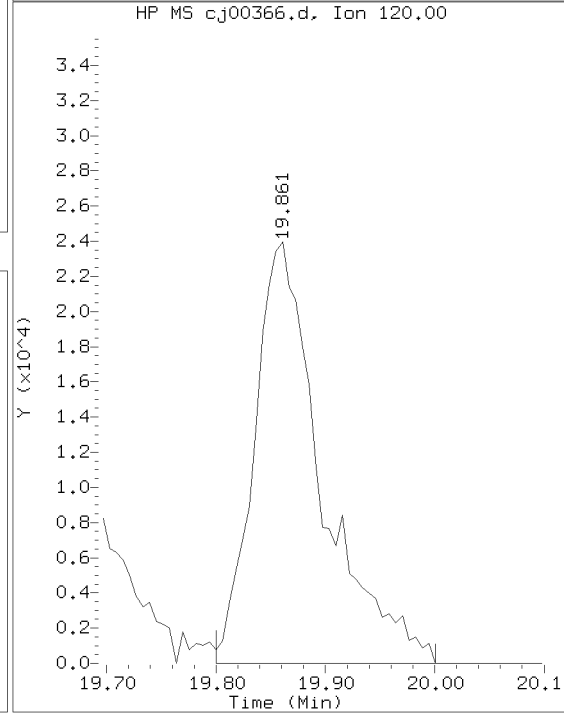
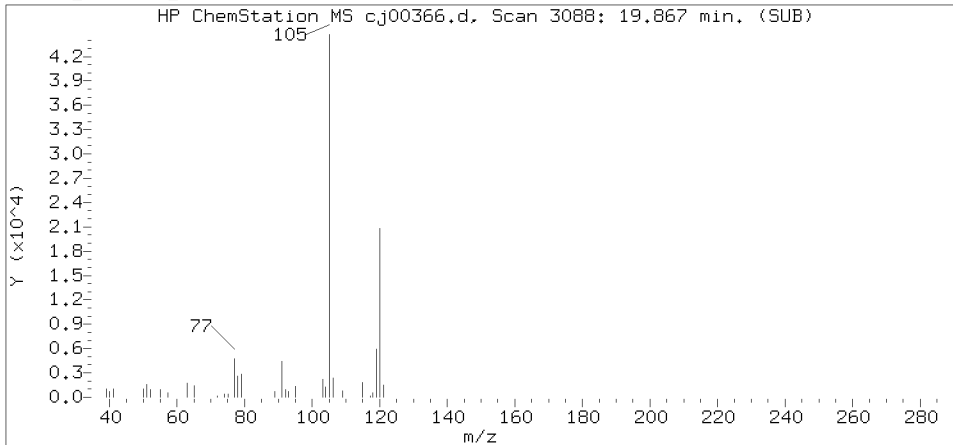
Sample Name: 1167- Lab Sample ID: 8087713

Compound Number : 86
Compound Name : 4-Ethyltoluene
Scan Number : 3054
Retention Time (minutes): 19.660
Quant Ion : 105.00
Area : 161967
Concentration (ppb(v)) : 0.7240
Integration start scan : 3052 Integration stop scan: 3077
Y at integration start : 0 Y at integration end: 0

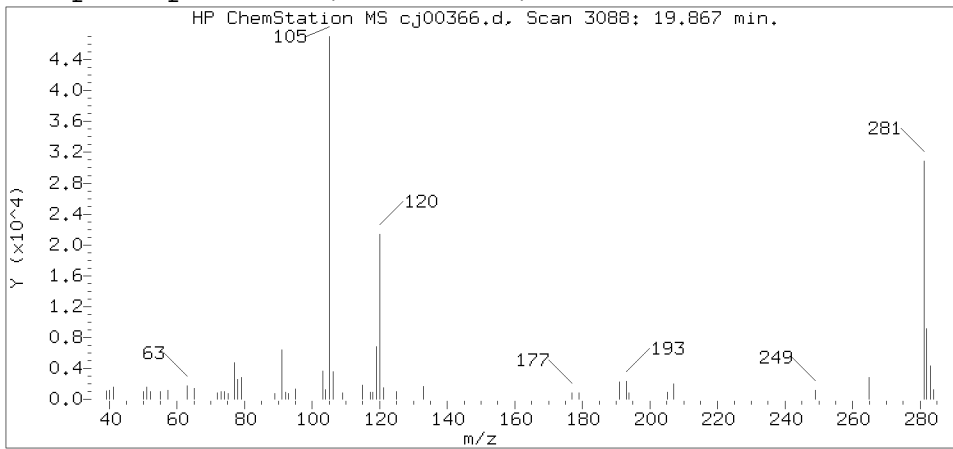
Reference Standard Spectrum for 1,3,5-Trimethylbenzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

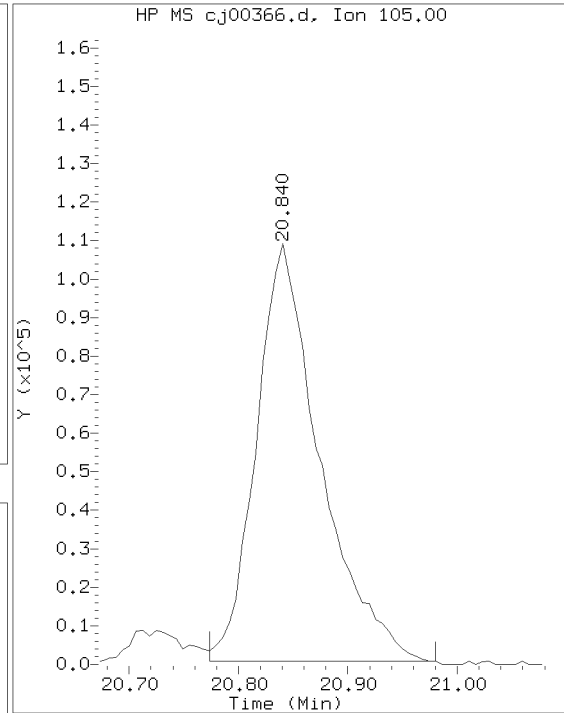
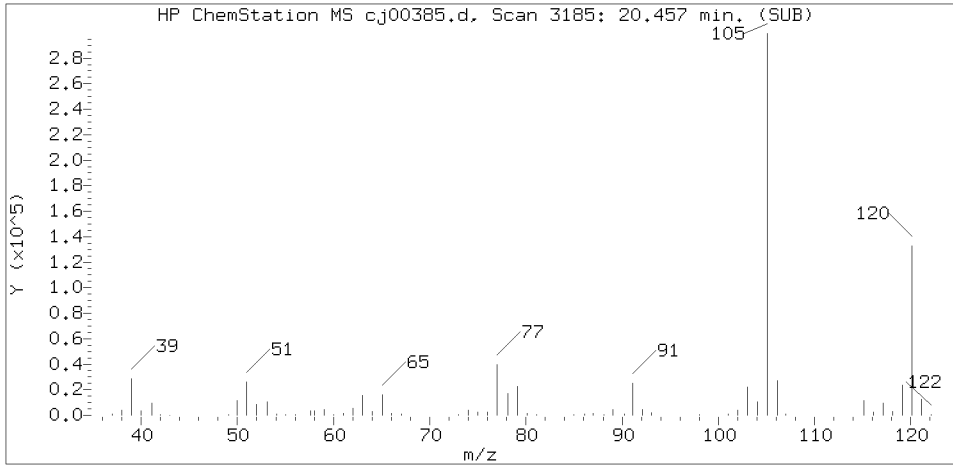
Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

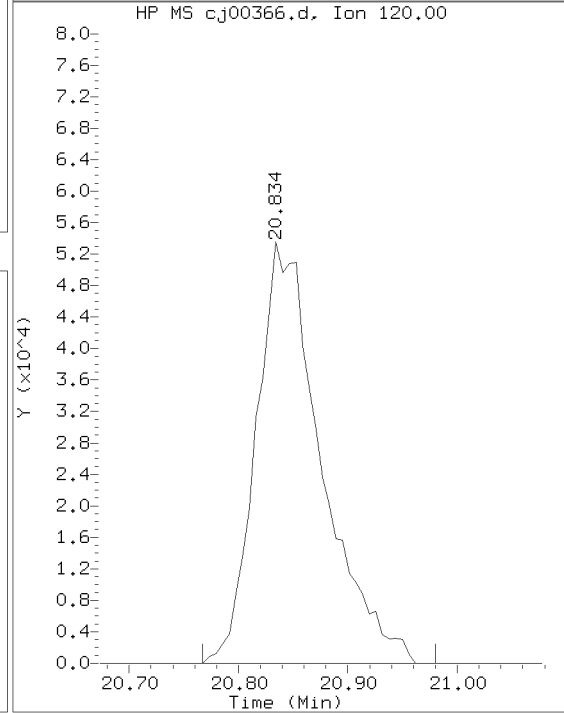
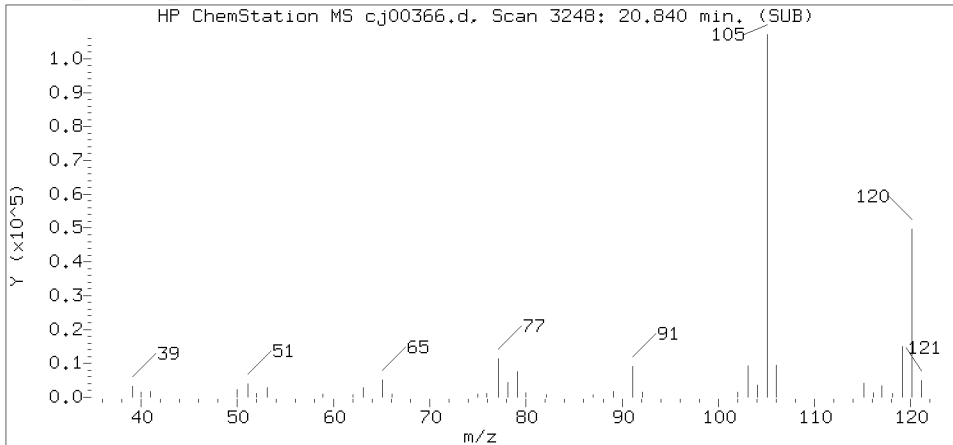
Sample Name: 1167- Lab Sample ID: 8087713

Compound Number : 87
 Compound Name : 1,3,5-Trimethylbenzene
 Scan Number : 3088
 Retention Time (minutes): 19.867
 Relative Retention Time : -0.00028
 Quant Ion : 105.00
 Area (flag) : 186523
 Concentration (ppb(v)) : 0.9684

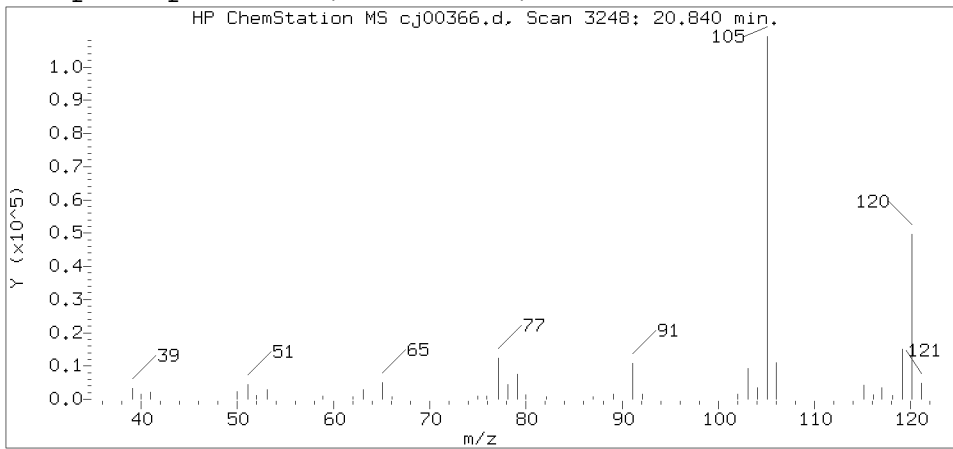
Reference Standard Spectrum for 1,2,4-Trimethylbenzene



Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)



Data File: /chem/HP09464.i/15oct16.b/cj00366.d
 Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
 Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
 Calibration date and time: 29-OCT-2015 11:25
 Date, time and analyst ID of latest file update: 30-Oct-2015 16:22 jeb07445

Sublist used: 292

Sample Name: 1167-

Lab Sample ID: 8087713

Compound Number : 90
 Compound Name : 1,2,4-Trimethylbenzene
 Scan Number : 3248
 Retention Time (minutes): 20.840
 Relative Retention Time : 0.00014
 Quant Ion : 105.00
 Area (flag) : 437895
 Concentration (ppb(v)) : 2.1895

Digitally signed by Jacob E. Bailey on 10/30/2015 at 16:23.

Target 3.5 esignature user: jeb07445
 SSX23 Page 191 of 1243

SDG No.:

Sample Media:	CANISTER	Lab Sample ID:	8087713
Canister ID:	1167	Lab File ID:	cj00366.d
Pressure Received:	27.4 psia	Date Collected:	10/10/2015
Final Pressure:	13.7 psia	Date Received:	10/14/2015
Nominal Volume:	250 cc	Analyzed Date:	10/17/2015
Injection Volume:	500 cc	Analyzed Time:	03:56
Instrument ID:	09464	Dilution Factor:	1

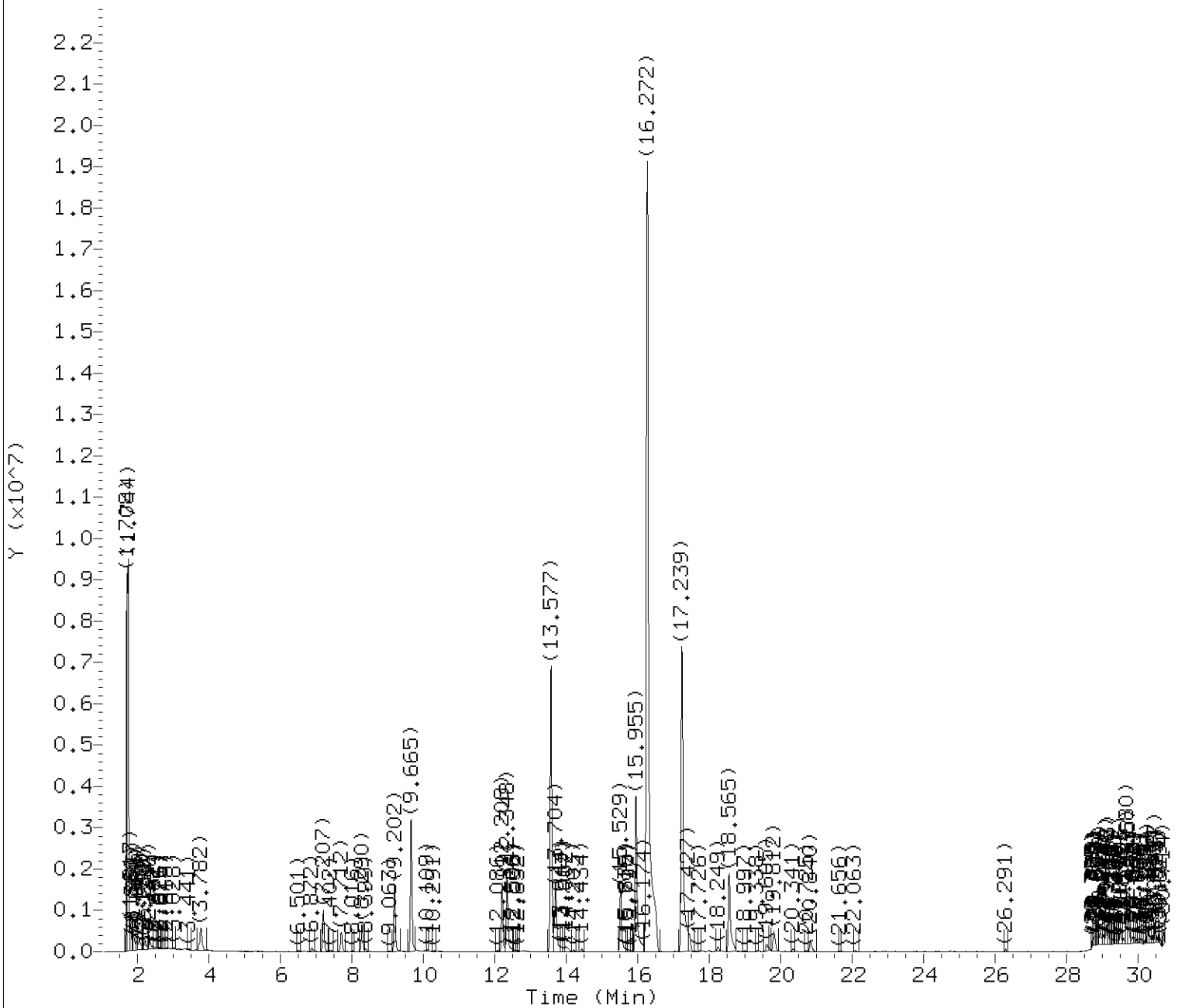
Number TICs Found: 6

Concentration Units: ppb(v)

CAS NUMBER	COMPOUND	RT	EST. CONC.	Q
811-97-2	Norflurane	1.82	5	J
106-97-8	Butane	2.22	3	J
75-07-0	Acetaldehyde	2.35	3	J
	Unknown Siloxane	13.70	13	J
	Unknown Siloxane	19.81	4	J
	Unknown Siloxane	28.94	2	J
TOTVOATIC	Total Tics		29	J

Abbreviations:

B = The compound was found in blank with a result greater than the limit being reported.
J = The result is between the MDL and LOQ.



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00366.d
Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
Calibration date and time: 21-OCT-2015 16:54

Sublist used: 292

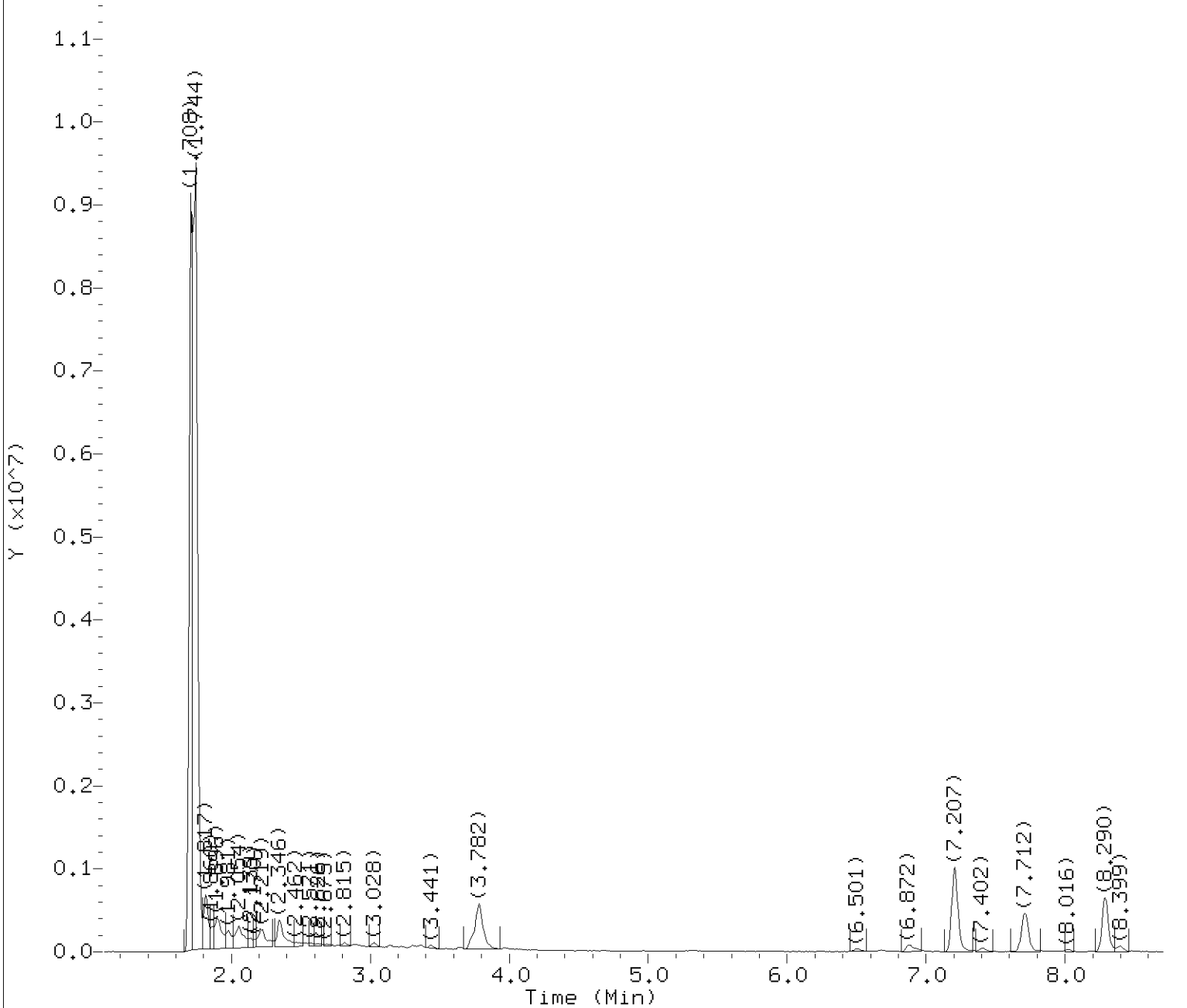
Date, time and analyst ID of latest file update: 29-Oct-2015 11:22 jbs01304

Sample Name: 1167-

Lab Sample ID: 8087713

Chromatogram Start Time (min.): 1.087
Chromatogram End Time (min.): 30.750

Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:37.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00366.d
Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
Calibration date and time: 21-OCT-2015 16:54
Date, time and analyst ID of latest file update: 29-Oct-2015 11:22 jbs01304

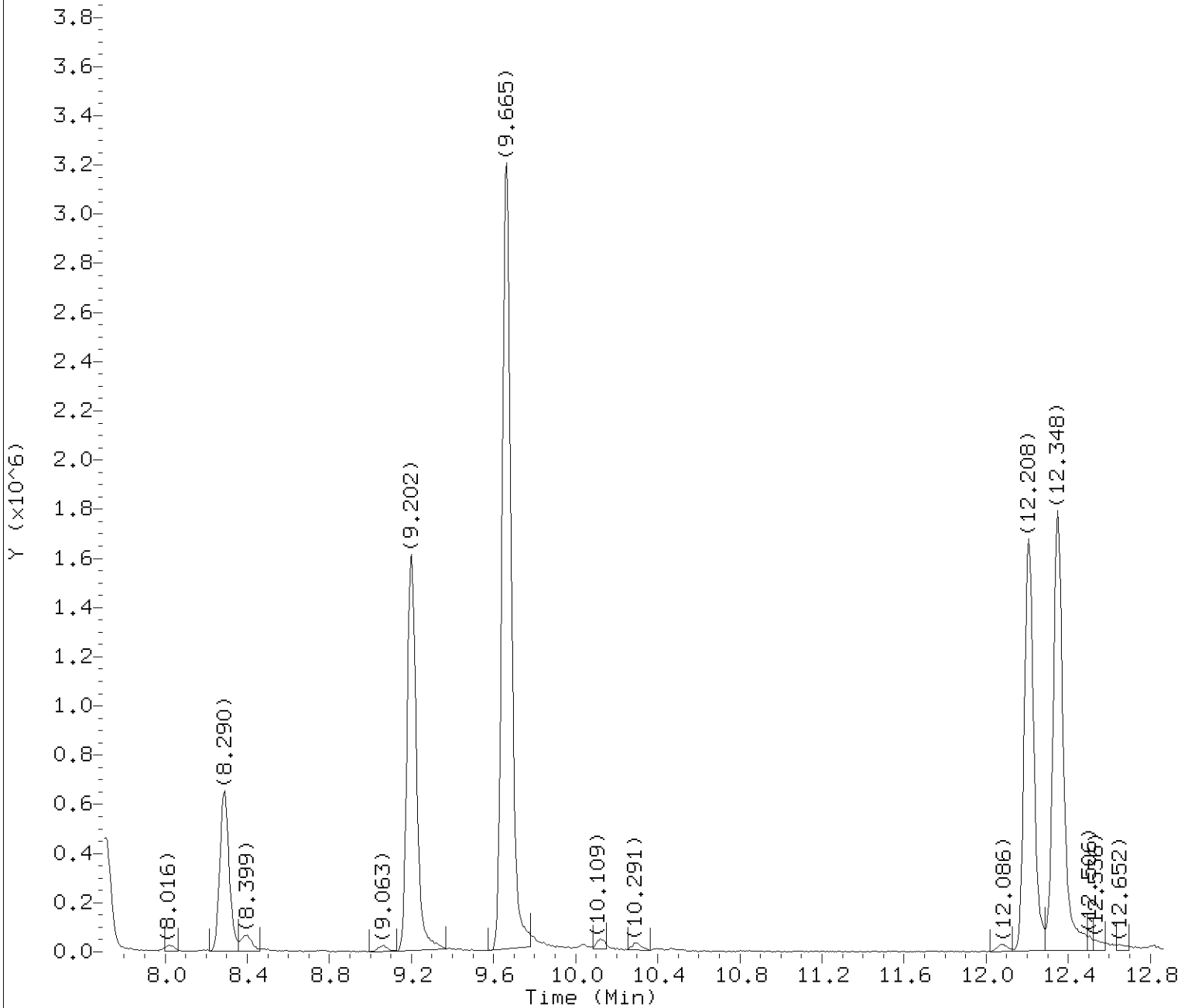
Sublist used: 292

Sample Name: 1167-

Lab Sample ID: 8087713

Internal Standard referenced: Bromochloromethane at 7.207 minutes
Chromatogram Start Time (min.): 1.087
Chromatogram End Time (min.): 8.205

Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:37.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00366.d
Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
Calibration date and time: 21-OCT-2015 16:54
Date, time and analyst ID of latest file update: 29-Oct-2015 11:22 jbs01304

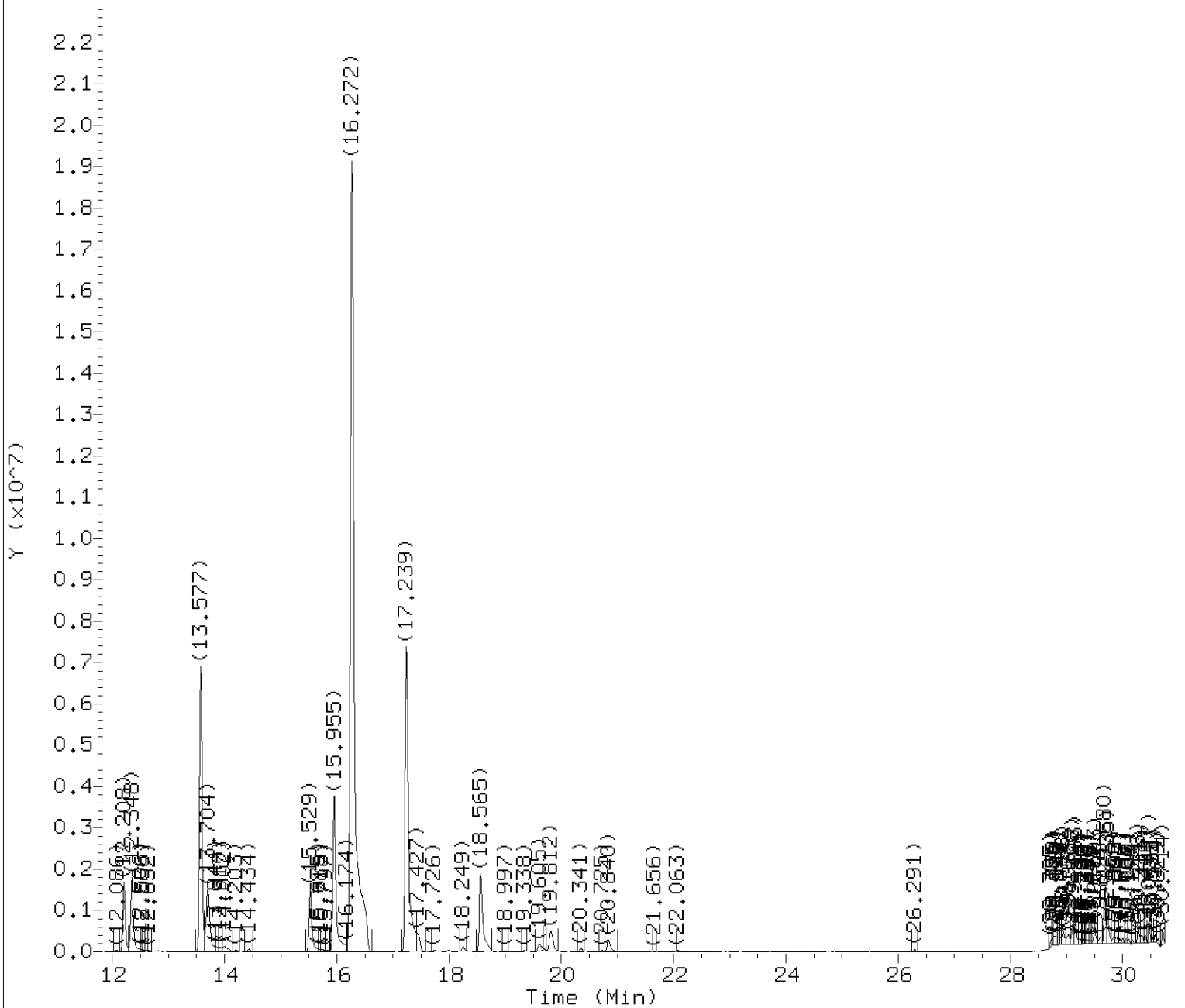
Sublist used: 292

Sample Name: 1167-

Lab Sample ID: 8087713

Internal Standard referenced: 1,4-Difluorobenzene at 9.202 minutes
Chromatogram Start Time (min.): 8.205
Chromatogram End Time (min.): 12.363

Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:37.
Target 3.5 esignature user ID: jbs01304



Tentatively Identified Compounds (TICs) Chromatograms

Target Revision 3.5

Data File: /chem/HP09464.i/15oct16.b/cj00366.d
Injection date and time: 17-OCT-2015 03:56

Instrument ID: HP09464.i
Analyst ID: jeb07445

Method used: /chem/HP09464.i/15oct16.b/to-15.m
Calibration date and time: 21-OCT-2015 16:54
Date, time and analyst ID of latest file update: 29-Oct-2015 11:22 jbs01304

Sublist used: 292

Sample Name: 1167-

Lab Sample ID: 8087713

Internal Standard referenced: Chlorobenzene-d5 at 15.523 minutes
Chromatogram Start Time (min.): 12.363
Chromatogram End Time (min.): 30.750

Digitally signed by Jeffrey B. Smith on 10/29/2015 at 11:37.
Target 3.5 esignature user ID: jbs01304

Lancaster Laboratories, Inc.

Data file : /chem/HP09464.i/15oct16.b/cj00366.d
Lab Smp Id: 8087713 Client Smp ID: 1167-
Inj Date : 17-OCT-2015 03:56
Operator : jeb07445 Inst ID: HP09464.i
Smp Info : 8087713;500;C1528830AB;1167-;0;0;SAMPLE;
Misc Info : cj00353;292.sub;250;13.7174;27.4348;1167;
Comment :
Method : /chem/HP09464.i/15oct16.b/to-15.m
Meth Date : 26-Oct-2015 14:20 jbs01304 Quant Type: ISTD
Cal Date : 16-OCT-2015 04:03 Cal File: cj00329.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 292.sub
Target Version: 3.50
Processing Host: d30cs01

Concentration Formula: Amt * DF * (Xa/Ya)*(IVn/IVa) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Xa	27.43480	canister pressure absolute after dilutio
Ya	13.71740	canister pressure absolute before diluti
IVn	250.00000	nominal injection volume
IVa	500.00000	actual injection volume

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 40 Bromochloromethane	7.207	3252303	10.000
* 71 Chlorobenzene-d5	15.523	5775236	10.000

RT	CONCENTRATIONS				QUANT		
	AREA	ON-COL(ppb(v))	FINAL(ppb(v))	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	=====	=====	====	=====	=====	=====
Norflurane				CAS #: 811-97-2			
1.817	1492326	4.58851896	4.588519	56	NIST11.1	4173	40

RT	CONCENTRATIONS			QUAL	QUANT		CPND #
	AREA	ON-COL(ppb(v))	FINAL(ppb(v))		LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====
Butane					CAS #: 106-97-8		
2.219	874915	2.69013989	2.690140	35	NIST11.1	232	40
Acetaldehyde					CAS #: 75-07-0		
2.346	1098619	3.37797161	3.377972	56	NIST11.1	71	40
Unknown Siloxane					CAS #:		
13.704	7244463	12.5440112	12.54401121	0		0	71
Unknown Siloxane					CAS #:		
19.812	2195267	3.80117311	3.801173	0		0	71
Unknown Siloxane					CAS #:		
28.938	1139603	1.97325845	1.973258	0		0	71

Date : 17-OCT-2015 03:56

Client ID: 1167-

Instrument: HP09464.i

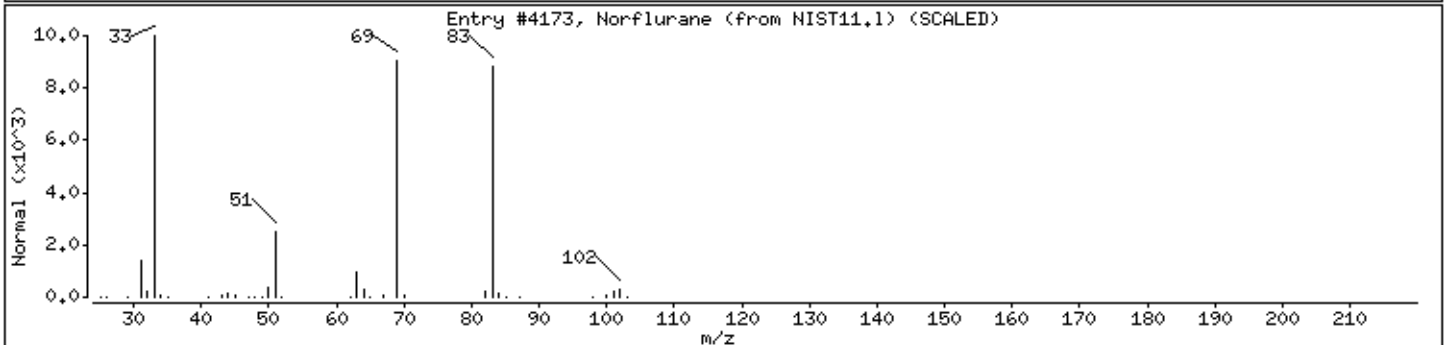
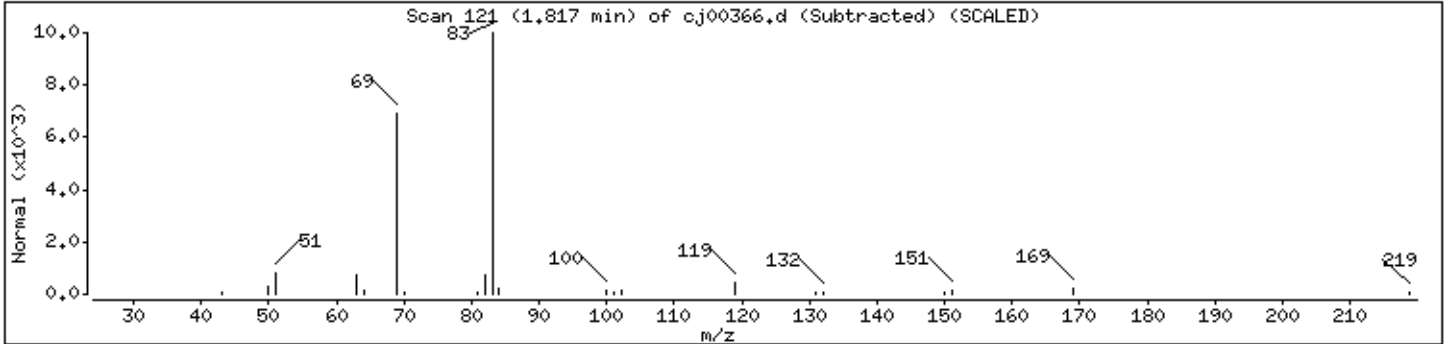
Sample Info: 8087713;500;C1528830AB;1167-;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Norflurane	811-97-2	NIST11.1	4173	56	C2H2F4	102



Date : 17-OCT-2015 03:56

Client ID: 1167-

Instrument: HP09464.i

Sample Info: 8087713;500;C1528830AB;1167-;0;0;SAMPLE;

Operator: jeb07445

Column phase: DB-624

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane	106-97-8	NIST11.1	232	35	C4H10	58

