

**DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
INDIANAPOLIS**

OFFICE MEMORANDUM

Date: April 4, 2019

To: Tim Johnson
State Cleanup Section

Thru: Steve Buckel  4/4/19

From: Kristy M. McIntire  04/04/2019
Chemistry Services Section

Subject: Analytical Results for Needham – Webb School Investigation
Franklin, Johnson County, Indiana
Site # 0000871
VFC Document # Pending
Sampled: March 27-28, 2019
Sample Numbers: LA496 – LA502
Pace Analytical

The analytical results for the samples identified above have been validated according to the quality criteria contained in the Laboratory Services Contract (RFP 17-109) and Compendium of Methods for the Determination of Toxic Organic Compounds in the Ambient Air, Second Edition. Based on the evaluation, it has been determined that the results are acceptable for use. Reasons that data are qualified as estimated are explained below.

General Comments:

The purpose of this event was to sample the sanitary sewers located near and connected to the Webb and Needham Elementary Schools to establish the presence or absence of PCE and TCE and to access a possible source of PCE and/or TCE previously detected under concrete slabs of both school buildings. The collected samples were analyzed for VOCs.

Sampling Quality Assurance/Quality Control:

Field documentation did allow for interpretation of the data.

Field duplicate samples are used to establish the representativeness of field sampling (i.e., the homogeneity and sample variability). Field duplicates were not collected as the data quality objectives of screening did not dictate duplicate samples be collected.

Field blanks (trip and/or equipment) are used to identify sample contamination resulting from sampling equipment, sample containers, chemical preservatives, and the handling and transportation of samples. The trip blank was not collected nor required for sewer

The information in this memorandum is based on documentation available at the time it was prepared.

gas samples. An ambient air sample was not required for sewer gas samples.

Laboratory Quality Assurance/Quality Control:

The laboratory performed all QA/QC measures necessary to validate the analytical results for this sampling event. The data was determined to be valid. Based on the validation of the analytical results, the following comments and/or qualifications are made regarding the data:

VOCs

Samples were analyzed for VOCs by EPA Method TO-15. All QA/QC criteria were satisfactory.

The Summa canisters were individually certified clean. The analytical documentation supporting the canister cleanliness was provided. All VOCs were non-detect indicating the canisters were sufficiently cleaned.

Results:

PCE, TCE, vinyl chloride, 1,1-dichloroethane, 1,2-dichloroethane, trans-1,2-dichloroethane, 1,1,1-trichloroethane, benzene, toluene, ethylbenzene, xylene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, naphthalene, n-heptane, n-hexane, ethanol, 4-ethyltoluene, styrene, carbon tetrachloride, chloroethane, ethyl acetate, chloromethane, cyclohexane, acetone, chloroform, dichlorodifluoromethane, bromodichloromethane, bromoform, 2-propanol, propylene, methylene chloride, carbon disulfide, tetrahydrofuran, dibromochloromethane, and 2-butanone (MEK) were detected in one or more of the sewer samples collected. Detailed results are summarized on the attached table. IDEM does not have screening levels for sewer gas samples.

Conclusions:

The data are usable for the overall project goal.

Attachment

cc: Michael Anderson, Risk Services
Kevin Davis, Remediation Services Section

Volatile Organic Analysis

Site Name: Needham - Webb Shool Investigation
Site Number: 0000871
Location: Franklin, Johnson County
Date Sampled: 27-Mar-19
Date Reported: 2-Apr-19
Sample Numbers: LA496 - LA502
Lab: Pace Analytical

Sewer Gas

UNITS: µg/m3

Sample #	Type/ID#	PCE	TCE	Vinyl Chloride	1,1-Dichloro ethane	1,2 Dichloro ethane	Trans-1,2-di chloroethene	1,1,1-trichloro ethane	Carbon Tetrachloride	Chloroethane	Ethyl acetate	Chloromethane	Cyclohexane
10468767011	LA496												
10468767009	LA497	8.5				0.63	5.7				1.5	5.2	4.9
10468767007	LA498	1.2											
10468767005	LA499	61.8	1.4	1.5	4.1	1.8	38.0	7.3	4.6	1.3		23.9	36.1
10468767013	LA500										2.9	1.2	
10468767003	LA501	58.3	1.4	1.5	4.4	1.8	33.1	7.5	3.8			23.3	33.6
10468767001	LA502												

Sample #	Type/ID#	Benzene	Toluene	Ethylbenzene	Xylene	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Naphthalene	Ethanol	4-ethyl toluene	n-heptane	n-hexane	Styrene
10468767011	LA496		6.5		3.9						21.0		
10468767009	LA497	8.2	51.2	9.5	44.5	16.5	7.6		80	5.2	2.2	4.9	
10468767007	LA498		2.5										
10468767005	LA499	32.7	726	61.6	306.2	159.0	68.6	4.2	89.3	62.5	30.6	34.7	1.3
10468767013	LA500	0.53	2.4						8.5			2.6	
10468767003	LA501	32.2	659	53.9	252	111.0	53		59.8	49.3	26.8	33.0	
10468767001	LA502								9.2				


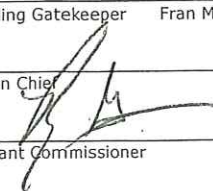
Sample #	Type/ID#	Acetone	Chloroform	Dichlorodifluoro methane	Bromodichloro methane	Bromoform	2-Propanol	Propylene Chloride	Methylene Disulfide	Carbon Disulfide	Tetrahydrofuran	Dibromochloro methane	2-butanone (MEK)
10468767011	LA496		5.9	1.8				3.2		1.5	1.1		
10468767009	LA497	40.8	903	2	16.6	15.8	26.3		18.6	113	11.7	10.9	
10468767007	LA498	14.4	20.3	2						8.2			
10468767005	LA499	53.6	3,100	1.6	41.8	29.8	5.3	6.1	30.5	2,380	34.1	22.6	5.8
10468767013	LA500	13.3		1.8					16.6				
10468767003	LA501	36.1	3,520	1.7	42.1	32.5	4.9	7.7	29.6	2,210	32.2	25.7	
10468767001	LA502	4.7	2.5	2.5									

* BLANK (Type indicated)

** FIELD DUPLICATE

Empty Box indicates NON-DETECTABLE

NR = NOT RUN NA=NOT AVAILABLE

Site & Requestor Details	OLQ Sample Request		1. Date 3/25/2019	Sample Numbers LA 496 - LA 502		
	2. Site Name NEEDHAM - WEBB SCHOOL INVESTIGATION Franklin Contamination Investigation		3. Site ID Numbers (Old) 0000794 871		(New) CZOM2 LA502	4. Grant Code 3-088-000
	5. Street Address		6. City Franklin		7. County Johnson	
	8. Person Requesting Samples Tim Johnson		Branch/Section RSB/State Cleanup		Phone 317-234-0349	
	9. Sampler(s) Tim Johnson, Haley Faulds, Ken McDaniel		Branch/Section RSB/State Cleanup		Phone 317-234-3931	
	10. Site Manager / Facility Contact Tim Johnson				Phone 317-234-3931	
	11. Reason for Sampling: Briefly describe the problem <u>sampling and analysis</u> should resolve. Electronic Copy <input type="checkbox"/> Yes This sampling event is to provide screening level data to establish the presence or absence of tetrachloroethylene (PCE) and/or trichloroethylene (TCE) in sanitary sewers located near and connected to the Webb and Needham Elementary Schools. The sewers are being sampled to assess a possible source of PCE and/or TCE previously detected under the concrete slabs of both school buildings located along Eastview Drive in Franklin, Indiana. Webb and Sanitary Sewer Vapor Samplings along Eastview Drive Franklin, IN and at Needham Elementary School: 1399 Upper Shelbyville Rd, Franklin, IN and Webb Elementary School: 1400 Webb Ct, Franklin, IN					
	12. DQO: Preliminary/Screening		13. Protocol: SAS - Air			
	14. Matrix Type: Air (Complete Section 16)		15. Dedicated Equipment? Yes			
	16. <u>This section for Air Analysis only:</u> 16 A. Six (6) Liter Summa Certification (Includes vacuum and pressure gauge): Individually Cleaned 16 B. Flow Controller: 24 hr (2 -3 ml/min)					
17. Analysis: A- VOA (full list)						
18. Samples: 7						
Duplicates: 0						
Trip Blanks:						
Equipment Blanks:						
Total: 7						
Tracking	19. Projected Sample Date(s) 3/27-28/2019		20. Projected Date(s) to Lab 3/29/2019		21. Turnaround Time 7 Days	
	22. Cooler Arrival March 26, 2019		Lab Assigned Pace		Lab Contact Carolynne Trout	
	Lab Contact Date 3/21/2019 and 3/25/2019		Lab Contact Date 3/21/2019 and 3/25/2019		Projected Cost \$2,162.00	
Actual Date to Lab		Data Package Due		Preliminary Results Received	Package Received	
Signatures	Sampling Gatekeeper Fran Metcalfe  3/25/19					
	Section Chief  3/25/19		Branch Chief			
	Assistant Commissioner		Assistant Commissioner of OMBA			
\$0-\$10,000 - Section Chief			\$10,001-\$20,000 - Add Branch Chief			
\$20,001-\$40,000 - Add Assistant Commissioner of OLQ			Over \$40,000 - Add Assistant Commissioner of OMBA			

SITE INFORMATION *

IDEM Sample #s: LA496 through LA502 Sampling Date(s): 27/28 March 2019
Site Name: Needham - Webb School Investigation Site ID #: 0000871
Street Address: _____ City: Franklin County: Johnson

Site Representative(s): EVAN + ANDY FROM CITY UTILITIES Company: CITY UTILITIES
IDEM Samplers: Kenneth C. McDaniel, Haley Faulds, Tim Johnson Laboratory: Pace

Weather Conditions: Sky SUNNY Ground Yes Wind S 7MPH Temp 50° F Humidity _____

Sample Types (check all applicable):
 Mon. Well Res. Well Creek Leachate Ditch
 Drainage Tile Lagoon Pond Sludge Sediment Industrial Waste
 Waste Pile Soil Truck Drummed Waste Waste Liquid Oil
 Solvent Sand Ash Other Sewer
Sample Choice (check): Grab Composite Statistical Random Judgmental

Sampling Equipment Used: Six liter Summa, 24 hour flow controller.
Decontamination Procedures: NA

Field Test Equipment Used: ppb Rae
Calibration Notes: _____

Container Source: Pace Sample Preservative Source: NA
Blank Water Source: NA Decontamination Water Source: NA

Program Area (check): RCRA CERCLA Solid Waste DOD LUST/UST VRP
 State Cleanup Emergency Response Other _____
Purpose (check): Complaint Compliance Enforcement Other _____
Constituents Expected: _____ Handling Precaution: Yes No

Photos Taken? Yes No Send analytical data review to: Tim Johnson Phone: 317-234-3931

Other Notes or Deviations from Sampling Plan: _____

VAPOR INTRUSION SAMPLE FIELD SHEET*

Site Name: <u>Needham – Webb School Investigation</u>	County: <u>Johnson</u>
IDEM/OLQ Sample #: <u>LA 502</u>	Sample ID: _____
Collection Start Date: <u>27 / March / 2019</u>	Start Time: <u>1</u> : <u>04</u> AM / <u>PM</u>
Collection End Date: <u>28 / March / 2019</u>	End Time: <u>12</u> : <u>05</u> AM / <u>PM</u>

- Sample Types (check all applicable):** Sub-Slab Soil Gas Indoor Air Ambient
 Crawl Space Trip Blank Field Blank Equipment Blank Background MS/MSD
 Duplicate of _____ Other Sewer GAS

Canisters:

Canister(type): Summa Size of Canister: Six liter
Canister Serial No: PACE 1660 Flow Controller No: FC0541

Sample Location Information: (location marker, depth taken, floor, etc.)

NEEDHAM #1 SOUTHWEST CORNER OF NEEDHAM SCHOOL
MANHOLE # 140133

Purge Volume: NA Purge Volume Calculation (3 * (depth to screen + tube stick up))

Sampling Information

Ambient Start Temperature: <u>50° F</u>	Ambient Stop Temperature: <u>59° F</u>
Interior Start Temperature: _____	Interior Stop Temperature: _____
Ambient Start Air Pressure: _____	Ambient Stop Pressure: _____
Canister Start Pressure: <u>-29</u>	Canister Stop Pressure: <u>-3</u>

Other Observations:

0 PPB, SUSPENDED BY DOWEL ROD, 0 PPB

Deviations from Sampling Plan: _____

Sampler Signature: Haley Fowler Date: 27 March 2019

* This form is for general use in OLQ sampling projects.

VAPOR INTRUSION SAMPLE FIELD SHEET*

Site Name: <u>Needham – Webb School Investigation</u>	County: <u>Johnson</u>
IDEM/OLQ Sample #: <u>LA 501</u>	Sample ID: _____
Collection Start Date: <u>27 / March / 2019</u>	Start Time: <u>1</u> : <u>40</u> AM / <u>(PM)</u>
Collection End Date: <u>28 / March / 2019</u>	End Time: <u>12</u> : <u>41</u> AM / <u>(PM)</u>

- Sample Types (check all applicable):** Sub-Slab Soil Gas Indoor Air Ambient
 Crawl Space Trip Blank Field Blank Equipment Blank Background MS/MSD
 Duplicate of _____ Other Sewer GAS

Canisters:

Canister(type): Summa Size of Canister: Six liter
Canister Serial No: PAGE 0015 Flow Controller No: FC0454

Sample Location Information: (location marker, depth taken, floor, etc.)

HURRICANE + ARVIN ROAD, NORTHWEST CORNER OF INTERSECTION
MANHOLE # 180690

Purge Volume: NA Purge Volume Calculation (3 * (depth to screen + tube stick up))

Sampling Information

Ambient Start Temperature: <u>50° F</u>	Ambient Stop Temperature: <u>61° F</u>
Interior Start Temperature: _____	Interior Stop Temperature: _____
Ambient Start Air Pressure: _____	Ambient Stop Pressure: _____
Canister Start Pressure: <u>-29</u>	Canister Stop Pressure: <u>-5</u>

Other Observations:

5545 PPB, SUSPENDED ON CHAIN ON FIRST RUNG, 4583 PPB

Deviations from Sampling Plan: _____

* This form is for general use in OLQ sampling projects.

VAPOR INTRUSION SAMPLE FIELD SHEET*

Site Name: <u>Needham – Webb School Investigation</u>	County: <u>Johnson</u>
IDEM/OLQ Sample #: <u>LA 499</u>	Sample ID: _____
Collection Start Date: <u>27 / March / 2019</u>	Start Time: <u>2 : 04</u> AM / <u>(PM)</u>
Collection End Date: <u>28 / March / 2019</u>	End Time: <u>1 : 07</u> AM / <u>(PM)</u>

Sample Types (check all applicable): Sub-Slab Soil Gas Indoor Air Ambient
 Crawl Space Trip Blank Field Blank Equipment Blank Background MS/MSD
 Duplicate of _____ Other Sewer GAS

Canisters:

Canister(type): Summa Size of Canister: Six liter
Canister Serial No: PAGE 3347 Flow Controller No: FC 1683

Sample Location Information: (location marker, depth taken, floor, etc.)

UPPER SHELBYVILLE ROAD WEST
MANHOLE # 180740

Purge Volume: NA Purge Volume Calculation (3 * (depth to screen + tube stick up))

Sampling Information

Ambient Start Temperature: <u>51° F</u>	Ambient Stop Temperature: <u>63° F</u>
Interior Start Temperature: _____	Interior Stop Temperature: _____
Ambient Start Air Pressure: _____	Ambient Stop Pressure: _____
Canister Start Pressure: <u>-32</u>	Canister Stop Pressure: <u>-4</u>

Other Observations:

7534 PPB, CHAIN ON FIRST RUNG, 14,390 PPB

Deviations from Sampling Plan: _____

* This form is for general use in OLQ sampling projects.

VAPOR INTRUSION SAMPLE FIELD SHEET*

Site Name: <u>Needham – Webb School Investigation</u>	County: <u>Johnson</u>
IDEM/OLQ Sample #: <u>LA 498</u>	Sample ID: _____
Collection Start Date: <u>27 / March / 2019</u>	Start Time: <u>2 : 20 AM (PM)</u>
Collection End Date: <u>28 / March / 2019</u>	End Time: <u>1 : 22 AM (PM)</u>

- Sample Types (check all applicable): Sub-Slab Soil Gas Indoor Air Ambient
 Crawl Space Trip Blank Field Blank Equipment Blank Background MS/MSD
 Duplicate of _____ Other Sewer GAS

Canisters:

Canister(type): Summa Size of Canister: Six liter
Canister Serial No: FACE2178 Flow Controller No: FC1957

Sample Location Information: (location marker, depth taken, floor, etc.)

UPPERSHELBYVILLE ROAD EAST SIDE,
MANHOLE # ~~150030~~^{HF} ~~180740~~^{HF} 150030

Purge Volume: NA Purge Volume Calculation (3 * (depth to screen + tube stick up))

Sampling Information

Ambient Start Temperature: <u>53° F</u>	Ambient Stop Temperature: <u>63° F</u>
Interior Start Temperature: _____	Interior Stop Temperature: _____
Ambient Start Air Pressure: _____	Ambient Stop Pressure: _____
Canister Start Pressure: <u>-29.5</u>	Canister Stop Pressure: <u>-3.3</u>

Other Observations:

0 PPB, HANGING OFF PAVEL ROD, 20 PPB

Deviations from Sampling Plan: _____

* This form is for general use in OLQ sampling projects.

VAPOR INTRUSION SAMPLE FIELD SHEET*

Site Name: <u>Needham – Webb School Investigation</u>	County: <u>Johnson</u>
IDEM/OLQ Sample #: <u>LA 497</u>	Sample ID: _____
Collection Start Date: <u>27 / March / 2019</u>	Start Time: <u>2</u> : <u>47</u> AM / <u>(PM)</u>
Collection End Date: <u>28 / March / 2019</u>	End Time: <u>1</u> : <u>48</u> AM / <u>(PM)</u>

Sample Types (check all applicable): Sub-Slab Soil Gas Indoor Air Ambient
 Crawl Space Trip Blank Field Blank Equipment Blank Background MS/MSD
 Duplicate of _____ Other Sewer GAS

Canisters:

Canister(type): Summa Size of Canister: Six liter
Canister Serial No: PAGE 2811 Flow Controller No: FC1365

Sample Location Information: (location marker, depth taken, floor, etc.)

NEEDHAM SOFTBALL FIELD
MANHOLE 140130

Purge Volume: NA Purge Volume Calculation (3 * (depth to screen + tube stick up))

Sampling Information

Ambient Start Temperature: <u>53° F</u>	Ambient Stop Temperature: <u>63° F</u>
Interior Start Temperature: _____	Interior Stop Temperature: _____
Ambient Start Air Pressure: _____	Ambient Stop Pressure: _____
Canister Start Pressure: <u>-29.5</u>	Canister Stop Pressure: <u>-3.5</u>

Other Observations:

318 PPB, CITY HANGING DEVICE, 0 PPB

Deviations from Sampling Plan: _____

* This form is for general use in OLQ sampling projects.

VAPOR INTRUSION SAMPLE FIELD SHEET*

Site Name: <u>Needham – Webb School Investigation</u>	County: <u>Johnson</u>
IDEM/OLQ Sample #: <u>LA 496</u>	Sample ID: _____
Collection Start Date: <u>27 / March / 2019</u>	Start Time: <u>3 : 12</u> AM / <u>(PM)</u>
Collection End Date: <u>28 / March / 2019</u>	End Time: <u>2 : 16</u> AM / <u>(PM)</u>

- Sample Types (check all applicable): Sub-Slab Soil Gas Indoor Air Ambient
 Crawl Space Trip Blank Field Blank Equipment Blank Background MS/MSD
 Duplicate of _____ Other Sewer GAS

Canisters:

Canister(type): Summa Size of Canister: Six liter
Canister Serial No: PACE 2817 Flow Controller No: FC 0057

Sample Location Information: (location marker, depth taken, floor, etc.)

SOUTHWEST CORNER OF PARKING LOT WEBB SCHOOL
MANHOLE # 240203

Purge Volume: NA Purge Volume Calculation (3 * (depth to screen + tube stick up))

Sampling Information

Ambient Start Temperature: <u>53°F</u>	Ambient Stop Temperature: <u>68°F</u>
Interior Start Temperature: _____	Interior Stop Temperature: _____
Ambient Start Air Pressure: _____	Ambient Stop Pressure: _____
Canister Start Pressure: <u>-29.5</u>	Canister Stop Pressure: <u>-3.5</u>

Other Observations:

1 PPB, HANGING ON DOWEL ROD, 0 PPB

Deviations from Sampling Plan: _____

* This form is for general use in OLQ sampling projects.

VAPOR INTRUSION SAMPLE FIELD SHEET*

Site Name: <u>Needham – Webb School Investigation</u>	County: <u>Johnson</u>
IDEM/OLQ Sample #: <u>LA 500</u>	Sample ID: _____
Collection Start Date: <u>27 / March / 2019</u>	Start Time: <u>4 : 05 AM</u> (PM)
Collection End Date: <u>28 / March / 2019</u>	End Time: <u>3 : 05 AM</u> (PM)

Sample Types (check all applicable): Sub-Slab Soil Gas Indoor Air Ambient
 Crawl Space Trip Blank Field Blank Equipment Blank Background MS/MSD
 Duplicate of _____ Other Sewer GAS

Canisters:

Canister(type): Summa Size of Canister: Six liter
Canister Serial No: PACE 0255 Flow Controller No: FC0523

Sample Location Information: (location marker, depth taken, floor, etc.)

WEBB SEWER CLEAN-OUT SOUTHWEST CORNER OF SCHOOL

Purge Volume: NA Purge Volume Calculation (3 * (depth to screen + tube stick up))

Sampling Information

Ambient Start Temperature: <u>53°F</u>	Ambient Stop Temperature: <u>68°F</u>
Interior Start Temperature: _____	Interior Stop Temperature: _____
Ambient Start Air Pressure: _____	Ambient Stop Pressure: _____
Canister Start Pressure: <u>-30</u>	Canister Stop Pressure: <u>-1</u>

Other Observations:

0PPB, CANISTER CHAINED NEXT TO SEWER CLEAN-OUT, 0 PPB

Deviations from Sampling Plan: _____

Revision 2-12-07, 10-4-18 Sampler Signature: Haley Faulstich Date: 27 March 2019

* This form is for general use in OLQ sampling projects.



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

38482

Page: of

Section A
Required Client Information:

Company: STATE OF INDIANA IDEM
 Address: 160 N SENATE AVE
INDY, IN 46204
 Email To: _____
 Phone: _____ Fax: _____
 Requested Due Date/TAT: _____

Section B
Required Project Information:

Report To: DAVID HARRISON
 Copy To: _____
 Purchase Order No.: _____
 Project Name: _____
 Project Number: _____

Section C
Invoice Information:

Attention: _____
 Company Name: _____
 Address: _____
 Pace Quote Reference: _____
 Pace Project Manager/Sales Rep: _____
 Pace Profile #: 2453

Program
 UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other _____
 Location of Sampling by State: _____
 Reporting Units: ug/m³ mg/m³
 PPMV PPMV Other _____
 Report Level: II, III, IV, Other _____

ITEM #	Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE TB Tedar Bag 1 Liter Summa Can 6 Liter Summa Can Low Volume Puff High Volume Puff Other PM10	COLLECTED		Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method:	Pace Lab ID		
			COMPOSITE START DATE TIME	COMPOSITE - END/SAB DATE TIME								
1	LA502	GLC 0	3/27/19	10:40	3/27/19	10:50	-29	-3	1660	30541	X	
2	LA561	GLC 117	3/27/19	14:00	3/28/19	10:45	-31	-5	0018	0454	X	
3	LA499	GLC 118	3/27/19	20:40	3/28/19	10:45	-32	-4	3347	1683	X	
4	LA418	GLC 30	3/27/19	20:40	3/27/19	10:45	-215	-53	2178	4957	X	
5	LA497	GLC 318	3/27/19	20:40	3/28/19	10:45	-215	-35	2211	1965	X	
6	LA496	GLC 1	3/27/19	21:00	3/27/19	21:00	-215	-35	2817	0057	X	
7	LA500	GLC 6	3/27/19	20:50	3/27/19	20:50	-30	-1	0255	0523	X	
8												
9												
10												
11												
12												

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<u>David Harrison</u>	<u>3/27/19</u>	<u>3:37 PM</u>	<u>David Harrison</u>	<u>3/27/19</u>	<u>3:37 PM</u>	Temp in °C Received on Ice Custody Sealed Cooler Samples Intact

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: DAVID HARRISON
 SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 3/27/19



Media Order # 1036053

Sent to Can Room 03/21/19 03:05 PM CT
Report Printed 3/24/2019 07:39 AM

Ordered By:

Ship To:

Return To:

Contact: Fran Metcalf Company: IDEM Address: 100 North Senate Ave. City, St, ZIP: Indianapolis, IN, 46204 Phone: 317-232-7166	Contact: Fran Metcalf Company: IDEM Address: 100 North Senate Ave. City, St, ZIP: Indianapolis, IN, 46204 Phone: 317-232-7166	Contact: Sample Receiving Lab Name: PACE - MN Address: 1700 Elm Street Ste 200 City, St, ZIP: Minneapolis, MN, 55414 Phone: 612-607-1700
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Initiator: Carolynne Trout

PM: Carolynne Trout

Profile Number: 33458

Proj. Description: TO15

Quote Number:

Shipping Method: FedEx

Required By: 3/26/2019 PM

Expected Return Date: 3/29/2019

Tracking #:

<u>Return Shipping Labels</u> <input type="checkbox"/> No Shipper Number <input checked="" type="checkbox"/> With Shipper Number	<u>CoC's</u> <input checked="" type="checkbox"/> Blank # 1 <input type="checkbox"/> Preprinted	<u>Bottle Labels</u> <input type="checkbox"/> Blank <input type="checkbox"/> Pre-Printed - With Sample IDs <input type="checkbox"/> Pre-Printed - No Sample IDs	<u>Bottles</u> <input type="checkbox"/> Boxed Cases <input type="checkbox"/> Individually Wrapped <input type="checkbox"/> Grouped By Sample ID/Matrix
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<u>Miscellaneous</u>		
<input type="checkbox"/> Sampling Instructions	<input type="checkbox"/> Coolers	<input type="checkbox"/> Short Hold/Rush Stickers
<input type="checkbox"/> Custody Seal	<input type="checkbox"/> Extra Bubble Wrap	<input type="checkbox"/> DI Water
<input type="checkbox"/> Temperature Blanks	<input type="checkbox"/> 10 mL Cut-Off Syringes	

Trip Blank

Notes: Send by 2 day or Standard Overnight (not Ground)

Qty	Method	Media Specification	Certification Level	Notes
7	TO-15	6 L Canister	Individual Cert	Ind. Cert.
7	Canister Attachments	Flow Controller with Gauge (specify setting)		24 hour
7	Other Misc.	Fitting/Ferrule/Tubing/Filter		
1	Other Misc.	Additional Tubing (specify # of feet)		30 feet of tugin instead of short sections

Hazard Shipping Placard In Place:

*Sample receiving hours are Monday through Friday 8:00 am to 6:00 pm and Saturday from 9:00 am to 12:00 pm unless special arrangements are made with you project manager.

*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.

*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage and disposal.

*Payment term are net 30 days.

*Please include the proposal number on the chain of custody to insure proper billing

3249
①

April 02, 2019

David Harrison
IDEM
100 North Senate Avenue
Indianapolis, IN 462042251

RE: Project: LA 496-LA 502
Pace Project No.: 10468767

Dear David Harrison:

Enclosed are the analytical results for sample(s) received by the laboratory on March 29, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LA 496-LA 502

Pace Project No.: 10468767

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137

Minnesota Petrofund Certification #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: LA 496-LA 502

Pace Project No.: 10468767

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10468767001	LA 502	Air	03/28/19 12:05	03/29/19 09:45
10468767002	LA 502 CERT 1660	Air	03/28/19 12:05	03/29/19 09:45
10468767003	LA 501	Air	03/28/19 12:41	03/29/19 09:45
10468767004	LA 501 CERT 0018	Air	03/28/19 12:41	03/29/19 09:45
10468767005	LA 499	Air	03/28/19 13:07	03/29/19 09:45
10468767006	LA 499 CERT 3347	Air	03/28/19 13:07	03/29/19 09:45
10468767007	LA 498	Air	03/28/19 13:22	03/29/19 09:45
10468767008	LA 498 CERT 2178	Air	03/28/19 13:22	03/29/19 09:45
10468767009	LA 497	Air	03/28/19 13:48	03/29/19 09:45
10468767010	LA 497 CERT 2811	Air	03/28/19 13:48	03/29/19 09:45
10468767011	LA 496	Air	03/28/19 14:16	03/29/19 09:45
10468767012	LA 496 CERT 2817	Air	03/28/19 14:16	03/29/19 09:45
10468767013	LA 500	Air	03/28/19 15:05	03/29/19 09:45
10468767014	LA 500 CERT 0255	Air	03/28/19 15:05	03/29/19 09:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LA 496-LA 502

Pace Project No.: 10468767

Lab ID	Sample ID	Method	Analysts	Analytes Reported
10468767001	LA 502	TO-15	MJL	61
10468767002	LA 502 CERT 1660	TO-15	NCK	61
10468767003	LA 501	TO-15	MJL	61
10468767004	LA 501 CERT 0018	TO-15	MG2	61
10468767005	LA 499	TO-15	MJL	61
10468767006	LA 499 CERT 3347	TO-15	MJL	61
10468767007	LA 498	TO-15	MJL	61
10468767008	LA 498 CERT 2178	TO-15	MJL	61
10468767009	LA 497	TO-15	MJL	61
10468767010	LA 497 CERT 2811	TO-15	MG2	61
10468767011	LA 496	TO-15	MJL	61
10468767012	LA 496 CERT 2817	TO-15	MLS	61
10468767013	LA 500	TO-15	MJL	61
10468767014	LA 500 CERT 0255	TO-15	MJL	61

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LA 496-LA 502
Pace Project No.: 10468767

Sample: LA 502	Lab ID: 10468767001	Collected: 03/28/19 12:05	Received: 03/29/19 09:45	Matrix: Air				
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	4.7	ug/m3	3.6	1.49		03/30/19 13:24	67-64-1	
Benzene	<0.23	ug/m3	0.48	1.49		03/30/19 13:24	71-43-2	
Benzyl chloride	<1.8	ug/m3	3.9	1.49		03/30/19 13:24	100-44-7	
Bromodichloromethane	<0.55	ug/m3	2.0	1.49		03/30/19 13:24	75-27-4	
Bromoform	<2.1	ug/m3	7.8	1.49		03/30/19 13:24	75-25-2	
Bromomethane	<0.34	ug/m3	1.2	1.49		03/30/19 13:24	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.67	1.49		03/30/19 13:24	106-99-0	
2-Butanone (MEK)	<0.55	ug/m3	4.5	1.49		03/30/19 13:24	78-93-3	
Carbon disulfide	0.34J	ug/m3	0.94	1.49		03/30/19 13:24	75-15-0	
Carbon tetrachloride	<0.64	ug/m3	1.9	1.49		03/30/19 13:24	56-23-5	
Chlorobenzene	<0.41	ug/m3	1.4	1.49		03/30/19 13:24	108-90-7	
Chloroethane	<0.39	ug/m3	0.80	1.49		03/30/19 13:24	75-00-3	
Chloroform	2.5	ug/m3	0.74	1.49		03/30/19 13:24	67-66-3	
Chloromethane	0.62J	ug/m3	0.63	1.49		03/30/19 13:24	74-87-3	
Cyclohexane	<0.53	ug/m3	2.6	1.49		03/30/19 13:24	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.6	1.49		03/30/19 13:24	124-48-1	
1,2-Dibromoethane (EDB)	<0.55	ug/m3	1.2	1.49		03/30/19 13:24	106-93-4	
1,2-Dichlorobenzene	<0.74	ug/m3	1.8	1.49		03/30/19 13:24	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/m3	1.8	1.49		03/30/19 13:24	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	4.6	1.49		03/30/19 13:24	106-46-7	
Dichlorodifluoromethane	2.5	ug/m3	1.5	1.49		03/30/19 13:24	75-71-8	
1,1-Dichloroethane	<0.34	ug/m3	1.2	1.49		03/30/19 13:24	75-34-3	
1,2-Dichloroethane	<0.22	ug/m3	0.61	1.49		03/30/19 13:24	107-06-2	
1,1-Dichloroethene	<0.41	ug/m3	1.2	1.49		03/30/19 13:24	75-35-4	
cis-1,2-Dichloroethene	<0.33	ug/m3	1.2	1.49		03/30/19 13:24	156-59-2	
trans-1,2-Dichloroethene	<0.42	ug/m3	1.2	1.49		03/30/19 13:24	156-60-5	
1,2-Dichloropropane	<0.34	ug/m3	1.4	1.49		03/30/19 13:24	78-87-5	
cis-1,3-Dichloropropene	<0.45	ug/m3	1.4	1.49		03/30/19 13:24	10061-01-5	
trans-1,3-Dichloropropene	<0.66	ug/m3	1.4	1.49		03/30/19 13:24	10061-02-6	
Dichlorotetrafluoroethane	<0.65	ug/m3	2.1	1.49		03/30/19 13:24	76-14-2	
Ethanol	9.2	ug/m3	2.9	1.49		03/30/19 13:24	64-17-5	
Ethyl acetate	0.30J	ug/m3	1.1	1.49		03/30/19 13:24	141-78-6	
Ethylbenzene	<0.45	ug/m3	1.3	1.49		03/30/19 13:24	100-41-4	
4-Ethyltoluene	<0.85	ug/m3	3.7	1.49		03/30/19 13:24	622-96-8	
n-Heptane	<0.57	ug/m3	1.2	1.49		03/30/19 13:24	142-82-5	
Hexachloro-1,3-butadiene	<2.9	ug/m3	8.1	1.49		03/30/19 13:24	87-68-3	
n-Hexane	0.65J	ug/m3	1.1	1.49		03/30/19 13:24	110-54-3	
2-Hexanone	<1.1	ug/m3	6.2	1.49		03/30/19 13:24	591-78-6	
Methylene Chloride	<1.4	ug/m3	5.3	1.49		03/30/19 13:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.77	ug/m3	6.2	1.49		03/30/19 13:24	108-10-1	
Methyl-tert-butyl ether	<0.99	ug/m3	5.5	1.49		03/30/19 13:24	1634-04-4	
Naphthalene	<2.0	ug/m3	4.0	1.49		03/30/19 13:24	91-20-3	
2-Propanol	<1.0	ug/m3	3.7	1.49		03/30/19 13:24	67-63-0	
Propylene	<0.21	ug/m3	0.52	1.49		03/30/19 13:24	115-07-1	
Styrene	<0.51	ug/m3	1.3	1.49		03/30/19 13:24	100-42-5	
1,1,2,2-Tetrachloroethane	<0.44	ug/m3	1.0	1.49		03/30/19 13:24	79-34-5	
Tetrachloroethene	<0.47	ug/m3	1.0	1.49		03/30/19 13:24	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LA 496-LA 502
Pace Project No.: 10468767

Sample: LA 502		Lab ID: 10468767001	Collected: 03/28/19 12:05	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Tetrahydrofuran	<0.39	ug/m3	0.89	1.49		03/30/19 13:24	109-99-9	
Toluene	0.78J	ug/m3	1.1	1.49		03/30/19 13:24	108-88-3	
1,2,4-Trichlorobenzene	<5.5	ug/m3	11.2	1.49		03/30/19 13:24	120-82-1	
1,1,1-Trichloroethane	<0.46	ug/m3	1.7	1.49		03/30/19 13:24	71-55-6	
1,1,2-Trichloroethane	<0.37	ug/m3	0.83	1.49		03/30/19 13:24	79-00-5	
Trichloroethene	<0.38	ug/m3	0.81	1.49		03/30/19 13:24	79-01-6	
Trichlorofluoromethane	1.1J	ug/m3	1.7	1.49		03/30/19 13:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.84	ug/m3	2.3	1.49		03/30/19 13:24	76-13-1	
1,2,4-Trimethylbenzene	<0.67	ug/m3	1.5	1.49		03/30/19 13:24	95-63-6	
1,3,5-Trimethylbenzene	<0.59	ug/m3	1.5	1.49		03/30/19 13:24	108-67-8	
Vinyl acetate	<0.40	ug/m3	1.1	1.49		03/30/19 13:24	108-05-4	
Vinyl chloride	<0.19	ug/m3	0.39	1.49		03/30/19 13:24	75-01-4	
m&p-Xylene	<1.0	ug/m3	2.6	1.49		03/30/19 13:24	179601-23-1	
o-Xylene	<0.51	ug/m3	1.3	1.49		03/30/19 13:24	95-47-6	

Sample: LA 502 CERT 1660		Lab ID: 10468767002	Collected: 03/28/19 12:05	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
Acetone	<1.2	ug/m3	2.4	1		03/19/19 13:49	67-64-1	
Benzene	<0.15	ug/m3	0.32	1		03/19/19 13:49	71-43-2	
Benzyl chloride	<1.2	ug/m3	2.6	1		03/19/19 13:49	100-44-7	
Bromodichloromethane	<0.37	ug/m3	1.4	1		03/19/19 13:49	75-27-4	
Bromoform	<1.4	ug/m3	5.2	1		03/19/19 13:49	75-25-2	
Bromomethane	<0.23	ug/m3	0.79	1		03/19/19 13:49	74-83-9	
1,3-Butadiene	<0.13	ug/m3	0.45	1		03/19/19 13:49	106-99-0	
2-Butanone (MEK)	<0.37	ug/m3	3.0	1		03/19/19 13:49	78-93-3	
Carbon disulfide	<0.22	ug/m3	0.63	1		03/19/19 13:49	75-15-0	
Carbon tetrachloride	<0.43	ug/m3	1.3	1		03/19/19 13:49	56-23-5	
Chlorobenzene	<0.28	ug/m3	0.94	1		03/19/19 13:49	108-90-7	
Chloroethane	<0.26	ug/m3	0.54	1		03/19/19 13:49	75-00-3	
Chloroform	<0.20	ug/m3	0.50	1		03/19/19 13:49	67-66-3	
Chloromethane	<0.16	ug/m3	0.42	1		03/19/19 13:49	74-87-3	
Cyclohexane	<0.35	ug/m3	1.8	1		03/19/19 13:49	110-82-7	
Dibromochloromethane	<0.72	ug/m3	1.7	1		03/19/19 13:49	124-48-1	
1,2-Dibromoethane (EDB)	<0.37	ug/m3	0.78	1		03/19/19 13:49	106-93-4	
1,2-Dichlorobenzene	<0.50	ug/m3	1.2	1		03/19/19 13:49	95-50-1	
1,3-Dichlorobenzene	<0.58	ug/m3	1.2	1		03/19/19 13:49	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/m3	3.1	1		03/19/19 13:49	106-46-7	
Dichlorodifluoromethane	<0.29	ug/m3	1.0	1		03/19/19 13:49	75-71-8	
1,1-Dichloroethane	<0.22	ug/m3	0.82	1		03/19/19 13:49	75-34-3	
1,2-Dichloroethane	<0.15	ug/m3	0.41	1		03/19/19 13:49	107-06-2	
1,1-Dichloroethene	<0.27	ug/m3	0.81	1		03/19/19 13:49	75-35-4	
cis-1,2-Dichloroethene	<0.22	ug/m3	0.81	1		03/19/19 13:49	156-59-2	
trans-1,2-Dichloroethene	<0.28	ug/m3	0.81	1		03/19/19 13:49	156-60-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LA 496-LA 502

Pace Project No.: 10468767

Sample: LA 502 CERT 1660	Lab ID: 10468767002	Collected: 03/28/19 12:05	Received: 03/29/19 09:45	Matrix: Air				
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
1,2-Dichloropropane	<0.23	ug/m3	0.94	1		03/19/19 13:49	78-87-5	
cis-1,3-Dichloropropene	<0.30	ug/m3	0.92	1		03/19/19 13:49	10061-01-5	
trans-1,3-Dichloropropene	<0.44	ug/m3	0.92	1		03/19/19 13:49	10061-02-6	
Dichlorotetrafluoroethane	<0.44	ug/m3	1.4	1		03/19/19 13:49	76-14-2	
Ethanol	<0.81	ug/m3	1.9	1		03/19/19 13:49	64-17-5	
Ethyl acetate	<0.19	ug/m3	0.73	1		03/19/19 13:49	141-78-6	
Ethylbenzene	<0.30	ug/m3	0.88	1		03/19/19 13:49	100-41-4	
4-Ethyltoluene	<0.57	ug/m3	2.5	1		03/19/19 13:49	622-96-8	
n-Heptane	<0.38	ug/m3	0.83	1		03/19/19 13:49	142-82-5	
Hexachloro-1,3-butadiene	<2.0	ug/m3	5.4	1		03/19/19 13:49	87-68-3	
n-Hexane	<0.31	ug/m3	0.72	1		03/19/19 13:49	110-54-3	
2-Hexanone	<0.74	ug/m3	4.2	1		03/19/19 13:49	591-78-6	
Methylene Chloride	<0.94	ug/m3	3.5	1		03/19/19 13:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.52	ug/m3	4.2	1		03/19/19 13:49	108-10-1	
Methyl-tert-butyl ether	<0.66	ug/m3	3.7	1		03/19/19 13:49	1634-04-4	
Naphthalene	<1.3	ug/m3	2.7	1		03/19/19 13:49	91-20-3	
2-Propanol	<0.70	ug/m3	2.5	1		03/19/19 13:49	67-63-0	
Propylene	<0.14	ug/m3	0.35	1		03/19/19 13:49	115-07-1	
Styrene	<0.34	ug/m3	0.87	1		03/19/19 13:49	100-42-5	
1,1,2,2-Tetrachloroethane	<0.29	ug/m3	0.70	1		03/19/19 13:49	79-34-5	
Tetrachloroethene	<0.31	ug/m3	0.69	1		03/19/19 13:49	127-18-4	
Tetrahydrofuran	<0.26	ug/m3	0.60	1		03/19/19 13:49	109-99-9	
Toluene	<0.35	ug/m3	0.77	1		03/19/19 13:49	108-88-3	
1,2,4-Trichlorobenzene	<3.7	ug/m3	7.5	1		03/19/19 13:49	120-82-1	
1,1,1-Trichloroethane	<0.31	ug/m3	1.1	1		03/19/19 13:49	71-55-6	
1,1,2-Trichloroethane	<0.25	ug/m3	0.56	1		03/19/19 13:49	79-00-5	
Trichloroethene	<0.26	ug/m3	0.55	1		03/19/19 13:49	79-01-6	
Trichlorofluoromethane	<0.37	ug/m3	1.1	1		03/19/19 13:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.56	ug/m3	1.6	1		03/19/19 13:49	76-13-1	
1,2,4-Trimethylbenzene	<0.45	ug/m3	1.0	1		03/19/19 13:49	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/m3	1.0	1		03/19/19 13:49	108-67-8	
Vinyl acetate	<0.27	ug/m3	0.72	1		03/19/19 13:49	108-05-4	
Vinyl chloride	<0.13	ug/m3	0.26	1		03/19/19 13:49	75-01-4	
m&p-Xylene	<0.70	ug/m3	1.8	1		03/19/19 13:49	179601-23-1	
o-Xylene	<0.34	ug/m3	0.88	1		03/19/19 13:49	95-47-6	

Sample: LA 501	Lab ID: 10468767003	Collected: 03/28/19 12:41	Received: 03/29/19 09:45	Matrix: Air				
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	36.1	ug/m3	3.7	1.55		03/30/19 13:53	67-64-1	
Benzene	32.2	ug/m3	0.50	1.55		03/30/19 13:53	71-43-2	
Benzyl chloride	<1.9	ug/m3	4.1	1.55		03/30/19 13:53	100-44-7	
Bromodichloromethane	42.1	ug/m3	2.1	1.55		03/30/19 13:53	75-27-4	
Bromoform	32.5	ug/m3	8.1	1.55		03/30/19 13:53	75-25-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LA 496-LA 502

Pace Project No.: 10468767

Sample: LA 501	Lab ID: 10468767003	Collected: 03/28/19 12:41	Received: 03/29/19 09:45	Matrix: Air				
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Bromomethane	<0.35	ug/m3	1.2	1.55		03/30/19 13:53	74-83-9	
1,3-Butadiene	<0.20	ug/m3	0.70	1.55		03/30/19 13:53	106-99-0	
2-Butanone (MEK)	3.6J	ug/m3	4.6	1.55		03/30/19 13:53	78-93-3	
Carbon disulfide	2210	ug/m3	58.9	93		03/31/19 19:15	75-15-0	
Carbon tetrachloride	3.8	ug/m3	2.0	1.55		03/30/19 13:53	56-23-5	
Chlorobenzene	<0.43	ug/m3	1.5	1.55		03/30/19 13:53	108-90-7	
Chloroethane	<0.40	ug/m3	0.83	1.55		03/30/19 13:53	75-00-3	
Chloroform	3520	ug/m3	46.1	93		03/31/19 19:15	67-66-3	
Chloromethane	23.3	ug/m3	0.65	1.55		03/30/19 13:53	74-87-3	
Cyclohexane	33.6	ug/m3	2.7	1.55		03/30/19 13:53	110-82-7	
Dibromochloromethane	25.7	ug/m3	2.7	1.55		03/30/19 13:53	124-48-1	
1,2-Dibromoethane (EDB)	<0.57	ug/m3	1.2	1.55		03/30/19 13:53	106-93-4	
1,2-Dichlorobenzene	<0.77	ug/m3	1.9	1.55		03/30/19 13:53	95-50-1	
1,3-Dichlorobenzene	<0.90	ug/m3	1.9	1.55		03/30/19 13:53	541-73-1	
1,4-Dichlorobenzene	2.0J	ug/m3	4.7	1.55		03/30/19 13:53	106-46-7	
Dichlorodifluoromethane	1.7	ug/m3	1.6	1.55		03/30/19 13:53	75-71-8	
1,1-Dichloroethane	4.4	ug/m3	1.3	1.55		03/30/19 13:53	75-34-3	
1,2-Dichloroethane	1.8	ug/m3	0.64	1.55		03/30/19 13:53	107-06-2	
1,1-Dichloroethene	<0.42	ug/m3	1.2	1.55		03/30/19 13:53	75-35-4	
cis-1,2-Dichloroethene	0.52J	ug/m3	1.2	1.55		03/30/19 13:53	156-59-2	
trans-1,2-Dichloroethene	33.1	ug/m3	1.2	1.55		03/30/19 13:53	156-60-5	
1,2-Dichloropropane	<0.36	ug/m3	1.5	1.55		03/30/19 13:53	78-87-5	
cis-1,3-Dichloropropene	<0.47	ug/m3	1.4	1.55		03/30/19 13:53	10061-01-5	
trans-1,3-Dichloropropene	<0.68	ug/m3	1.4	1.55		03/30/19 13:53	10061-02-6	
Dichlorotetrafluoroethane	<0.68	ug/m3	2.2	1.55		03/30/19 13:53	76-14-2	
Ethanol	59.8	ug/m3	3.0	1.55		03/30/19 13:53	64-17-5	
Ethyl acetate	0.54J	ug/m3	1.1	1.55		03/30/19 13:53	141-78-6	
Ethylbenzene	53.9	ug/m3	1.4	1.55		03/30/19 13:53	100-41-4	
4-Ethyltoluene	49.3	ug/m3	3.9	1.55		03/30/19 13:53	622-96-8	
n-Heptane	26.8	ug/m3	1.3	1.55		03/30/19 13:53	142-82-5	
Hexachloro-1,3-butadiene	<3.1	ug/m3	8.4	1.55		03/30/19 13:53	87-68-3	
n-Hexane	33.0	ug/m3	1.1	1.55		03/30/19 13:53	110-54-3	
2-Hexanone	<1.2	ug/m3	6.4	1.55		03/30/19 13:53	591-78-6	
Methylene Chloride	29.6	ug/m3	5.5	1.55		03/30/19 13:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	2.0J	ug/m3	6.4	1.55		03/30/19 13:53	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/m3	5.7	1.55		03/30/19 13:53	1634-04-4	
Naphthalene	2.7J	ug/m3	4.1	1.55		03/30/19 13:53	91-20-3	
2-Propanol	4.9	ug/m3	3.9	1.55		03/30/19 13:53	67-63-0	
Propylene	7.7	ug/m3	0.54	1.55		03/30/19 13:53	115-07-1	
Styrene	<0.53	ug/m3	1.3	1.55		03/30/19 13:53	100-42-5	
1,1,2,2-Tetrachloroethane	<0.45	ug/m3	1.1	1.55		03/30/19 13:53	79-34-5	
Tetrachloroethene	58.3	ug/m3	1.1	1.55		03/30/19 13:53	127-18-4	
Tetrahydrofuran	32.2	ug/m3	0.93	1.55		03/30/19 13:53	109-99-9	
Toluene	659	ug/m3	71.2	93		03/31/19 19:15	108-88-3	
1,2,4-Trichlorobenzene	<5.8	ug/m3	11.7	1.55		03/30/19 13:53	120-82-1	
1,1,1-Trichloroethane	7.5	ug/m3	1.7	1.55		03/30/19 13:53	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/m3	0.86	1.55		03/30/19 13:53	79-00-5	

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ANALYTICAL RESULTS

Project: LA 496-LA 502
Pace Project No.: 10468767

Sample: LA 501		Lab ID: 10468767003	Collected: 03/28/19 12:41	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Trichloroethene	1.4	ug/m3	0.85	1.55		03/30/19 13:53	79-01-6	
Trichlorofluoromethane	1.0J	ug/m3	1.8	1.55		03/30/19 13:53	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.87	ug/m3	2.4	1.55		03/30/19 13:53	76-13-1	
1,2,4-Trimethylbenzene	111	ug/m3	1.5	1.55		03/30/19 13:53	95-63-6	
1,3,5-Trimethylbenzene	52.5	ug/m3	1.5	1.55		03/30/19 13:53	108-67-8	
Vinyl acetate	<0.42	ug/m3	1.1	1.55		03/30/19 13:53	108-05-4	
Vinyl chloride	1.5	ug/m3	0.40	1.55		03/30/19 13:53	75-01-4	
m&p-Xylene	173	ug/m3	2.7	1.55		03/30/19 13:53	179601-23-1	
o-Xylene	79.0	ug/m3	1.4	1.55		03/30/19 13:53	95-47-6	

Sample: LA 501 CERT 0018		Lab ID: 10468767004	Collected: 03/28/19 12:41	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
Acetone	<0.60	ug/m3	1.2	0.5		03/24/19 09:24	67-64-1	
Benzene	<0.076	ug/m3	0.16	0.5		03/24/19 09:24	71-43-2	
Benzyl chloride	<0.60	ug/m3	1.3	0.5		03/24/19 09:24	100-44-7	
Bromodichloromethane	<0.18	ug/m3	0.68	0.5		03/24/19 09:24	75-27-4	
Bromoform	<0.71	ug/m3	2.6	0.5		03/24/19 09:24	75-25-2	
Bromomethane	<0.11	ug/m3	0.39	0.5		03/24/19 09:24	74-83-9	
1,3-Butadiene	<0.064	ug/m3	0.22	0.5		03/24/19 09:24	106-99-0	
2-Butanone (MEK)	<0.18	ug/m3	1.5	0.5		03/24/19 09:24	78-93-3	
Carbon disulfide	<0.11	ug/m3	0.32	0.5		03/24/19 09:24	75-15-0	
Carbon tetrachloride	<0.21	ug/m3	0.64	0.5		03/24/19 09:24	56-23-5	
Chlorobenzene	<0.14	ug/m3	0.47	0.5		03/24/19 09:24	108-90-7	
Chloroethane	<0.13	ug/m3	0.27	0.5		03/24/19 09:24	75-00-3	
Chloroform	<0.098	ug/m3	0.25	0.5		03/24/19 09:24	67-66-3	
Chloromethane	<0.078	ug/m3	0.21	0.5		03/24/19 09:24	74-87-3	
Cyclohexane	<0.18	ug/m3	0.88	0.5		03/24/19 09:24	110-82-7	
Dibromochloromethane	<0.36	ug/m3	0.86	0.5		03/24/19 09:24	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/m3	0.39	0.5		03/24/19 09:24	106-93-4	
1,2-Dichlorobenzene	<0.25	ug/m3	0.61	0.5		03/24/19 09:24	95-50-1	
1,3-Dichlorobenzene	<0.29	ug/m3	0.61	0.5		03/24/19 09:24	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/m3	1.5	0.5		03/24/19 09:24	106-46-7	
Dichlorodifluoromethane	<0.15	ug/m3	0.50	0.5		03/24/19 09:24	75-71-8	
1,1-Dichloroethane	<0.11	ug/m3	0.41	0.5		03/24/19 09:24	75-34-3	
1,2-Dichloroethane	<0.075	ug/m3	0.21	0.5		03/24/19 09:24	107-06-2	
1,1-Dichloroethene	<0.14	ug/m3	0.40	0.5		03/24/19 09:24	75-35-4	
cis-1,2-Dichloroethene	<0.11	ug/m3	0.40	0.5		03/24/19 09:24	156-59-2	
trans-1,2-Dichloroethene	<0.14	ug/m3	0.40	0.5		03/24/19 09:24	156-60-5	
1,2-Dichloropropane	<0.12	ug/m3	0.47	0.5		03/24/19 09:24	78-87-5	
cis-1,3-Dichloropropene	<0.15	ug/m3	0.46	0.5		03/24/19 09:24	10061-01-5	
trans-1,3-Dichloropropene	<0.22	ug/m3	0.46	0.5		03/24/19 09:24	10061-02-6	
Dichlorotetrafluoroethane	<0.22	ug/m3	0.71	0.5		03/24/19 09:24	76-14-2	
Ethanol	<0.41	ug/m3	0.96	0.5		03/24/19 09:24	64-17-5	

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ANALYTICAL RESULTS

Project: LA 496-LA 502

Pace Project No.: 10468767

Sample: LA 501 CERT 0018		Lab ID: 10468767004	Collected: 03/28/19 12:41	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
Ethyl acetate	<0.095	ug/m3	0.37	0.5		03/24/19 09:24	141-78-6	
Ethylbenzene	<0.15	ug/m3	0.44	0.5		03/24/19 09:24	100-41-4	
4-Ethyltoluene	<0.28	ug/m3	1.2	0.5		03/24/19 09:24	622-96-8	
n-Heptane	<0.19	ug/m3	0.42	0.5		03/24/19 09:24	142-82-5	
Hexachloro-1,3-butadiene	<0.98	ug/m3	2.7	0.5		03/24/19 09:24	87-68-3	
n-Hexane	<0.16	ug/m3	0.36	0.5		03/24/19 09:24	110-54-3	
2-Hexanone	<0.37	ug/m3	2.1	0.5		03/24/19 09:24	591-78-6	
Methylene Chloride	<0.47	ug/m3	1.8	0.5		03/24/19 09:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.26	ug/m3	2.1	0.5		03/24/19 09:24	108-10-1	
Methyl-tert-butyl ether	<0.33	ug/m3	1.8	0.5		03/24/19 09:24	1634-04-4	
Naphthalene	<0.66	ug/m3	1.3	0.5		03/24/19 09:24	91-20-3	
2-Propanol	<0.35	ug/m3	1.2	0.5		03/24/19 09:24	67-63-0	
Propylene	<0.072	ug/m3	0.18	0.5		03/24/19 09:24	115-07-1	
Styrene	<0.17	ug/m3	0.43	0.5		03/24/19 09:24	100-42-5	
1,1,2,2-Tetrachloroethane	<0.15	ug/m3	0.35	0.5		03/24/19 09:24	79-34-5	
Tetrachloroethene	<0.16	ug/m3	0.34	0.5		03/24/19 09:24	127-18-4	
Tetrahydrofuran	<0.13	ug/m3	0.30	0.5		03/24/19 09:24	109-99-9	
Toluene	<0.18	ug/m3	0.38	0.5		03/24/19 09:24	108-88-3	
1,2,4-Trichlorobenzene	<1.9	ug/m3	3.8	0.5		03/24/19 09:24	120-82-1	
1,1,1-Trichloroethane	<0.15	ug/m3	0.56	0.5		03/24/19 09:24	71-55-6	
1,1,2-Trichloroethane	<0.12	ug/m3	0.28	0.5		03/24/19 09:24	79-00-5	
Trichloroethene	<0.13	ug/m3	0.27	0.5		03/24/19 09:24	79-01-6	
Trichlorofluoromethane	<0.18	ug/m3	0.57	0.5		03/24/19 09:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.28	ug/m3	0.78	0.5		03/24/19 09:24	76-13-1	
1,2,4-Trimethylbenzene	<0.23	ug/m3	0.50	0.5		03/24/19 09:24	95-63-6	
1,3,5-Trimethylbenzene	<0.20	ug/m3	0.50	0.5		03/24/19 09:24	108-67-8	
Vinyl acetate	<0.14	ug/m3	0.36	0.5		03/24/19 09:24	108-05-4	
Vinyl chloride	<0.063	ug/m3	0.13	0.5		03/24/19 09:24	75-01-4	
m&p-Xylene	<0.35	ug/m3	0.88	0.5		03/24/19 09:24	179601-23-1	
o-Xylene	<0.17	ug/m3	0.44	0.5		03/24/19 09:24	95-47-6	

Sample: LA 499		Lab ID: 10468767005	Collected: 03/28/19 13:07	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	53.6	ug/m3	3.6	1.49		03/30/19 14:22	67-64-1	
Benzene	32.7	ug/m3	0.48	1.49		03/30/19 14:22	71-43-2	
Benzyl chloride	<1.8	ug/m3	3.9	1.49		03/30/19 14:22	100-44-7	
Bromodichloromethane	41.8	ug/m3	2.0	1.49		03/30/19 14:22	75-27-4	
Bromoform	29.8	ug/m3	7.8	1.49		03/30/19 14:22	75-25-2	
Bromomethane	0.48J	ug/m3	1.2	1.49		03/30/19 14:22	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.67	1.49		03/30/19 14:22	106-99-0	
2-Butanone (MEK)	5.8	ug/m3	4.5	1.49		03/30/19 14:22	78-93-3	
Carbon disulfide	2380	ug/m3	56.6	89.4		03/31/19 18:50	75-15-0	
Carbon tetrachloride	4.6	ug/m3	1.9	1.49		03/30/19 14:22	56-23-5	

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ANALYTICAL RESULTS

Project: LA 496-LA 502
Pace Project No.: 10468767

Sample: LA 499	Lab ID: 10468767005	Collected: 03/28/19 13:07	Received: 03/29/19 09:45	Matrix: Air				
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Chlorobenzene	<0.41	ug/m3	1.4	1.49		03/30/19 14:22	108-90-7	
Chloroethane	1.3	ug/m3	0.80	1.49		03/30/19 14:22	75-00-3	
Chloroform	3100	ug/m3	44.3	89.4		03/31/19 18:50	67-66-3	
Chloromethane	23.9	ug/m3	0.63	1.49		03/30/19 14:22	74-87-3	
Cyclohexane	36.1	ug/m3	2.6	1.49		03/30/19 14:22	110-82-7	
Dibromochloromethane	22.6	ug/m3	2.6	1.49		03/30/19 14:22	124-48-1	
1,2-Dibromoethane (EDB)	<0.55	ug/m3	1.2	1.49		03/30/19 14:22	106-93-4	
1,2-Dichlorobenzene	<0.74	ug/m3	1.8	1.49		03/30/19 14:22	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/m3	1.8	1.49		03/30/19 14:22	541-73-1	
1,4-Dichlorobenzene	3.8J	ug/m3	4.6	1.49		03/30/19 14:22	106-46-7	
Dichlorodifluoromethane	1.6	ug/m3	1.5	1.49		03/30/19 14:22	75-71-8	
1,1-Dichloroethane	4.1	ug/m3	1.2	1.49		03/30/19 14:22	75-34-3	
1,2-Dichloroethane	1.8	ug/m3	0.61	1.49		03/30/19 14:22	107-06-2	
1,1-Dichloroethene	<0.41	ug/m3	1.2	1.49		03/30/19 14:22	75-35-4	
cis-1,2-Dichloroethene	0.74J	ug/m3	1.2	1.49		03/30/19 14:22	156-59-2	
trans-1,2-Dichloroethene	38.0	ug/m3	1.2	1.49		03/30/19 14:22	156-60-5	
1,2-Dichloropropane	<0.34	ug/m3	1.4	1.49		03/30/19 14:22	78-87-5	
cis-1,3-Dichloropropene	<0.45	ug/m3	1.4	1.49		03/30/19 14:22	10061-01-5	
trans-1,3-Dichloropropene	<0.66	ug/m3	1.4	1.49		03/30/19 14:22	10061-02-6	
Dichlorotetrafluoroethane	<0.65	ug/m3	2.1	1.49		03/30/19 14:22	76-14-2	
Ethanol	89.3	ug/m3	2.9	1.49		03/30/19 14:22	64-17-5	
Ethyl acetate	0.43J	ug/m3	1.1	1.49		03/30/19 14:22	141-78-6	
Ethylbenzene	61.6	ug/m3	1.3	1.49		03/30/19 14:22	100-41-4	
4-Ethyltoluene	62.5	ug/m3	3.7	1.49		03/30/19 14:22	622-96-8	
n-Heptane	30.6	ug/m3	1.2	1.49		03/30/19 14:22	142-82-5	
Hexachloro-1,3-butadiene	<2.9	ug/m3	8.1	1.49		03/30/19 14:22	87-68-3	
n-Hexane	34.7	ug/m3	1.1	1.49		03/30/19 14:22	110-54-3	
2-Hexanone	<1.1	ug/m3	6.2	1.49		03/30/19 14:22	591-78-6	
Methylene Chloride	30.5	ug/m3	5.3	1.49		03/30/19 14:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	2.7J	ug/m3	6.2	1.49		03/30/19 14:22	108-10-1	
Methyl-tert-butyl ether	<0.99	ug/m3	5.5	1.49		03/30/19 14:22	1634-04-4	
Naphthalene	4.2	ug/m3	4.0	1.49		03/30/19 14:22	91-20-3	
2-Propanol	5.3	ug/m3	3.7	1.49		03/30/19 14:22	67-63-0	
Propylene	6.1	ug/m3	0.52	1.49		03/30/19 14:22	115-07-1	
Styrene	1.3	ug/m3	1.3	1.49		03/30/19 14:22	100-42-5	
1,1,2,2-Tetrachloroethane	<0.44	ug/m3	1.0	1.49		03/30/19 14:22	79-34-5	
Tetrachloroethene	61.8	ug/m3	1.0	1.49		03/30/19 14:22	127-18-4	
Tetrahydrofuran	34.1	ug/m3	0.89	1.49		03/30/19 14:22	109-99-9	
Toluene	726	ug/m3	68.5	89.4		03/31/19 18:50	108-88-3	
1,2,4-Trichlorobenzene	<5.5	ug/m3	11.2	1.49		03/30/19 14:22	120-82-1	
1,1,1-Trichloroethane	7.3	ug/m3	1.7	1.49		03/30/19 14:22	71-55-6	
1,1,2-Trichloroethane	<0.37	ug/m3	0.83	1.49		03/30/19 14:22	79-00-5	
Trichloroethene	1.4	ug/m3	0.81	1.49		03/30/19 14:22	79-01-6	
Trichlorofluoromethane	1.0J	ug/m3	1.7	1.49		03/30/19 14:22	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.84	ug/m3	2.3	1.49		03/30/19 14:22	76-13-1	
1,2,4-Trimethylbenzene	159	ug/m3	1.5	1.49		03/30/19 14:22	95-63-6	
1,3,5-Trimethylbenzene	68.6	ug/m3	1.5	1.49		03/30/19 14:22	108-67-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LA 496-LA 502
Pace Project No.: 10468767

Sample: LA 499		Lab ID: 10468767005	Collected: 03/28/19 13:07	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Vinyl acetate	<0.40	ug/m3	1.1	1.49		03/30/19 14:22	108-05-4	
Vinyl chloride	1.5	ug/m3	0.39	1.49		03/30/19 14:22	75-01-4	
m&p-Xylene	213	ug/m3	2.6	1.49		03/30/19 14:22	179601-23-1	
o-Xylene	93.2	ug/m3	1.3	1.49		03/30/19 14:22	95-47-6	

Sample: LA 499 CERT 3347		Lab ID: 10468767006	Collected: 03/28/19 13:07	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
Acetone	<0.60	ug/m3	1.2	0.5		03/23/19 14:00	67-64-1	
Benzene	<0.076	ug/m3	0.16	0.5		03/23/19 14:00	71-43-2	
Benzyl chloride	<0.60	ug/m3	1.3	0.5		03/23/19 14:00	100-44-7	
Bromodichloromethane	<0.18	ug/m3	0.68	0.5		03/23/19 14:00	75-27-4	
Bromoform	<0.71	ug/m3	2.6	0.5		03/23/19 14:00	75-25-2	
Bromomethane	<0.11	ug/m3	0.39	0.5		03/23/19 14:00	74-83-9	
1,3-Butadiene	<0.064	ug/m3	0.22	0.5		03/23/19 14:00	106-99-0	
2-Butanone (MEK)	<0.18	ug/m3	1.5	0.5		03/23/19 14:00	78-93-3	
Carbon disulfide	<0.11	ug/m3	0.32	0.5		03/23/19 14:00	75-15-0	
Carbon tetrachloride	<0.21	ug/m3	0.64	0.5		03/23/19 14:00	56-23-5	
Chlorobenzene	<0.14	ug/m3	0.47	0.5		03/23/19 14:00	108-90-7	
Chloroethane	<0.13	ug/m3	0.27	0.5		03/23/19 14:00	75-00-3	
Chloroform	<0.098	ug/m3	0.25	0.5		03/23/19 14:00	67-66-3	
Chloromethane	<0.078	ug/m3	0.21	0.5		03/23/19 14:00	74-87-3	
Cyclohexane	<0.18	ug/m3	0.88	0.5		03/23/19 14:00	110-82-7	
Dibromochloromethane	<0.36	ug/m3	0.86	0.5		03/23/19 14:00	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/m3	0.39	0.5		03/23/19 14:00	106-93-4	
1,2-Dichlorobenzene	<0.25	ug/m3	0.61	0.5		03/23/19 14:00	95-50-1	
1,3-Dichlorobenzene	<0.29	ug/m3	0.61	0.5		03/23/19 14:00	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/m3	1.5	0.5		03/23/19 14:00	106-46-7	
Dichlorodifluoromethane	<0.15	ug/m3	0.50	0.5		03/23/19 14:00	75-71-8	
1,1-Dichloroethane	<0.11	ug/m3	0.41	0.5		03/23/19 14:00	75-34-3	
1,2-Dichloroethane	<0.075	ug/m3	0.21	0.5		03/23/19 14:00	107-06-2	
1,1-Dichloroethene	<0.14	ug/m3	0.40	0.5		03/23/19 14:00	75-35-4	
cis-1,2-Dichloroethene	<0.11	ug/m3	0.40	0.5		03/23/19 14:00	156-59-2	
trans-1,2-Dichloroethene	<0.14	ug/m3	0.40	0.5		03/23/19 14:00	156-60-5	
1,2-Dichloropropane	<0.12	ug/m3	0.47	0.5		03/23/19 14:00	78-87-5	
cis-1,3-Dichloropropene	<0.15	ug/m3	0.46	0.5		03/23/19 14:00	10061-01-5	
trans-1,3-Dichloropropene	<0.22	ug/m3	0.46	0.5		03/23/19 14:00	10061-02-6	
Dichlorotetrafluoroethane	<0.22	ug/m3	0.71	0.5		03/23/19 14:00	76-14-2	
Ethanol	<0.41	ug/m3	0.96	0.5		03/23/19 14:00	64-17-5	
Ethyl acetate	<0.095	ug/m3	0.37	0.5		03/23/19 14:00	141-78-6	
Ethylbenzene	<0.15	ug/m3	0.44	0.5		03/23/19 14:00	100-41-4	
4-Ethyltoluene	<0.28	ug/m3	1.2	0.5		03/23/19 14:00	622-96-8	
n-Heptane	<0.19	ug/m3	0.42	0.5		03/23/19 14:00	142-82-5	
Hexachloro-1,3-butadiene	<0.98	ug/m3	2.7	0.5		03/23/19 14:00	87-68-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LA 496-LA 502

Pace Project No.: 10468767

Sample: LA 499 CERT 3347		Lab ID: 10468767006	Collected: 03/28/19 13:07	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
n-Hexane	<0.16	ug/m3	0.36	0.5		03/23/19 14:00	110-54-3	
2-Hexanone	<0.37	ug/m3	2.1	0.5		03/23/19 14:00	591-78-6	
Methylene Chloride	<0.47	ug/m3	1.8	0.5		03/23/19 14:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.26	ug/m3	2.1	0.5		03/23/19 14:00	108-10-1	
Methyl-tert-butyl ether	<0.33	ug/m3	1.8	0.5		03/23/19 14:00	1634-04-4	
Naphthalene	<0.66	ug/m3	1.3	0.5		03/23/19 14:00	91-20-3	
2-Propanol	<0.35	ug/m3	1.2	0.5		03/23/19 14:00	67-63-0	
Propylene	<0.072	ug/m3	0.18	0.5		03/23/19 14:00	115-07-1	
Styrene	<0.17	ug/m3	0.43	0.5		03/23/19 14:00	100-42-5	
1,1,2,2-Tetrachloroethane	<0.15	ug/m3	0.35	0.5		03/23/19 14:00	79-34-5	
Tetrachloroethene	<0.16	ug/m3	0.34	0.5		03/23/19 14:00	127-18-4	
Tetrahydrofuran	<0.13	ug/m3	0.30	0.5		03/23/19 14:00	109-99-9	
Toluene	<0.18	ug/m3	0.38	0.5		03/23/19 14:00	108-88-3	
1,2,4-Trichlorobenzene	<1.9	ug/m3	3.8	0.5		03/23/19 14:00	120-82-1	
1,1,1-Trichloroethane	<0.15	ug/m3	0.56	0.5		03/23/19 14:00	71-55-6	
1,1,2-Trichloroethane	<0.12	ug/m3	0.28	0.5		03/23/19 14:00	79-00-5	
Trichloroethene	<0.13	ug/m3	0.27	0.5		03/23/19 14:00	79-01-6	
Trichlorofluoromethane	<0.18	ug/m3	0.57	0.5		03/23/19 14:00	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.28	ug/m3	0.78	0.5		03/23/19 14:00	76-13-1	
1,2,4-Trimethylbenzene	<0.23	ug/m3	0.50	0.5		03/23/19 14:00	95-63-6	
1,3,5-Trimethylbenzene	<0.20	ug/m3	0.50	0.5		03/23/19 14:00	108-67-8	
Vinyl acetate	<0.14	ug/m3	0.36	0.5		03/23/19 14:00	108-05-4	
Vinyl chloride	<0.063	ug/m3	0.13	0.5		03/23/19 14:00	75-01-4	
m&p-Xylene	<0.35	ug/m3	0.88	0.5		03/23/19 14:00	179601-23-1	
o-Xylene	<0.17	ug/m3	0.44	0.5		03/23/19 14:00	95-47-6	

Sample: LA 498		Lab ID: 10468767007	Collected: 03/28/19 13:22	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	14.4	ug/m3	3.6	1.49		03/30/19 14:51	67-64-1	
Benzene	0.27J	ug/m3	0.48	1.49		03/30/19 14:51	71-43-2	
Benzyl chloride	<1.8	ug/m3	3.9	1.49		03/30/19 14:51	100-44-7	
Bromodichloromethane	1.8J	ug/m3	2.0	1.49		03/30/19 14:51	75-27-4	
Bromoform	4.8J	ug/m3	7.8	1.49		03/30/19 14:51	75-25-2	
Bromomethane	<0.34	ug/m3	1.2	1.49		03/30/19 14:51	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.67	1.49		03/30/19 14:51	106-99-0	
2-Butanone (MEK)	0.59J	ug/m3	4.5	1.49		03/30/19 14:51	78-93-3	
Carbon disulfide	8.2	ug/m3	0.94	1.49		03/30/19 14:51	75-15-0	
Carbon tetrachloride	<0.64	ug/m3	1.9	1.49		03/30/19 14:51	56-23-5	
Chlorobenzene	<0.41	ug/m3	1.4	1.49		03/30/19 14:51	108-90-7	
Chloroethane	<0.39	ug/m3	0.80	1.49		03/30/19 14:51	75-00-3	
Chloroform	20.3	ug/m3	0.74	1.49		03/30/19 14:51	67-66-3	
Chloromethane	0.53J	ug/m3	0.63	1.49		03/30/19 14:51	74-87-3	
Cyclohexane	<0.53	ug/m3	2.6	1.49		03/30/19 14:51	110-82-7	

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ANALYTICAL RESULTS

Project: LA 496-LA 502
Pace Project No.: 10468767

Sample: LA 498	Lab ID: 10468767007	Collected: 03/28/19 13:22	Received: 03/29/19 09:45	Matrix: Air				
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Dibromochloromethane	<1.1	ug/m3	2.6	1.49		03/30/19 14:51	124-48-1	
1,2-Dibromoethane (EDB)	<0.55	ug/m3	1.2	1.49		03/30/19 14:51	106-93-4	
1,2-Dichlorobenzene	<0.74	ug/m3	1.8	1.49		03/30/19 14:51	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/m3	1.8	1.49		03/30/19 14:51	541-73-1	
1,4-Dichlorobenzene	1.9J	ug/m3	4.6	1.49		03/30/19 14:51	106-46-7	
Dichlorodifluoromethane	2.0	ug/m3	1.5	1.49		03/30/19 14:51	75-71-8	
1,1-Dichloroethane	<0.34	ug/m3	1.2	1.49		03/30/19 14:51	75-34-3	
1,2-Dichloroethane	<0.22	ug/m3	0.61	1.49		03/30/19 14:51	107-06-2	
1,1-Dichloroethene	<0.41	ug/m3	1.2	1.49		03/30/19 14:51	75-35-4	
cis-1,2-Dichloroethene	<0.33	ug/m3	1.2	1.49		03/30/19 14:51	156-59-2	
trans-1,2-Dichloroethene	<0.42	ug/m3	1.2	1.49		03/30/19 14:51	156-60-5	
1,2-Dichloropropane	<0.34	ug/m3	1.4	1.49		03/30/19 14:51	78-87-5	
cis-1,3-Dichloropropene	<0.45	ug/m3	1.4	1.49		03/30/19 14:51	10061-01-5	
trans-1,3-Dichloropropene	<0.66	ug/m3	1.4	1.49		03/30/19 14:51	10061-02-6	
Dichlorotetrafluoroethane	<0.65	ug/m3	2.1	1.49		03/30/19 14:51	76-14-2	
Ethanol	1.8J	ug/m3	2.9	1.49		03/30/19 14:51	64-17-5	
Ethyl acetate	0.92J	ug/m3	1.1	1.49		03/30/19 14:51	141-78-6	
Ethylbenzene	<0.45	ug/m3	1.3	1.49		03/30/19 14:51	100-41-4	
4-Ethyltoluene	<0.85	ug/m3	3.7	1.49		03/30/19 14:51	622-96-8	
n-Heptane	<0.57	ug/m3	1.2	1.49		03/30/19 14:51	142-82-5	
Hexachloro-1,3-butadiene	<2.9	ug/m3	8.1	1.49		03/30/19 14:51	87-68-3	
n-Hexane	0.75J	ug/m3	1.1	1.49		03/30/19 14:51	110-54-3	
2-Hexanone	<1.1	ug/m3	6.2	1.49		03/30/19 14:51	591-78-6	
Methylene Chloride	3.6J	ug/m3	5.3	1.49		03/30/19 14:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.77	ug/m3	6.2	1.49		03/30/19 14:51	108-10-1	
Methyl-tert-butyl ether	<0.99	ug/m3	5.5	1.49		03/30/19 14:51	1634-04-4	
Naphthalene	<2.0	ug/m3	4.0	1.49		03/30/19 14:51	91-20-3	
2-Propanol	1.5J	ug/m3	3.7	1.49		03/30/19 14:51	67-63-0	
Propylene	<0.21	ug/m3	0.52	1.49		03/30/19 14:51	115-07-1	
Styrene	<0.51	ug/m3	1.3	1.49		03/30/19 14:51	100-42-5	
1,1,2,2-Tetrachloroethane	<0.44	ug/m3	1.0	1.49		03/30/19 14:51	79-34-5	
Tetrachloroethene	1.2	ug/m3	1.0	1.49		03/30/19 14:51	127-18-4	
Tetrahydrofuran	0.54J	ug/m3	0.89	1.49		03/30/19 14:51	109-99-9	
Toluene	2.5	ug/m3	1.1	1.49		03/30/19 14:51	108-88-3	
1,2,4-Trichlorobenzene	<5.5	ug/m3	11.2	1.49		03/30/19 14:51	120-82-1	
1,1,1-Trichloroethane	<0.46	ug/m3	1.7	1.49		03/30/19 14:51	71-55-6	
1,1,2-Trichloroethane	<0.37	ug/m3	0.83	1.49		03/30/19 14:51	79-00-5	
Trichloroethene	<0.38	ug/m3	0.81	1.49		03/30/19 14:51	79-01-6	
Trichlorofluoromethane	1.4J	ug/m3	1.7	1.49		03/30/19 14:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.84	ug/m3	2.3	1.49		03/30/19 14:51	76-13-1	
1,2,4-Trimethylbenzene	<0.67	ug/m3	1.5	1.49		03/30/19 14:51	95-63-6	
1,3,5-Trimethylbenzene	<0.59	ug/m3	1.5	1.49		03/30/19 14:51	108-67-8	
Vinyl acetate	<0.40	ug/m3	1.1	1.49		03/30/19 14:51	108-05-4	
Vinyl chloride	<0.19	ug/m3	0.39	1.49		03/30/19 14:51	75-01-4	
m&p-Xylene	1.4J	ug/m3	2.6	1.49		03/30/19 14:51	179601-23-1	
o-Xylene	0.71J	ug/m3	1.3	1.49		03/30/19 14:51	95-47-6	

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ANALYTICAL RESULTS

Project: LA 496-LA 502

Pace Project No.: 10468767

Sample: LA 498 CERT 2178	Lab ID: 10468767008	Collected: 03/28/19 13:22	Received: 03/29/19 09:45	Matrix: Air				
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
Acetone	<0.60	ug/m3	1.2	0.5		03/23/19 13:31	67-64-1	
Benzene	<0.076	ug/m3	0.16	0.5		03/23/19 13:31	71-43-2	
Benzyl chloride	<0.60	ug/m3	1.3	0.5		03/23/19 13:31	100-44-7	
Bromodichloromethane	<0.18	ug/m3	0.68	0.5		03/23/19 13:31	75-27-4	
Bromoform	<0.71	ug/m3	2.6	0.5		03/23/19 13:31	75-25-2	
Bromomethane	<0.11	ug/m3	0.39	0.5		03/23/19 13:31	74-83-9	
1,3-Butadiene	<0.064	ug/m3	0.22	0.5		03/23/19 13:31	106-99-0	
2-Butanone (MEK)	<0.18	ug/m3	1.5	0.5		03/23/19 13:31	78-93-3	
Carbon disulfide	<0.11	ug/m3	0.32	0.5		03/23/19 13:31	75-15-0	
Carbon tetrachloride	<0.21	ug/m3	0.64	0.5		03/23/19 13:31	56-23-5	
Chlorobenzene	<0.14	ug/m3	0.47	0.5		03/23/19 13:31	108-90-7	
Chloroethane	<0.13	ug/m3	0.27	0.5		03/23/19 13:31	75-00-3	
Chloroform	<0.098	ug/m3	0.25	0.5		03/23/19 13:31	67-66-3	
Chloromethane	<0.078	ug/m3	0.21	0.5		03/23/19 13:31	74-87-3	
Cyclohexane	<0.18	ug/m3	0.88	0.5		03/23/19 13:31	110-82-7	
Dibromochloromethane	<0.36	ug/m3	0.86	0.5		03/23/19 13:31	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/m3	0.39	0.5		03/23/19 13:31	106-93-4	
1,2-Dichlorobenzene	<0.25	ug/m3	0.61	0.5		03/23/19 13:31	95-50-1	
1,3-Dichlorobenzene	<0.29	ug/m3	0.61	0.5		03/23/19 13:31	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/m3	1.5	0.5		03/23/19 13:31	106-46-7	
Dichlorodifluoromethane	<0.15	ug/m3	0.50	0.5		03/23/19 13:31	75-71-8	
1,1-Dichloroethane	<0.11	ug/m3	0.41	0.5		03/23/19 13:31	75-34-3	
1,2-Dichloroethane	<0.075	ug/m3	0.21	0.5		03/23/19 13:31	107-06-2	
1,1-Dichloroethene	<0.14	ug/m3	0.40	0.5		03/23/19 13:31	75-35-4	
cis-1,2-Dichloroethene	<0.11	ug/m3	0.40	0.5		03/23/19 13:31	156-59-2	
trans-1,2-Dichloroethene	<0.14	ug/m3	0.40	0.5		03/23/19 13:31	156-60-5	
1,2-Dichloropropane	<0.12	ug/m3	0.47	0.5		03/23/19 13:31	78-87-5	
cis-1,3-Dichloropropene	<0.15	ug/m3	0.46	0.5		03/23/19 13:31	10061-01-5	
trans-1,3-Dichloropropene	<0.22	ug/m3	0.46	0.5		03/23/19 13:31	10061-02-6	
Dichlorotetrafluoroethane	<0.22	ug/m3	0.71	0.5		03/23/19 13:31	76-14-2	
Ethanol	<0.41	ug/m3	0.96	0.5		03/23/19 13:31	64-17-5	
Ethyl acetate	<0.095	ug/m3	0.37	0.5		03/23/19 13:31	141-78-6	
Ethylbenzene	<0.15	ug/m3	0.44	0.5		03/23/19 13:31	100-41-4	
4-Ethyltoluene	<0.28	ug/m3	1.2	0.5		03/23/19 13:31	622-96-8	
n-Heptane	<0.19	ug/m3	0.42	0.5		03/23/19 13:31	142-82-5	
Hexachloro-1,3-butadiene	<0.98	ug/m3	2.7	0.5		03/23/19 13:31	87-68-3	
n-Hexane	<0.16	ug/m3	0.36	0.5		03/23/19 13:31	110-54-3	
2-Hexanone	<0.37	ug/m3	2.1	0.5		03/23/19 13:31	591-78-6	
Methylene Chloride	<0.47	ug/m3	1.8	0.5		03/23/19 13:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.26	ug/m3	2.1	0.5		03/23/19 13:31	108-10-1	
Methyl-tert-butyl ether	<0.33	ug/m3	1.8	0.5		03/23/19 13:31	1634-04-4	
Naphthalene	<0.66	ug/m3	1.3	0.5		03/23/19 13:31	91-20-3	
2-Propanol	<0.35	ug/m3	1.2	0.5		03/23/19 13:31	67-63-0	
Propylene	<0.072	ug/m3	0.18	0.5		03/23/19 13:31	115-07-1	
Styrene	<0.17	ug/m3	0.43	0.5		03/23/19 13:31	100-42-5	
1,1,2,2-Tetrachloroethane	<0.15	ug/m3	0.35	0.5		03/23/19 13:31	79-34-5	
Tetrachloroethene	<0.16	ug/m3	0.34	0.5		03/23/19 13:31	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LA 496-LA 502

Pace Project No.: 10468767

Sample: LA 498 CERT 2178		Lab ID: 10468767008	Collected: 03/28/19 13:22	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
Tetrahydrofuran	<0.13	ug/m3	0.30	0.5		03/23/19 13:31	109-99-9	
Toluene	<0.18	ug/m3	0.38	0.5		03/23/19 13:31	108-88-3	
1,2,4-Trichlorobenzene	<1.9	ug/m3	3.8	0.5		03/23/19 13:31	120-82-1	
1,1,1-Trichloroethane	<0.15	ug/m3	0.56	0.5		03/23/19 13:31	71-55-6	
1,1,2-Trichloroethane	<0.12	ug/m3	0.28	0.5		03/23/19 13:31	79-00-5	
Trichloroethene	<0.13	ug/m3	0.27	0.5		03/23/19 13:31	79-01-6	
Trichlorofluoromethane	<0.18	ug/m3	0.57	0.5		03/23/19 13:31	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.28	ug/m3	0.78	0.5		03/23/19 13:31	76-13-1	
1,2,4-Trimethylbenzene	<0.23	ug/m3	0.50	0.5		03/23/19 13:31	95-63-6	
1,3,5-Trimethylbenzene	<0.20	ug/m3	0.50	0.5		03/23/19 13:31	108-67-8	
Vinyl acetate	<0.14	ug/m3	0.36	0.5		03/23/19 13:31	108-05-4	
Vinyl chloride	<0.063	ug/m3	0.13	0.5		03/23/19 13:31	75-01-4	
m&p-Xylene	<0.35	ug/m3	0.88	0.5		03/23/19 13:31	179601-23-1	
o-Xylene	<0.17	ug/m3	0.44	0.5		03/23/19 13:31	95-47-6	

Sample: LA 497		Lab ID: 10468767009	Collected: 03/28/19 13:48	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	40.8	ug/m3	3.6	1.49		03/30/19 15:19	67-64-1	
Benzene	8.2	ug/m3	0.48	1.49		03/30/19 15:19	71-43-2	
Benzyl chloride	<1.8	ug/m3	3.9	1.49		03/30/19 15:19	100-44-7	
Bromodichloromethane	16.6	ug/m3	2.0	1.49		03/30/19 15:19	75-27-4	
Bromoform	15.8	ug/m3	7.8	1.49		03/30/19 15:19	75-25-2	
Bromomethane	<0.34	ug/m3	1.2	1.49		03/30/19 15:19	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.67	1.49		03/30/19 15:19	106-99-0	
2-Butanone (MEK)	3.3J	ug/m3	4.5	1.49		03/30/19 15:19	78-93-3	
Carbon disulfide	113	ug/m3	0.94	1.49		03/30/19 15:19	75-15-0	
Carbon tetrachloride	0.81J	ug/m3	1.9	1.49		03/30/19 15:19	56-23-5	
Chlorobenzene	<0.41	ug/m3	1.4	1.49		03/30/19 15:19	108-90-7	
Chloroethane	<0.39	ug/m3	0.80	1.49		03/30/19 15:19	75-00-3	
Chloroform	903	ug/m3	22.2	44.7		03/31/19 18:25	67-66-3	
Chloromethane	5.2	ug/m3	0.63	1.49		03/30/19 15:19	74-87-3	
Cyclohexane	4.9	ug/m3	2.6	1.49		03/30/19 15:19	110-82-7	
Dibromochloromethane	10.9	ug/m3	2.6	1.49		03/30/19 15:19	124-48-1	
1,2-Dibromoethane (EDB)	<0.55	ug/m3	1.2	1.49		03/30/19 15:19	106-93-4	
1,2-Dichlorobenzene	<0.74	ug/m3	1.8	1.49		03/30/19 15:19	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/m3	1.8	1.49		03/30/19 15:19	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	4.6	1.49		03/30/19 15:19	106-46-7	
Dichlorodifluoromethane	2.0	ug/m3	1.5	1.49		03/30/19 15:19	75-71-8	
1,1-Dichloroethane	1.1J	ug/m3	1.2	1.49		03/30/19 15:19	75-34-3	
1,2-Dichloroethane	0.63	ug/m3	0.61	1.49		03/30/19 15:19	107-06-2	
1,1-Dichloroethene	<0.41	ug/m3	1.2	1.49		03/30/19 15:19	75-35-4	
cis-1,2-Dichloroethene	<0.33	ug/m3	1.2	1.49		03/30/19 15:19	156-59-2	
trans-1,2-Dichloroethene	5.7	ug/m3	1.2	1.49		03/30/19 15:19	156-60-5	

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ANALYTICAL RESULTS

Project: LA 496-LA 502
Pace Project No.: 10468767

Sample: LA 497	Lab ID: 10468767009	Collected: 03/28/19 13:48	Received: 03/29/19 09:45	Matrix: Air				
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
1,2-Dichloropropane	<0.34	ug/m3	1.4	1.49		03/30/19 15:19	78-87-5	
cis-1,3-Dichloropropene	<0.45	ug/m3	1.4	1.49		03/30/19 15:19	10061-01-5	
trans-1,3-Dichloropropene	<0.66	ug/m3	1.4	1.49		03/30/19 15:19	10061-02-6	
Dichlorotetrafluoroethane	<0.65	ug/m3	2.1	1.49		03/30/19 15:19	76-14-2	
Ethanol	80.0	ug/m3	2.9	1.49		03/30/19 15:19	64-17-5	
Ethyl acetate	1.5	ug/m3	1.1	1.49		03/30/19 15:19	141-78-6	
Ethylbenzene	9.5	ug/m3	1.3	1.49		03/30/19 15:19	100-41-4	
4-Ethyltoluene	5.2	ug/m3	3.7	1.49		03/30/19 15:19	622-96-8	
n-Heptane	2.2	ug/m3	1.2	1.49		03/30/19 15:19	142-82-5	
Hexachloro-1,3-butadiene	<2.9	ug/m3	8.1	1.49		03/30/19 15:19	87-68-3	
n-Hexane	4.9	ug/m3	1.1	1.49		03/30/19 15:19	110-54-3	
2-Hexanone	<1.1	ug/m3	6.2	1.49		03/30/19 15:19	591-78-6	
Methylene Chloride	18.6	ug/m3	5.3	1.49		03/30/19 15:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	1.6J	ug/m3	6.2	1.49		03/30/19 15:19	108-10-1	
Methyl-tert-butyl ether	<0.99	ug/m3	5.5	1.49		03/30/19 15:19	1634-04-4	
Naphthalene	<2.0	ug/m3	4.0	1.49		03/30/19 15:19	91-20-3	
2-Propanol	26.3	ug/m3	3.7	1.49		03/30/19 15:19	67-63-0	
Propylene	<0.21	ug/m3	0.52	1.49		03/30/19 15:19	115-07-1	
Styrene	<0.51	ug/m3	1.3	1.49		03/30/19 15:19	100-42-5	
1,1,2,2-Tetrachloroethane	<0.44	ug/m3	1.0	1.49		03/30/19 15:19	79-34-5	
Tetrachloroethene	8.5	ug/m3	1.0	1.49		03/30/19 15:19	127-18-4	
Tetrahydrofuran	11.7	ug/m3	0.89	1.49		03/30/19 15:19	109-99-9	
Toluene	51.2	ug/m3	1.1	1.49		03/30/19 15:19	108-88-3	
1,2,4-Trichlorobenzene	<5.5	ug/m3	11.2	1.49		03/30/19 15:19	120-82-1	
1,1,1-Trichloroethane	1.2J	ug/m3	1.7	1.49		03/30/19 15:19	71-55-6	
1,1,2-Trichloroethane	<0.37	ug/m3	0.83	1.49		03/30/19 15:19	79-00-5	
Trichloroethene	0.39J	ug/m3	0.81	1.49		03/30/19 15:19	79-01-6	
Trichlorofluoromethane	1.2J	ug/m3	1.7	1.49		03/30/19 15:19	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.84	ug/m3	2.3	1.49		03/30/19 15:19	76-13-1	
1,2,4-Trimethylbenzene	16.5	ug/m3	1.5	1.49		03/30/19 15:19	95-63-6	
1,3,5-Trimethylbenzene	7.6	ug/m3	1.5	1.49		03/30/19 15:19	108-67-8	
Vinyl acetate	<0.40	ug/m3	1.1	1.49		03/30/19 15:19	108-05-4	
Vinyl chloride	0.31J	ug/m3	0.39	1.49		03/30/19 15:19	75-01-4	
m&p-Xylene	29.1	ug/m3	2.6	1.49		03/30/19 15:19	179601-23-1	
o-Xylene	15.4	ug/m3	1.3	1.49		03/30/19 15:19	95-47-6	

Sample: LA 497 CERT 2811	Lab ID: 10468767010	Collected: 03/28/19 13:48	Received: 03/29/19 09:45	Matrix: Air				
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
Acetone	<0.60	ug/m3	1.2	0.5		03/24/19 09:57	67-64-1	
Benzene	<0.076	ug/m3	0.16	0.5		03/24/19 09:57	71-43-2	
Benzyl chloride	<0.60	ug/m3	1.3	0.5		03/24/19 09:57	100-44-7	
Bromodichloromethane	<0.18	ug/m3	0.68	0.5		03/24/19 09:57	75-27-4	
Bromoform	<0.71	ug/m3	2.6	0.5		03/24/19 09:57	75-25-2	

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ANALYTICAL RESULTS

Project: LA 496-LA 502

Pace Project No.: 10468767

Sample: LA 497 CERT 2811	Lab ID: 10468767010	Collected: 03/28/19 13:48	Received: 03/29/19 09:45	Matrix: Air				
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
Bromomethane	<0.11	ug/m3	0.39	0.5		03/24/19 09:57	74-83-9	
1,3-Butadiene	<0.064	ug/m3	0.22	0.5		03/24/19 09:57	106-99-0	
2-Butanone (MEK)	<0.18	ug/m3	1.5	0.5		03/24/19 09:57	78-93-3	
Carbon disulfide	<0.11	ug/m3	0.32	0.5		03/24/19 09:57	75-15-0	
Carbon tetrachloride	<0.21	ug/m3	0.64	0.5		03/24/19 09:57	56-23-5	
Chlorobenzene	<0.14	ug/m3	0.47	0.5		03/24/19 09:57	108-90-7	
Chloroethane	<0.13	ug/m3	0.27	0.5		03/24/19 09:57	75-00-3	
Chloroform	<0.098	ug/m3	0.25	0.5		03/24/19 09:57	67-66-3	
Chloromethane	<0.078	ug/m3	0.21	0.5		03/24/19 09:57	74-87-3	
Cyclohexane	<0.18	ug/m3	0.88	0.5		03/24/19 09:57	110-82-7	
Dibromochloromethane	<0.36	ug/m3	0.86	0.5		03/24/19 09:57	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/m3	0.39	0.5		03/24/19 09:57	106-93-4	
1,2-Dichlorobenzene	<0.25	ug/m3	0.61	0.5		03/24/19 09:57	95-50-1	
1,3-Dichlorobenzene	<0.29	ug/m3	0.61	0.5		03/24/19 09:57	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/m3	1.5	0.5		03/24/19 09:57	106-46-7	
Dichlorodifluoromethane	<0.15	ug/m3	0.50	0.5		03/24/19 09:57	75-71-8	
1,1-Dichloroethane	<0.11	ug/m3	0.41	0.5		03/24/19 09:57	75-34-3	
1,2-Dichloroethane	<0.075	ug/m3	0.21	0.5		03/24/19 09:57	107-06-2	
1,1-Dichloroethene	<0.14	ug/m3	0.40	0.5		03/24/19 09:57	75-35-4	
cis-1,2-Dichloroethene	<0.11	ug/m3	0.40	0.5		03/24/19 09:57	156-59-2	
trans-1,2-Dichloroethene	<0.14	ug/m3	0.40	0.5		03/24/19 09:57	156-60-5	
1,2-Dichloropropane	<0.12	ug/m3	0.47	0.5		03/24/19 09:57	78-87-5	
cis-1,3-Dichloropropene	<0.15	ug/m3	0.46	0.5		03/24/19 09:57	10061-01-5	
trans-1,3-Dichloropropene	<0.22	ug/m3	0.46	0.5		03/24/19 09:57	10061-02-6	
Dichlorotetrafluoroethane	<0.22	ug/m3	0.71	0.5		03/24/19 09:57	76-14-2	
Ethanol	0.50J	ug/m3	0.96	0.5		03/24/19 09:57	64-17-5	
Ethyl acetate	<0.095	ug/m3	0.37	0.5		03/24/19 09:57	141-78-6	
Ethylbenzene	<0.15	ug/m3	0.44	0.5		03/24/19 09:57	100-41-4	
4-Ethyltoluene	<0.28	ug/m3	1.2	0.5		03/24/19 09:57	622-96-8	
n-Heptane	<0.19	ug/m3	0.42	0.5		03/24/19 09:57	142-82-5	
Hexachloro-1,3-butadiene	<0.98	ug/m3	2.7	0.5		03/24/19 09:57	87-68-3	
n-Hexane	<0.16	ug/m3	0.36	0.5		03/24/19 09:57	110-54-3	
2-Hexanone	<0.37	ug/m3	2.1	0.5		03/24/19 09:57	591-78-6	
Methylene Chloride	<0.47	ug/m3	1.8	0.5		03/24/19 09:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.26	ug/m3	2.1	0.5		03/24/19 09:57	108-10-1	
Methyl-tert-butyl ether	<0.33	ug/m3	1.8	0.5		03/24/19 09:57	1634-04-4	
Naphthalene	<0.66	ug/m3	1.3	0.5		03/24/19 09:57	91-20-3	
2-Propanol	<0.35	ug/m3	1.2	0.5		03/24/19 09:57	67-63-0	
Propylene	<0.072	ug/m3	0.18	0.5		03/24/19 09:57	115-07-1	
Styrene	<0.17	ug/m3	0.43	0.5		03/24/19 09:57	100-42-5	
1,1,2,2-Tetrachloroethane	<0.15	ug/m3	0.35	0.5		03/24/19 09:57	79-34-5	
Tetrachloroethene	<0.16	ug/m3	0.34	0.5		03/24/19 09:57	127-18-4	
Tetrahydrofuran	<0.13	ug/m3	0.30	0.5		03/24/19 09:57	109-99-9	
Toluene	<0.18	ug/m3	0.38	0.5		03/24/19 09:57	108-88-3	
1,2,4-Trichlorobenzene	<1.9	ug/m3	3.8	0.5		03/24/19 09:57	120-82-1	
1,1,1-Trichloroethane	<0.15	ug/m3	0.56	0.5		03/24/19 09:57	71-55-6	
1,1,2-Trichloroethane	<0.12	ug/m3	0.28	0.5		03/24/19 09:57	79-00-5	

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ANALYTICAL RESULTS

Project: LA 496-LA 502

Pace Project No.: 10468767

Sample: LA 497 CERT 2811		Lab ID: 10468767010	Collected: 03/28/19 13:48	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
Trichloroethene	<0.13	ug/m3	0.27	0.5		03/24/19 09:57	79-01-6	
Trichlorofluoromethane	<0.18	ug/m3	0.57	0.5		03/24/19 09:57	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.28	ug/m3	0.78	0.5		03/24/19 09:57	76-13-1	
1,2,4-Trimethylbenzene	<0.23	ug/m3	0.50	0.5		03/24/19 09:57	95-63-6	
1,3,5-Trimethylbenzene	<0.20	ug/m3	0.50	0.5		03/24/19 09:57	108-67-8	
Vinyl acetate	<0.14	ug/m3	0.36	0.5		03/24/19 09:57	108-05-4	
Vinyl chloride	<0.063	ug/m3	0.13	0.5		03/24/19 09:57	75-01-4	
m&p-Xylene	<0.35	ug/m3	0.88	0.5		03/24/19 09:57	179601-23-1	
o-Xylene	<0.17	ug/m3	0.44	0.5		03/24/19 09:57	95-47-6	

Sample: LA 496		Lab ID: 10468767011	Collected: 03/28/19 14:16	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	2.0J	ug/m3	3.7	1.52		03/30/19 15:48	67-64-1	
Benzene	0.27J	ug/m3	0.49	1.52		03/30/19 15:48	71-43-2	
Benzyl chloride	<1.8	ug/m3	4.0	1.52		03/30/19 15:48	100-44-7	
Bromodichloromethane	<0.56	ug/m3	2.1	1.52		03/30/19 15:48	75-27-4	
Bromoform	<2.2	ug/m3	8.0	1.52		03/30/19 15:48	75-25-2	
Bromomethane	<0.35	ug/m3	1.2	1.52		03/30/19 15:48	74-83-9	
1,3-Butadiene	<0.19	ug/m3	0.68	1.52		03/30/19 15:48	106-99-0	
2-Butanone (MEK)	<0.56	ug/m3	4.6	1.52		03/30/19 15:48	78-93-3	
Carbon disulfide	1.5	ug/m3	0.96	1.52		03/30/19 15:48	75-15-0	
Carbon tetrachloride	<0.65	ug/m3	1.9	1.52		03/30/19 15:48	56-23-5	
Chlorobenzene	1.1J	ug/m3	1.4	1.52		03/30/19 15:48	108-90-7	
Chloroethane	<0.40	ug/m3	0.81	1.52		03/30/19 15:48	75-00-3	
Chloroform	5.9	ug/m3	0.75	1.52		03/30/19 15:48	67-66-3	
Chloromethane	0.58J	ug/m3	0.64	1.52		03/30/19 15:48	74-87-3	
Cyclohexane	<0.54	ug/m3	2.7	1.52		03/30/19 15:48	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.6	1.52		03/30/19 15:48	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/m3	1.2	1.52		03/30/19 15:48	106-93-4	
1,2-Dichlorobenzene	<0.76	ug/m3	1.9	1.52		03/30/19 15:48	95-50-1	
1,3-Dichlorobenzene	<0.88	ug/m3	1.9	1.52		03/30/19 15:48	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	4.7	1.52		03/30/19 15:48	106-46-7	
Dichlorodifluoromethane	1.8	ug/m3	1.5	1.52		03/30/19 15:48	75-71-8	
1,1-Dichloroethane	<0.34	ug/m3	1.3	1.52		03/30/19 15:48	75-34-3	
1,2-Dichloroethane	<0.23	ug/m3	0.62	1.52		03/30/19 15:48	107-06-2	
1,1-Dichloroethene	<0.42	ug/m3	1.2	1.52		03/30/19 15:48	75-35-4	
cis-1,2-Dichloroethene	<0.33	ug/m3	1.2	1.52		03/30/19 15:48	156-59-2	
trans-1,2-Dichloroethene	<0.43	ug/m3	1.2	1.52		03/30/19 15:48	156-60-5	
1,2-Dichloropropane	<0.35	ug/m3	1.4	1.52		03/30/19 15:48	78-87-5	
cis-1,3-Dichloropropene	<0.46	ug/m3	1.4	1.52		03/30/19 15:48	10061-01-5	
trans-1,3-Dichloropropene	<0.67	ug/m3	1.4	1.52		03/30/19 15:48	10061-02-6	
Dichlorotetrafluoroethane	<0.66	ug/m3	2.2	1.52		03/30/19 15:48	76-14-2	
Ethanol	2.8J	ug/m3	2.9	1.52		03/30/19 15:48	64-17-5	

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ANALYTICAL RESULTS

Project: LA 496-LA 502
Pace Project No.: 10468767

Sample: LA 496		Lab ID: 10468767011	Collected: 03/28/19 14:16	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Ethyl acetate	<0.29	ug/m3	1.1	1.52		03/30/19 15:48	141-78-6	
Ethylbenzene	1.0J	ug/m3	1.3	1.52		03/30/19 15:48	100-41-4	
4-Ethyltoluene	<0.87	ug/m3	3.8	1.52		03/30/19 15:48	622-96-8	
n-Heptane	21.0	ug/m3	1.3	1.52		03/30/19 15:48	142-82-5	
Hexachloro-1,3-butadiene	<3.0	ug/m3	8.2	1.52		03/30/19 15:48	87-68-3	
n-Hexane	0.79J	ug/m3	1.1	1.52		03/30/19 15:48	110-54-3	
2-Hexanone	<1.1	ug/m3	6.3	1.52		03/30/19 15:48	591-78-6	
Methylene Chloride	2.0J	ug/m3	5.4	1.52		03/30/19 15:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.79	ug/m3	6.3	1.52		03/30/19 15:48	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/m3	5.6	1.52		03/30/19 15:48	1634-04-4	
Naphthalene	<2.0	ug/m3	4.0	1.52		03/30/19 15:48	91-20-3	
2-Propanol	<1.1	ug/m3	3.8	1.52		03/30/19 15:48	67-63-0	
Propylene	3.2	ug/m3	0.53	1.52		03/30/19 15:48	115-07-1	
Styrene	<0.52	ug/m3	1.3	1.52		03/30/19 15:48	100-42-5	
1,1,2,2-Tetrachloroethane	<0.44	ug/m3	1.1	1.52		03/30/19 15:48	79-34-5	
Tetrachloroethene	<0.48	ug/m3	1.0	1.52		03/30/19 15:48	127-18-4	
Tetrahydrofuran	1.1	ug/m3	0.91	1.52		03/30/19 15:48	109-99-9	
Toluene	6.5	ug/m3	1.2	1.52		03/30/19 15:48	108-88-3	
1,2,4-Trichlorobenzene	<5.7	ug/m3	11.5	1.52		03/30/19 15:48	120-82-1	
1,1,1-Trichloroethane	<0.47	ug/m3	1.7	1.52		03/30/19 15:48	71-55-6	
1,1,2-Trichloroethane	<0.38	ug/m3	0.84	1.52		03/30/19 15:48	79-00-5	
Trichloroethene	<0.39	ug/m3	0.83	1.52		03/30/19 15:48	79-01-6	
Trichlorofluoromethane	1.2J	ug/m3	1.7	1.52		03/30/19 15:48	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.86	ug/m3	2.4	1.52		03/30/19 15:48	76-13-1	
1,2,4-Trimethylbenzene	<0.69	ug/m3	1.5	1.52		03/30/19 15:48	95-63-6	
1,3,5-Trimethylbenzene	<0.61	ug/m3	1.5	1.52		03/30/19 15:48	108-67-8	
Vinyl acetate	<0.41	ug/m3	1.1	1.52		03/30/19 15:48	108-05-4	
Vinyl chloride	<0.19	ug/m3	0.40	1.52		03/30/19 15:48	75-01-4	
m&p-Xylene	3.9	ug/m3	2.7	1.52		03/30/19 15:48	179601-23-1	
o-Xylene	1.2J	ug/m3	1.3	1.52		03/30/19 15:48	95-47-6	

Sample: LA 496 CERT 2817		Lab ID: 10468767012	Collected: 03/28/19 14:16	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
Acetone	<0.60	ug/m3	1.2	0.5		03/15/19 10:16	67-64-1	
Benzene	<0.076	ug/m3	0.16	0.5		03/15/19 10:16	71-43-2	
Benzyl chloride	<0.60	ug/m3	1.3	0.5		03/15/19 10:16	100-44-7	
Bromodichloromethane	<0.18	ug/m3	0.68	0.5		03/15/19 10:16	75-27-4	
Bromoform	<0.71	ug/m3	2.6	0.5		03/15/19 10:16	75-25-2	
Bromomethane	<0.11	ug/m3	0.39	0.5		03/15/19 10:16	74-83-9	
1,3-Butadiene	<0.064	ug/m3	0.22	0.5		03/15/19 10:16	106-99-0	
2-Butanone (MEK)	<0.18	ug/m3	1.5	0.5		03/15/19 10:16	78-93-3	
Carbon disulfide	<0.11	ug/m3	0.32	0.5		03/15/19 10:16	75-15-0	
Carbon tetrachloride	<0.21	ug/m3	0.64	0.5		03/15/19 10:16	56-23-5	

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ANALYTICAL RESULTS

Project: LA 496-LA 502
Pace Project No.: 10468767

Sample: LA 496 CERT 2817	Lab ID: 10468767012	Collected: 03/28/19 14:16	Received: 03/29/19 09:45	Matrix: Air				
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
Chlorobenzene	<0.14	ug/m3	0.47	0.5		03/15/19 10:16	108-90-7	
Chloroethane	<0.13	ug/m3	0.27	0.5		03/15/19 10:16	75-00-3	
Chloroform	<0.098	ug/m3	0.25	0.5		03/15/19 10:16	67-66-3	
Chloromethane	<0.078	ug/m3	0.21	0.5		03/15/19 10:16	74-87-3	
Cyclohexane	<0.18	ug/m3	0.88	0.5		03/15/19 10:16	110-82-7	
Dibromochloromethane	<0.36	ug/m3	0.86	0.5		03/15/19 10:16	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/m3	0.39	0.5		03/15/19 10:16	106-93-4	
1,2-Dichlorobenzene	<0.25	ug/m3	0.61	0.5		03/15/19 10:16	95-50-1	
1,3-Dichlorobenzene	<0.29	ug/m3	0.61	0.5		03/15/19 10:16	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/m3	1.5	0.5		03/15/19 10:16	106-46-7	
Dichlorodifluoromethane	<0.15	ug/m3	0.50	0.5		03/15/19 10:16	75-71-8	
1,1-Dichloroethane	<0.11	ug/m3	0.41	0.5		03/15/19 10:16	75-34-3	
1,2-Dichloroethane	<0.075	ug/m3	0.21	0.5		03/15/19 10:16	107-06-2	
1,1-Dichloroethene	<0.14	ug/m3	0.40	0.5		03/15/19 10:16	75-35-4	
cis-1,2-Dichloroethene	<0.11	ug/m3	0.40	0.5		03/15/19 10:16	156-59-2	
trans-1,2-Dichloroethene	<0.14	ug/m3	0.40	0.5		03/15/19 10:16	156-60-5	
1,2-Dichloropropane	<0.12	ug/m3	0.47	0.5		03/15/19 10:16	78-87-5	
cis-1,3-Dichloropropene	<0.15	ug/m3	0.46	0.5		03/15/19 10:16	10061-01-5	
trans-1,3-Dichloropropene	<0.22	ug/m3	0.46	0.5		03/15/19 10:16	10061-02-6	
Dichlorotetrafluoroethane	<0.22	ug/m3	0.71	0.5		03/15/19 10:16	76-14-2	
Ethanol	<0.41	ug/m3	0.96	0.5		03/15/19 10:16	64-17-5	
Ethyl acetate	<0.095	ug/m3	0.37	0.5		03/15/19 10:16	141-78-6	
Ethylbenzene	<0.15	ug/m3	0.44	0.5		03/15/19 10:16	100-41-4	
4-Ethyltoluene	<0.28	ug/m3	1.2	0.5		03/15/19 10:16	622-96-8	
n-Heptane	<0.19	ug/m3	0.42	0.5		03/15/19 10:16	142-82-5	
Hexachloro-1,3-butadiene	<0.98	ug/m3	2.7	0.5		03/15/19 10:16	87-68-3	
n-Hexane	<0.16	ug/m3	0.36	0.5		03/15/19 10:16	110-54-3	
2-Hexanone	<0.37	ug/m3	2.1	0.5		03/15/19 10:16	591-78-6	
Methylene Chloride	<0.47	ug/m3	1.8	0.5		03/15/19 10:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.26	ug/m3	2.1	0.5		03/15/19 10:16	108-10-1	
Methyl-tert-butyl ether	<0.33	ug/m3	1.8	0.5		03/15/19 10:16	1634-04-4	
Naphthalene	<0.66	ug/m3	1.3	0.5		03/15/19 10:16	91-20-3	
2-Propanol	<0.35	ug/m3	1.2	0.5		03/15/19 10:16	67-63-0	
Propylene	<0.072	ug/m3	0.18	0.5		03/15/19 10:16	115-07-1	
Styrene	<0.17	ug/m3	0.43	0.5		03/15/19 10:16	100-42-5	
1,1,2,2-Tetrachloroethane	<0.15	ug/m3	0.35	0.5		03/15/19 10:16	79-34-5	
Tetrachloroethene	<0.16	ug/m3	0.34	0.5		03/15/19 10:16	127-18-4	
Tetrahydrofuran	<0.13	ug/m3	0.30	0.5		03/15/19 10:16	109-99-9	
Toluene	<0.18	ug/m3	0.38	0.5		03/15/19 10:16	108-88-3	
1,2,4-Trichlorobenzene	<1.9	ug/m3	3.8	0.5		03/15/19 10:16	120-82-1	
1,1,1-Trichloroethane	<0.15	ug/m3	0.56	0.5		03/15/19 10:16	71-55-6	
1,1,2-Trichloroethane	<0.12	ug/m3	0.28	0.5		03/15/19 10:16	79-00-5	
Trichloroethene	<0.13	ug/m3	0.27	0.5		03/15/19 10:16	79-01-6	
Trichlorofluoromethane	<0.18	ug/m3	0.57	0.5		03/15/19 10:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.28	ug/m3	0.78	0.5		03/15/19 10:16	76-13-1	
1,2,4-Trimethylbenzene	<0.23	ug/m3	0.50	0.5		03/15/19 10:16	95-63-6	
1,3,5-Trimethylbenzene	<0.20	ug/m3	0.50	0.5		03/15/19 10:16	108-67-8	

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ANALYTICAL RESULTS

Project: LA 496-LA 502

Pace Project No.: 10468767

Sample: LA 496 CERT 2817		Lab ID: 10468767012	Collected: 03/28/19 14:16	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
Vinyl acetate	<0.14	ug/m3	0.36	0.5		03/15/19 10:16	108-05-4	
Vinyl chloride	<0.063	ug/m3	0.13	0.5		03/15/19 10:16	75-01-4	
m&p-Xylene	<0.35	ug/m3	0.88	0.5		03/15/19 10:16	179601-23-1	
o-Xylene	<0.17	ug/m3	0.44	0.5		03/15/19 10:16	95-47-6	

Sample: LA 500		Lab ID: 10468767013	Collected: 03/28/19 15:05	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
Acetone	13.3	ug/m3	3.5	1.44		03/30/19 16:17	67-64-1	
Benzene	0.53	ug/m3	0.47	1.44		03/30/19 16:17	71-43-2	
Benzyl chloride	<1.7	ug/m3	3.8	1.44		03/30/19 16:17	100-44-7	
Bromodichloromethane	<0.53	ug/m3	2.0	1.44		03/30/19 16:17	75-27-4	
Bromoform	<2.0	ug/m3	7.6	1.44		03/30/19 16:17	75-25-2	
Bromomethane	<0.33	ug/m3	1.1	1.44		03/30/19 16:17	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.65	1.44		03/30/19 16:17	106-99-0	
2-Butanone (MEK)	1.7J	ug/m3	4.3	1.44		03/30/19 16:17	78-93-3	
Carbon disulfide	<0.32	ug/m3	0.91	1.44		03/30/19 16:17	75-15-0	
Carbon tetrachloride	<0.62	ug/m3	1.8	1.44		03/30/19 16:17	56-23-5	
Chlorobenzene	<0.40	ug/m3	1.3	1.44		03/30/19 16:17	108-90-7	
Chloroethane	<0.37	ug/m3	0.77	1.44		03/30/19 16:17	75-00-3	
Chloroform	<0.28	ug/m3	0.71	1.44		03/30/19 16:17	67-66-3	
Chloromethane	1.2	ug/m3	0.60	1.44		03/30/19 16:17	74-87-3	
Cyclohexane	0.54J	ug/m3	2.5	1.44		03/30/19 16:17	110-82-7	
Dibromochloromethane	<1.0	ug/m3	2.5	1.44		03/30/19 16:17	124-48-1	
1,2-Dibromoethane (EDB)	<0.53	ug/m3	1.1	1.44		03/30/19 16:17	106-93-4	
1,2-Dichlorobenzene	<0.72	ug/m3	1.8	1.44		03/30/19 16:17	95-50-1	
1,3-Dichlorobenzene	<0.84	ug/m3	1.8	1.44		03/30/19 16:17	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/m3	4.4	1.44		03/30/19 16:17	106-46-7	
Dichlorodifluoromethane	1.8	ug/m3	1.5	1.44		03/30/19 16:17	75-71-8	
1,1-Dichloroethane	<0.32	ug/m3	1.2	1.44		03/30/19 16:17	75-34-3	
1,2-Dichloroethane	<0.22	ug/m3	0.59	1.44		03/30/19 16:17	107-06-2	
1,1-Dichloroethene	<0.39	ug/m3	1.2	1.44		03/30/19 16:17	75-35-4	
cis-1,2-Dichloroethene	<0.32	ug/m3	1.2	1.44		03/30/19 16:17	156-59-2	
trans-1,2-Dichloroethene	<0.41	ug/m3	1.2	1.44		03/30/19 16:17	156-60-5	
1,2-Dichloropropane	<0.33	ug/m3	1.4	1.44		03/30/19 16:17	78-87-5	
cis-1,3-Dichloropropene	<0.44	ug/m3	1.3	1.44		03/30/19 16:17	10061-01-5	
trans-1,3-Dichloropropene	<0.63	ug/m3	1.3	1.44		03/30/19 16:17	10061-02-6	
Dichlorotetrafluoroethane	<0.63	ug/m3	2.0	1.44		03/30/19 16:17	76-14-2	
Ethanol	8.5	ug/m3	2.8	1.44		03/30/19 16:17	64-17-5	
Ethyl acetate	2.9	ug/m3	1.1	1.44		03/30/19 16:17	141-78-6	
Ethylbenzene	<0.44	ug/m3	1.3	1.44		03/30/19 16:17	100-41-4	
4-Ethyltoluene	<0.82	ug/m3	3.6	1.44		03/30/19 16:17	622-96-8	
n-Heptane	<0.55	ug/m3	1.2	1.44		03/30/19 16:17	142-82-5	
Hexachloro-1,3-butadiene	<2.8	ug/m3	7.8	1.44		03/30/19 16:17	87-68-3	

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ANALYTICAL RESULTS

Project: LA 496-LA 502
Pace Project No.: 10468767

Sample: LA 500		Lab ID: 10468767013	Collected: 03/28/19 15:05	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR		Analytical Method: TO-15						
n-Hexane	2.6	ug/m3	1.0	1.44		03/30/19 16:17	110-54-3	
2-Hexanone	<1.1	ug/m3	6.0	1.44		03/30/19 16:17	591-78-6	
Methylene Chloride	16.6	ug/m3	5.1	1.44		03/30/19 16:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.75	ug/m3	6.0	1.44		03/30/19 16:17	108-10-1	
Methyl-tert-butyl ether	<0.95	ug/m3	5.3	1.44		03/30/19 16:17	1634-04-4	
Naphthalene	<1.9	ug/m3	3.8	1.44		03/30/19 16:17	91-20-3	
2-Propanol	3.6	ug/m3	3.6	1.44		03/30/19 16:17	67-63-0	
Propylene	<0.21	ug/m3	0.50	1.44		03/30/19 16:17	115-07-1	
Styrene	<0.50	ug/m3	1.2	1.44		03/30/19 16:17	100-42-5	
1,1,2,2-Tetrachloroethane	<0.42	ug/m3	1.0	1.44		03/30/19 16:17	79-34-5	
Tetrachloroethene	<0.45	ug/m3	0.99	1.44		03/30/19 16:17	127-18-4	
Tetrahydrofuran	0.76J	ug/m3	0.86	1.44		03/30/19 16:17	109-99-9	
Toluene	2.4	ug/m3	1.1	1.44		03/30/19 16:17	108-88-3	
1,2,4-Trichlorobenzene	<5.4	ug/m3	10.9	1.44		03/30/19 16:17	120-82-1	
1,1,1-Trichloroethane	0.60J	ug/m3	1.6	1.44		03/30/19 16:17	71-55-6	
1,1,2-Trichloroethane	<0.36	ug/m3	0.80	1.44		03/30/19 16:17	79-00-5	
Trichloroethene	0.58J	ug/m3	0.79	1.44		03/30/19 16:17	79-01-6	
Trichlorofluoromethane	1.1J	ug/m3	1.6	1.44		03/30/19 16:17	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.81	ug/m3	2.2	1.44		03/30/19 16:17	76-13-1	
1,2,4-Trimethylbenzene	<0.65	ug/m3	1.4	1.44		03/30/19 16:17	95-63-6	
1,3,5-Trimethylbenzene	<0.57	ug/m3	1.4	1.44		03/30/19 16:17	108-67-8	
Vinyl acetate	<0.39	ug/m3	1.0	1.44		03/30/19 16:17	108-05-4	
Vinyl chloride	<0.18	ug/m3	0.37	1.44		03/30/19 16:17	75-01-4	
m&p-Xylene	<1.0	ug/m3	2.5	1.44		03/30/19 16:17	179601-23-1	
o-Xylene	<0.50	ug/m3	1.3	1.44		03/30/19 16:17	95-47-6	

Sample: LA 500 CERT 0255		Lab ID: 10468767014	Collected: 03/28/19 15:05	Received: 03/29/19 09:45	Matrix: Air			
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
Acetone	<0.60	ug/m3	1.2	0.5		03/23/19 09:05	67-64-1	
Benzene	<0.076	ug/m3	0.16	0.5		03/23/19 09:05	71-43-2	
Benzyl chloride	<0.60	ug/m3	1.3	0.5		03/23/19 09:05	100-44-7	
Bromodichloromethane	<0.18	ug/m3	0.68	0.5		03/23/19 09:05	75-27-4	
Bromoform	<0.71	ug/m3	2.6	0.5		03/23/19 09:05	75-25-2	
Bromomethane	<0.11	ug/m3	0.39	0.5		03/23/19 09:05	74-83-9	
1,3-Butadiene	<0.064	ug/m3	0.22	0.5		03/23/19 09:05	106-99-0	
2-Butanone (MEK)	<0.18	ug/m3	1.5	0.5		03/23/19 09:05	78-93-3	
Carbon disulfide	<0.11	ug/m3	0.32	0.5		03/23/19 09:05	75-15-0	
Carbon tetrachloride	<0.21	ug/m3	0.64	0.5		03/23/19 09:05	56-23-5	
Chlorobenzene	<0.14	ug/m3	0.47	0.5		03/23/19 09:05	108-90-7	
Chloroethane	<0.13	ug/m3	0.27	0.5		03/23/19 09:05	75-00-3	
Chloroform	<0.098	ug/m3	0.25	0.5		03/23/19 09:05	67-66-3	
Chloromethane	<0.078	ug/m3	0.21	0.5		03/23/19 09:05	74-87-3	
Cyclohexane	<0.18	ug/m3	0.88	0.5		03/23/19 09:05	110-82-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LA 496-LA 502

Pace Project No.: 10468767

Sample: LA 500 CERT 0255	Lab ID: 10468767014	Collected: 03/28/19 15:05	Received: 03/29/19 09:45	Matrix: Air				
Parameters	Results	Units	PQL	DF	Prepared	Analyzed	CAS No.	Qual
Individual Can Certification		Analytical Method: TO-15						
Dibromochloromethane	<0.36	ug/m3	0.86	0.5		03/23/19 09:05	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/m3	0.39	0.5		03/23/19 09:05	106-93-4	
1,2-Dichlorobenzene	<0.25	ug/m3	0.61	0.5		03/23/19 09:05	95-50-1	
1,3-Dichlorobenzene	<0.29	ug/m3	0.61	0.5		03/23/19 09:05	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/m3	1.5	0.5		03/23/19 09:05	106-46-7	
Dichlorodifluoromethane	<0.15	ug/m3	0.50	0.5		03/23/19 09:05	75-71-8	
1,1-Dichloroethane	<0.11	ug/m3	0.41	0.5		03/23/19 09:05	75-34-3	
1,2-Dichloroethane	<0.075	ug/m3	0.21	0.5		03/23/19 09:05	107-06-2	
1,1-Dichloroethene	<0.14	ug/m3	0.40	0.5		03/23/19 09:05	75-35-4	
cis-1,2-Dichloroethene	<0.11	ug/m3	0.40	0.5		03/23/19 09:05	156-59-2	
trans-1,2-Dichloroethene	<0.14	ug/m3	0.40	0.5		03/23/19 09:05	156-60-5	
1,2-Dichloropropane	<0.12	ug/m3	0.47	0.5		03/23/19 09:05	78-87-5	
cis-1,3-Dichloropropene	<0.15	ug/m3	0.46	0.5		03/23/19 09:05	10061-01-5	
trans-1,3-Dichloropropene	<0.22	ug/m3	0.46	0.5		03/23/19 09:05	10061-02-6	
Dichlorotetrafluoroethane	<0.22	ug/m3	0.71	0.5		03/23/19 09:05	76-14-2	
Ethanol	<0.41	ug/m3	0.96	0.5		03/23/19 09:05	64-17-5	
Ethyl acetate	<0.095	ug/m3	0.37	0.5		03/23/19 09:05	141-78-6	
Ethylbenzene	<0.15	ug/m3	0.44	0.5		03/23/19 09:05	100-41-4	
4-Ethyltoluene	<0.28	ug/m3	1.2	0.5		03/23/19 09:05	622-96-8	
n-Heptane	<0.19	ug/m3	0.42	0.5		03/23/19 09:05	142-82-5	
Hexachloro-1,3-butadiene	<0.98	ug/m3	2.7	0.5		03/23/19 09:05	87-68-3	
n-Hexane	<0.16	ug/m3	0.36	0.5		03/23/19 09:05	110-54-3	
2-Hexanone	<0.37	ug/m3	2.1	0.5		03/23/19 09:05	591-78-6	
Methylene Chloride	<0.47	ug/m3	1.8	0.5		03/23/19 09:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.26	ug/m3	2.1	0.5		03/23/19 09:05	108-10-1	
Methyl-tert-butyl ether	<0.33	ug/m3	1.8	0.5		03/23/19 09:05	1634-04-4	
Naphthalene	<0.66	ug/m3	1.3	0.5		03/23/19 09:05	91-20-3	
2-Propanol	<0.35	ug/m3	1.2	0.5		03/23/19 09:05	67-63-0	
Propylene	<0.072	ug/m3	0.18	0.5		03/23/19 09:05	115-07-1	
Styrene	<0.17	ug/m3	0.43	0.5		03/23/19 09:05	100-42-5	
1,1,2,2-Tetrachloroethane	<0.15	ug/m3	0.35	0.5		03/23/19 09:05	79-34-5	
Tetrachloroethene	<0.16	ug/m3	0.34	0.5		03/23/19 09:05	127-18-4	
Tetrahydrofuran	<0.13	ug/m3	0.30	0.5		03/23/19 09:05	109-99-9	
Toluene	<0.18	ug/m3	0.38	0.5		03/23/19 09:05	108-88-3	
1,2,4-Trichlorobenzene	<1.9	ug/m3	3.8	0.5		03/23/19 09:05	120-82-1	
1,1,1-Trichloroethane	<0.15	ug/m3	0.56	0.5		03/23/19 09:05	71-55-6	
1,1,2-Trichloroethane	<0.12	ug/m3	0.28	0.5		03/23/19 09:05	79-00-5	
Trichloroethene	<0.13	ug/m3	0.27	0.5		03/23/19 09:05	79-01-6	
Trichlorofluoromethane	<0.18	ug/m3	0.57	0.5		03/23/19 09:05	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.28	ug/m3	0.78	0.5		03/23/19 09:05	76-13-1	
1,2,4-Trimethylbenzene	<0.23	ug/m3	0.50	0.5		03/23/19 09:05	95-63-6	
1,3,5-Trimethylbenzene	<0.20	ug/m3	0.50	0.5		03/23/19 09:05	108-67-8	
Vinyl acetate	<0.14	ug/m3	0.36	0.5		03/23/19 09:05	108-05-4	
Vinyl chloride	<0.063	ug/m3	0.13	0.5		03/23/19 09:05	75-01-4	
m&p-Xylene	<0.35	ug/m3	0.88	0.5		03/23/19 09:05	179601-23-1	
o-Xylene	<0.17	ug/m3	0.44	0.5		03/23/19 09:05	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LA 496-LA 502
Pace Project No.: 10468767

QC Batch: 596663 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10468767001, 10468767003, 10468767005, 10468767007, 10468767009, 10468767011, 10468767013

METHOD BLANK: 3226386 Matrix: Air
Associated Lab Samples: 10468767001, 10468767003, 10468767005, 10468767007, 10468767009, 10468767011, 10468767013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.15	0.56	03/30/19 12:55	
1,1,2,2-Tetrachloroethane	ug/m3	<0.15	0.35	03/30/19 12:55	
1,1,2-Trichloroethane	ug/m3	<0.12	0.28	03/30/19 12:55	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.28	0.78	03/30/19 12:55	
1,1-Dichloroethane	ug/m3	<0.11	0.41	03/30/19 12:55	
1,1-Dichloroethene	ug/m3	<0.14	0.40	03/30/19 12:55	
1,2,4-Trichlorobenzene	ug/m3	<1.9	3.8	03/30/19 12:55	
1,2,4-Trimethylbenzene	ug/m3	<0.23	0.50	03/30/19 12:55	
1,2-Dibromoethane (EDB)	ug/m3	<0.18	0.39	03/30/19 12:55	
1,2-Dichlorobenzene	ug/m3	<0.25	0.61	03/30/19 12:55	
1,2-Dichloroethane	ug/m3	<0.075	0.21	03/30/19 12:55	
1,2-Dichloropropane	ug/m3	<0.12	0.47	03/30/19 12:55	
1,3,5-Trimethylbenzene	ug/m3	<0.20	0.50	03/30/19 12:55	
1,3-Butadiene	ug/m3	<0.064	0.22	03/30/19 12:55	
1,3-Dichlorobenzene	ug/m3	<0.29	0.61	03/30/19 12:55	
1,4-Dichlorobenzene	ug/m3	<0.50	1.5	03/30/19 12:55	
2-Butanone (MEK)	ug/m3	<0.18	1.5	03/30/19 12:55	
2-Hexanone	ug/m3	<0.37	2.1	03/30/19 12:55	
2-Propanol	ug/m3	<0.35	1.2	03/30/19 12:55	
4-Ethyltoluene	ug/m3	<0.28	1.2	03/30/19 12:55	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.26	2.1	03/30/19 12:55	
Acetone	ug/m3	<0.60	1.2	03/30/19 12:55	
Benzene	ug/m3	<0.076	0.16	03/30/19 12:55	
Benzyl chloride	ug/m3	<0.60	1.3	03/30/19 12:55	
Bromodichloromethane	ug/m3	<0.18	0.68	03/30/19 12:55	
Bromoform	ug/m3	<0.71	2.6	03/30/19 12:55	
Bromomethane	ug/m3	<0.11	0.39	03/30/19 12:55	
Carbon disulfide	ug/m3	<0.11	0.32	03/30/19 12:55	
Carbon tetrachloride	ug/m3	<0.21	0.64	03/30/19 12:55	
Chlorobenzene	ug/m3	<0.14	0.47	03/30/19 12:55	
Chloroethane	ug/m3	<0.13	0.27	03/30/19 12:55	
Chloroform	ug/m3	<0.098	0.25	03/30/19 12:55	
Chloromethane	ug/m3	<0.078	0.21	03/30/19 12:55	
cis-1,2-Dichloroethene	ug/m3	<0.11	0.40	03/30/19 12:55	
cis-1,3-Dichloropropene	ug/m3	<0.15	0.46	03/30/19 12:55	
Cyclohexane	ug/m3	<0.18	0.88	03/30/19 12:55	
Dibromochloromethane	ug/m3	<0.36	0.86	03/30/19 12:55	
Dichlorodifluoromethane	ug/m3	<0.15	0.50	03/30/19 12:55	
Dichlorotetrafluoroethane	ug/m3	<0.22	0.71	03/30/19 12:55	
Ethanol	ug/m3	<0.41	0.96	03/30/19 12:55	
Ethyl acetate	ug/m3	<0.095	0.37	03/30/19 12:55	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LA 496-LA 502

Pace Project No.: 10468767

METHOD BLANK: 3226386

Matrix: Air

Associated Lab Samples: 10468767001, 10468767003, 10468767005, 10468767007, 10468767009, 10468767011, 10468767013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.15	0.44	03/30/19 12:55	
Hexachloro-1,3-butadiene	ug/m3	<0.98	2.7	03/30/19 12:55	
m&p-Xylene	ug/m3	<0.35	0.88	03/30/19 12:55	
Methyl-tert-butyl ether	ug/m3	<0.33	1.8	03/30/19 12:55	
Methylene Chloride	ug/m3	<0.47	1.8	03/30/19 12:55	
n-Heptane	ug/m3	<0.19	0.42	03/30/19 12:55	
n-Hexane	ug/m3	<0.16	0.36	03/30/19 12:55	
Naphthalene	ug/m3	<0.66	1.3	03/30/19 12:55	
o-Xylene	ug/m3	<0.17	0.44	03/30/19 12:55	
Propylene	ug/m3	<0.072	0.18	03/30/19 12:55	
Styrene	ug/m3	<0.17	0.43	03/30/19 12:55	
Tetrachloroethene	ug/m3	<0.16	0.34	03/30/19 12:55	
Tetrahydrofuran	ug/m3	<0.13	0.30	03/30/19 12:55	
Toluene	ug/m3	<0.18	0.38	03/30/19 12:55	
trans-1,2-Dichloroethene	ug/m3	<0.14	0.40	03/30/19 12:55	
trans-1,3-Dichloropropene	ug/m3	<0.22	0.46	03/30/19 12:55	
Trichloroethene	ug/m3	<0.13	0.27	03/30/19 12:55	
Trichlorofluoromethane	ug/m3	<0.18	0.57	03/30/19 12:55	
Vinyl acetate	ug/m3	<0.14	0.36	03/30/19 12:55	
Vinyl chloride	ug/m3	<0.063	0.13	03/30/19 12:55	

LABORATORY CONTROL SAMPLE: 3226387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	56.6	54.8	97	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	69.8	100	70-132	
1,1,2-Trichloroethane	ug/m3	58.2	52.9	91	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	84.9	76.3	90	70-130	
1,1-Dichloroethane	ug/m3	42.4	41.1	97	70-130	
1,1-Dichloroethene	ug/m3	43.5	39.4	91	70-130	
1,2,4-Trichlorobenzene	ug/m3	74.7	74.7	100	56-130	
1,2,4-Trimethylbenzene	ug/m3	53	46.1	87	70-134	
1,2-Dibromoethane (EDB)	ug/m3	83.6	73.5	88	70-130	
1,2-Dichlorobenzene	ug/m3	59.9	54.7	91	70-132	
1,2-Dichloroethane	ug/m3	42.8	40.8	95	70-130	
1,2-Dichloropropane	ug/m3	48.4	44.7	92	70-130	
1,3,5-Trimethylbenzene	ug/m3	53.5	47.7	89	70-132	
1,3-Butadiene	ug/m3	22.5	22.9	102	65-130	
1,3-Dichlorobenzene	ug/m3	65.4	57.1	87	70-137	
1,4-Dichlorobenzene	ug/m3	65.4	58.7	90	70-134	
2-Butanone (MEK)	ug/m3	32.4	25.1	77	70-130	
2-Hexanone	ug/m3	42.9	40.9	95	70-135	
2-Propanol	ug/m3	26.5	31.1	118	68-130	
4-Ethyltoluene	ug/m3	52	48.3	93	70-138	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LA 496-LA 502

Pace Project No.: 10468767

LABORATORY CONTROL SAMPLE: 3226387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	42	41.9	100	70-131	
Acetone	ug/m3	26.6	23.5	89	67-130	
Benzene	ug/m3	34.4	31.6	92	70-130	
Benzyl chloride	ug/m3	56.3	61.0	108	70-130	
Bromodichloromethane	ug/m3	69.5	69.7	100	70-130	
Bromoform	ug/m3	97.7	116	119	70-132	
Bromomethane	ug/m3	32.9	38.3	116	69-130	
Carbon disulfide	ug/m3	32.9	33.1	100	56-137	
Carbon tetrachloride	ug/m3	65.9	61.5	93	66-131	
Chlorobenzene	ug/m3	49.6	44.4	90	70-130	
Chloroethane	ug/m3	26.8	26.2	98	70-130	
Chloroform	ug/m3	52.6	52.6	100	70-130	
Chloromethane	ug/m3	22.2	20.9	94	66-130	
cis-1,2-Dichloroethene	ug/m3	41.9	37.0	88	70-130	
cis-1,3-Dichloropropene	ug/m3	48	42.7	89	70-133	
Cyclohexane	ug/m3	35.3	34.0	96	68-132	
Dibromochloromethane	ug/m3	90	102	114	70-130	
Dichlorodifluoromethane	ug/m3	52.8	47.3	90	70-130	
Dichlorotetrafluoroethane	ug/m3	74.6	69.5	93	70-130	
Ethanol	ug/m3	21.1	19.0	90	68-133	
Ethyl acetate	ug/m3	38.8	35.2	91	69-130	
Ethylbenzene	ug/m3	45.5	42.9	94	67-131	
Hexachloro-1,3-butadiene	ug/m3	108	95.2	88	66-137	
m&p-Xylene	ug/m3	45.9	46.0	100	70-132	
Methyl-tert-butyl ether	ug/m3	37.4	36.2	97	70-130	
Methylene Chloride	ug/m3	38.1	38.2	100	65-130	
n-Heptane	ug/m3	43.7	38.7	88	65-130	
n-Hexane	ug/m3	37.6	32.1	85	66-130	
Naphthalene	ug/m3	52.7	50.4	96	56-130	
o-Xylene	ug/m3	44.1	42.5	96	70-130	
Propylene	ug/m3	19.2	16.7	87	67-130	
Styrene	ug/m3	44.2	42.8	97	69-136	
Tetrachloroethene	ug/m3	70.3	65.8	94	70-130	
Tetrahydrofuran	ug/m3	30.3	32.1	106	68-131	
Toluene	ug/m3	39.4	35.7	91	70-130	
trans-1,2-Dichloroethene	ug/m3	41.5	39.5	95	70-130	
trans-1,3-Dichloropropene	ug/m3	44.8	45.8	102	70-134	
Trichloroethene	ug/m3	56.3	52.1	93	70-130	
Trichlorofluoromethane	ug/m3	58.8	59.7	101	65-130	
Vinyl acetate	ug/m3	35.1	34.8	99	61-133	
Vinyl chloride	ug/m3	28.1	26.9	96	70-130	

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QUALITY CONTROL DATA

Project: LA 496-LA 502

Pace Project No.: 10468767

SAMPLE DUPLICATE: 3226734

Parameter	Units	10468206001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<1.6	<0.44		25	
1,1,2,2-Tetrachloroethane	ug/m3	<1.0	<0.42		25	
1,1,2-Trichloroethane	ug/m3	<0.80	<0.36		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<2.2	<0.81		25	
1,1-Dichloroethane	ug/m3	<1.2	<0.32		25	
1,1-Dichloroethene	ug/m3	<1.2	<0.39		25	
1,2,4-Trichlorobenzene	ug/m3	<10.9	<5.4		25	
1,2,4-Trimethylbenzene	ug/m3	<1.4	0.74J		25	
1,2-Dibromoethane (EDB)	ug/m3	<1.1	<0.53		25	
1,2-Dichlorobenzene	ug/m3	<1.8	<0.72		25	
1,2-Dichloroethane	ug/m3	<0.59	<0.22		25	
1,2-Dichloropropane	ug/m3	<1.4	<0.33		25	
1,3,5-Trimethylbenzene	ug/m3	<1.4	<0.57		25	
1,3-Butadiene	ug/m3	<0.65	<0.18		25	
1,3-Dichlorobenzene	ug/m3	<1.8	<0.84		25	
1,4-Dichlorobenzene	ug/m3	<4.4	<1.4		25	
2-Butanone (MEK)	ug/m3	<4.3	0.67J		25	
2-Hexanone	ug/m3	<6.0	<1.1		25	
2-Propanol	ug/m3	<3.6	2.9J		25	
4-Ethyltoluene	ug/m3	<3.6	<0.82		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<6.0	<0.75		25	
Acetone	ug/m3	5.6	5.6	1	25	
Benzene	ug/m3	1.0	1.1	8	25	
Benzyl chloride	ug/m3	<3.8	<1.7		25	
Bromodichloromethane	ug/m3	<2.0	<0.53		25	
Bromoform	ug/m3	<7.6	<2.0		25	
Bromomethane	ug/m3	<1.1	<0.33		25	
Carbon disulfide	ug/m3	<0.91	<0.32		25	
Carbon tetrachloride	ug/m3	<1.8	<0.62		25	
Chlorobenzene	ug/m3	<1.3	<0.40		25	
Chloroethane	ug/m3	<0.77	<0.37		25	
Chloroform	ug/m3	<0.71	<0.28		25	
Chloromethane	ug/m3	0.73	0.85	15	25	
cis-1,2-Dichloroethene	ug/m3	<1.2	<0.32		25	
cis-1,3-Dichloropropene	ug/m3	<1.3	<0.44		25	
Cyclohexane	ug/m3	<2.5	<0.51		25	
Dibromochloromethane	ug/m3	<2.5	<1.0		25	
Dichlorodifluoromethane	ug/m3	1.9	1.9	0	25	
Dichlorotetrafluoroethane	ug/m3	<2.0	<0.63		25	
Ethanol	ug/m3	24.1	24.0	0	25	
Ethyl acetate	ug/m3	<1.1	<0.27		25	
Ethylbenzene	ug/m3	<1.3	0.52J		25	
Hexachloro-1,3-butadiene	ug/m3	<7.8	<2.8		25	
m&p-Xylene	ug/m3	<2.5	1.8J		25	
Methyl-tert-butyl ether	ug/m3	<5.3	<0.95		25	
Methylene Chloride	ug/m3	12.4	12.4	0	25	
n-Heptane	ug/m3	<1.2	0.70J		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LA 496-LA 502

Pace Project No.: 10468767

SAMPLE DUPLICATE: 3226734

Parameter	Units	10468206001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	1.8	1.7	6	25	
Naphthalene	ug/m3	<3.8	<1.9		25	
o-Xylene	ug/m3	<1.3	0.66J		25	
Propylene	ug/m3	<0.50	<0.21		25	
Styrene	ug/m3	<1.2	<0.50		25	
Tetrachloroethene	ug/m3	10.8	11.0	2	25	
Tetrahydrofuran	ug/m3	<0.86	0.75J		25	
Toluene	ug/m3	2.8	2.7	4	25	
trans-1,2-Dichloroethene	ug/m3	<1.2	<0.41		25	
trans-1,3-Dichloropropene	ug/m3	<1.3	<0.63		25	
Trichloroethene	ug/m3	<0.79	<0.37		25	
Trichlorofluoromethane	ug/m3	<1.6	1.1J		25	
Vinyl acetate	ug/m3	<1.0	<0.39		25	
Vinyl chloride	ug/m3	<0.37	<0.18		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: LA 496-LA 502

Pace Project No.: 10468767

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LA 496-LA 502

Pace Project No.: 10468767

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10468767001	LA 502	TO-15	596663		
10468767003	LA 501	TO-15	596663		
10468767005	LA 499	TO-15	596663		
10468767007	LA 498	TO-15	596663		
10468767009	LA 497	TO-15	596663		
10468767011	LA 496	TO-15	596663		
10468767013	LA 500	TO-15	596663		
10468767002	LA 502 CERT 1660	TO-15	597070		
10468767004	LA 501 CERT 0018	TO-15	597070		
10468767006	LA 499 CERT 3347	TO-15	597070		
10468767008	LA 498 CERT 2178	TO-15	597070		
10468767010	LA 497 CERT 2811	TO-15	597070		
10468767012	LA 496 CERT 2817	TO-15	597070		
10468767014	LA 500 CERT 0255	TO-15	597070		

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AIR: CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCUMENT. All re...

NO#: 10468767

10468767

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 38482 of	
Company: STATE OF INDIANA IDEM		Report To: DAVID HARRISON		Attention:			
Address: 160 N SENATE AVE		Copy To:		Company Name:			
Email To: INDY, IN 46204		Purchase Order No.:		Address:			
Phone: 317-232-3871		Project Name:		Pace Quote Reference:			
Requested Due Date/TAT:		Project Number:		Pace Project Manager/Sales Rep.			
		Valid Media Codes		Pace Profile #:			
		MEDIA CODE		33559			
		TB					
		1 Liter Summa Can					
		6 Liter Summa Can					
		Low Volume Puff					
		High Volume Puff					
		Other					

ITEM #	AIR SAMPLE ID	Sample IDs MUST BE UNIQUE	COLLECTED		Canister Pressure (Initial Field - In Hg)	Canister Pressure (Final Field - In Hg)	Summa Can Number	Flow Control Number	Method	Pace Lab ID
			DATE	TIME						
1	LA502		3/27/19	10:46m	-29	-3	16600541	TO-15 Full List VOCs	001 002	
2	LA501		3/27/19	14:06m	-29	-5	00180454	TO-15 Short List BTEX	003 004	
3	LA499		3/27/19	20:47m	-32	-4	33471683	TO-15 Short List (other)	005 006	
4	LA498		3/27/19	23:07m	-29.5	-3.3	21781957	TO-3M (Methane)	007 008	
5	LA497		3/27/19	24:17m	-29.5	-3.5	28111365	TO-15 Full List VOCs	009 010	
6	LA496		3/27/19	32:20m	-29.5	-3.5	28170057	TO-3M (Methane)	011 012	
7	LA500		3/27/19	40:57m	-30	-1	02550523	3C - Fixed Gas (%)	013 014	
8										
9										
10										
11										
12										

RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
HALEY FAULDS / IDEM		3/28/19	3:37 PM	HALEY FAULDS / IDEM	3/28/19	3:37 PM	Received on Ice	Y/N
David C. M. [Signature]		3/28/19	4:21 PM	HALEY FAULDS / IDEM	3/28/19	16:21	Custody	Y/N
[Signature]				HALEY FAULDS / IDEM	03/28/19	9:45	Sealed Cooler	Y/N
[Signature]				HALEY FAULDS / IDEM			Samples Intact	Y/N

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: **HALEY FAULDS**
 SIGNATURE of SAMPLER: *Haley Faulds*
 DATE Signed (MM/DD/YYYY): **03/28/19**

ORIGINAL



Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.18

Document Revised: 31Jan2019
Page 1 of 1
Issuing Authority:

WO#: 10468767

PM: CT1 Due Date: 04/05/19
CLIENT: IDEM-OLO

Air Sample Condition Upon Receipt Client Name: State of Indiana Project #:

Courier: Fed Ex UPS USPS Client
 Pace Speedee Commercial See Exception

Tracking Number: 4345 9910 8151 18140

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Tin Can Other: _____ Temp Blank rec: Yes No

Temp. (TD17 and TD13 samples only) (°C): _____ Corrected Temp (°C): _____ Thermometer Used: G87A9170600254
 G87A9155100842

Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: CA129119

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Do cans need to be pressurized (3C and ASTM 1946 DO NOT PRESSURIZE)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13.

Samples Received: _____ Pressure Gauge # 10AIR34 10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
LA502	1660	0541	-3.0	+5.0					
" 501	0018	0434	-4.0	"					
" 499	3347	1683	-3.0	"					
" 498	2178	1957	-3.0	"					
" 497	2811	1365	-3.0	"					
" 496	2817	0057	-3.5	"					
" 500	0255	0523	-2.0	"					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Carolynne Trout

Date: 3/29/19

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

SDG	Sample ID	Can No.	Pre (in Hg)	Post (in Hg)	Canister size
10468767	10468767001	1660	-30	-3	6L
10468767	10468767003	18	-30	-4	6L
10468767	10468767005	3347	-30	-3	6L
10468767	10468767007	2178	-30	-3	6L
10468767	10468767009	2811	-30	-3	6L
10468767	10468767011	2817	-30	-3.5	6L
10468767	10468767013	255	-30	-2	6L

Fraction: TO15

Instrument: 10AIRH Method:
 Column: ZB-5MSplus SN338857 0.32µm Tune Standard: 12413-18-12

 Misc. Prep. Info:
 ISTD Lot: 12413-18-12

 Surrogate Lot: 12413-18-12
 Cal. Standard: 12413-20-11

Path/File	Lab ID	Matrix/Batch	Type	DF	pH	Method	Date & Time	Oper.	Comments
08401BFB.D	BFB	L/	Tune	1		TUNE	3/25/19 06:17	MJL	
08402.D	CCV	G/	CCal	1		TO15_078-19	3/25/19 06:42	MJL	
08403.D	0	G/	Sample	1		TO15_078-19	3/25/19 07:06	MJL	
08404.D	CCV	G/	CCal	1		TO15_078-19	3/25/19 07:31	MJL	
08405.D	0	G/	Sample	1		TO15_084-19	3/25/19 07:56	MJL	
08406.D	CAL7	G/	Ical	1		TO15_084-19	3/25/19 08:22	MJL	
08407.D	CAL6	G/	Ical	1		TO15_084-19	3/25/19 08:48	MJL	
08408.D	CAL5	G/	Ical	1		TO15_084-19	3/25/19 09:13	MJL	
08409.D	CAL4	G/	Ical	1		TO15_084-19	3/25/19 09:39	MJL	
08410.D	CAL3	G/	Ical	1		TO15_084-19	3/25/19 10:04	MJL	
08411.D	CAL2	G/	Ical	1		TO15_084-19	3/25/19 10:29	MJL	
08412.D	CAL1	G/	Ical	1		TO15_084-19	3/25/19 10:53	MJL	
08413.D	ICV	G/	LCS	1		TO15_084-19	3/25/19 11:18	MJL	
08413_33258.D	3219788	G/33258	LCS	1		TO15_084-19	3/25/19 11:18	MJL	
08414.D	0	G/	Sample	1		TO15_084-19	3/25/19 11:43	MJL	
08415.D	IC	G/	Sample	1		TO15_084-19	3/25/19 12:09	MJL	
08416.D	IC	G/	Sample	1		TO15_084-19	3/25/19 12:35	MJL	
08417.D	IC	G/	Sample	1		TO15_084-19	3/25/19 13:01	MJL	
08417_33258.D	3219787	G/33258	Blank	1		TO15_084-19	3/25/19 13:01	MJL	
08418.D	CLOSEDCAN	G/	Sample	1		TO15_084-19	3/25/19 14:11	MJL	
08419.D	CLOSEDCAN	G/	Sample	1		TO15_084-19	3/25/19 15:06	MJL	
08420.D	CLOSEDCAN	G/	Sample	1		TO15_084-19	3/25/19 15:31	MJL	
08421.D	CLOSEDCAN	G/	Sample	1		TO15_084-19	3/25/19 15:56	MJL	
08422.D	CLOSEDCAN	G/	Sample	1		TO15_084-19	3/25/19 16:50	MJL	
08423.D	CLOSEDCAN	G/	Sample	1		TO15_084-19	3/25/19 17:45	MJL	
08424.D	CLOSEDCAN	G/	Sample	1		TO15_084-19	3/25/19 18:39	MJL	
08425.D	CLOSEDCAN	G/	Sample	1		TO15_084-19	3/25/19 19:34	MJL	
08426.D	CLOSEDCAN	G/	Sample	1		TO15_084-19	3/25/19 20:29	MJL	
08427.D	CLOSEDCAN	G/	Sample	1		TO15_084-19	3/25/19 21:23	MJL	
08428.D	CLOSEDCAN	G/	Sample	1		TO15_084-19	3/25/19 22:18	MJL	
08429.D	CLOSEDCAN	G/	Sample	1		TO15_084-19	3/25/19 23:13	MJL	
08430.D	CLOSEDCAN	G/	Sample	1		TO15_084-19	3/26/19 00:07	MJL	
08431.D	CLOSEDCAN	G/	Sample	1		TO15_084-19	3/26/19 01:02	MJL	
08432.D	CLOSEDCAN	G/	Sample	1		TO15_084-19	3/26/19 01:57	MJL	
08433.D	CLOSEDCAN	G/	Sample	1		TO15_084-19	3/26/19 02:52	MJL	
08434.D	CLOSEDCAN	G/	Sample	1		TO15_084-19	3/26/19 03:46	MJL	
08435.D	10467158005	G/33258	Sample	1.61		TO15_084-19	3/26/19 04:14	MJL	
08436.D	10467158006	G/33258	Sample	1.87		TO15_084-19	3/26/19 04:41	MJL	
08437.D	10467158007	G/33258	Sample	1.92		TO15_084-19	3/26/19 05:08	MJL	
08438.D	40184337001	G/33258	Sample	1.44		TO15_084-19	3/26/19 05:35	MJL	
08439.D	40184337003	G/33258	Sample	1.49		TO15_084-19	3/26/19 06:01	MJL	

Instrument: 10AIRH	Method:	Misc. Prep. Info:	Surrogate Lot: 12413-18-12
Column: ZB-5MSplus SN338857 0.32µm	Tune Standard: 12413-18-12	ISTD Lot: 12413-18-12	Cal. Standard: 12413-20-11

Path/File	Lab ID	Matrix/Batch	Type	DF	pH	Method	Date & Time	Oper.	Comments
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Check Maintenance Items Performed:

Changed septum	Clipped column	Changed column - Lot #
Cleaned liner	Changed trap - Lot #	Other minor parts replaced
Replaced/Cleaned gold seal	Cleaned MS Source	No maintenance performed today

Additional Comments:

 File Path 1: U:\10AIRH\1032519.B\

Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one

Run order verified:

Report Date: 03/26/2019 12:57

Reviewed By/Date:

Instrument: 10AIRH Method:
 Column: ZB-5MSplus SN338857 0.32µm Standard: 12413-18-12

 Misc. Prep. Info:
 ISTD Lot: 12413-18-12

 Surrogate Lot: 12413-18-12
 Cal. Standard: 12413-20-11

Path/File	Lab ID	Matrix/Batch	Type	DF	pH	Method	Date & Time	Oper.	Comments
09001BFB.D	BFB	L/	Tune	1		TUNE	3/31/19 07:17	MJL	
09002.D	CCV	G/	CCal	1		TO15_084-19	3/31/19 07:42	MJL	
09002_33318.D3226943		G/33318	LCS	1		TO15_084-19	3/31/19 07:42	MJL	
09002_33317.D3226941		G/33317	LCS	1		TO15_084-19	3/31/19 07:42	MJL	
09003.D	0	G/	Sample	1		TO15_084-19	3/31/19 08:07	MJL	
09004.D	CERT	G/	Sample	1		TO15_084-19	3/31/19 08:42	MJL	
09005.D	CERT	G/	Sample	1		TO15_084-19	3/31/19 09:08	MJL	
09006.D	CERT	G/	Sample	1		TO15_084-19	3/31/19 09:34	MJL	
09006_33317.D3226940		G/33317	Blank	1		TO15_084-19	3/31/19 09:34	MJL	
09006_33318.D3226942		G/33318	Blank	1		TO15_084-19	3/31/19 09:34	MJL	
09007.D	92423013001	G/33309	Sample	60.6		TO15_084-19	3/31/19 09:59	MJL	
09008.D	92423013003	G/33309	Sample	104.4		TO15_084-19	3/31/19 10:24	MJL	
09009.D	10467855017	G/33313	Sample	9.35		TO15_084-19	3/31/19 10:49	MJL	
09010.D	10467855014	G/33313	Sample	51.84		TO15_084-19	3/31/19 11:14	MJL	
09011.D	10467855016	G/33313	Sample	56.52		TO15_084-19	3/31/19 11:39	MJL	
09012.D	10467855013	G/33313	Sample	60.48		TO15_084-19	3/31/19 12:04	MJL	
09013.D	10467855018	G/33313	Sample	77.26		TO15_084-19	3/31/19 12:29	MJL	
09014.D	3226948	G/33313	Duplicate	77.26		TO15_084-19	3/31/19 12:54	MJL	
09015.D	92423013002	G/33309	Sample	123.6		TO15_084-19	3/31/19 13:19	MJL	
09016.D	10466983002	G/33310	Sample	17.1		TO15_084-19	3/31/19 13:44	MJL	
09017.D	10466983001	G/33310	Sample	54		TO15_084-19	3/31/19 14:09	MJL	
09018.D	10468270018	G/33310	Sample	1.55		TO15_084-19	3/31/19 14:36	MJL	
09019.D	10468270011	G/33310	Sample	14.9		TO15_084-19	3/31/19 15:02	MJL	
09020.D	10468270015	G/33310	Sample	31		TO15_084-19	3/31/19 15:27	MJL	
09021.D	10468270013	G/33310	Sample	45.6		TO15_084-19	3/31/19 15:52	MJL	
09022.D	10468270014	G/33310	Sample	45.6		TO15_084-19	3/31/19 16:16	MJL	
09023.D	10468270012	G/33310	Sample	46.5		TO15_084-19	3/31/19 16:42	MJL	
09024.D	10468270017	G/33310	Sample	89.4		TO15_084-19	3/31/19 17:06	MJL	
09025.D	10468767011	G/33312	Sample	1.52		TO15_084-19	3/31/19 17:33	MJL	
09026.D	10468767007	G/33312	Sample	1.49		TO15_084-19	3/31/19 18:00	MJL	
09027.D	10468767009	G/33312	Sample	44.7		TO15_084-19	3/31/19 18:25	MJL	
09028.D	10468767005	G/33312	Sample	89.4		TO15_084-19	3/31/19 18:50	MJL	
09029.D	10468767003	G/33312	Sample	93		TO15_084-19	3/31/19 19:15	MJL	
09030.D	92422817001	G/33314	Sample	42		TO15_084-19	3/31/19 19:40	MJL	
09031.D	10468264001	G/33314	Sample	2.22		TO15_084-19	3/31/19 20:06	MJL	
09032.D	10468611003	G/33314	Sample	2.39		TO15_084-19	3/31/19 20:33	MJL	
09033.D	10468611004	G/33314	Sample	51.3		TO15_084-19	3/31/19 20:58	MJL	
09034.D	10468611001	G/33314	Sample	50.4		TO15_084-19	3/31/19 21:23	MJL	
09035.D	10468611002	G/33314	Sample	283.2		TO15_084-19	3/31/19 21:48	MJL	
09036.D	10468270007	G/33318	Sample	1.55		TO15_084-19	3/31/19 22:15	MJL	
09037.D	10468270008	G/33318	Sample	1.52		TO15_084-19	3/31/19 22:42	MJL	
09038.D	10467527001	G/33318	Sample	1.83		TO15_084-19	3/31/19 23:08	MJL	
09039.D	10467527002	G/33318	Sample	1.8		TO15_084-19	3/31/19 23:35	MJL	
09040.D	10467527003	G/33318	Sample	1.87		TO15_084-19	4/01/19 00:01	MJL	
09041.D	10467915006	G/33317	Sample	1.8		TO15_084-19	4/01/19 00:28	MJL	
09042.D	10467915007	G/33317	Sample	1.87		TO15_084-19	4/01/19 00:55	MJL	

Instrument: 10AIRH Method: Misc. Prep. Info: Surrogate Lot: 12413-18-12
 Column: ZB-5MSplus SN338857 0.32µm Standard: 12413-18-12 ISTD Lot: 12413-18-12 Cal. Standard: 12413-20-11

Path/File	Lab ID	Matrix/Batch	Type	DF	pH	Method	Date & Time	Oper.	Comments
09043.D	10467915008	G/33317	Sample	2.02		TO15_084-19	4/01/19 01:21	MJL	
09044.D	10467679001	G/33317	Sample	1.58		TO15_084-19	4/01/19 01:48	MJL	
09045.D	3227548	G/33317	Duplicate	1.58		TO15_084-19	4/01/19 02:15	MJL	
09046.D	10467609001	G/33317	Sample	1.87		TO15_084-19	4/01/19 02:41	MJL	
09047.D	10467609003	G/33317	Sample	1.83		TO15_084-19	4/01/19 03:08	MJL	
09048.D	10467609007	G/33317	Sample	1.83		TO15_084-19	4/01/19 03:34	MJL	
09049.D	10467609009	G/33317	Sample	1.74		TO15_084-19	4/01/19 04:01	MJL	
09050.D	10467609013	G/33317	Sample	1.8		TO15_084-19	4/01/19 04:28	MJL	
09051.D	10467609015	G/33317	Sample	1.74		TO15_084-19	4/01/19 04:54	MJL	
09052.D	10467609017	G/33317	Sample	1.74		TO15_084-19	4/01/19 05:21	MJL	
09053.D	3227547	G/33317	Duplicate	1.74		TO15_084-19	4/01/19 05:49	MJL	

Check Maintenance Items Performed:

Changed septum	Clipped column	Changed column - Lot #
Cleaned liner	Changed trap - Lot #	Other minor parts replaced
Replaced/Cleaned gold seal	Cleaned MS Source	No maintenance performed today

Additional Comments:

File Path 1: U:\10AIRH\1033119.B\
 Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one

Run order verified:

Report Date: 04/01/2019 14:44
 Reviewed By/Date:

Instrument: 10AIRI Method:
 Column: DB-5 SN:USD449717H 0.32µm Standard: 12413-18-16

 Misc. Prep. Info:
 ISTD Lot: 12413-18-16

 Surrogate Lot: 12413-18-16
 Cal. Standard: 12413-20-16

Path/File	Lab ID	Matrix/Batch	Type	DF	pH	Method	Date & Time	Oper.	Comments
08901BFB.D	BFB	L/	Tune	1		TUNE	3/30/19 06:53	MJL	
08902BFB.D	BFB	L/	Tune	1		TUNE	3/30/19 07:21	MJL	
08903.D	CAL7	G/	Ical	1		TO15_089-19	3/30/19 07:49	MJL	
08904.D	CAL6	G/	Ical	1		TO15_089-19	3/30/19 08:16	MJL	
08905.D	CAL5	G/	Ical	1		TO15_089-19	3/30/19 08:43	MJL	
08906.D	CAL4	G/	Ical	1		TO15_089-19	3/30/19 09:11	MJL	
08907.D	CAL3	G/	Ical	1		TO15_089-19	3/30/19 09:38	MJL	
08908.D	CAL2	G/	Ical	1		TO15_089-19	3/30/19 10:05	MJL	
08909.D	CAL1	G/	Ical	1		TO15_089-19	3/30/19 10:33	MJL	
08910_33312.D	3226387	G/33312	LCS	1		TO15_089-19	3/30/19 11:00	MJL	
08910.D	ICV	G/	LCS	1		TO15_089-19	3/30/19 11:00	MJL	
08911.D	0	G/	Sample	1		TO15_089-19	3/30/19 11:27	MJL	
08912.D	CERT	G/	Sample	0.5		TO15_089-19	3/30/19 11:56	MJL	
08913.D	CERT	G/	Sample	0.5		TO15_089-19	3/30/19 12:26	MJL	
08914_33312.D	3226386	G/33312	Blank	0.5		TO15_089-19	3/30/19 12:55	MJL	
08914.D	IC	G/	Sample	0.5		TO15_089-19	3/30/19 12:55	MJL	
08915.D	10468767001	G/33312	Sample	1.49		TO15_089-19	3/30/19 13:24	MJL	
08916.D	10468767003	G/33312	Sample	1.55		TO15_089-19	3/30/19 13:53	MJL	
08917.D	10468767005	G/33312	Sample	1.49		TO15_089-19	3/30/19 14:22	MJL	
08918.D	10468767007	G/33312	Sample	1.49		TO15_089-19	3/30/19 14:51	MJL	
08919.D	10468767009	G/33312	Sample	1.49		TO15_089-19	3/30/19 15:19	MJL	
08920.D	10468767011	G/33312	Sample	1.52		TO15_089-19	3/30/19 15:48	MJL	
08921.D	10468767013	G/33312	Sample	1.44		TO15_089-19	3/30/19 16:17	MJL	
08922.D	10468206001	G/33312	Sample	1.44		TO15_089-19	3/30/19 16:46	MJL	
08923.D	3226734	G/33312	Duplicate	1.44		TO15_089-19	3/30/19 17:15	MJL	
08924.D	10468206003	G/33312	Sample	1.46		TO15_089-19	3/30/19 17:44	MJL	
08925.D	10468206005	G/33312	Sample	1.94		TO15_089-19	3/30/19 18:12	MJL	
08926.D	IC	G/	Sample	0.5		TO15_089-19	3/30/19 18:42	MJL	
08927.D	IC	G/	Sample	0.5		TO15_089-19	3/30/19 19:11	MJL	
08928.D	IC	G/	Sample	0.5		TO15_089-19	3/30/19 19:41	MJL	
08929.D	IC	G/	Sample	0.5		TO15_089-19	3/30/19 20:11	MJL	
08930.D	IC	G/	Sample	0.5		TO15_089-19	3/30/19 20:40	MJL	
08931.D	IC	G/	Sample	0.5		TO15_089-19	3/30/19 21:10	MJL	
08932.D	IC	G/	Sample	0.5		TO15_089-19	3/30/19 21:39	MJL	
08933.D	IC	G/	Sample	0.5		TO15_089-19	3/30/19 22:09	MJL	
08934.D	IC	G/	Sample	0.5		TO15_089-19	3/30/19 22:39	MJL	
08935.D	IC	G/	Sample	0.5		TO15_089-19	3/30/19 23:08	MJL	
08936.D	IC	G/	Sample	0.5		TO15_089-19	3/30/19 23:38	MJL	
08937.D	IC	G/	Sample	0.5		TO15_089-19	3/31/19 00:07	MJL	
08938.D	IC	G/	Sample	0.5		TO15_089-19	3/31/19 00:37	MJL	

Instrument: 10AIRI	Method:	Misc. Prep. Info:	Surrogate Lot: 12413-18-16
Column: DB-5 SN:USD449717H 0.32µm	Standard: 12413-18-16	ISTD Lot: 12413-18-16	Cal. Standard: 12413-20-16

Path/File	Lab ID	Matrix/Batch	Type	DF	pH	Method	Date & Time	Oper.	Comments
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Check Maintenance Items Performed:

Changed septum	Clipped column	Changed column - Lot #
Cleaned liner	Changed trap - Lot #	Other minor parts replaced
Replaced/Cleaned gold seal	Cleaned MS Source	No maintenance performed today

Additional Comments:

File Path 1: U:\10AIRI\I033019.B\
 Matrix Codes: [G]as, [L]iquid, [S]olid, [N]one

Run order verified:

Report Date: 04/01/2019 10:27
 Reviewed By/Date:

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-2019 08:22
 End Cal Date : 25-MAR-2019 10:53
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airH.i\032519.b\T015_084-19.m
 Last Edit : 25-Mar-2019 12:34 10airH.i

Calibration File Names:

Level 01: all \\192.168.10.12\chem\10airH.i\032519.b\08412.D
 Level 02: all \\192.168.10.12\chem\10airH.i\032519.b\08411.D
 Level 03: all \\192.168.10.12\chem\10airH.i\032519.b\08410.D
 Level 04: all \\192.168.10.12\chem\10airH.i\032519.b\08409.D
 Level 05: all \\192.168.10.12\chem\10airH.i\032519.b\08408.D
 Level 06: all \\192.168.10.12\chem\10airH.i\032519.b\08407.D
 Level 07: all \\192.168.10.12\chem\10airH.i\032519.b\08406.D

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	Coefficients			%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	30.0000										
	Level 7										
1 1,1-Difluoroethane	0.25127 0.17823	0.23012	0.20874	0.20593	0.20850	0.19307	AVRG		0.21084		11.32266
2 Chlorodifluoromethane	0.13642 0.10442	0.12562	0.11660	0.11138	0.11883	0.11060	AVRG		0.11770		9.06056
3 Propylene	0.35659 0.26820	0.35123	0.31843	0.30172	0.31386	0.29226	AVRG		0.31461		9.99906
4 Dichlorodifluoromethane	1.45156 0.85406	1.32900	1.07867	1.05412	1.07923	0.96413	AVRG		1.11582		18.51955

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-2019 08:22
 End Cal Date : 25-MAR-2019 10:53
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Last Edit : 25-Mar-2019 12:34 10airH.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
5 Dichlorotetrafluoroethane	1.36780 0.85944	1.20032	1.00595	0.97040	0.95968	0.88441	AVRG		1.03543		17.73266
6 Chloromethane	0.66619 0.40321	0.57254	0.46577	0.45641	0.45101	0.42017	AVRG		0.49076		19.24107
7 Vinyl chloride	0.49346 0.31853	0.44251	0.35895	0.34849	0.36081	0.33249	AVRG		0.37932		16.88634
8 1,3-Butadiene	0.30393 0.24632	0.34106	0.28345	0.27199	0.27304	0.25838	AVRG		0.28260		11.17146
9 Bromomethane	0.43898 0.29840	0.42217	0.35426	0.31565	0.32750	0.30577	AVRG		0.35182		16.17392
10 Chloroethane	0.21314 0.15294	0.21171	0.17817	0.16660	0.16809	0.15816	AVRG		0.17840		13.76628
11 Ethanol	0.24578 0.15556	0.20064	0.17879	0.17143	0.16986	0.15803	AVRG		0.18287		17.22412

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

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 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Last Edit : 25-Mar-2019 12:34 10airH.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
12 Vinyl Bromide	0.41402 0.28027	0.36908	0.30366	0.29355	0.30738	0.28944	AVRG		0.32248		15.42319
13 Isopentane	0.68821 0.40118	0.58587	0.47130	0.44960	0.44060	0.41138	AVRG		0.49259		21.44017
14 Freon 123	1.06886 0.71782	1.00228	0.85861	0.77288	0.79697	0.74781	AVRG		0.85218		15.72949
15 Trichlorofluoromethane	1.36961 0.89425	1.30324	1.11025	0.97369	0.99886	0.92948	AVRG		1.08277		17.26248
16 Acrolein	0.18095 0.13600	0.17922	0.15197	0.14011	0.15448	0.14463	AVRG		0.15534		11.63217
17 Acetone	1.16683 0.58347	1.03308	0.84525	0.78189	0.68907	0.62709	AVRG		0.81810		26.31407
18 Isopropyl Alcohol	1.07640 0.63064	0.95809	0.82167	0.75391	0.73961	0.67125	AVRG		0.80737		19.74699

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-2019 08:22
 End Cal Date : 25-MAR-2019 10:53
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Last Edit : 25-Mar-2019 12:34 10airH.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
19 1,1-Dichloroethene	0.911111 0.59783	0.83463	0.69273	0.64788	0.66171	0.61888	AVRG		0.70925		16.61769
20 Acrylonitrile	0.37543 0.25489	0.33412	0.30450	0.29351	0.29063	0.27217	AVRG		0.30361		13.25877
21 Tert Butyl Alcohol (TBA)	1.19416 0.79956	1.09560	0.97167	0.93635	0.92626	0.86591	AVRG		0.96993		13.89334
22 Methyl Acetate	1.20846 0.86338	1.14440	1.00254	0.95994	0.98200	0.90923	AVRG		1.00999		12.29006
23 Freon 113	0.95015 0.65062	0.89620	0.77169	0.72345	0.73833	0.68771	AVRG		0.77402		14.19824
24 Allyl Chloride	0.15911 0.14865	0.18855	0.15813	0.15309	0.17751	0.16247	AVRG		0.16393		8.62809
25 Methylene chloride	0.71944 0.44589	0.67914	0.54810	0.52504	0.52491	0.47588	AVRG		0.55977		18.20486

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-2019 08:22
 End Cal Date : 25-MAR-2019 10:53
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Last Edit : 25-Mar-2019 12:34 10airH.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
26 Carbon Disulfide	1.34510 0.90815	1.23004	1.06902	1.03410	1.05972	0.97061	AVRG		1.08811		13.86004
27 Methyl Tert Butyl Ether	1.28154 0.92691	1.25636	1.11702	1.03332	1.06857	0.98818	AVRG		1.09599		12.09780
28 trans-1,2-dichloroethene	0.44625 0.30387	0.41494	0.35625	0.34105	0.35223	0.32637	AVRG		0.36299		13.82492
29 Vinyl Acetate	1.49514 1.17605	1.46343	1.23777	1.21056	1.31735	1.24554	AVRG		1.30655		9.63033
30 1,1-Dichloroethane	0.97444 0.64105	0.86130	0.71941	0.72509	0.73469	0.68251	AVRG		0.76264		15.12731
31 Methyl Ethyl Ketone	0.30075 0.16410	0.28943	0.24611	0.23084	0.18460	0.17354	AVRG		0.22705		24.34265
32 Di-isopropyl Ether	1.93571 1.31161	1.80450	1.55842	1.46065	1.51642	1.40384	AVRG		1.57016		14.19512

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-2019 08:22
 End Cal Date : 25-MAR-2019 10:53
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Last Edit : 25-Mar-2019 12:34 10airH.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
33 n-Hexane	0.73384 0.50580	0.69342	0.61855	0.58753	0.58928	0.54299			0.61020		13.15267
34 Ethyl Acetate	1.27042 0.94890	1.19795	1.10007	1.06552	1.09797	1.01616			1.09957		9.80136
35 cis-1,2-Dichloroethene	0.42446 0.32594	0.45844	0.38881	0.37277	0.37586	0.34655			0.38469		11.70426
36 Ethyl Tert-Butyl Ether	1.70646 1.18714	1.58307	1.35380	1.28328	1.37255	1.26691			1.39332		13.31962
37 Chloroform	1.20573 0.77407	1.09820	0.92363	0.88385	0.89814	0.82585			0.94421		16.25006
38 Tetrahydrofuran	0.61807 0.41448	0.52871	0.47334	0.46497	0.47891	0.43764			0.48802		13.83337
39 1,1,1-Trichloroethane	1.16715 0.79524	1.05222	0.92208	0.88378	0.91093	0.83881			0.93860		13.73353

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-2019 08:22
 End Cal Date : 25-MAR-2019 10:53
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Last Edit : 25-Mar-2019 12:34 10airH.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
40 1,2-Dichloroethane	0.81260 0.58955	0.79645	0.67256	0.65940	0.66657	0.62275	AVRG		0.68856		12.25879
41 Benzene	1.49196 0.97497	1.37464	1.14214	1.09957	1.12905	1.03908	AVRG		1.17877		15.77955
42 Carbon tetrachloride	1.07862 0.81135	1.02092	0.87227	0.83498	0.93837	0.86202	AVRG		0.91693		10.93245
43 Cyclohexane	0.69570 0.52902	0.75307	0.62289	0.59737	0.61899	0.56942	AVRG		0.62664		12.09861
44 Tert Amyl Methyl Ether	1.41842 0.98595	1.31149	1.14537	1.08779	1.14790	1.05247	AVRG		1.16420		12.98114
46 2,2,4-Trimethylpentane	2.69088 1.66589	2.24170	1.98810	1.88396	1.93783	1.76509	AVRG		2.02478		17.05765
47 Heptane	0.97966 0.72736	0.94580	0.84414	0.82348	0.83572	0.77480	AVRG		0.84728		10.50953

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-2019 08:22
 End Cal Date : 25-MAR-2019 10:53
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Last Edit : 25-Mar-2019 12:34 10airH.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
48 Trichloroethene	0.56292 0.39581	0.54633	0.46984	0.43851	0.46016	0.42319			0.47097		13.21371
49 1,2-Dichloropropane	0.55860 0.41392	0.53018	0.47825	0.45142	0.47400	0.43975			0.47802		10.63690
50 Methyl methacrylate	0.48824 0.39082	0.48273	0.45856	0.43931	0.44410	0.40996			0.44482		8.03977
51 1,4-Dioxane	0.30043 0.21011	0.28044	0.23682	0.24779	0.24294	0.22330			0.24883		12.70148
52 Bromodichloromethane	1.23411 0.89181	1.15107	0.98803	0.96491	1.02633	0.94287			1.02845		11.84235
53 Methylcyclohexane	0.25263 0.23385	0.30570	0.25036	0.24604	0.26472	0.24664			0.25714		9.06199
54 Methyl Isobutyl Ketone	1.44475 1.04441	1.30595	1.17505	1.13411	1.17766	1.10156			1.19764		11.32866

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-2019 08:22
 End Cal Date : 25-MAR-2019 10:53
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Last Edit : 25-Mar-2019 12:34 10airH.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
55 cis-1,3-Dichloropropene	0.98601 0.70176	0.85305	0.75577	0.70537	0.79375	0.74028	AVRG		0.79086		12.74916
56 trans-1,3-Dichloropropene	0.81532 0.64225	0.69082	0.66310	0.65449	0.71515	0.66774	AVRG		0.69270		8.55032
57 Toluene	1.76774 1.15699	1.63967	1.33380	1.26901	1.32220	1.22430	AVRG		1.38767		16.35728
58 1,1,2-Trichloroethane	0.58720 0.42161	0.56215	0.45060	0.43706	0.47727	0.44362	AVRG		0.48279		13.53901
59 Methyl Butyl Ketone	1.45845 1.08423	1.44848	1.27592	1.31862	1.26101	1.17617	AVRG		1.28898		10.53494
60 n-Octane	1.71474 1.11903	1.53176	1.31407	1.22952	1.32535	1.21678	AVRG		1.35018		15.22638
61 Dibromochloromethane	1.17364 0.88454	1.13142	0.96927	0.94619	1.04484	0.95732	AVRG		1.01531		10.39105

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-2019 08:22
 End Cal Date : 25-MAR-2019 10:53
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Last Edit : 25-Mar-2019 12:34 10airH.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
62 Tetrachloroethene	0.69843 0.50474	0.71674	0.60636	0.59690	0.60827	0.55410	AVRG		0.61222		12.21794
63 1,2-Dibromoethane	1.04966 0.77126	1.02765	0.88898	0.86318	0.91001	0.83099	AVRG		0.90596		11.16204
65 Chlorobenzene	1.54397 0.95201	1.25125	1.13611	1.08422	1.13024	1.03860	AVRG		1.16234		16.50856
66 Ethyl Benzene	2.88839 1.73944	2.55446	2.06490	1.97557	2.03449	1.86419	AVRG		2.16020		18.98651
67 m&p-Xylene	2.26176 1.37813	2.02236	1.63567	1.54541	1.62901	1.49633	AVRG		1.70981		18.44820
68 n-Nonane	1.64805 1.22692	1.61772	1.37286	1.34853	1.43716	1.31919	AVRG		1.42435		10.95308
69 Styrene	1.24948 0.96255	1.16476	1.04867	0.97854	1.11258	1.03452	AVRG		1.07873		9.58127

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-2019 08:22
 End Cal Date : 25-MAR-2019 10:53
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Last Edit : 25-Mar-2019 12:34 10airH.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
70 o-Xylene	2.29403 1.43162	2.03749	1.65087	1.59865	1.68667	1.53615	AVRG		1.74793		17.51609
71 Bromoform	0.74684 0.73136	0.70951	0.67434	0.64224	0.84660	0.78551	AVRG		0.73377		9.32346
72 1,1,2,2-Tetrachloroethane	1.39121 1.08682	1.36573	1.19834	1.14565	1.26431	1.17148	AVRG		1.23193		9.23178
73 Isopropylbenzene	2.44867 1.75072	2.24194	2.01524	1.90598	2.07557	1.89241	AVRG		2.04722		11.50298
74 N-Propylbenzene	3.23289 2.35660	3.00274	2.57099	2.47772	2.81531	2.59321	AVRG		2.72135		11.43584
75 4-Ethyltoluene	2.26391 1.74950	2.11702	1.89546	1.85625	2.05194	1.88135	AVRG		1.97363		9.00684
76 1,3,5-Trimethylbenzene	2.42716 1.54098	2.14514	1.76406	1.66218	1.81279	1.64479	AVRG		1.85673		17.05345

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-2019 08:22
 End Cal Date : 25-MAR-2019 10:53
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Last Edit : 25-Mar-2019 12:34 10airH.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
77 n-Decane	1.38755 1.13386	1.20981	1.09171	1.07432	1.22874	1.15291	AVRG		1.18270		9.00882
78 Tert-Butyl Benzene	1.79220 1.36962	1.64999	1.45574	1.46325	1.57470	1.43544	AVRG		1.53442		9.57977
79 1,2,4-Trimethylbenzene	2.70820 1.53869	2.11769	1.78030	1.67942	1.80010	1.63704	AVRG		1.89449		21.25646
80 Sec- Butylbenzene	2.82895 2.18453	2.69076	2.34883	2.27604	2.52015	2.30671	AVRG		2.45085		9.68407
81 1,3-Dichlorobenzene	0.96011 0.86311	0.97154	0.87689	0.83233	0.97191	0.90615	AVRG		0.91172		6.24514
82 Benzyl Chloride	1.03541 1.26860	1.04880	0.98458	1.00823	1.33565	1.29513	AVRG		1.13948		13.38889
83 1,4-Dichlorobenzene	1.01093 0.84282	0.89027	0.82842	0.80265	0.93971	0.88167	AVRG		0.88521		8.07455

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-2019 08:22
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 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Last Edit : 25-Mar-2019 12:34 10airH.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	Coefficients			%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	30.0000										
	Level 7										
84 p-Isopropyltoluene	2.33626 1.75072	2.16241	1.91316	1.86081	2.09234	1.90806	AVRG		2.00339		10.09481
85 1,2,3-Trimethylbenzene	1.97400 1.49484	1.90546	1.67231	1.61696	1.79811	1.62809	AVRG		1.72711		9.93617
86 1,2-Dichlorobenzene	0.98834 0.79151	0.96806	0.81955	0.80577	0.91272	0.85125	AVRG		0.87674		9.11408
87 N-Butylbenzene	2.26096 1.80321	2.16308	1.83531	1.85630	2.12803	2.01938	AVRG		2.00947		9.02489
88 1,2-Dibromo-3-Chloropropane	1433 502130	2770	6069	14203	186394	364370	QUAD	-0.00939	0.53360	-0.03883	0.99953
89 1,2,4-Trichlorobenzene	1457 596317	2780	7286	17712	208945	404817	QUAD	-0.00621	0.55492	-0.02107	0.99997
90 Naphthalene	4696 1572117	9888	22418	54602	560292	1084491	QUAD	-0.01003	1.50620	-0.07032	0.99996

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-2019 08:22
 End Cal Date : 25-MAR-2019 10:53
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Last Edit : 25-Mar-2019 12:34 10airH.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	Coefficients			%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	30.0000										
	Level 7										
91 Hexachlorobutadiene	1940 537688	3792	8499	20089	208778	382929	QUAD	-0.00338	0.57060	-0.04282	0.99998

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 25-MAR-2019 08:22
End Cal Date : 25-MAR-2019 10:53
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
Last Edit : 25-Mar-2019 12:34 10airH.i

Average %RSD Results.
Calculated Average %RSD = 13.34984
Maximum Average %RSD = 0.000e+000
* Failed Average %RSD Test.

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Quad	Resp = b + m1*Amt + m2*Amt^2	Amount

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airH.i\032519.b\08406.D
 Lab Smp Id: CAL7
 Inj Date : 25-MAR-2019 08:22
 Operator : MJL Inst ID: 10airH.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Meth Date : 25-Mar-2019 12:39 10airH.i Quant Type: ISTD
 Cal Date : 25-MAR-2019 10:53 Cal File: 08412.D
 Als bottle: 6 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 1,1-Difluoroethane	65		2.925	2.925	(0.538)	236218	30.0000	25.4 (QM)
2 Chlorodifluoromethane	67		2.938	2.938	(0.540)	138393	30.0000	26.6 (QM)
3 Propylene	41		2.945	2.945	(0.542)	355460	30.0000	25.6
4 Dichlorodifluoromethane	85		2.964	2.964	(0.545)	1131931	30.0000	23.0
5 Dichlorotetrafluoroethane	85		3.035	3.035	(0.558)	1139057	30.0000	24.9
6 Chloromethane	50		3.038	3.038	(0.559)	534388	30.0000	24.6
7 Vinyl chloride	62		3.109	3.109	(0.572)	422165	30.0000	25.2
8 1,3-Butadiene	54		3.141	3.141	(0.578)	326465	30.0000	26.1 (Q)
9 Bromomethane	94		3.260	3.260	(0.600)	395485	30.0000	25.4
10 Chloroethane	64		3.305	3.305	(0.608)	202705	30.0000	25.7
11 Ethanol	45		3.314	3.314	(0.610)	1030885	150.000	128
12 Vinyl Bromide	106		3.408	3.408	(0.627)	371457	30.0000	26.1
13 Isopentane	43		3.424	3.424	(0.630)	531707	30.0000	24.4
14 Freon 123	83		3.459	3.459	(0.636)	951364	30.0000	25.3
15 Trichlorofluoromethane	101		3.485	3.485	(0.641)	1185199	30.0000	24.8
16 Acrolein	56		3.485	3.485	(0.641)	450608	75.0000	65.7
17 Acetone	43		3.507	3.507	(0.645)	3866500	150.000	107 (M)
18 Isopropyl Alcohol	45		3.533	3.533	(0.650)	4179094	150.000	117
19 1,1-Dichloroethene	61		3.700	3.700	(0.681)	792336	30.0000	25.3
20 Acrylonitrile	53		3.707	3.707	(0.682)	844549	75.0000	63.0
21 Tert Butyl Alcohol (TBA)	59		3.729	3.729	(0.686)	1059694	30.0000	24.7 (M)
22 Methyl Acetate	43		3.729	3.729	(0.686)	1144279	30.0000	25.6
23 Freon 113	101		3.732	3.732	(0.687)	862294	30.0000	25.2

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Allyl Chloride	76		3.810	3.810	(0.701)	197016	30.0000	27.2 (AQ)
25 Methylene chloride	49		3.810	3.810	(0.701)	2954796	150.0000	119
26 Carbon Disulfide	76		3.916	3.916	(0.720)	1203618	30.0000	25.0
27 Methyl Tert Butyl Ether	73		4.064	4.064	(0.747)	1228474	30.0000	25.4
28 trans-1,2-dichloroethene	96		4.080	4.080	(0.750)	402728	30.0000	25.1
29 Vinyl Acetate	43		4.154	4.154	(0.764)	1558673	30.0000	27.0 (A)
30 1,1-Dichloroethane	63		4.205	4.205	(0.773)	849614	30.0000	25.2
31 Methyl Ethyl Ketone	72		4.314	4.314	(0.794)	217489	30.0000	21.7 (M)
32 Di-isopropyl Ether	45		4.340	4.340	(0.798)	1738339	30.0000	25.1
33 n-Hexane	57		4.350	4.350	(0.800)	670367	30.0000	24.9 (Q)
34 Ethyl Acetate	43		4.472	4.472	(0.823)	1257627	30.0000	25.9
35 cis-1,2-Dichloroethene	96		4.494	4.494	(0.827)	431981	30.0000	25.4 (Q)
36 Ethyl Tert-Butyl Ether	59		4.565	4.565	(0.840)	1573381	30.0000	25.6
37 Chloroform	83		4.675	4.675	(0.860)	1025916	30.0000	24.6
38 Tetrahydrofuran	42		4.739	4.739	(0.872)	549334	30.0000	25.5
39 1,1,1-Trichloroethane	97		4.986	4.986	(0.917)	1053972	30.0000	25.4
40 1,2-Dichloroethane	62		5.067	5.067	(0.932)	781361	30.0000	25.7
41 Benzene	78		5.224	5.224	(0.961)	1292169	30.0000	24.8
42 Carbon tetrachloride	117		5.240	5.240	(0.964)	1075317	30.0000	26.5
43 Cyclohexane	56		5.266	5.266	(0.969)	701138	30.0000	25.3 (M)
44 Tert Amyl Methyl Ether	73		5.363	5.363	(0.986)	1306725	30.0000	25.4
* 45 1,4-Difluorobenzene	114		5.437	5.437	(1.000)	441783	10.0000	
46 2,2,4-Trimethylpentane	57		5.533	5.533	(1.018)	2207889	30.0000	24.7
47 Heptane	43		5.662	5.662	(1.041)	964009	30.0000	25.8
48 Trichloroethene	130		5.768	5.768	(1.061)	524593	30.0000	25.2
49 1,2-Dichloropropane	63		5.813	5.813	(1.069)	548582	30.0000	26.0
50 Methyl methacrylate	69		5.810	5.810	(1.069)	517967	30.0000	26.4 (Q)
51 1,4-Dioxane	88		5.858	5.858	(1.077)	696168	75.0000	63.3
52 Bromodichloromethane	83		5.973	5.973	(1.099)	1181954	30.0000	26.0
53 Methylcyclohexane	98		6.240	6.240	(1.148)	309935	30.0000	27.3 (Q)
54 Methyl Isobutyl Ketone	43		6.314	6.314	(1.161)	1384211	30.0000	26.2
55 cis-1,3-Dichloropropene	75		6.398	6.398	(1.177)	930078	30.0000	26.6
56 trans-1,3-Dichloropropene	75		6.845	6.845	(1.259)	851205	30.0000	27.8
57 Toluene	91		6.941	6.941	(1.277)	1533409	30.0000	25.0
58 1,1,2-Trichloroethane	97		7.067	7.067	(1.300)	558779	30.0000	26.2
59 Methyl Butyl Ketone	43		7.157	7.157	(0.849)	1321183	30.0000	25.2
60 n-Octane	43		7.366	7.366	(0.874)	1363586	30.0000	24.9
61 Dibromochloromethane	129		7.600	7.600	(0.902)	1077849	30.0000	26.1
62 Tetrachloroethene	166		7.687	7.687	(0.912)	615055	30.0000	24.7
63 1,2-Dibromoethane	107		7.803	7.803	(0.926)	939821	30.0000	25.5
* 64 Chlorobenzene - d5	117		8.427	8.427	(1.000)	406182	10.0000	
65 Chlorobenzene	112		8.472	8.472	(1.005)	1160062	30.0000	24.6
66 Ethyl Benzene	91		8.690	8.690	(1.031)	2119591	30.0000	24.2
67 m&p-Xylene	91		8.874	8.874	(1.053)	3358637	60.0000	48.4 (M)
68 n-Nonane	43		9.215	9.215	(1.093)	1495057	30.0000	25.8
69 Styrene	104		9.282	9.282	(1.101)	1172916	30.0000	26.8 (M)
70 o-Xylene	91		9.314	9.314	(1.105)	1744492	30.0000	24.6
71 Bromoform	173		9.385	9.385	(1.114)	891193	30.0000	29.9
72 1,1,2,2-Tetrachloroethane	83		9.726	9.726	(1.154)	1324337	30.0000	26.5
73 Isopropylbenzene	105		9.864	9.864	(1.171)	2133331	30.0000	25.7
74 N-Propylbenzene	91		10.433	10.433	(1.238)	2871629	30.0000	26.0
75 4-Ethyltoluene	105		10.616	10.616	(1.260)	2131844	30.0000	26.6
76 1,3,5-Trimethylbenzene	105		10.690	10.690	(1.269)	1877761	30.0000	24.9
77 n-Decane	57		11.044	11.044	(2.031)	1502761	30.0000	28.8

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
78 Tert-Butyl Benzene	119		11.137	11.137	(1.322)	1668939	30.0000	26.8
79 1,2,4-Trimethylbenzene	105		11.182	11.182	(1.327)	1874963	30.0000	24.4
80 Sec- Butylbenzene	105		11.443	11.443	(1.358)	2661950	30.0000	26.7
81 1,3-Dichlorobenzene	146		11.475	11.475	(1.362)	1051736	30.0000	28.4
82 Benzyl Chloride	91		11.549	11.549	(1.370)	1545848	30.0000	33.4 (A)
83 1,4-Dichlorobenzene	146		11.610	11.610	(1.378)	1027016	30.0000	28.6
84 p-Isopropyltoluene	119		11.649	11.649	(1.382)	2133333	30.0000	26.2
85 1,2,3-Trimethylbenzene	105		11.665	11.665	(1.384)	1821533	30.0000	26.0
86 1,2-Dichlorobenzene	146		11.915	11.915	(1.414)	964497	30.0000	27.1
87 N-Butylbenzene	91		12.095	12.095	(1.435)	2197290	30.0000	26.9
88 1,2-Dibromo-3-Chloropropane	157		12.610	12.610	(1.496)	502130	30.0000	29.8
89 1,2,4-Trichlorobenzene	180		13.555	13.555	(1.609)	596317	30.0000	30.0
90 Naphthalene	128		13.693	13.693	(1.625)	1572117	30.0000	30.0
91 Hexachlorobutadiene	225		13.806	13.806	(1.638)	537688	30.0000	30.0 (A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airH.i\032519.b\08406.D
Report Date: 25-Mar-2019 12:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airH.i
Lab File ID: 08406.D
Lab Smp Id: CAL7
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
Misc Info:

Calibration Date: 25-MAR-2019
Calibration Time: 09:13

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	451734	271040	632428	441783	-2.20
64 Chlorobenzene - d	397119	238271	555967	406182	2.28

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.43	5.10	5.76	5.44	0.06
64 Chlorobenzene - d	8.43	8.10	8.76	8.43	-0.00

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

Data File: \\192.168.10.12\chem\10airH.i\032519.b\08406.D

Date : 25-MAR-2019 08:22

Client ID:

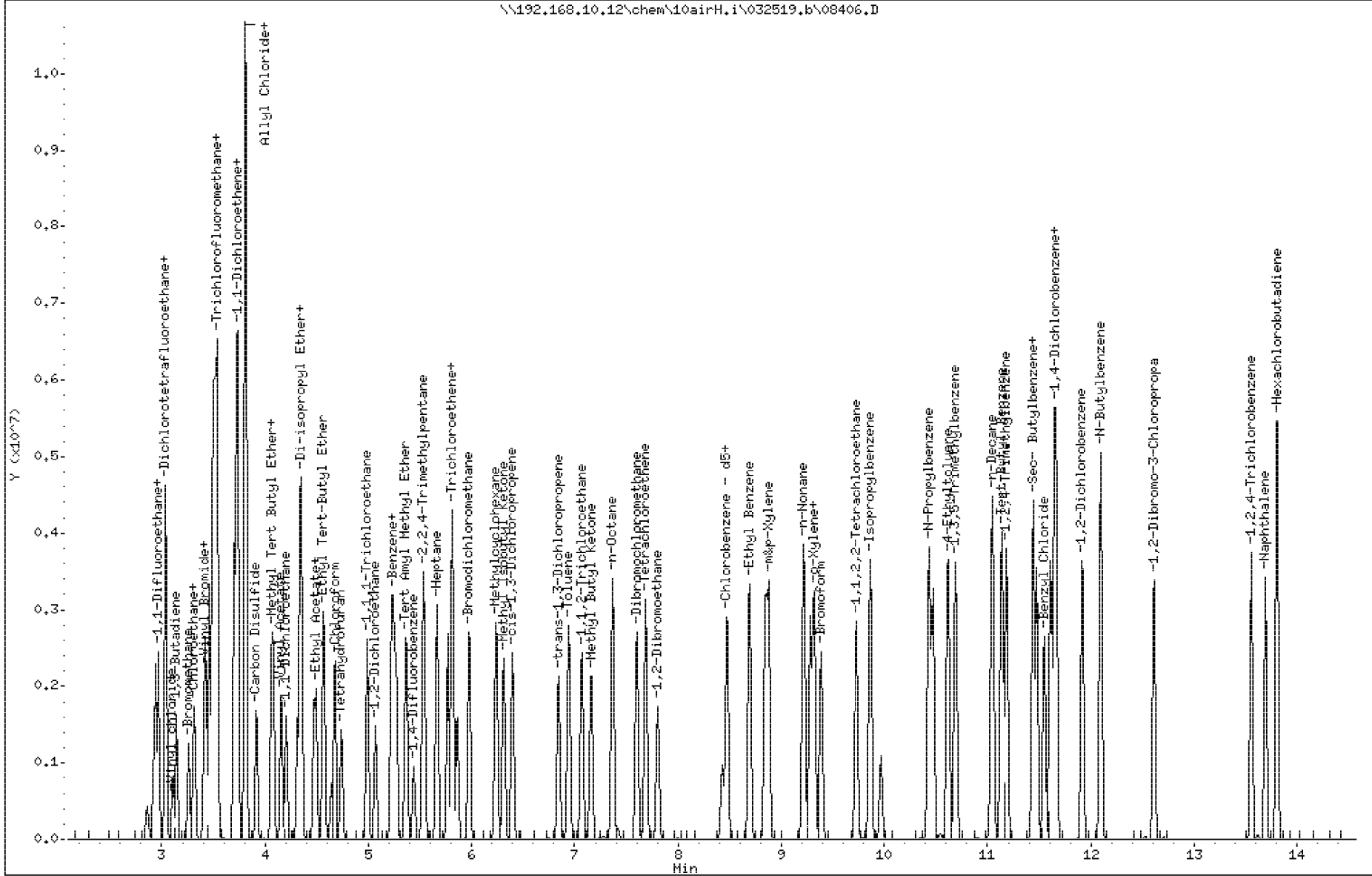
Sample Info:

Column phase: ZB-5MSplus SN338857

Instrument: 10airH.i

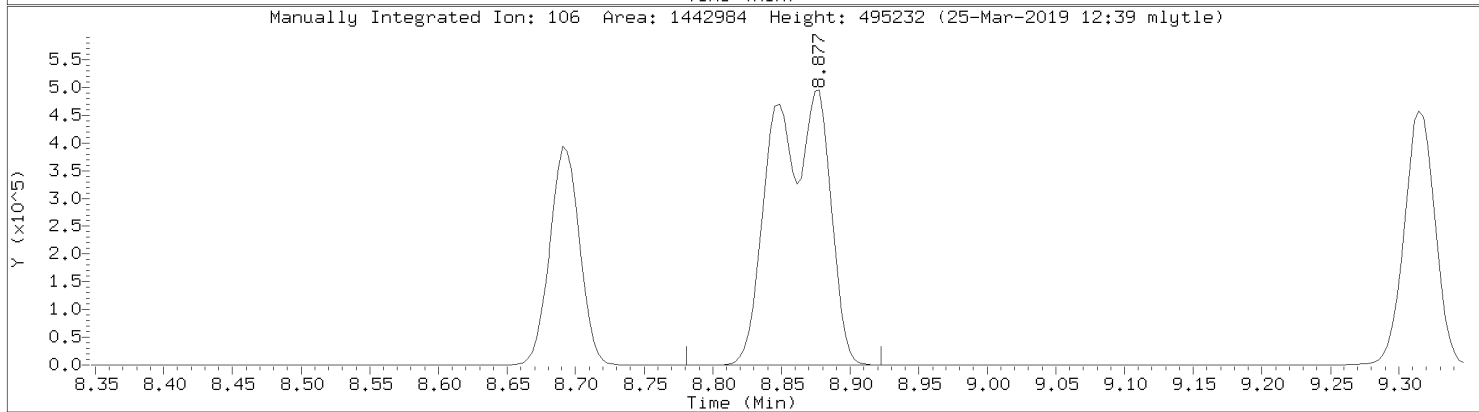
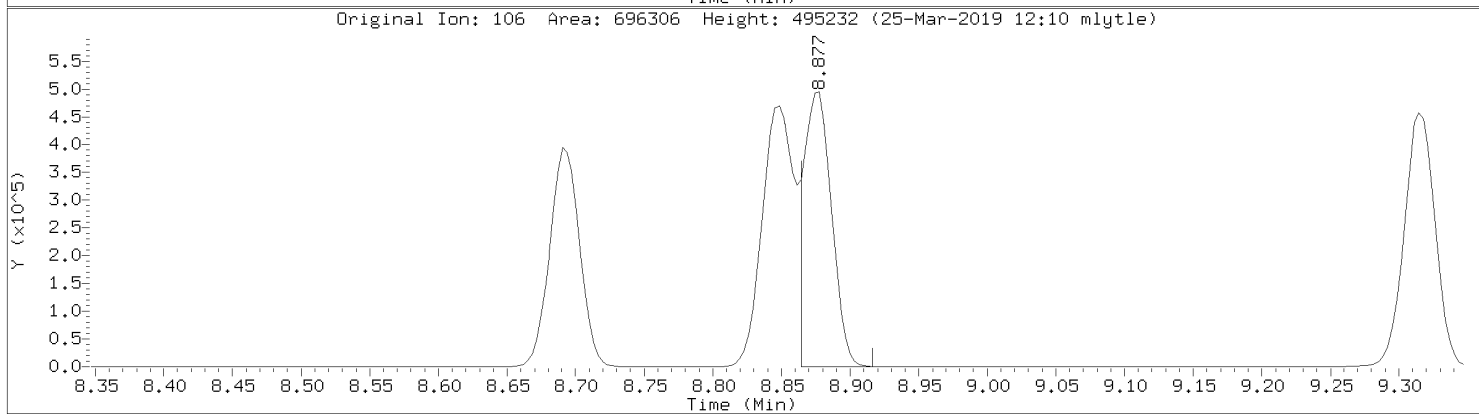
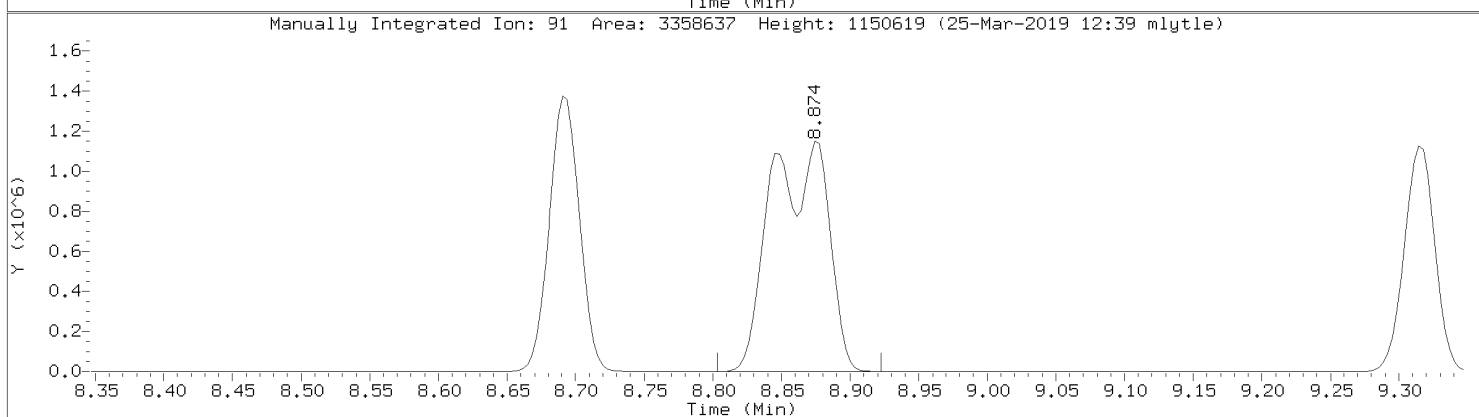
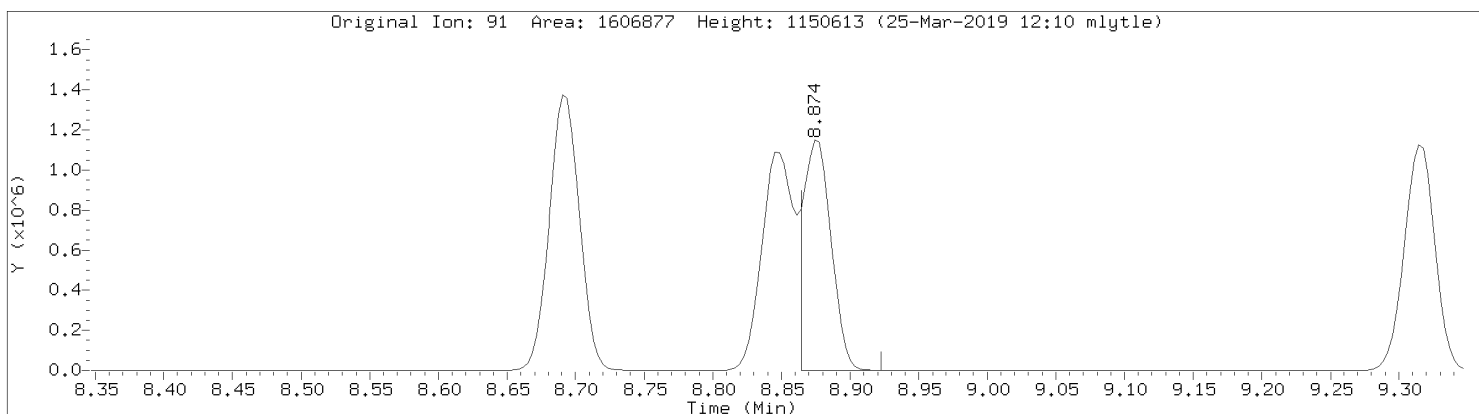
Operator: MJL

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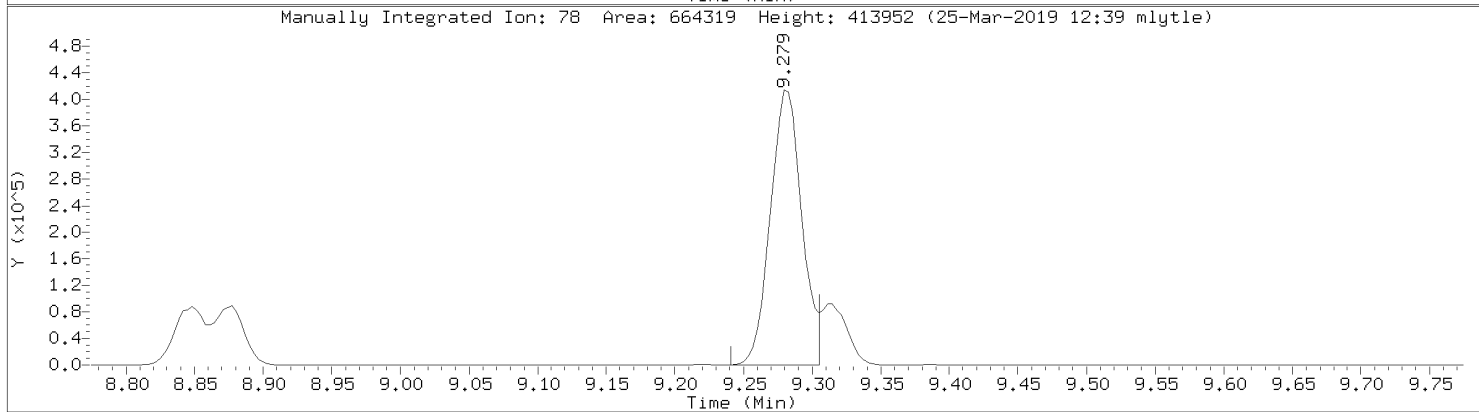
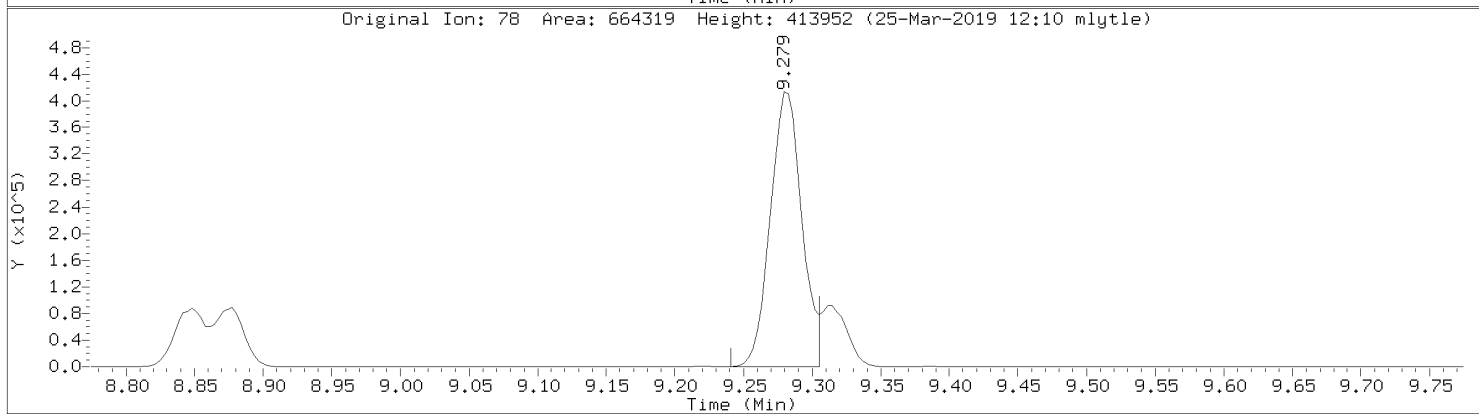
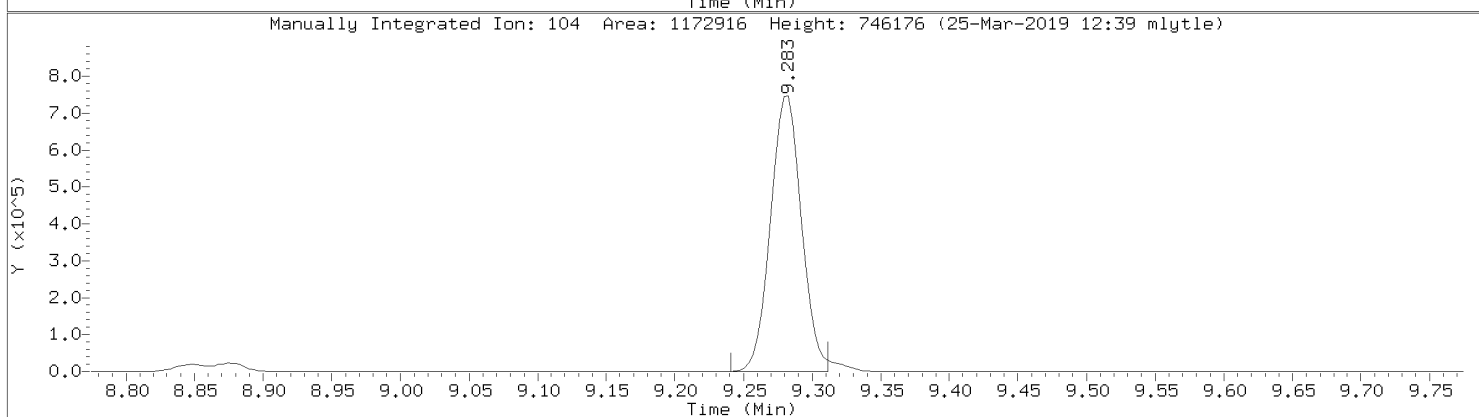
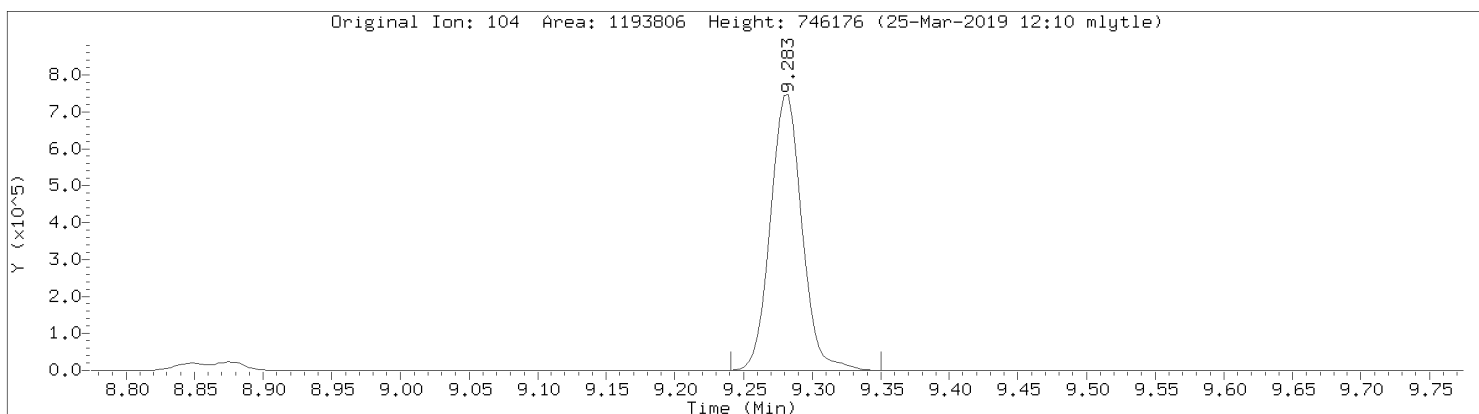
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Injection Date: 25-MAR-2019 08:22
Instrument: 10airH.i
Lab Sample ID: CAL7

Compound: m&p-Xylene
CAS Number: 7816-60-0

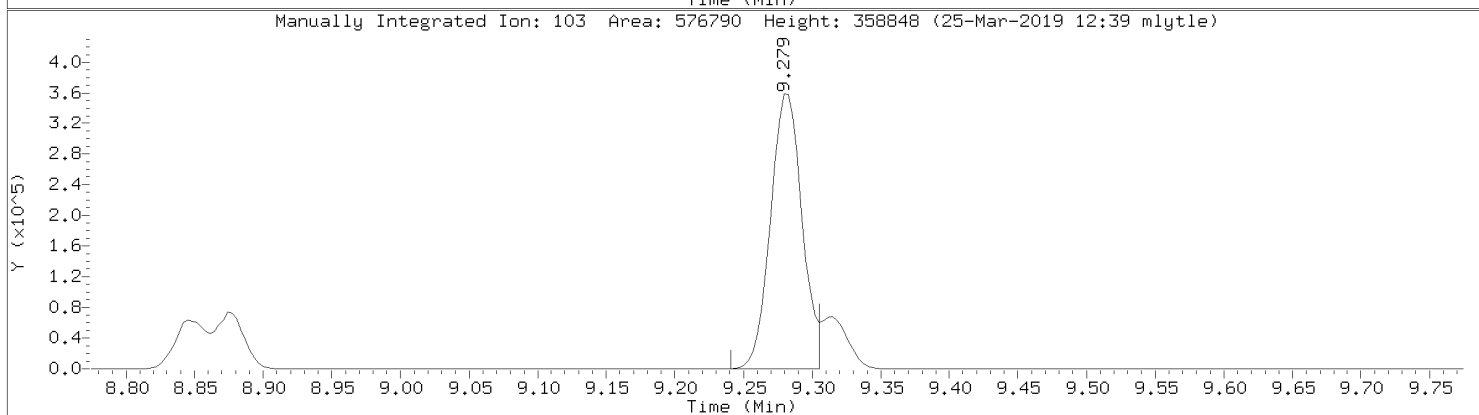
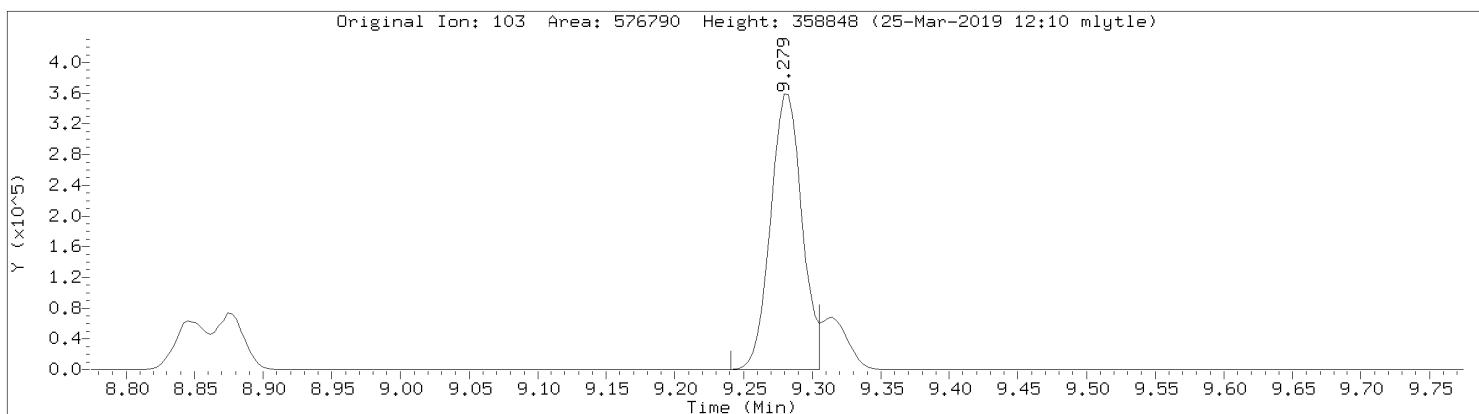


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Injection Date: 25-MAR-2019 08:22
Instrument: 10airH.i
Lab Sample ID: CAL7

Compound: Styrene
CAS Number: 100-42-5

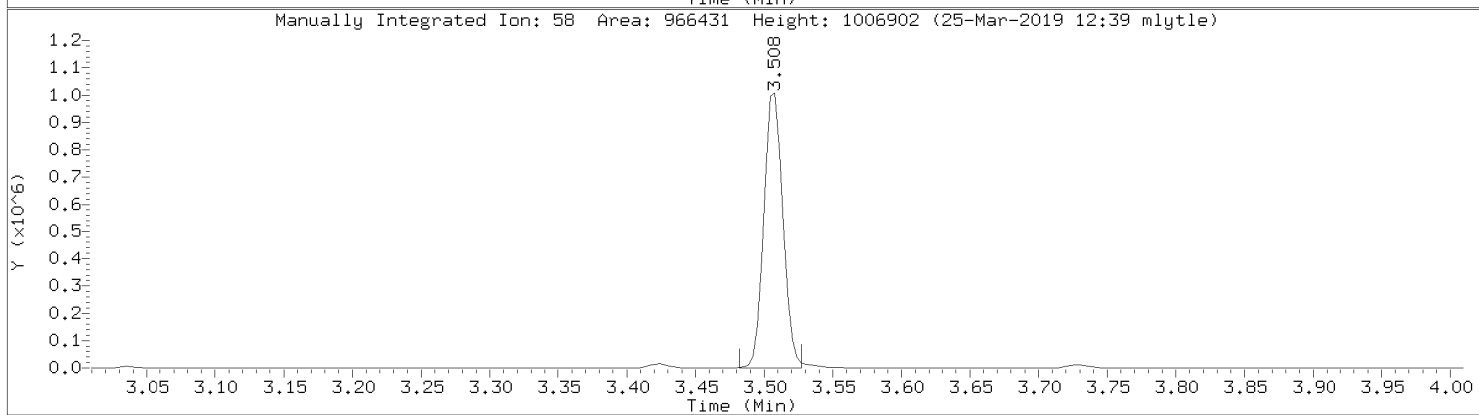
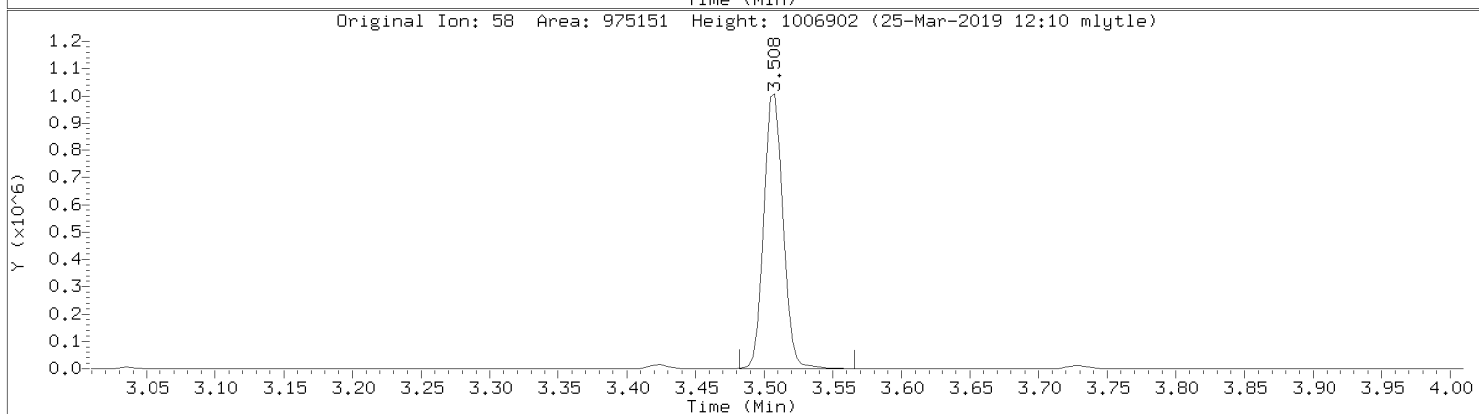
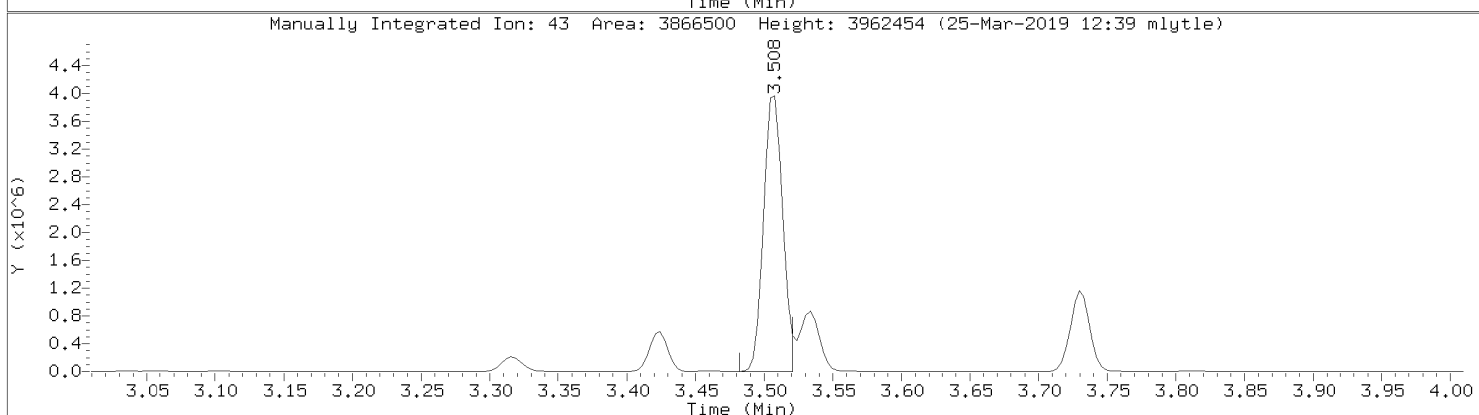
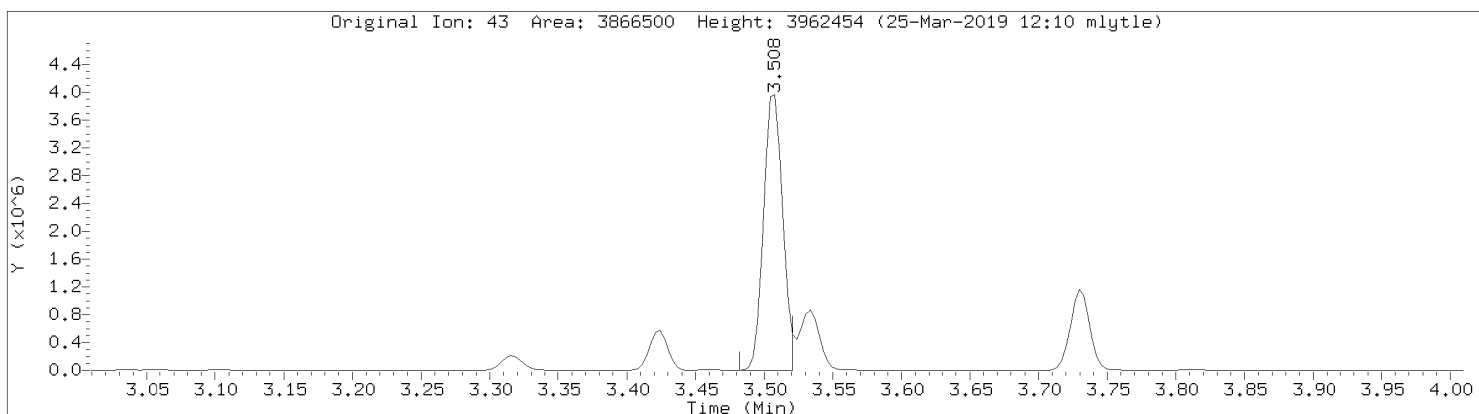


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Instrument: 10airH.i
Lab Sample ID: CAL7



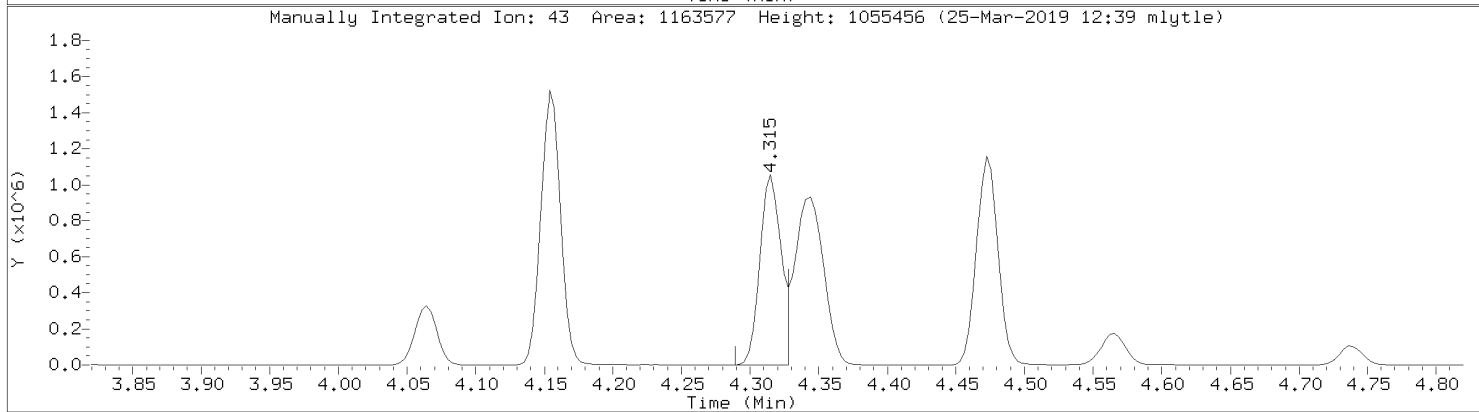
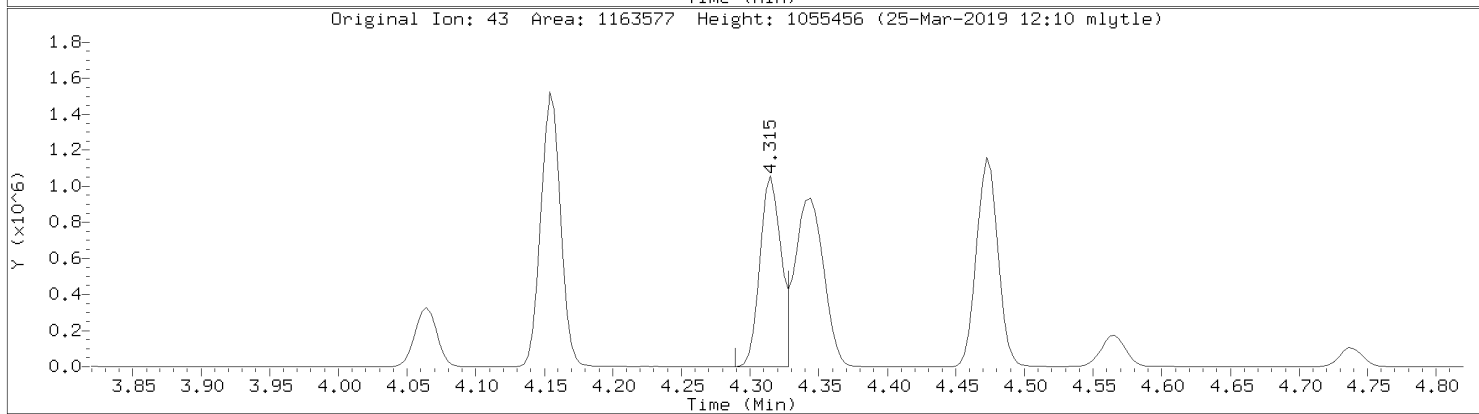
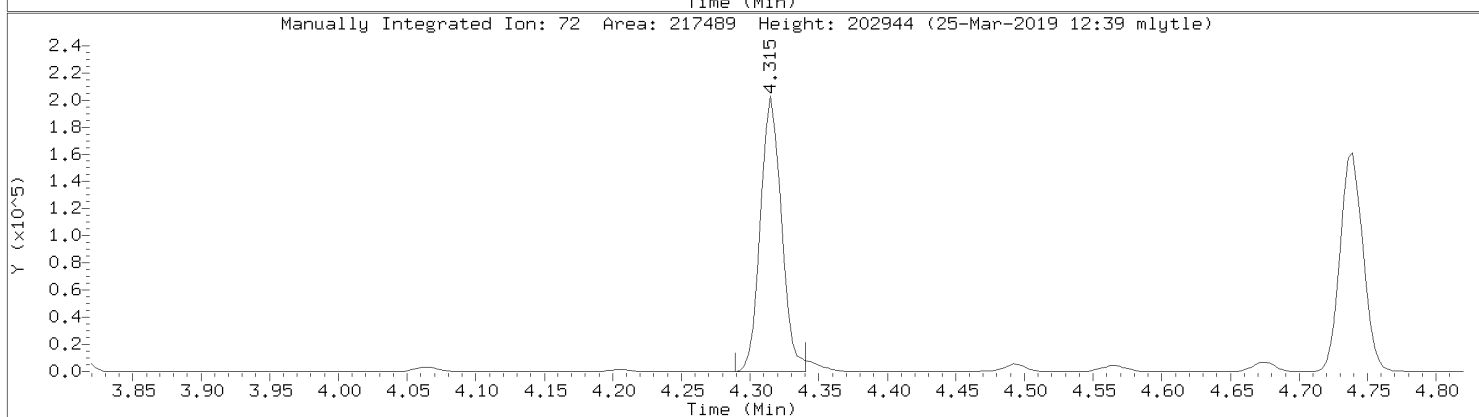
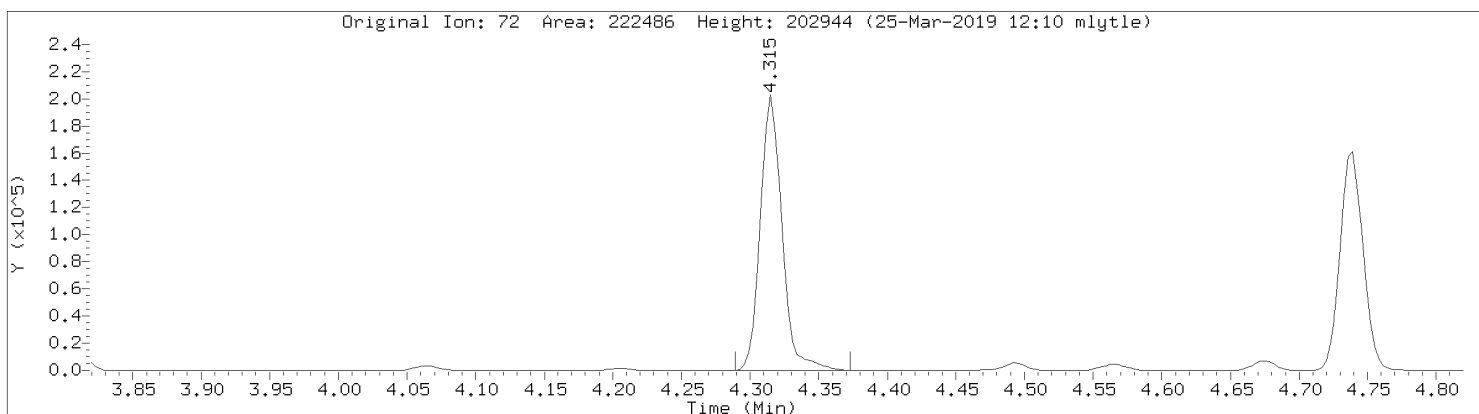
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Injection Date: 25-MAR-2019 08:22
Instrument: 10airH.i
Lab Sample ID: CAL7

Compound: Acetone
CAS Number: 67-64-1



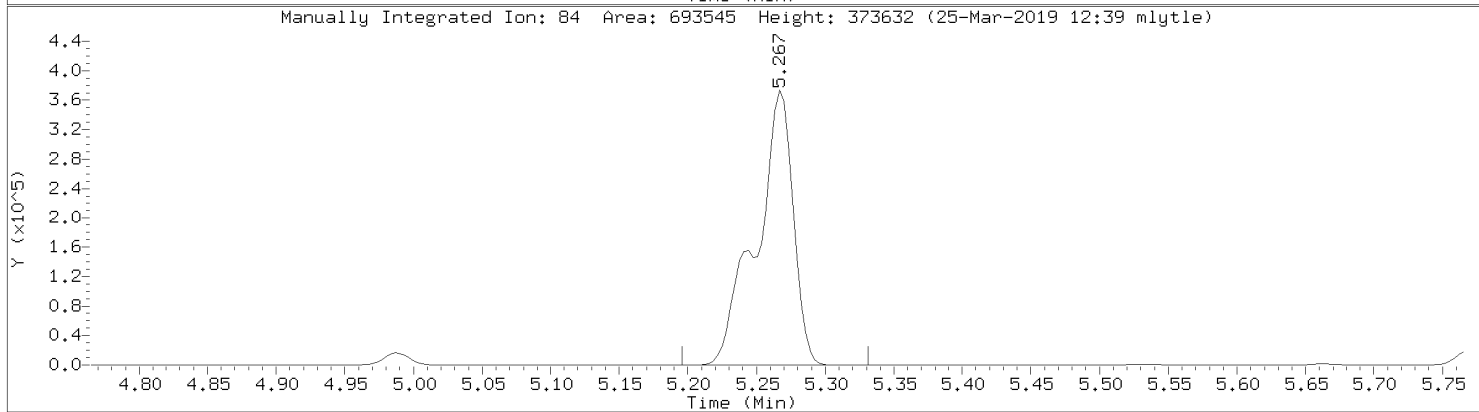
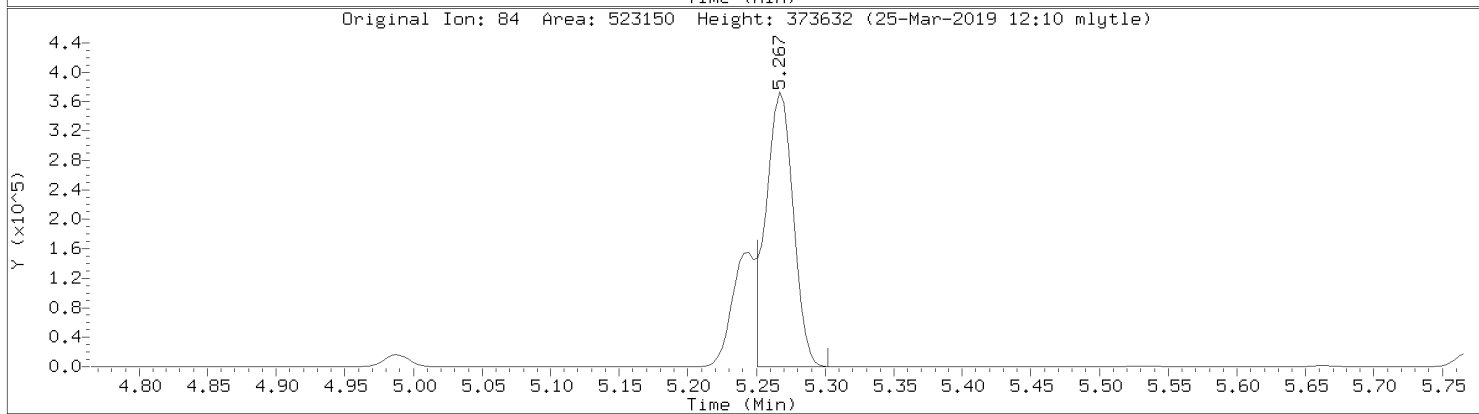
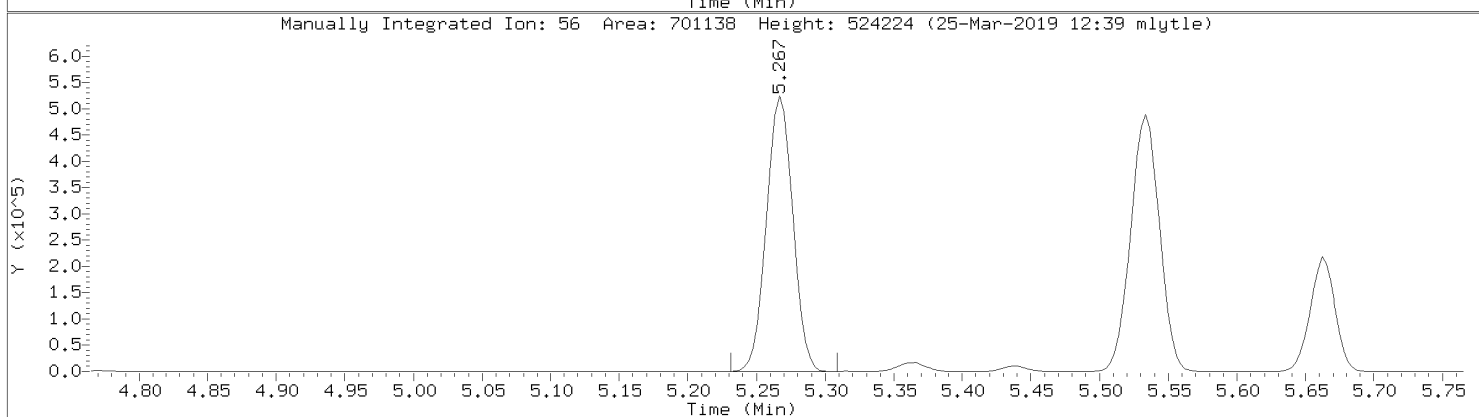
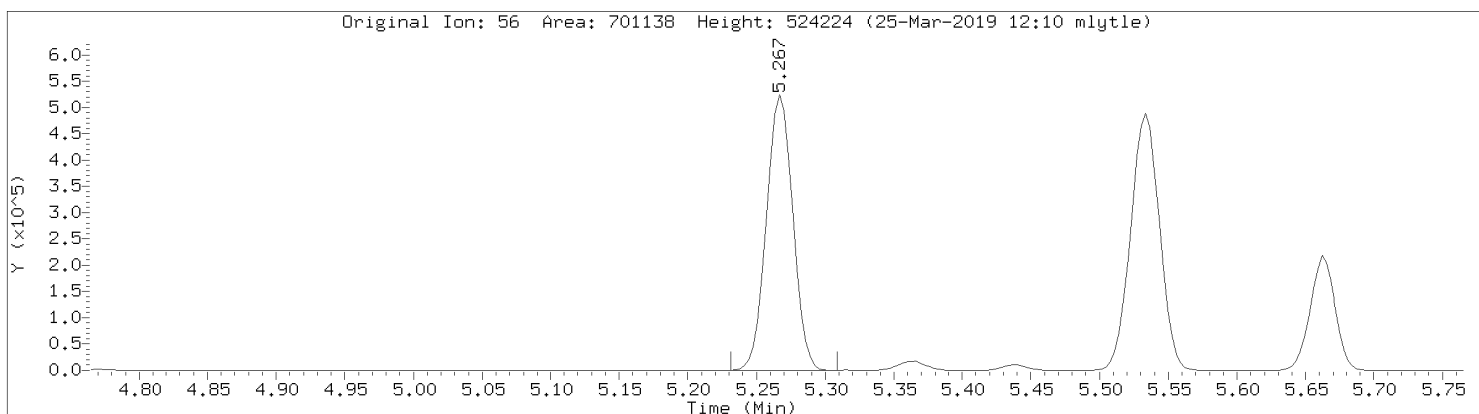
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Injection Date: 25-MAR-2019 08:22
Instrument: 10airH.i
Lab Sample ID: CAL7

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3

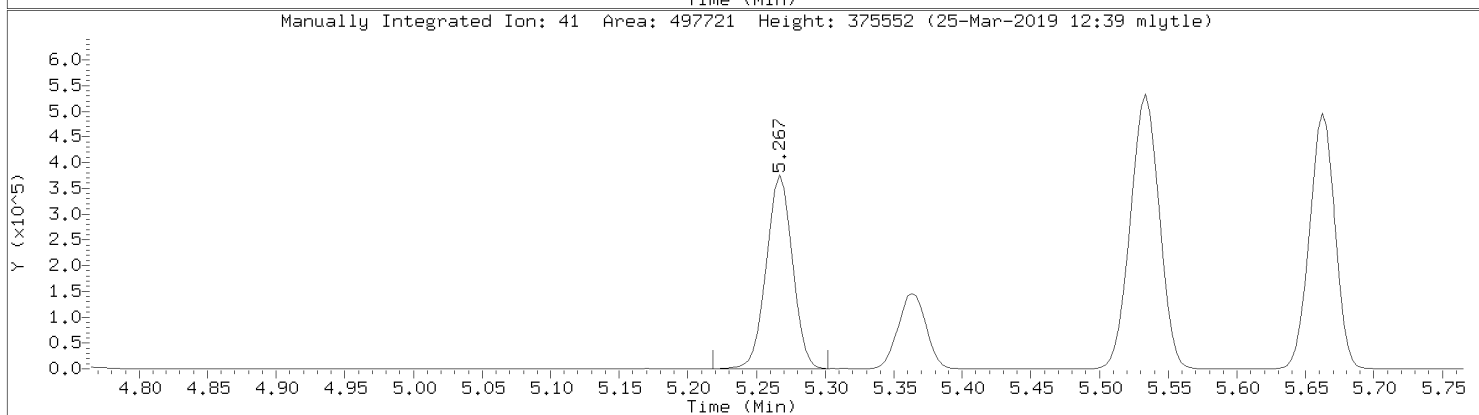
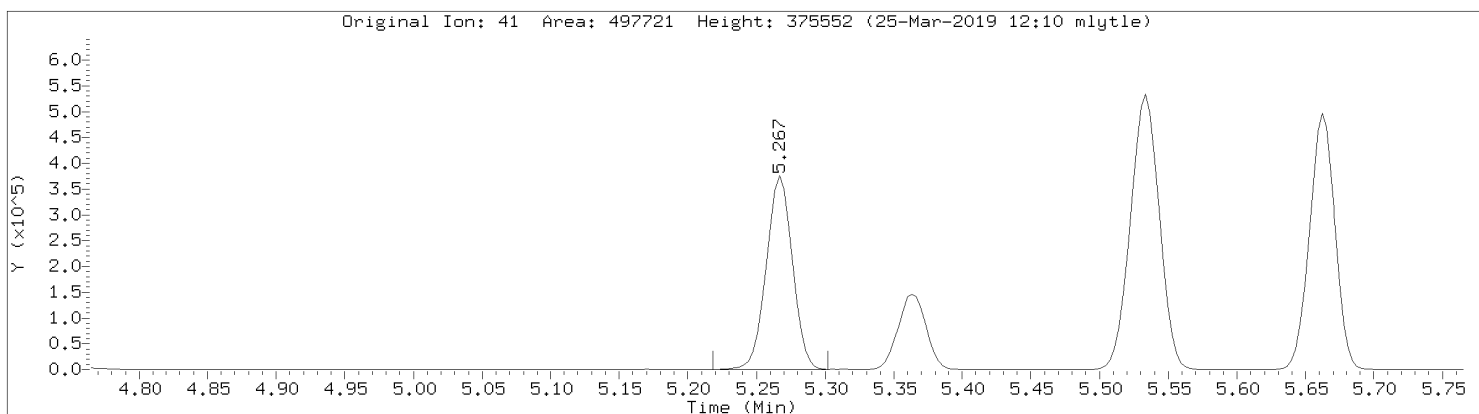


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Injection Date: 25-MAR-2019 08:22
Instrument: 10airH.i
Lab Sample ID: CAL7

Compound: Cyclohexane
CAS Number: 110-82-7

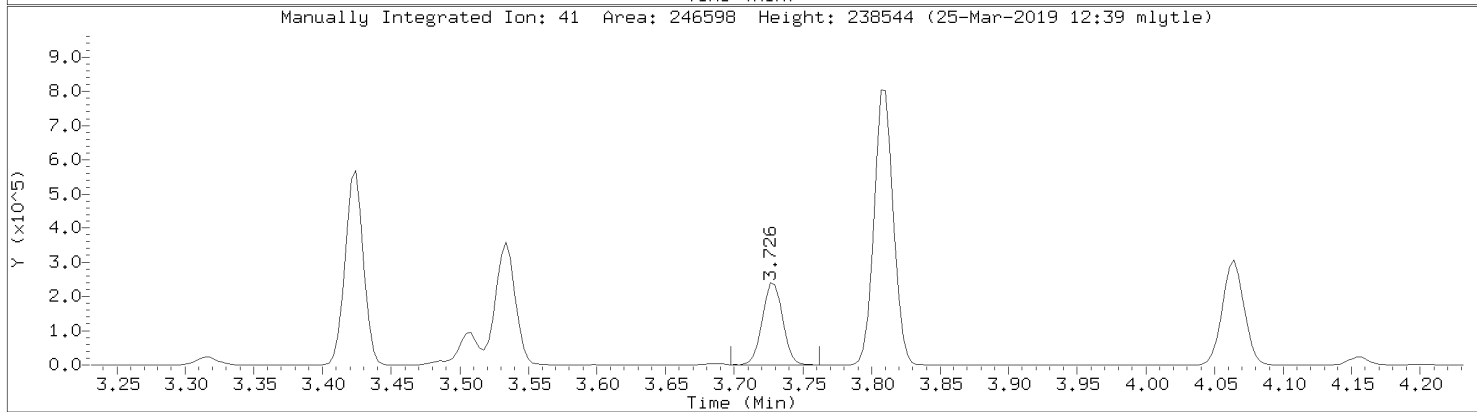
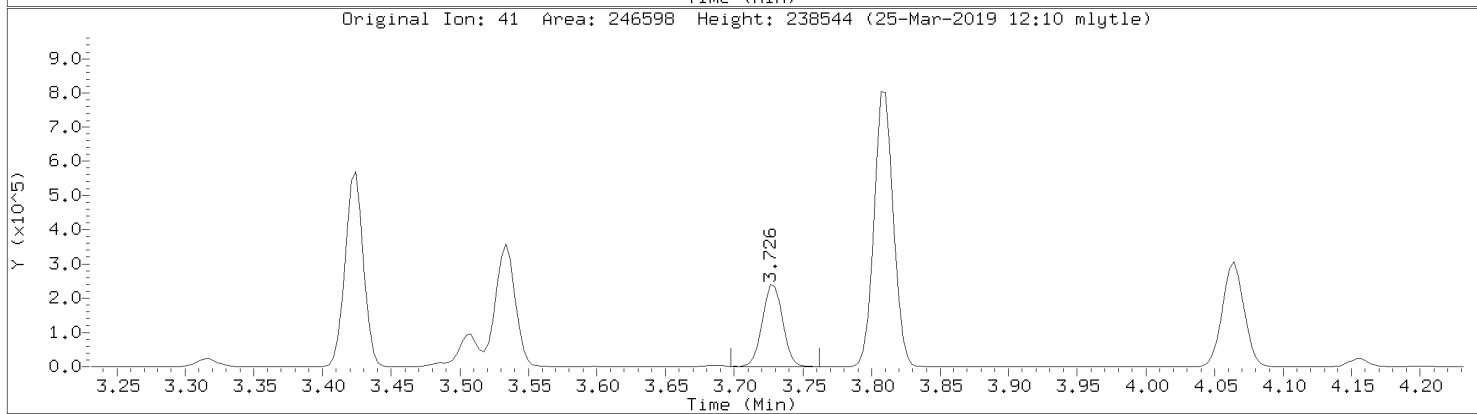
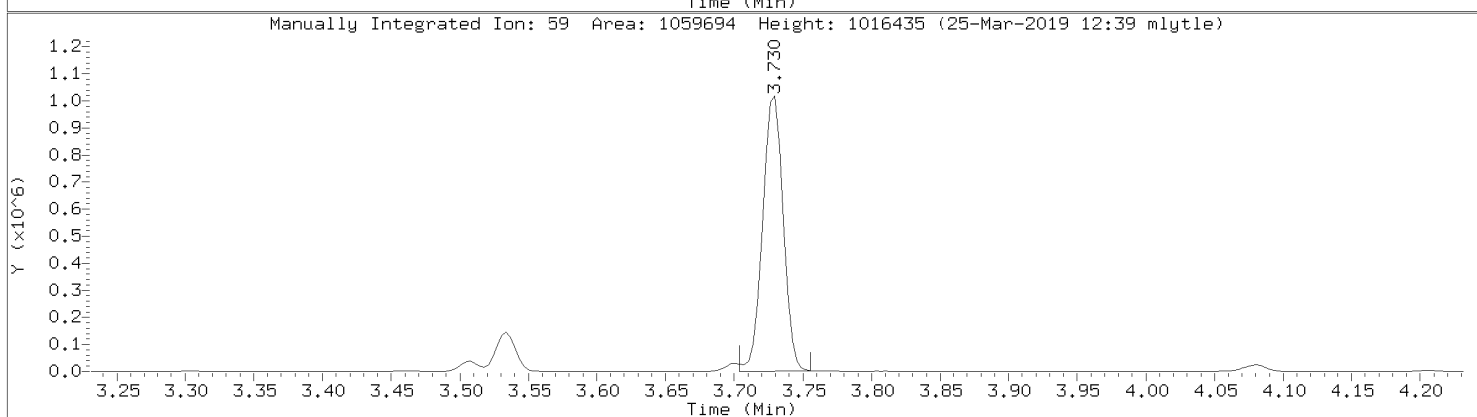
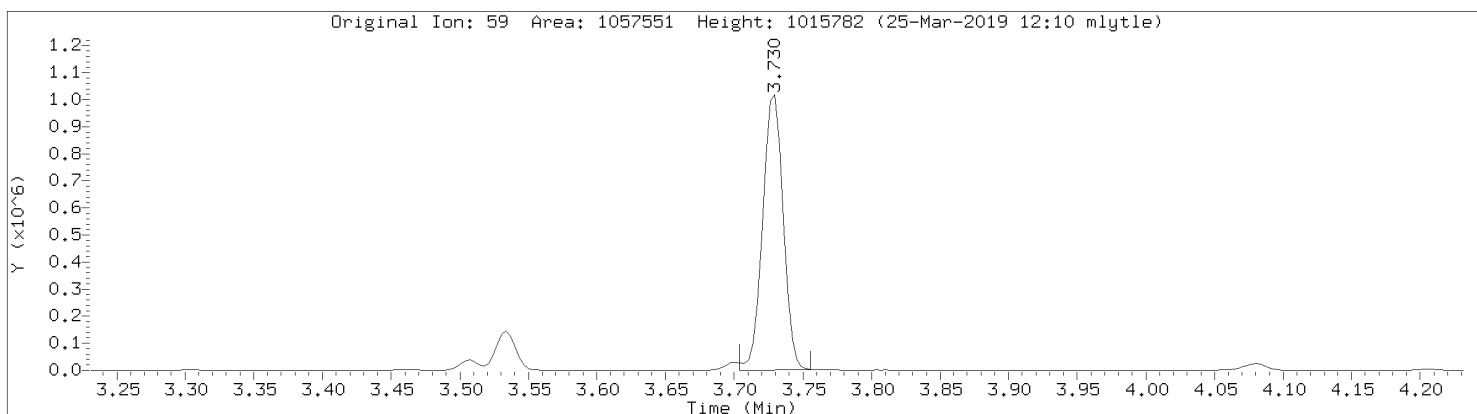


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Injection Date: 25-MAR-2019 08:22
Instrument: 10airH.i
Lab Sample ID: CAL7



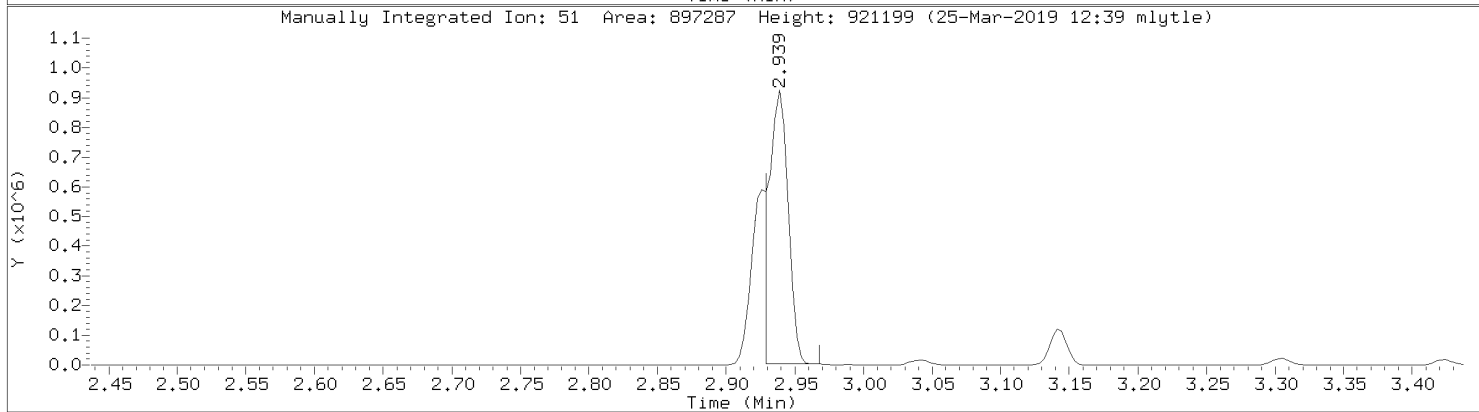
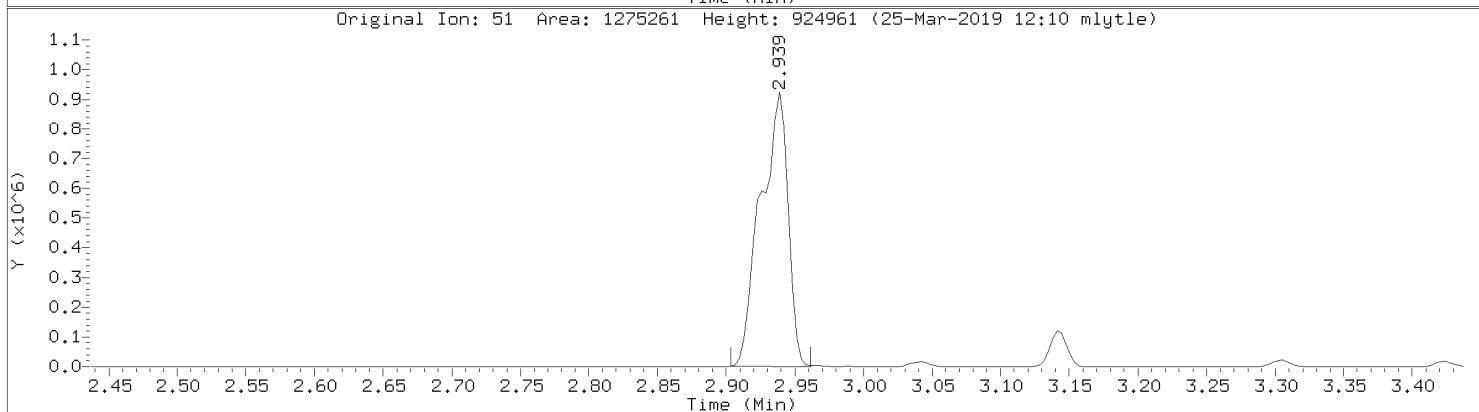
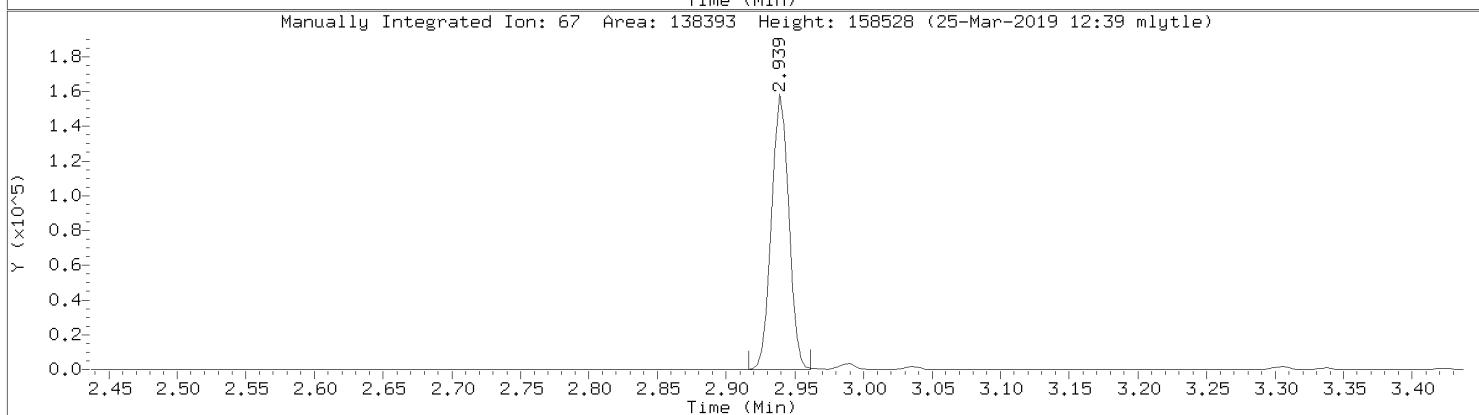
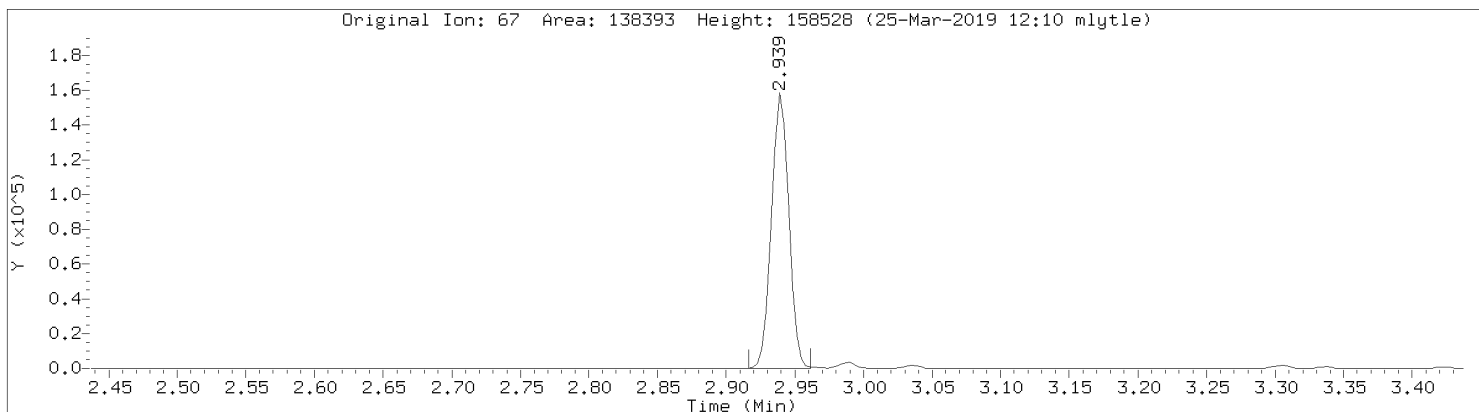
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Injection Date: 25-MAR-2019 08:22
Instrument: 10airH.i
Lab Sample ID: CAL7

Compound: Tert Butyl Alcohol (TBA)
CAS Number: 75-65-0

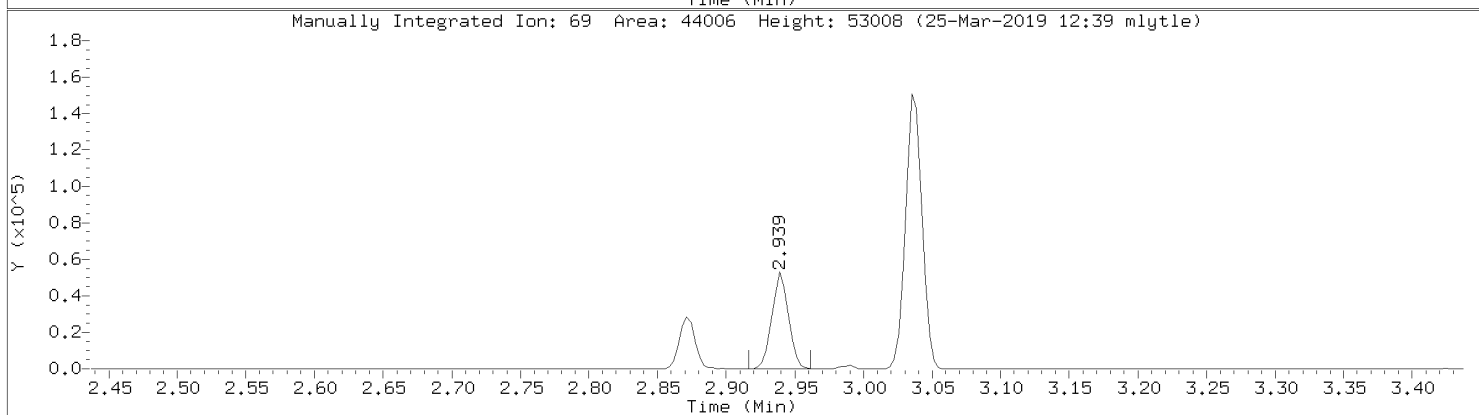
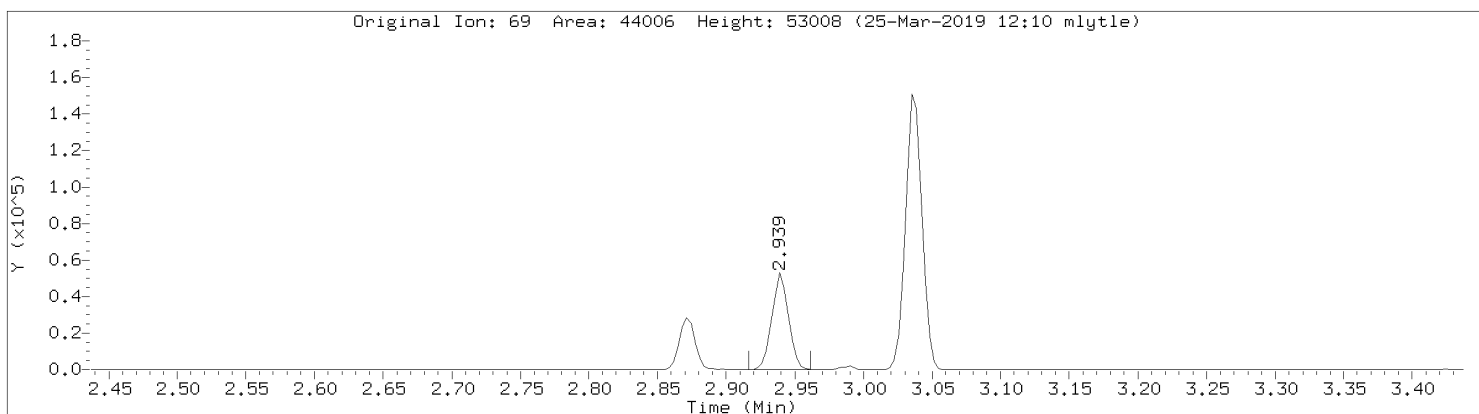


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Injection Date: 25-MAR-2019 08:22
Instrument: 10airH.i
Lab Sample ID: CAL7

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

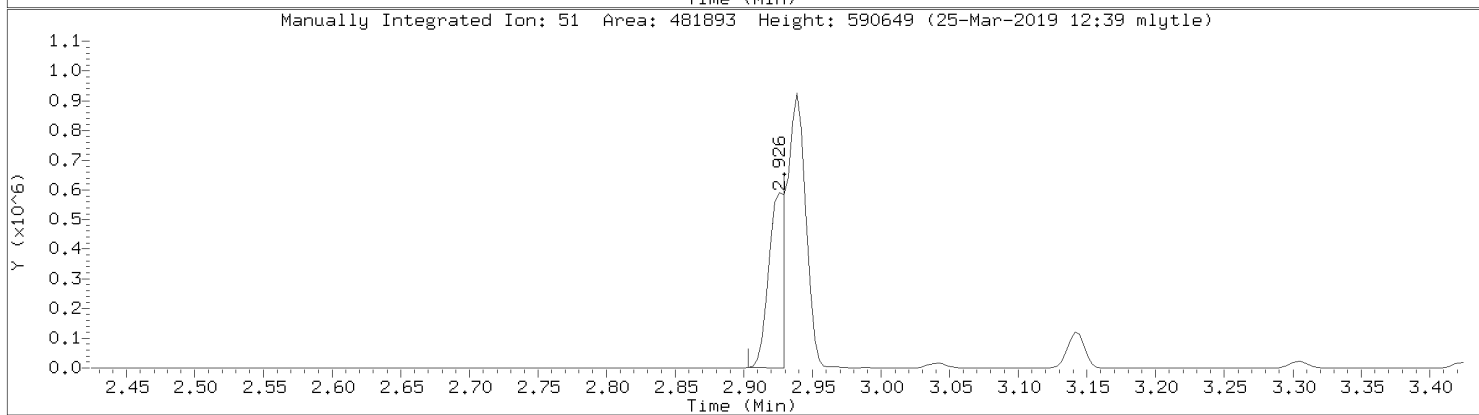
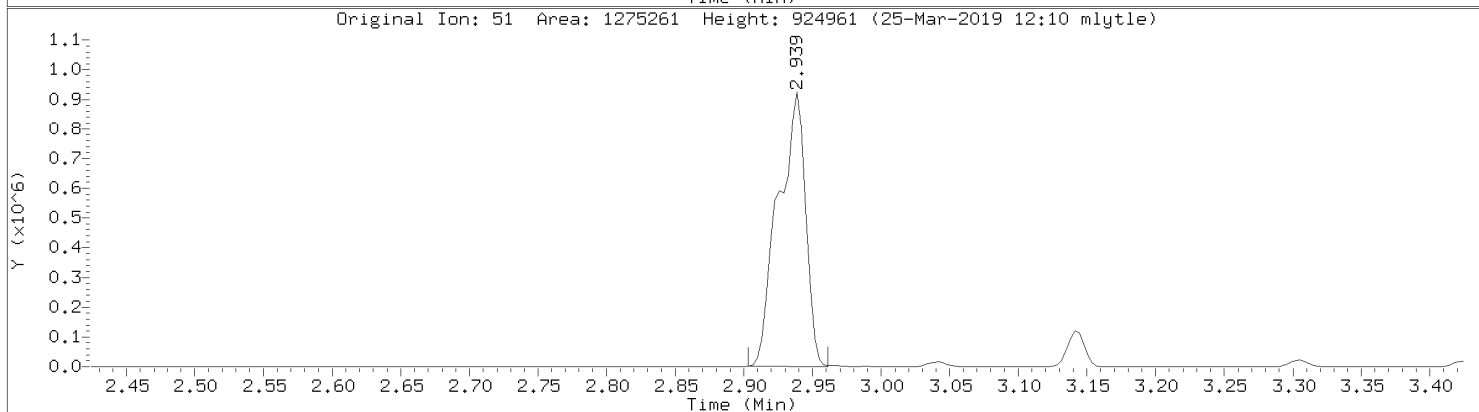
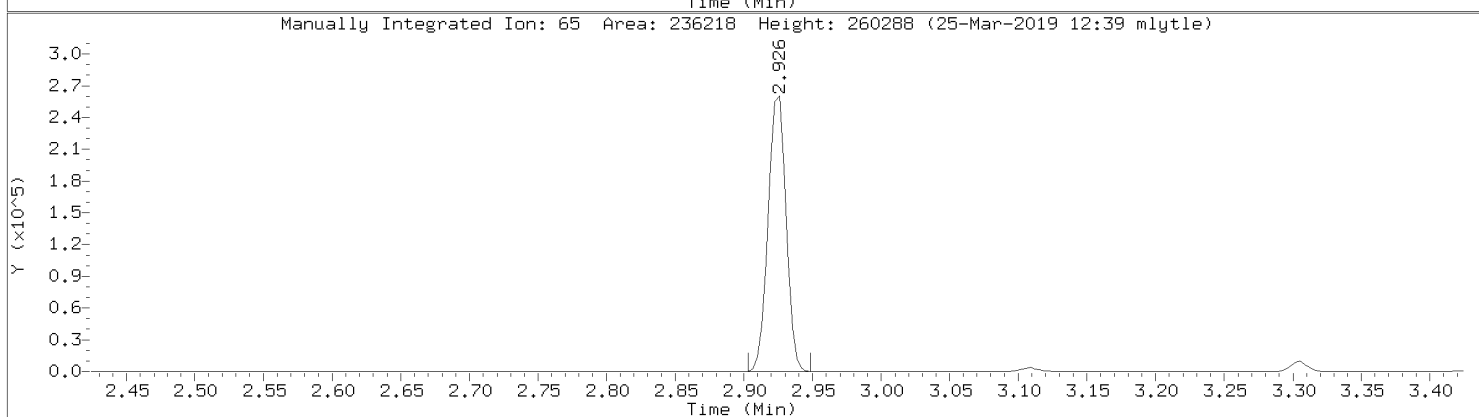
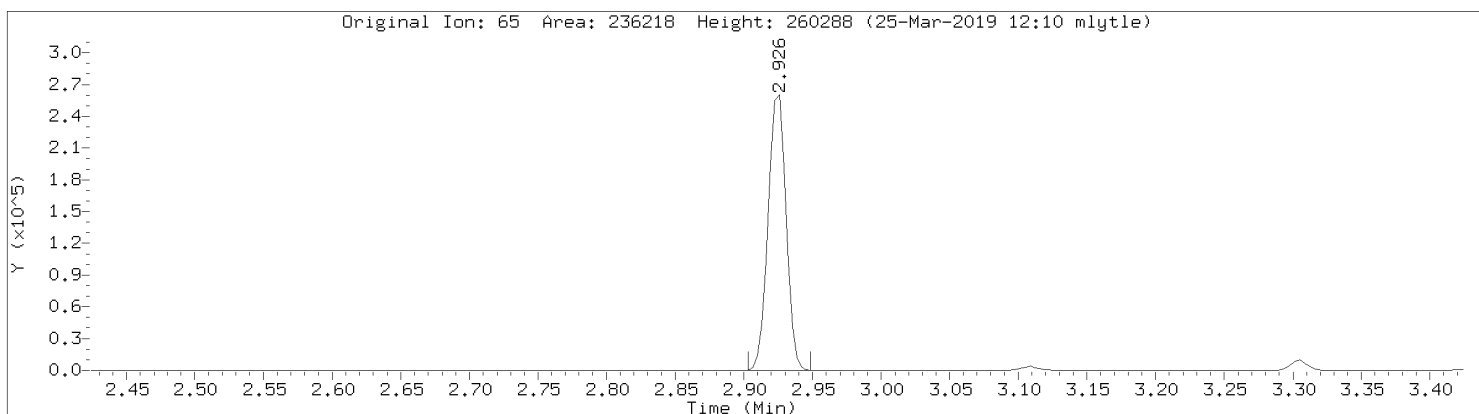


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Lab Sample ID: CAL7

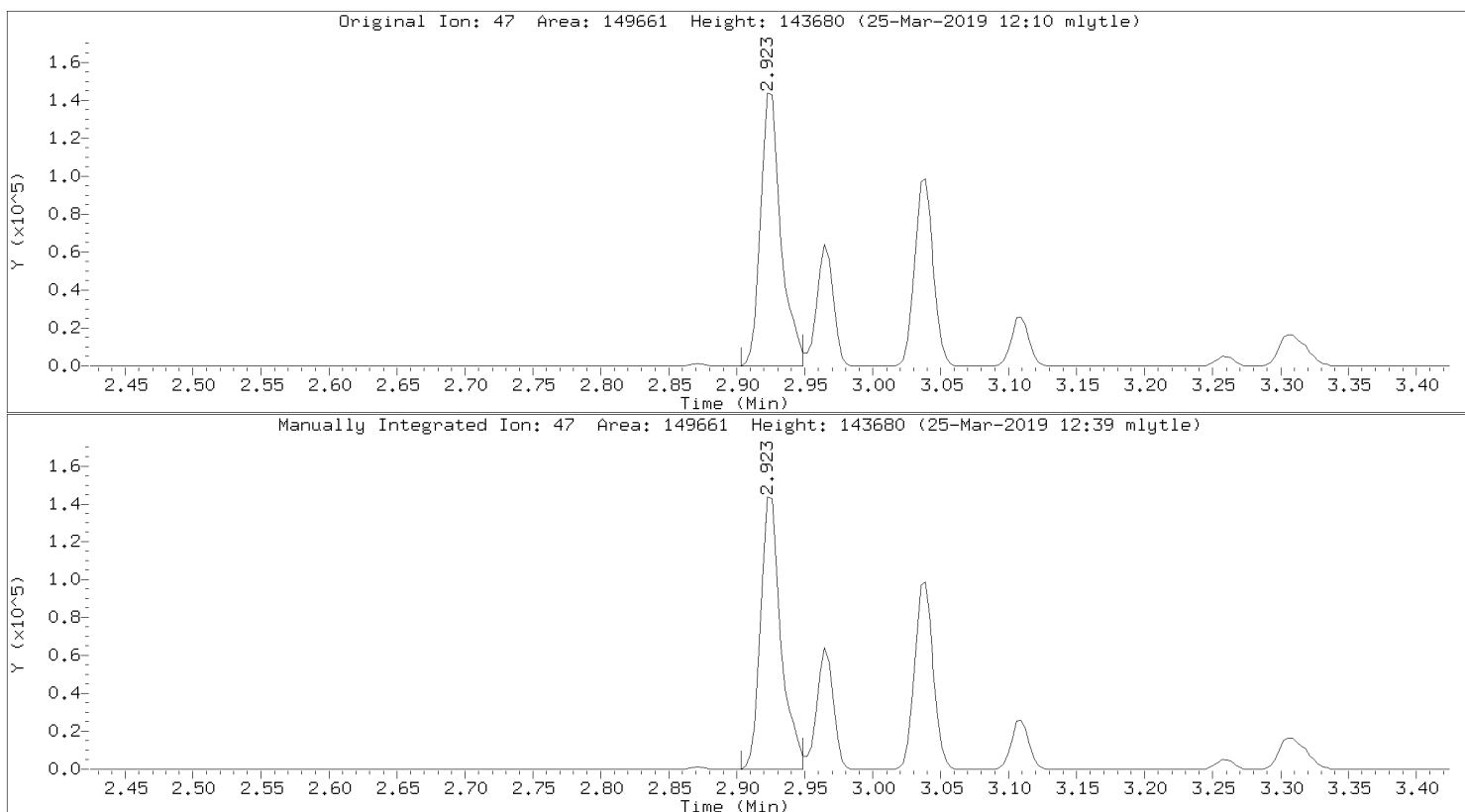


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Injection Date: 25-MAR-2019 08:22
Instrument: 10airH.i
Lab Sample ID: CAL7

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6



Data File: \\192.168.10.12\chem\10airH.i\032519.b\08406.D
Injection Date: 25-MAR-2019 08:22
Instrument: 10airH.i
Lab Sample ID: CAL7



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airH.i\032519.b\08407.D
 Lab Smp Id: CAL6
 Inj Date : 25-MAR-2019 08:48
 Operator : MJL Inst ID: 10airH.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Meth Date : 25-Mar-2019 12:39 10airH.i Quant Type: ISTD
 Cal Date : 25-MAR-2019 08:22 Cal File: 08406.D
 Als bottle: 7 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 1,1-Difluoroethane	65		2.922	2.922	(0.538)	171633	20.0000	18.3 (QM)
2 Chlorodifluoromethane	67		2.938	2.938	(0.541)	98319	20.0000	18.8 (QM)
3 Propylene	41		2.942	2.942	(0.541)	259804	20.0000	18.6
4 Dichlorodifluoromethane	85		2.964	2.964	(0.546)	857062	20.0000	17.3
5 Dichlorotetrafluoroethane	85		3.035	3.035	(0.559)	786194	20.0000	17.1
6 Chloromethane	50		3.038	3.038	(0.559)	373508	20.0000	17.1
7 Vinyl chloride	62		3.106	3.106	(0.572)	295568	20.0000	17.5
8 1,3-Butadiene	54		3.141	3.141	(0.578)	229683	20.0000	18.3
9 Bromomethane	94		3.257	3.257	(0.599)	271811	20.0000	17.4
10 Chloroethane	64		3.302	3.302	(0.608)	140600	20.0000	17.7
11 Ethanol	45		3.308	3.308	(0.609)	702391	100.000	86.4
12 Vinyl Bromide	106		3.408	3.408	(0.627)	257296	20.0000	18.0
13 Isopentane	43		3.421	3.421	(0.630)	365695	20.0000	16.7
14 Freon 123	83		3.456	3.456	(0.636)	664765	20.0000	17.6
15 Trichlorofluoromethane	101		3.482	3.482	(0.641)	826255	20.0000	17.2
16 Acrolein	56		3.482	3.482	(0.641)	321415	50.0000	46.6
17 Acetone	43		3.501	3.501	(0.644)	2787259	100.000	76.7 (M)
18 Isopropyl Alcohol	45		3.527	3.527	(0.649)	2983509	100.000	83.1
19 1,1-Dichloroethene	61		3.697	3.697	(0.680)	550154	20.0000	17.5
20 Acrylonitrile	53		3.704	3.704	(0.682)	604852	50.0000	44.8
21 Tert Butyl Alcohol (TBA)	59		3.720	3.720	(0.685)	769749	20.0000	17.9
22 Methyl Acetate	43		3.726	3.726	(0.686)	808256	20.0000	18.0
23 Freon 113	101		3.729	3.729	(0.686)	611341	20.0000	17.8

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Allyl Chloride	76		3.807	3.807	(0.701)	144430	20.0000	19.8	
25 Methylene chloride	49		3.807	3.807	(0.701)	2115151	100.0000	85.0	
26 Carbon Disulfide	76		3.913	3.913	(0.720)	862818	20.0000	17.8	
27 Methyl Tert Butyl Ether	73		4.061	4.061	(0.747)	878442	20.0000	18.0	
28 trans-1,2-dichloroethene	96		4.077	4.077	(0.750)	290125	20.0000	18.0	
29 Vinyl Acetate	43		4.151	4.151	(0.764)	1107214	20.0000	19.1	
30 1,1-Dichloroethane	63		4.202	4.202	(0.773)	606712	20.0000	17.9	
31 Methyl Ethyl Ketone	72		4.311	4.311	(0.793)	154271	20.0000	15.3 (QM)	
32 Di-isopropyl Ether	45		4.337	4.337	(0.798)	1247934	20.0000	17.9	
33 n-Hexane	57		4.347	4.347	(0.800)	482692	20.0000	17.8	
34 Ethyl Acetate	43		4.469	4.469	(0.822)	903310	20.0000	18.5	
35 cis-1,2-Dichloroethene	96		4.488	4.488	(0.826)	308067	20.0000	18.0	
36 Ethyl Tert-Butyl Ether	59		4.562	4.562	(0.840)	1126218	20.0000	18.2	
37 Chloroform	83		4.672	4.672	(0.860)	734133	20.0000	17.5	
38 Tetrahydrofuran	42		4.733	4.733	(0.871)	389039	20.0000	17.9	
39 1,1,1-Trichloroethane	97		4.983	4.983	(0.917)	745654	20.0000	17.9	
40 1,2-Dichloroethane	62		5.064	5.064	(0.932)	553594	20.0000	18.1	
41 Benzene	78		5.221	5.221	(0.961)	923686	20.0000	17.6	
42 Carbon tetrachloride	117		5.237	5.237	(0.964)	766287	20.0000	18.8	
43 Cyclohexane	56		5.263	5.263	(0.969)	506182	20.0000	18.2 (M)	
44 Tert Amyl Methyl Ether	73		5.360	5.360	(0.986)	935592	20.0000	18.1	
* 45 1,4-Difluorobenzene	114		5.434	5.434	(1.000)	444473	10.0000		
46 2,2,4-Trimethylpentane	57		5.530	5.530	(1.018)	1569066	20.0000	17.4	
47 Heptane	43		5.659	5.659	(1.041)	688751	20.0000	18.3	
48 Trichloroethene	130		5.765	5.765	(1.061)	376190	20.0000	18.0	
49 1,2-Dichloropropane	63		5.810	5.810	(1.069)	390916	20.0000	18.4	
50 Methyl methacrylate	69		5.803	5.803	(1.068)	364435	20.0000	18.4	
51 1,4-Dioxane	88		5.852	5.852	(1.077)	496250	50.0000	44.9	
52 Bromodichloromethane	83		5.971	5.971	(1.099)	838163	20.0000	18.3	
53 Methylcyclohexane	98		6.237	6.237	(1.148)	219248	20.0000	19.2	
54 Methyl Isobutyl Ketone	43		6.308	6.308	(1.161)	979228	20.0000	18.4	
55 cis-1,3-Dichloropropene	75		6.395	6.395	(1.177)	658071	20.0000	18.7	
56 trans-1,3-Dichloropropene	75		6.839	6.839	(1.259)	593589	20.0000	19.3	
57 Toluene	91		6.938	6.938	(1.277)	1088334	20.0000	17.6	
58 1,1,2-Trichloroethane	97		7.064	7.064	(1.300)	394355	20.0000	18.4	
59 Methyl Butyl Ketone	43		7.154	7.154	(0.849)	932207	20.0000	18.2	
60 n-Octane	43		7.363	7.363	(0.874)	964393	20.0000	18.0	
61 Dibromochloromethane	129		7.597	7.597	(0.902)	758747	20.0000	18.9	
62 Tetrachloroethene	166		7.684	7.684	(0.912)	439166	20.0000	18.1	
63 1,2-Dibromoethane	107		7.800	7.800	(0.926)	658625	20.0000	18.3	
* 64 Chlorobenzene - d5	117		8.427	8.427	(1.000)	396289	10.0000		
65 Chlorobenzene	112		8.469	8.469	(1.005)	823169	20.0000	17.9	
66 Ethyl Benzene	91		8.691	8.691	(1.031)	1477513	20.0000	17.3	
67 m&p-Xylene	91		8.871	8.871	(1.053)	2371912	40.0000	35.0 (M)	
68 n-Nonane	43		9.215	9.215	(1.093)	1045560	20.0000	18.5	
69 Styrene	104		9.276	9.276	(1.101)	819940	20.0000	19.2 (M)	
70 o-Xylene	91		9.311	9.311	(1.105)	1217518	20.0000	17.6	
71 Bromoform	173		9.382	9.382	(1.113)	622575	20.0000	21.4	
72 1,1,2,2-Tetrachloroethane	83		9.723	9.723	(1.154)	928493	20.0000	19.0	
73 Isopropylbenzene	105		9.861	9.861	(1.170)	1499886	20.0000	18.5	
74 N-Propylbenzene	91		10.430	10.430	(1.238)	2055323	20.0000	19.1	
75 4-Ethyltoluene	105		10.613	10.613	(1.259)	1491120	20.0000	19.1	
76 1,3,5-Trimethylbenzene	105		10.687	10.687	(1.268)	1303623	20.0000	17.7	
77 n-Decane	57		11.041	11.041	(2.032)	1024874	20.0000	19.5	

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
78 Tert-Butyl Benzene	119	11.134	11.134	(1.321)	1137696	20.0000	18.7
79 1,2,4-Trimethylbenzene	105	11.183	11.183	(1.327)	1297484	20.0000	17.3
80 Sec- Butylbenzene	105	11.440	11.440	(1.357)	1828249	20.0000	18.8
81 1,3-Dichlorobenzene	146	11.472	11.472	(1.361)	718192	20.0000	19.9
82 Benzyl Chloride	91	11.546	11.546	(1.370)	1026489	20.0000	22.7
83 1,4-Dichlorobenzene	146	11.607	11.607	(1.377)	698791	20.0000	19.9
84 p-Isopropyltoluene	119	11.646	11.646	(1.382)	1512284	20.0000	19.0
85 1,2,3-Trimethylbenzene	105	11.662	11.662	(1.384)	1290385	20.0000	18.9
86 1,2-Dichlorobenzene	146	11.912	11.912	(1.414)	674680	20.0000	19.4
87 N-Butylbenzene	91	12.096	12.096	(1.435)	1600514	20.0000	20.1
88 1,2-Dibromo-3-Chloropropane	157	12.610	12.610	(1.496)	364370	20.0000	20.5
89 1,2,4-Trichlorobenzene	180	13.555	13.555	(1.609)	404817	20.0000	20.0
90 Naphthalene	128	13.694	13.694	(1.625)	1084491	20.0000	20.1
91 Hexachlorobutadiene	225	13.806	13.806	(1.638)	382929	20.0000	20.0

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airH.i\032519.b\08407.D
Report Date: 25-Mar-2019 12:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airH.i
Lab File ID: 08407.D
Lab Smp Id: CAL6
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
Misc Info:

Calibration Date: 25-MAR-2019
Calibration Time: 09:13

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	451734	271040	632428	444473	-1.61
64 Chlorobenzene - d	397119	238271	555967	396289	-0.21

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.43	5.10	5.76	5.43	0.00
64 Chlorobenzene - d	8.43	8.10	8.76	8.43	0.00

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

Data File: \\192.168.10.12\chem\10airH.i\032519.b\08407.D

Date : 25-MAR-2019 08:48

Client ID:

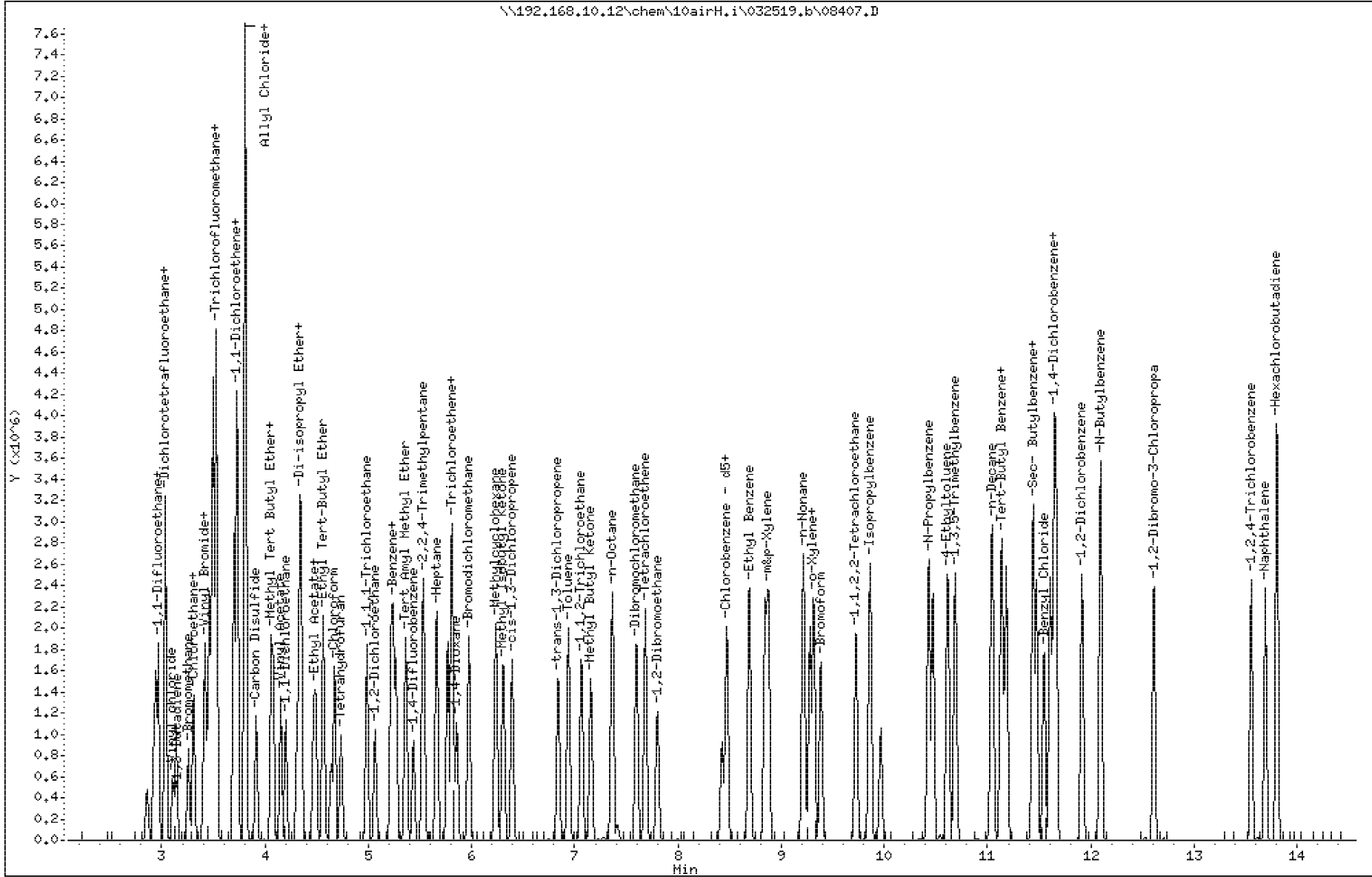
Sample Info:

Column phase: ZB-5MSplus SN338857

Instrument: 10airH.i

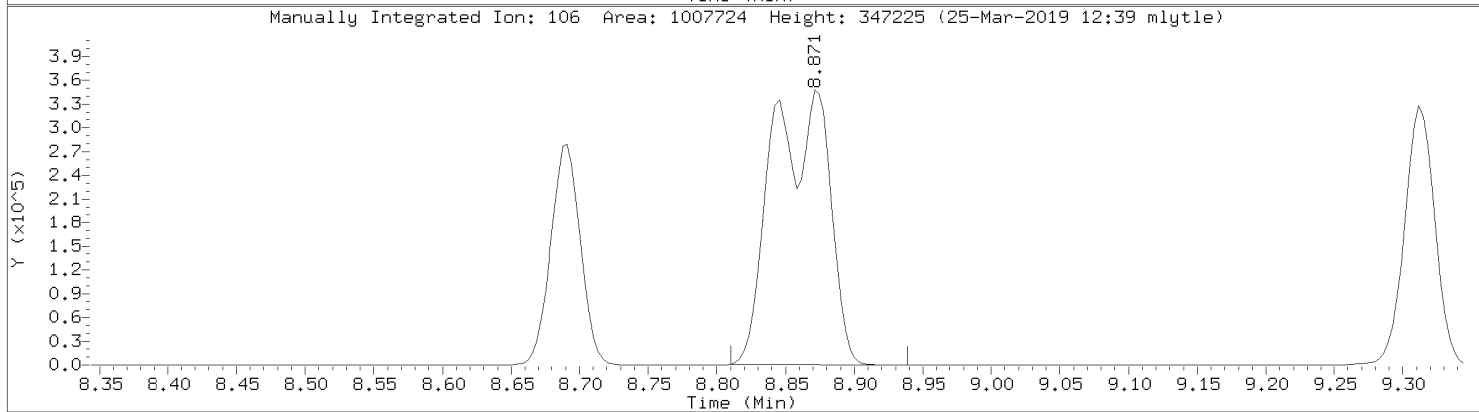
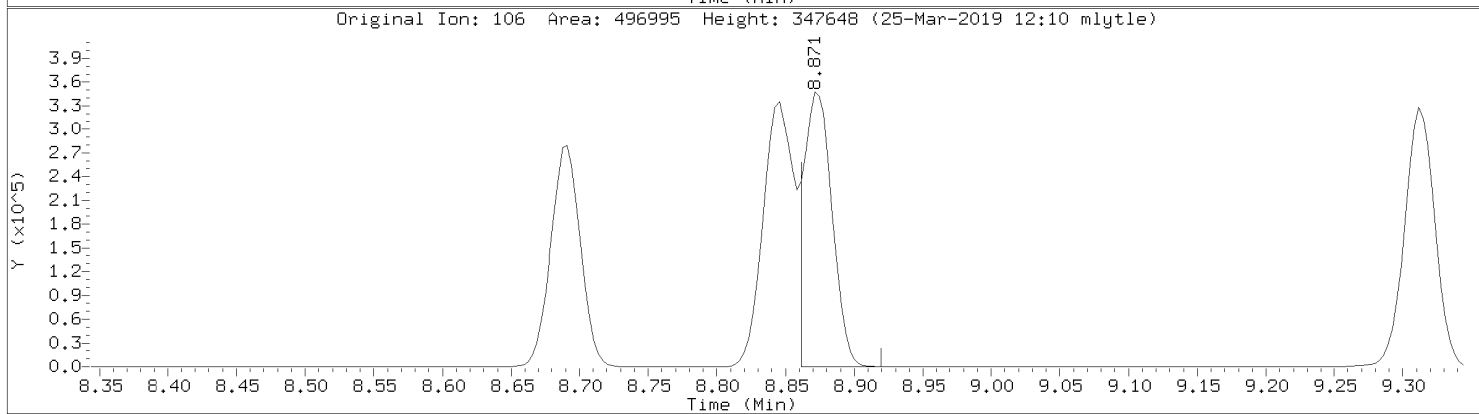
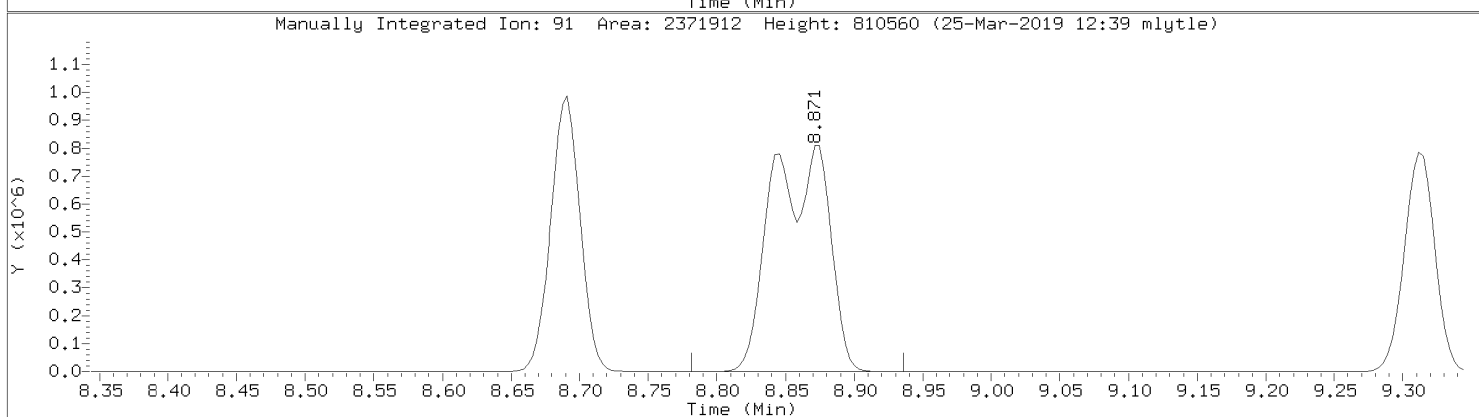
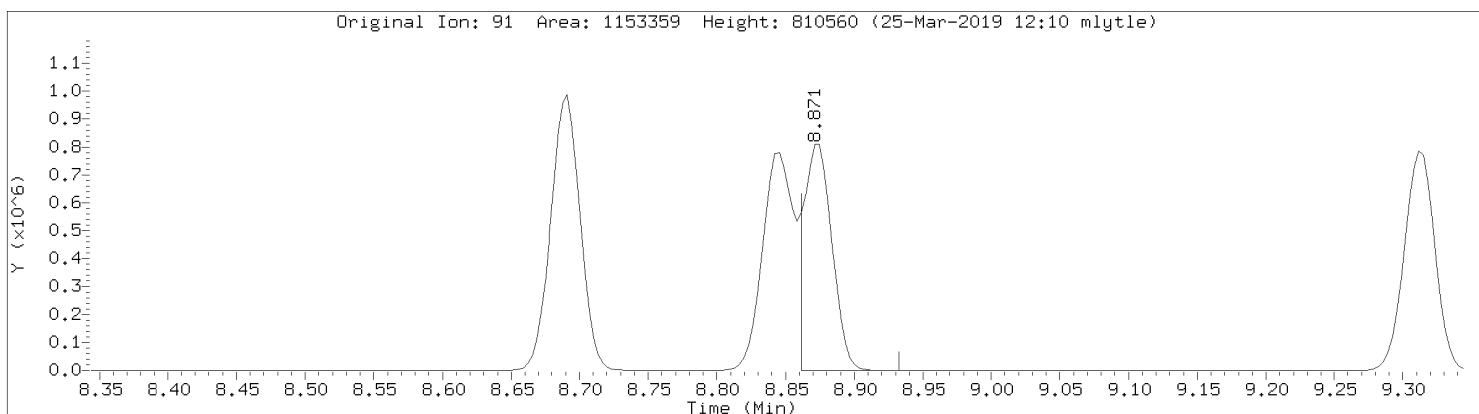
Operator: MJL

Column diameter: 0.32



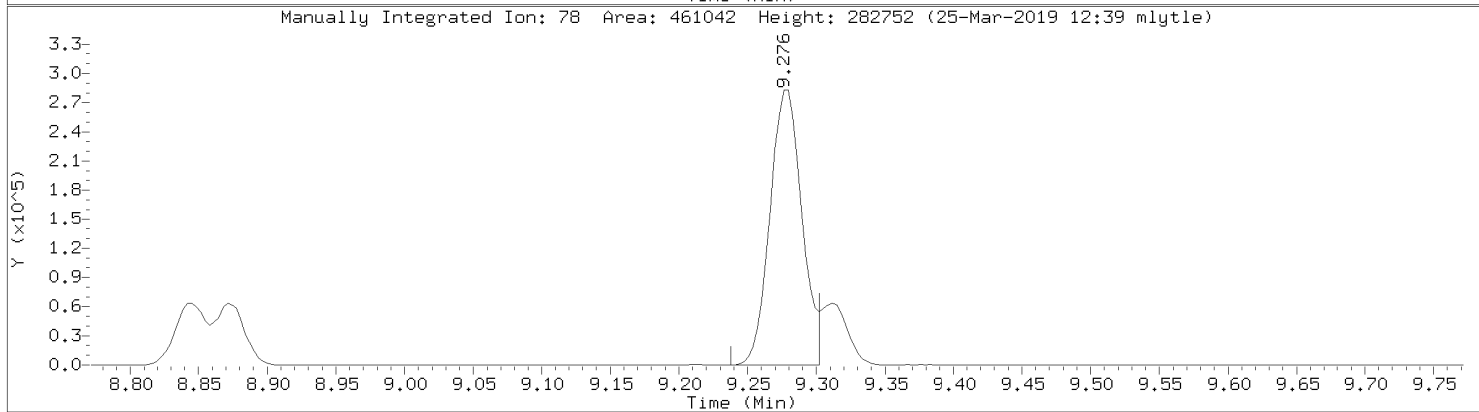
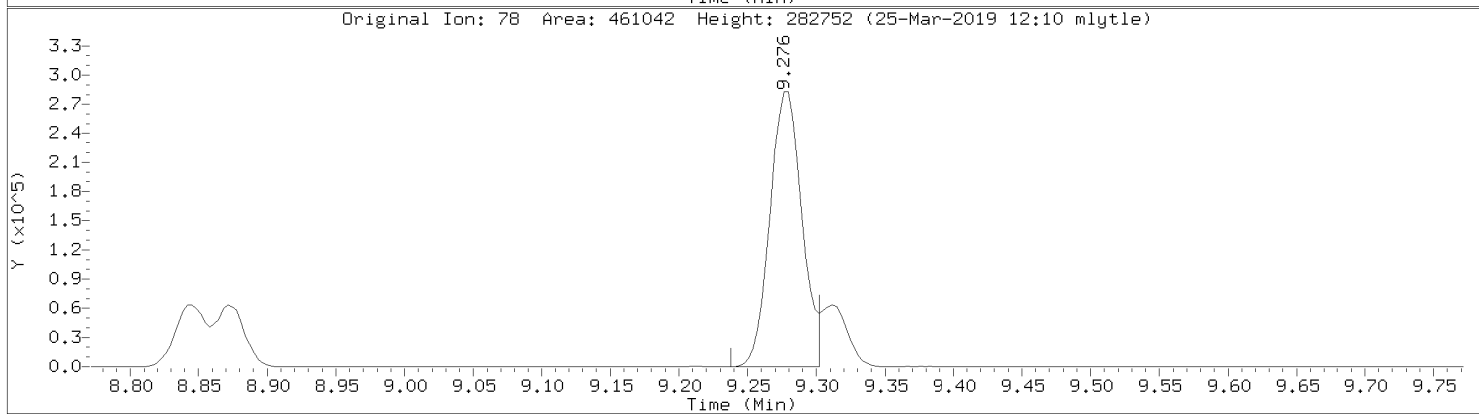
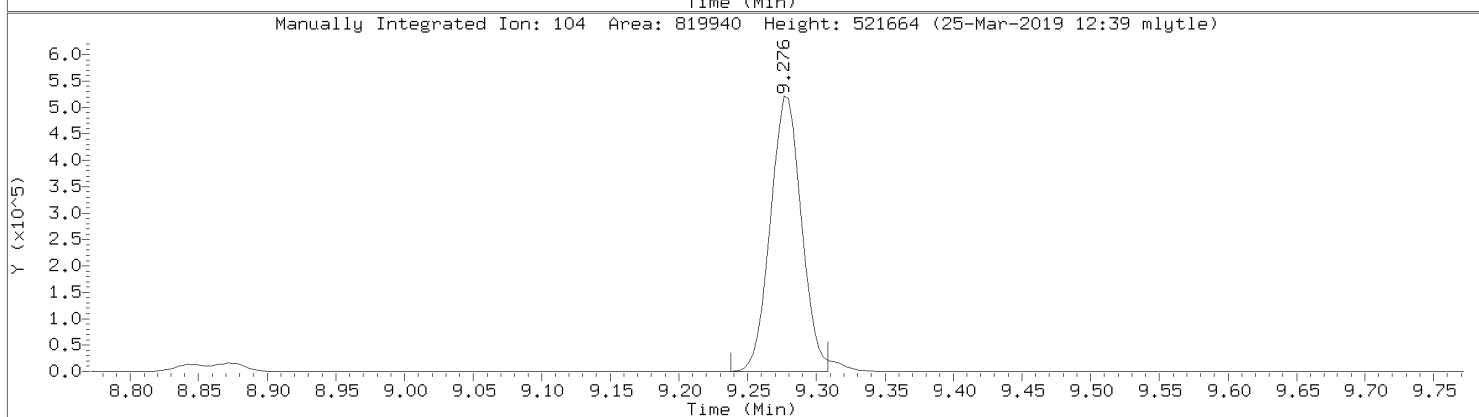
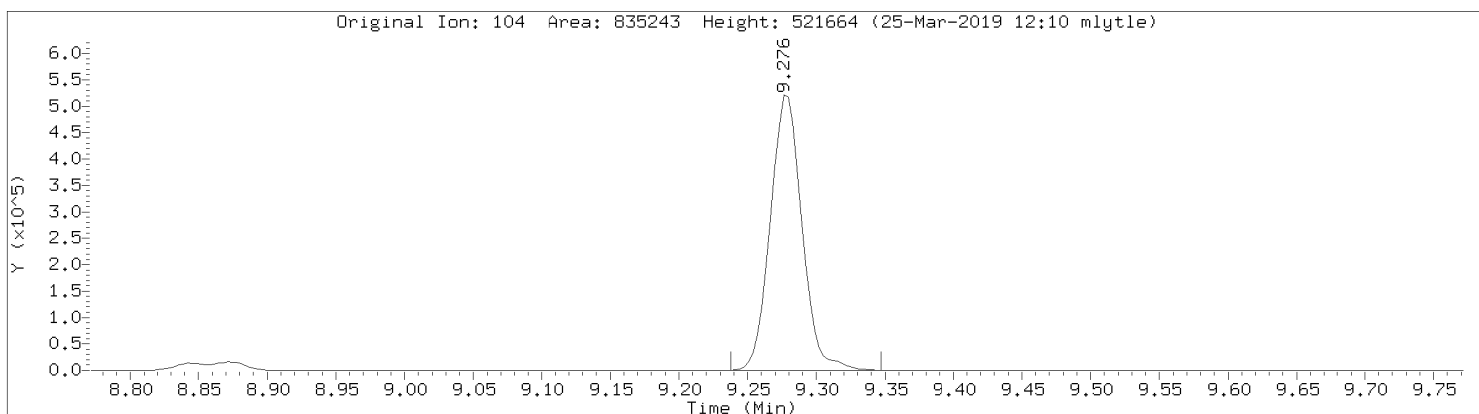
Data File: \\192.168.10.12\chem\10airH.i\032519.b\08407.D
Injection Date: 25-MAR-2019 08:48
Instrument: 10airH.i
Lab Sample ID: CAL6

Compound: m&p-Xylene
CAS Number: 7816-60-0

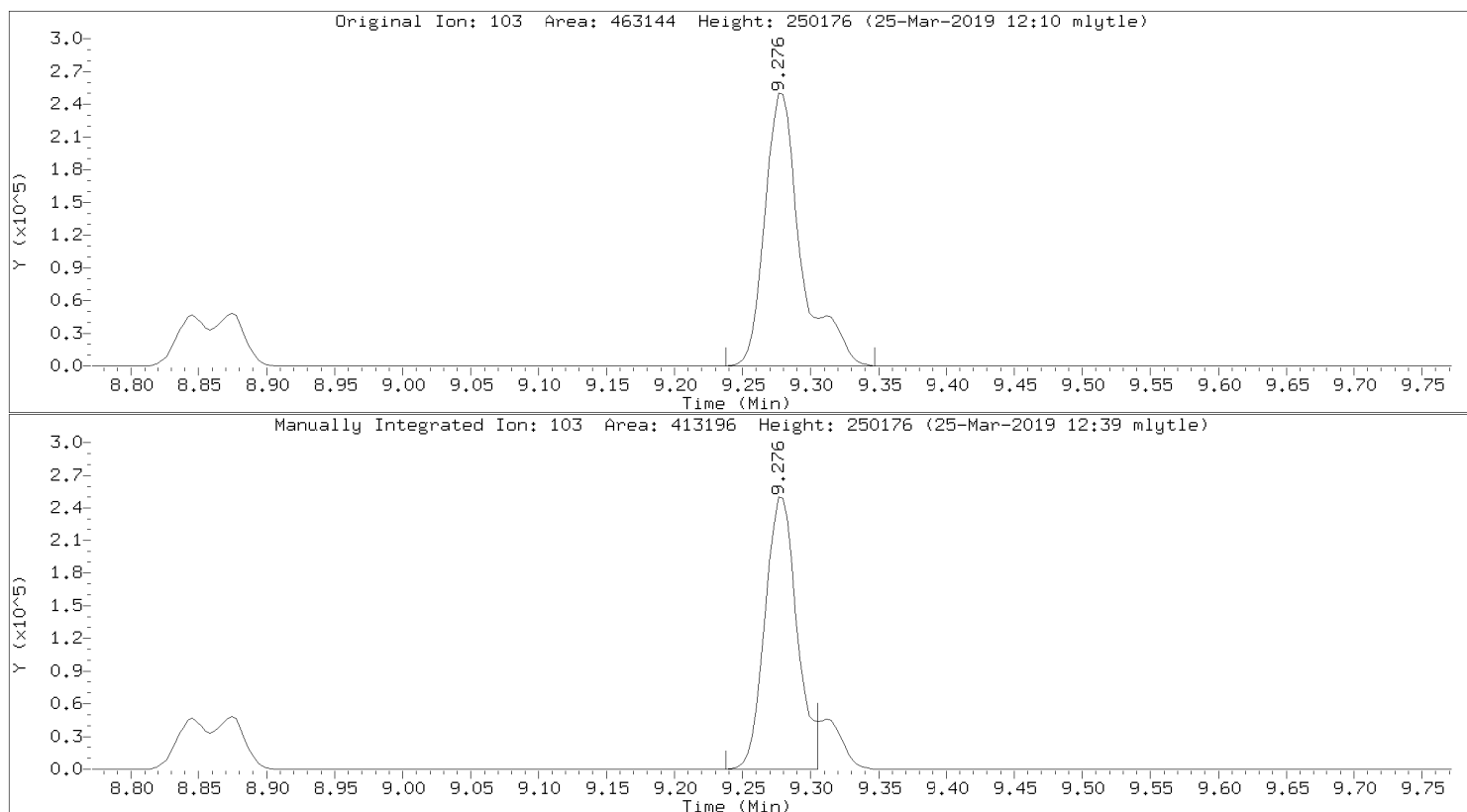


Data File: \\192.168.10.12\chem\10airH.i\032519.b\08407.D
Injection Date: 25-MAR-2019 08:48
Instrument: 10airH.i
Lab Sample ID: CAL6

Compound: Styrene
CAS Number: 100-42-5

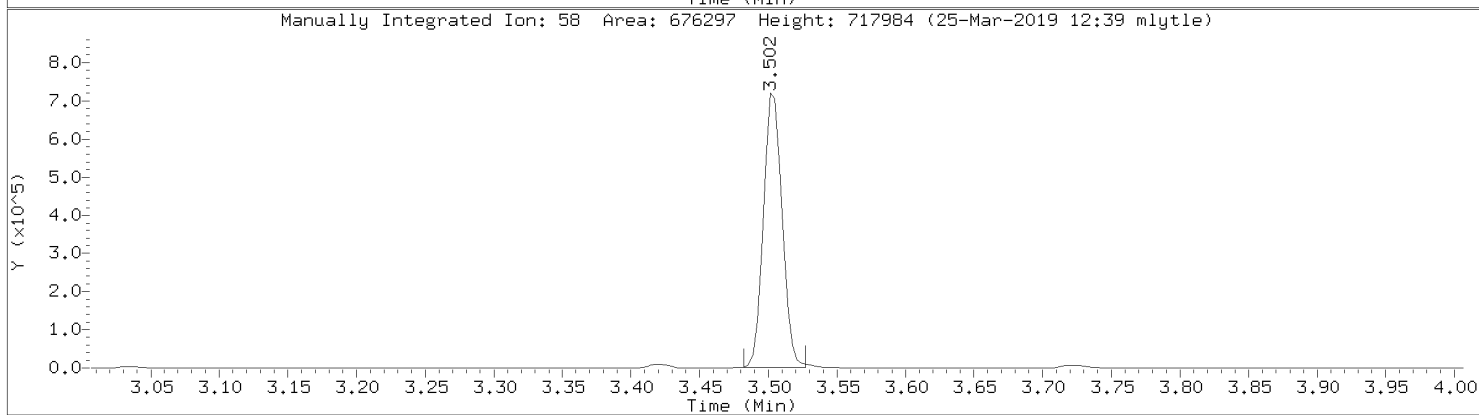
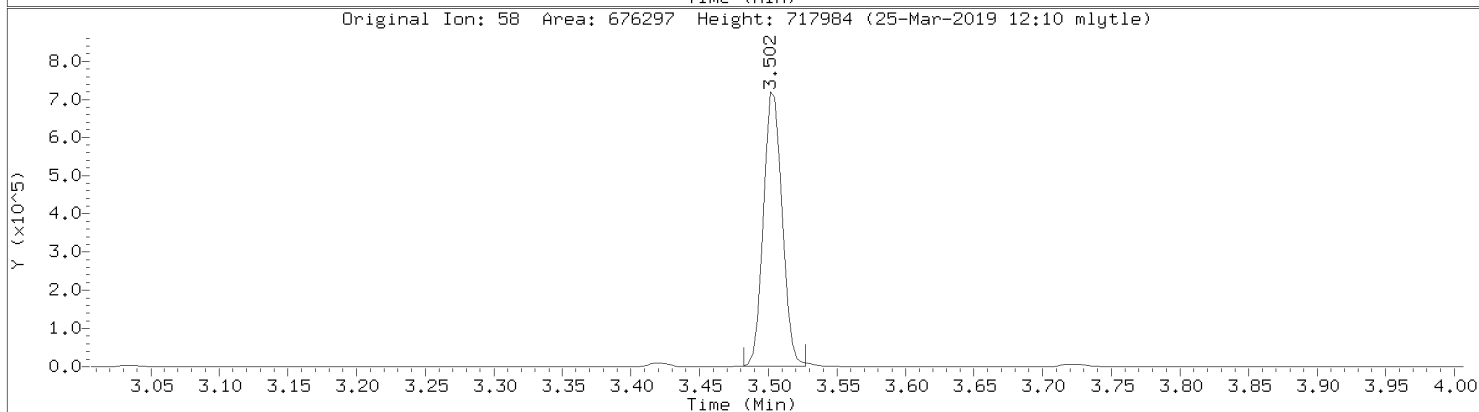
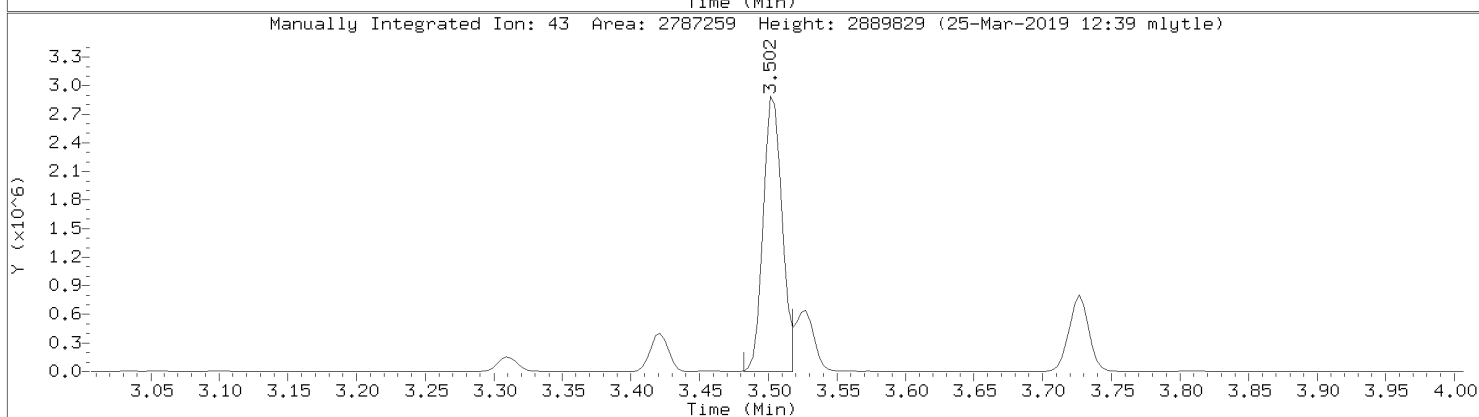
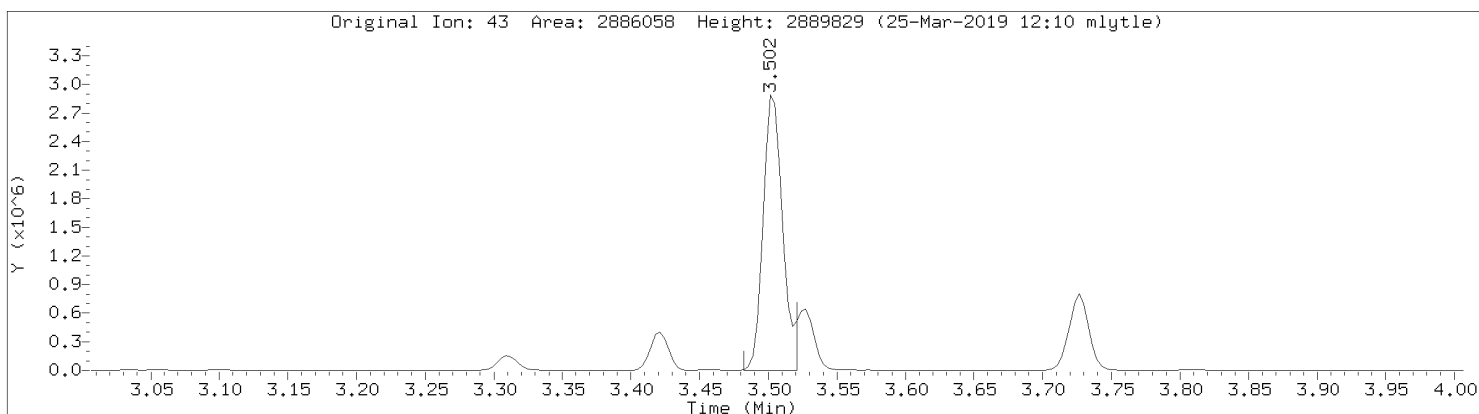


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Injection Date: 25-MAR-2019 08:48
Instrument: 10airH.i
Lab Sample ID: CAL6



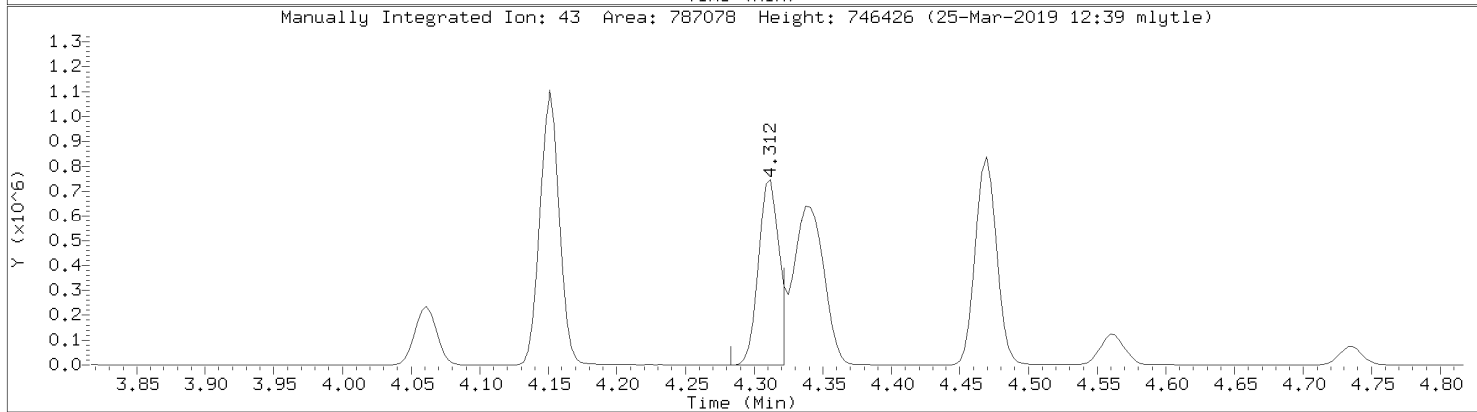
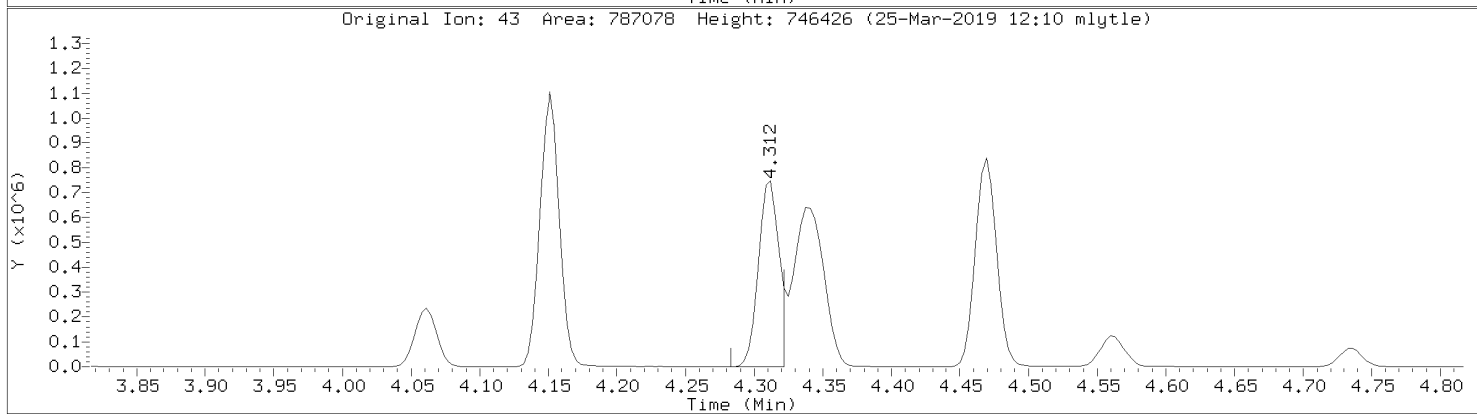
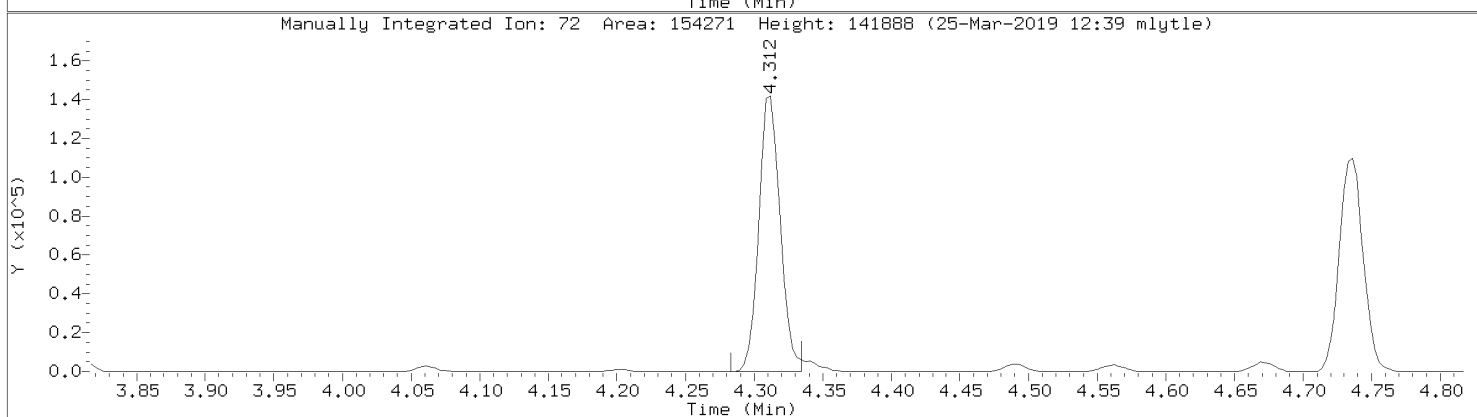
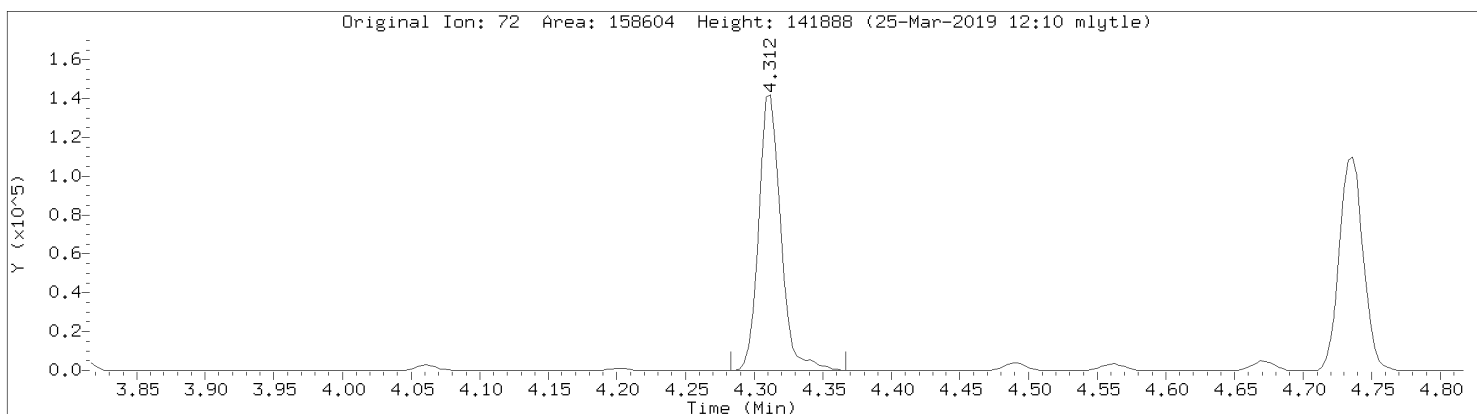
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Injection Date: 25-MAR-2019 08:48
Instrument: 10airH.i
Lab Sample ID: CAL6

Compound: Acetone
CAS Number: 67-64-1



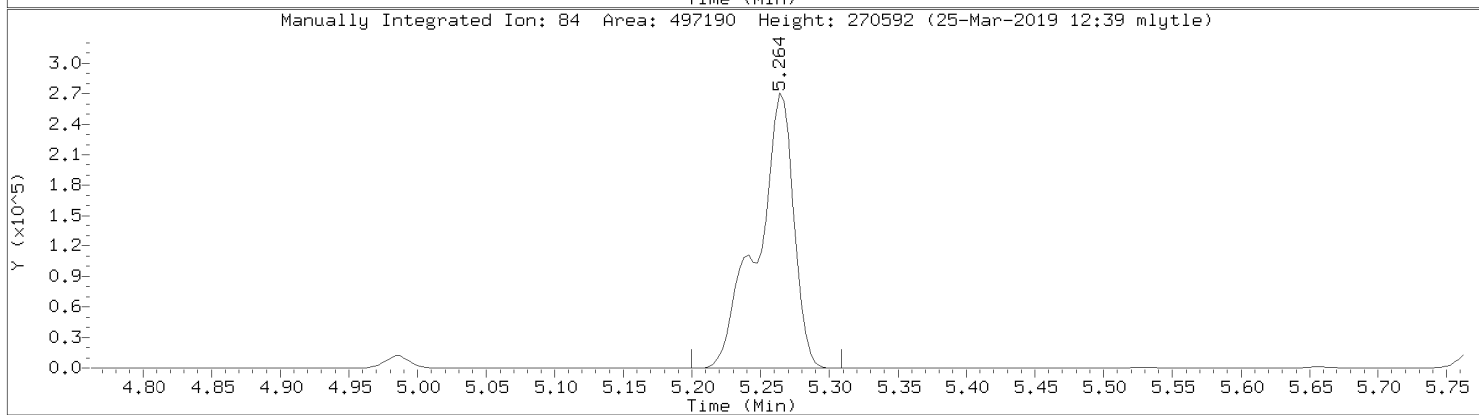
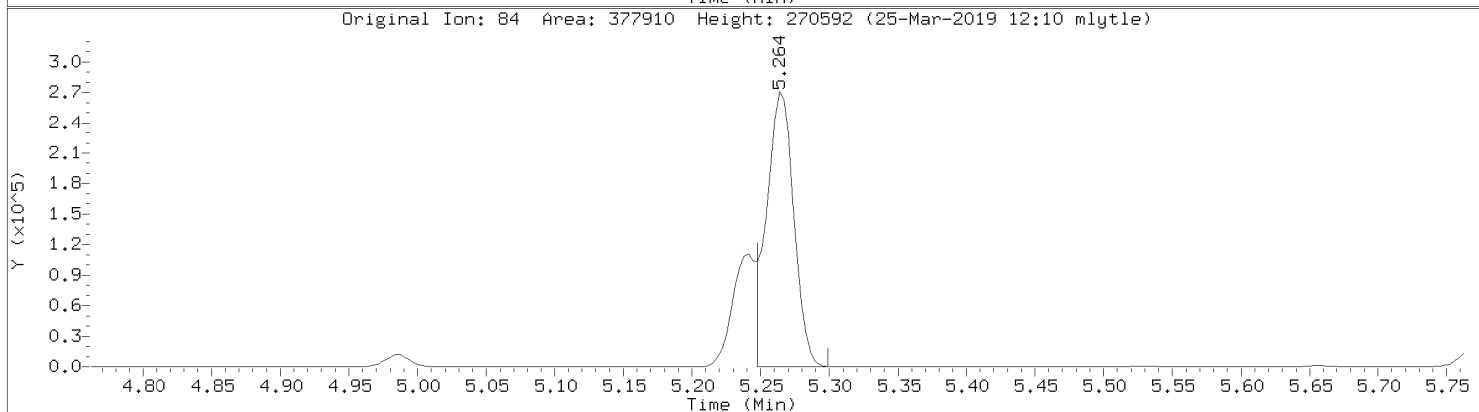
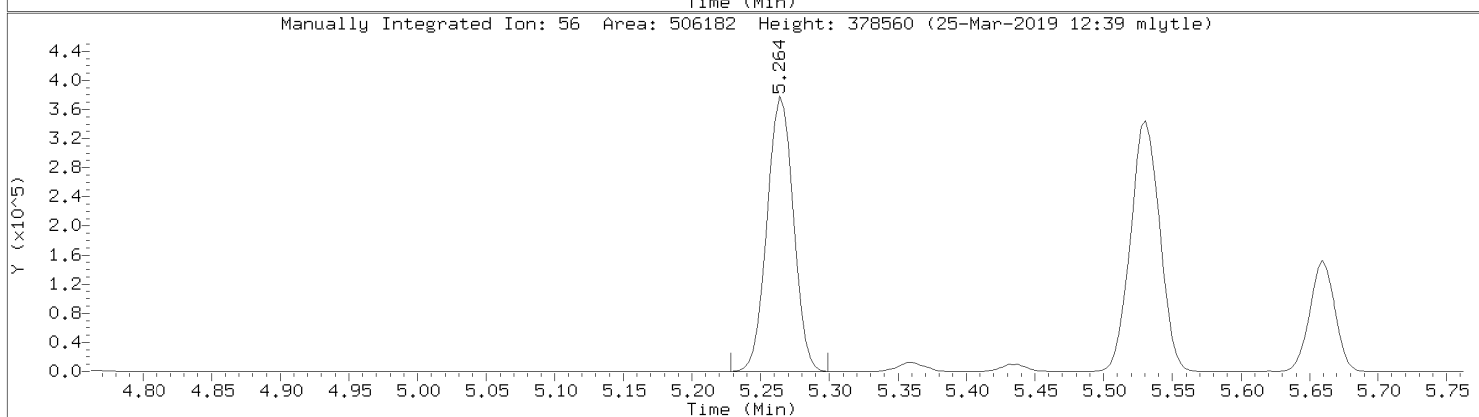
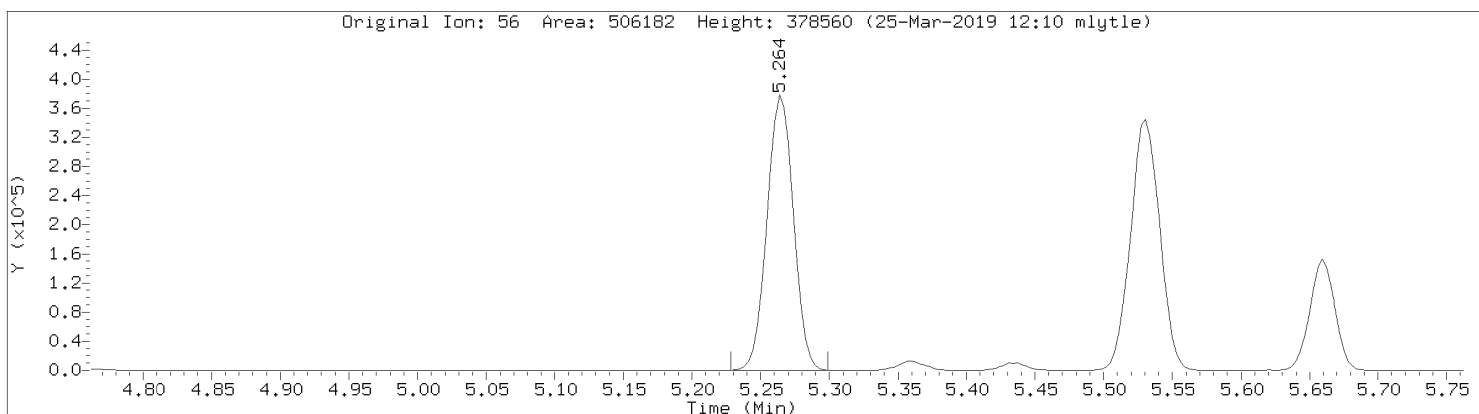
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Injection Date: 25-MAR-2019 08:48
Instrument: 10airH.i
Lab Sample ID: CAL6

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3

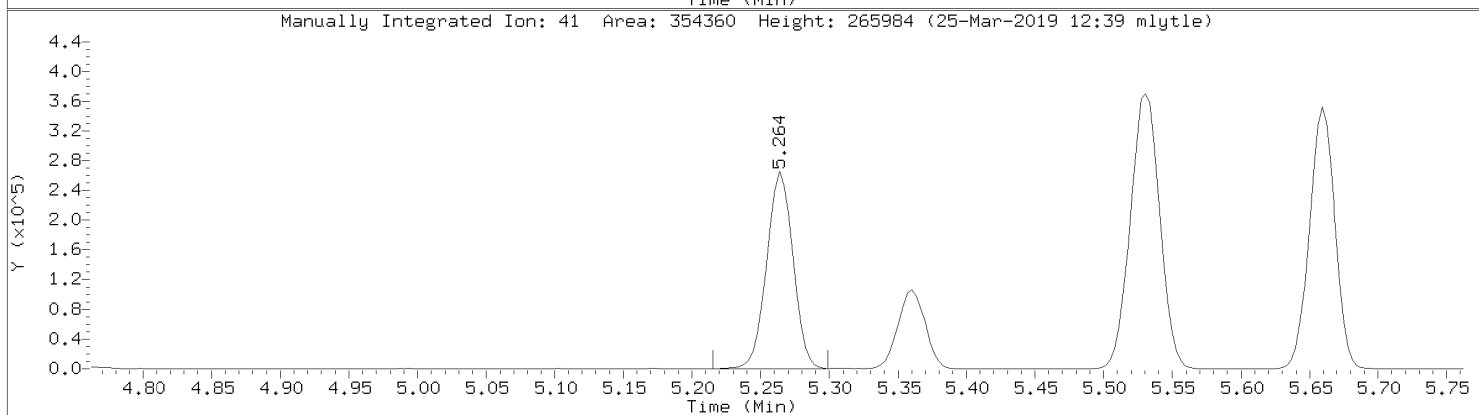
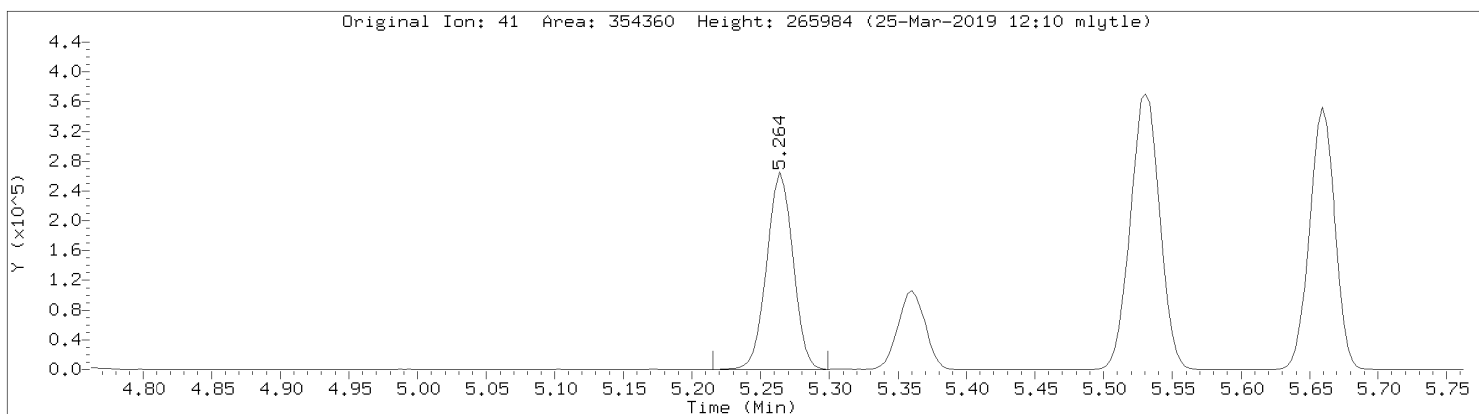


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Injection Date: 25-MAR-2019 08:48
Instrument: 10airH.i
Lab Sample ID: CAL6

Compound: Cyclohexane
CAS Number: 110-82-7

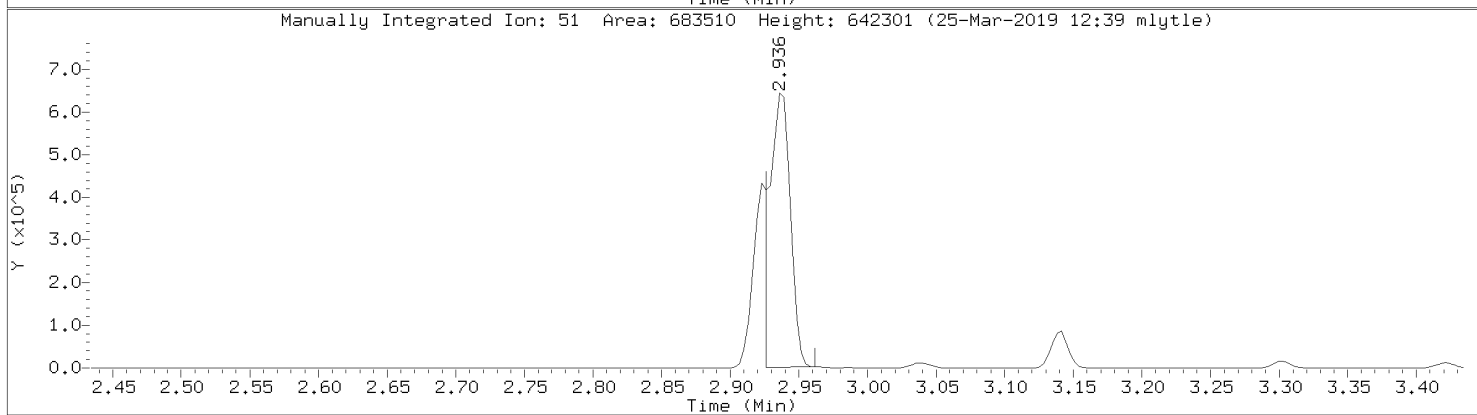
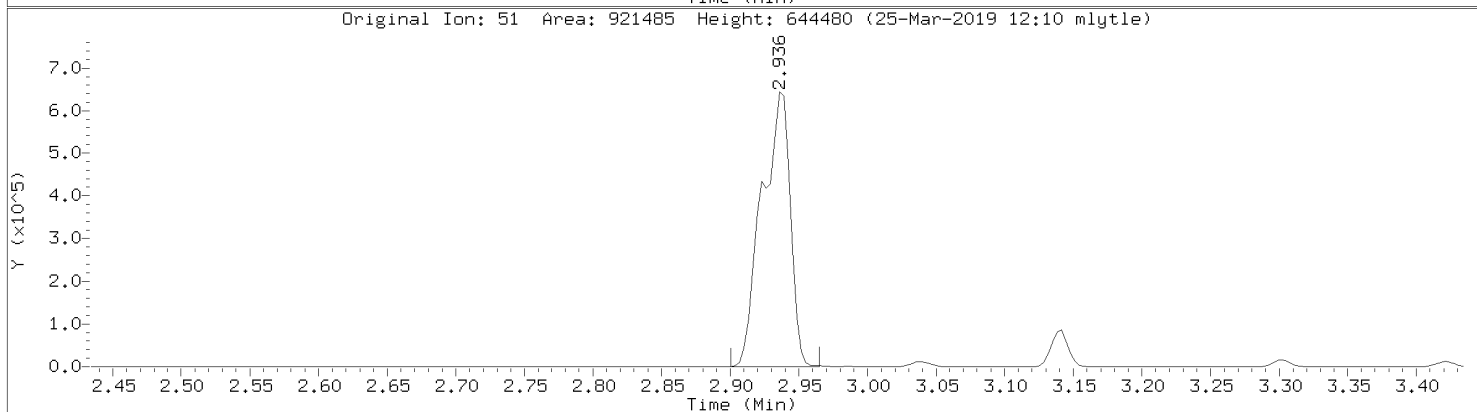
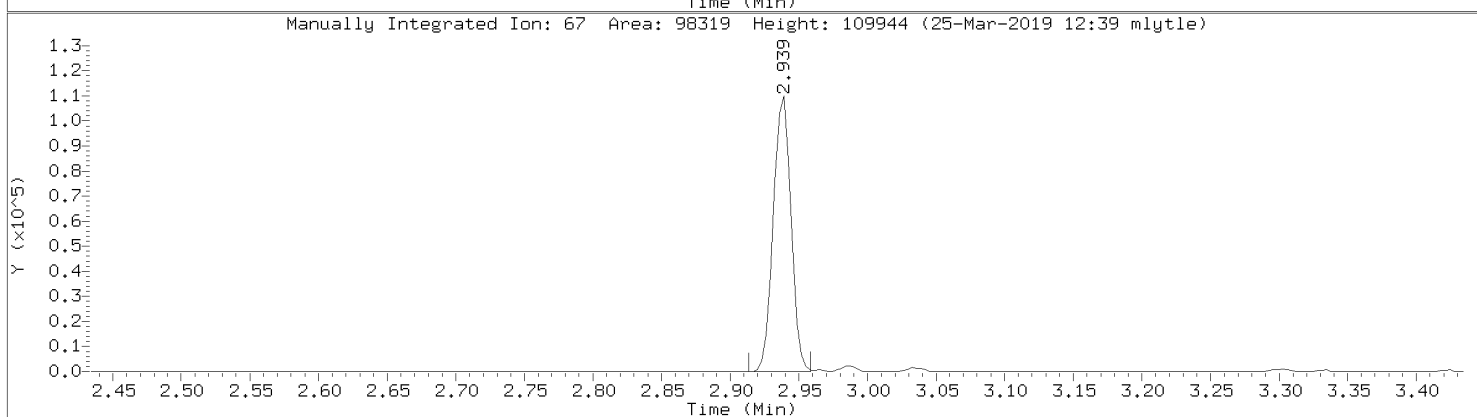
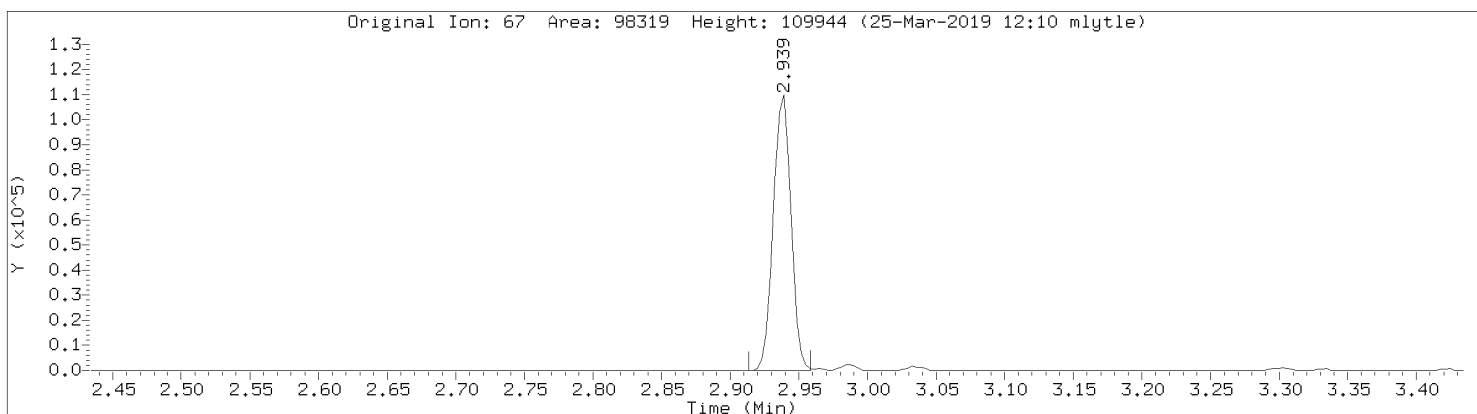


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Lab Sample ID: CAL6

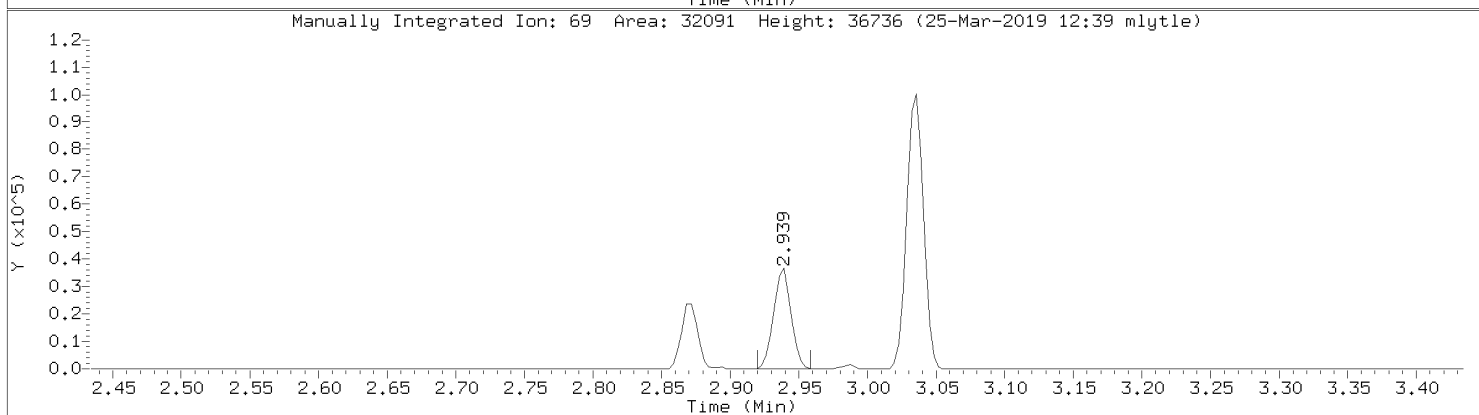
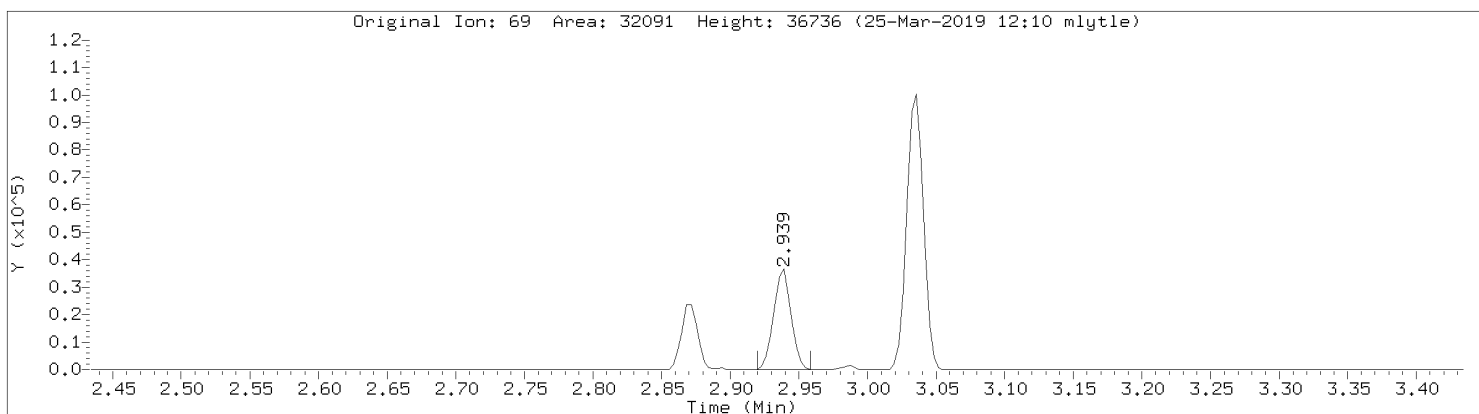


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Injection Date: 25-MAR-2019 08:48
Instrument: 10airH.i
Lab Sample ID: CAL6

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

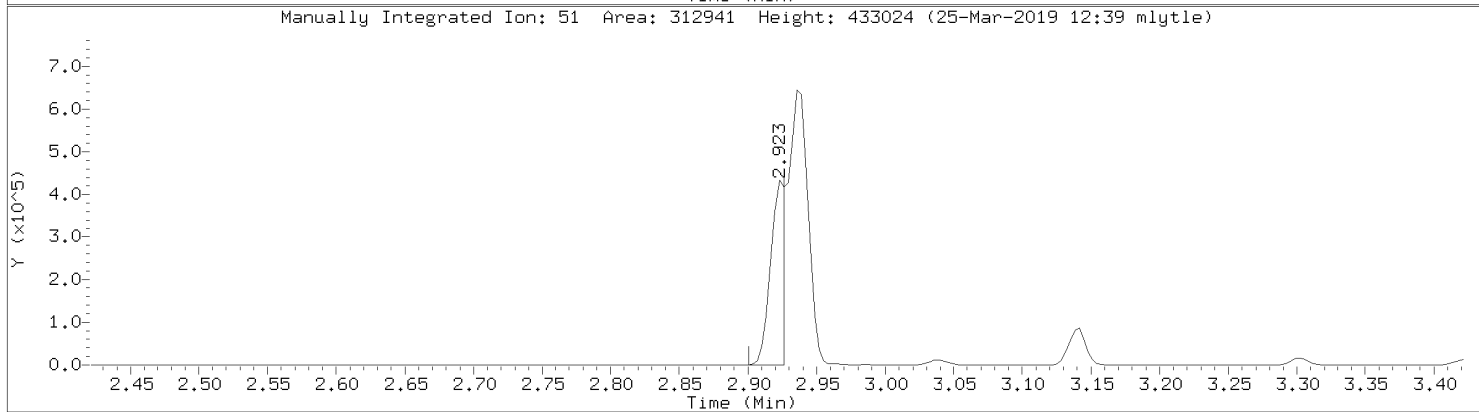
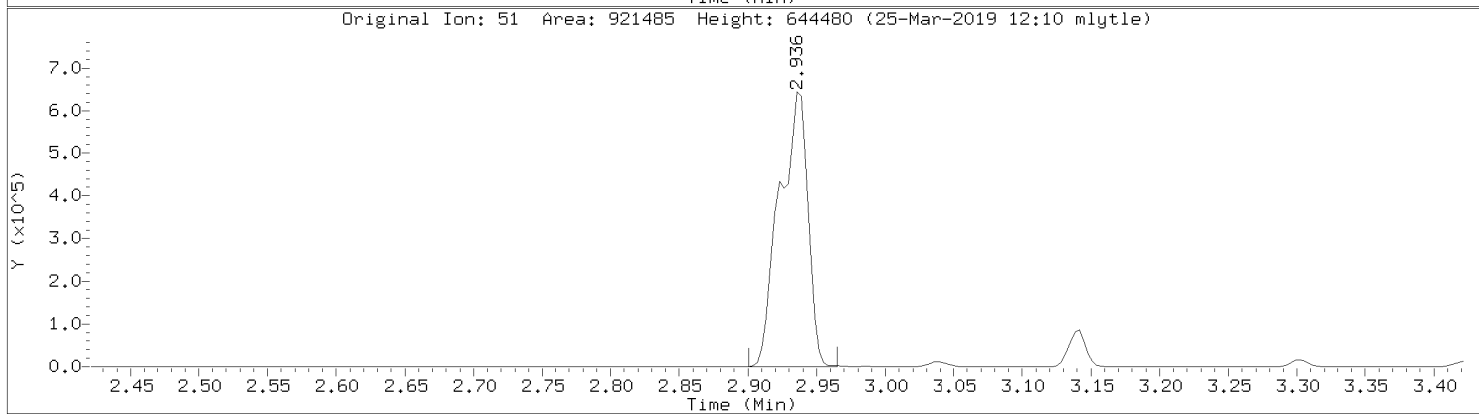
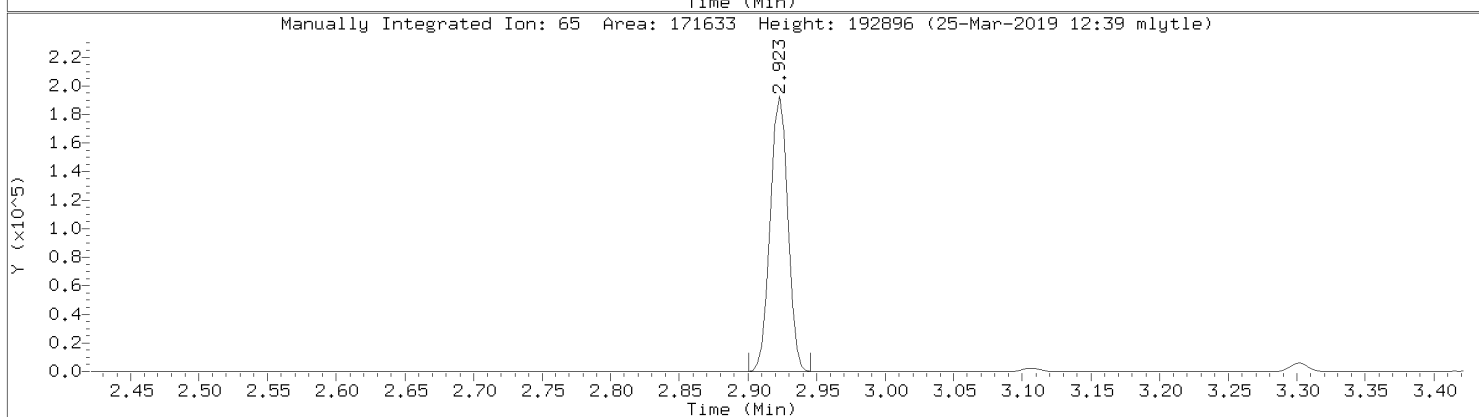
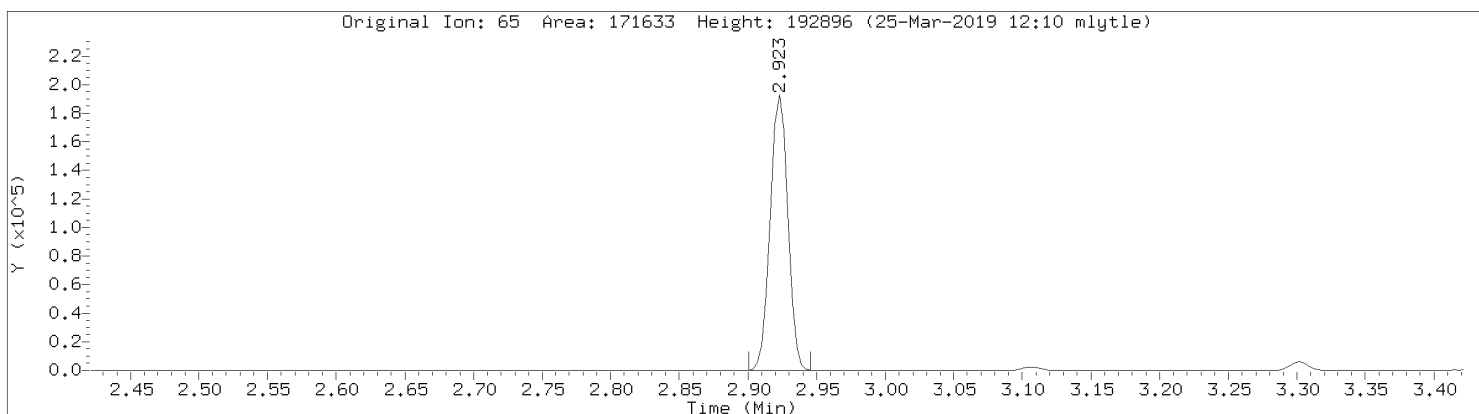


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Injection Date: 25-MAR-2019 08:48
Instrument: 10airH.i
Lab Sample ID: CAL6

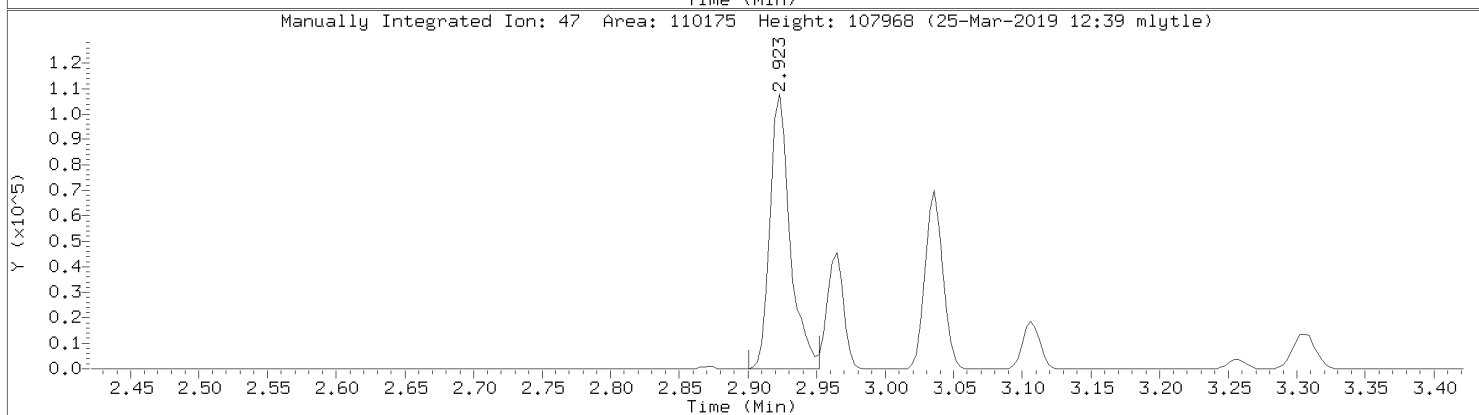
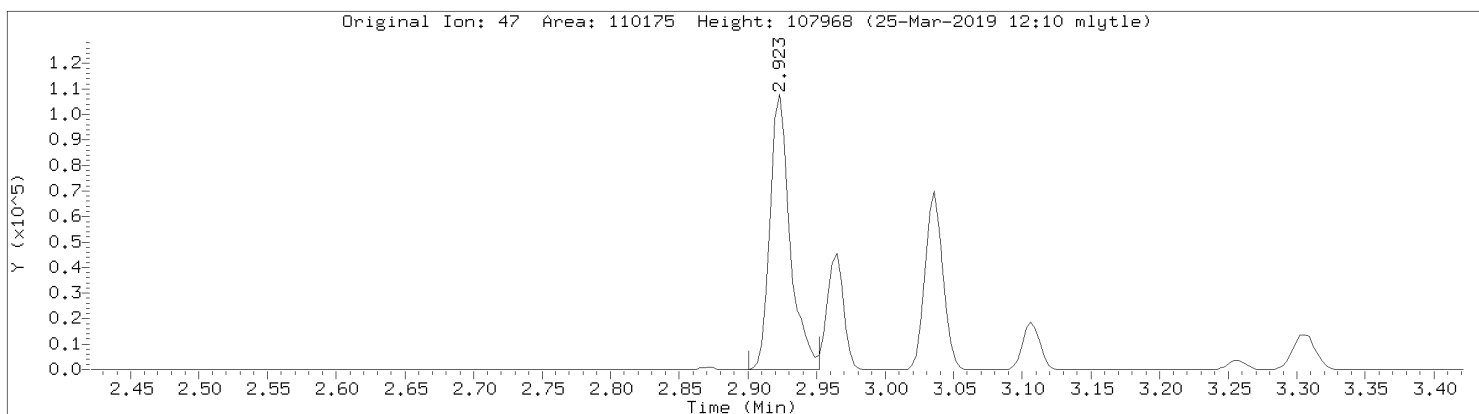


Data File: \\192.168.10.12\chem\10airH.i\032519.b\08407.D
Injection Date: 25-MAR-2019 08:48
Instrument: 10airH.i
Lab Sample ID: CAL6

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6



Data File: \\192.168.10.12\chem\10airH.i\032519.b\08407.D
Injection Date: 25-MAR-2019 08:48
Instrument: 10airH.i
Lab Sample ID: CAL6



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airH.i\032519.b\08408.D
 Lab Smp Id: CAL5
 Inj Date : 25-MAR-2019 09:13
 Operator : MJL Inst ID: 10airH.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Meth Date : 25-Mar-2019 12:39 10airH.i Quant Type: ISTD
 Cal Date : 25-MAR-2019 08:48 Cal File: 08407.D
 Als bottle: 8 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ppbv)	ON-COL (ppbv)
1 1,1-Difluoroethane	65	2.922	2.922	(0.538)	94186	10.0000	9.89 (QM)
2 Chlorodifluoromethane	67	2.938	2.938	(0.541)	53679	10.0000	10.1 (QM)
3 Propylene	41	2.945	2.945	(0.542)	141783	10.0000	9.98
4 Dichlorodifluoromethane	85	2.964	2.964	(0.546)	487526	10.0000	9.67
5 Dichlorotetrafluoroethane	85	3.035	3.035	(0.559)	433521	10.0000	9.27
6 Chloromethane	50	3.038	3.038	(0.559)	203735	10.0000	9.19
7 Vinyl chloride	62	3.105	3.105	(0.572)	162990	10.0000	9.51
8 1,3-Butadiene	54	3.141	3.141	(0.578)	123343	10.0000	9.66
9 Bromomethane	94	3.257	3.257	(0.599)	147944	10.0000	9.31
10 Chloroethane	64	3.302	3.302	(0.608)	75934	10.0000	9.42
11 Ethanol	45	3.308	3.308	(0.609)	383653	50.0000	46.4
12 Vinyl Bromide	106	3.408	3.408	(0.627)	138854	10.0000	9.53
13 Isopentane	43	3.421	3.421	(0.630)	199033	10.0000	8.94
14 Freon 123	83	3.456	3.456	(0.636)	360019	10.0000	9.35
15 Trichlorofluoromethane	101	3.482	3.482	(0.641)	451220	10.0000	9.23
16 Acrolein	56	3.482	3.482	(0.641)	174459	25.0000	24.9
17 Acetone	43	3.504	3.504	(0.645)	1556383	50.0000	42.1 (M)
18 Isopropyl Alcohol	45	3.523	3.523	(0.649)	1670541	50.0000	45.8 (M)
19 1,1-Dichloroethene	61	3.697	3.697	(0.680)	298915	10.0000	9.33
20 Acrylonitrile	53	3.700	3.700	(0.681)	328220	25.0000	23.9
21 Tert Butyl Alcohol (TBA)	59	3.720	3.720	(0.685)	418424	10.0000	9.55
22 Methyl Acetate	43	3.726	3.726	(0.686)	443602	10.0000	9.72
23 Freon 113	101	3.729	3.729	(0.686)	333527	10.0000	9.54

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Allyl Chloride	76		3.806	3.806	(0.701)	80186	10.0000	10.8
25 Methylene chloride	49		3.806	3.806	(0.701)	1185606	50.0000	46.9
26 Carbon Disulfide	76		3.912	3.912	(0.720)	478713	10.0000	9.74
27 Methyl Tert Butyl Ether	73		4.060	4.060	(0.747)	482710	10.0000	9.75
28 trans-1,2-dichloroethene	96		4.076	4.076	(0.750)	159113	10.0000	9.70
29 Vinyl Acetate	43		4.150	4.150	(0.764)	595091	10.0000	10.1
30 1,1-Dichloroethane	63		4.202	4.202	(0.773)	331883	10.0000	9.63
31 Methyl Ethyl Ketone	72		4.311	4.311	(0.793)	83389	10.0000	8.13 (QM)
32 Di-isopropyl Ether	45		4.334	4.334	(0.798)	685020	10.0000	9.66
33 n-Hexane	57		4.347	4.347	(0.800)	266197	10.0000	9.66
34 Ethyl Acetate	43		4.469	4.469	(0.822)	495990	10.0000	9.99
35 cis-1,2-Dichloroethene	96		4.488	4.488	(0.826)	169789	10.0000	9.77
36 Ethyl Tert-Butyl Ether	59		4.562	4.562	(0.840)	620027	10.0000	9.85
37 Chloroform	83		4.671	4.671	(0.860)	405720	10.0000	9.51
38 Tetrahydrofuran	42		4.732	4.732	(0.871)	216341	10.0000	9.81
39 1,1,1-Trichloroethane	97		4.983	4.983	(0.917)	411500	10.0000	9.71
40 1,2-Dichloroethane	62		5.064	5.064	(0.932)	301111	10.0000	9.68
41 Benzene	78		5.221	5.221	(0.961)	510029	10.0000	9.58
42 Carbon tetrachloride	117		5.237	5.237	(0.964)	423892	10.0000	10.2
43 Cyclohexane	56		5.263	5.263	(0.969)	279621	10.0000	9.88 (M)
44 Tert Amyl Methyl Ether	73		5.359	5.359	(0.986)	518545	10.0000	9.86
* 45 1,4-Difluorobenzene	114		5.433	5.433	(1.000)	451734	10.0000	
46 2,2,4-Trimethylpentane	57		5.530	5.530	(1.018)	875385	10.0000	9.57
47 Heptane	43		5.658	5.658	(1.041)	377524	10.0000	9.86
48 Trichloroethene	130		5.765	5.765	(1.061)	207872	10.0000	9.77
49 1,2-Dichloropropane	63		5.810	5.810	(1.069)	214124	10.0000	9.92
50 Methyl methacrylate	69		5.803	5.803	(1.068)	200613	10.0000	9.98
51 1,4-Dioxane	88		5.851	5.851	(1.077)	274359	25.0000	24.4
52 Bromodichloromethane	83		5.970	5.970	(1.099)	463627	10.0000	9.98
53 Methylcyclohexane	98		6.237	6.237	(1.148)	119585	10.0000	10.3
54 Methyl Isobutyl Ketone	43		6.308	6.308	(1.161)	531987	10.0000	9.83
55 cis-1,3-Dichloropropene	75		6.395	6.395	(1.177)	358564	10.0000	10.0
56 trans-1,3-Dichloropropene	75		6.838	6.838	(1.259)	323056	10.0000	10.3
57 Toluene	91		6.938	6.938	(1.277)	597281	10.0000	9.53
58 1,1,2-Trichloroethane	97		7.063	7.063	(1.300)	215600	10.0000	9.89
59 Methyl Butyl Ketone	43		7.154	7.154	(0.849)	500771	10.0000	9.78
60 n-Octane	43		7.363	7.363	(0.874)	526320	10.0000	9.82
61 Dibromochloromethane	129		7.597	7.597	(0.902)	414924	10.0000	10.3
62 Tetrachloroethene	166		7.684	7.684	(0.912)	241556	10.0000	9.94
63 1,2-Dibromoethane	107		7.800	7.800	(0.926)	361381	10.0000	10.0
* 64 Chlorobenzene - d5	117		8.427	8.427	(1.000)	397119	10.0000	
65 Chlorobenzene	112		8.472	8.472	(1.005)	448838	10.0000	9.72
66 Ethyl Benzene	91		8.690	8.690	(1.031)	807936	10.0000	9.42
67 m&p-Xylene	91		8.870	8.870	(1.053)	1293818	20.0000	19.1 (M)
68 n-Nonane	43		9.211	9.211	(1.093)	570722	10.0000	10.1
69 Styrene	104		9.279	9.279	(1.101)	441826	10.0000	10.3 (M)
70 o-Xylene	91		9.311	9.311	(1.105)	669808	10.0000	9.65
71 Bromoform	173		9.382	9.382	(1.113)	336201	10.0000	11.5
72 1,1,2,2-Tetrachloroethane	83		9.726	9.726	(1.154)	502081	10.0000	10.3
73 Isopropylbenzene	105		9.861	9.861	(1.170)	824248	10.0000	10.1
74 N-Propylbenzene	91		10.430	10.430	(1.238)	1118015	10.0000	10.3
75 4-Ethyltoluene	105		10.613	10.613	(1.259)	814864	10.0000	10.4
76 1,3,5-Trimethylbenzene	105		10.687	10.687	(1.268)	719895	10.0000	9.76
77 n-Decane	57		11.041	11.041	(2.032)	555063	10.0000	10.4

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
78 Tert-Butyl Benzene	119	11.134	11.134	(1.321)	625344	10.0000	10.3
79 1,2,4-Trimethylbenzene	105	11.179	11.179	(1.327)	714854	10.0000	9.50
80 Sec- Butylbenzene	105	11.440	11.440	(1.357)	1000798	10.0000	10.3
81 1,3-Dichlorobenzene	146	11.472	11.472	(1.361)	385962	10.0000	10.7
82 Benzyl Chloride	91	11.546	11.546	(1.370)	530411	10.0000	11.7
83 1,4-Dichlorobenzene	146	11.607	11.607	(1.377)	373178	10.0000	10.6
84 p-Isopropyltoluene	119	11.645	11.645	(1.382)	830908	10.0000	10.4
85 1,2,3-Trimethylbenzene	105	11.658	11.658	(1.383)	714062	10.0000	10.4
86 1,2-Dichlorobenzene	146	11.912	11.912	(1.414)	362459	10.0000	10.4
87 N-Butylbenzene	91	12.092	12.092	(1.435)	845080	10.0000	10.6
88 1,2-Dibromo-3-Chloropropane	157	12.610	12.610	(1.496)	186394	10.0000	9.65
89 1,2,4-Trichlorobenzene	180	13.555	13.555	(1.609)	208945	10.0000	9.97
90 Naphthalene	128	13.693	13.693	(1.625)	560292	10.0000	9.89
91 Hexachlorobutadiene	225	13.803	13.803	(1.638)	208778	10.0000	10.0

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airH.i\032519.b\08408.D
Report Date: 25-Mar-2019 12:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airH.i
Lab File ID: 08408.D
Lab Smp Id: CAL5
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
Misc Info:

Calibration Date: 25-MAR-2019
Calibration Time: 09:13

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

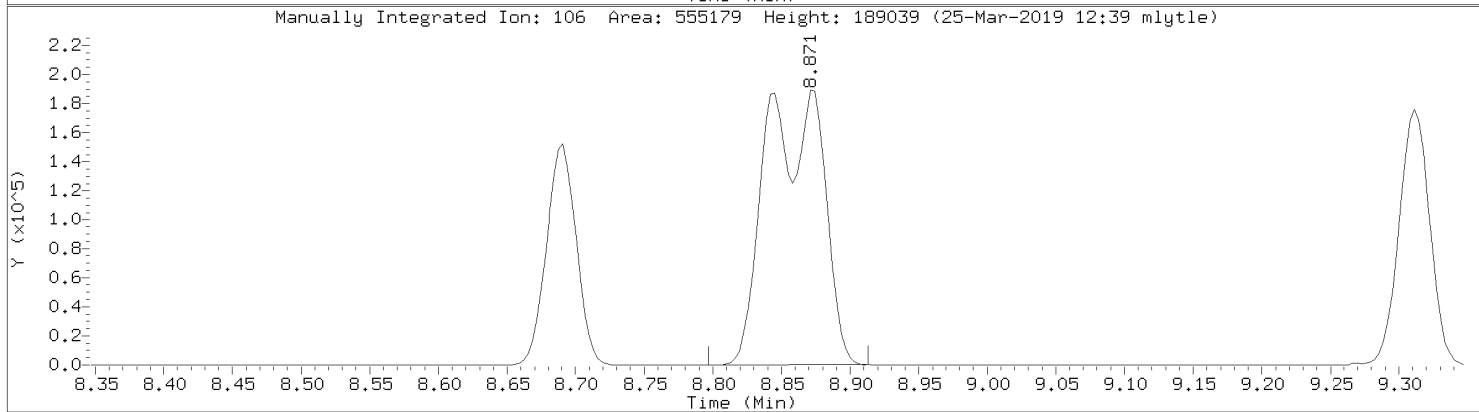
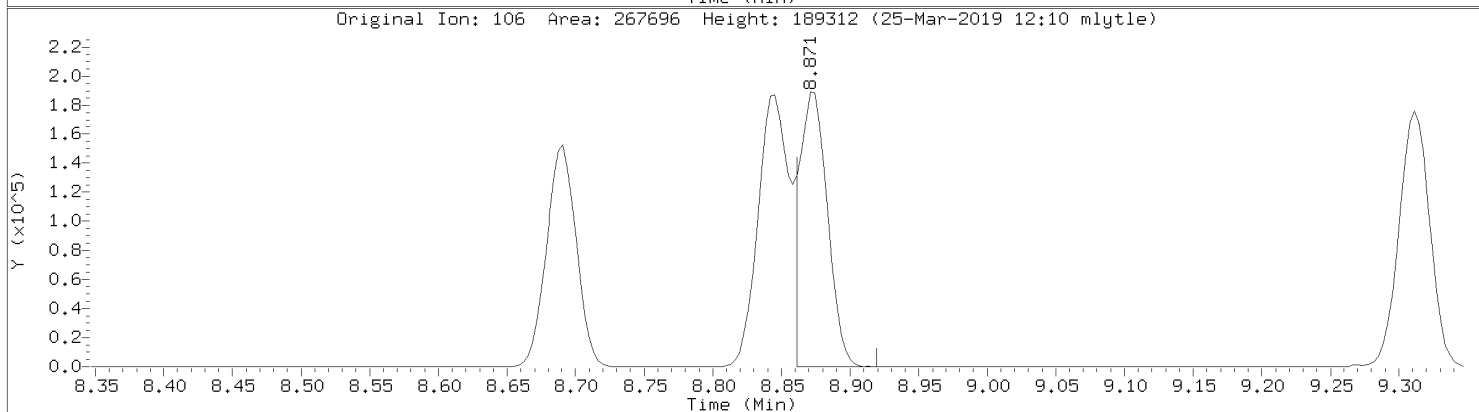
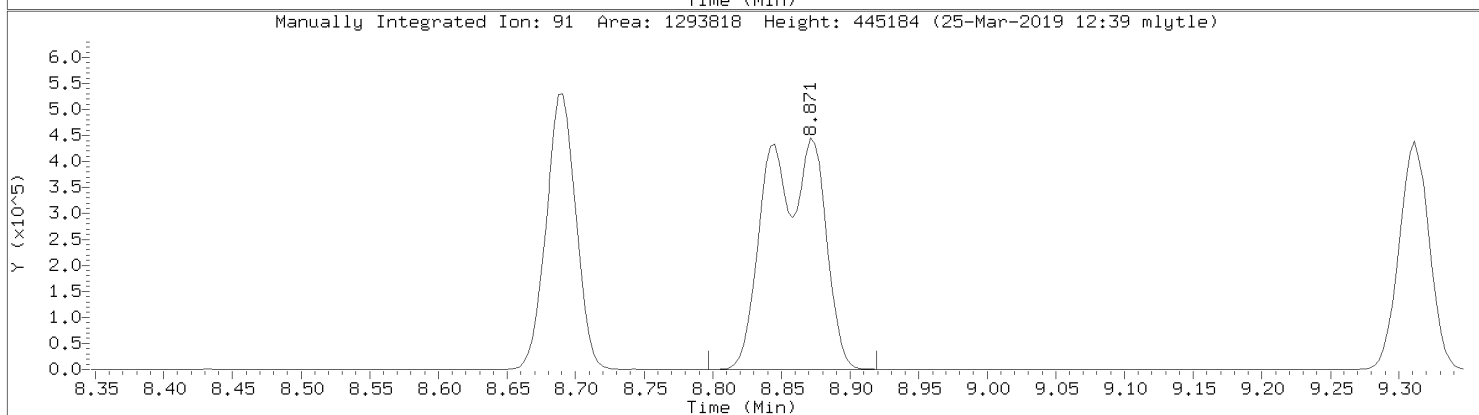
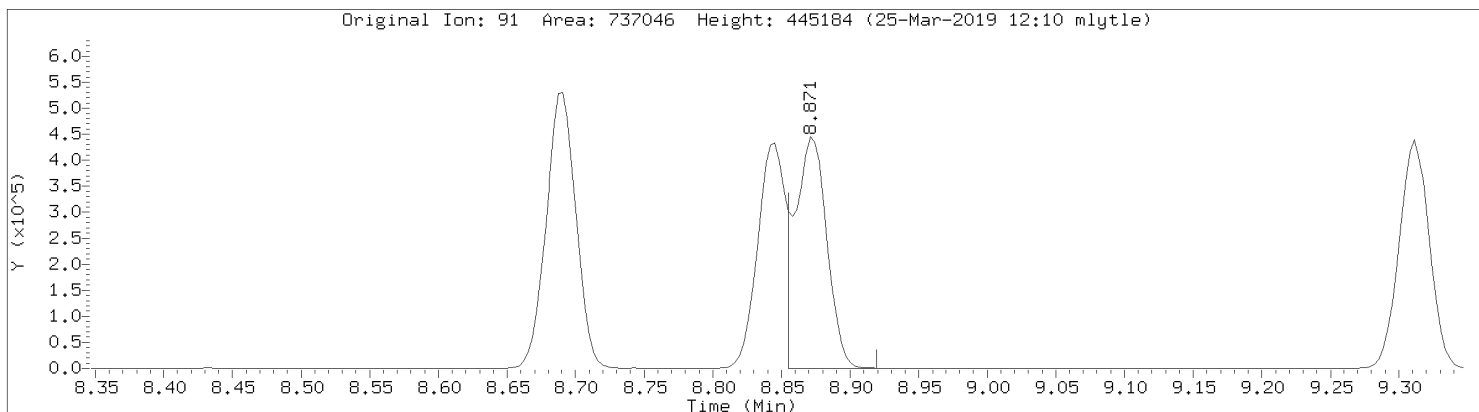
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	451734	271040	632428	451734	0.00
64 Chlorobenzene - d	397119	238271	555967	397119	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.43	5.10	5.76	5.43	0.00
64 Chlorobenzene - d	8.43	8.10	8.76	8.43	0.00

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

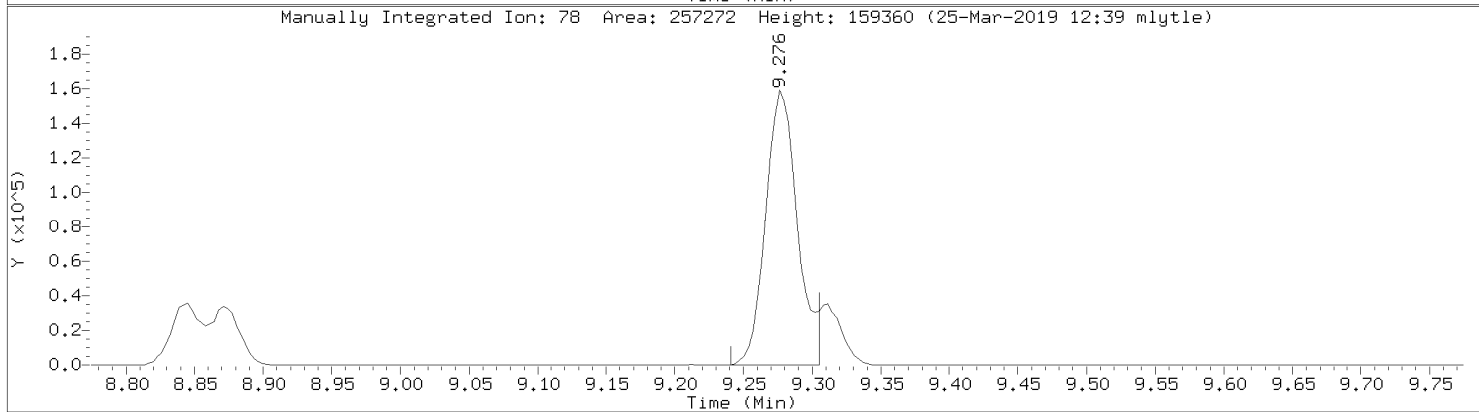
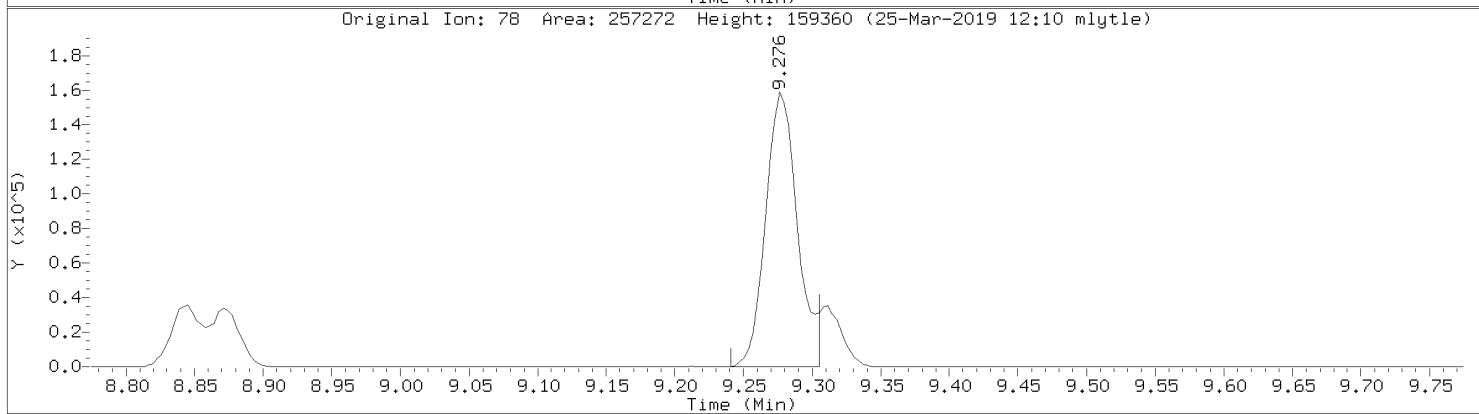
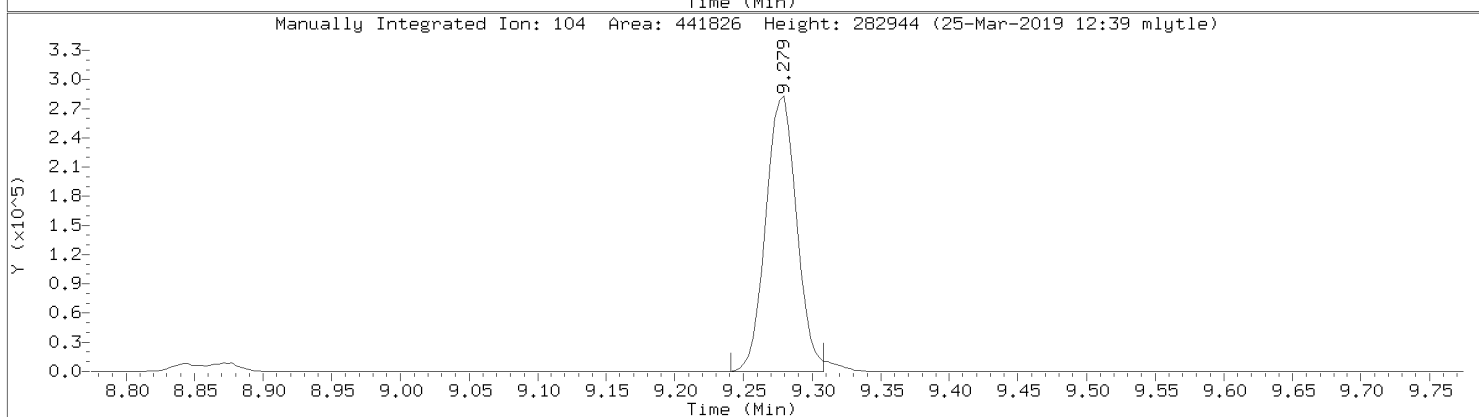
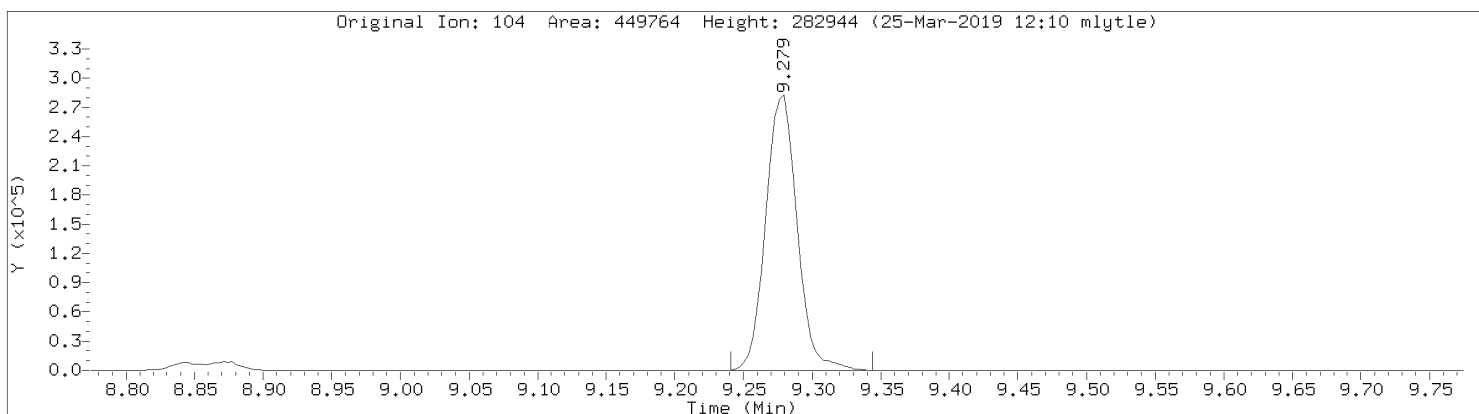
Data File: \\192.168.10.12\chem\10airH.i\032519.b\08408.D
Injection Date: 25-MAR-2019 09:13
Instrument: 10airH.i
Lab Sample ID: CAL5

Compound: m&p-Xylene
CAS Number: 7816-60-0

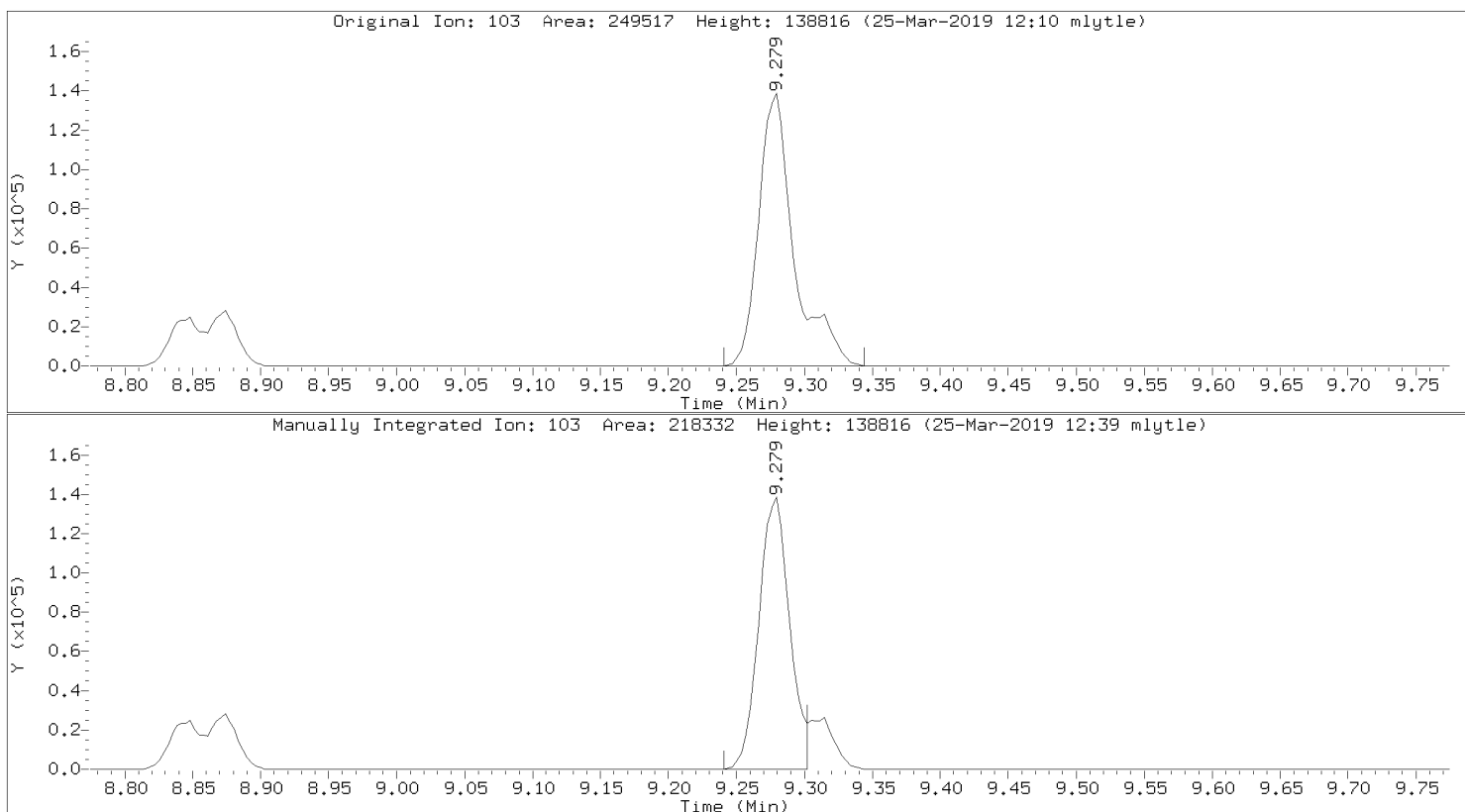


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Injection Date: 25-MAR-2019 09:13
Instrument: 10airH.i
Lab Sample ID: CAL5

Compound: Styrene
CAS Number: 100-42-5

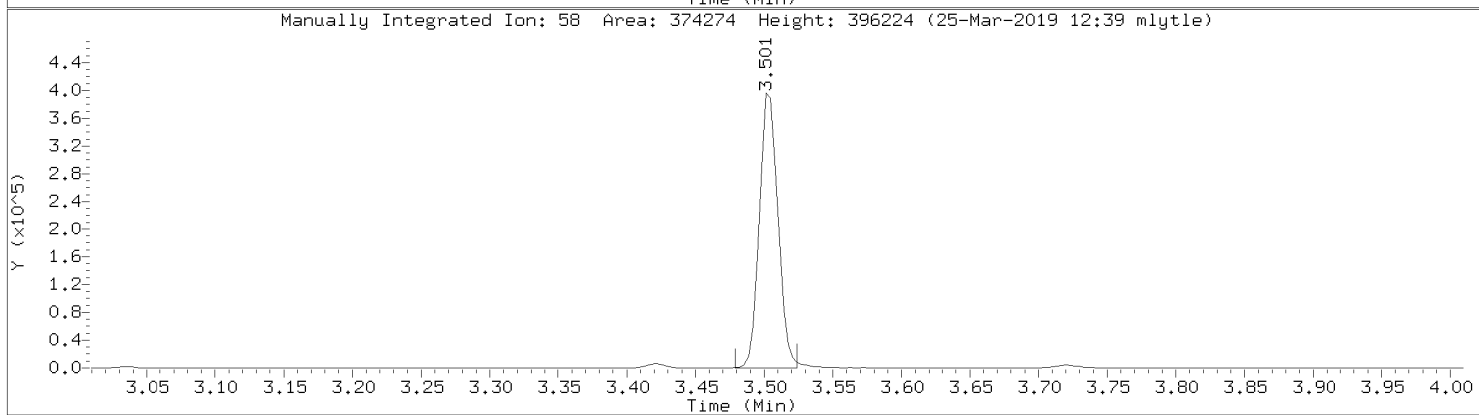
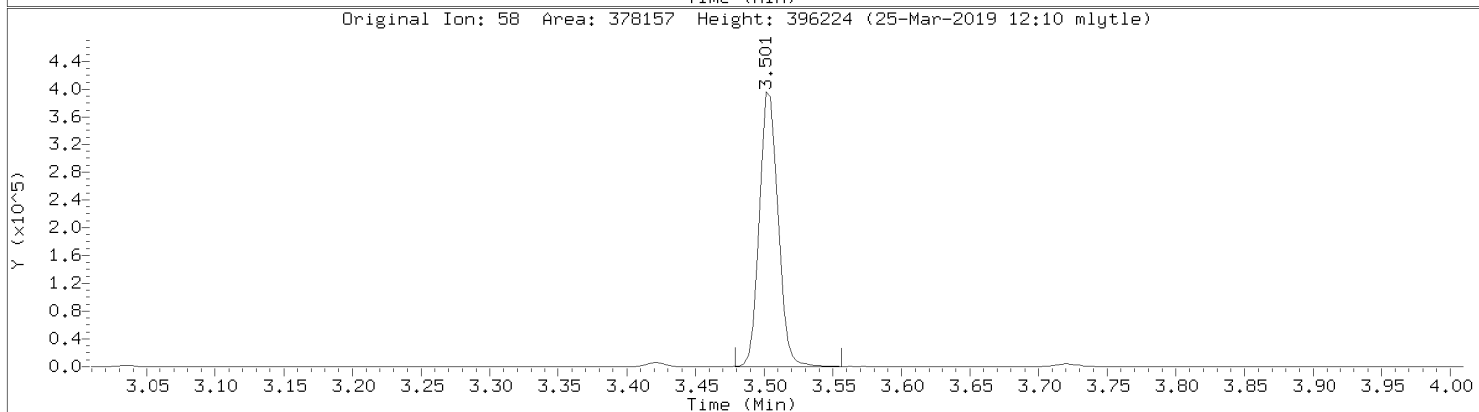
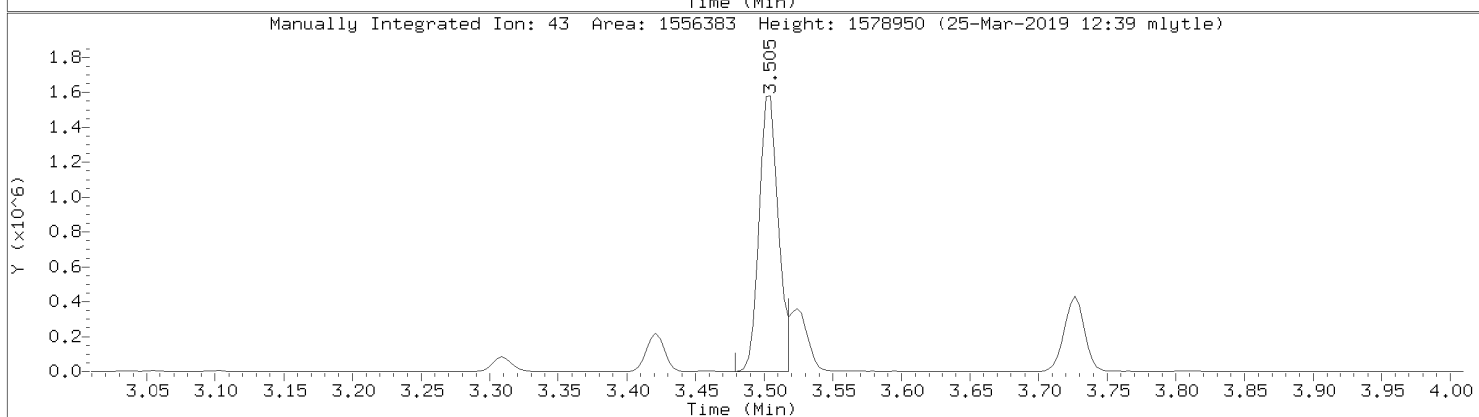
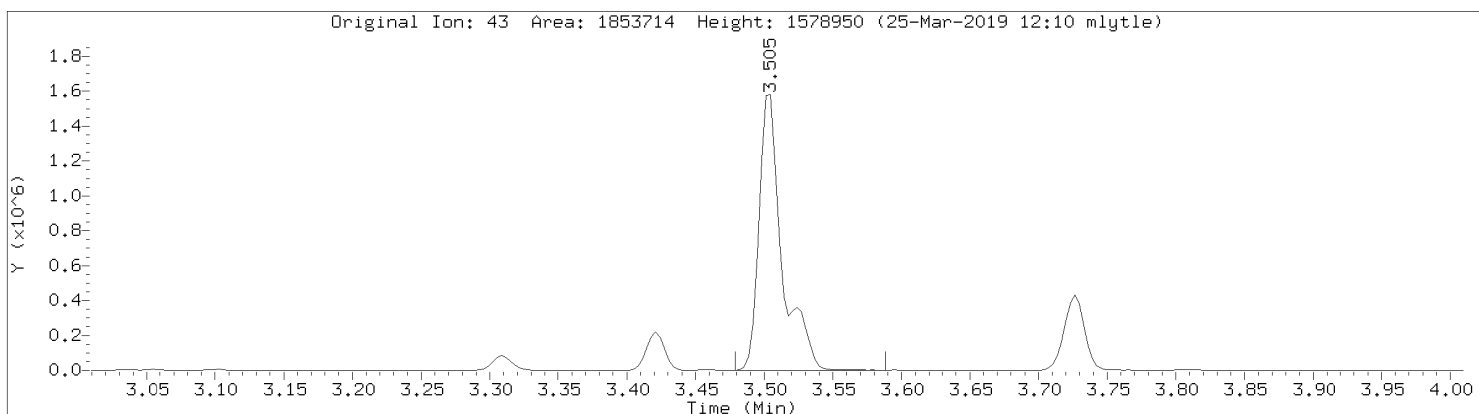


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Injection Date: 25-MAR-2019 09:13
Instrument: 10airH.i
Lab Sample ID: CAL5



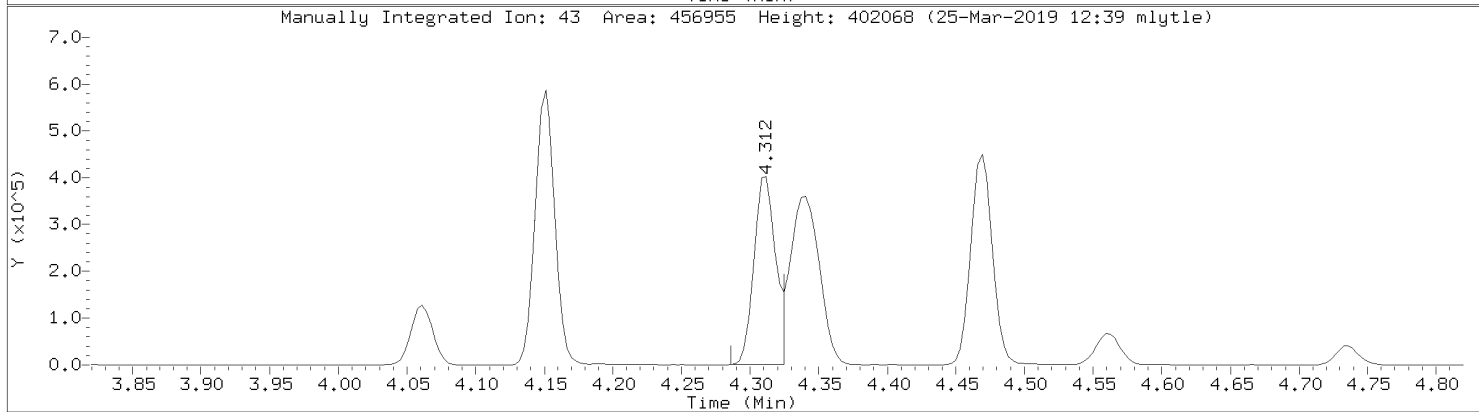
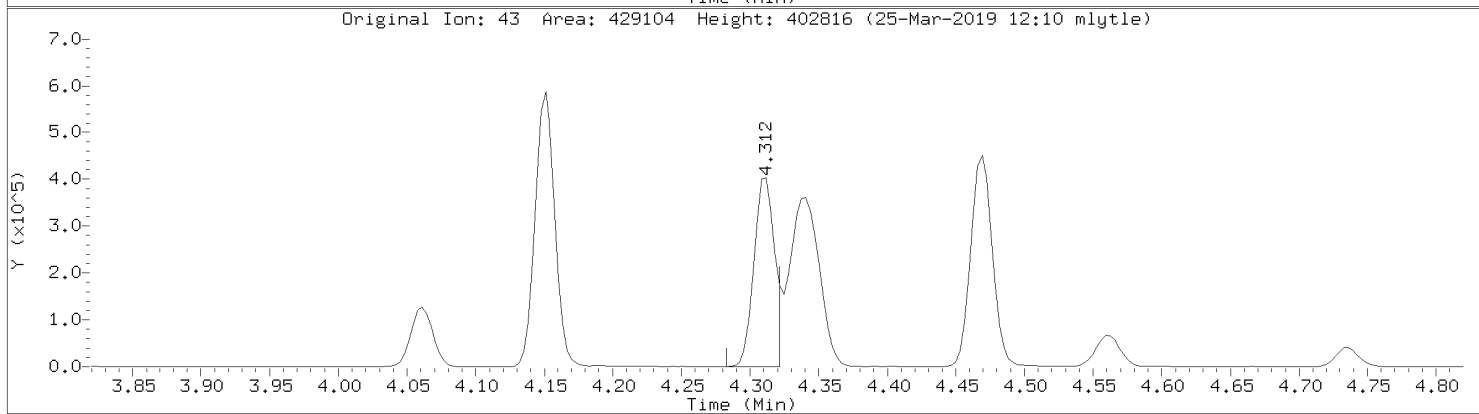
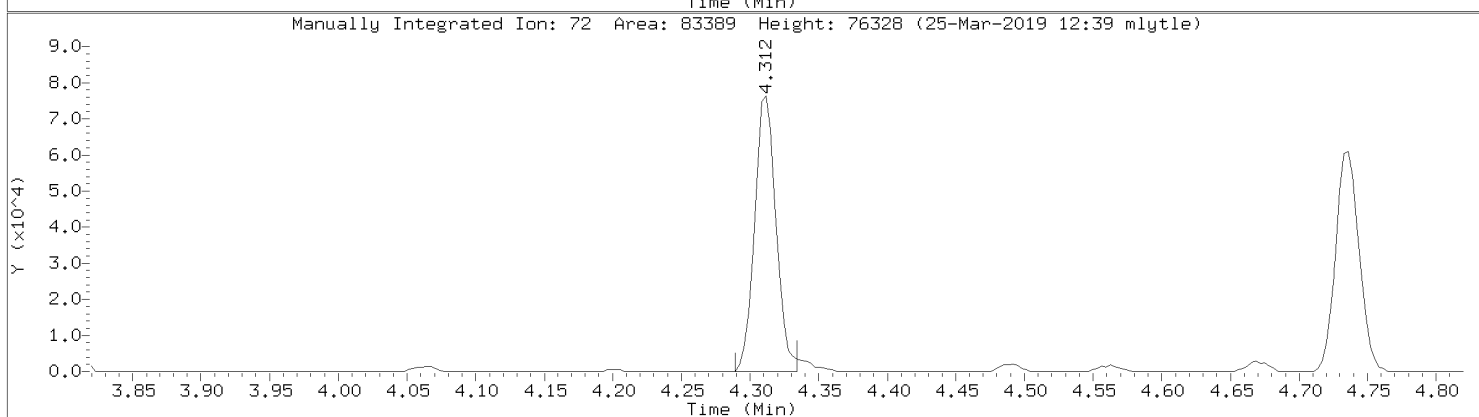
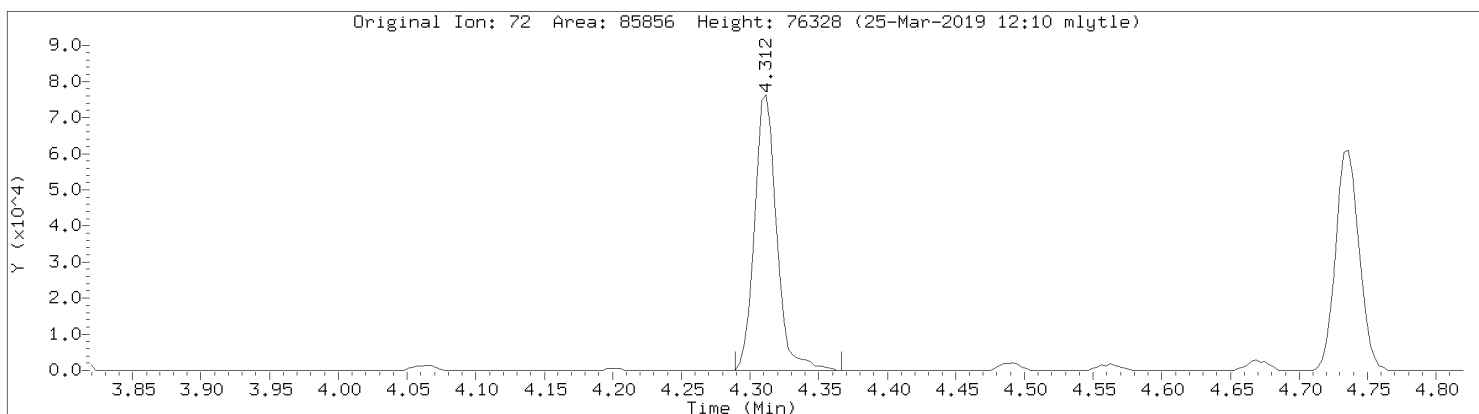
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Injection Date: 25-MAR-2019 09:13
Instrument: 10airH.i
Lab Sample ID: CAL5

Compound: Acetone
CAS Number: 67-64-1



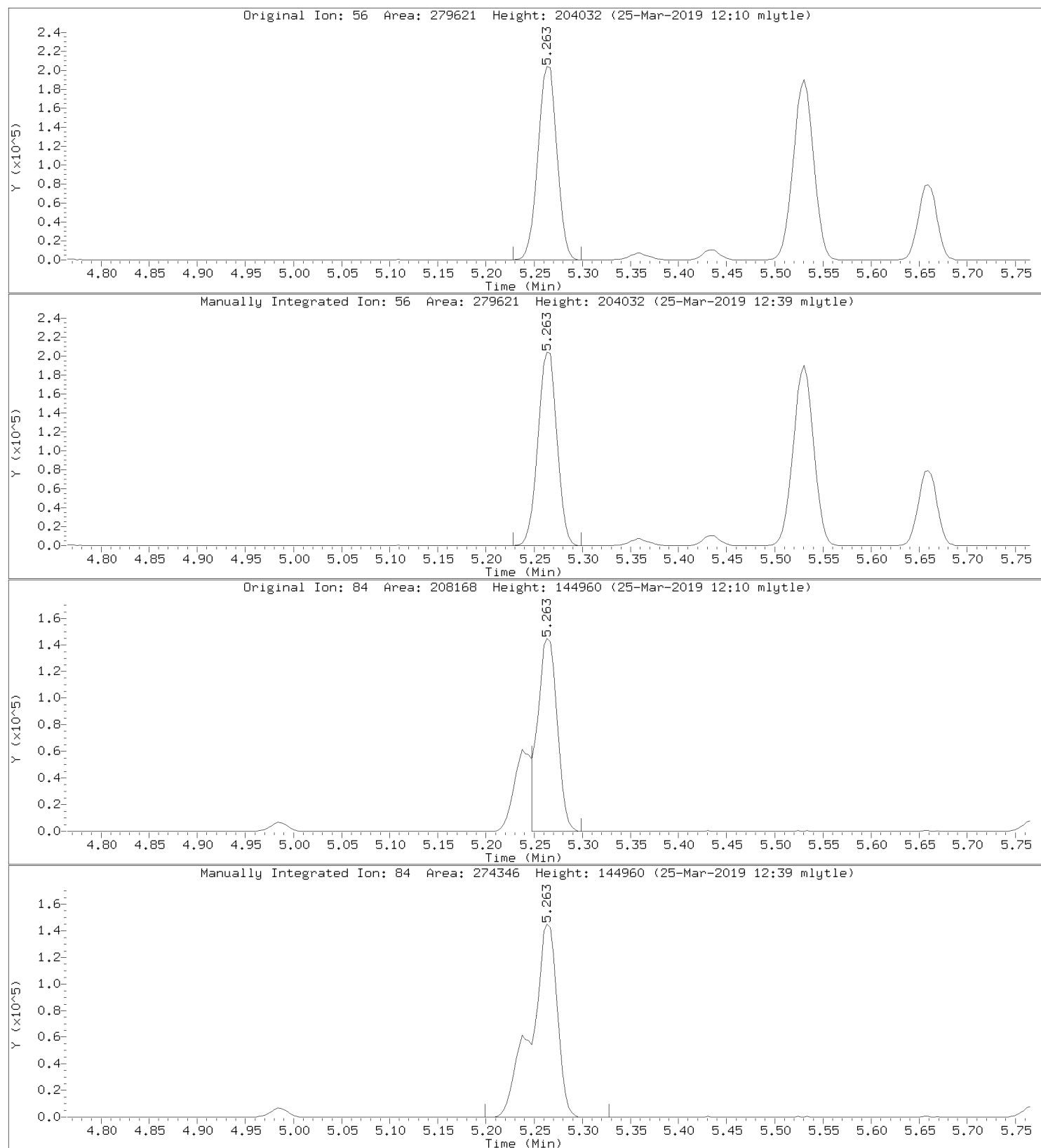
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Injection Date: 25-MAR-2019 09:13
Instrument: 10airH.i
Lab Sample ID: CAL5

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3

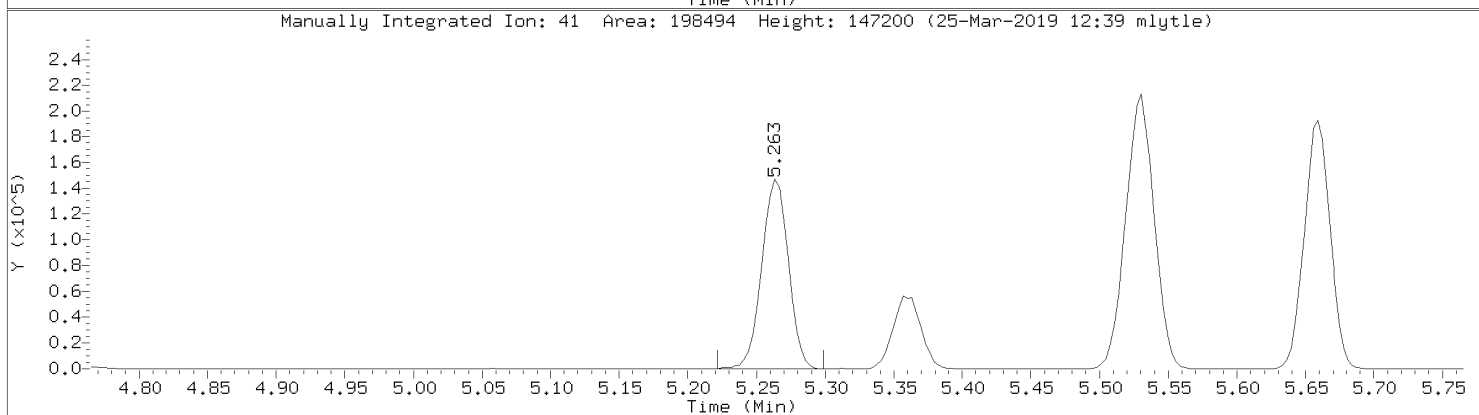
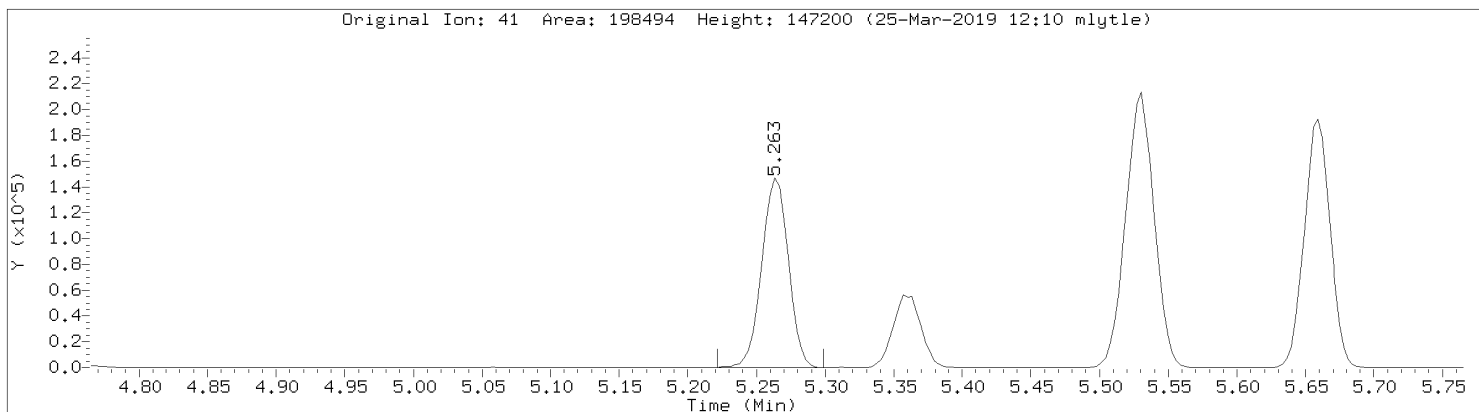


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Injection Date: 25-MAR-2019 09:13
Instrument: 10airH.i
Lab Sample ID: CAL5

Compound: Cyclohexane
CAS Number: 110-82-7

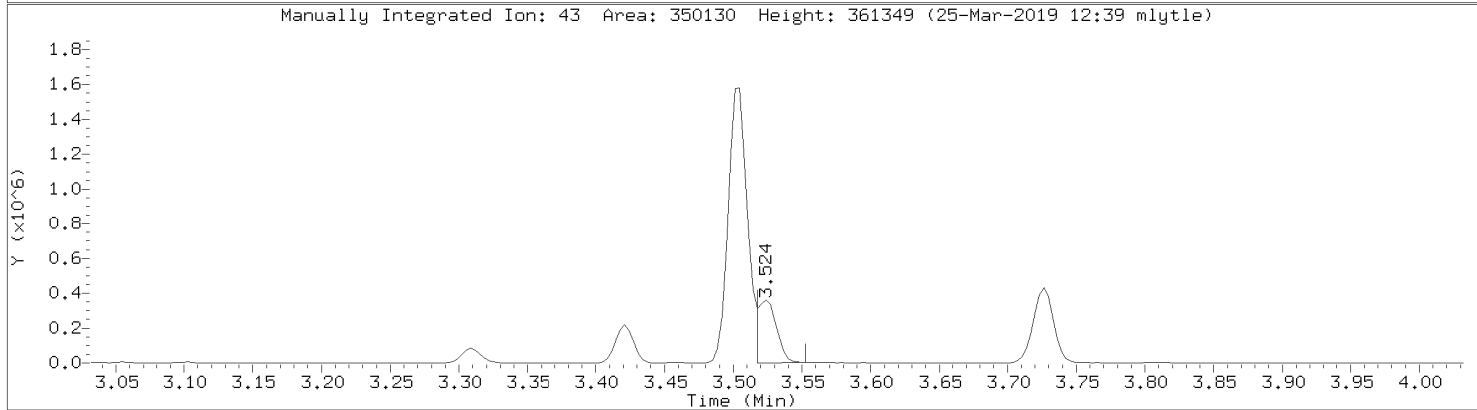
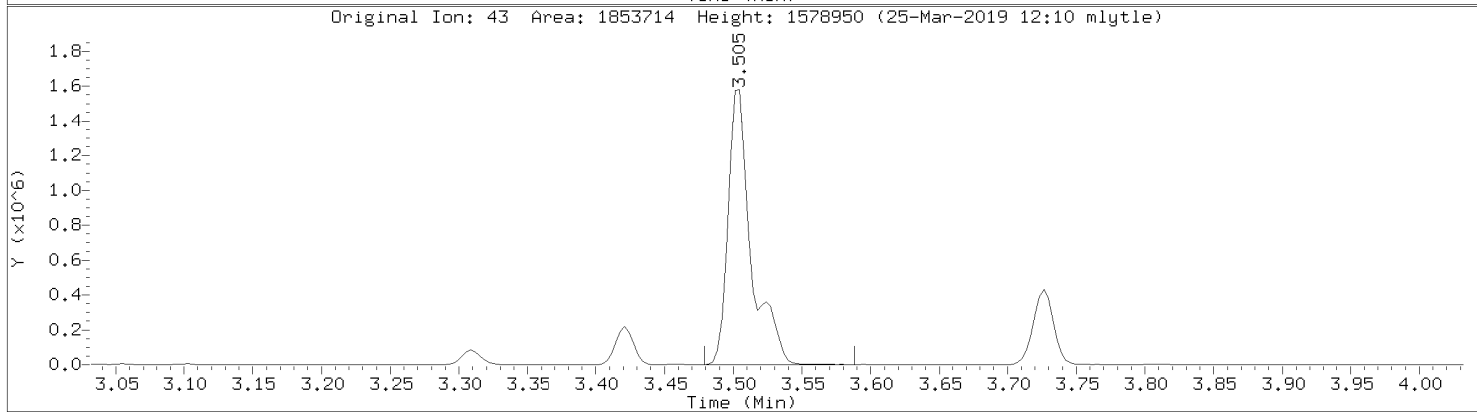
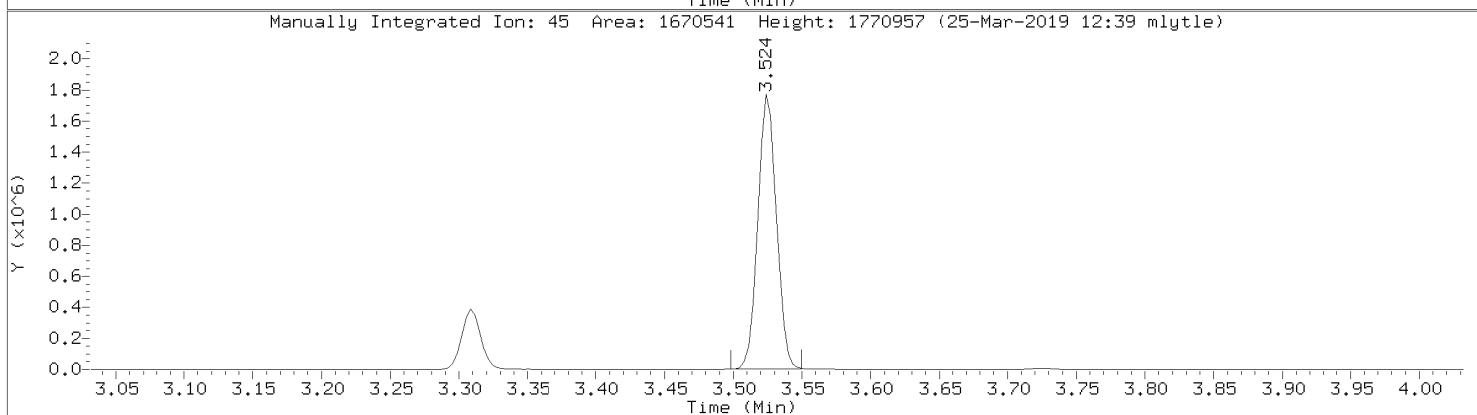
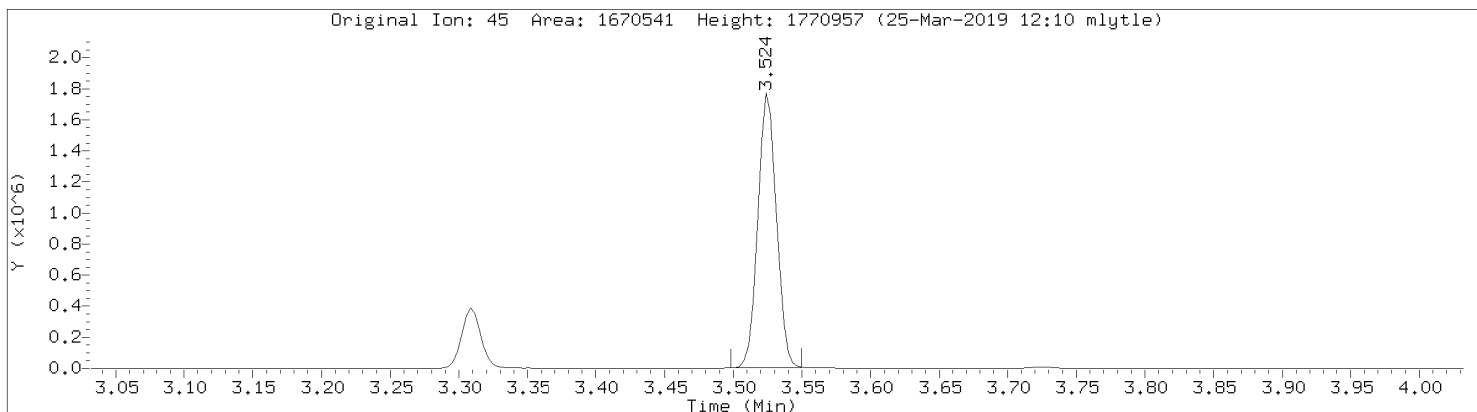


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Instrument: 10airH.i
Lab Sample ID: CAL5



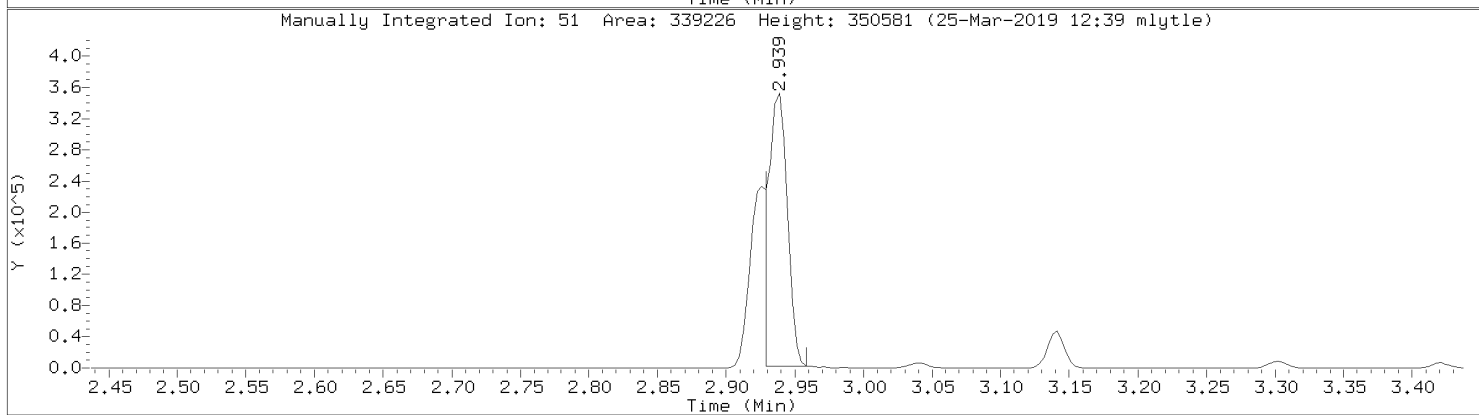
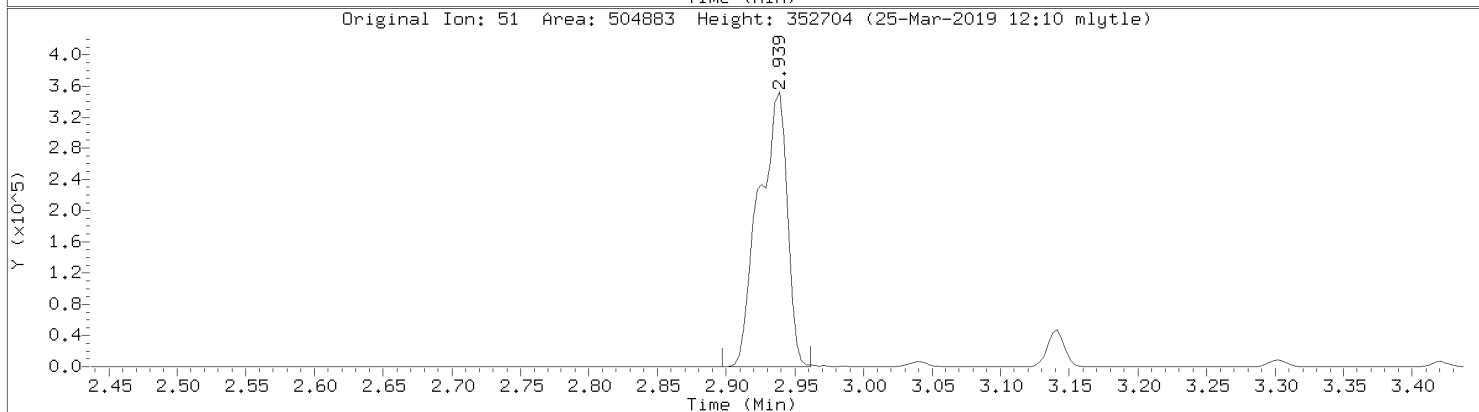
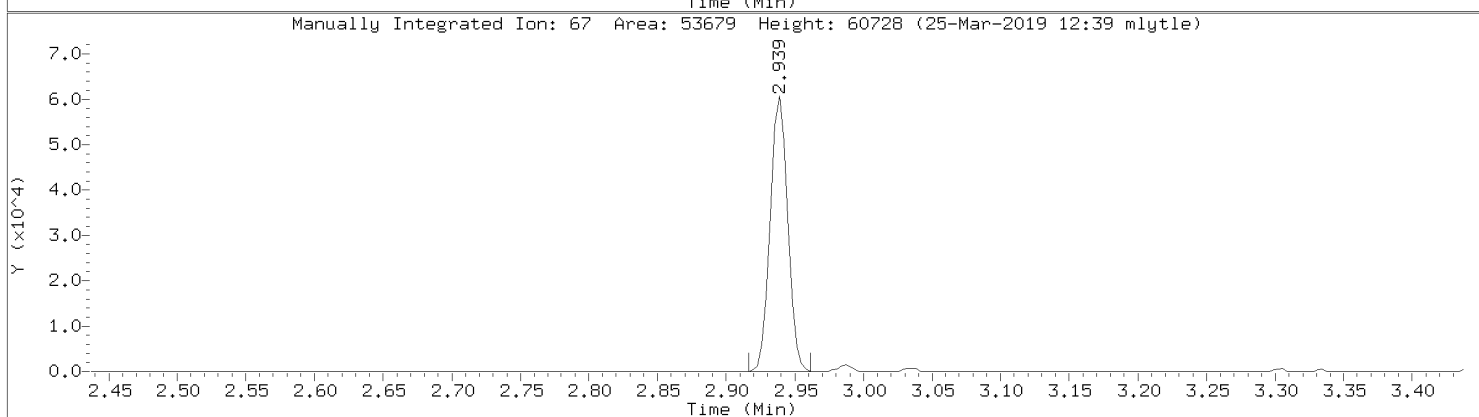
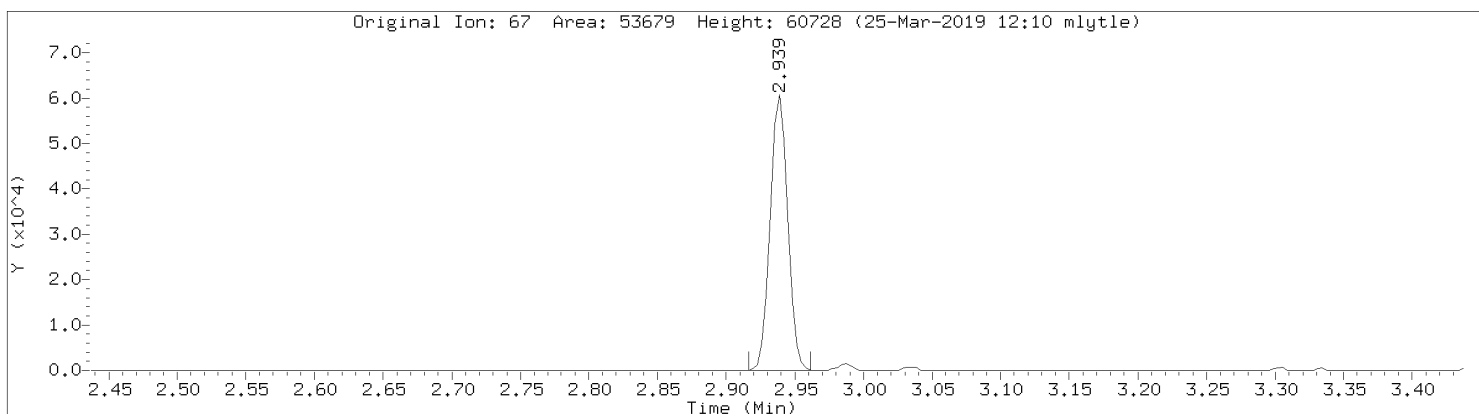
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Injection Date: 25-MAR-2019 09:13
Instrument: 10airH.i
Lab Sample ID: CAL5

Compound: Isopropyl Alcohol
CAS Number: 67-63-0

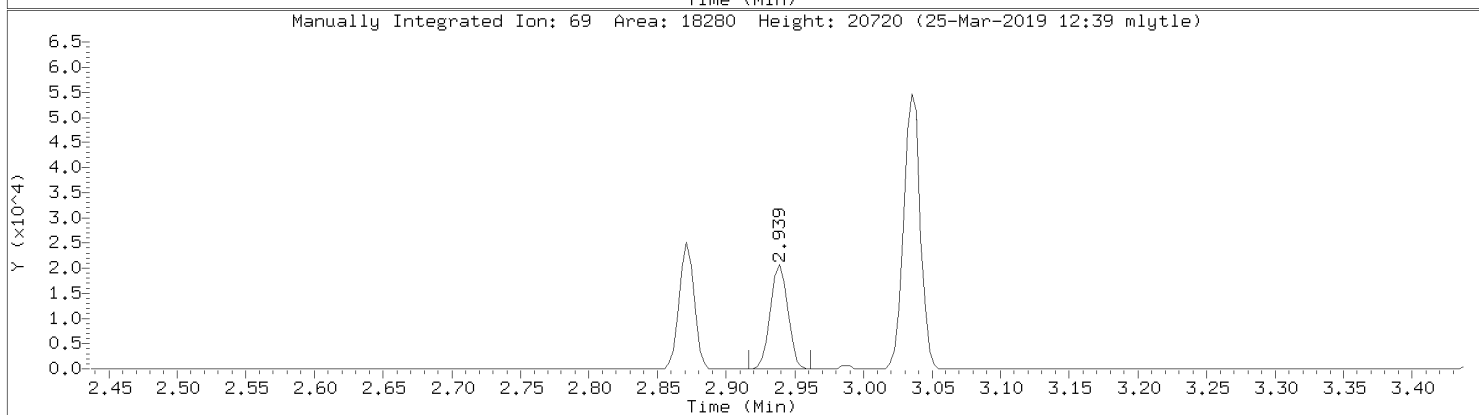
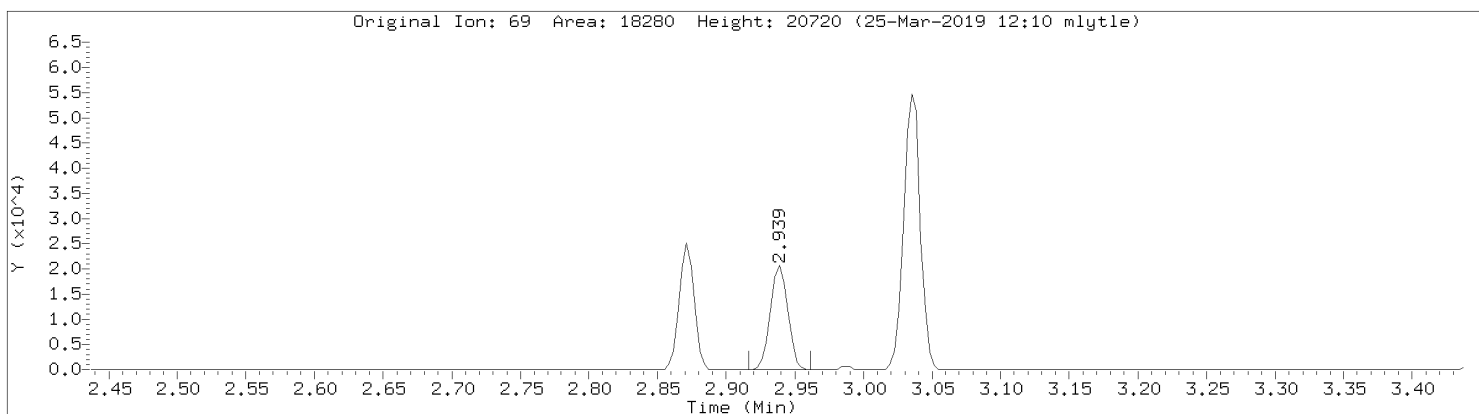


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Injection Date: 25-MAR-2019 09:13
Instrument: 10airH.i
Lab Sample ID: CAL5

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

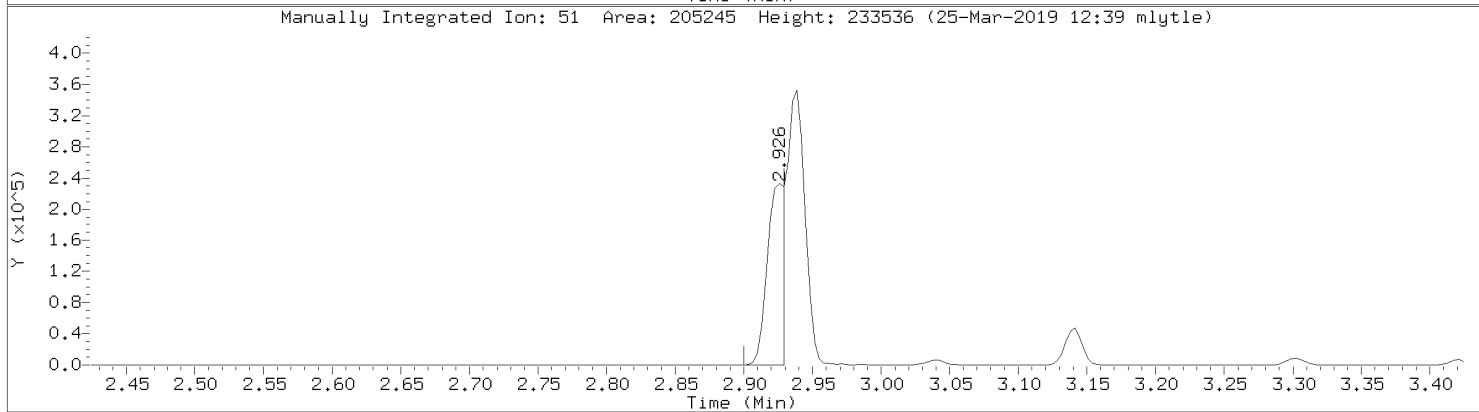
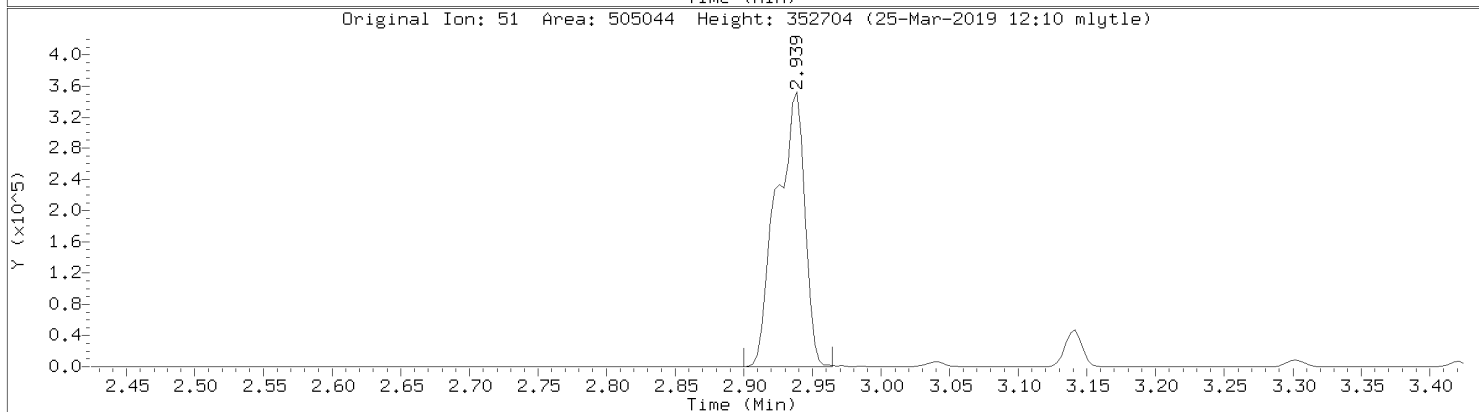
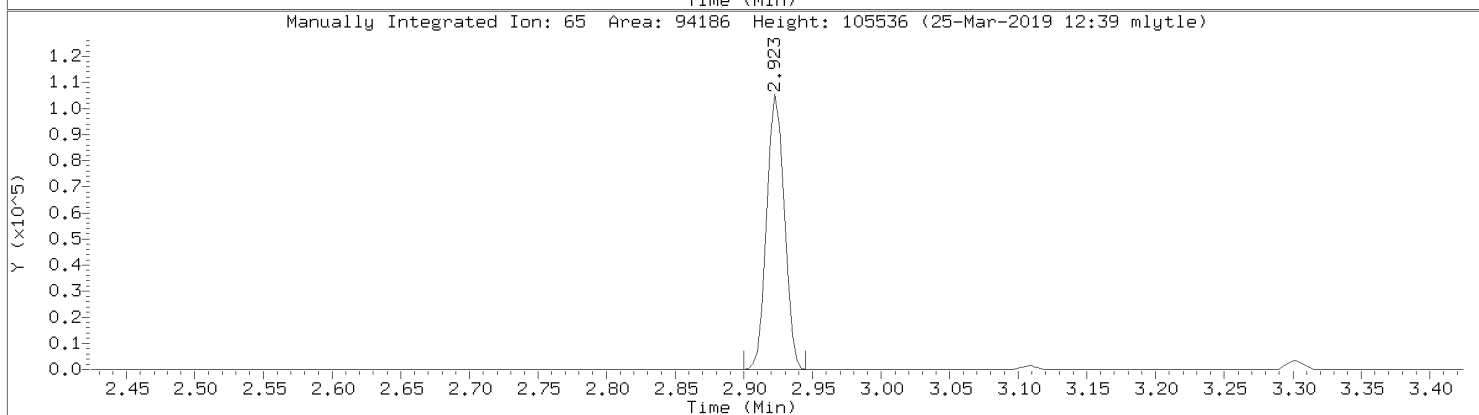
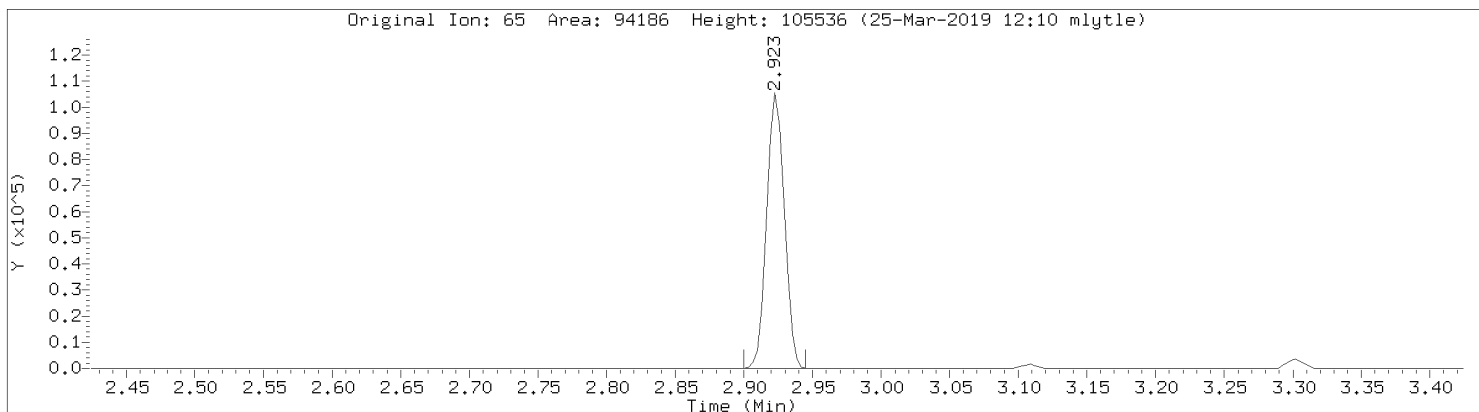


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Injection Date: 25-MAR-2019 09:13
Instrument: 10airH.i
Lab Sample ID: CAL5

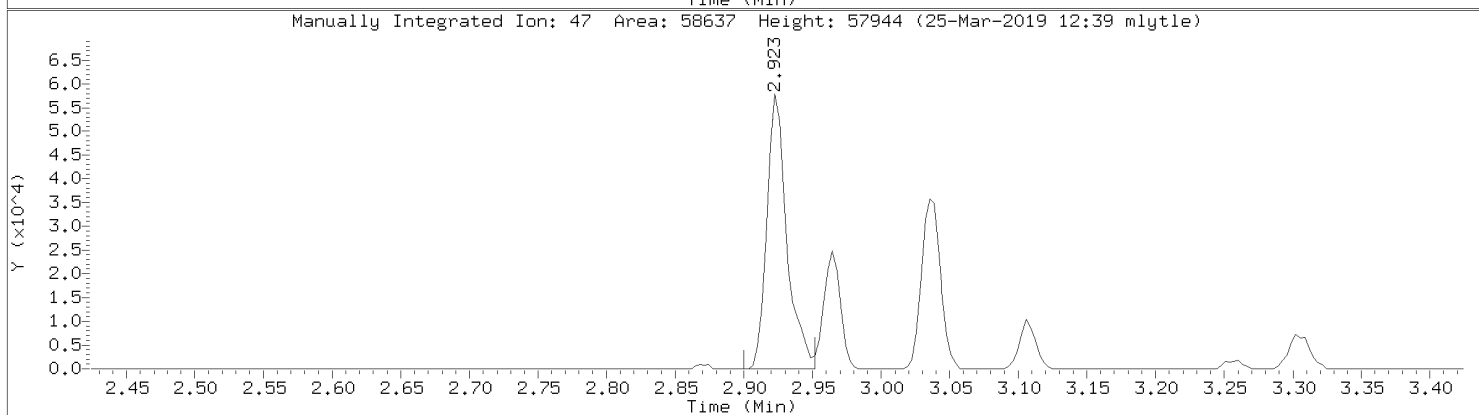
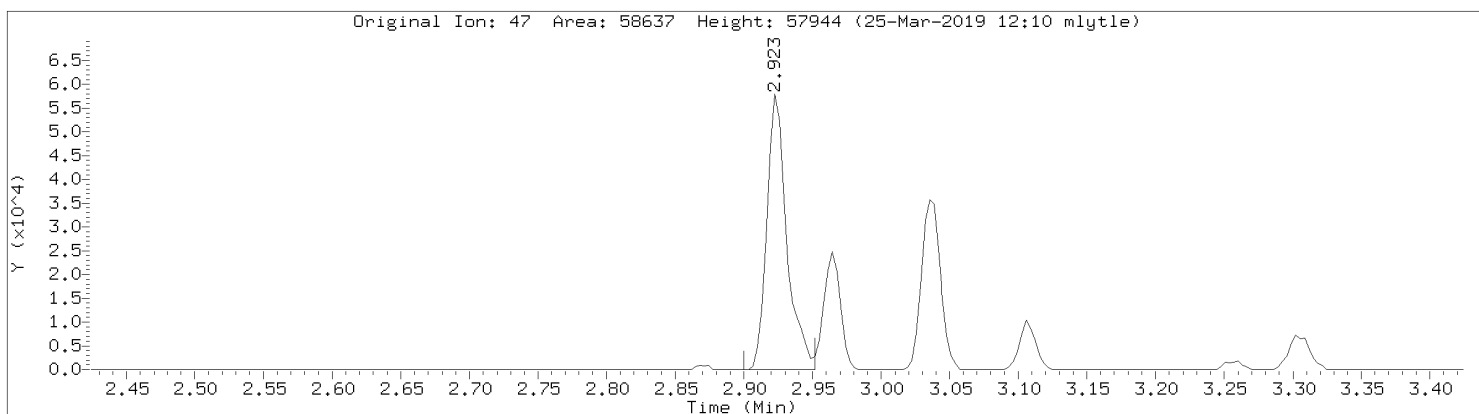


Data File: \\192.168.10.12\chem\10airH.i\032519.b\08408.D
Injection Date: 25-MAR-2019 09:13
Instrument: 10airH.i
Lab Sample ID: CAL5

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6



Data File: \\192.168.10.12\chem\10airH.i\032519.b\08408.D
Injection Date: 25-MAR-2019 09:13
Instrument: 10airH.i
Lab Sample ID: CAL5



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airH.i\032519.b\08409.D
 Lab Smp Id: CAL4
 Inj Date : 25-MAR-2019 09:39
 Operator : MJL Inst ID: 10airH.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Meth Date : 25-Mar-2019 12:39 10airH.i Quant Type: ISTD
 Cal Date : 25-MAR-2019 09:13 Cal File: 08408.D
 Als bottle: 9 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 1,1-Difluoroethane	65		2.922	2.922	(0.538)	9524	1.00000	0.977 (QM)
2 Chlorodifluoromethane	67		2.935	2.935	(0.540)	5151	1.00000	0.946 (QM)
3 Propylene	41		2.945	2.945	(0.542)	13954	1.00000	0.959
4 Dichlorodifluoromethane	85		2.964	2.964	(0.546)	48751	1.00000	0.945
5 Dichlorotetrafluoroethane	85		3.035	3.035	(0.559)	44879	1.00000	0.937
6 Chloromethane	50		3.038	3.038	(0.559)	21108	1.00000	0.930
7 Vinyl chloride	62		3.106	3.106	(0.572)	16117	1.00000	0.919
8 1,3-Butadiene	54		3.141	3.141	(0.578)	12579	1.00000	0.962
9 Bromomethane	94		3.257	3.257	(0.599)	14598	1.00000	0.897
10 Chloroethane	64		3.299	3.299	(0.607)	7705	1.00000	0.934
11 Ethanol	45		3.308	3.308	(0.609)	39641	5.00000	4.69
12 Vinyl Bromide	106		3.408	3.408	(0.627)	13576	1.00000	0.910
13 Isopentane	43		3.421	3.421	(0.630)	20793	1.00000	0.913
14 Freon 123	83		3.456	3.456	(0.636)	35744	1.00000	0.907
15 Trichlorofluoromethane	101		3.482	3.482	(0.641)	45031	1.00000	0.899
16 Acrolein	56		3.482	3.482	(0.641)	16200	2.50000	2.26
17 Acetone	43		3.504	3.504	(0.645)	180805	5.00000	4.78 (M)
18 Isopropyl Alcohol	45		3.524	3.524	(0.649)	174334	5.00000	4.67 (M)
19 1,1-Dichloroethene	61		3.694	3.694	(0.680)	29963	1.00000	0.913
20 Acrylonitrile	53		3.700	3.700	(0.681)	33936	2.50000	2.42
21 Tert Butyl Alcohol (TBA)	59		3.723	3.723	(0.685)	43304	1.00000	0.965
22 Methyl Acetate	43		3.726	3.726	(0.686)	44395	1.00000	0.950
23 Freon 113	101		3.729	3.729	(0.686)	33458	1.00000	0.935

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Allyl Chloride	76		3.807	3.807	(0.701)	7080	1.00000	0.934	
25 Methylene chloride	49		3.807	3.807	(0.701)	121411	5.00000	4.69	
26 Carbon Disulfide	76		3.913	3.913	(0.720)	47825	1.00000	0.950	
27 Methyl Tert Butyl Ether	73		4.061	4.061	(0.747)	47789	1.00000	0.943	
28 trans-1,2-dichloroethene	96		4.073	4.073	(0.750)	15773	1.00000	0.940	
29 Vinyl Acetate	43		4.151	4.151	(0.764)	55986	1.00000	0.927	
30 1,1-Dichloroethane	63		4.199	4.199	(0.773)	33534	1.00000	0.951	
31 Methyl Ethyl Ketone	72		4.311	4.311	(0.793)	10676	1.00000	1.02 (M)	
32 Di-isopropyl Ether	45		4.337	4.337	(0.798)	67552	1.00000	0.930	
33 n-Hexane	57		4.347	4.347	(0.800)	27172	1.00000	0.963	
34 Ethyl Acetate	43		4.469	4.469	(0.822)	49278	1.00000	0.969	
35 cis-1,2-Dichloroethene	96		4.488	4.488	(0.826)	17240	1.00000	0.969	
36 Ethyl Tert-Butyl Ether	59		4.559	4.559	(0.839)	59349	1.00000	0.921	
37 Chloroform	83		4.668	4.668	(0.859)	40876	1.00000	0.936	
38 Tetrahydrofuran	42		4.736	4.736	(0.872)	21504	1.00000	0.953	
39 1,1,1-Trichloroethane	97		4.983	4.983	(0.917)	40873	1.00000	0.942	
40 1,2-Dichloroethane	62		5.064	5.064	(0.932)	30496	1.00000	0.958	
41 Benzene	78		5.218	5.218	(0.960)	50853	1.00000	0.933	
42 Carbon tetrachloride	117		5.234	5.234	(0.963)	38616	1.00000	0.911	
43 Cyclohexane	56		5.263	5.263	(0.969)	27627	1.00000	0.953 (M)	
44 Tert Amyl Methyl Ether	73		5.363	5.363	(0.987)	50308	1.00000	0.934	
* 45 1,4-Difluorobenzene	114		5.434	5.434	(1.000)	462479	10.0000		
46 2,2,4-Trimethylpentane	57		5.530	5.530	(1.018)	87129	1.00000	0.930	
47 Heptane	43		5.659	5.659	(1.041)	38084	1.00000	0.972	
48 Trichloroethene	130		5.765	5.765	(1.061)	20280	1.00000	0.931	
49 1,2-Dichloropropane	63		5.806	5.806	(1.069)	20877	1.00000	0.944	
50 Methyl methacrylate	69		5.803	5.803	(1.068)	20317	1.00000	0.988	
51 1,4-Dioxane	88		5.858	5.858	(1.078)	28649	2.50000	2.49	
52 Bromodichloromethane	83		5.967	5.967	(1.098)	44625	1.00000	0.938	
53 Methylcyclohexane	98		6.241	6.241	(1.149)	11379	1.00000	0.957	
54 Methyl Isobutyl Ketone	43		6.311	6.311	(1.162)	52450	1.00000	0.947	
55 cis-1,3-Dichloropropene	75		6.395	6.395	(1.177)	32622	1.00000	0.892	
56 trans-1,3-Dichloropropene	75		6.839	6.839	(1.259)	30269	1.00000	0.945	
57 Toluene	91		6.938	6.938	(1.277)	58689	1.00000	0.914	
58 1,1,2-Trichloroethane	97		7.064	7.064	(1.300)	20213	1.00000	0.905	
59 Methyl Butyl Ketone	43		7.157	7.157	(0.850)	52372	1.00000	1.02	
60 n-Octane	43		7.363	7.363	(0.874)	48833	1.00000	0.911	
61 Dibromochloromethane	129		7.601	7.601	(0.902)	37580	1.00000	0.932	
62 Tetrachloroethene	166		7.681	7.681	(0.912)	23707	1.00000	0.975	
63 1,2-Dibromoethane	107		7.800	7.800	(0.926)	34283	1.00000	0.953	
* 64 Chlorobenzene - d5	117		8.424	8.424	(1.000)	397172	10.0000		
65 Chlorobenzene	112		8.472	8.472	(1.006)	43062	1.00000	0.933	
66 Ethyl Benzene	91		8.687	8.687	(1.031)	78464	1.00000	0.915	
67 m&p-Xylene	91		8.871	8.871	(1.053)	122759	2.00000	1.81 (M)	
68 n-Nonane	43		9.212	9.212	(1.093)	53560	1.00000	0.947	
69 Styrene	104		9.279	9.279	(1.102)	38865	1.00000	0.907 (M)	
70 o-Xylene	91		9.311	9.311	(1.105)	63494	1.00000	0.915	
71 Bromoform	173		9.382	9.382	(1.114)	25508	1.00000	0.875	
72 1,1,2,2-Tetrachloroethane	83		9.723	9.723	(1.154)	45502	1.00000	0.930	
73 Isopropylbenzene	105		9.861	9.861	(1.171)	75700	1.00000	0.931	
74 N-Propylbenzene	91		10.427	10.427	(1.238)	98408	1.00000	0.910	
75 4-Ethyltoluene	105		10.613	10.613	(1.260)	73725	1.00000	0.941	
76 1,3,5-Trimethylbenzene	105		10.684	10.684	(1.268)	66017	1.00000	0.895	
77 n-Decane	57		11.038	11.038	(2.031)	49685	1.00000	0.908	

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
78 Tert-Butyl Benzene	119		11.134	11.134	(1.322)	58116	1.00000	0.954
79 1,2,4-Trimethylbenzene	105		11.179	11.179	(1.327)	66702	1.00000	0.886
80 Sec- Butylbenzene	105		11.440	11.440	(1.358)	90398	1.00000	0.929
81 1,3-Dichlorobenzene	146		11.475	11.475	(1.362)	33058	1.00000	0.913
82 Benzyl Chloride	91		11.543	11.543	(1.370)	40044	1.00000	0.885
83 1,4-Dichlorobenzene	146		11.607	11.607	(1.378)	31879	1.00000	0.907
84 p-Isopropyltoluene	119		11.642	11.642	(1.382)	73906	1.00000	0.929
85 1,2,3-Trimethylbenzene	105		11.662	11.662	(1.384)	64221	1.00000	0.936
86 1,2-Dichlorobenzene	146		11.912	11.912	(1.414)	32003	1.00000	0.919
87 N-Butylbenzene	91		12.092	12.092	(1.435)	73727	1.00000	0.924
88 1,2-Dibromo-3-Chloropropane	157		12.610	12.610	(1.497)	14203	1.00000	0.851
89 1,2,4-Trichlorobenzene	180		13.555	13.555	(1.609)	17712	1.00000	0.919
90 Naphthalene	128		13.694	13.694	(1.626)	54602	1.00000	0.984
91 Hexachlorobutadiene	225		13.803	13.803	(1.639)	20089	1.00000	0.952

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airH.i\032519.b\08409.D
Report Date: 25-Mar-2019 12:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airH.i
Lab File ID: 08409.D
Lab Smp Id: CAL4
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
Misc Info:

Calibration Date: 25-MAR-2019
Calibration Time: 09:13

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	451734	271040	632428	462479	2.38
64 Chlorobenzene - d	397119	238271	555967	397172	0.01

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.43	5.10	5.76	5.43	0.00
64 Chlorobenzene - d	8.43	8.10	8.76	8.42	-0.04

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

Data File: \\192.168.10.12\chem\10airH.i\032519.b\08409.D

Date : 25-MAR-2019 09:39

Client ID:

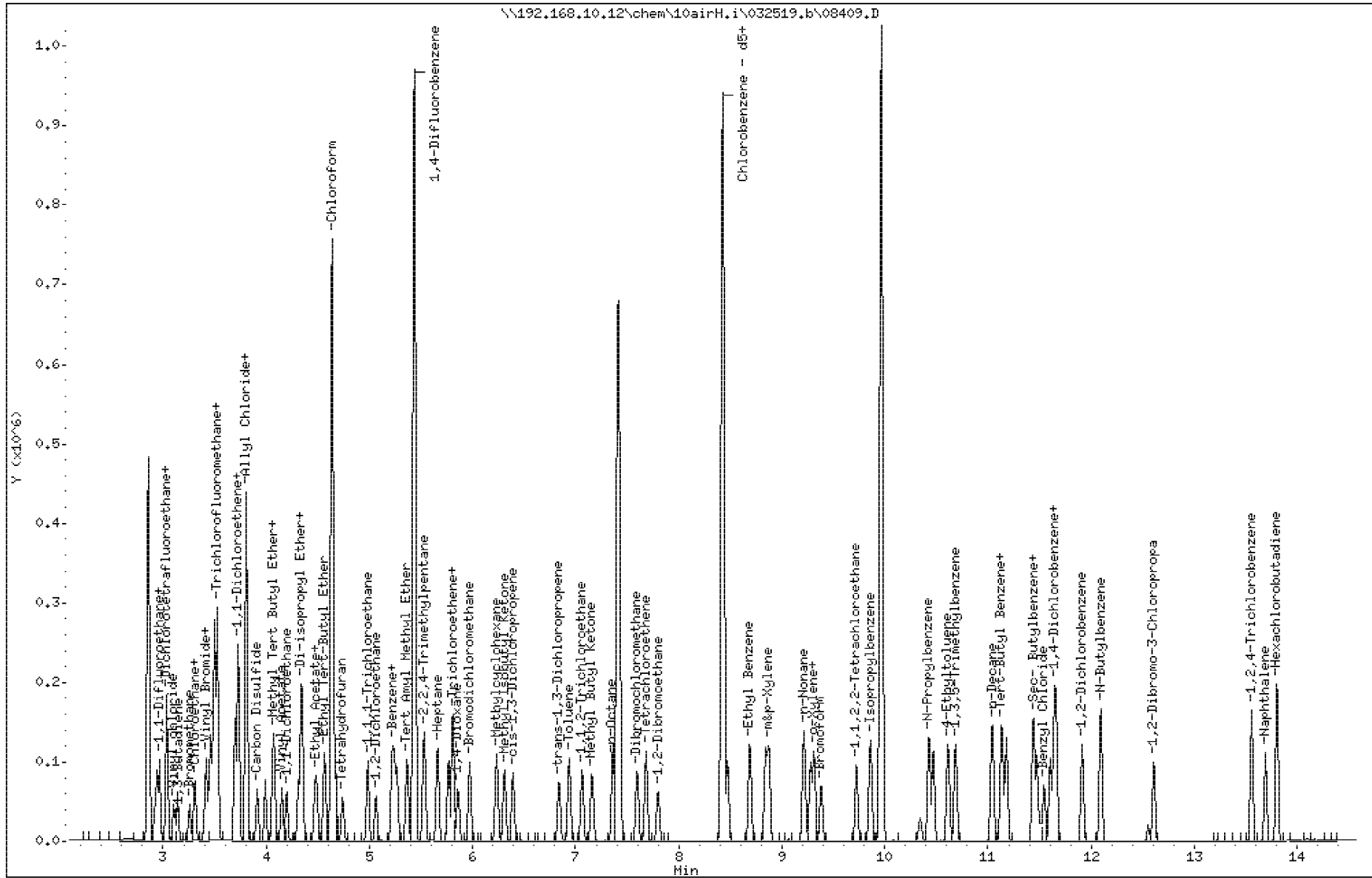
Sample Info:

Column phase: ZB-5MSplus SN338857

Instrument: 10airH.i

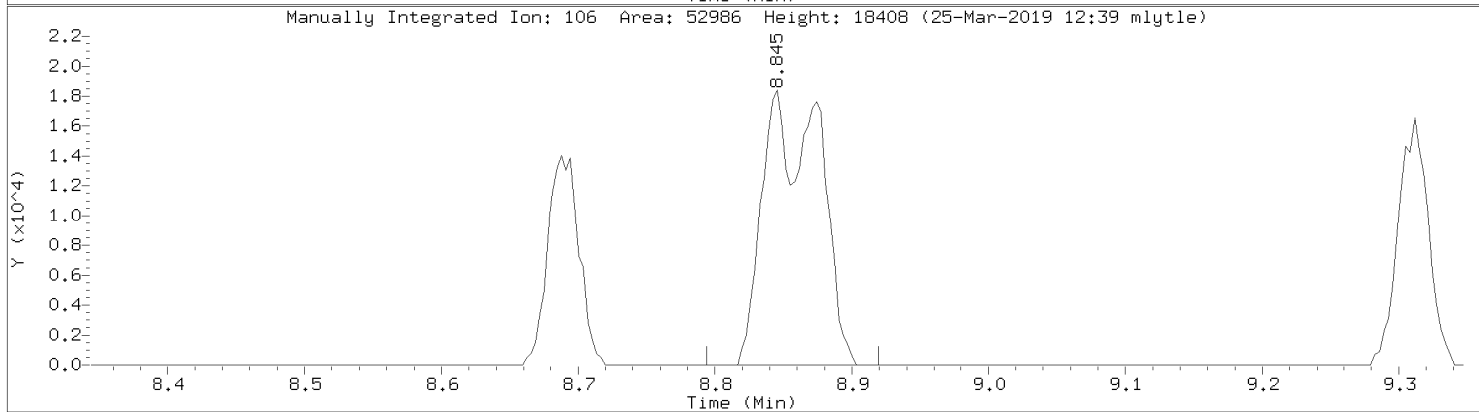
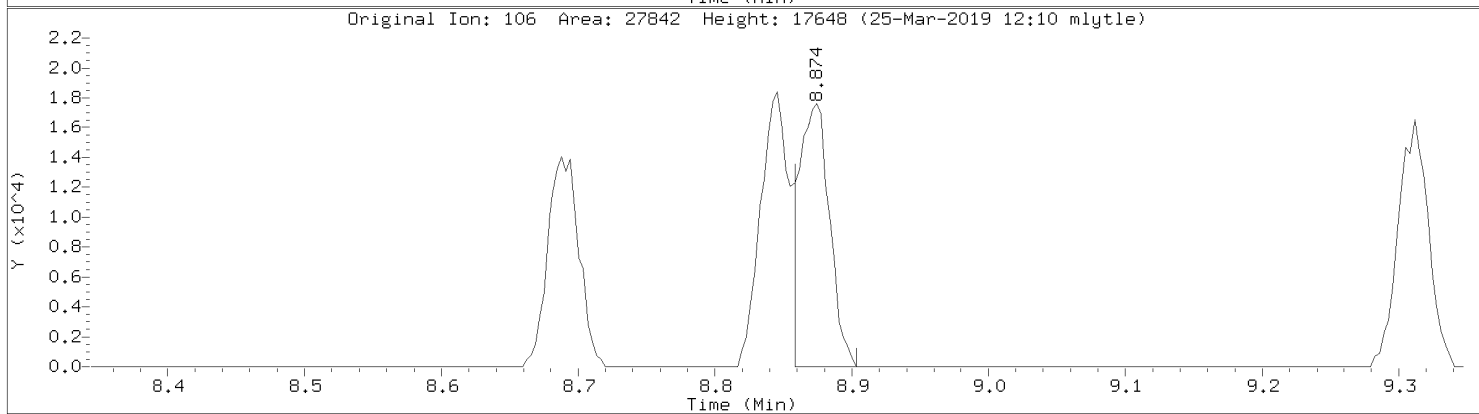
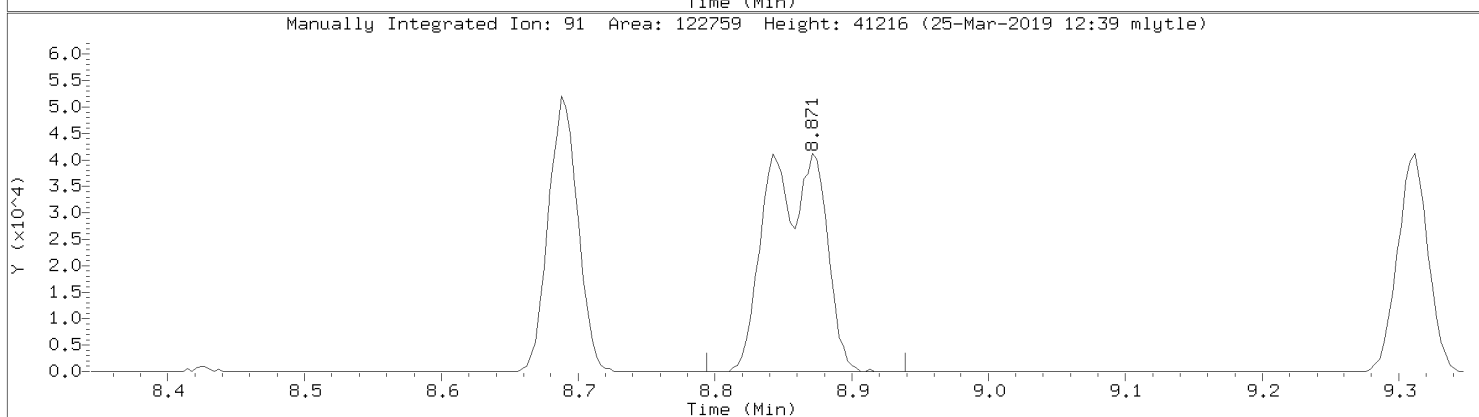
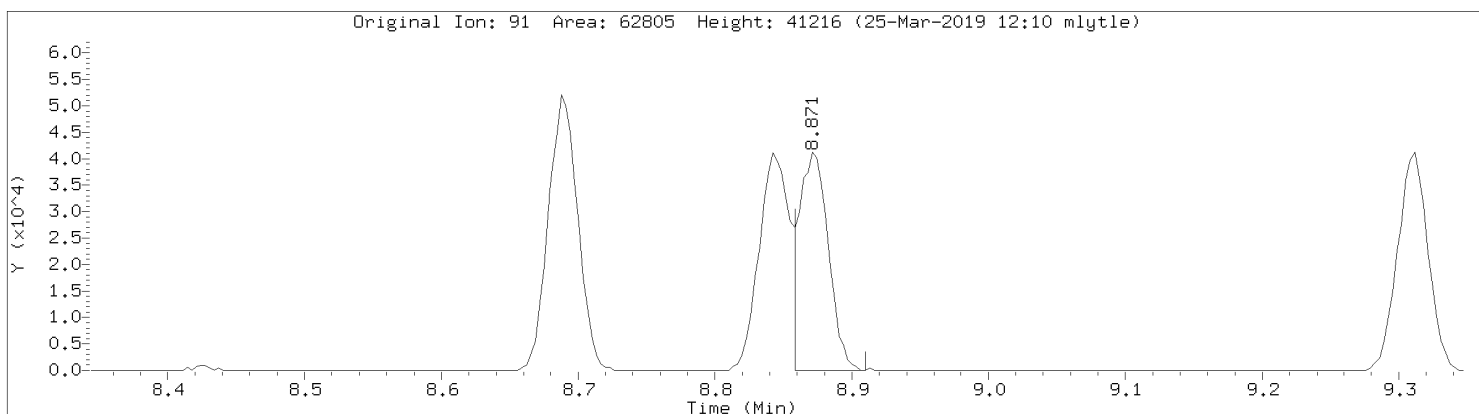
Operator: MJL

Column diameter: 0.32



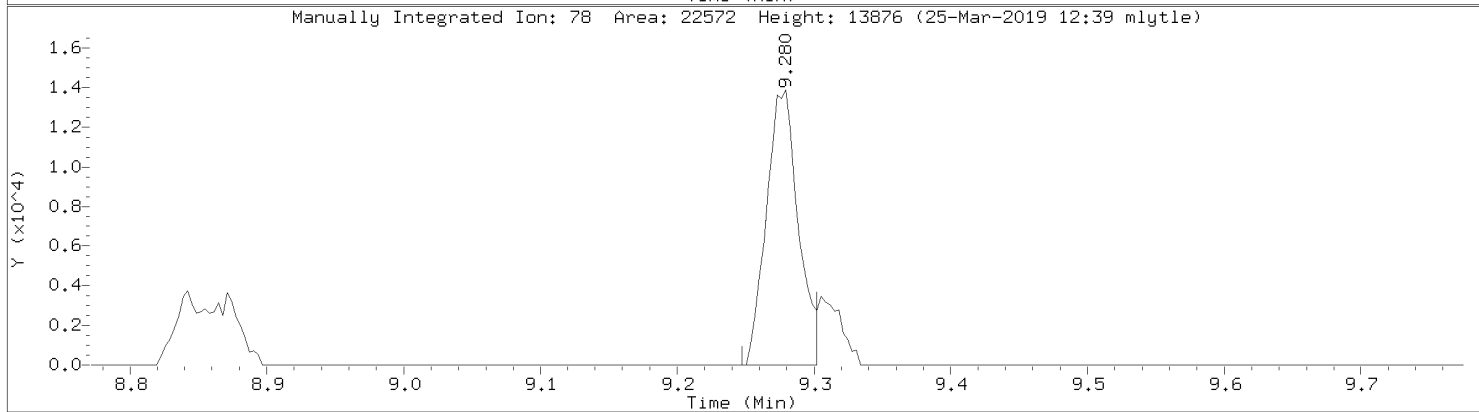
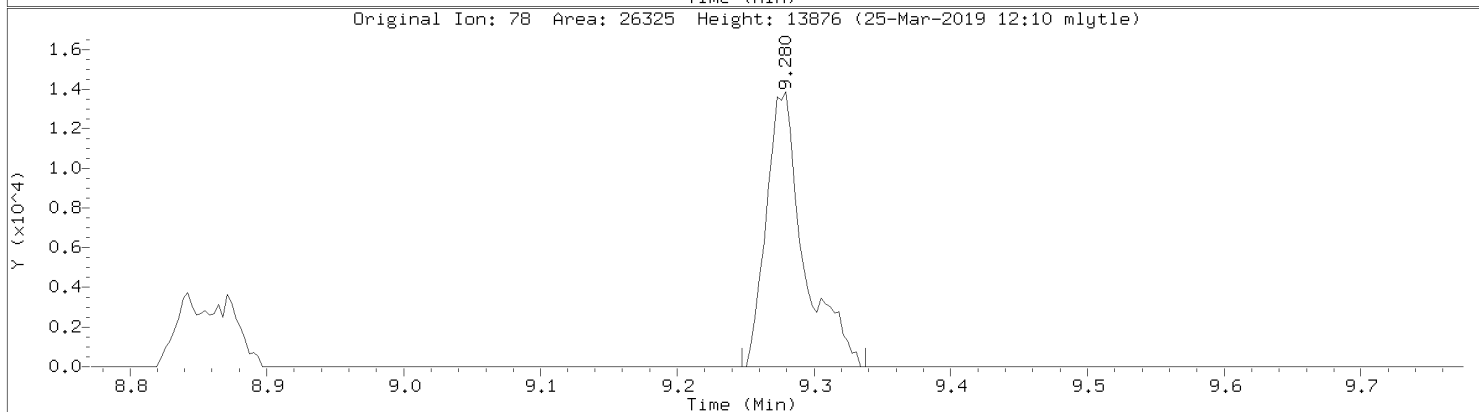
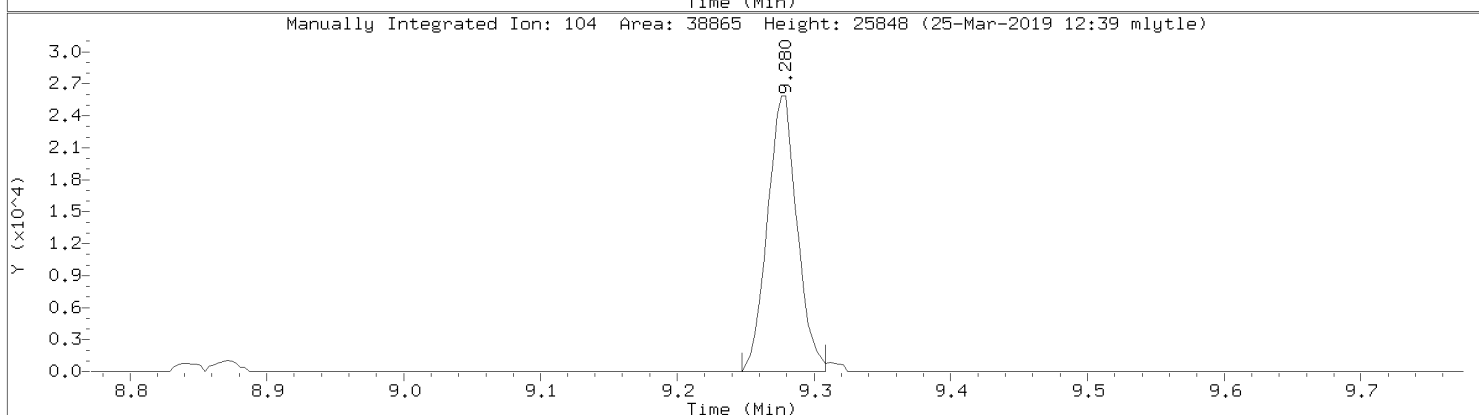
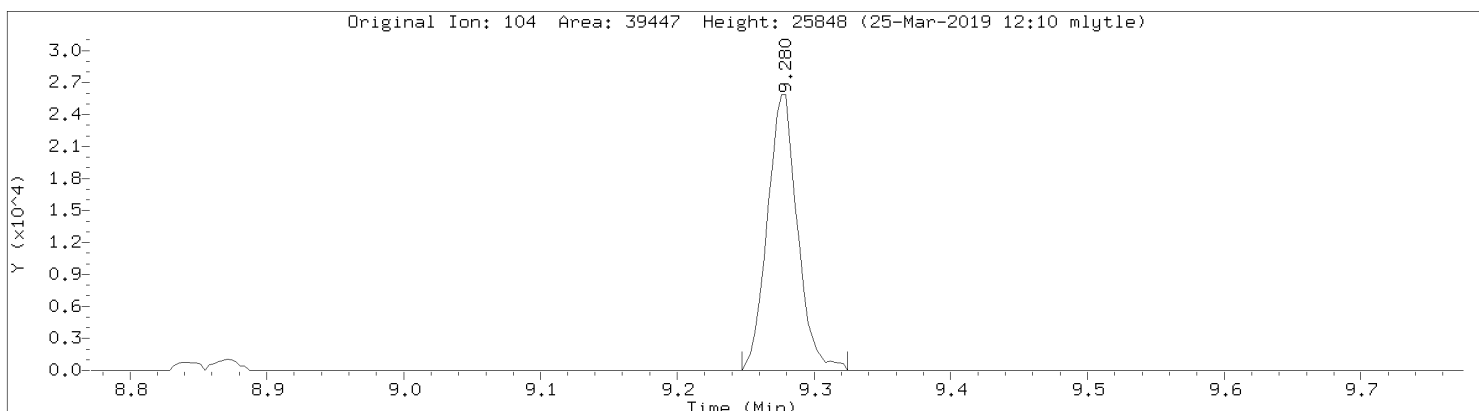
Data File: \\192.168.10.12\chem\10airH.i\032519.b\08409.D
Injection Date: 25-MAR-2019 09:39
Instrument: 10airH.i
Lab Sample ID: CAL4

Compound: m&p-Xylene
CAS Number: 7816-60-0

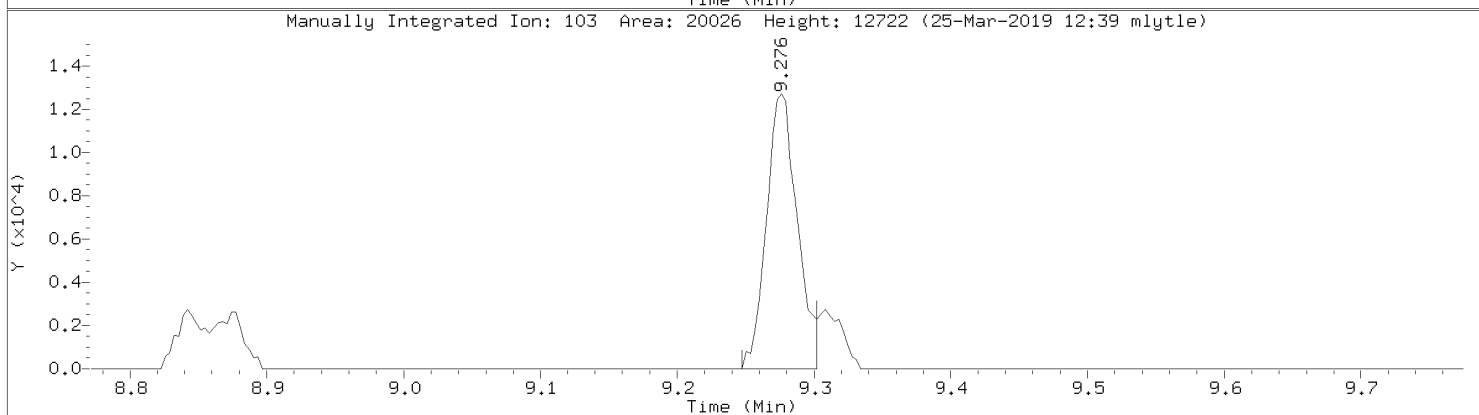
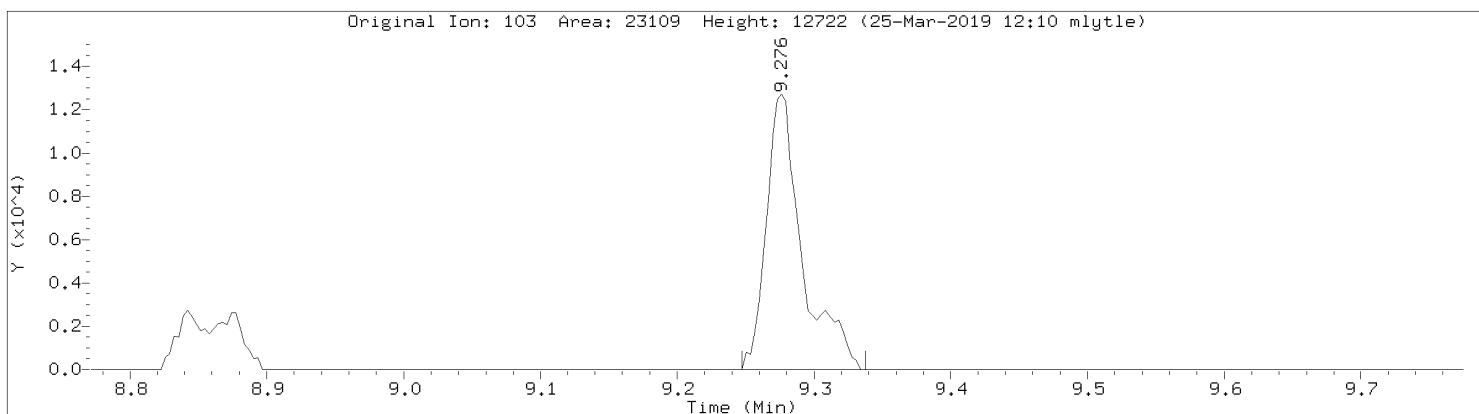


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Injection Date: 25-MAR-2019 09:39
Instrument: 10airH.i
Lab Sample ID: CAL4

Compound: Styrene
CAS Number: 100-42-5

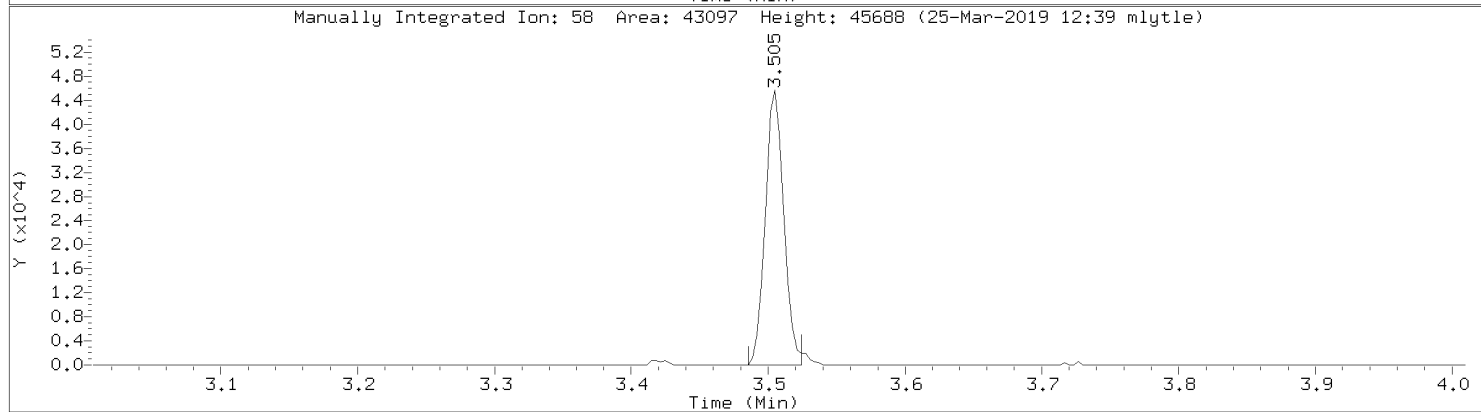
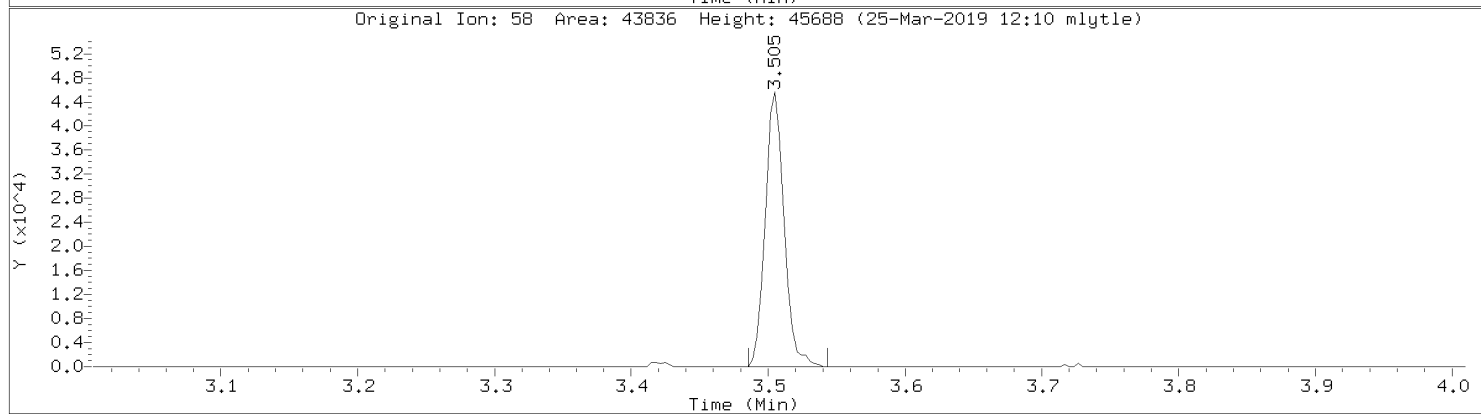
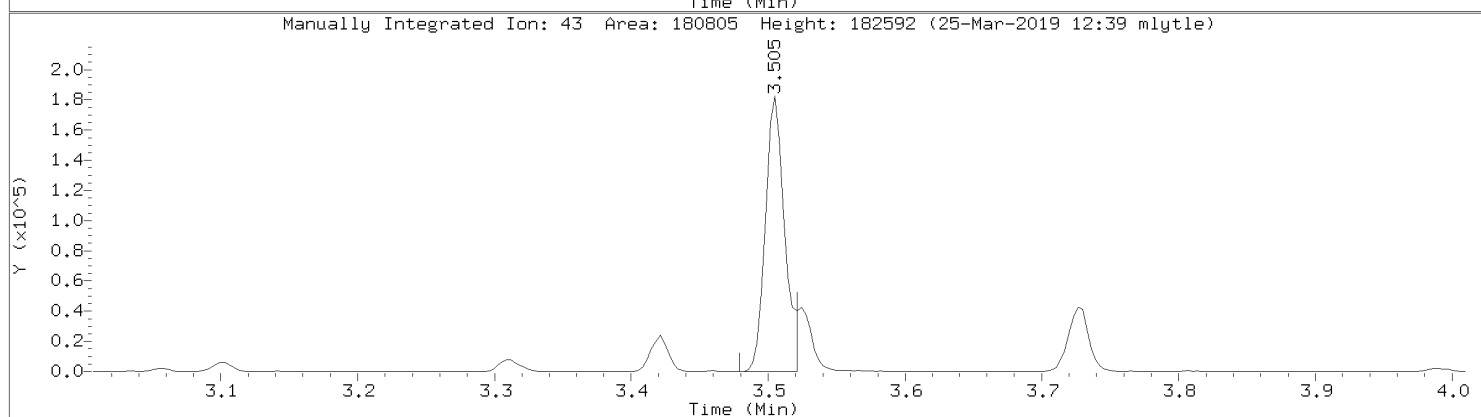
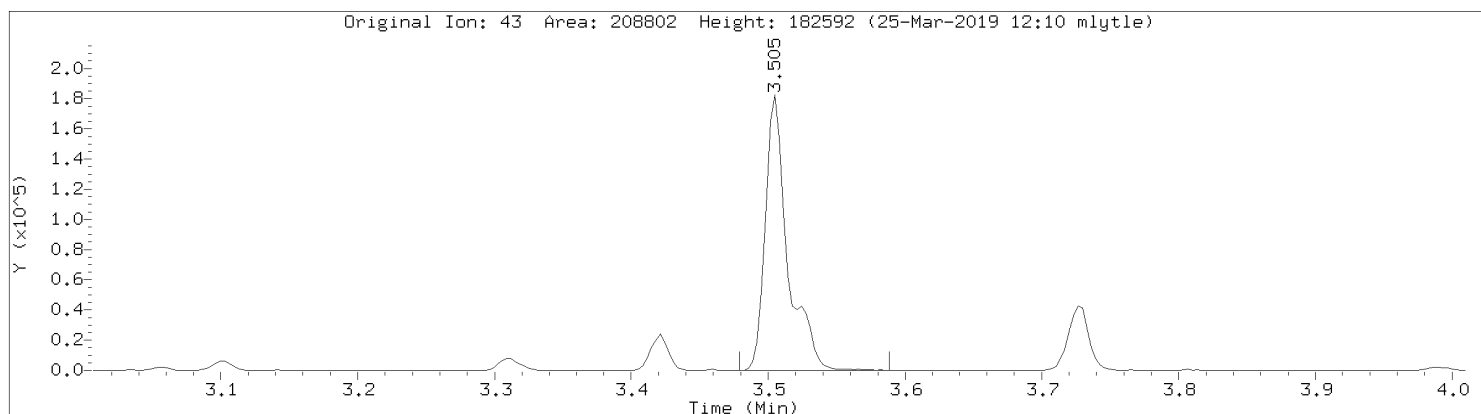


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Injection Date: 25-MAR-2019 09:39
Instrument: 10airH.i
Lab Sample ID: CAL4



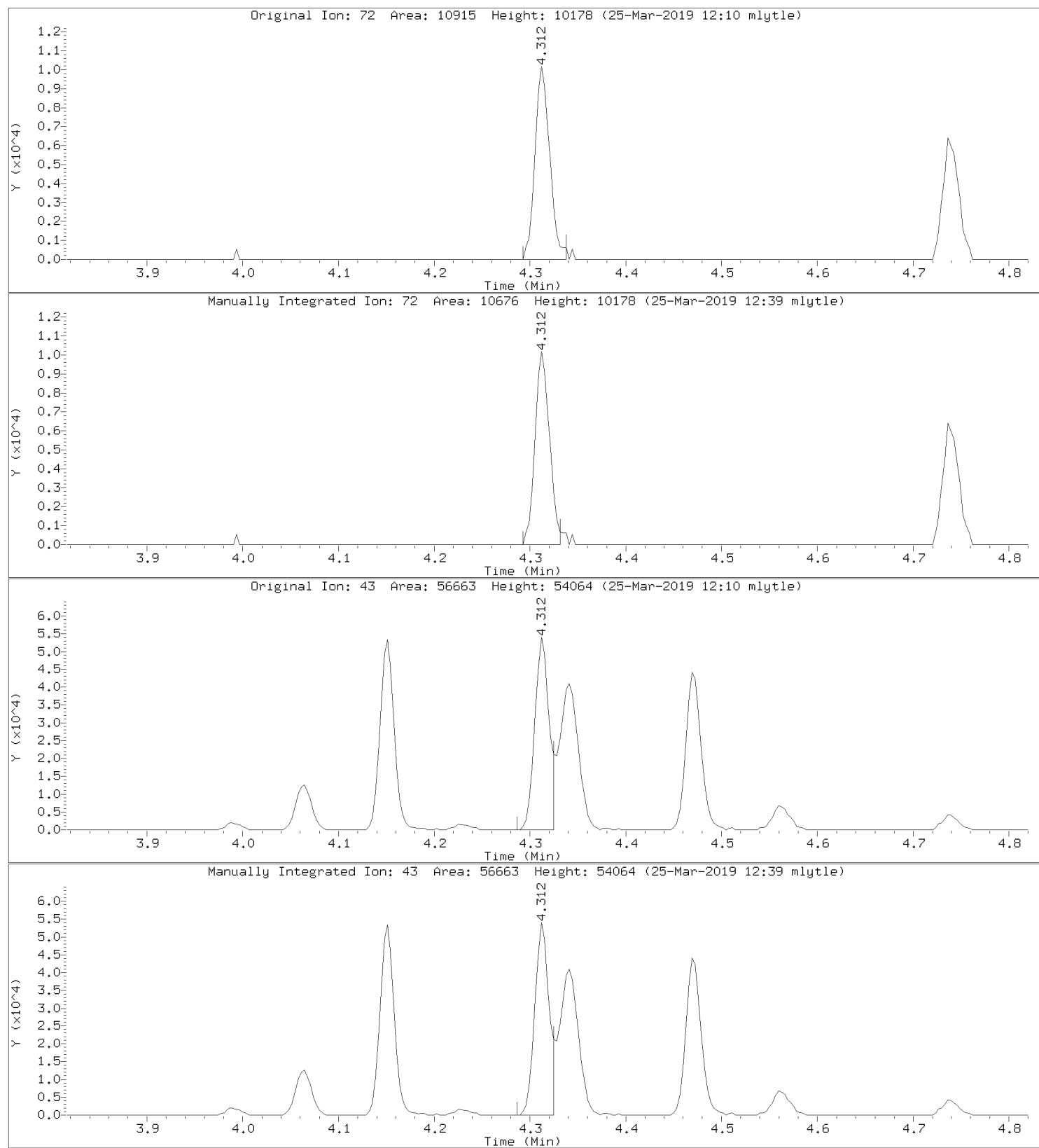
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Injection Date: 25-MAR-2019 09:39
Instrument: 10airH.i
Lab Sample ID: CAL4

Compound: Acetone
CAS Number: 67-64-1



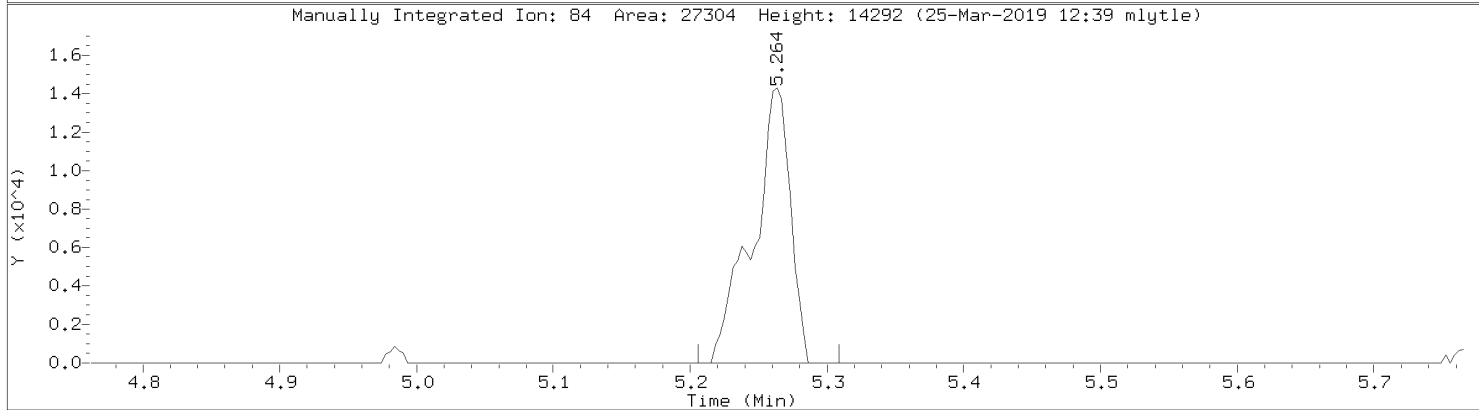
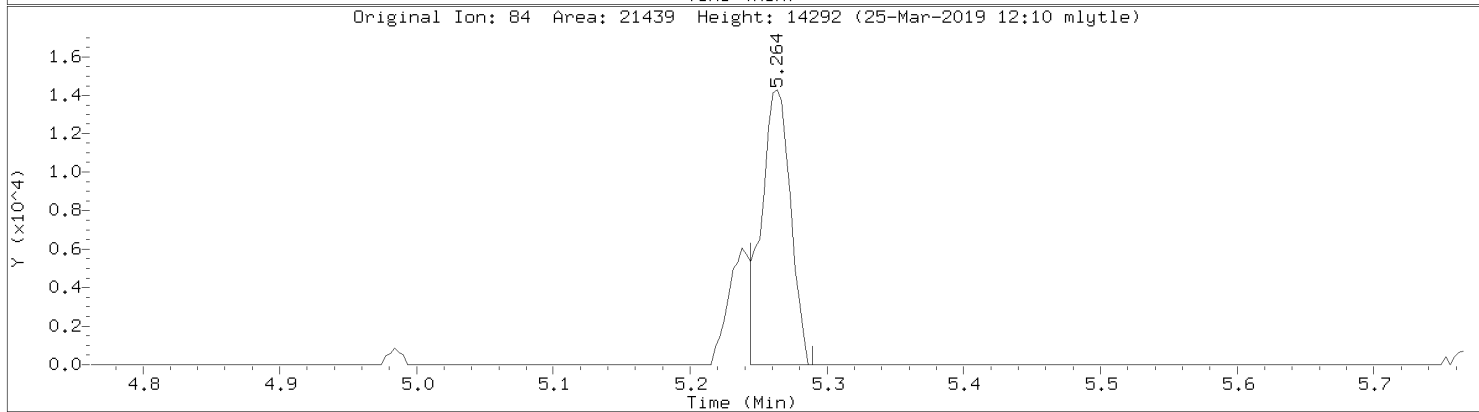
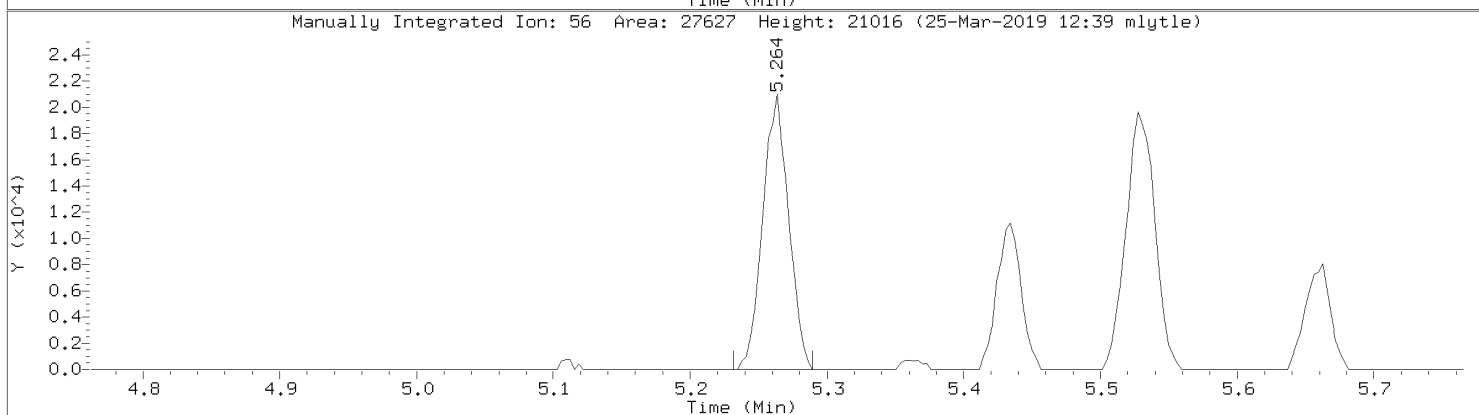
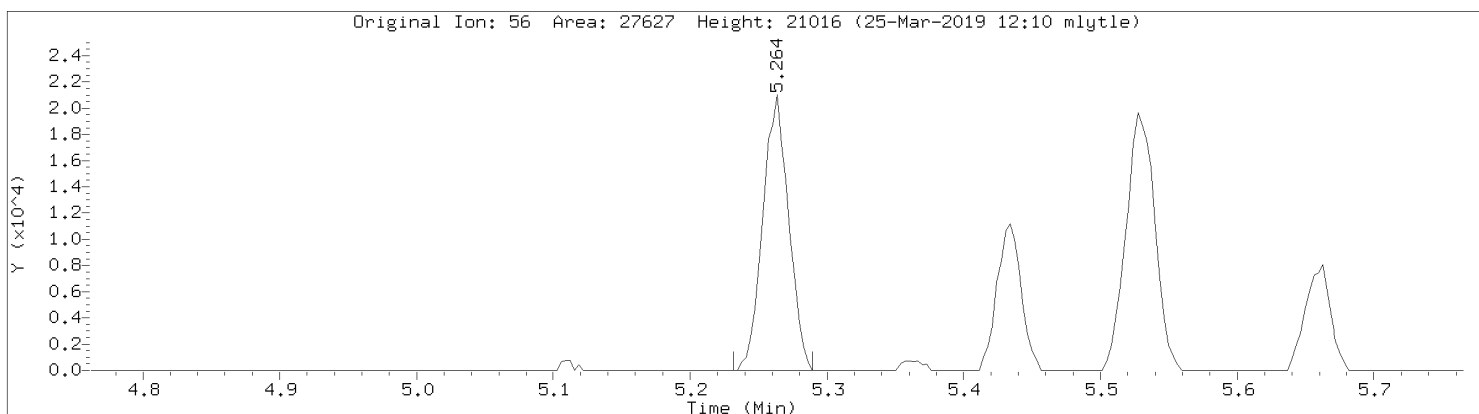
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Injection Date: 25-MAR-2019 09:39
Instrument: 10airH.i
Lab Sample ID: CAL4

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3

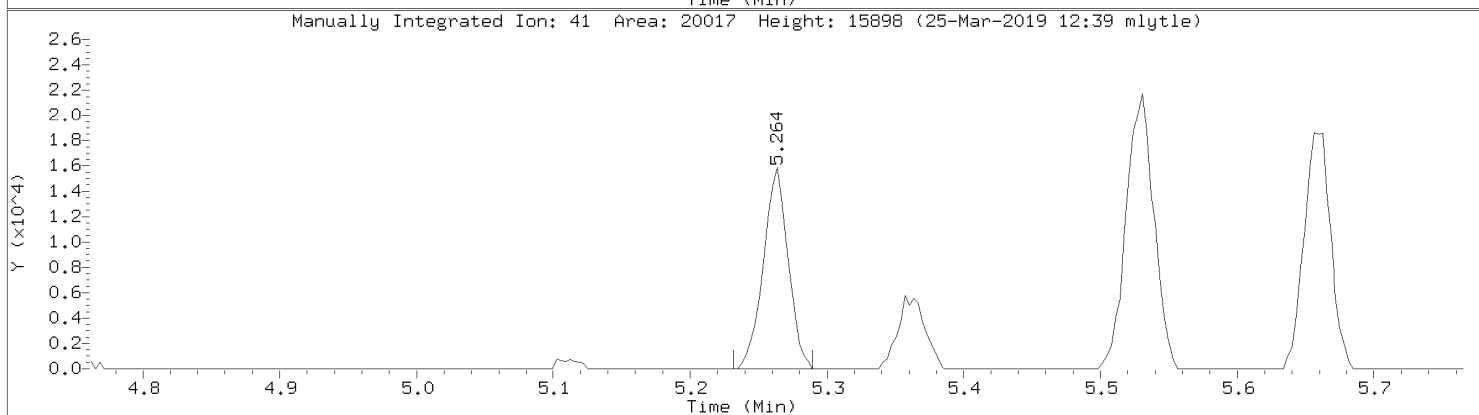
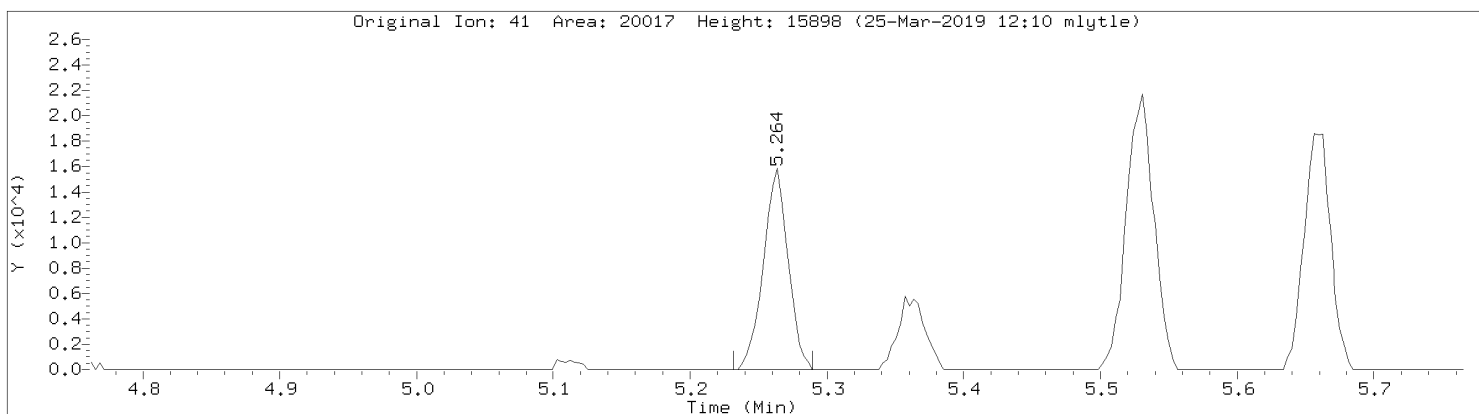


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Injection Date: 25-MAR-2019 09:39
Instrument: 10airH.i
Lab Sample ID: CAL4

Compound: Cyclohexane
CAS Number: 110-82-7

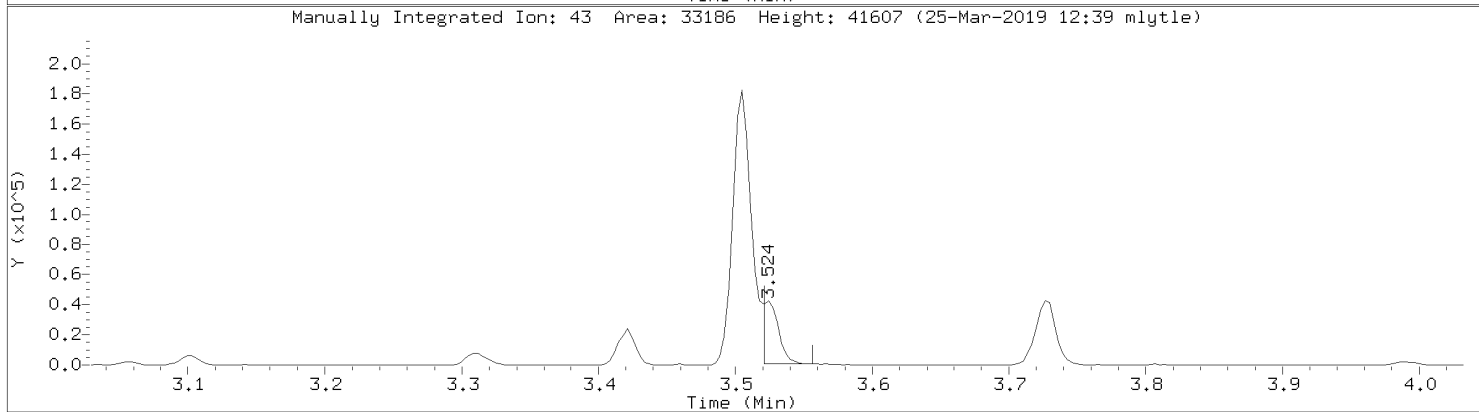
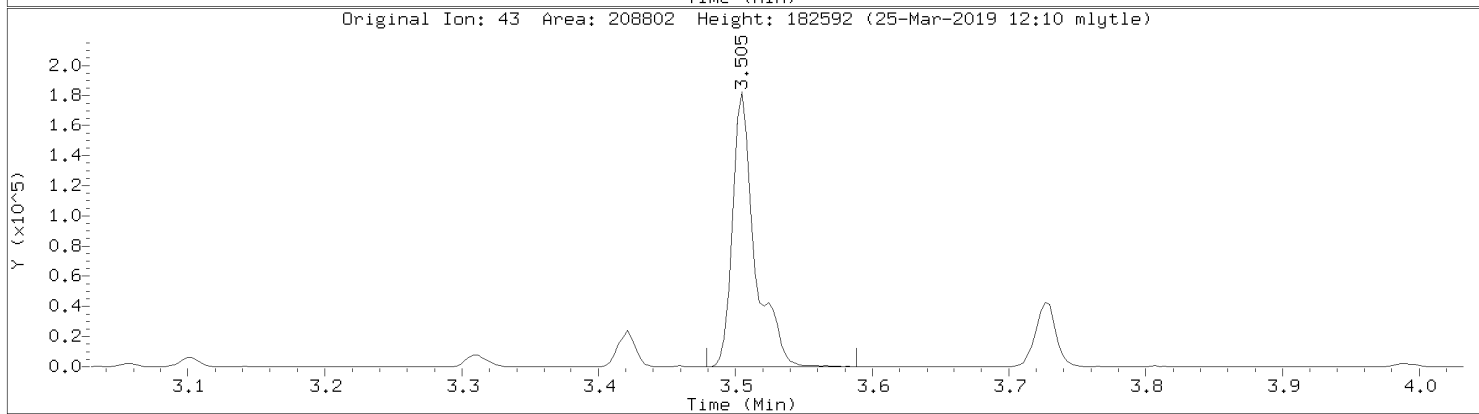
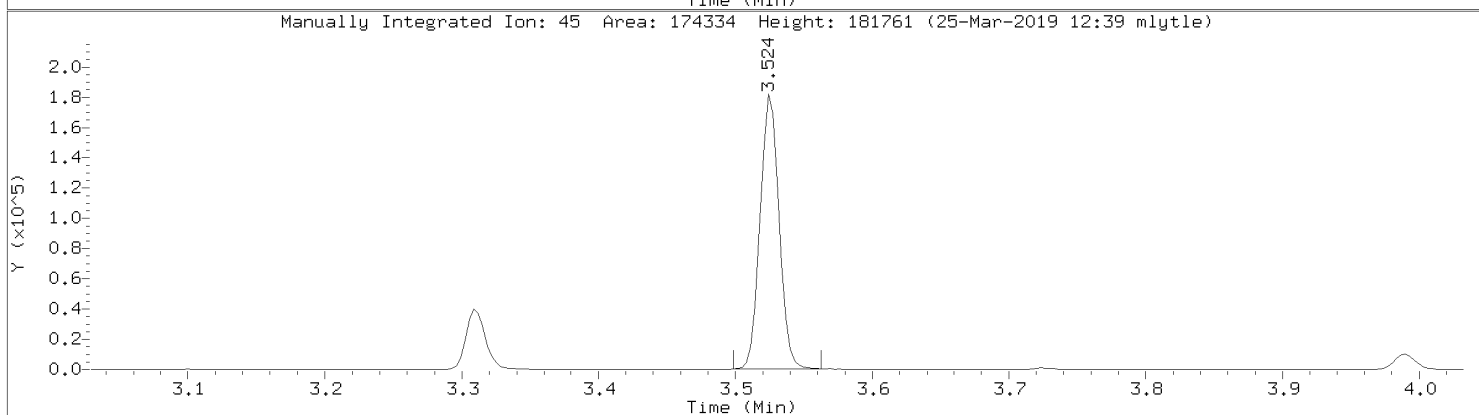
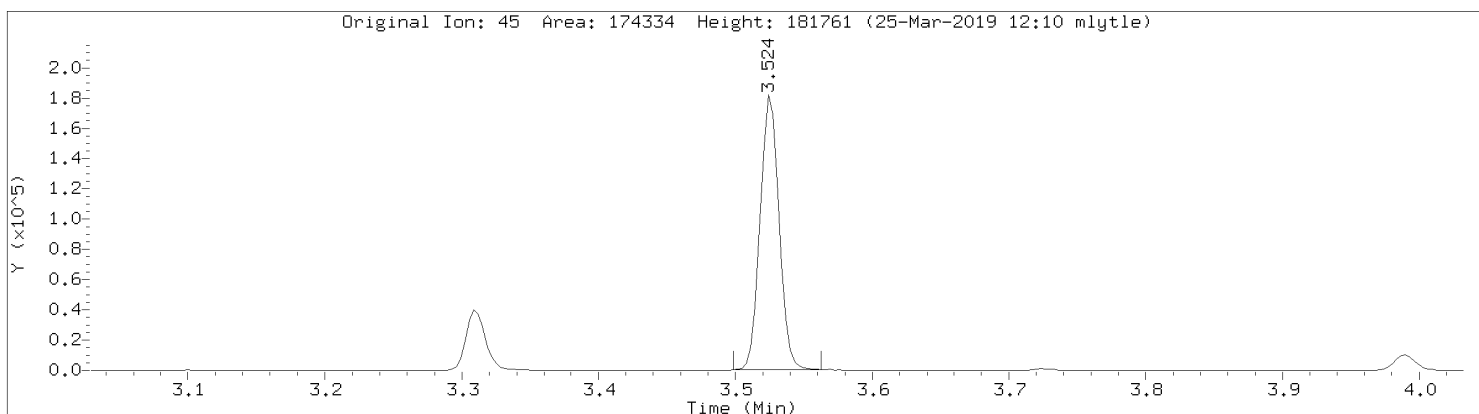


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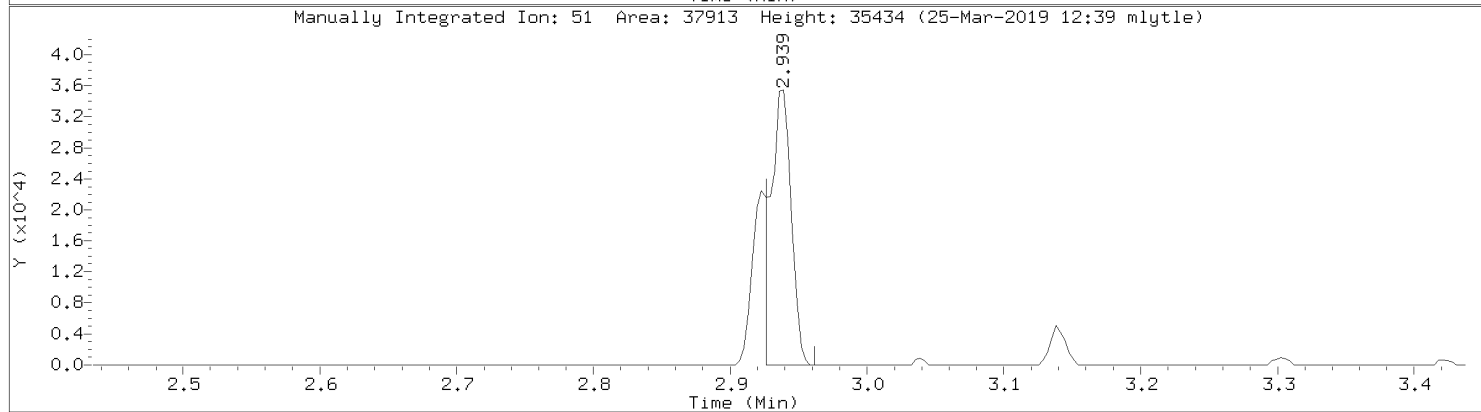
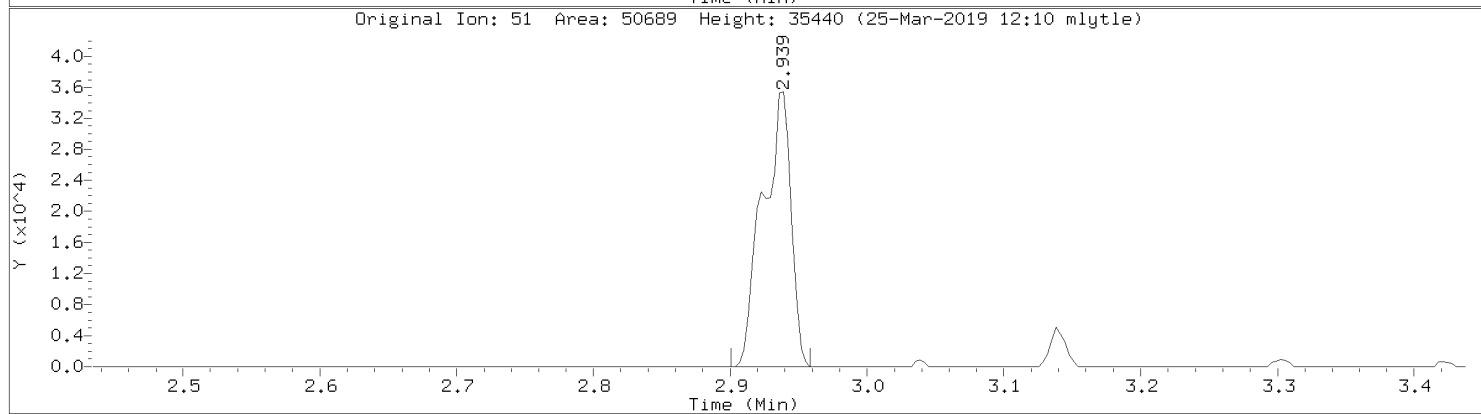
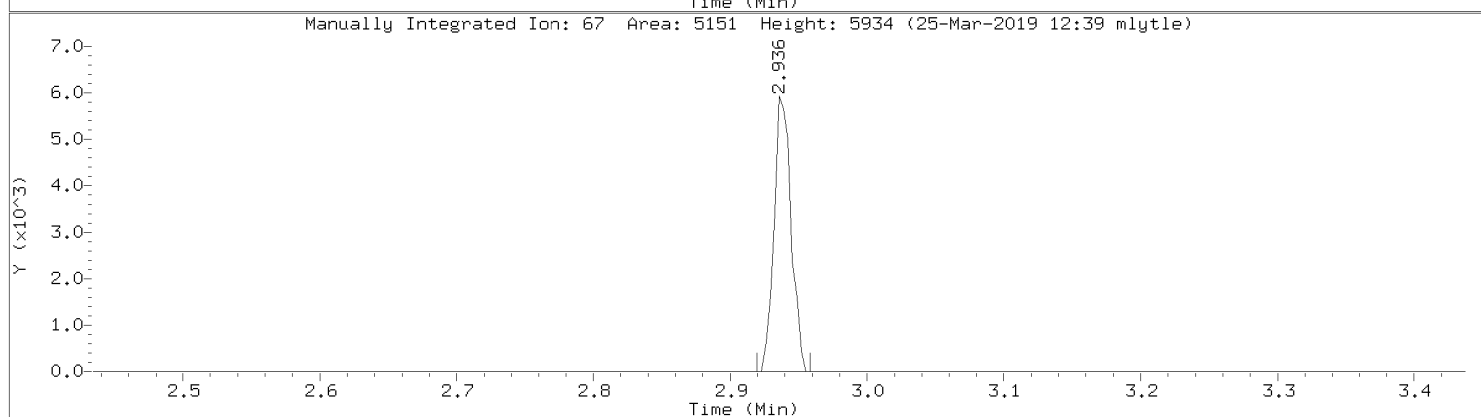
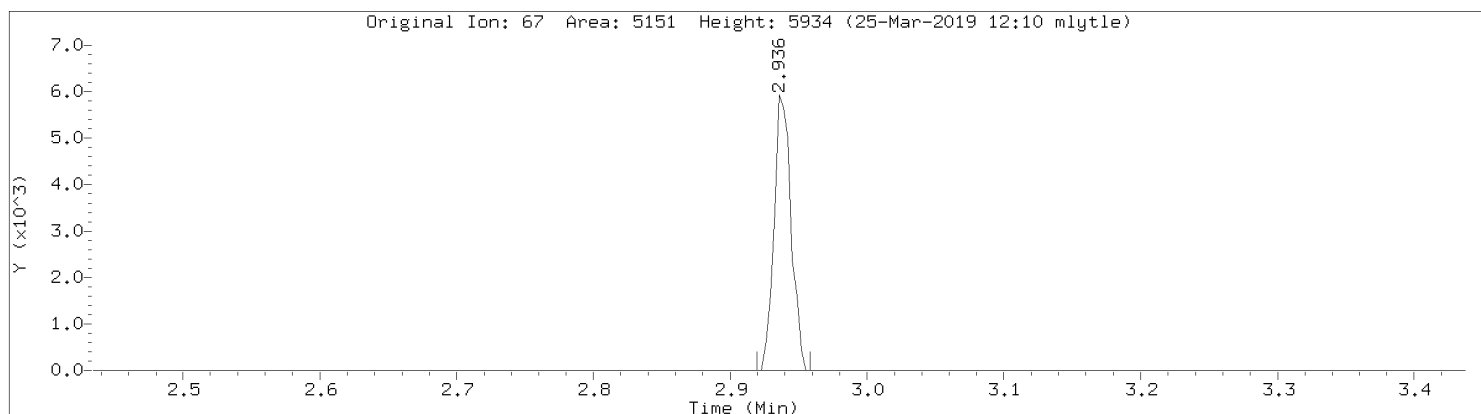
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Injection Date: 25-MAR-2019 09:39
Instrument: 10airH.i
Lab Sample ID: CAL4

Compound: Isopropyl Alcohol
CAS Number: 67-63-0

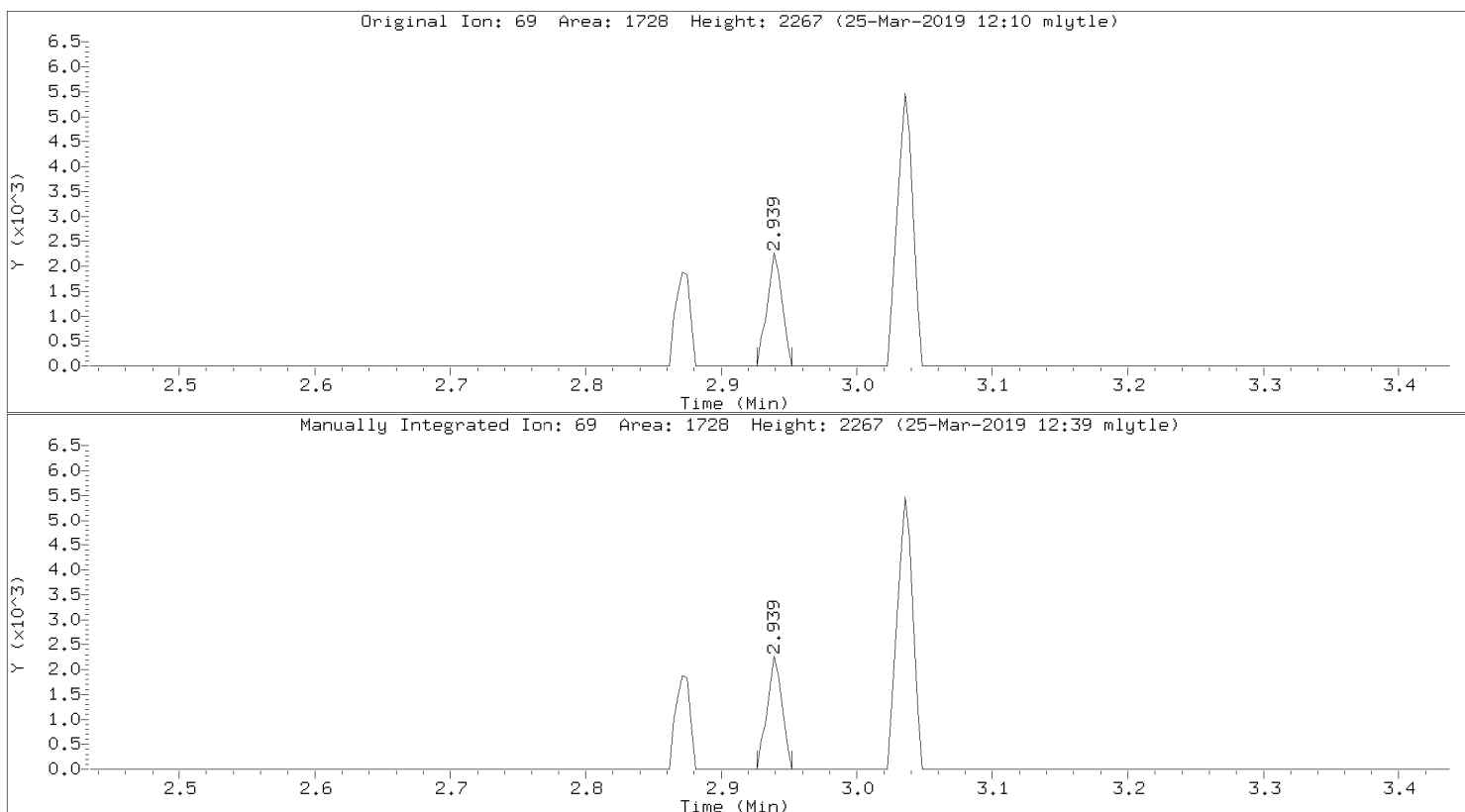


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Injection Date: 25-MAR-2019 09:39
Instrument: 10airH.i
Lab Sample ID: CAL4

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

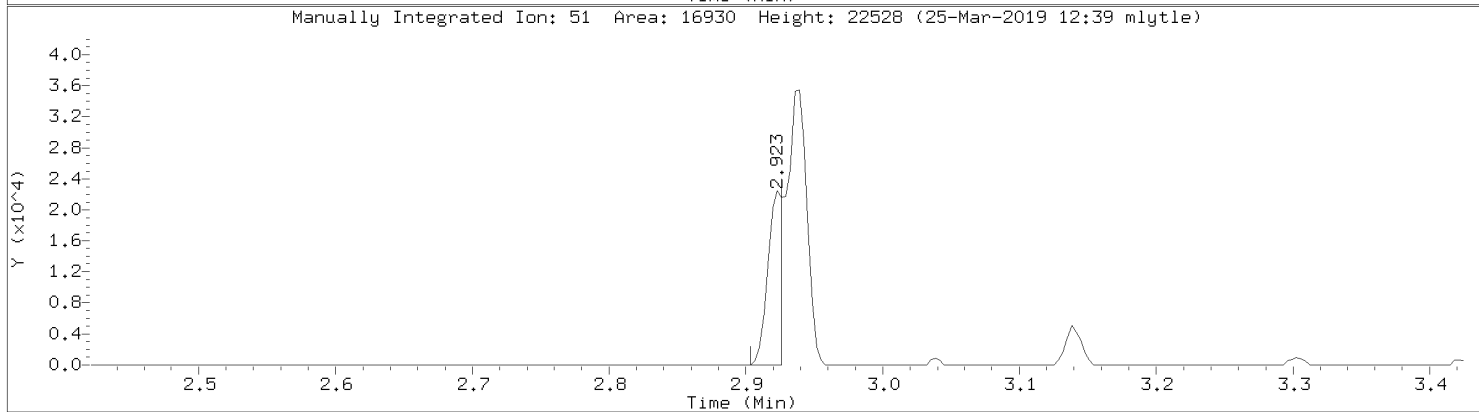
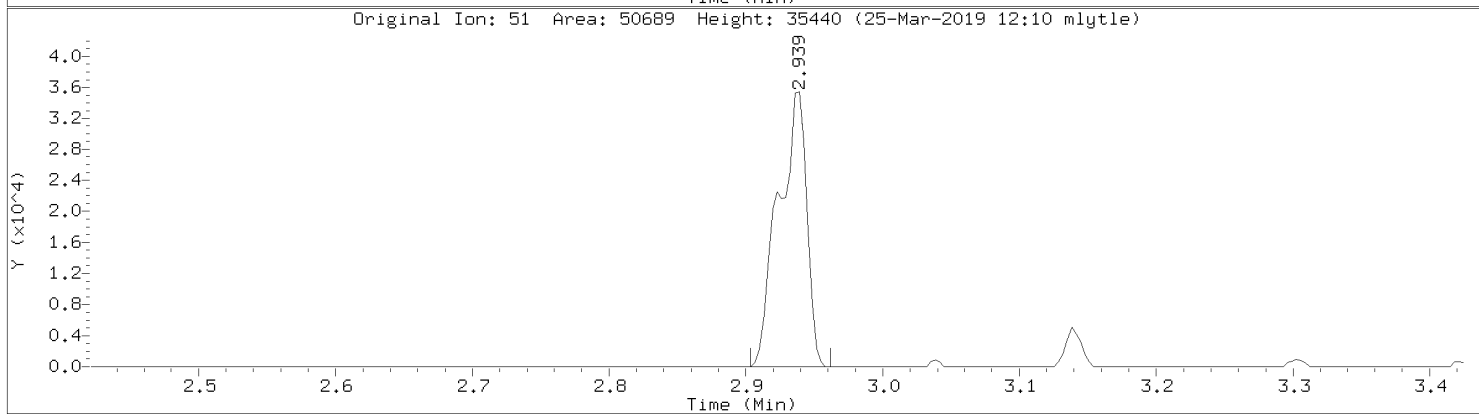
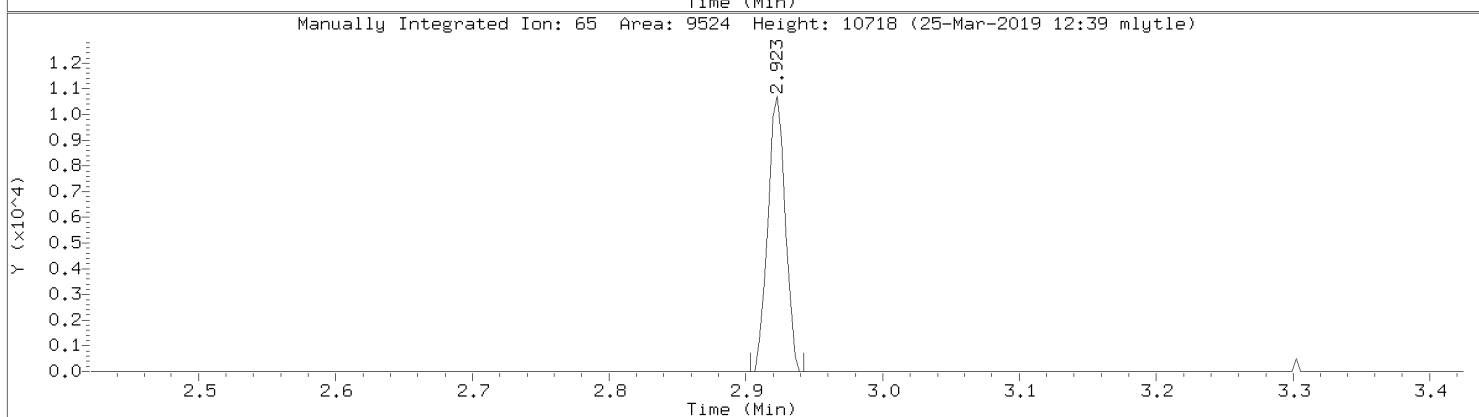
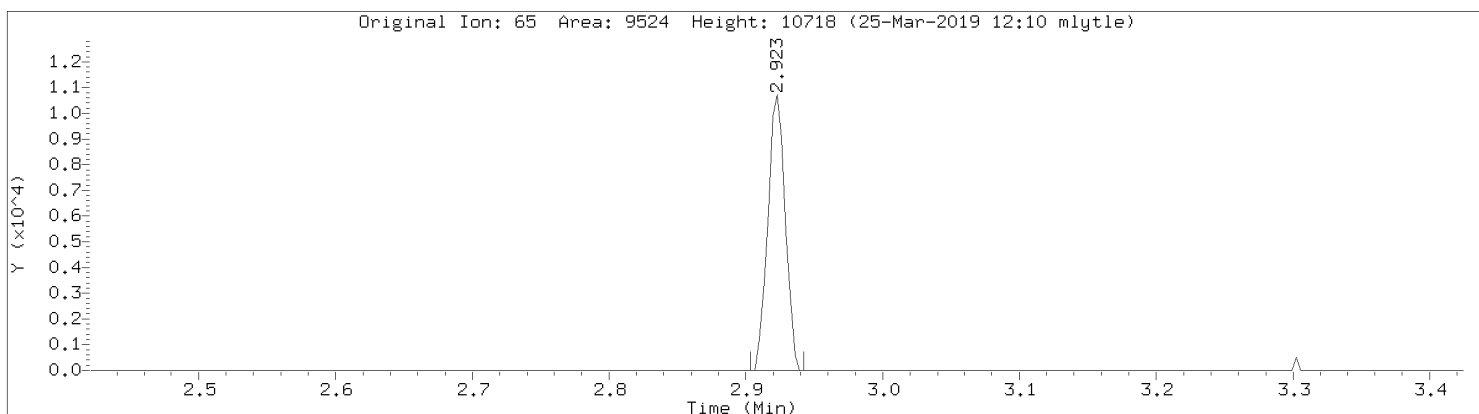


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Injection Date: 25-MAR-2019 09:39
Instrument: 10airH.i
Lab Sample ID: CAL4

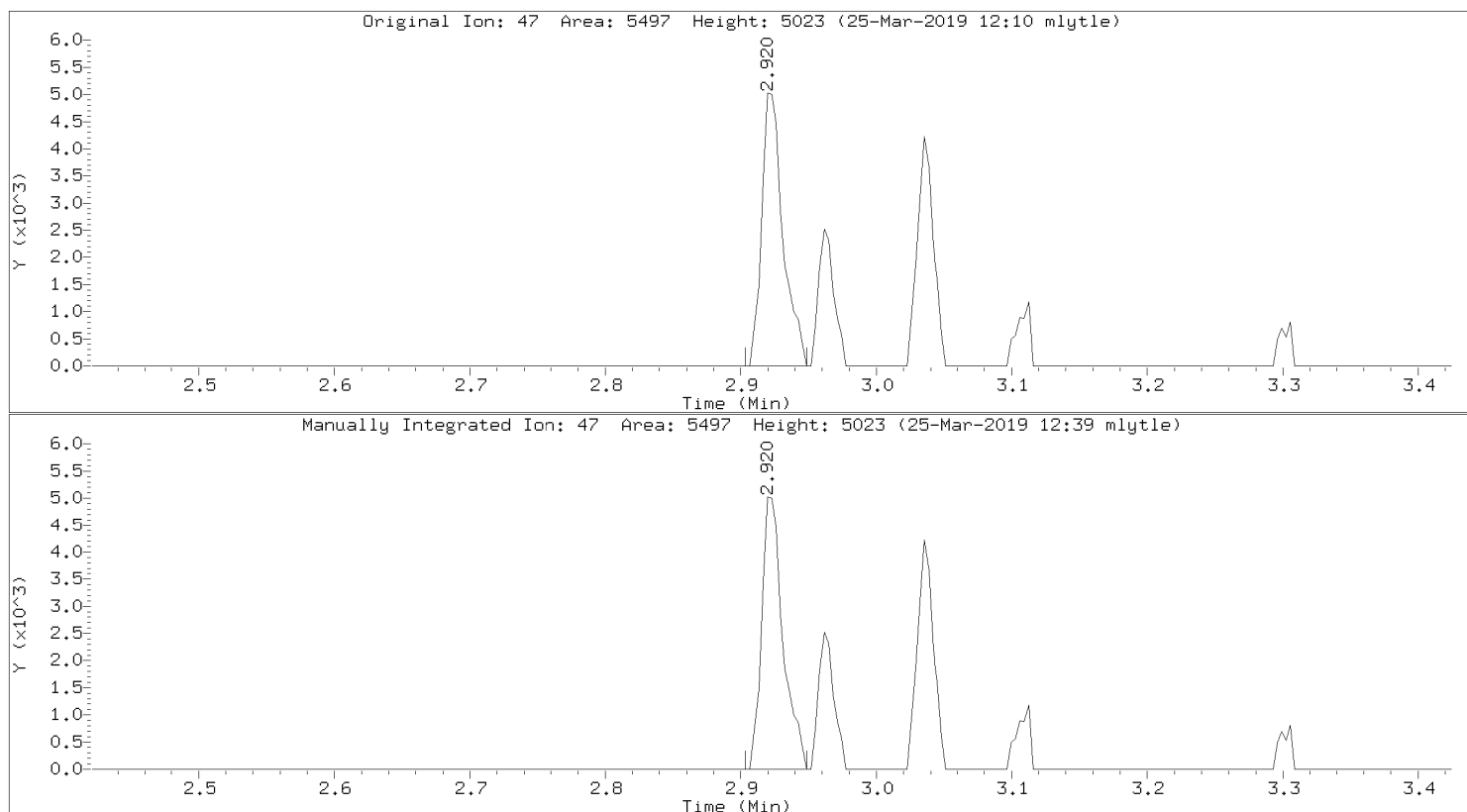


Data File: \\192.168.10.12\chem\10airH.i\032519.b\08409.D
Injection Date: 25-MAR-2019 09:39
Instrument: 10airH.i
Lab Sample ID: CAL4

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6



Data File: \\192.168.10.12\chem\10airH.i\032519.b\08409.D
Injection Date: 25-MAR-2019 09:39
Instrument: 10airH.i
Lab Sample ID: CAL4



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airH.i\032519.b\08410.D
 Lab Smp Id: CAL3
 Inj Date : 25-MAR-2019 10:04
 Operator : MJL Inst ID: 10airH.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Meth Date : 25-Mar-2019 12:39 10airH.i Quant Type: ISTD
 Cal Date : 25-MAR-2019 09:39 Cal File: 08409.D
 Als bottle: 10 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 1,1-Difluoroethane	65		2.919	2.919	(0.537)	4719	0.50000	0.495 (M)
2 Chlorodifluoromethane	67		2.938	2.938	(0.541)	2636	0.50000	0.495 (QM)
3 Propylene	41		2.942	2.942	(0.541)	7199	0.50000	0.506
4 Dichlorodifluoromethane	85		2.964	2.964	(0.546)	24386	0.50000	0.483
5 Dichlorotetrafluoroethane	85		3.035	3.035	(0.559)	22742	0.50000	0.486
6 Chloromethane	50		3.038	3.038	(0.559)	10530	0.50000	0.475
7 Vinyl chloride	62		3.106	3.106	(0.572)	8115	0.50000	0.473
8 1,3-Butadiene	54		3.138	3.138	(0.578)	6408	0.50000	0.502
9 Bromomethane	94		3.257	3.257	(0.599)	8009	0.50000	0.503
10 Chloroethane	64		3.299	3.299	(0.607)	4028	0.50000	0.499
11 Ethanol	45		3.308	3.308	(0.609)	20210	2.50000	2.44
12 Vinyl Bromide	106		3.408	3.408	(0.627)	6865	0.50000	0.471
13 Isopentane	43		3.421	3.421	(0.630)	10655	0.50000	0.478
14 Freon 123	83		3.456	3.456	(0.636)	19411	0.50000	0.504
15 Trichlorofluoromethane	101		3.482	3.482	(0.641)	25100	0.50000	0.513
16 Acrolein	56		3.482	3.482	(0.641)	8589	1.25000	1.22
17 Acetone	43		3.504	3.504	(0.645)	95545	2.50000	2.58 (M)
18 Isopropyl Alcohol	45		3.524	3.524	(0.649)	92880	2.50000	2.54 (M)
19 1,1-Dichloroethene	61		3.694	3.694	(0.680)	15661	0.50000	0.488
20 Acrylonitrile	53		3.701	3.701	(0.681)	17210	1.25000	1.25
21 Tert Butyl Alcohol (TBA)	59		3.723	3.723	(0.685)	21967	0.50000	0.501
22 Methyl Acetate	43		3.726	3.726	(0.686)	22665	0.50000	0.496
23 Freon 113	101		3.729	3.729	(0.686)	17446	0.50000	0.498

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Allyl Chloride	76		3.803	3.803	(0.700)	3575	0.50000	0.482
25 Methylene chloride	49		3.803	3.803	(0.700)	61956	2.50000	2.45
26 Carbon Disulfide	76		3.913	3.913	(0.720)	24168	0.50000	0.491
27 Methyl Tert Butyl Ether	73		4.064	4.064	(0.748)	25253	0.50000	0.510
28 trans-1,2-dichloroethene	96		4.070	4.070	(0.749)	8054	0.50000	0.491
29 Vinyl Acetate	43		4.147	4.147	(0.763)	27983	0.50000	0.474
30 1,1-Dichloroethane	63		4.196	4.196	(0.772)	16264	0.50000	0.472
31 Methyl Ethyl Ketone	72		4.311	4.311	(0.793)	5564	0.50000	0.542 (Q)
32 Di-isopropyl Ether	45		4.337	4.337	(0.798)	35232	0.50000	0.496
33 n-Hexane	57		4.347	4.347	(0.800)	13984	0.50000	0.507
34 Ethyl Acetate	43		4.472	4.472	(0.823)	24870	0.50000	0.500
35 cis-1,2-Dichloroethene	96		4.488	4.488	(0.826)	8790	0.50000	0.505
36 Ethyl Tert-Butyl Ether	59		4.562	4.562	(0.840)	30606	0.50000	0.486
37 Chloroform	83		4.668	4.668	(0.859)	20881	0.50000	0.489
38 Tetrahydrofuran	42		4.739	4.739	(0.872)	10701	0.50000	0.485
39 1,1,1-Trichloroethane	97		4.983	4.983	(0.917)	20846	0.50000	0.491
40 1,2-Dichloroethane	62		5.061	5.061	(0.931)	15205	0.50000	0.488
41 Benzene	78		5.221	5.221	(0.961)	25821	0.50000	0.484
42 Carbon tetrachloride	117		5.237	5.237	(0.964)	19720	0.50000	0.476
43 Cyclohexane	56		5.263	5.263	(0.969)	14082	0.50000	0.497 (M)
44 Tert Amyl Methyl Ether	73		5.363	5.363	(0.987)	25894	0.50000	0.492
* 45 1,4-Difluorobenzene	114		5.434	5.434	(1.000)	452151	10.0000	
46 2,2,4-Trimethylpentane	57		5.527	5.527	(1.017)	44946	0.50000	0.491
47 Heptane	43		5.655	5.655	(1.041)	19084	0.50000	0.498
48 Trichloroethene	130		5.762	5.762	(1.060)	10622	0.50000	0.499
49 1,2-Dichloropropane	63		5.807	5.807	(1.069)	10812	0.50000	0.500
50 Methyl methacrylate	69		5.803	5.803	(1.068)	10367	0.50000	0.515
51 1,4-Dioxane	88		5.858	5.858	(1.078)	13385	1.25000	1.19
52 Bromodichloromethane	83		5.971	5.971	(1.099)	22337	0.50000	0.480
53 Methylcyclohexane	98		6.234	6.234	(1.147)	5660	0.50000	0.487
54 Methyl Isobutyl Ketone	43		6.315	6.315	(1.162)	26565	0.50000	0.491
55 cis-1,3-Dichloropropene	75		6.395	6.395	(1.177)	17086	0.50000	0.478
56 trans-1,3-Dichloropropene	75		6.839	6.839	(1.259)	14991	0.50000	0.479
57 Toluene	91		6.938	6.938	(1.277)	30154	0.50000	0.481
58 1,1,2-Trichloroethane	97		7.061	7.061	(1.299)	10187	0.50000	0.467
59 Methyl Butyl Ketone	43		7.160	7.160	(0.850)	24586	0.50000	0.495
60 n-Octane	43		7.363	7.363	(0.874)	25321	0.50000	0.487
61 Dibromochloromethane	129		7.597	7.597	(0.902)	18677	0.50000	0.477
62 Tetrachloroethene	166		7.681	7.681	(0.912)	11684	0.50000	0.495
63 1,2-Dibromoethane	107		7.797	7.797	(0.926)	17130	0.50000	0.491
* 64 Chlorobenzene - d5	117		8.424	8.424	(1.000)	385384	10.0000	
65 Chlorobenzene	112		8.466	8.466	(1.005)	21892	0.50000	0.489
66 Ethyl Benzene	91		8.687	8.687	(1.031)	39789	0.50000	0.478
67 m&p-Xylene	91		8.871	8.871	(1.053)	63036	1.00000	0.957 (M)
68 n-Nonane	43		9.208	9.208	(1.093)	26454	0.50000	0.482
69 Styrene	104		9.276	9.276	(1.101)	20207	0.50000	0.486
70 o-Xylene	91		9.308	9.308	(1.105)	31811	0.50000	0.472
71 Bromoform	173		9.382	9.382	(1.114)	12994	0.50000	0.460
72 1,1,2,2-Tetrachloroethane	83		9.720	9.720	(1.154)	23091	0.50000	0.486
73 Isopropylbenzene	105		9.861	9.861	(1.171)	38832	0.50000	0.492
74 N-Propylbenzene	91		10.427	10.427	(1.238)	49541	0.50000	0.472
75 4-Ethyltoluene	105		10.610	10.610	(1.260)	36524	0.50000	0.480
76 1,3,5-Trimethylbenzene	105		10.687	10.687	(1.269)	33992	0.50000	0.475
77 n-Decane	57		11.038	11.038	(2.031)	24681	0.50000	0.462

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
78 Tert-Butyl Benzene	119		11.131	11.131	(1.321)	28051	0.50000	0.474
79 1,2,4-Trimethylbenzene	105		11.183	11.183	(1.327)	34305	0.50000	0.470
80 Sec- Butylbenzene	105		11.440	11.440	(1.358)	45260	0.50000	0.479
81 1,3-Dichlorobenzene	146		11.469	11.469	(1.361)	16897	0.50000	0.481
82 Benzyl Chloride	91		11.543	11.543	(1.370)	18972	0.50000	0.432
83 1,4-Dichlorobenzene	146		11.604	11.604	(1.377)	15963	0.50000	0.468
84 p-Isopropyltoluene	119		11.646	11.646	(1.382)	36865	0.50000	0.477
85 1,2,3-Trimethylbenzene	105		11.658	11.658	(1.384)	32224	0.50000	0.484
86 1,2-Dichlorobenzene	146		11.912	11.912	(1.414)	15792	0.50000	0.467
87 N-Butylbenzene	91		12.092	12.092	(1.435)	35365	0.50000	0.457
88 1,2-Dibromo-3-Chloropropane	157		12.607	12.607	(1.497)	6069	0.50000	0.473
89 1,2,4-Trichlorobenzene	180		13.555	13.555	(1.609)	7286	0.50000	0.453
90 Naphthalene	128		13.694	13.694	(1.626)	22418	0.50000	0.454
91 Hexachlorobutadiene	225		13.806	13.806	(1.639)	8499	0.50000	0.447

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airH.i\032519.b\08410.D
Report Date: 25-Mar-2019 12:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airH.i
Lab File ID: 08410.D
Lab Smp Id: CAL3
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
Misc Info:

Calibration Date: 25-MAR-2019
Calibration Time: 09:13

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	451734	271040	632428	452151	0.09
64 Chlorobenzene - d	397119	238271	555967	385384	-2.96

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.43	5.10	5.76	5.43	0.00
64 Chlorobenzene - d	8.43	8.10	8.76	8.42	-0.04

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

Data File: \\192.168.10.12\chem\10airH.i\032519.b\08410.D

Date : 25-MAR-2019 10:04

Client ID:

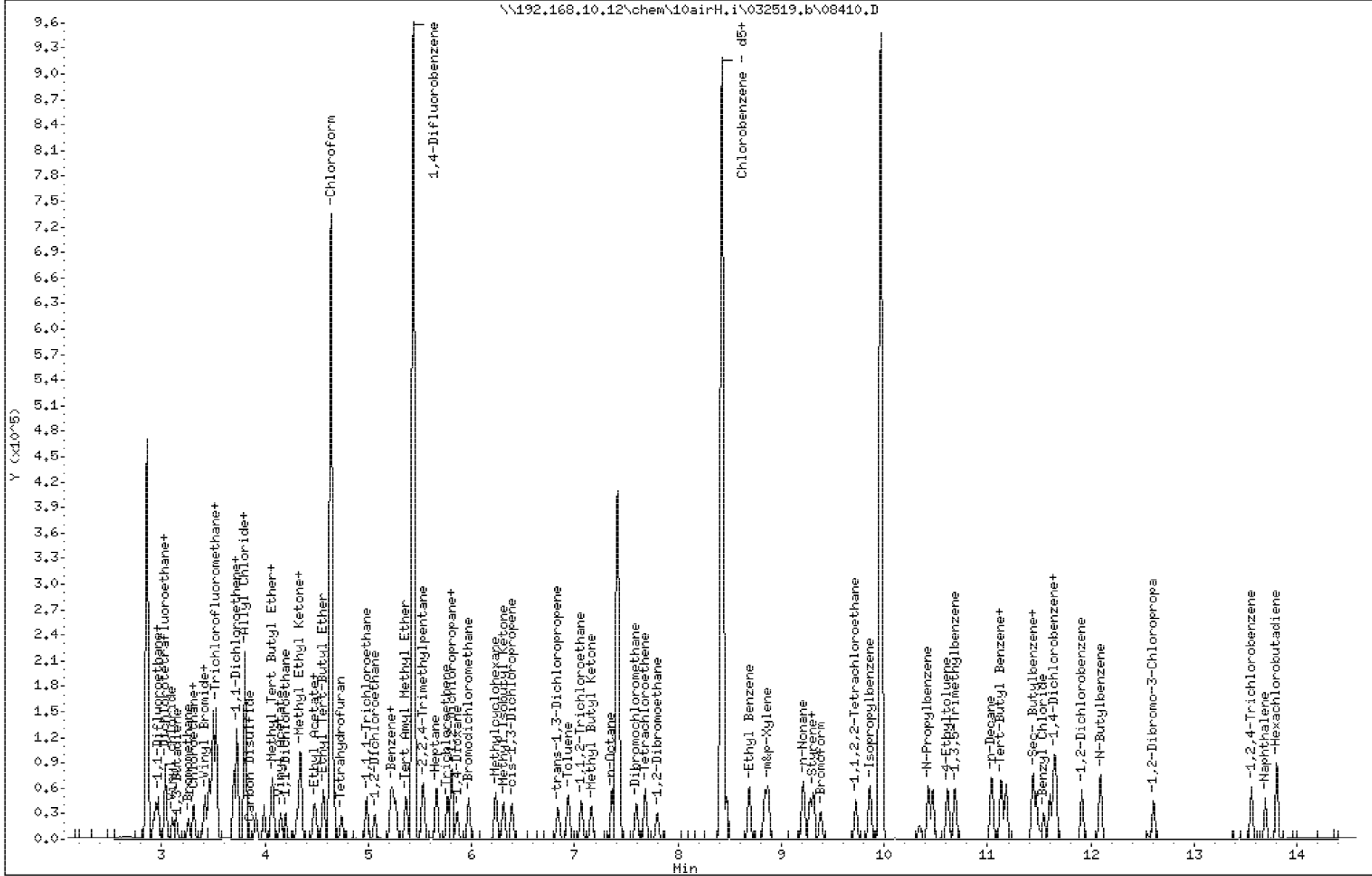
Sample Info:

Column phase: ZB-5MSplus SN338857

Instrument: 10airH.i

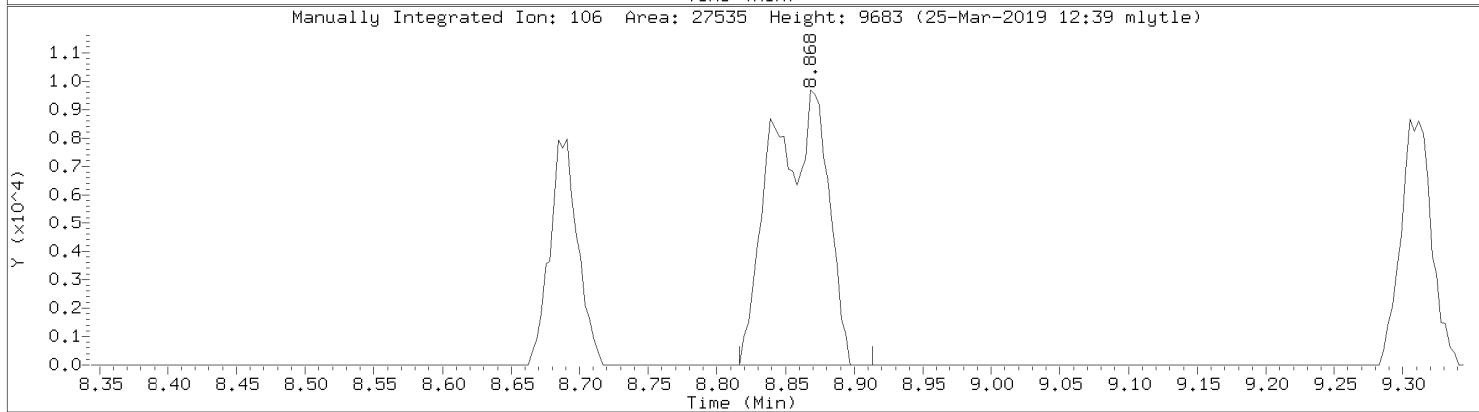
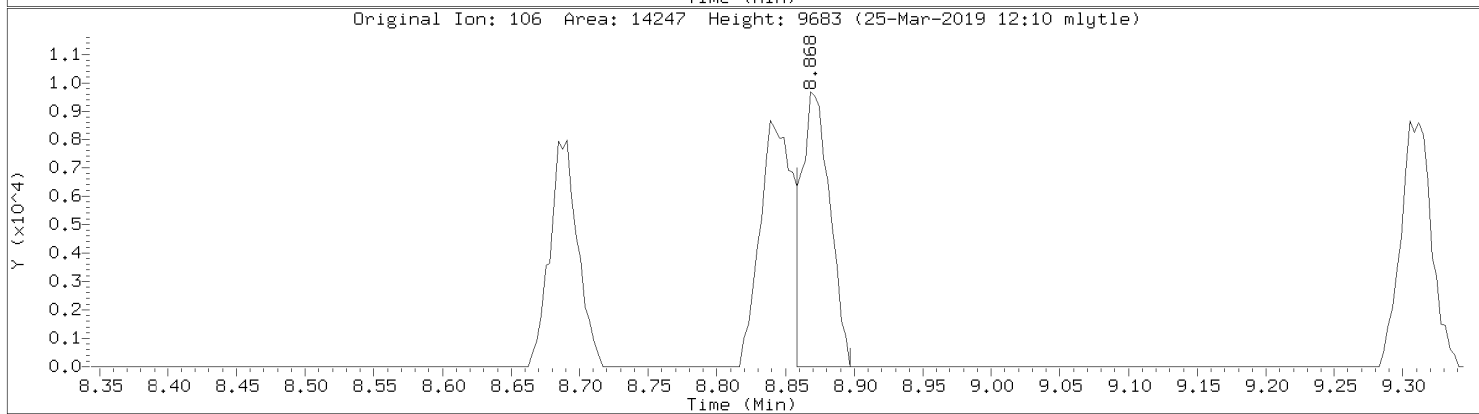
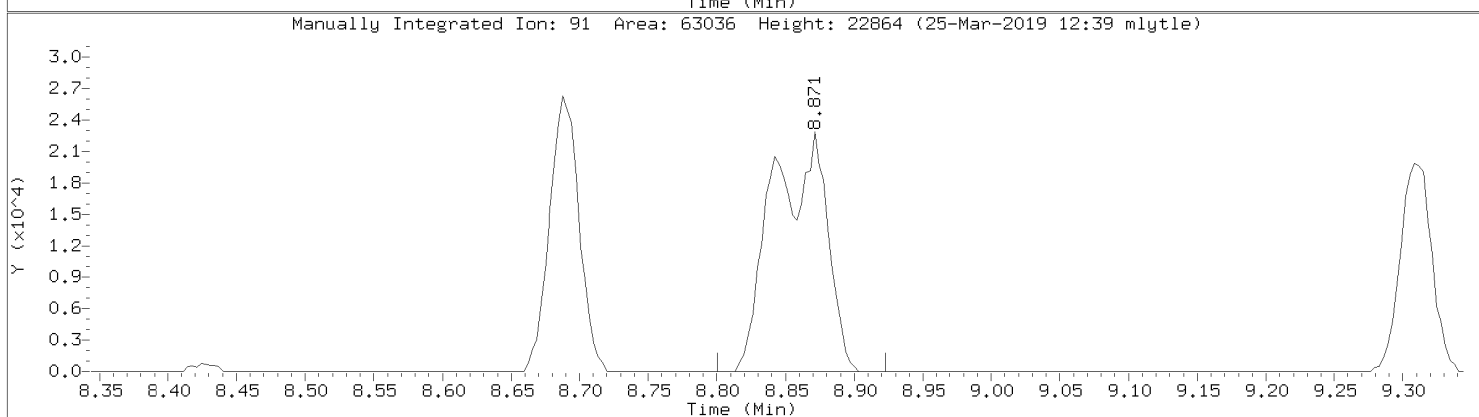
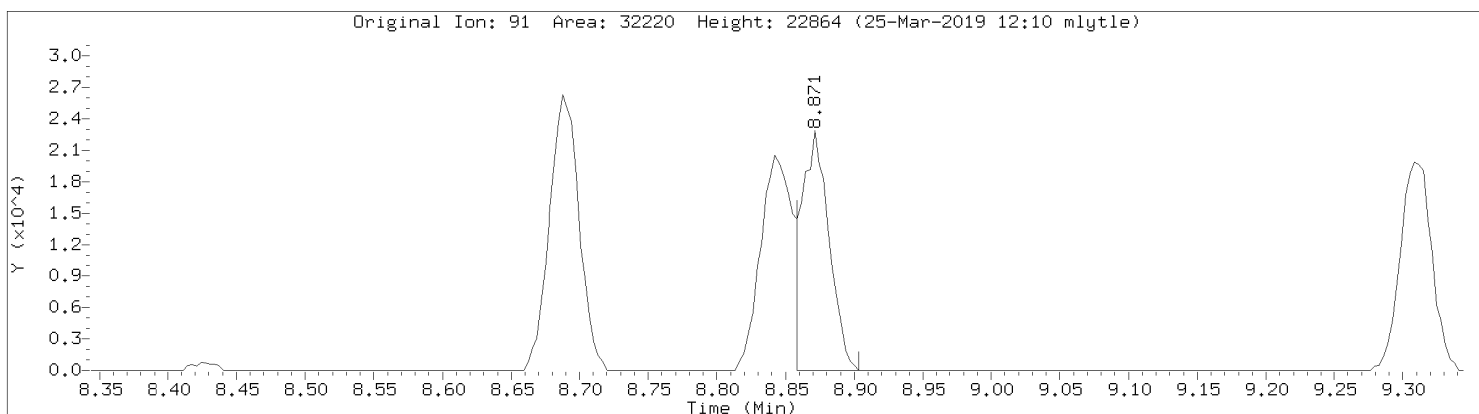
Operator: MJL

Column diameter: 0.32



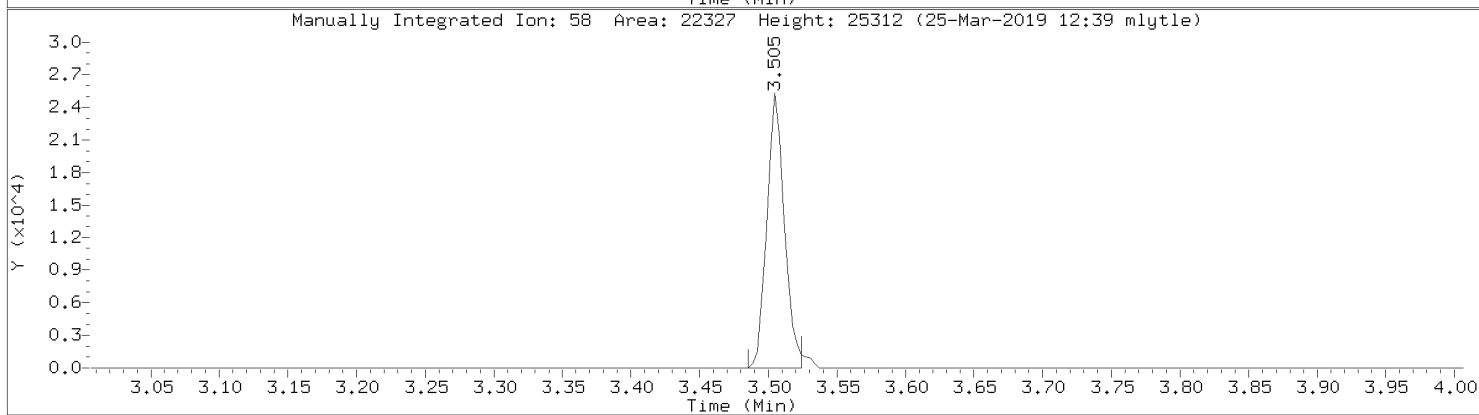
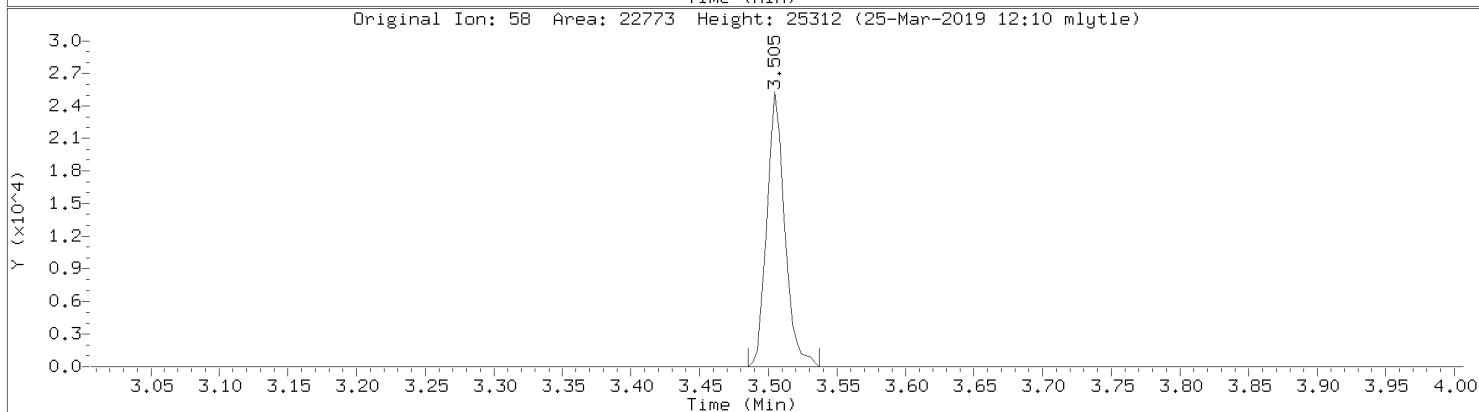
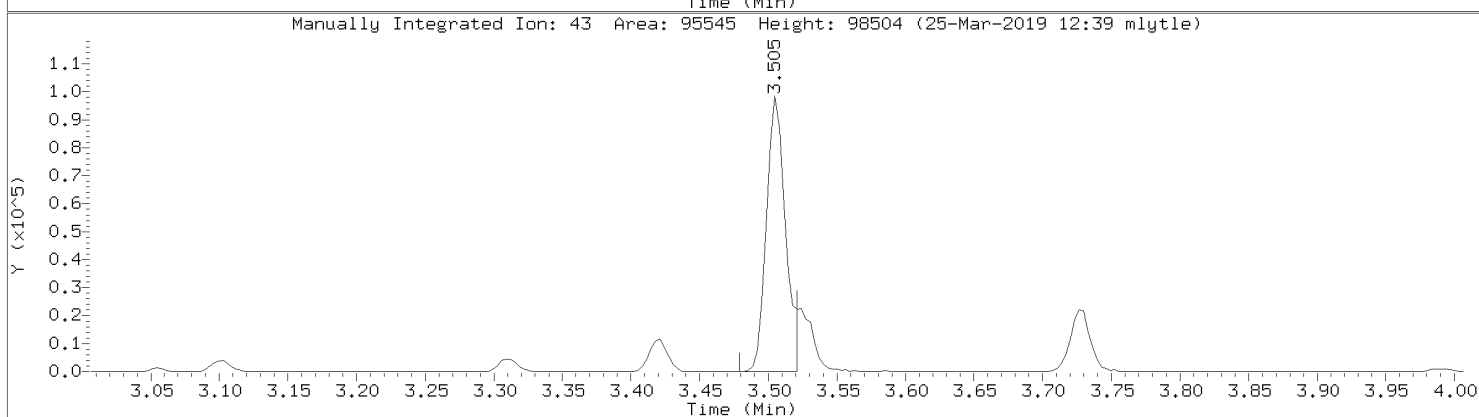
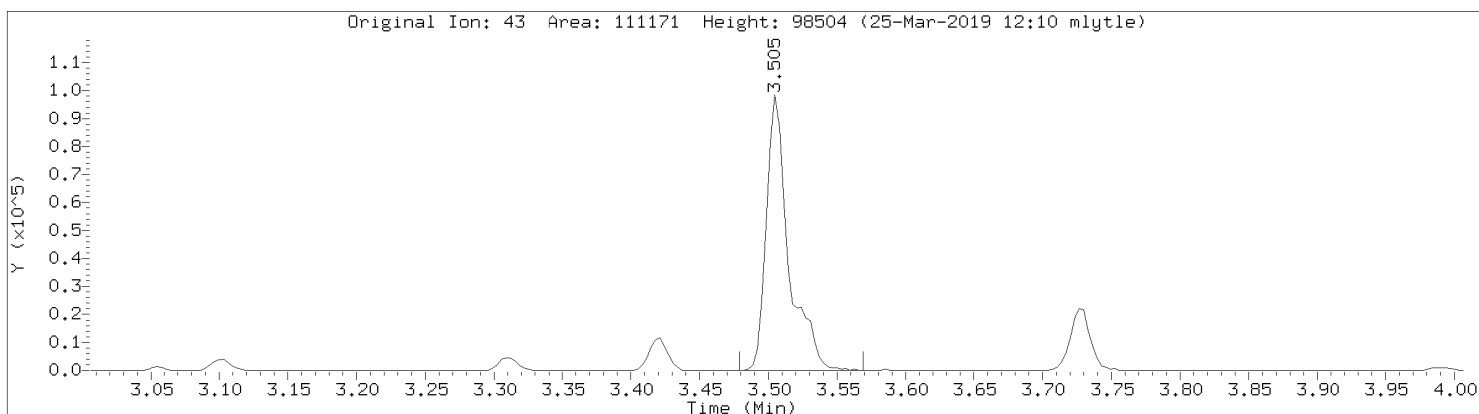
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Injection Date: 25-MAR-2019 10:04
Instrument: 10airH.i
Lab Sample ID: CAL3

Compound: m&p-Xylene
CAS Number: 7816-60-0



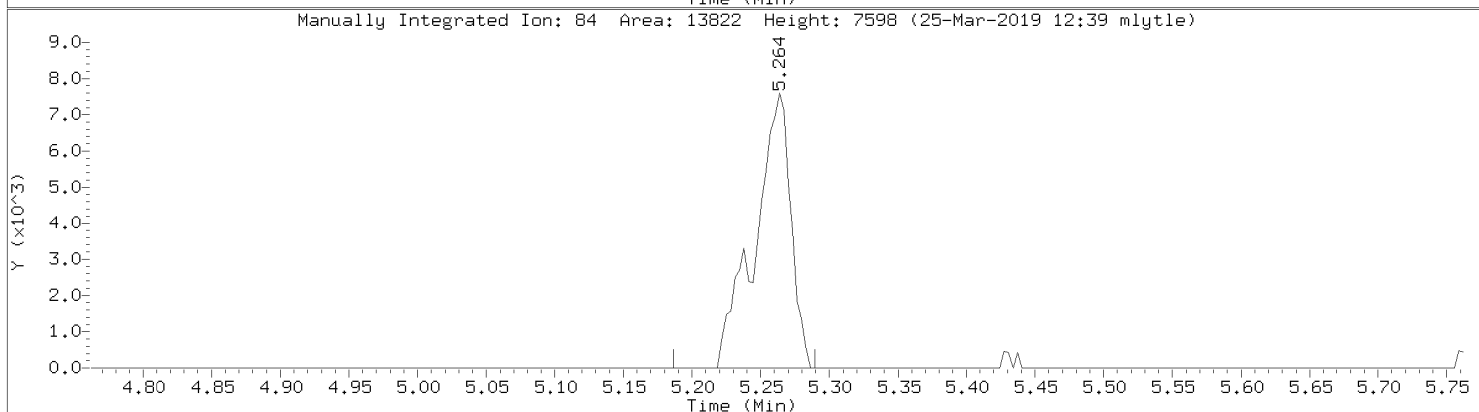
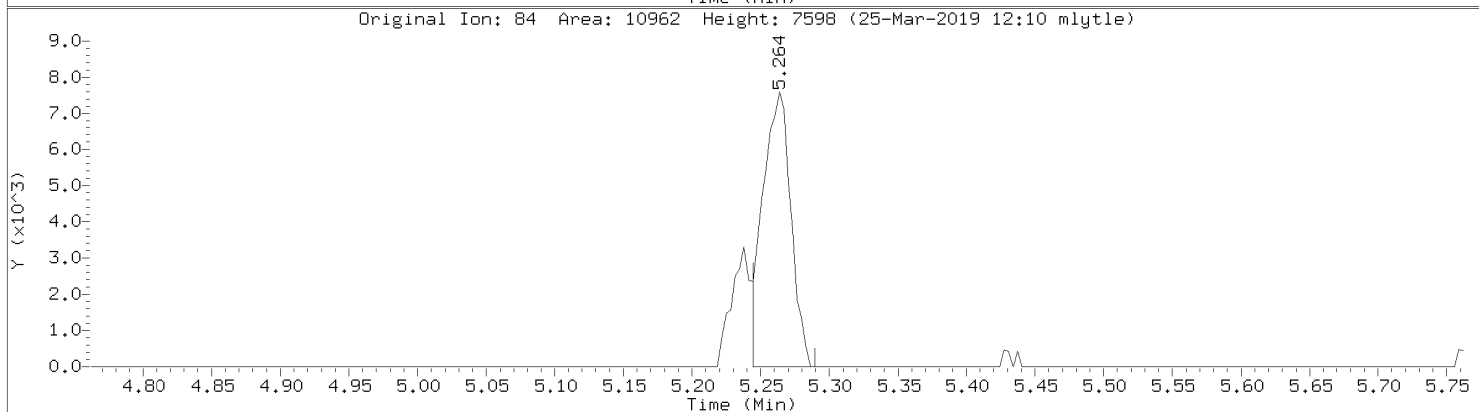
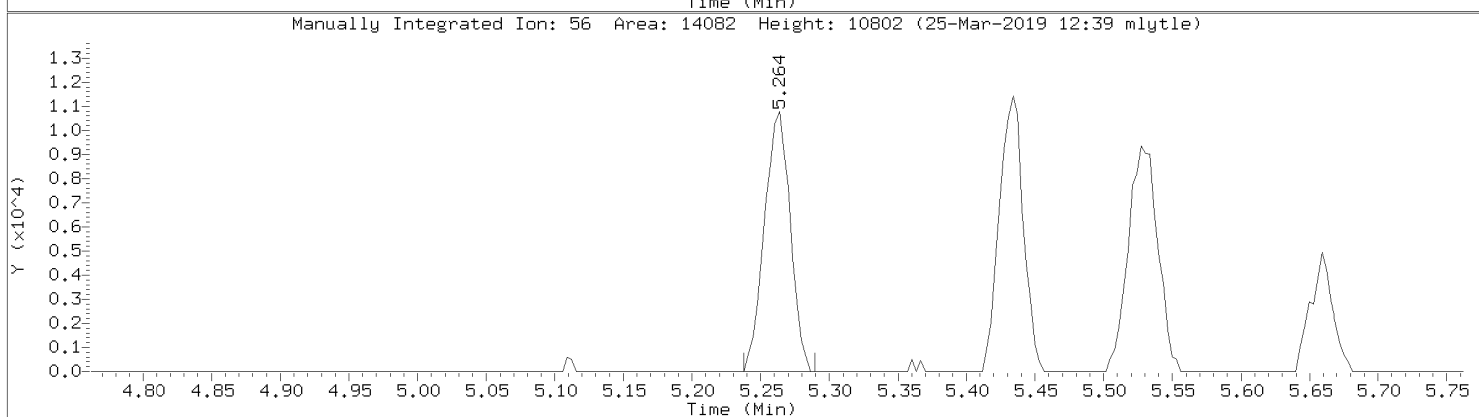
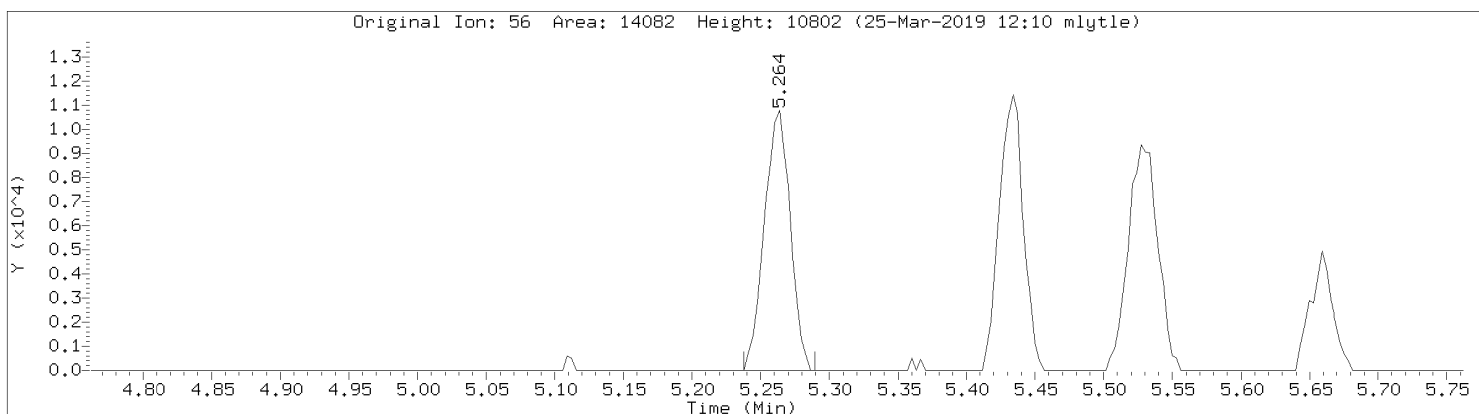
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Injection Date: 25-MAR-2019 10:04
Instrument: 10airH.i
Lab Sample ID: CAL3

Compound: Acetone
CAS Number: 67-64-1

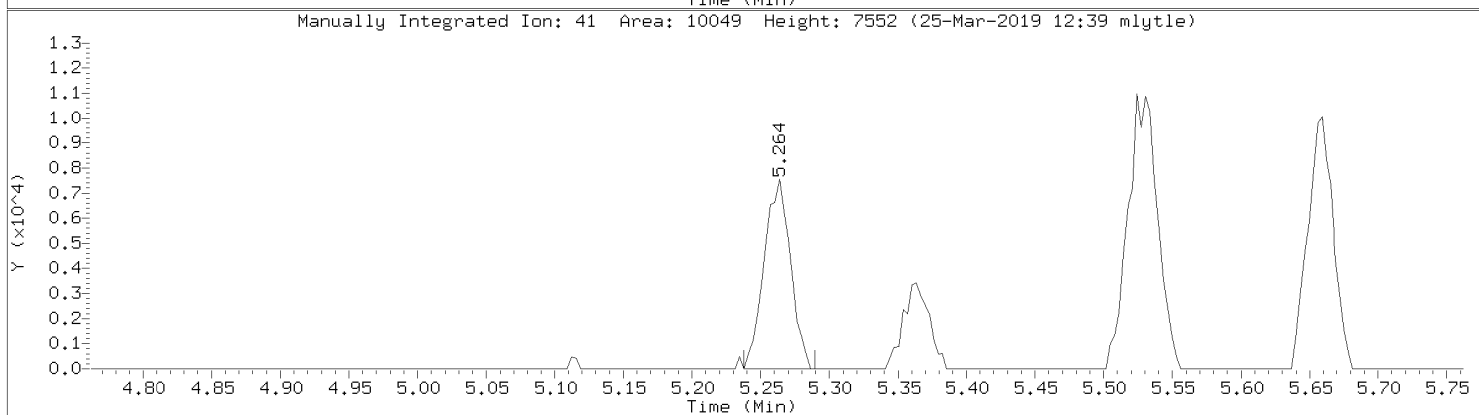
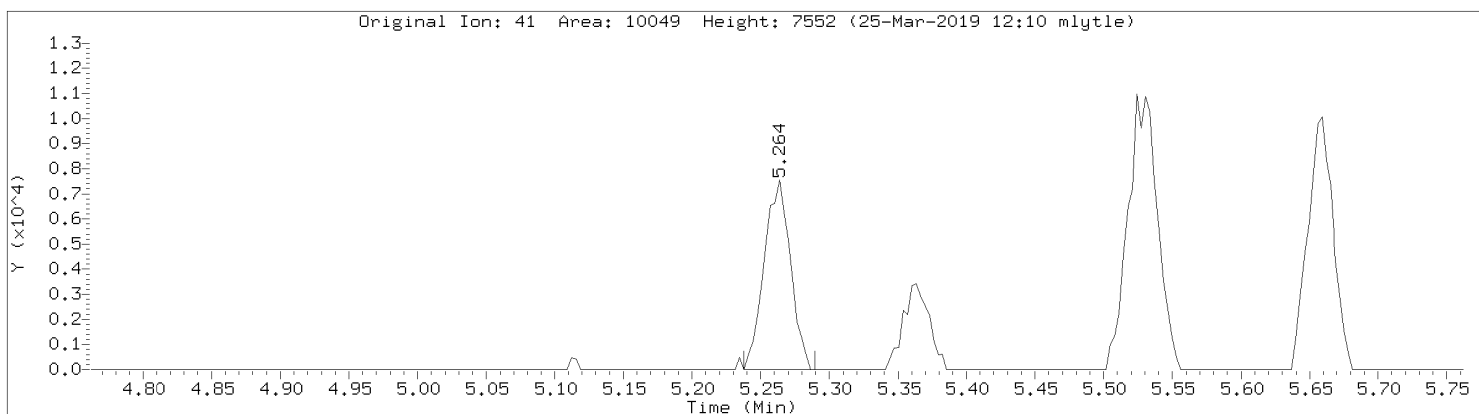


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Injection Date: 25-MAR-2019 10:04
Instrument: 10airH.i
Lab Sample ID: CAL3

Compound: Cyclohexane
CAS Number: 110-82-7

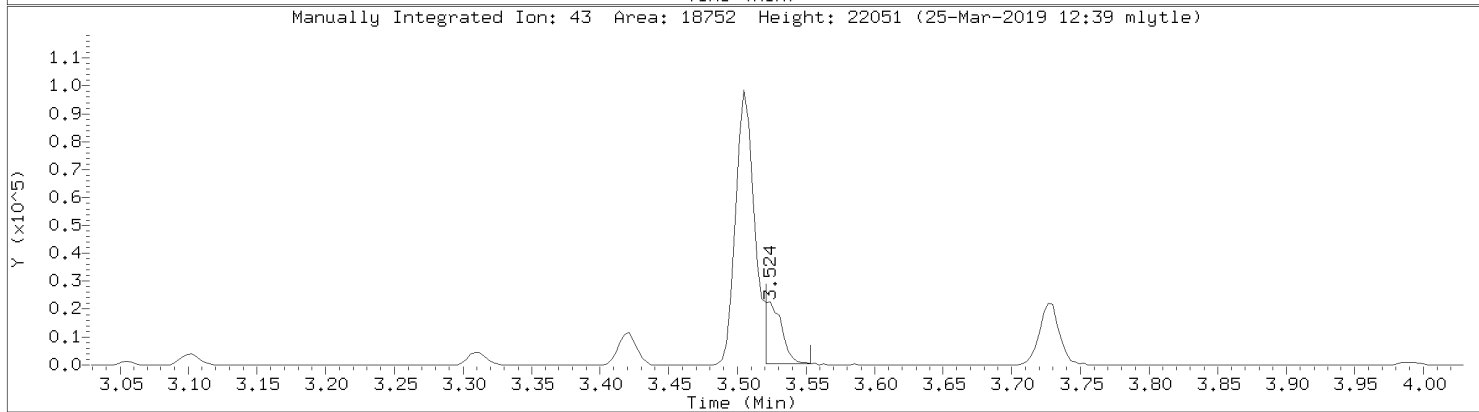
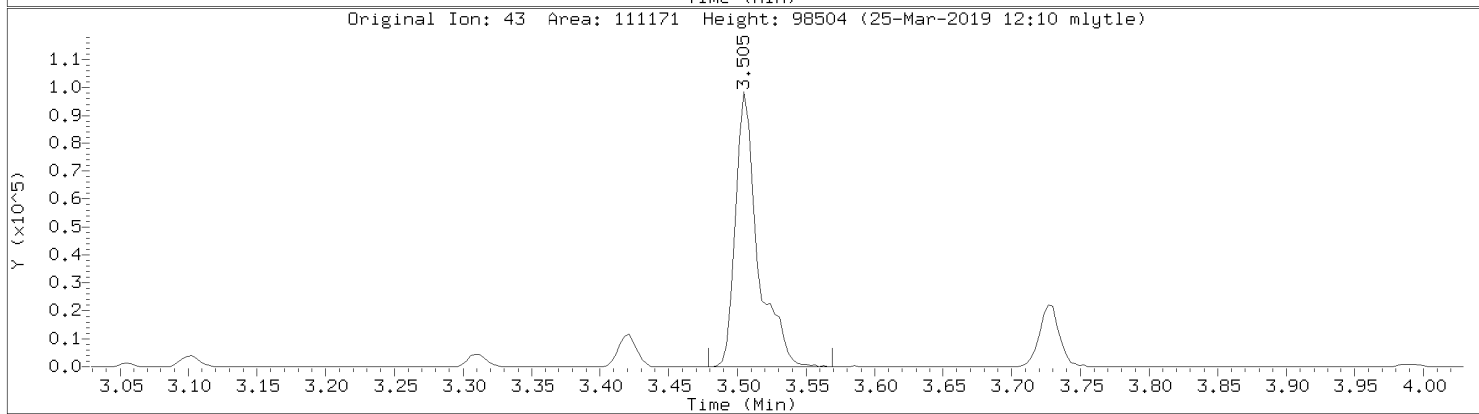
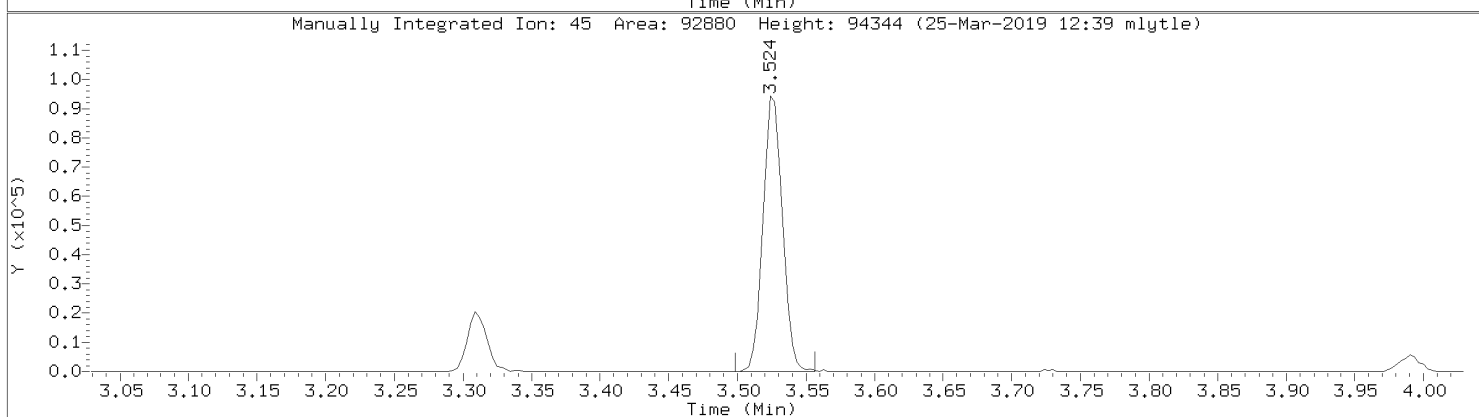
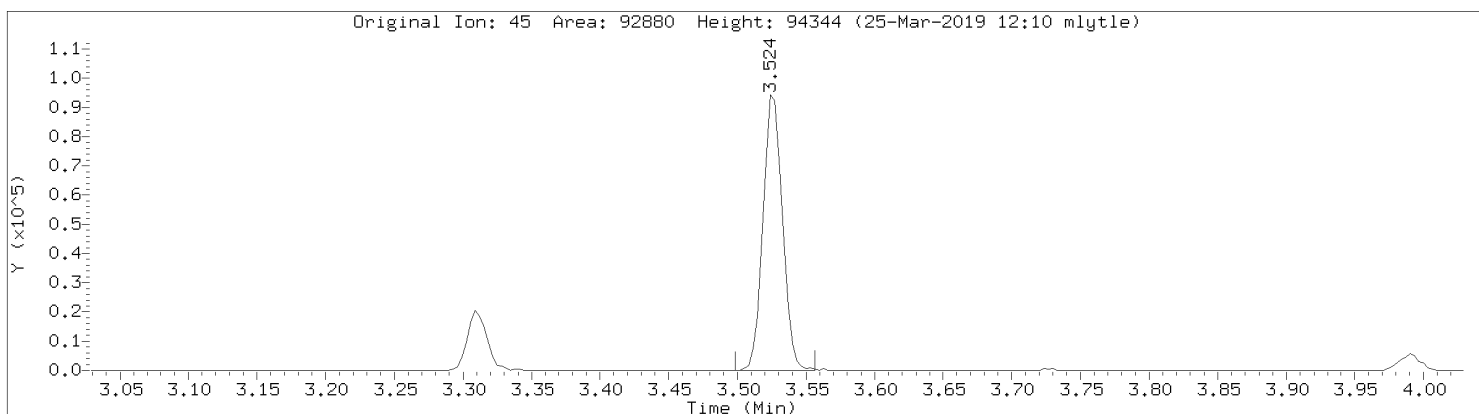


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Injection Date: 25-MAR-2019 10:04
Instrument: 10airH.i
Lab Sample ID: CAL3



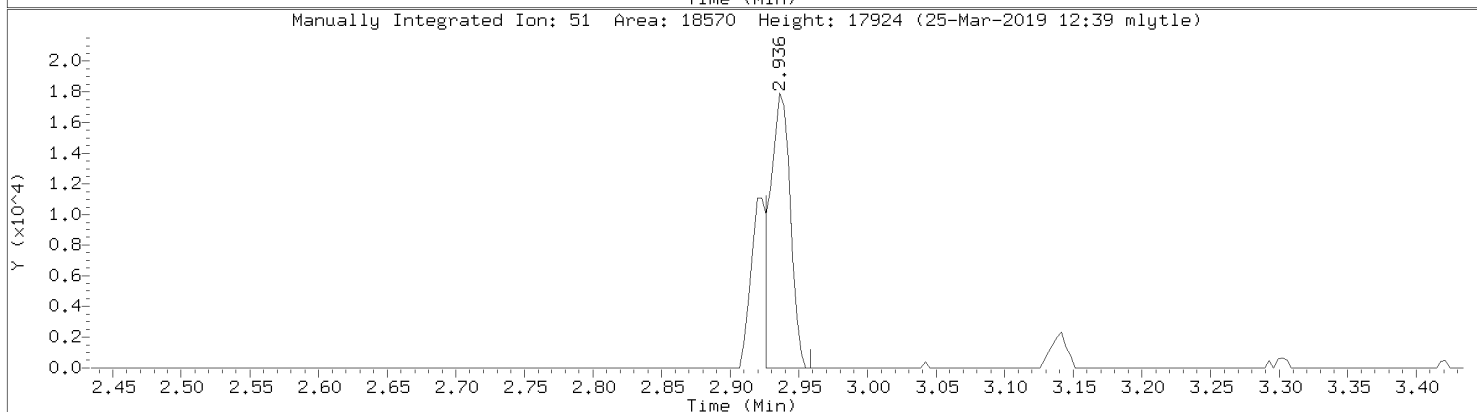
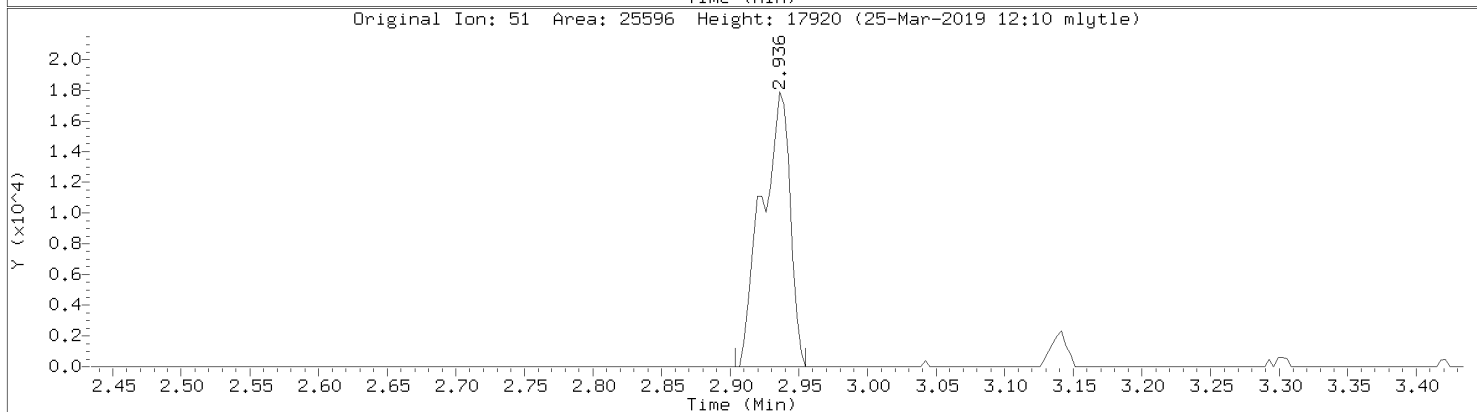
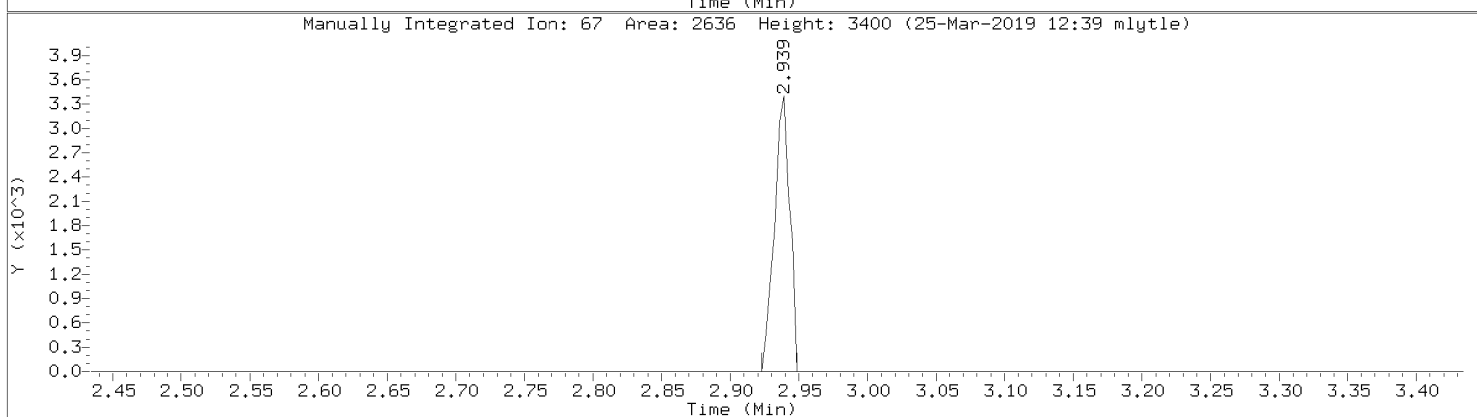
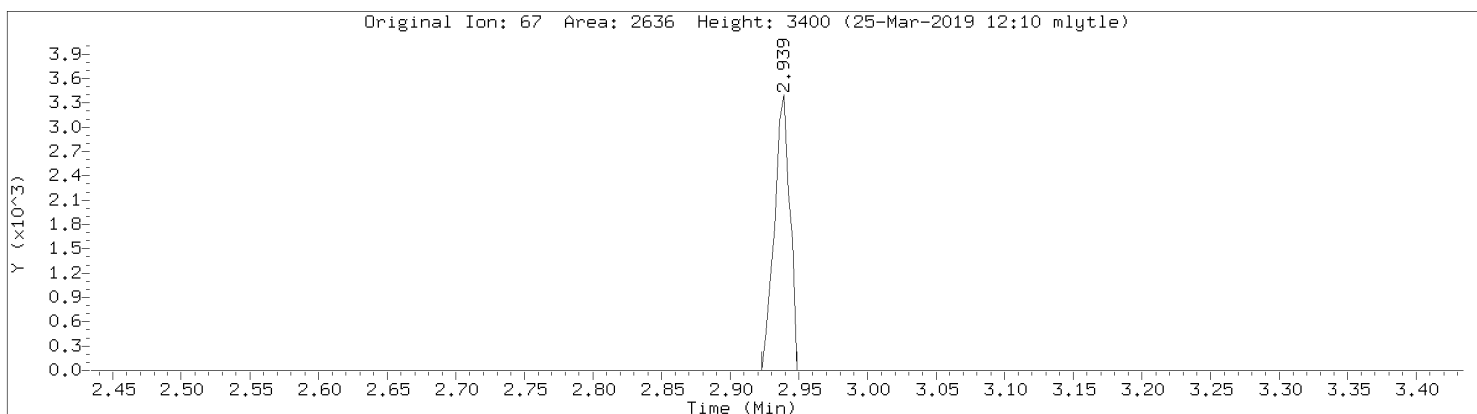
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Injection Date: 25-MAR-2019 10:04
Instrument: 10airH.i
Lab Sample ID: CAL3

Compound: Isopropyl Alcohol
CAS Number: 67-63-0

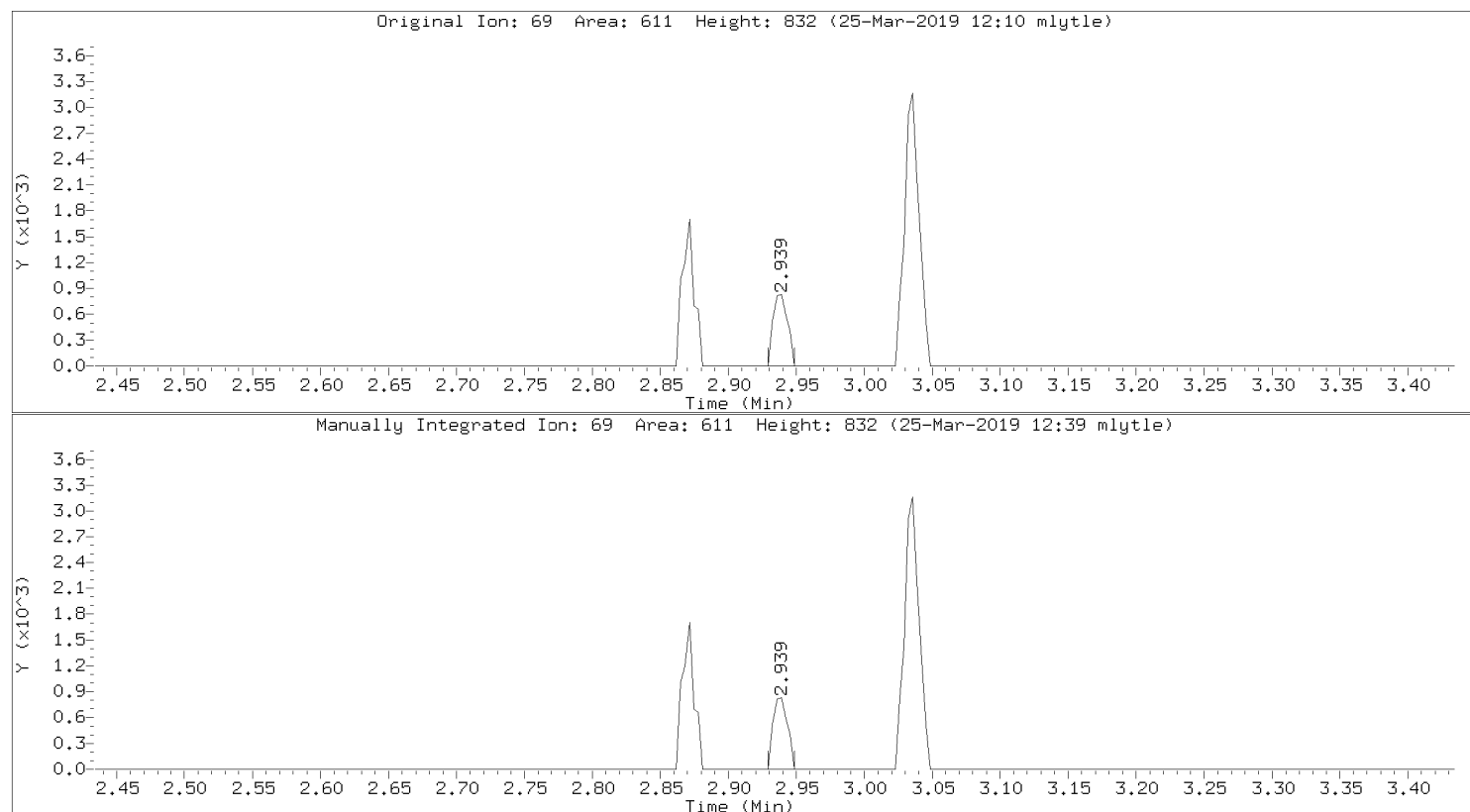


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Injection Date: 25-MAR-2019 10:04
Instrument: 10airH.i
Lab Sample ID: CAL3

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

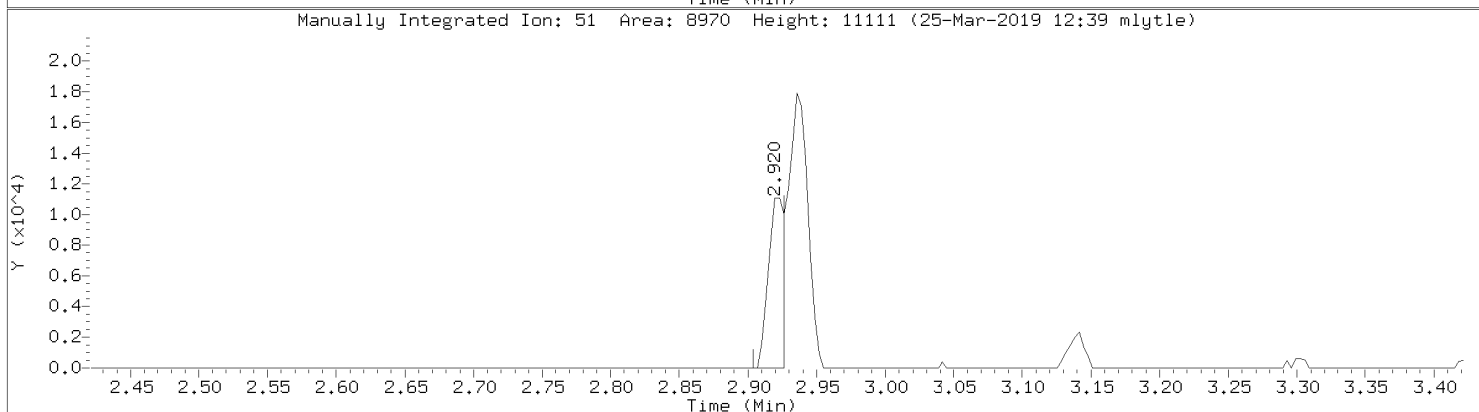
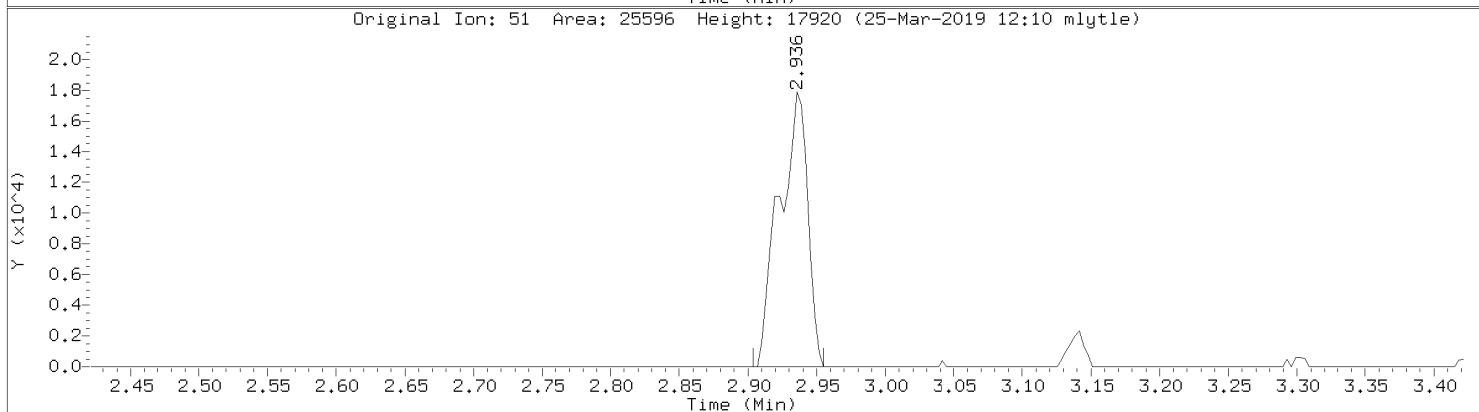
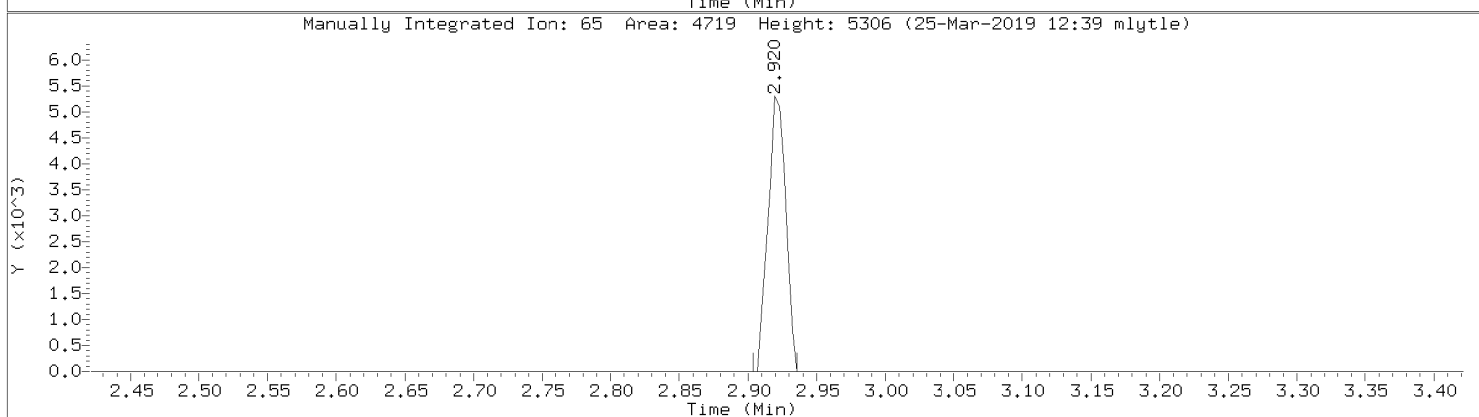
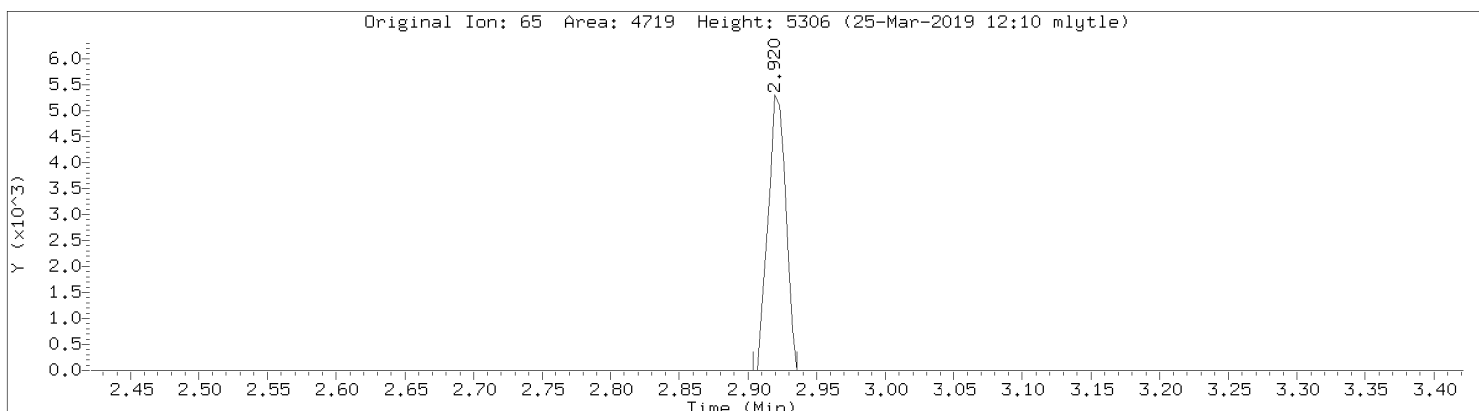


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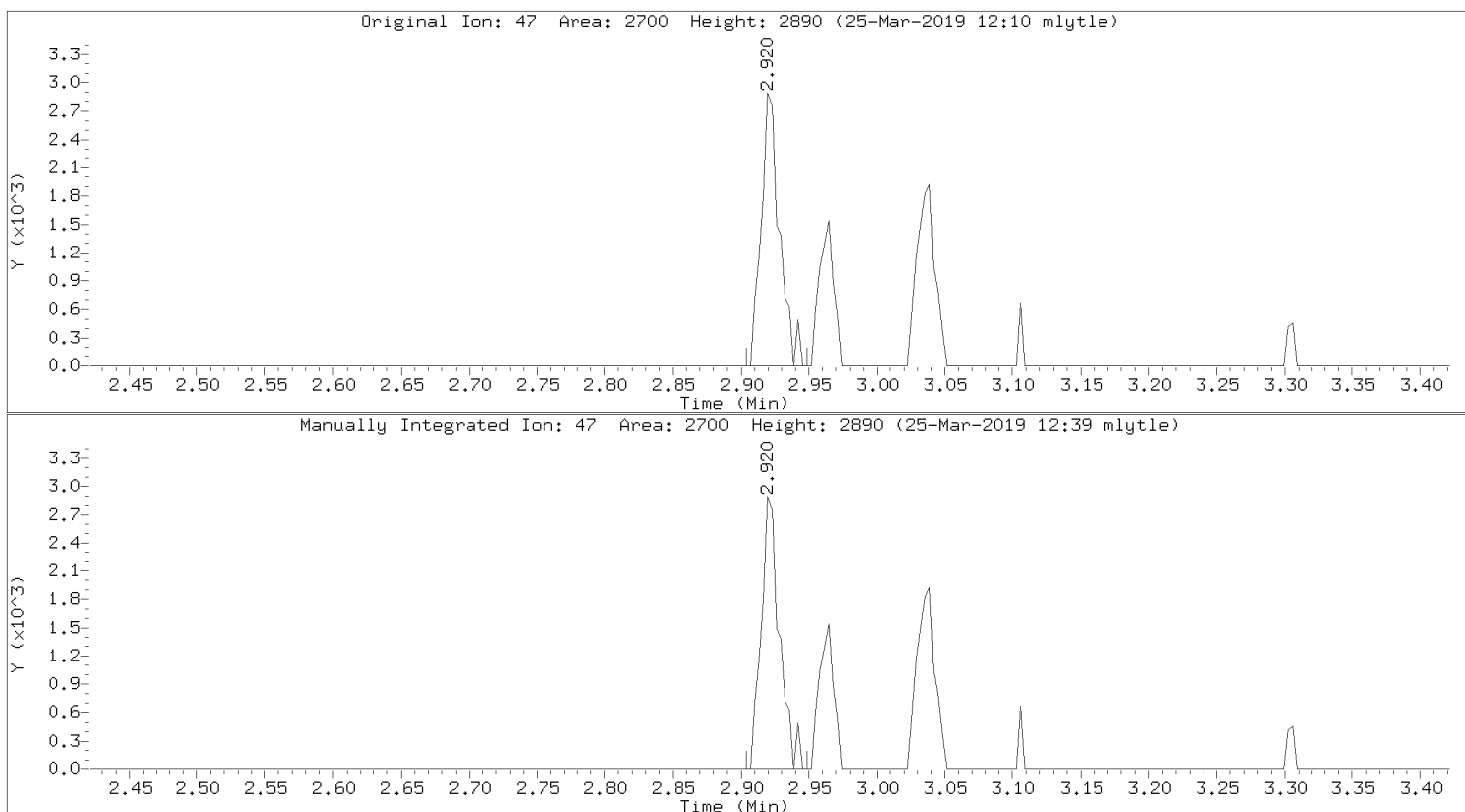


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Injection Date: 25-MAR-2019 10:04
Instrument: 10airH.i
Lab Sample ID: CAL3

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6



Data File: \\192.168.10.12\chem\10airH.i\032519.b\08410.D
Injection Date: 25-MAR-2019 10:04
Instrument: 10airH.i
Lab Sample ID: CAL3



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airH.i\032519.b\08411.D
 Lab Smp Id: CAL2
 Inj Date : 25-MAR-2019 10:29
 Operator : MJL
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Meth Date : 25-Mar-2019 12:39 10airH.i Quant Type: ISTD
 Cal Date : 25-MAR-2019 10:04 Cal File: 08410.D
 Als bottle: 11 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 1,1-Difluoroethane	65		2.922	2.922	(0.538)	2037	0.20000	0.218 (QM)
2 Chlorodifluoromethane	67		2.938	2.938	(0.541)	1112	0.20000	0.213 (QM)
3 Propylene	41		2.945	2.945	(0.542)	3109	0.20000	0.223
4 Dichlorodifluoromethane	85		2.964	2.964	(0.546)	11764	0.20000	0.238
5 Dichlorotetrafluoroethane	85		3.035	3.035	(0.559)	10625	0.20000	0.232
6 Chloromethane	50		3.038	3.038	(0.559)	5068	0.20000	0.233
7 Vinyl chloride	62		3.106	3.106	(0.572)	3917	0.20000	0.233
8 1,3-Butadiene	54		3.138	3.138	(0.578)	3019	0.20000	0.241
9 Bromomethane	94		3.257	3.257	(0.599)	3737	0.20000	0.240
10 Chloroethane	64		3.299	3.299	(0.607)	1874	0.20000	0.237
11 Ethanol	45		3.311	3.311	(0.609)	8880	1.00000	1.10
12 Vinyl Bromide	106		3.405	3.405	(0.627)	3267	0.20000	0.229
13 Isopentane	43		3.421	3.421	(0.630)	5186	0.20000	0.238
14 Freon 123	83		3.456	3.456	(0.636)	8872	0.20000	0.235
15 Trichlorofluoromethane	101		3.482	3.482	(0.641)	11536	0.20000	0.241
16 Acrolein	56		3.482	3.482	(0.641)	3966	0.50000	0.577
17 Acetone	43		3.504	3.504	(0.645)	45723	1.00000	1.26 (M)
18 Isopropyl Alcohol	45		3.524	3.524	(0.649)	42404	1.00000	1.19 (M)
19 1,1-Dichloroethene	61		3.697	3.697	(0.680)	7388	0.20000	0.235
20 Acrylonitrile	53		3.700	3.700	(0.681)	7394	0.50000	0.550
21 Tert Butyl Alcohol (TBA)	59		3.723	3.723	(0.685)	9698	0.20000	0.226
22 Methyl Acetate	43		3.726	3.726	(0.686)	10130	0.20000	0.227
23 Freon 113	101		3.726	3.726	(0.686)	7933	0.20000	0.232

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Allyl Chloride	76		3.803	3.803	(0.700)	1669	0.20000	0.230
25 Methylene chloride	49		3.807	3.807	(0.701)	30058	1.00000	1.21
26 Carbon Disulfide	76		3.909	3.909	(0.720)	10888	0.20000	0.226
27 Methyl Tert Butyl Ether	73		4.064	4.064	(0.748)	11121	0.20000	0.229
28 trans-1,2-dichloroethene	96		4.073	4.073	(0.750)	3673	0.20000	0.229
29 Vinyl Acetate	43		4.147	4.147	(0.763)	12954	0.20000	0.224 (M)
30 1,1-Dichloroethane	63		4.199	4.199	(0.773)	7624	0.20000	0.226
31 Methyl Ethyl Ketone	72		4.315	4.315	(0.794)	2562	0.20000	0.255 (Q)
32 Di-isopropyl Ether	45		4.337	4.337	(0.798)	15973	0.20000	0.230
33 n-Hexane	57		4.343	4.343	(0.799)	6138	0.20000	0.227 (QM)
34 Ethyl Acetate	43		4.472	4.472	(0.823)	10604	0.20000	0.218
35 cis-1,2-Dichloroethene	96		4.488	4.488	(0.826)	4058	0.20000	0.238
36 Ethyl Tert-Butyl Ether	59		4.562	4.562	(0.840)	14013	0.20000	0.227
37 Chloroform	83		4.668	4.668	(0.859)	9721	0.20000	0.233
38 Tetrahydrofuran	42		4.742	4.742	(0.873)	4680	0.20000	0.217
39 1,1,1-Trichloroethane	97		4.980	4.980	(0.917)	9314	0.20000	0.224
40 1,2-Dichloroethane	62		5.064	5.064	(0.932)	7050	0.20000	0.231
41 Benzene	78		5.221	5.221	(0.961)	12168	0.20000	0.233
42 Carbon tetrachloride	117		5.234	5.234	(0.963)	9037	0.20000	0.223
43 Cyclohexane	56		5.263	5.263	(0.969)	6666	0.20000	0.240 (Q)
44 Tert Amyl Methyl Ether	73		5.363	5.363	(0.987)	11609	0.20000	0.225
* 45 1,4-Difluorobenzene	114		5.433	5.433	(1.000)	442589	10.0000	
46 2,2,4-Trimethylpentane	57		5.527	5.527	(1.017)	19843	0.20000	0.221
47 Heptane	43		5.655	5.655	(1.041)	8372	0.20000	0.223
48 Trichloroethene	130		5.765	5.765	(1.061)	4836	0.20000	0.232
49 1,2-Dichloropropane	63		5.810	5.810	(1.069)	4693	0.20000	0.222
50 Methyl methacrylate	69		5.806	5.806	(1.069)	4273	0.20000	0.217 (Q)
51 1,4-Dioxane	88		5.858	5.858	(1.078)	6206	0.50000	0.564
52 Bromodichloromethane	83		5.967	5.967	(1.098)	10189	0.20000	0.224
53 Methylcyclohexane	98		6.241	6.241	(1.149)	2706	0.20000	0.238 (Q)
54 Methyl Isobutyl Ketone	43		6.308	6.308	(1.161)	11560	0.20000	0.218 (M)
55 cis-1,3-Dichloropropene	75		6.395	6.395	(1.177)	7551	0.20000	0.216
56 trans-1,3-Dichloropropene	75		6.842	6.842	(1.259)	6115	0.20000	0.199
57 Toluene	91		6.932	6.932	(1.276)	14514	0.20000	0.236
58 1,1,2-Trichloroethane	97		7.064	7.064	(1.300)	4976	0.20000	0.233
59 Methyl Butyl Ketone	43		7.160	7.160	(0.850)	10818	0.20000	0.225
60 n-Octane	43		7.363	7.363	(0.874)	11440	0.20000	0.227
61 Dibromochloromethane	129		7.597	7.597	(0.902)	8450	0.20000	0.223
62 Tetrachloroethene	166		7.687	7.687	(0.913)	5353	0.20000	0.234
63 1,2-Dibromoethane	107		7.800	7.800	(0.926)	7675	0.20000	0.227
* 64 Chlorobenzene - d5	117		8.424	8.424	(1.000)	373426	10.0000	
65 Chlorobenzene	112		8.469	8.469	(1.005)	9345	0.20000	0.215
66 Ethyl Benzene	91		8.687	8.687	(1.031)	19078	0.20000	0.237
67 m&p-Xylene	91		8.867	8.867	(1.053)	30208	0.40000	0.473 (M)
68 n-Nonane	43		9.215	9.215	(1.094)	12082	0.20000	0.227
69 Styrene	104		9.276	9.276	(1.101)	8699	0.20000	0.216
70 o-Xylene	91		9.308	9.308	(1.105)	15217	0.20000	0.233
71 Bromoform	173		9.382	9.382	(1.114)	5299	0.20000	0.193
72 1,1,2,2-Tetrachloroethane	83		9.723	9.723	(1.154)	10200	0.20000	0.222
73 Isopropylbenzene	105		9.858	9.858	(1.170)	16744	0.20000	0.219
74 N-Propylbenzene	91		10.430	10.430	(1.238)	22426	0.20000	0.221
75 4-Ethyltoluene	105		10.613	10.613	(1.260)	15811	0.20000	0.215
76 1,3,5-Trimethylbenzene	105		10.691	10.691	(1.269)	16021	0.20000	0.231
77 n-Decane	57		11.038	11.038	(2.031)	10709	0.20000	0.205

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
78 Tert-Butyl Benzene	119	11.134	11.134	(1.322)	12323	0.20000	0.215
79 1,2,4-Trimethylbenzene	105	11.179	11.179	(1.327)	15816	0.20000	0.224
80 Sec- Butylbenzene	105	11.436	11.436	(1.358)	20096	0.20000	0.220
81 1,3-Dichlorobenzene	146	11.469	11.469	(1.361)	7256	0.20000	0.213
82 Benzyl Chloride	91	11.543	11.543	(1.370)	7833	0.20000	0.184
83 1,4-Dichlorobenzene	146	11.604	11.604	(1.377)	6649	0.20000	0.201
84 p-Isopropyltoluene	119	11.642	11.642	(1.382)	16150	0.20000	0.216
85 1,2,3-Trimethylbenzene	105	11.662	11.662	(1.384)	14231	0.20000	0.221
86 1,2-Dichlorobenzene	146	11.912	11.912	(1.414)	7230	0.20000	0.221
87 N-Butylbenzene	91	12.092	12.092	(1.435)	16155	0.20000	0.215
88 1,2-Dibromo-3-Chloropropane	157	12.610	12.610	(1.497)	2770	0.20000	0.316
89 1,2,4-Trichlorobenzene	180	13.555	13.555	(1.609)	2780	0.20000	0.246
90 Naphthalene	128	13.694	13.694	(1.626)	9888	0.20000	0.243
91 Hexachlorobutadiene	225	13.803	13.803	(1.639)	3792	0.20000	0.238

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airH.i\032519.b\08411.D
Report Date: 25-Mar-2019 12:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airH.i
Lab File ID: 08411.D
Lab Smp Id: CAL2
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
Misc Info:

Calibration Date: 25-MAR-2019
Calibration Time: 09:13

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	451734	271040	632428	442589	-2.02
64 Chlorobenzene - d	397119	238271	555967	373426	-5.97

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.43	5.10	5.76	5.43	0.00
64 Chlorobenzene - d	8.43	8.10	8.76	8.42	-0.04

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

Data File: \\192.168.10.12\chem\10airH.i\032519.b\08411.D

Date : 25-MAR-2019 10:29

Client ID:

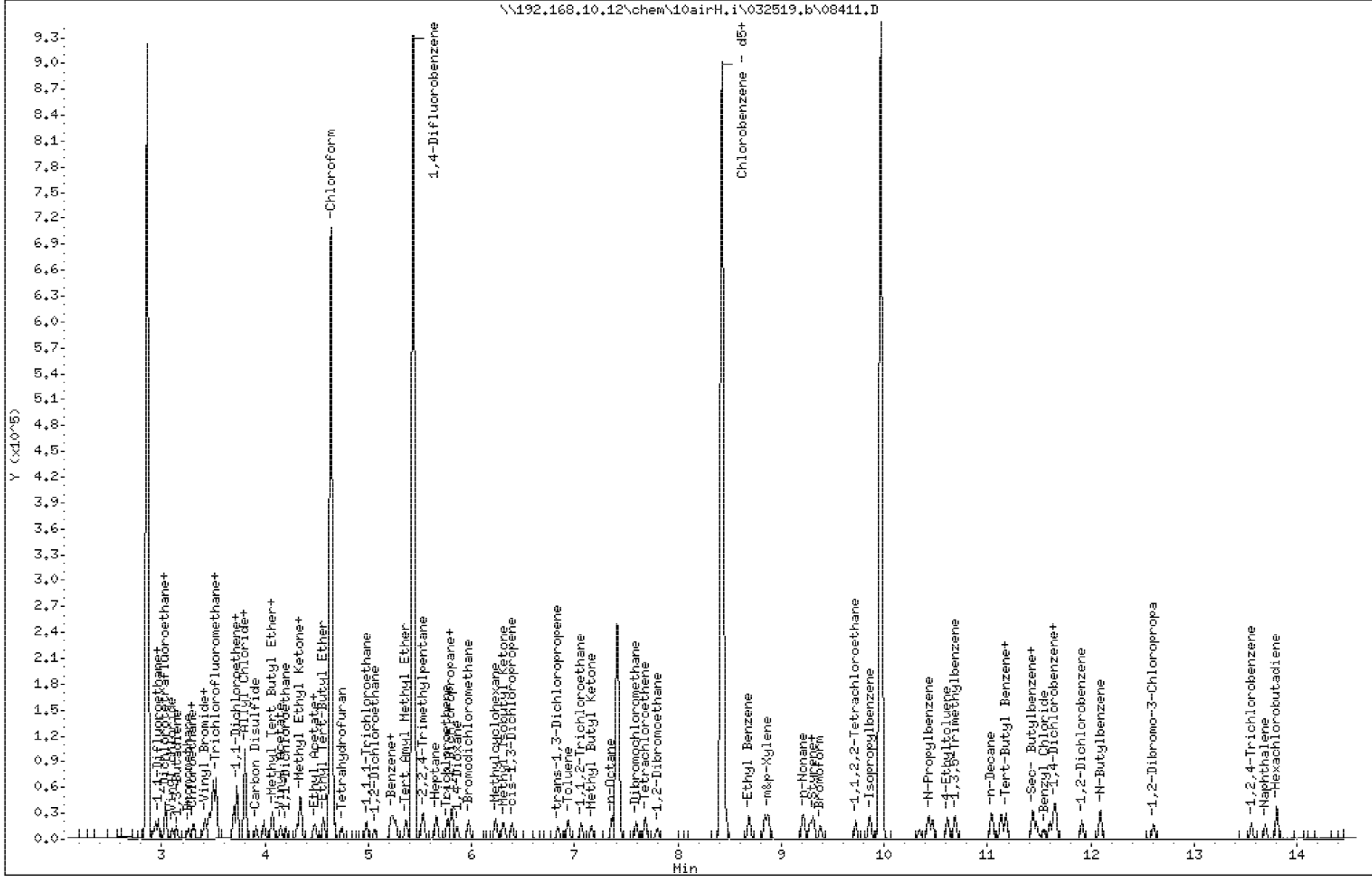
Sample Info:

Column phase: ZB-5MSplus SN338857

Instrument: 10airH.i

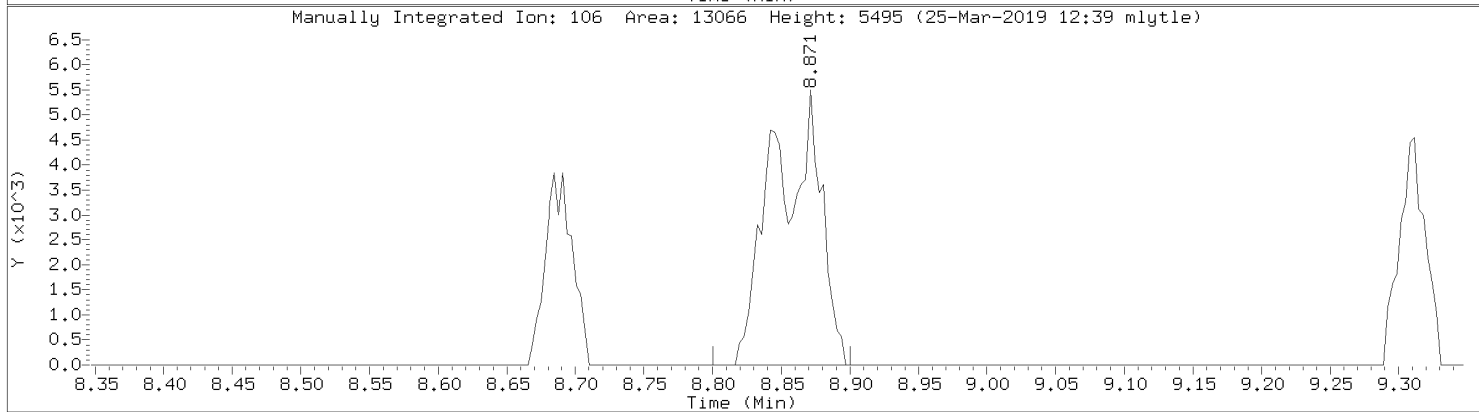
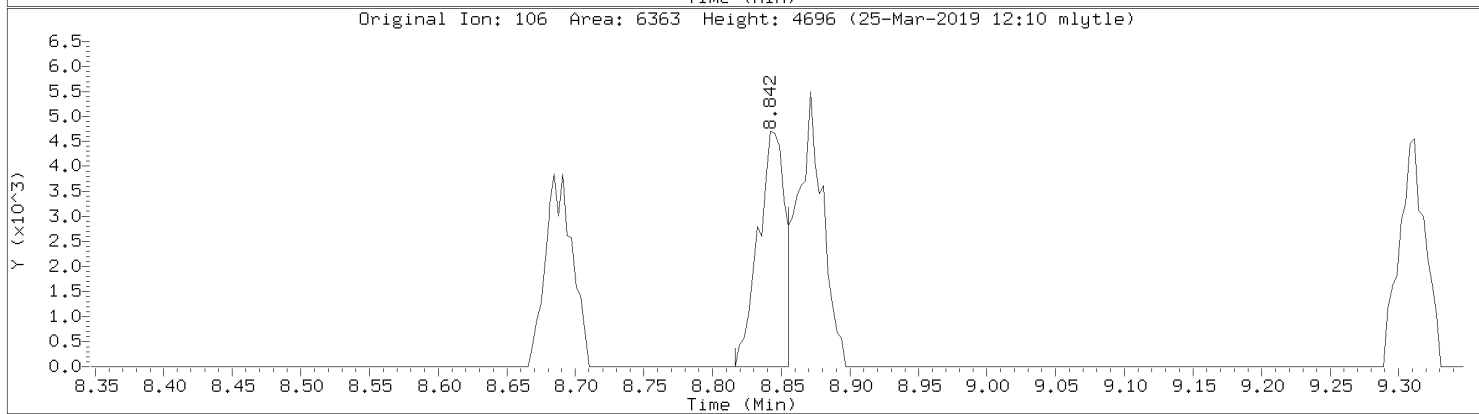
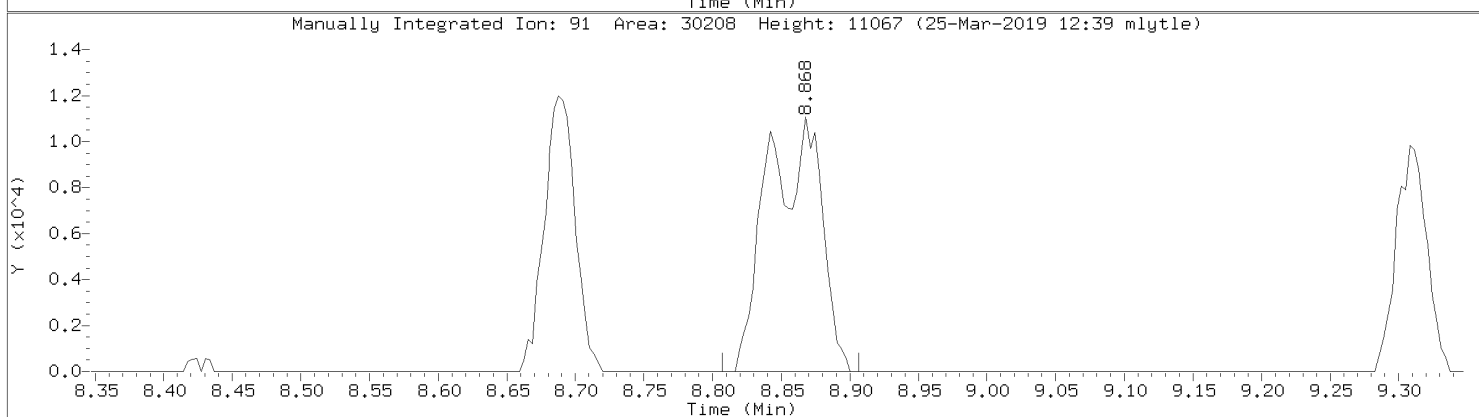
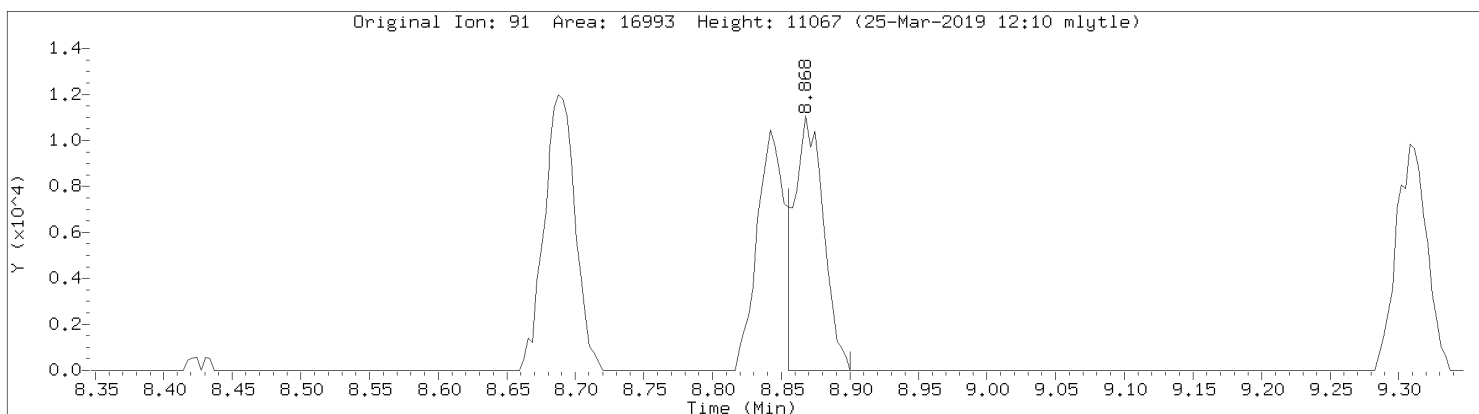
Operator: MJL

Column diameter: 0.32



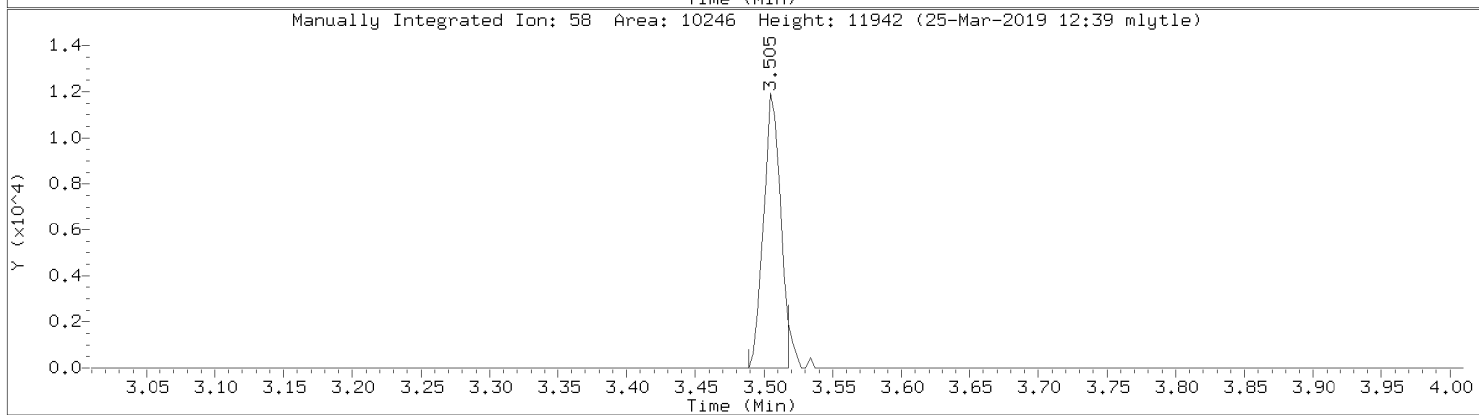
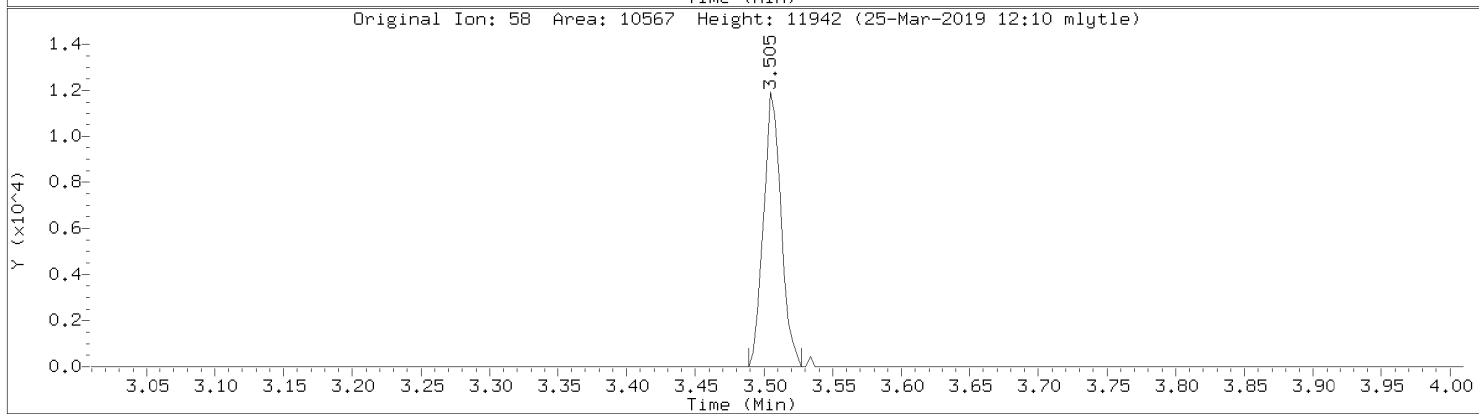
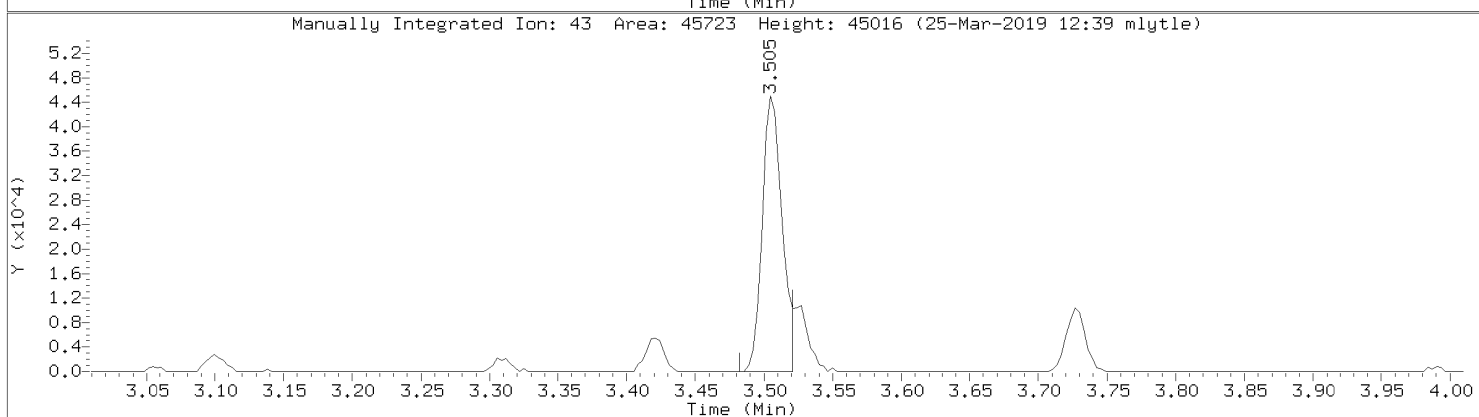
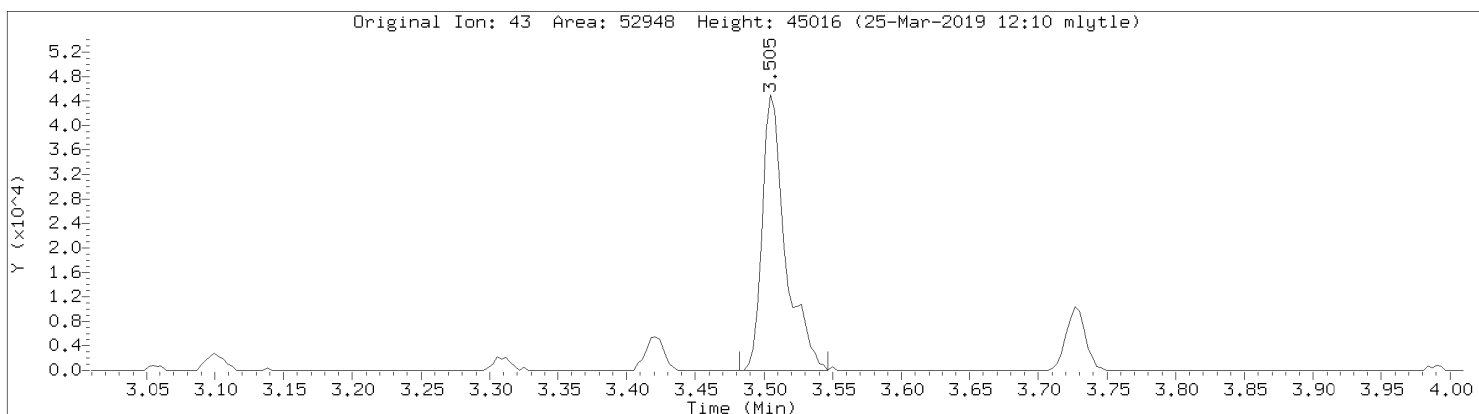
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Injection Date: 25-MAR-2019 10:29
Instrument: 10airH.i
Lab Sample ID: CAL2

Compound: m&p-Xylene
CAS Number: 7816-60-0



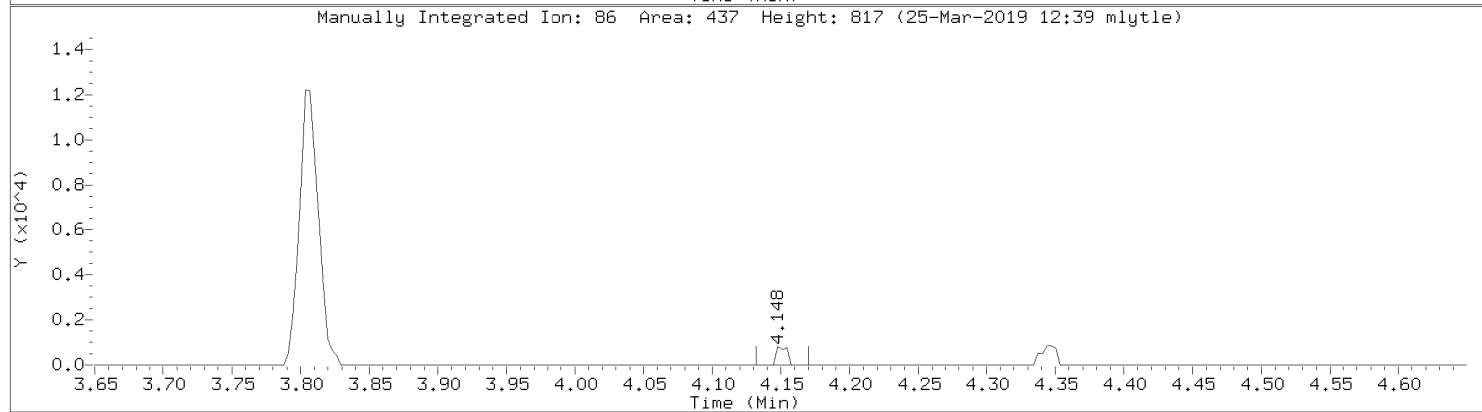
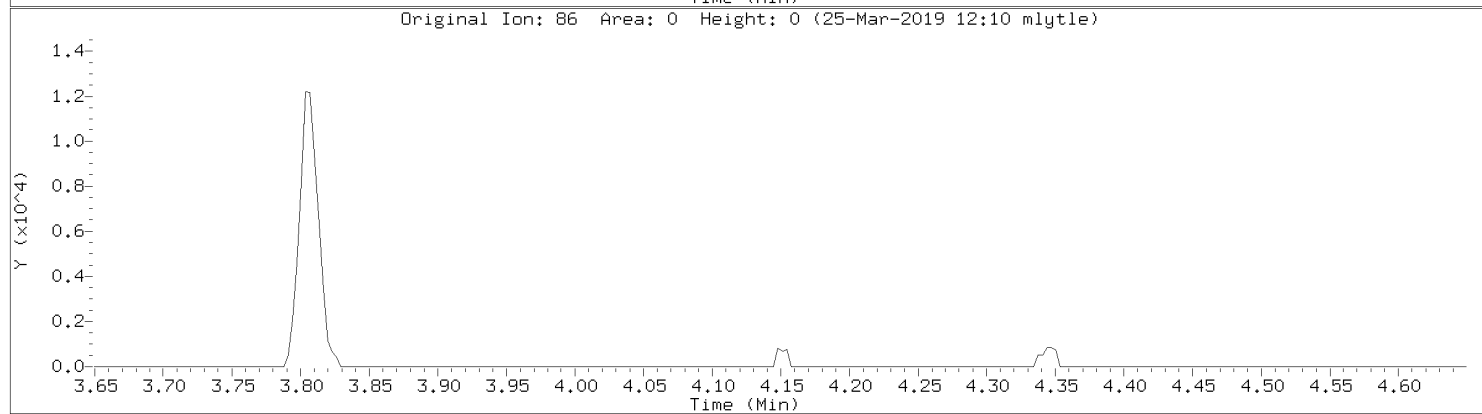
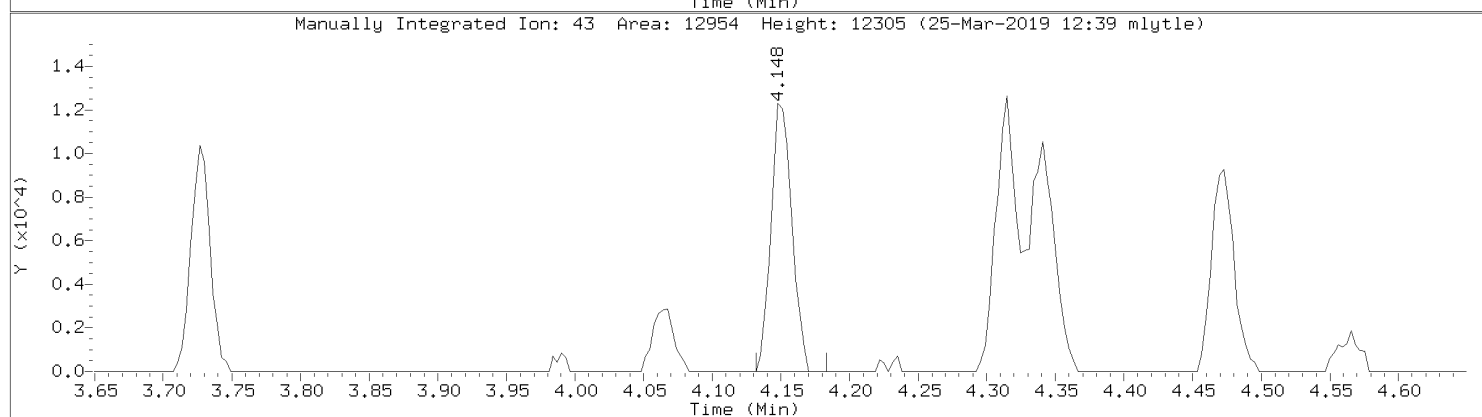
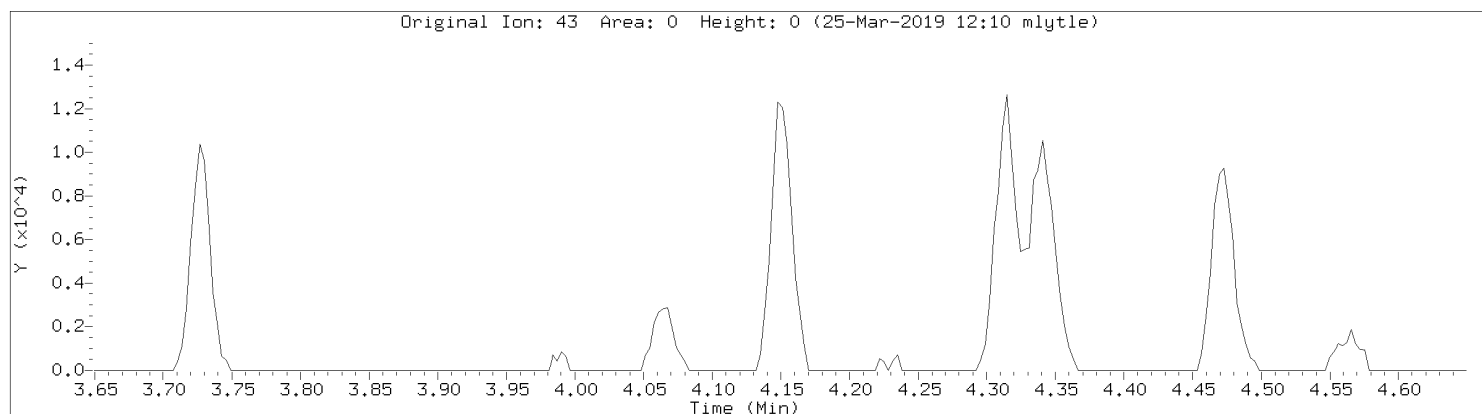
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Injection Date: 25-MAR-2019 10:29
Instrument: 10airH.i
Lab Sample ID: CAL2

Compound: Acetone
CAS Number: 67-64-1



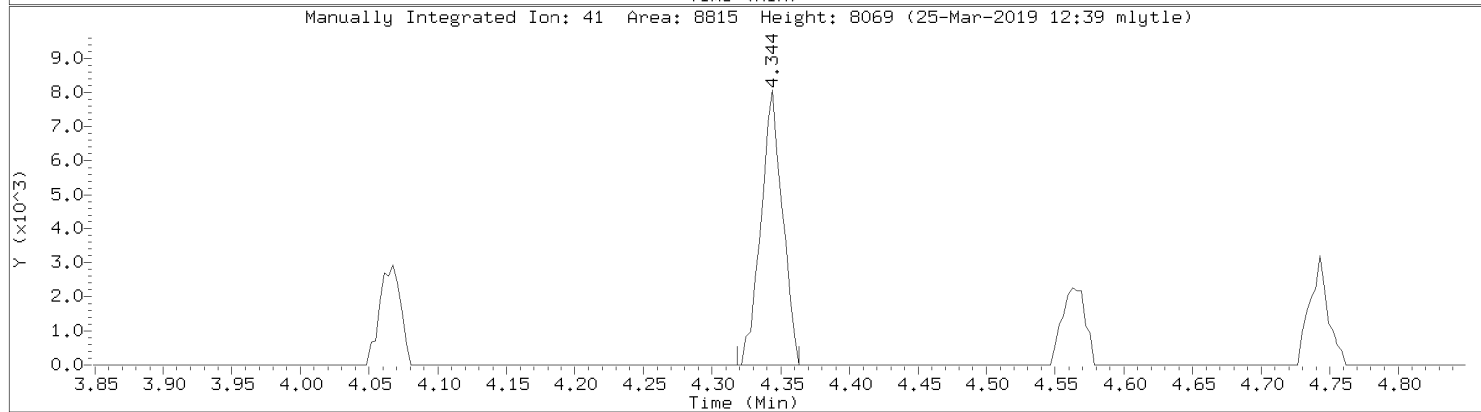
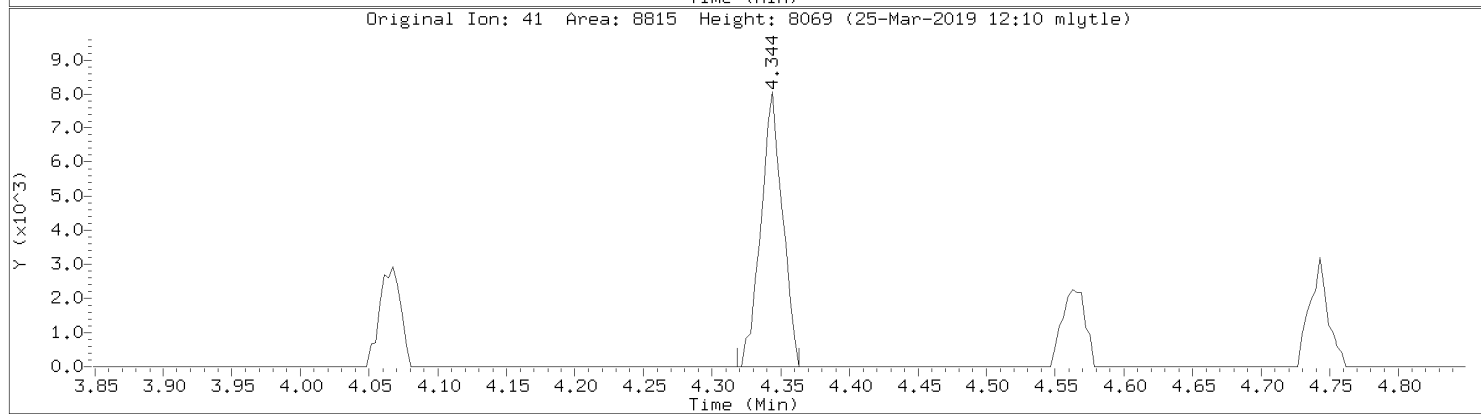
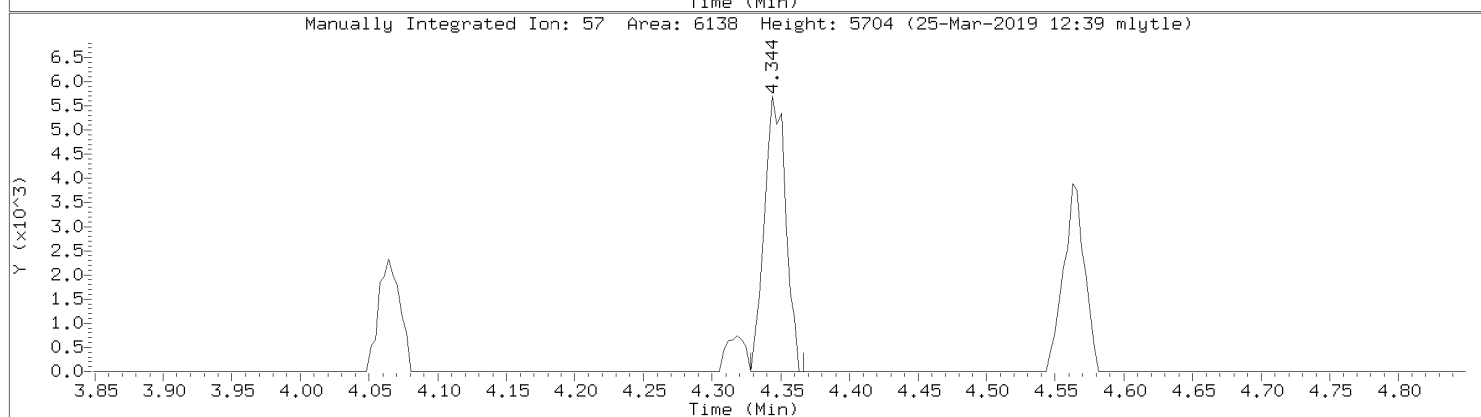
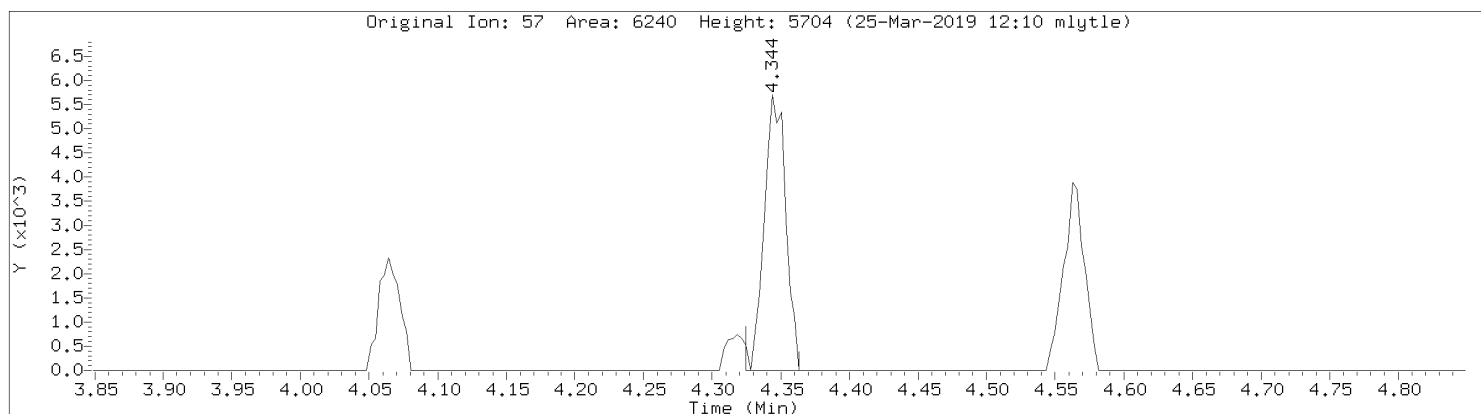
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Injection Date: 25-MAR-2019 10:29
Instrument: 10airH.i
Lab Sample ID: CAL2

Compound: Vinyl Acetate
CAS Number: 108-05-4

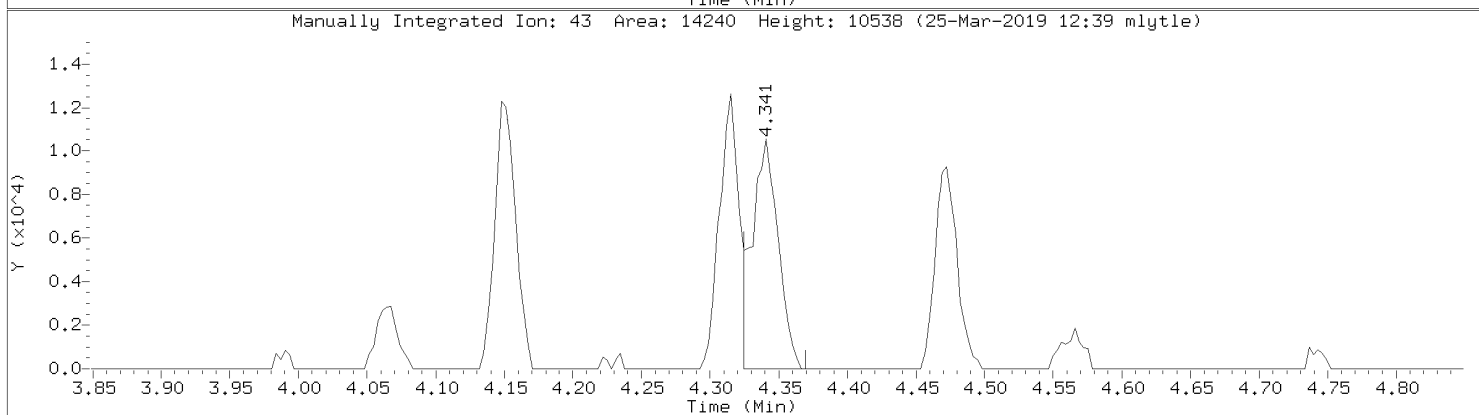
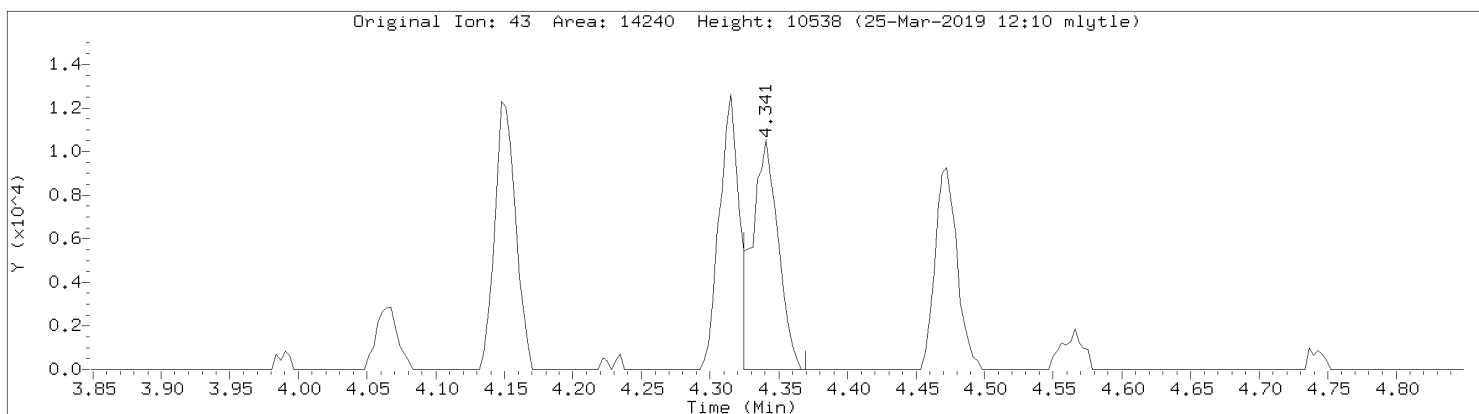


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Injection Date: 25-MAR-2019 10:29
Instrument: 10airH.i
Lab Sample ID: CAL2

Compound: n-Hexane
CAS Number: 110-54-3

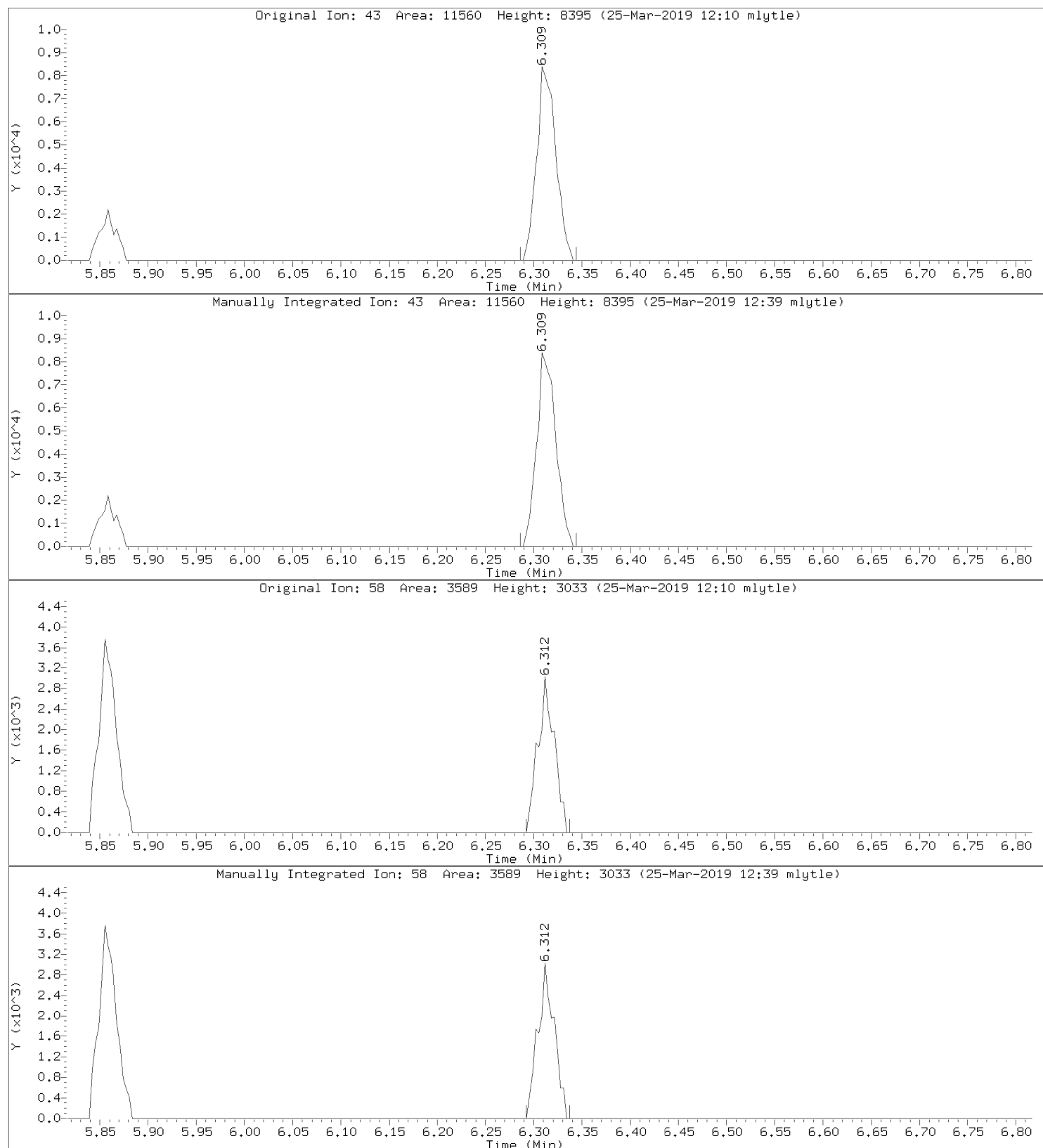


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Instrument: 10airH.i
Lab Sample ID: CAL2

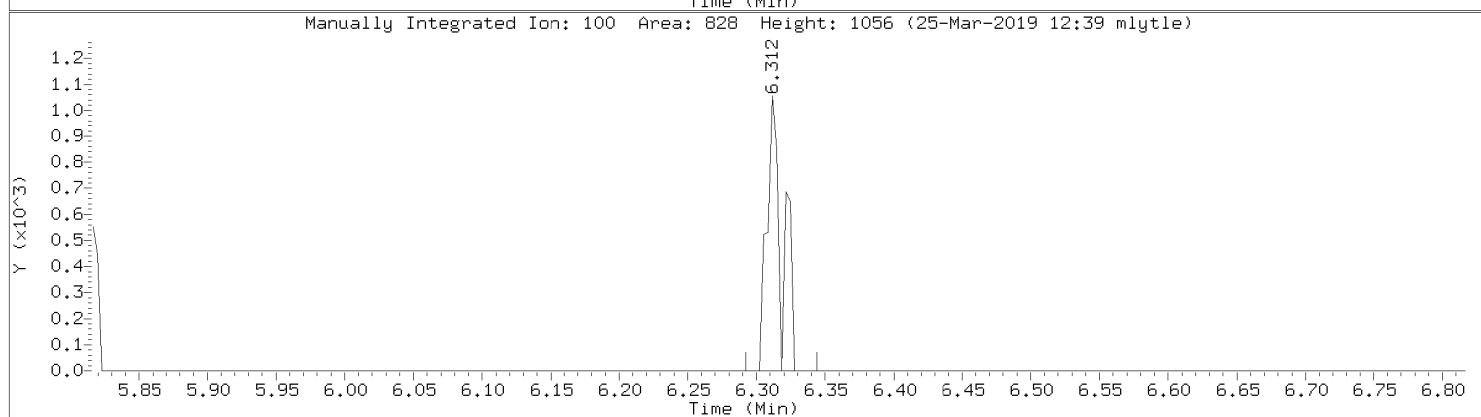
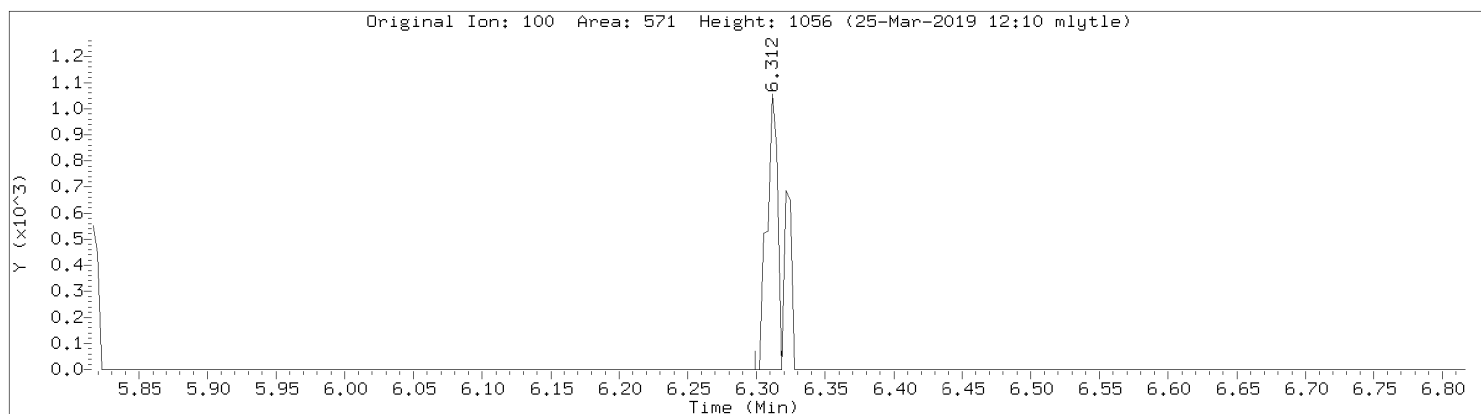


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Injection Date: 25-MAR-2019 10:29
Instrument: 10airH.i
Lab Sample ID: CAL2

Compound: Methyl Isobutyl Ketone
CAS Number: 108-10-1

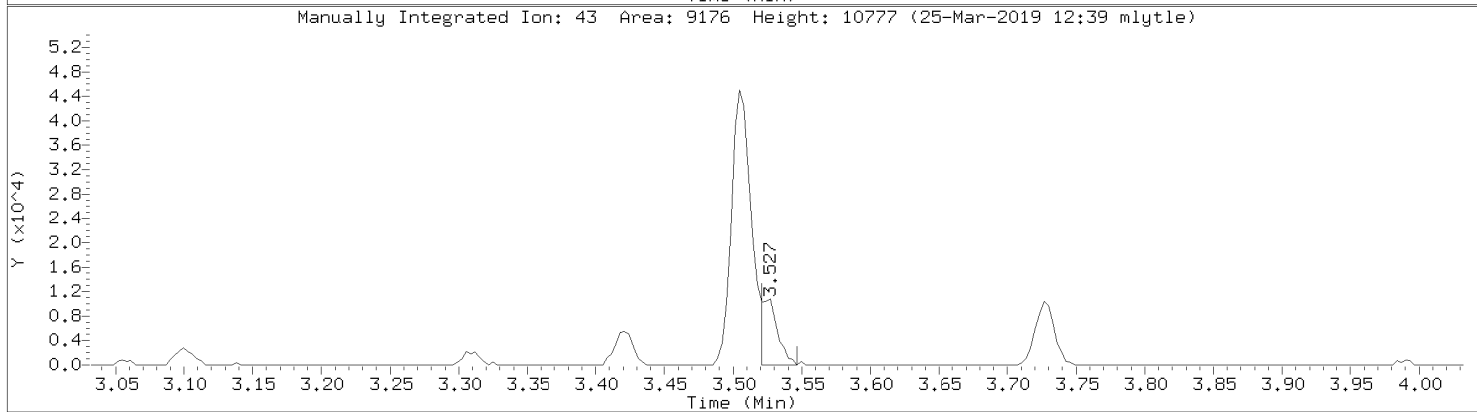
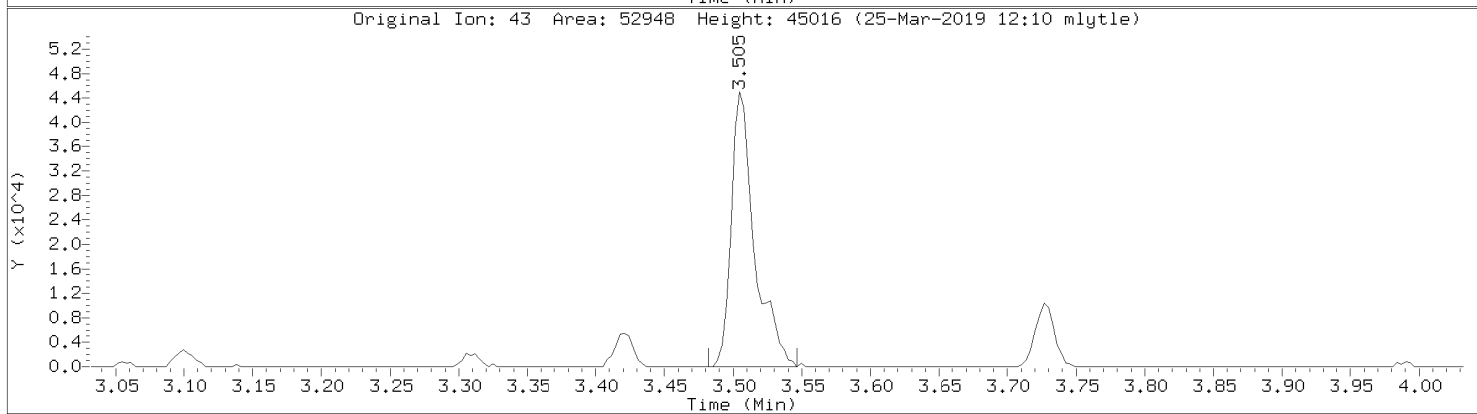
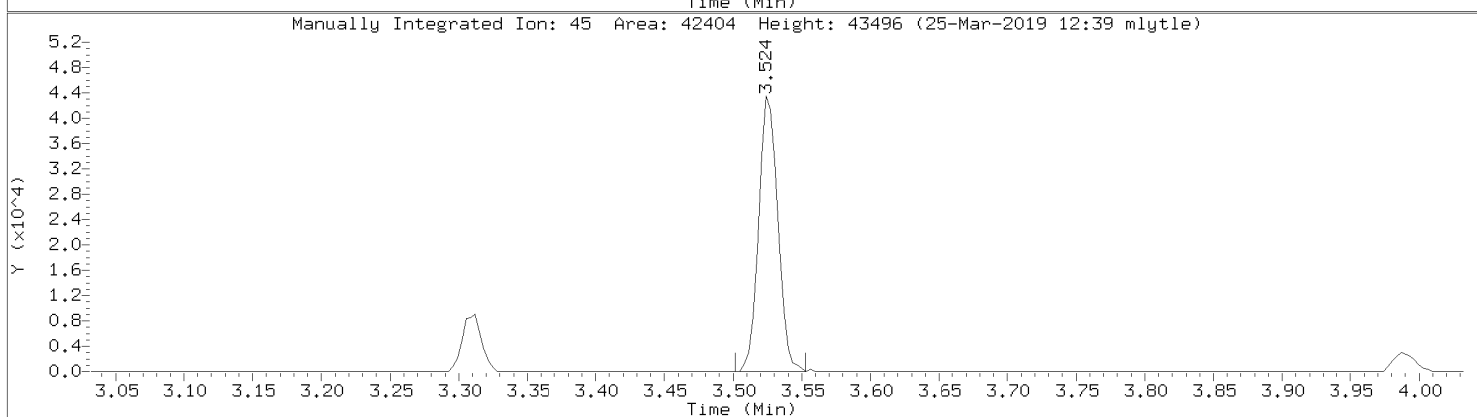
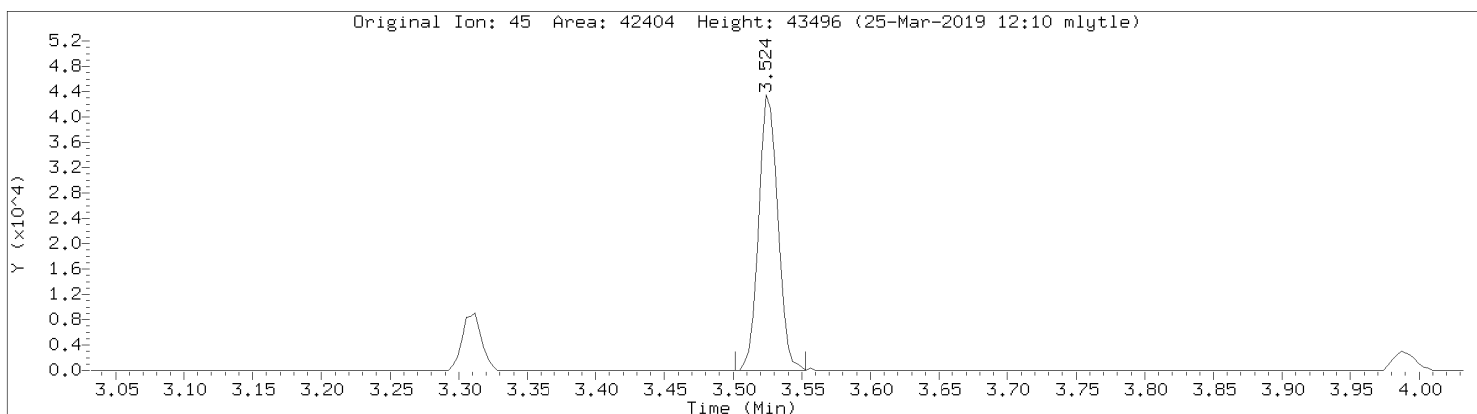


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Instrument: 10airH.i
Lab Sample ID: CAL2



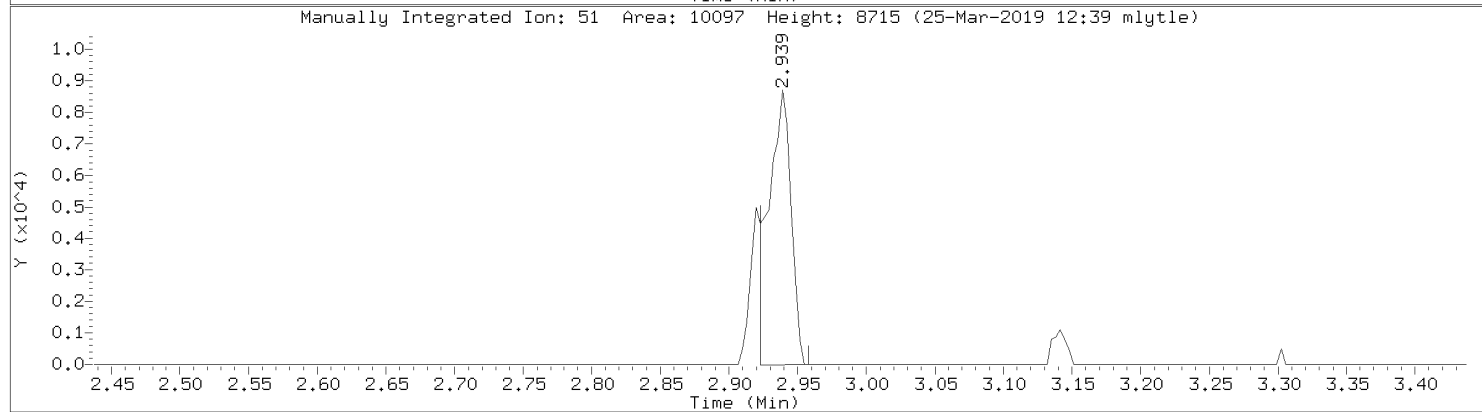
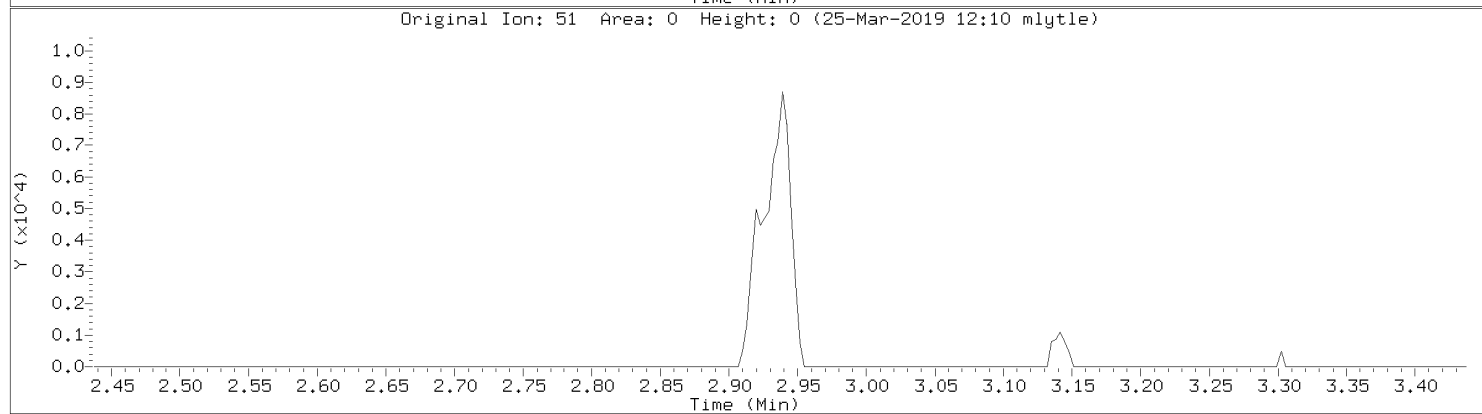
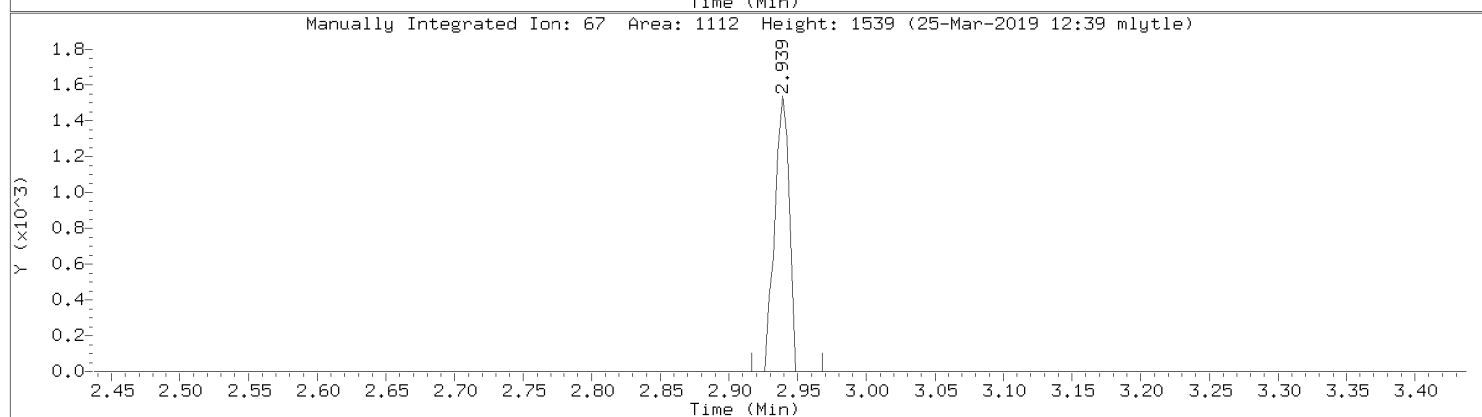
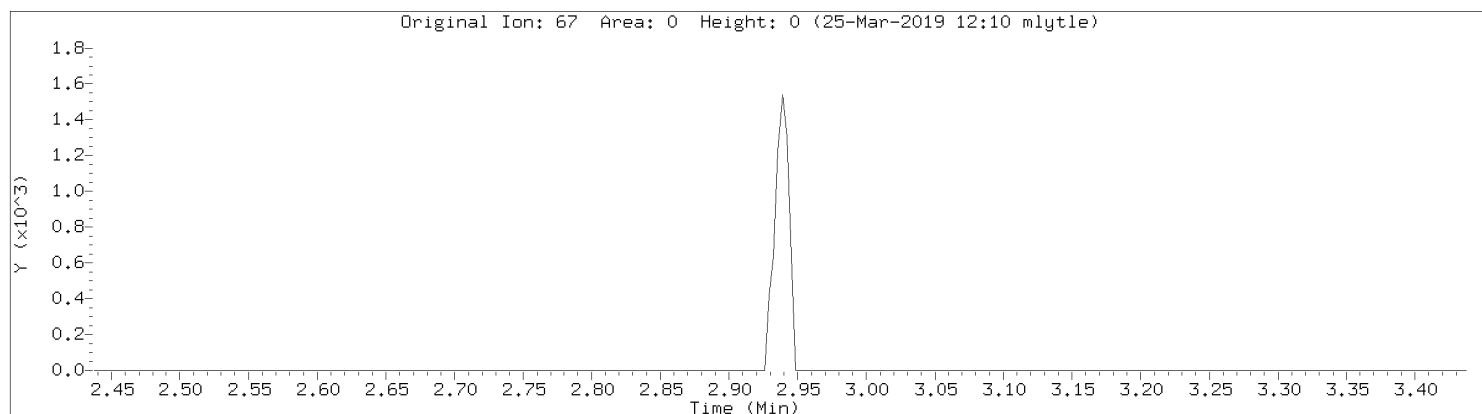
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Injection Date: 25-MAR-2019 10:29
Instrument: 10airH.i
Lab Sample ID: CAL2

Compound: Isopropyl Alcohol
CAS Number: 67-63-0

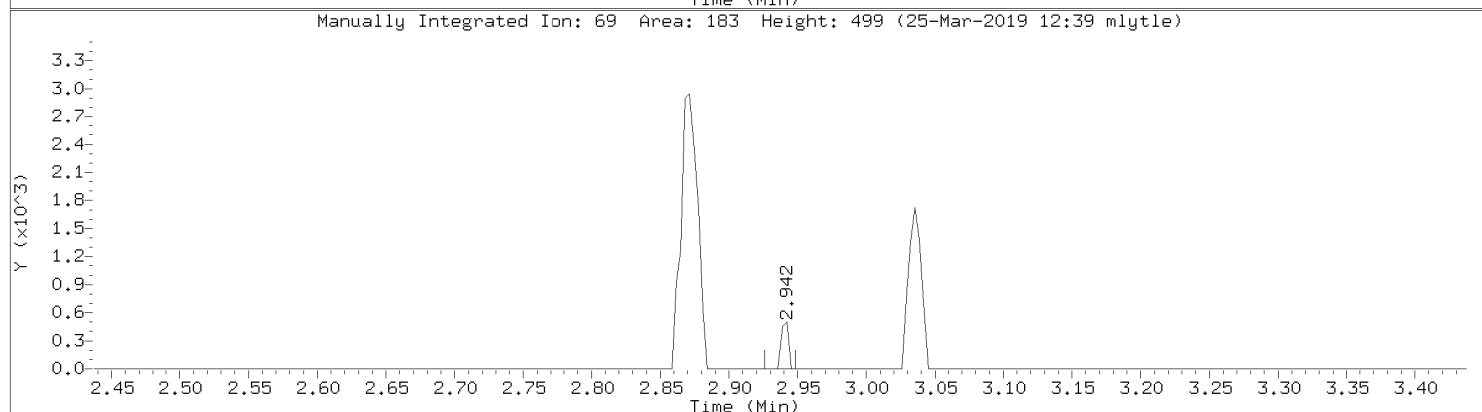
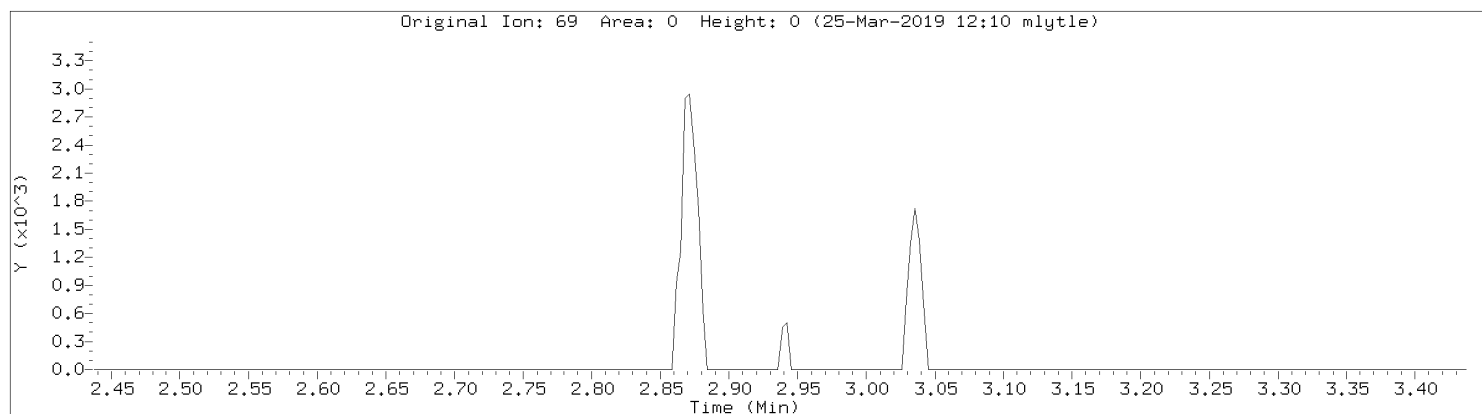


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Injection Date: 25-MAR-2019 10:29
Instrument: 10airH.i
Lab Sample ID: CAL2

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

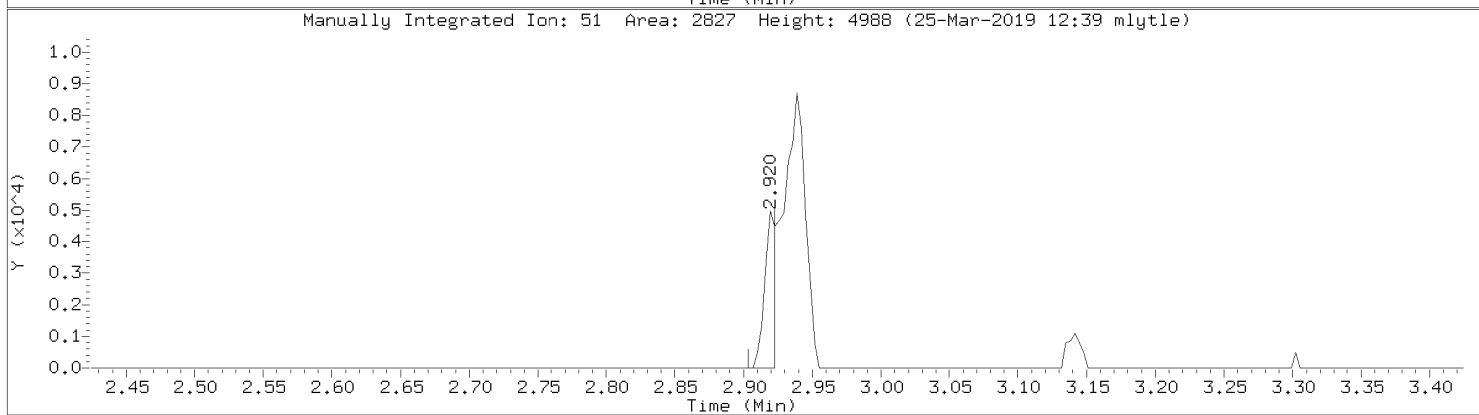
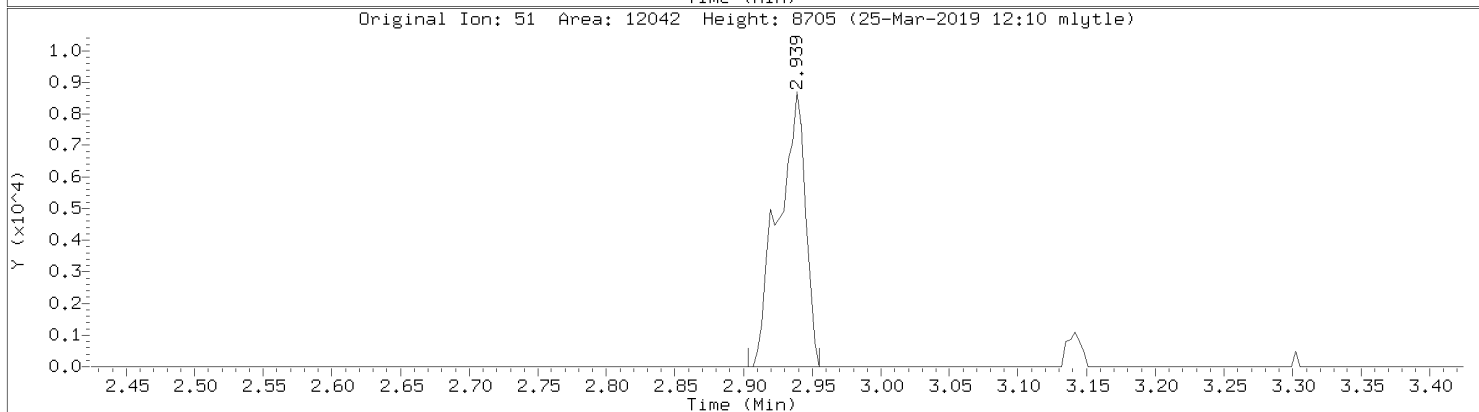
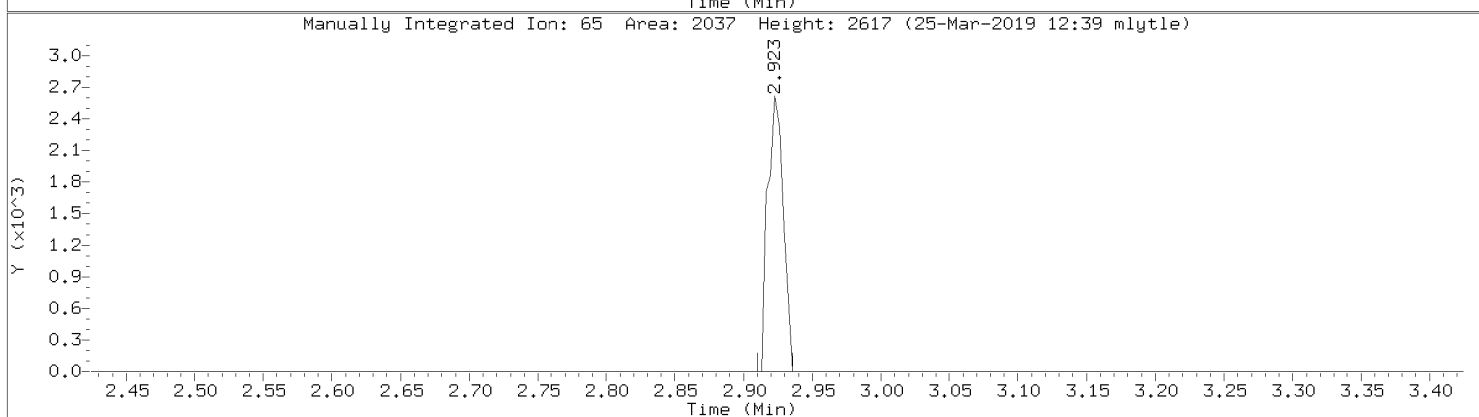
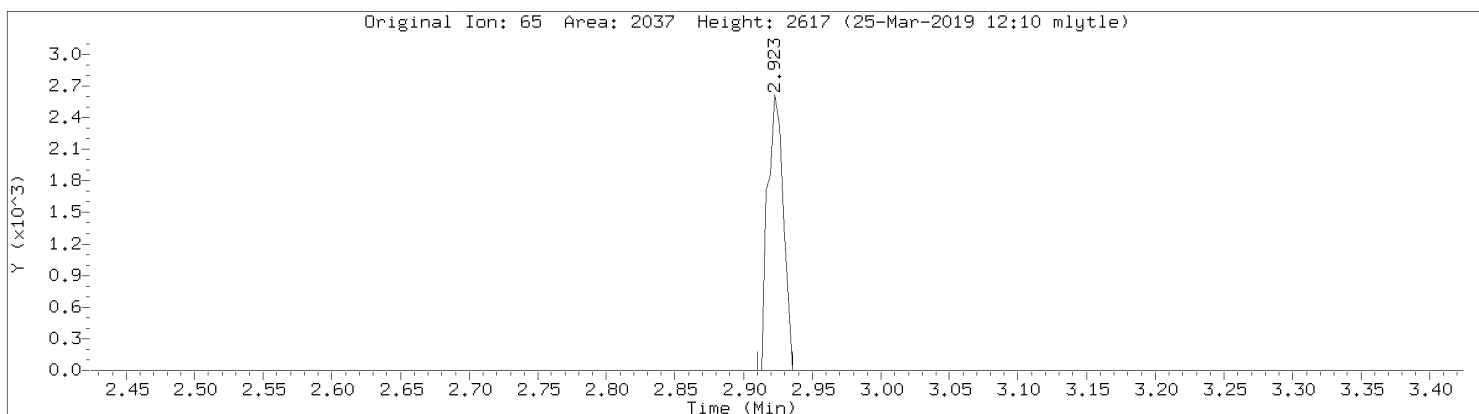


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Lab Sample ID: CAL2

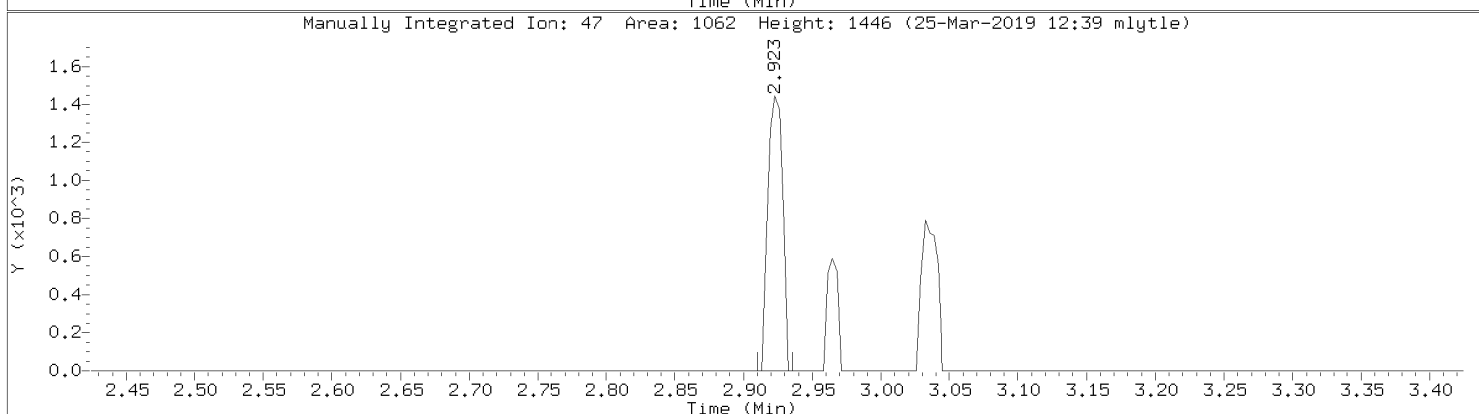
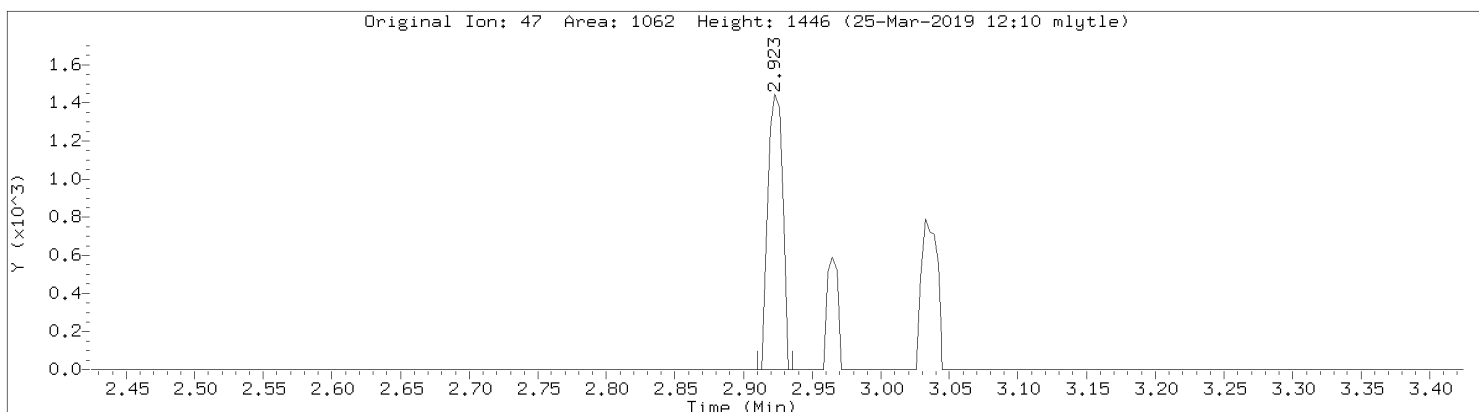


Data File: \\192.168.10.12\chem\10airH.i\032519.b\08411.D
Injection Date: 25-MAR-2019 10:29
Instrument: 10airH.i
Lab Sample ID: CAL2

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6



Data File: \\192.168.10.12\chem\10airH.i\032519.b\08411.D
Injection Date: 25-MAR-2019 10:29
Instrument: 10airH.i
Lab Sample ID: CAL2



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airH.i\032519.b\08412.D
 Lab Smp Id: CAL1
 Inj Date : 25-MAR-2019 10:53
 Operator : MJL Inst ID: 10airH.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Meth Date : 25-Mar-2019 12:39 10airH.i Quant Type: ISTD
 Cal Date : 25-MAR-2019 10:29 Cal File: 08411.D
 Als bottle: 12 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 1,1-Difluoroethane	65		2.922	2.922	(0.538)	1107	0.10000	0.119 (QM)
2 Chlorodifluoromethane	67		2.935	2.935	(0.540)	601	0.10000	0.116 (QM)
3 Propylene	41		2.945	2.945	(0.542)	1571	0.10000	0.113
4 Dichlorodifluoromethane	85		2.964	2.964	(0.546)	6395	0.10000	0.130
5 Dichlorotetrafluoroethane	85		3.035	3.035	(0.559)	6026	0.10000	0.132
6 Chloromethane	50		3.038	3.038	(0.559)	2935	0.10000	0.136
7 Vinyl chloride	62		3.109	3.109	(0.572)	2174	0.10000	0.130
8 1,3-Butadiene	54		3.138	3.138	(0.578)	1339	0.10000	0.108 (Q)
9 Bromomethane	94		3.257	3.257	(0.599)	1934	0.10000	0.125
10 Chloroethane	64		3.299	3.299	(0.607)	939	0.10000	0.119 (M)
11 Ethanol	45		3.315	3.315	(0.610)	5414	0.50000	0.672
12 Vinyl Bromide	106		3.408	3.408	(0.627)	1824	0.10000	0.128
13 Isopentane	43		3.424	3.424	(0.630)	3032	0.10000	0.140
14 Freon 123	83		3.456	3.456	(0.636)	4709	0.10000	0.125
15 Trichlorofluoromethane	101		3.482	3.482	(0.641)	6034	0.10000	0.126
16 Acrolein	56		3.485	3.485	(0.641)	1993	0.25000	0.291
17 Acetone	43		3.508	3.508	(0.646)	25703	0.50000	0.713 (M)
18 Isopropyl Alcohol	45		3.530	3.530	(0.650)	23711	0.50000	0.667 (M)
19 1,1-Dichloroethene	61		3.694	3.694	(0.680)	4014	0.10000	0.128
20 Acrylonitrile	53		3.700	3.700	(0.681)	4135	0.25000	0.309
21 Tert Butyl Alcohol (TBA)	59		3.729	3.729	(0.686)	5261	0.10000	0.123
22 Methyl Acetate	43		3.729	3.729	(0.686)	5324	0.10000	0.120
23 Freon 113	101		3.733	3.733	(0.687)	4186	0.10000	0.123

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Allyl Chloride	76		3.807	3.807	(0.701)	701	0.10000	0.0971 (QM)
25 Methylene chloride	49		3.807	3.807	(0.701)	15848	0.50000	0.643
26 Carbon Disulfide	76		3.913	3.913	(0.720)	5926	0.10000	0.124
27 Methyl Tert Butyl Ether	73		4.067	4.067	(0.749)	5646	0.10000	0.117
28 trans-1,2-dichloroethene	96		4.070	4.070	(0.749)	1966	0.10000	0.123
29 Vinyl Acetate	43		4.147	4.147	(0.763)	6587	0.10000	0.114
30 1,1-Dichloroethane	63		4.199	4.199	(0.773)	4293	0.10000	0.128
31 Methyl Ethyl Ketone	72		4.318	4.318	(0.795)	1325	0.10000	0.132
32 Di-isopropyl Ether	45		4.344	4.344	(0.799)	8528	0.10000	0.123
33 n-Hexane	57		4.347	4.347	(0.800)	3233	0.10000	0.120
34 Ethyl Acetate	43		4.475	4.475	(0.824)	5597	0.10000	0.116 (M)
35 cis-1,2-Dichloroethene	96		4.488	4.488	(0.826)	1870	0.10000	0.110 (Q)
36 Ethyl Tert-Butyl Ether	59		4.569	4.569	(0.841)	7518	0.10000	0.122
37 Chloroform	83		4.665	4.665	(0.859)	5312	0.10000	0.128 (M)
38 Tetrahydrofuran	42		4.745	4.745	(0.873)	2723	0.10000	0.127
39 1,1,1-Trichloroethane	97		4.983	4.983	(0.917)	5142	0.10000	0.124
40 1,2-Dichloroethane	62		5.061	5.061	(0.931)	3580	0.10000	0.118
41 Benzene	78		5.221	5.221	(0.961)	6573	0.10000	0.127
42 Carbon tetrachloride	117		5.237	5.237	(0.964)	4752	0.10000	0.118
43 Cyclohexane	56		5.263	5.263	(0.969)	3065	0.10000	0.111 (QM)
44 Tert Amyl Methyl Ether	73		5.363	5.363	(0.987)	6249	0.10000	0.122
* 45 1,4-Difluorobenzene	114		5.434	5.434	(1.000)	440562	10.0000	
46 2,2,4-Trimethylpentane	57		5.527	5.527	(1.017)	11855	0.10000	0.133
47 Heptane	43		5.659	5.659	(1.041)	4316	0.10000	0.116
48 Trichloroethene	130		5.765	5.765	(1.061)	2480	0.10000	0.120
49 1,2-Dichloropropane	63		5.803	5.803	(1.068)	2461	0.10000	0.117
50 Methyl methacrylate	69		5.803	5.803	(1.068)	2151	0.10000	0.110
51 1,4-Dioxane	88		5.864	5.864	(1.079)	3309	0.25000	0.302
52 Bromodichloromethane	83		5.967	5.967	(1.098)	5437	0.10000	0.120
53 Methylcyclohexane	98		6.234	6.234	(1.147)	1113	0.10000	0.0982 (Q)
54 Methyl Isobutyl Ketone	43		6.315	6.315	(1.162)	6365	0.10000	0.121 (M)
55 cis-1,3-Dichloropropene	75		6.398	6.398	(1.178)	4344	0.10000	0.125
56 trans-1,3-Dichloropropene	75		6.839	6.839	(1.259)	3592	0.10000	0.118
57 Toluene	91		6.935	6.935	(1.276)	7788	0.10000	0.127
58 1,1,2-Trichloroethane	97		7.064	7.064	(1.300)	2587	0.10000	0.122
59 Methyl Butyl Ketone	43		7.163	7.163	(0.850)	5423	0.10000	0.113
60 n-Octane	43		7.366	7.366	(0.874)	6376	0.10000	0.127
61 Dibromochloromethane	129		7.597	7.597	(0.902)	4364	0.10000	0.116
62 Tetrachloroethene	166		7.681	7.681	(0.912)	2597	0.10000	0.114
63 1,2-Dibromoethane	107		7.803	7.803	(0.926)	3903	0.10000	0.116
* 64 Chlorobenzene - d5	117		8.424	8.424	(1.000)	371834	10.0000	
65 Chlorobenzene	112		8.469	8.469	(1.005)	5741	0.10000	0.133
66 Ethyl Benzene	91		8.684	8.684	(1.031)	10740	0.10000	0.134
67 m&p-Xylene	91		8.845	8.845	(1.050)	16820	0.20000	0.265 (M)
68 n-Nonane	43		9.211	9.211	(1.093)	6128	0.10000	0.116
69 Styrene	104		9.273	9.273	(1.101)	4646	0.10000	0.116
70 o-Xylene	91		9.311	9.311	(1.105)	8530	0.10000	0.131
71 Bromoform	173		9.379	9.379	(1.113)	2777	0.10000	0.102
72 1,1,2,2-Tetrachloroethane	83		9.723	9.723	(1.154)	5173	0.10000	0.113
73 Isopropylbenzene	105		9.864	9.864	(1.171)	9105	0.10000	0.120
74 N-Propylbenzene	91		10.433	10.433	(1.239)	12021	0.10000	0.119
75 4-Ethyltoluene	105		10.613	10.613	(1.260)	8418	0.10000	0.115
76 1,3,5-Trimethylbenzene	105		10.687	10.687	(1.269)	9025	0.10000	0.131
77 n-Decane	57		11.041	11.041	(2.032)	6113	0.10000	0.117

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
78 Tert-Butyl Benzene	119	11.131	11.131	(1.321)	6664	0.10000	0.117
79 1,2,4-Trimethylbenzene	105	11.179	11.179	(1.327)	10070	0.10000	0.143
80 Sec- Butylbenzene	105	11.440	11.440	(1.358)	10519	0.10000	0.115
81 1,3-Dichlorobenzene	146	11.472	11.472	(1.362)	3570	0.10000	0.105
82 Benzyl Chloride	91	11.546	11.546	(1.371)	3850	0.10000	0.0909
83 1,4-Dichlorobenzene	146	11.607	11.607	(1.378)	3759	0.10000	0.114
84 p-Isopropyltoluene	119	11.645	11.645	(1.382)	8687	0.10000	0.117
85 1,2,3-Trimethylbenzene	105	11.658	11.658	(1.384)	7340	0.10000	0.114
86 1,2-Dichlorobenzene	146	11.912	11.912	(1.414)	3675	0.10000	0.113
87 N-Butylbenzene	91	12.096	12.096	(1.436)	8407	0.10000	0.113
88 1,2-Dibromo-3-Chloropropane	157	12.607	12.607	(1.497)	1433	0.10000	0.249
89 1,2,4-Trichlorobenzene	180	13.555	13.555	(1.609)	1457	0.10000	0.183 (M)
90 Naphthalene	128	13.694	13.694	(1.626)	4696	0.10000	0.151
91 Hexachlorobutadiene	225	13.806	13.806	(1.639)	1940	0.10000	0.151

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airH.i\032519.b\08412.D
 Report Date: 25-Mar-2019 12:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 10airH.i
 Lab File ID: 08412.D
 Lab Smp Id: CAL1
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: MJL
 Method File: \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Misc Info:

Calibration Date: 25-MAR-2019
 Calibration Time: 09:13
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	451734	271040	632428	440562	-2.47
64 Chlorobenzene - d	397119	238271	555967	371834	-6.37

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.43	5.10	5.76	5.43	0.00
64 Chlorobenzene - d	8.43	8.10	8.76	8.42	-0.04

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

Data File: \\192.168.10.12\chem\10airH.i\032519.b\08412.D

Date : 25-MAR-2019 10:53

Client ID:

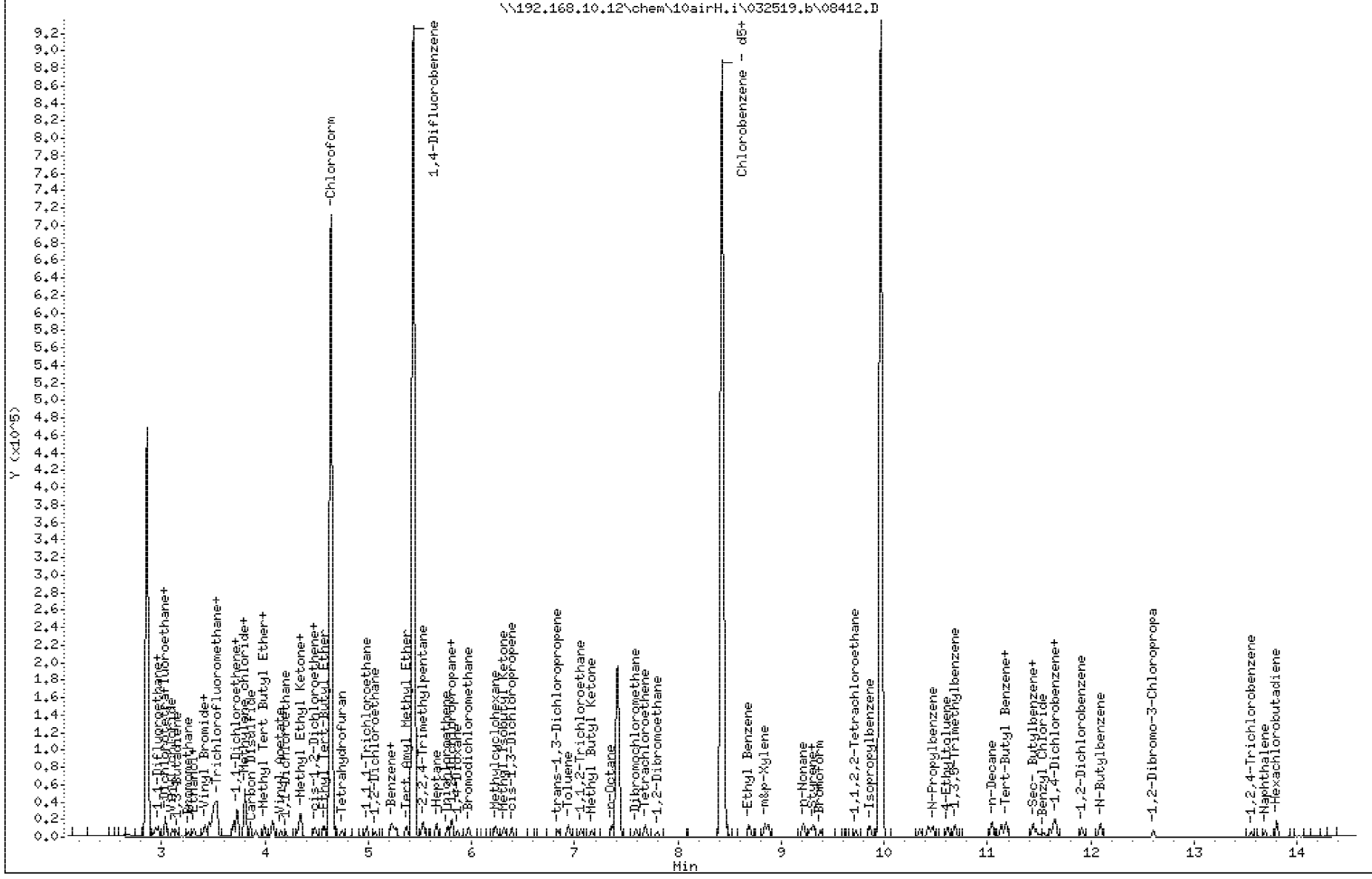
Instrument: 10airH.i

Sample Info:

Operator: MJL

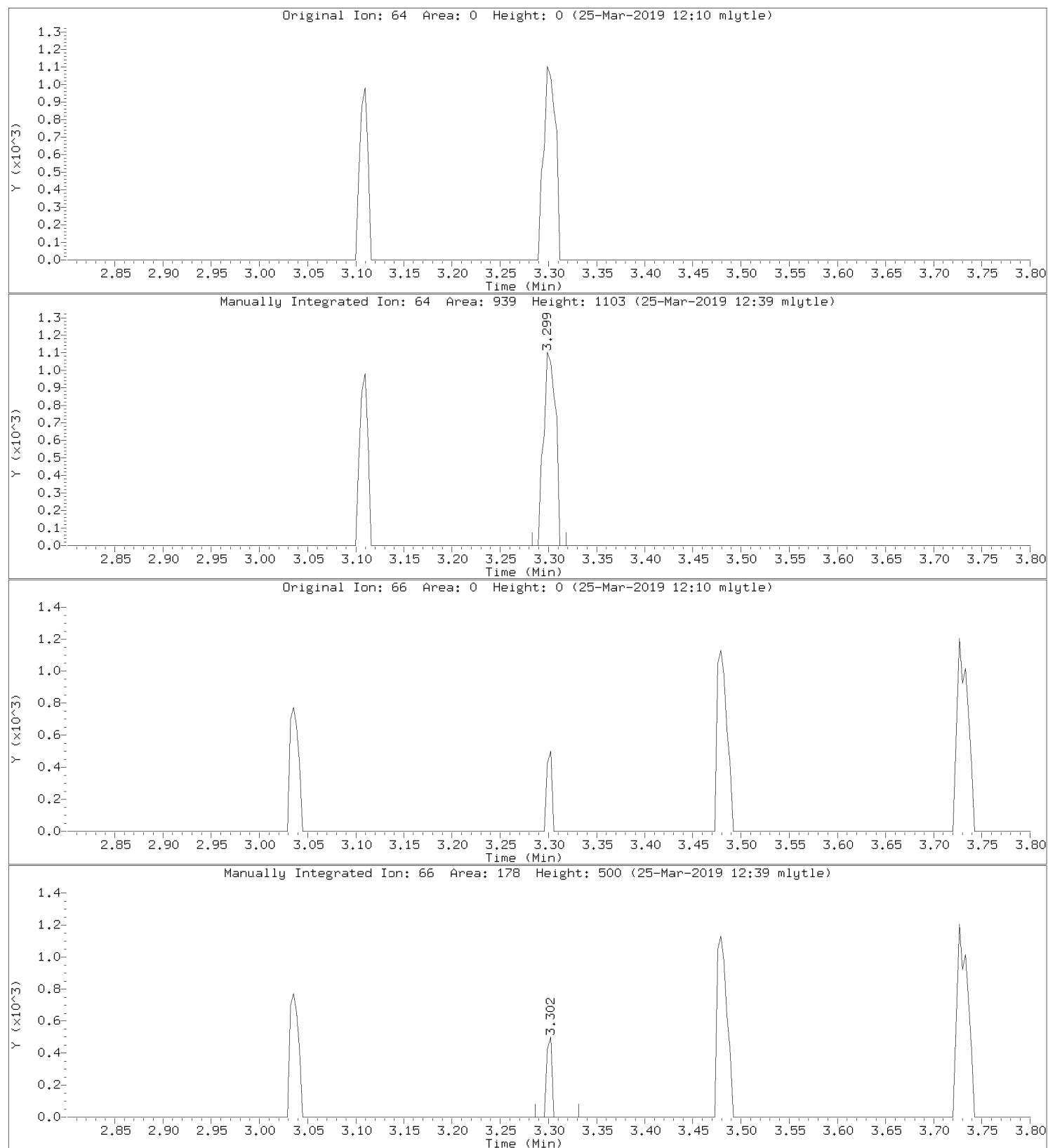
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Column diameter: 0,32



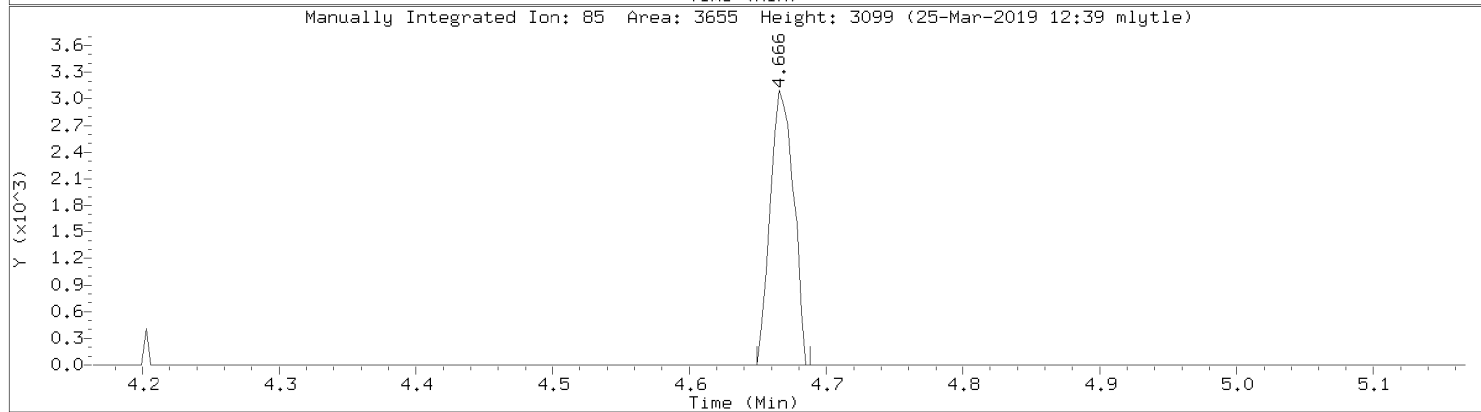
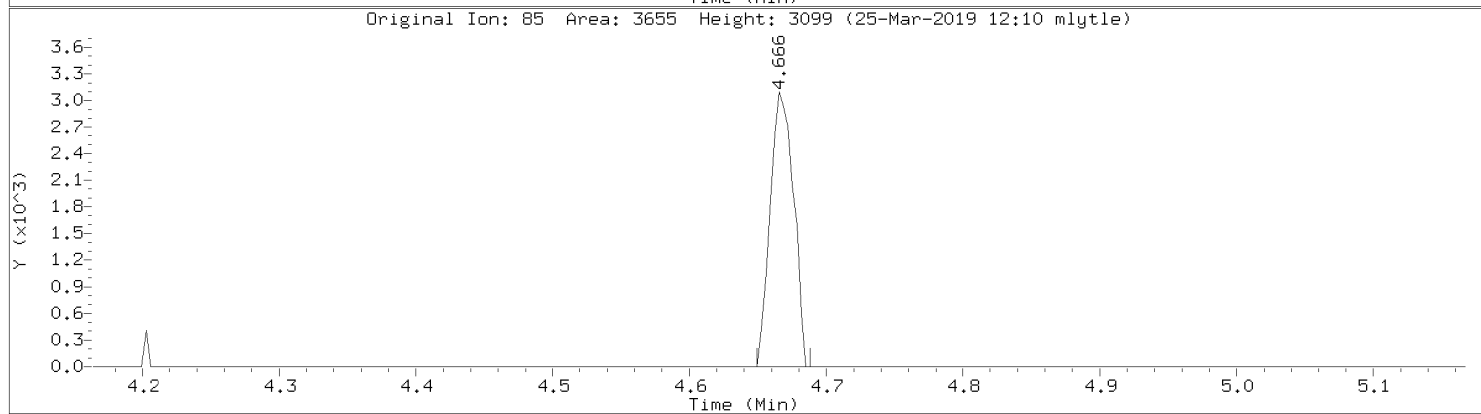
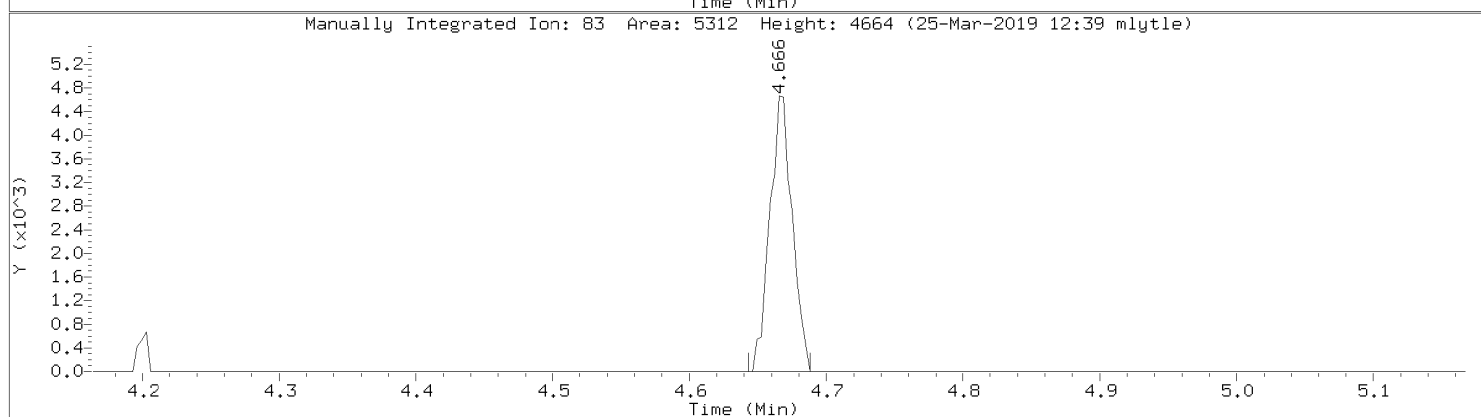
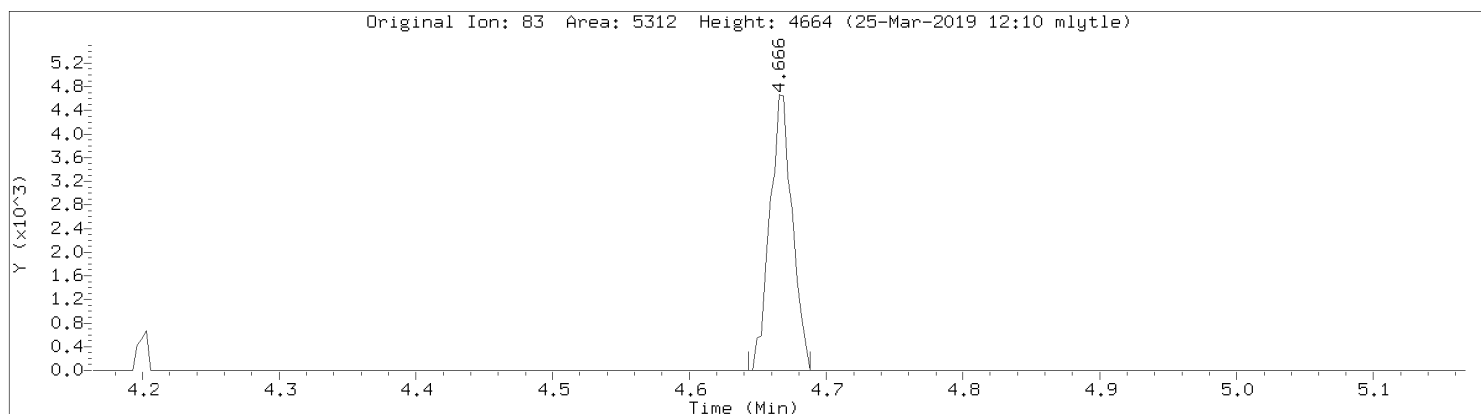
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Injection Date: 25-MAR-2019 10:53
Instrument: 10airH.i
Lab Sample ID: CAL1

Compound: Chloroethane
CAS Number: 75-00-3

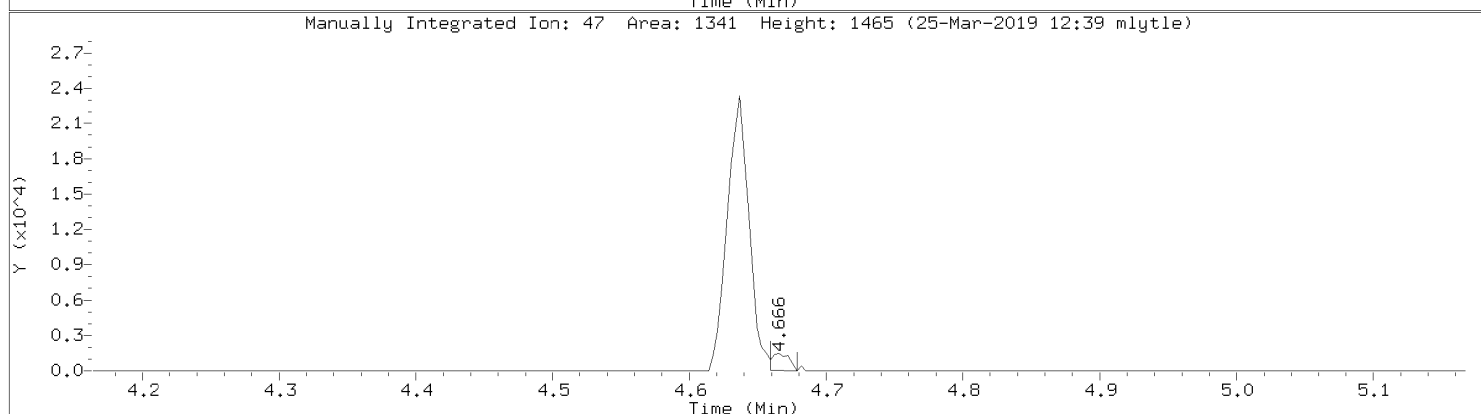
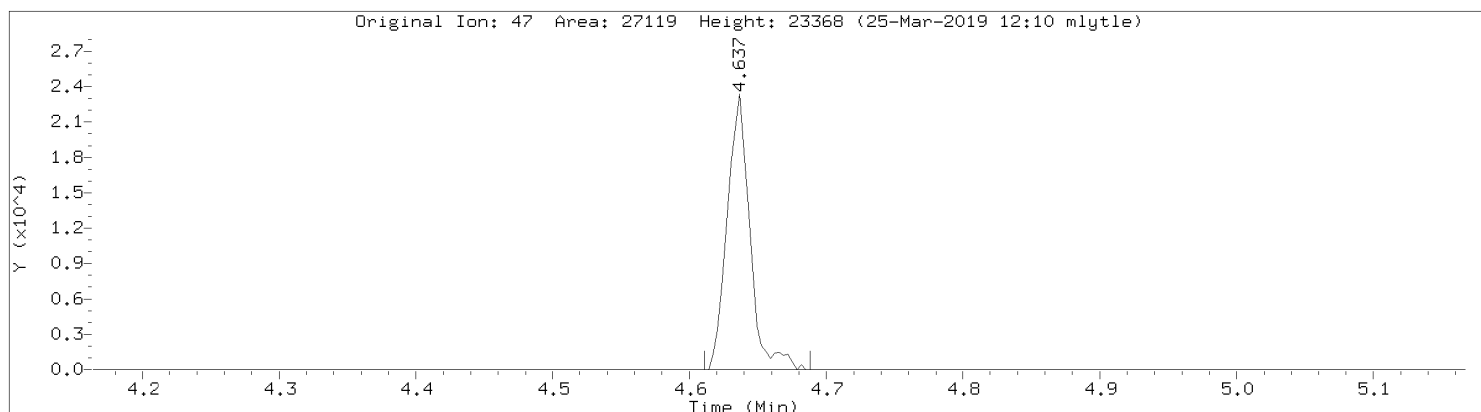


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Instrument: 10airH.i
Lab Sample ID: CAL1

Compound: Chloroform
CAS Number: 67-66-3

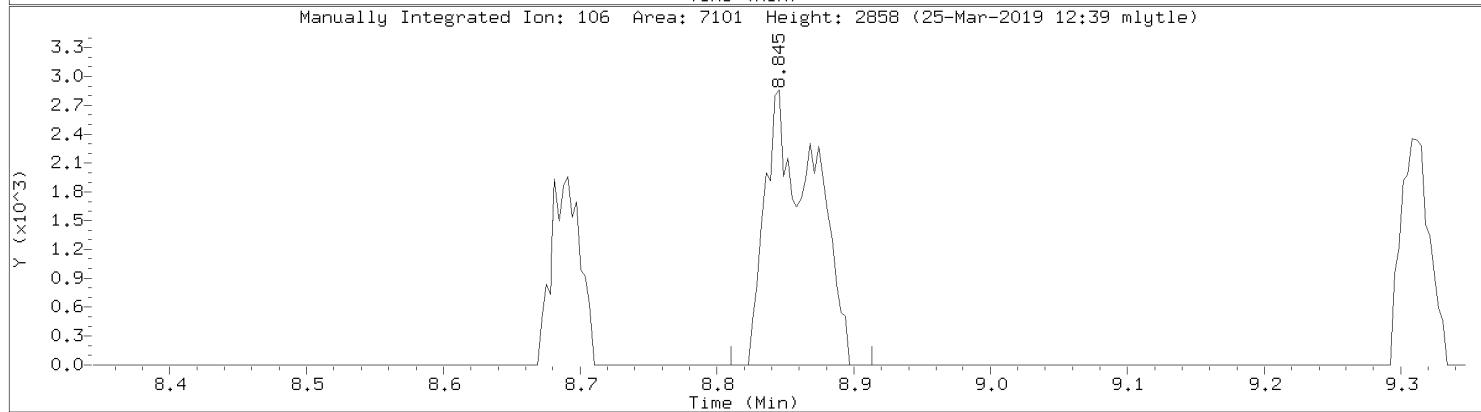
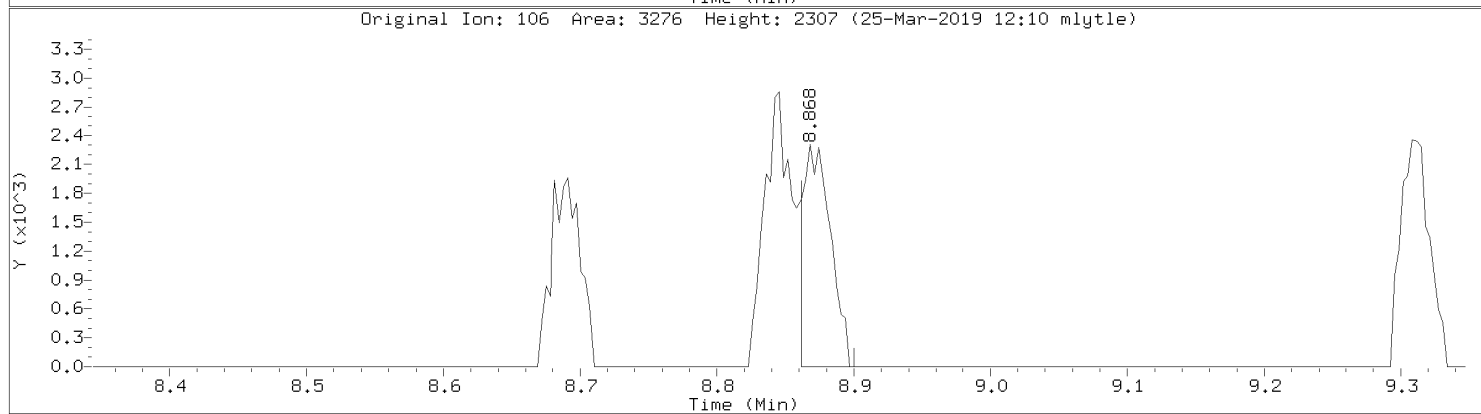
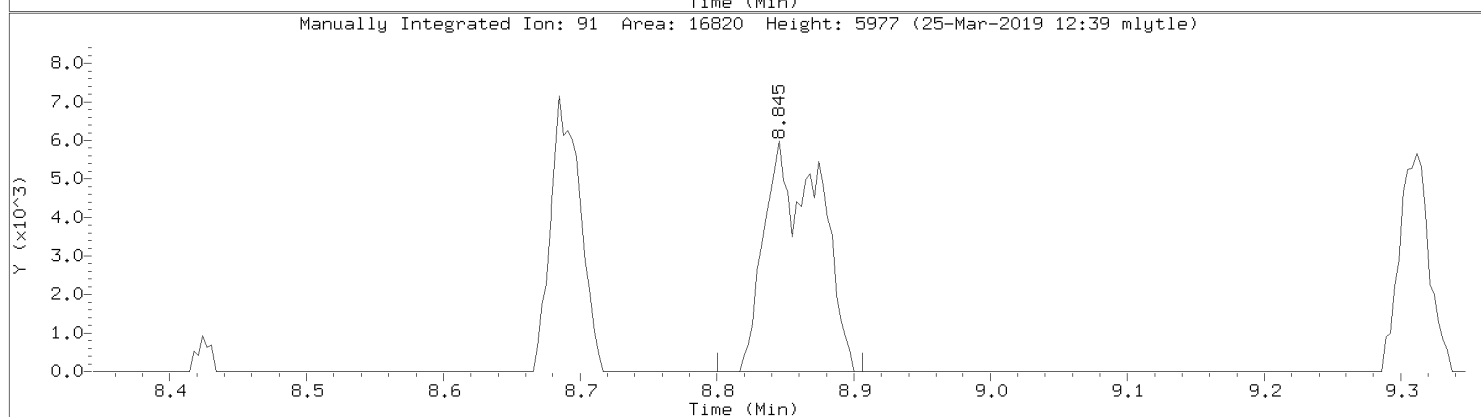
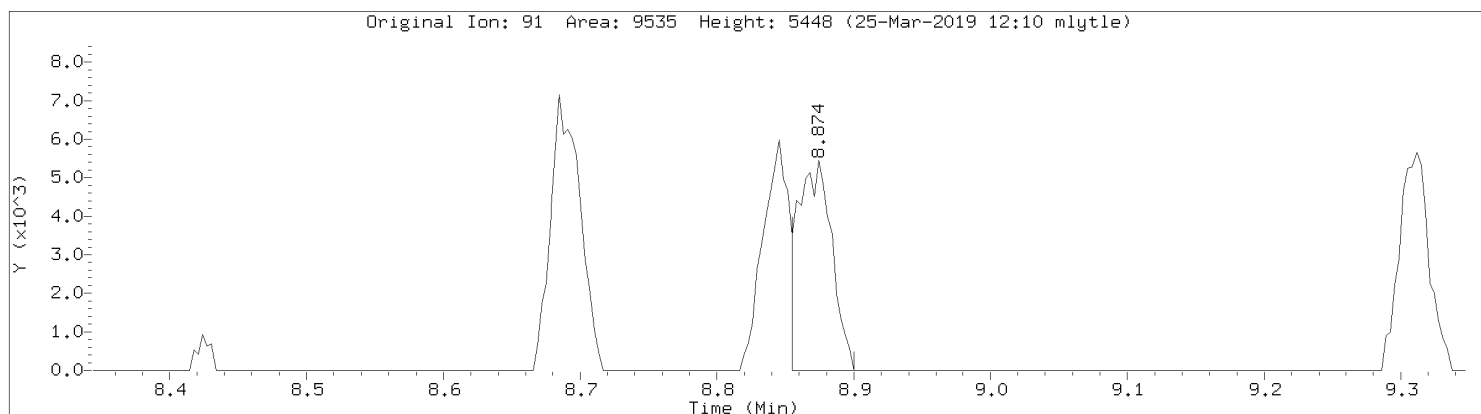


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Instrument: 10airH.i
Lab Sample ID: CAL1



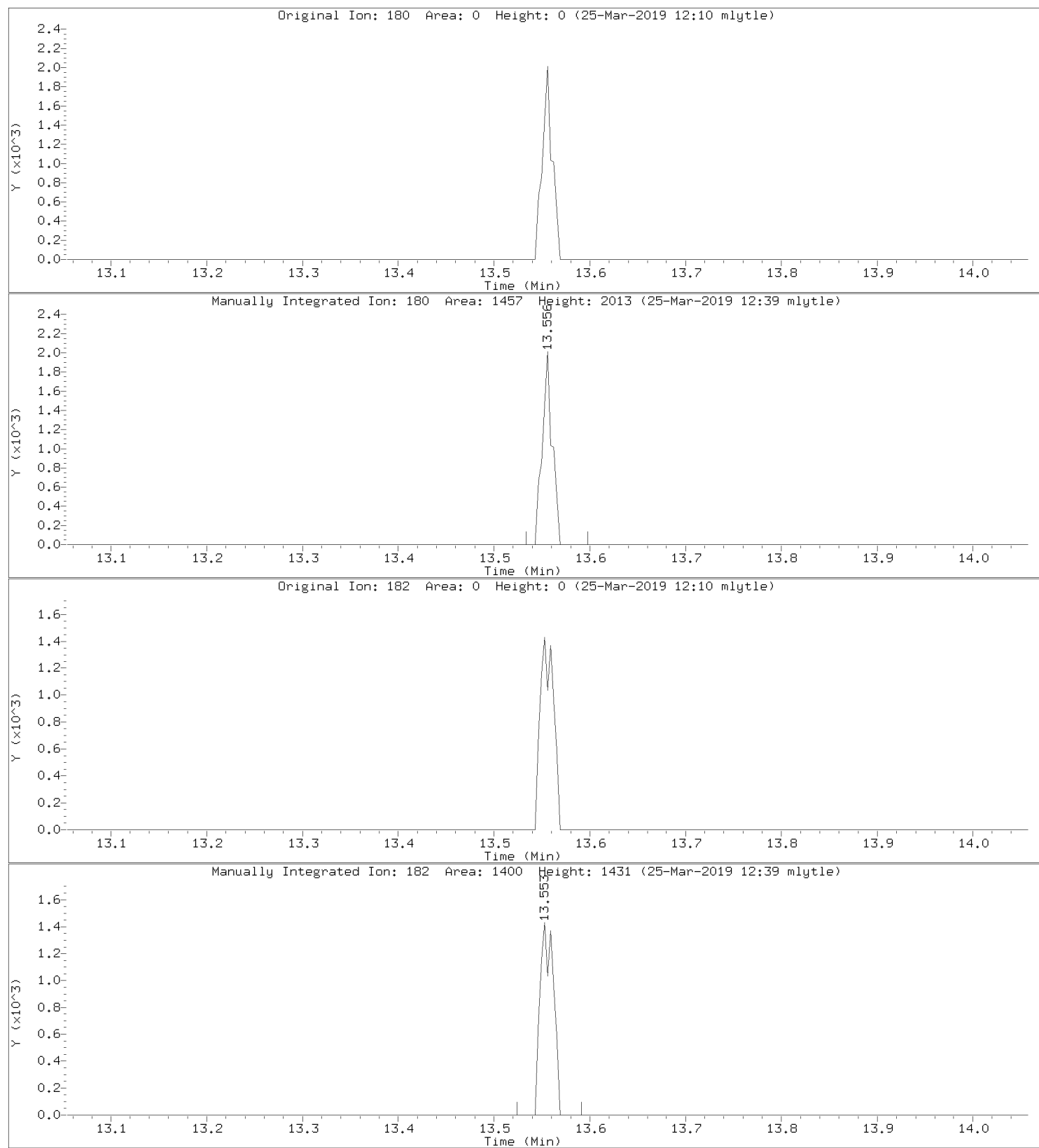
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Instrument: 10airH.i
Lab Sample ID: CAL1

Compound: m&p-Xylene
CAS Number: 7816-60-0

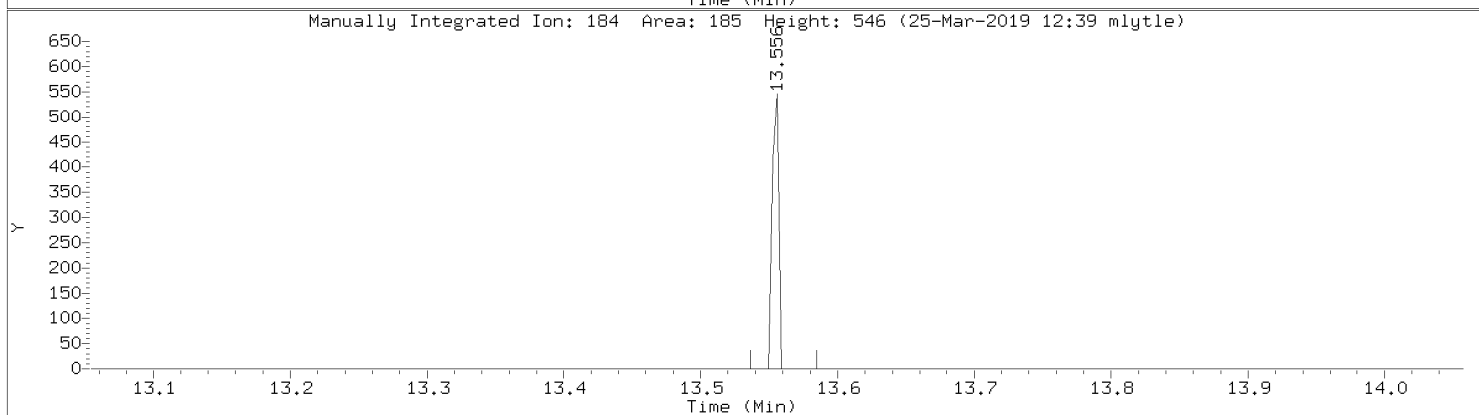
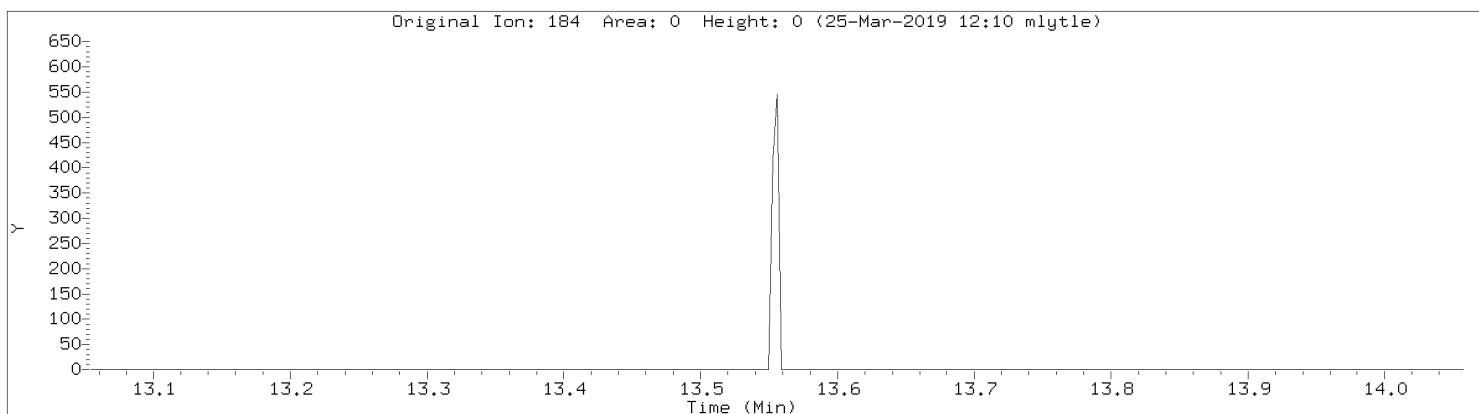


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Injection Date: 25-MAR-2019 10:53
Instrument: 10airH.i
Lab Sample ID: CAL1

Compound: 1,2,4-Trichlorobenzene
CAS Number: 95-63-6

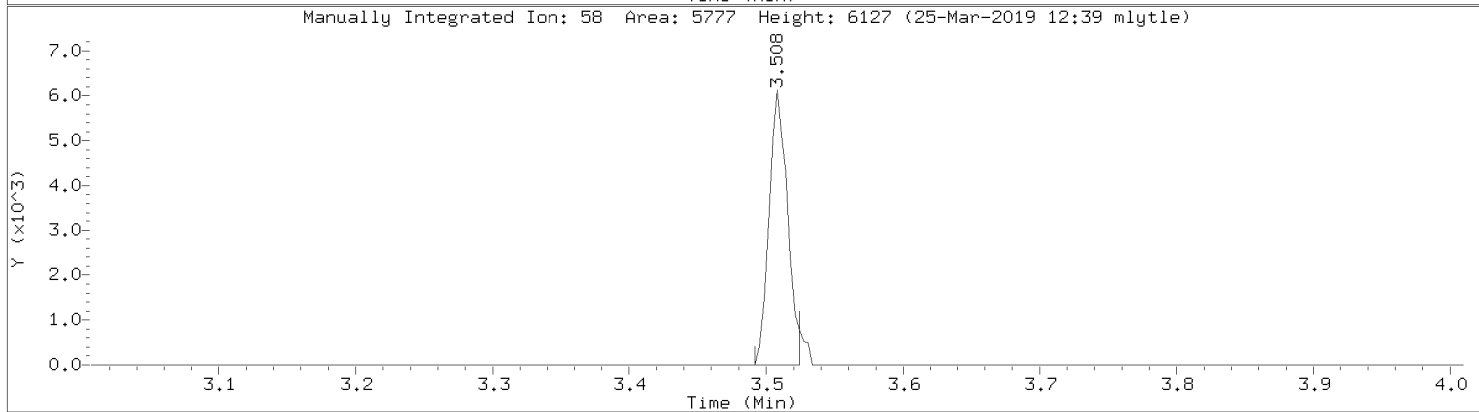
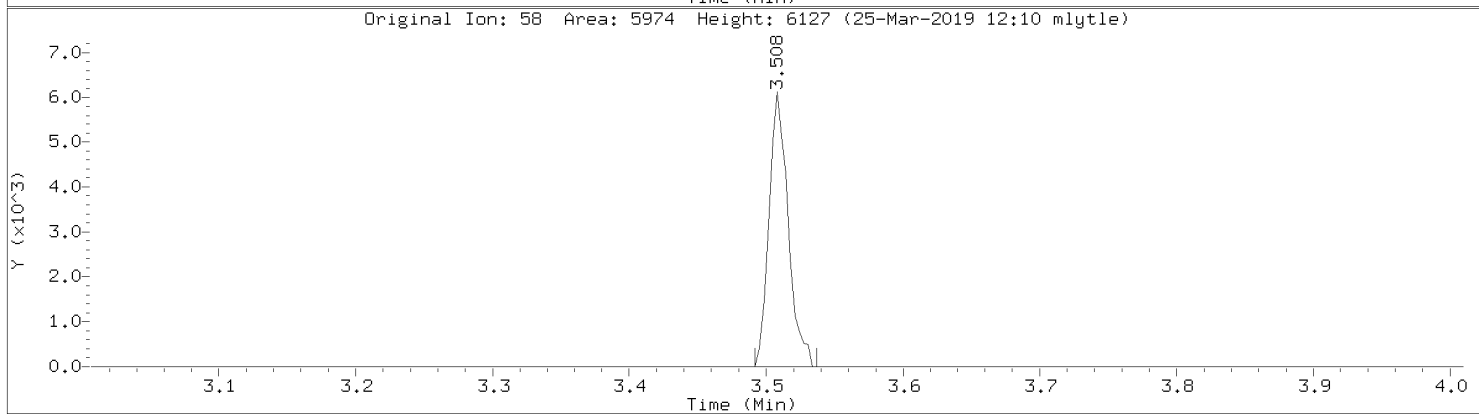
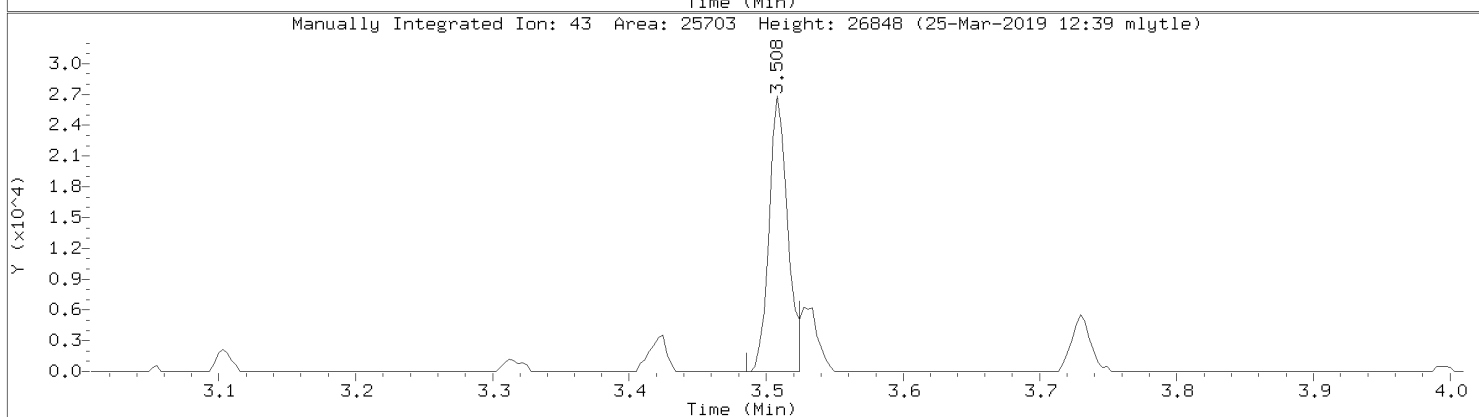
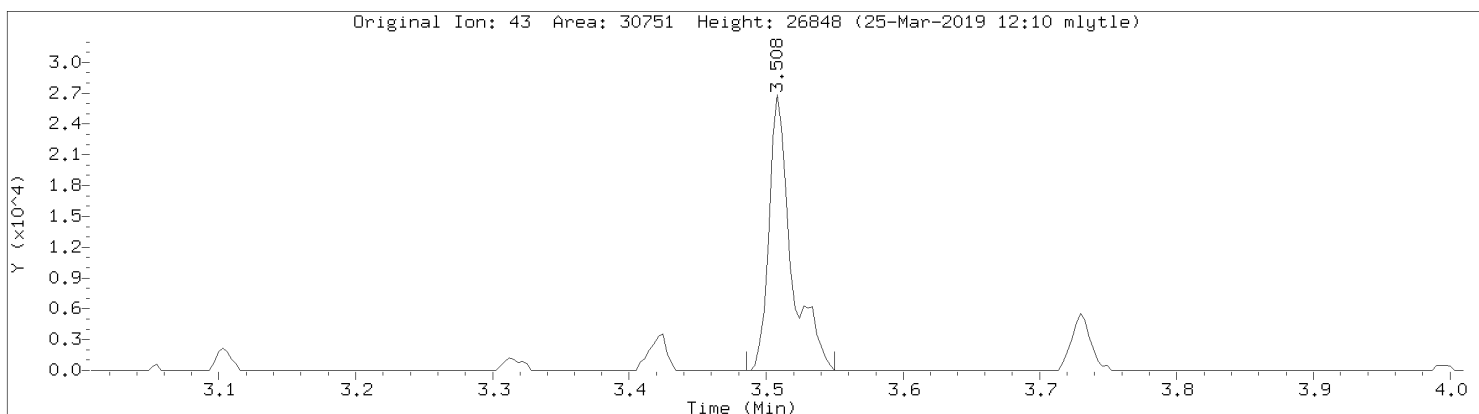


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Instrument: 10airH.i
Lab Sample ID: CAL1



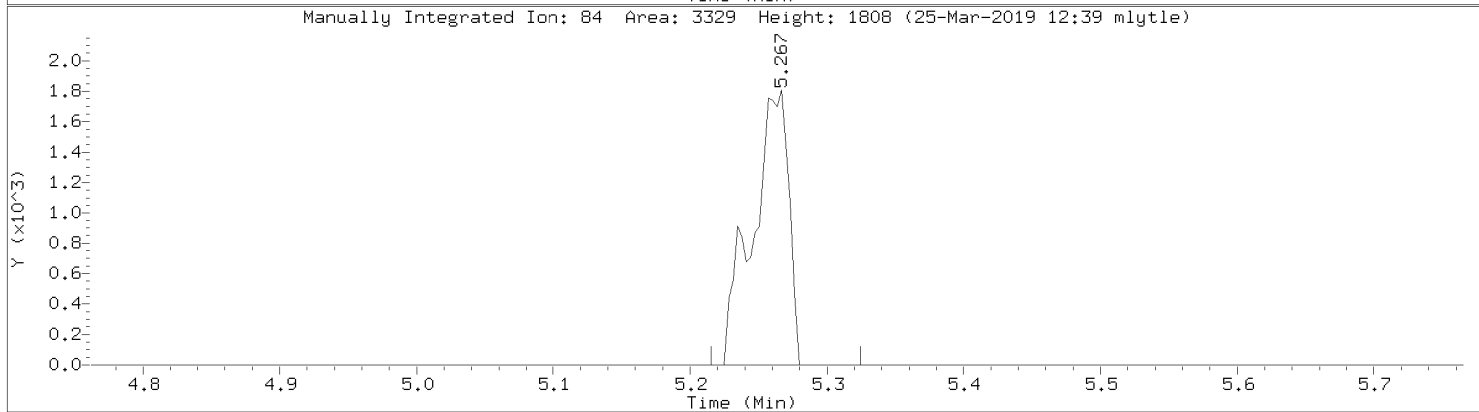
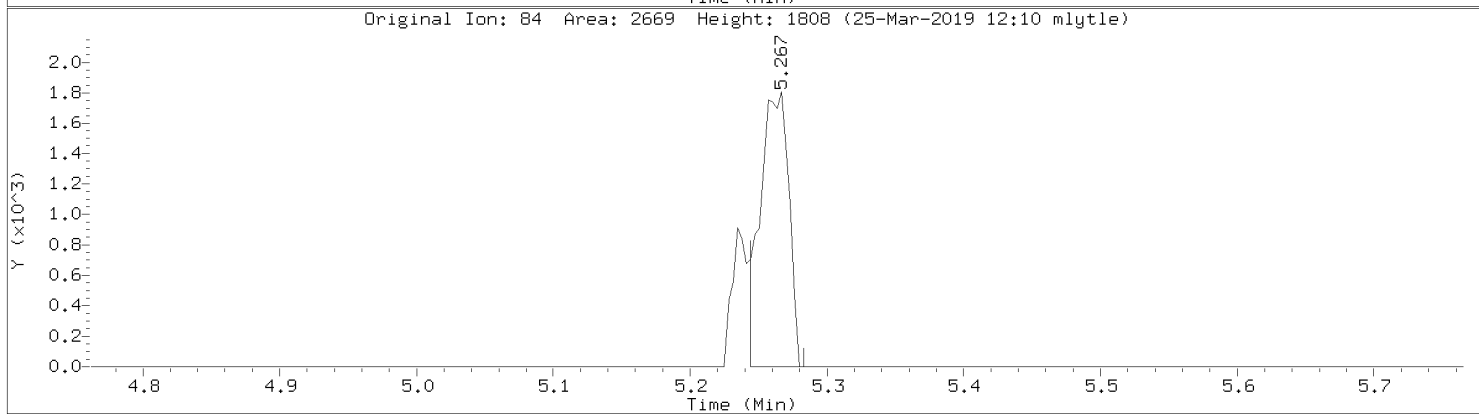
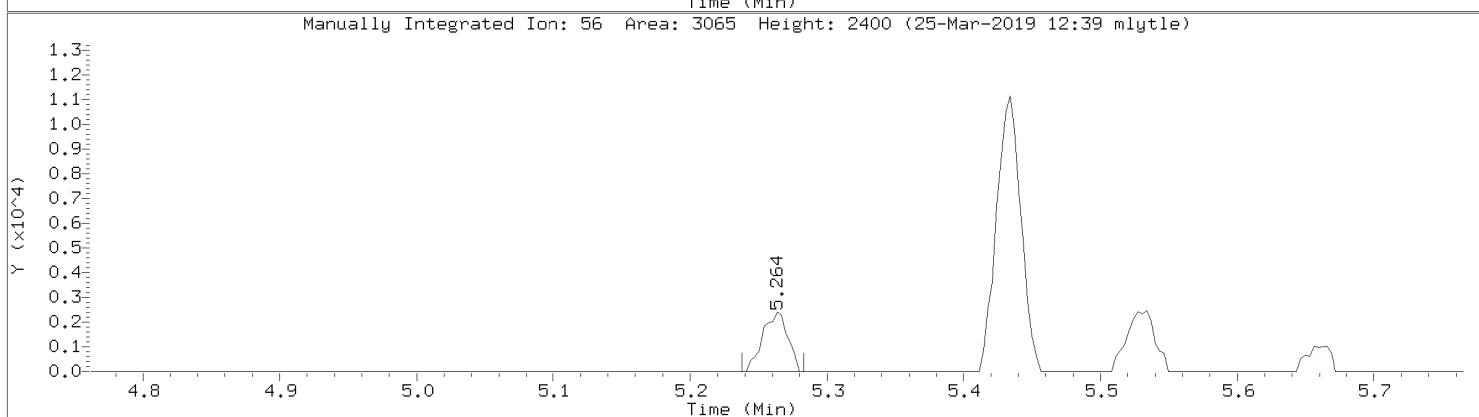
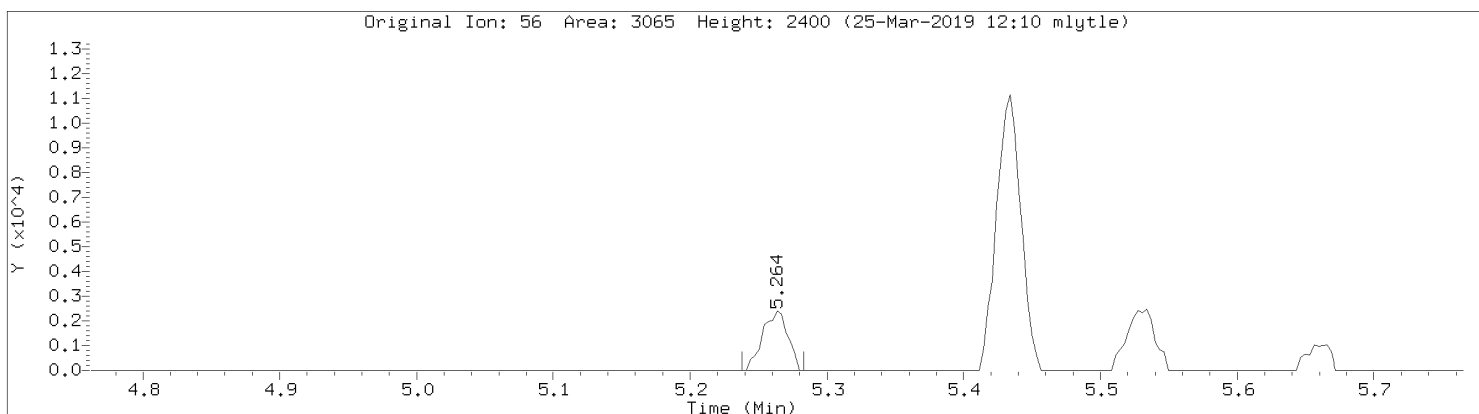
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Injection Date: 25-MAR-2019 10:53
Instrument: 10airH.i
Lab Sample ID: CAL1

Compound: Acetone
CAS Number: 67-64-1

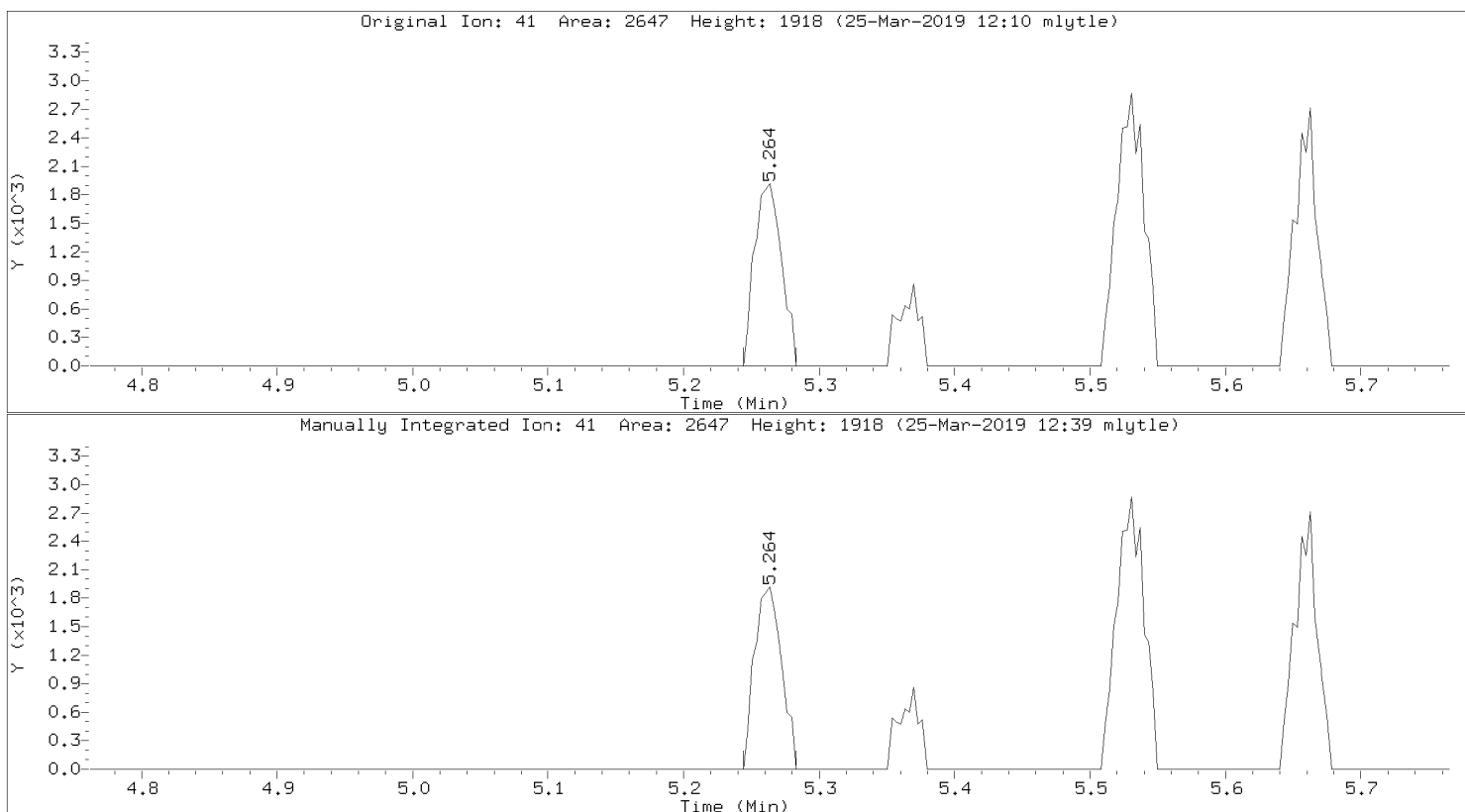


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Instrument: 10airH.i
Lab Sample ID: CAL1

Compound: Cyclohexane
CAS Number: 110-82-7

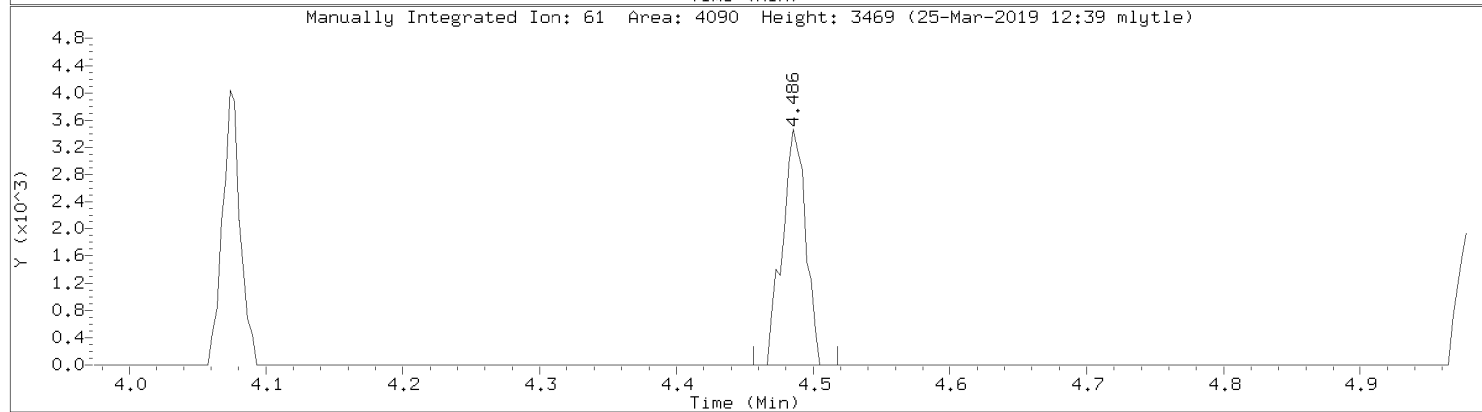
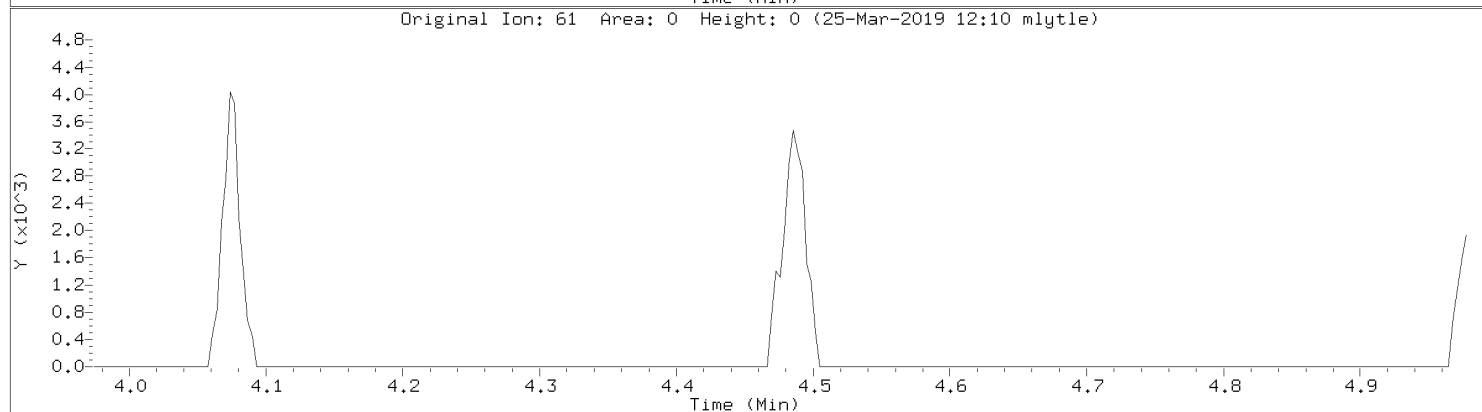
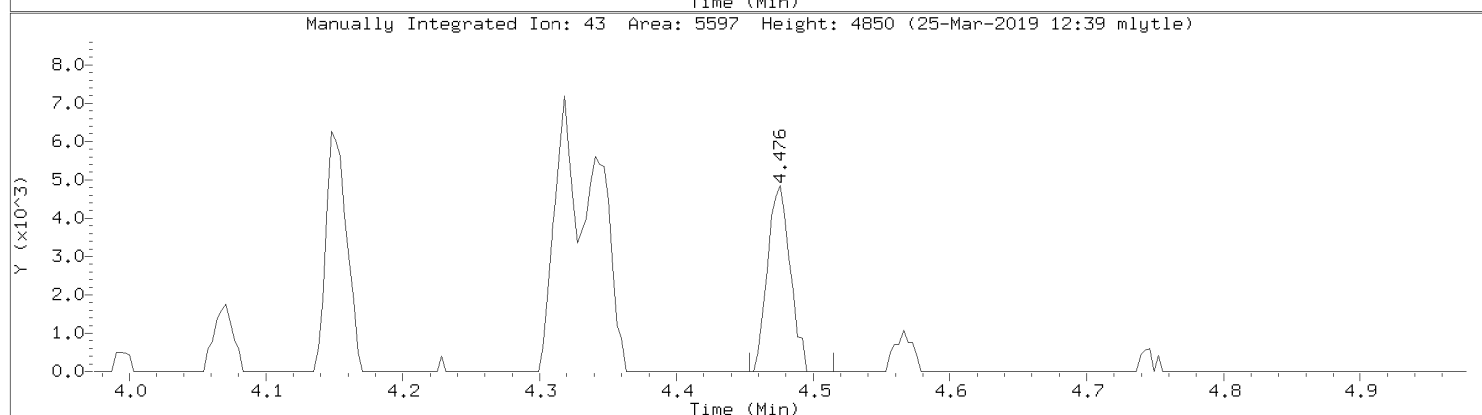
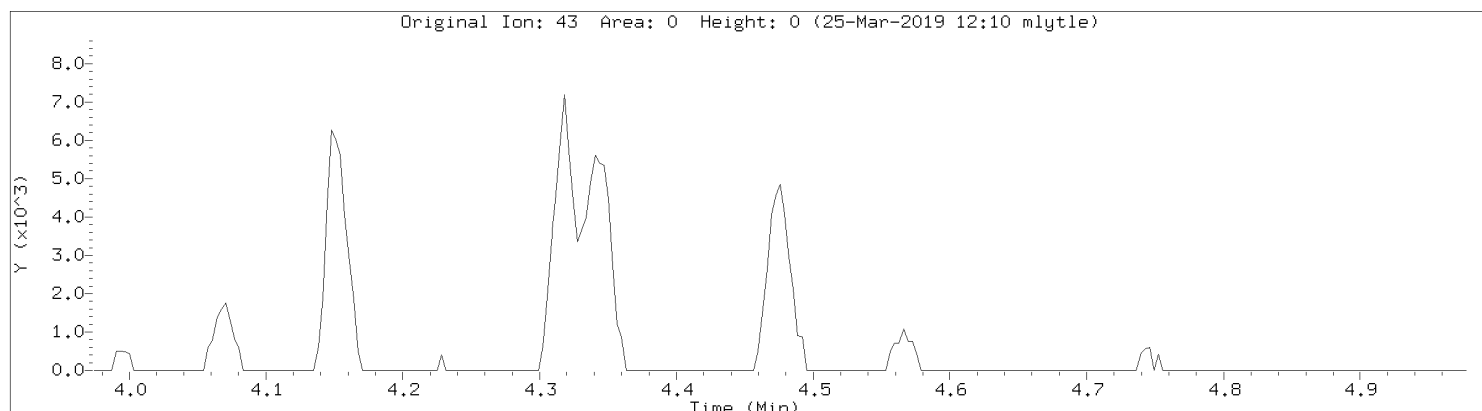


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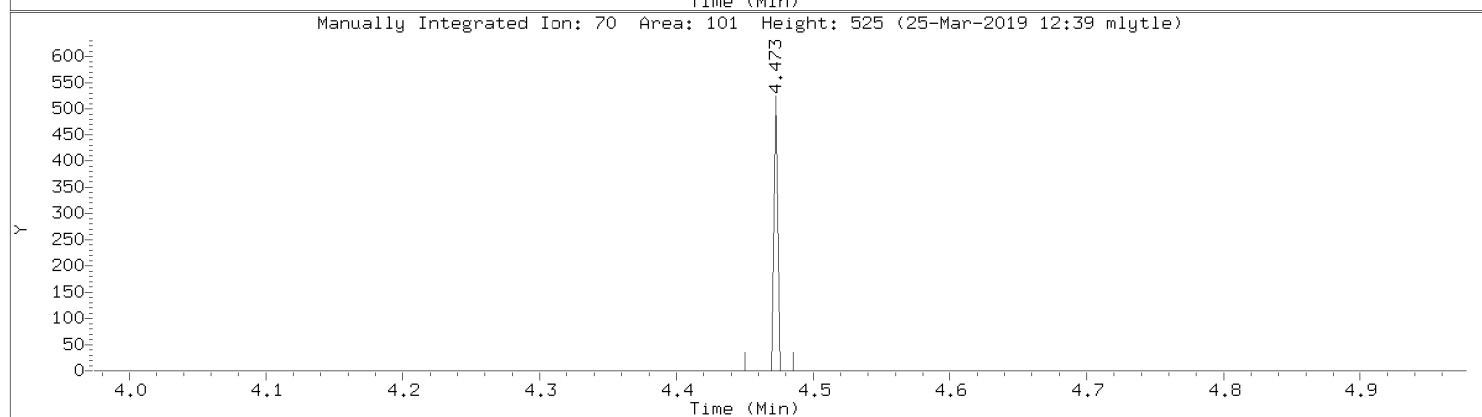
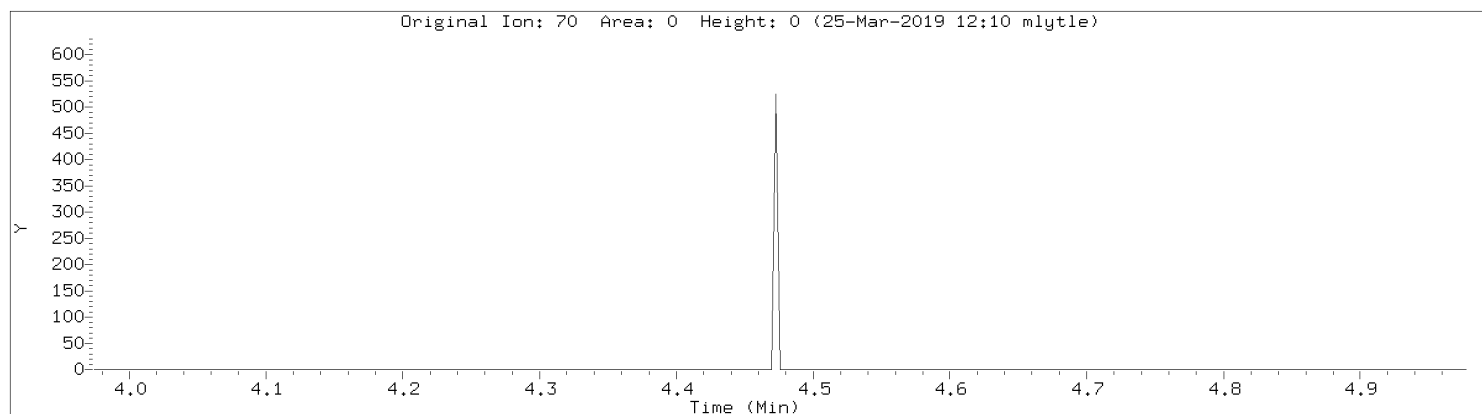


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Instrument: 10airH.i
Lab Sample ID: CAL1

Compound: Ethyl Acetate
CAS Number: 141-78-6

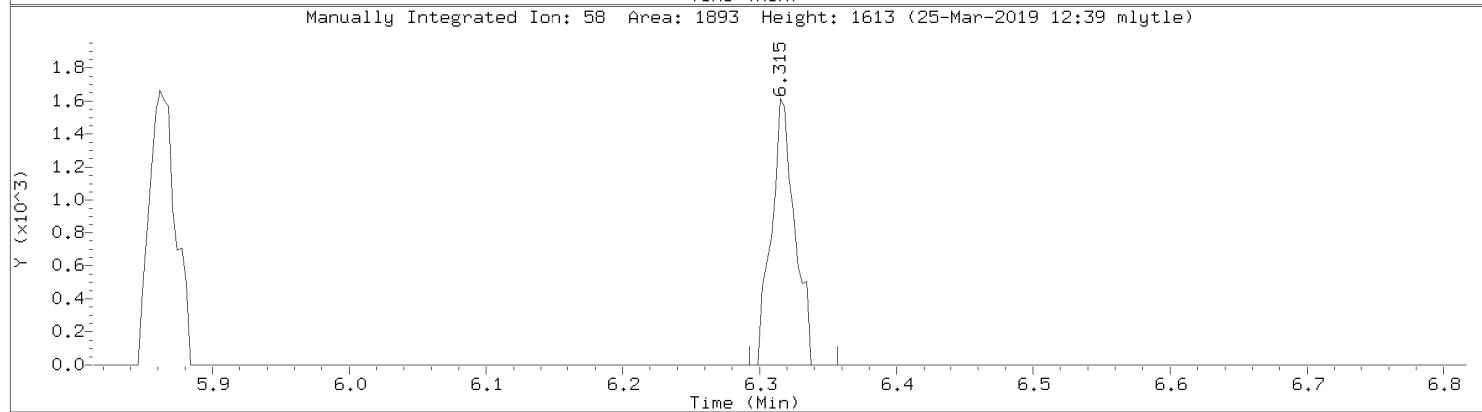
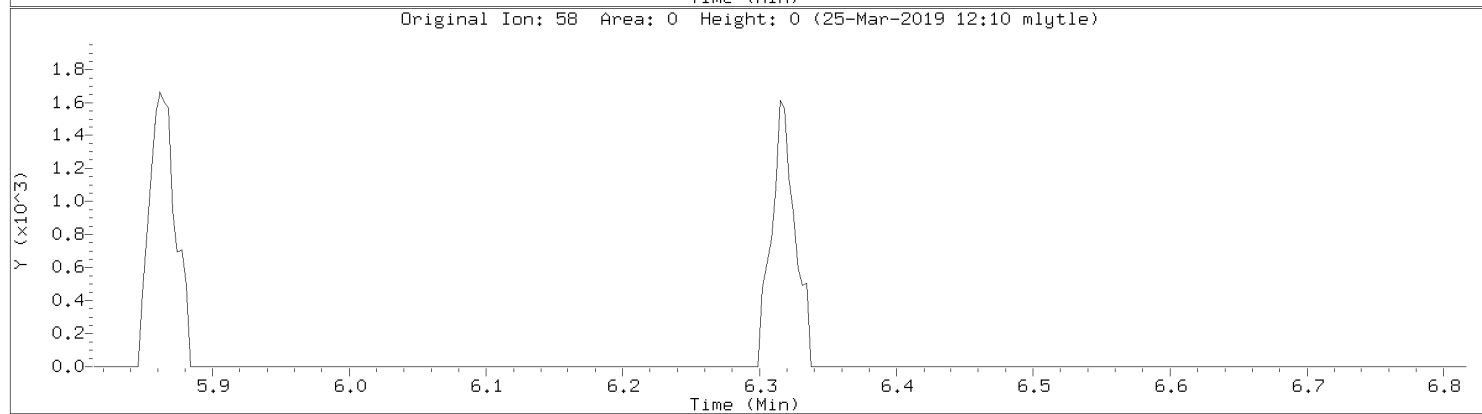
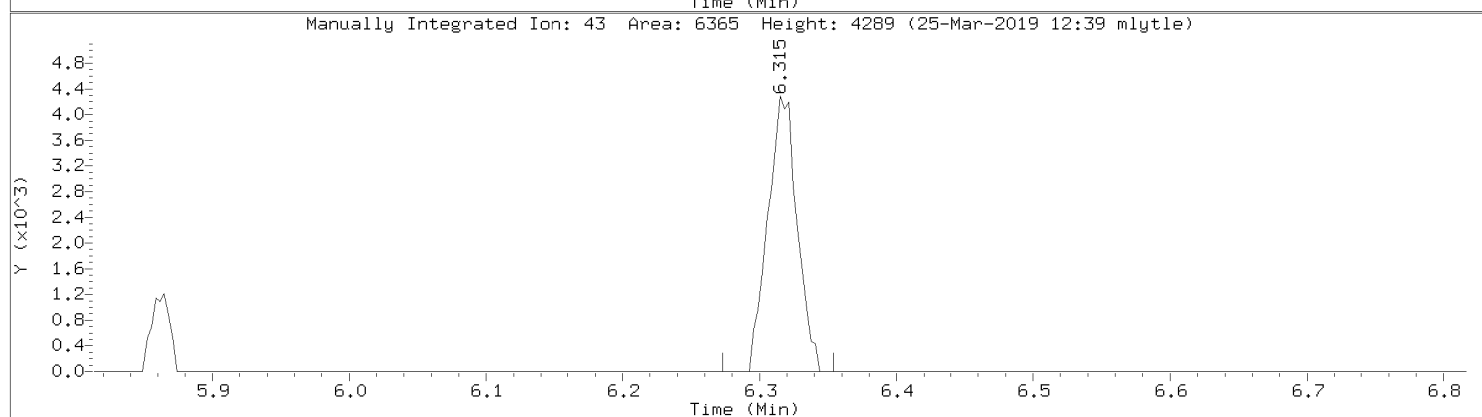
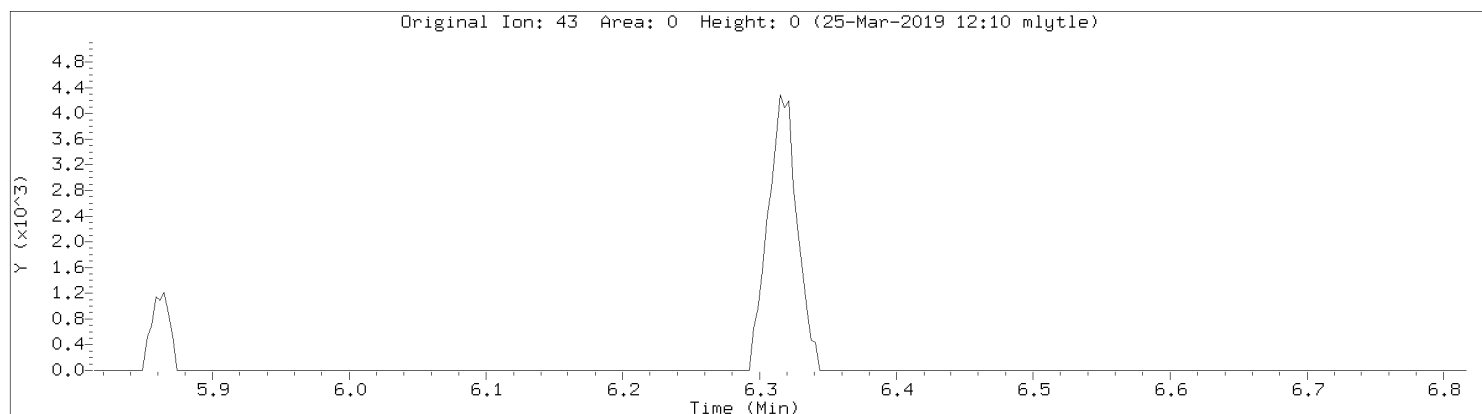


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Instrument: 10airH.i
Lab Sample ID: CAL1

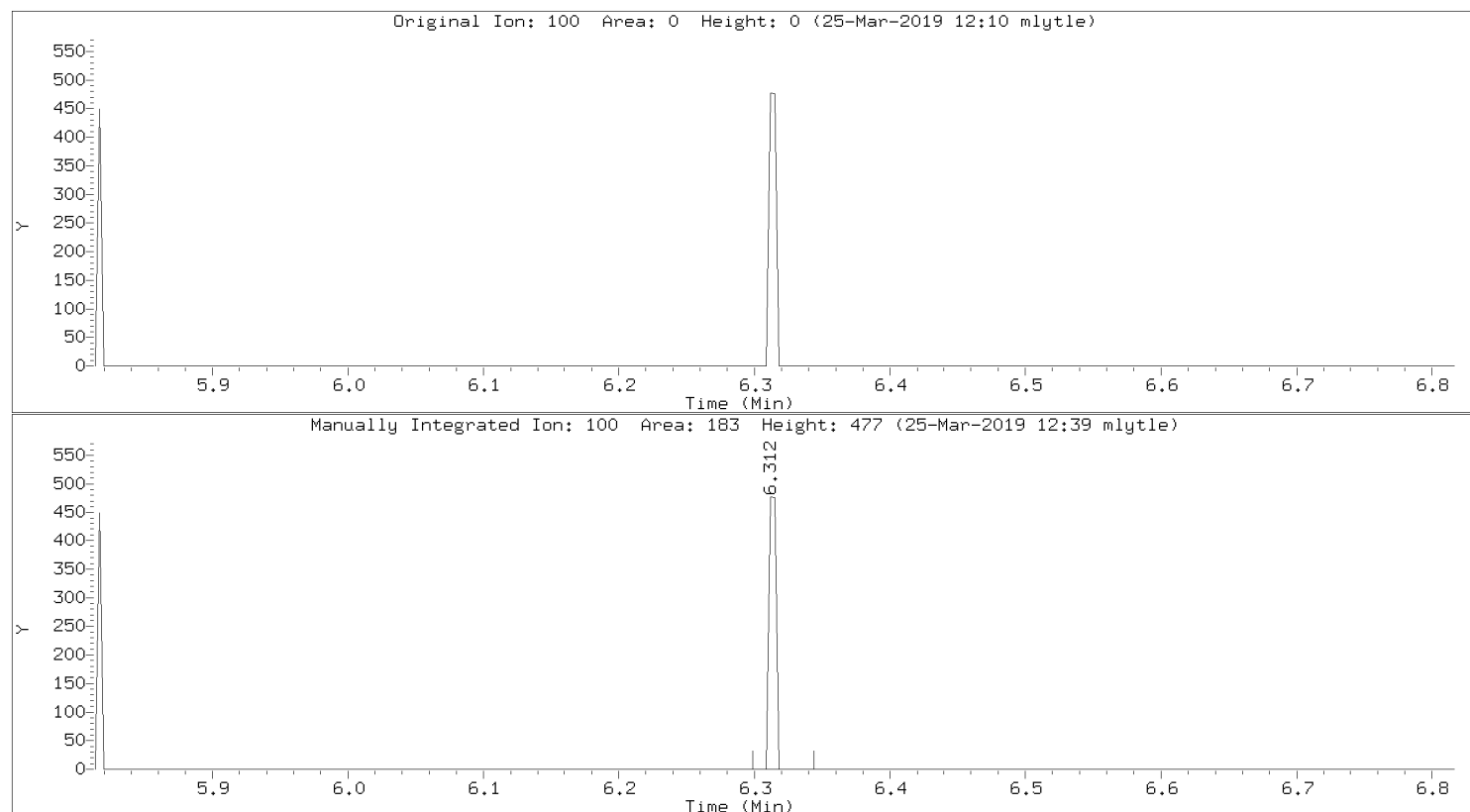


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Injection Date: 25-MAR-2019 10:53
Instrument: 10airH.i
Lab Sample ID: CAL1

Compound: Methyl Isobutyl Ketone
CAS Number: 108-10-1

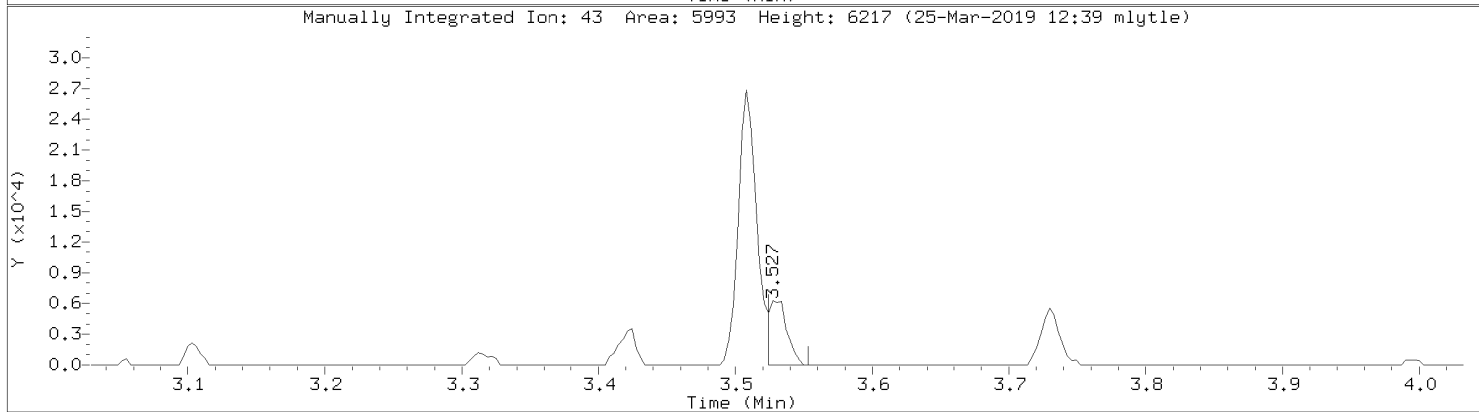
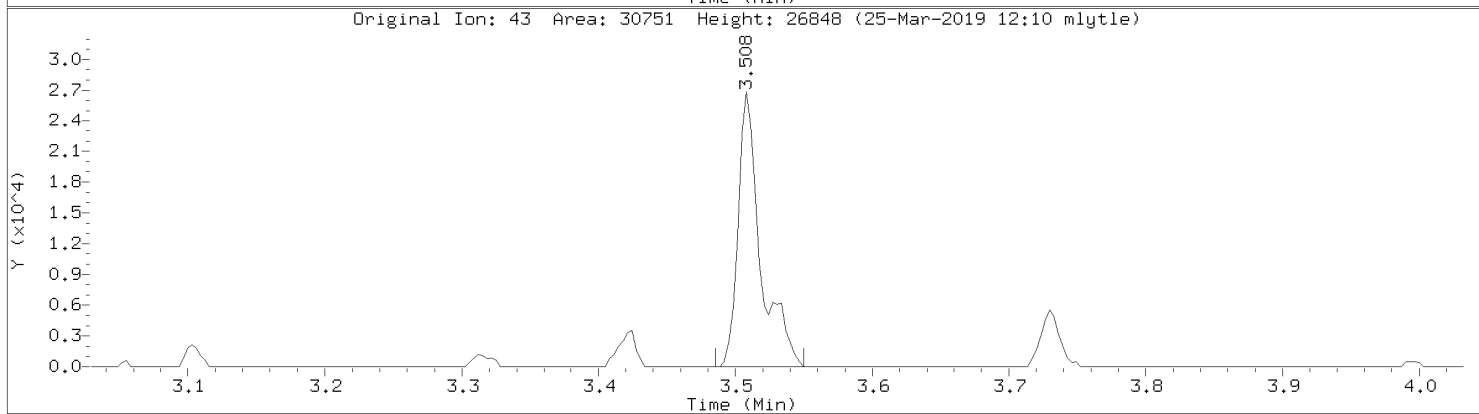
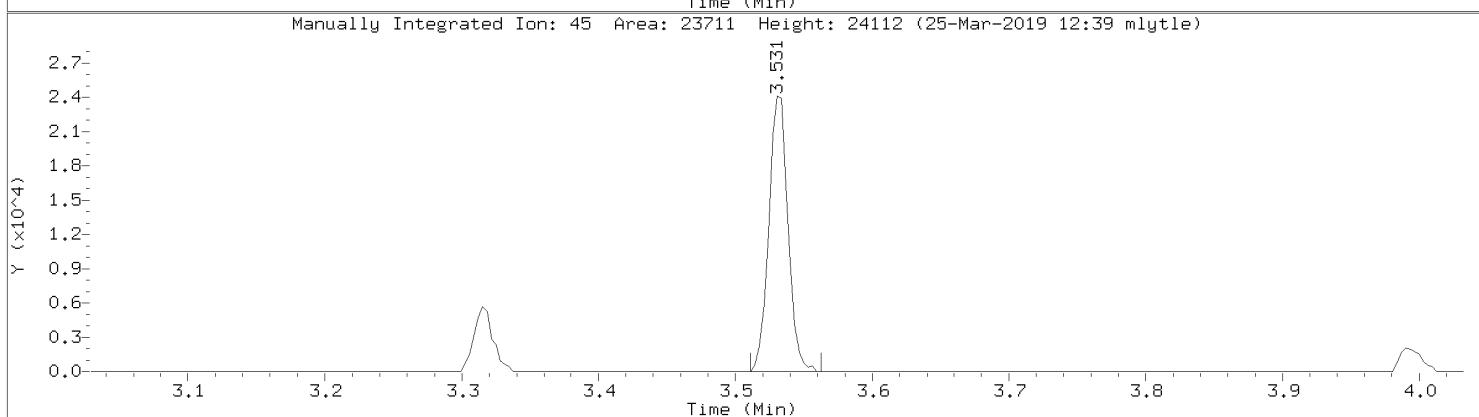
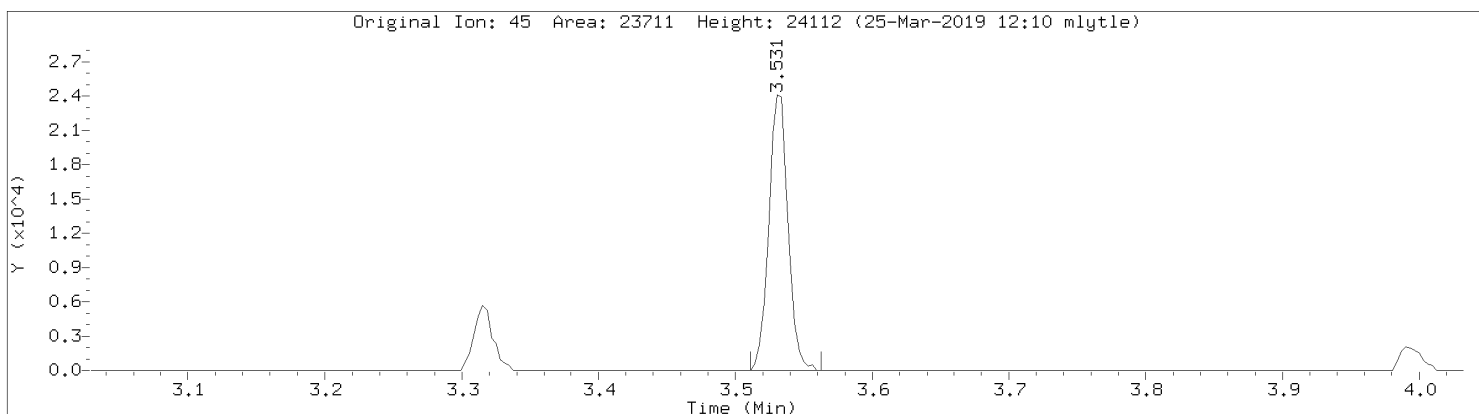


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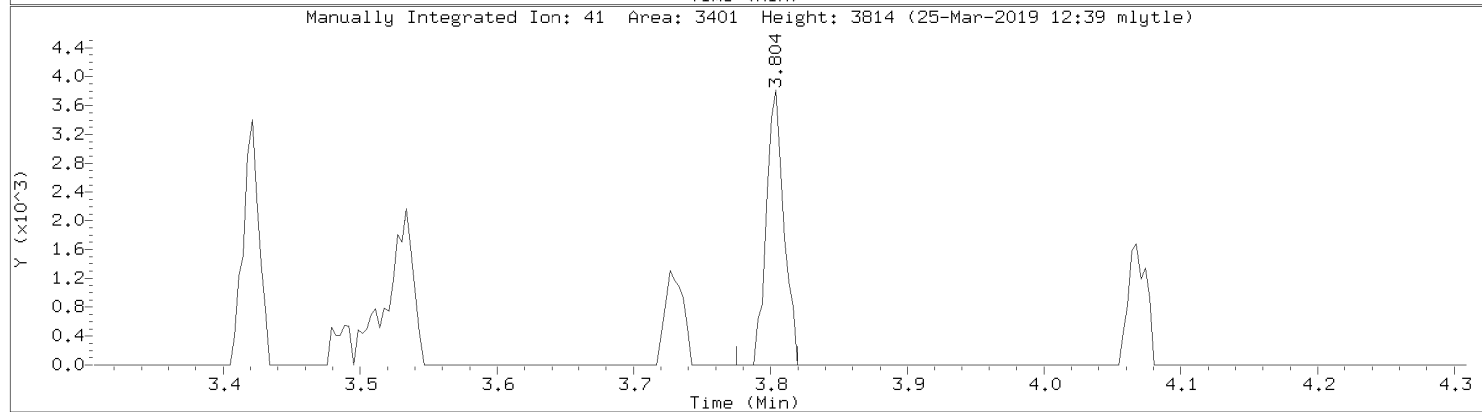
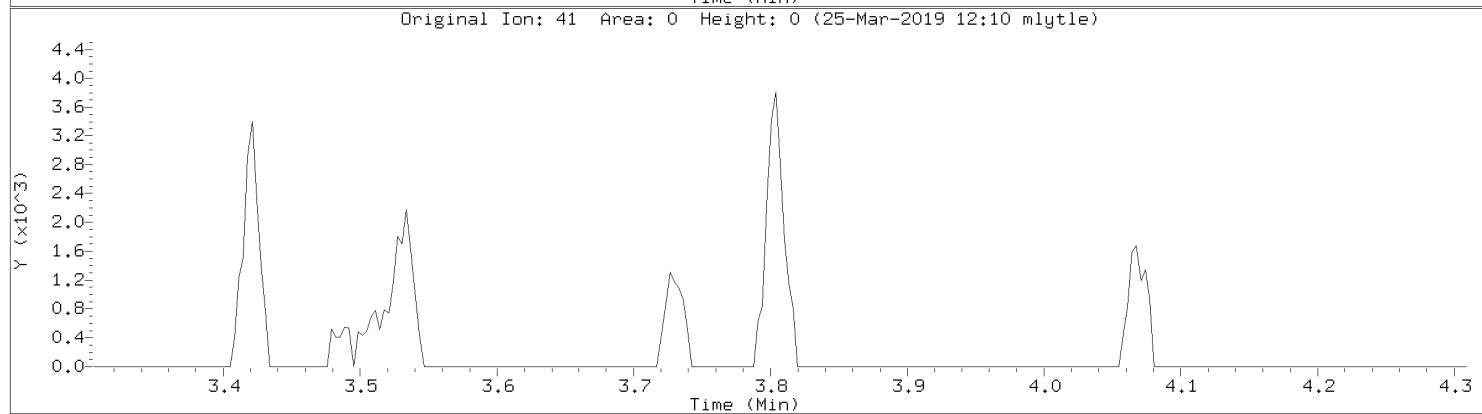
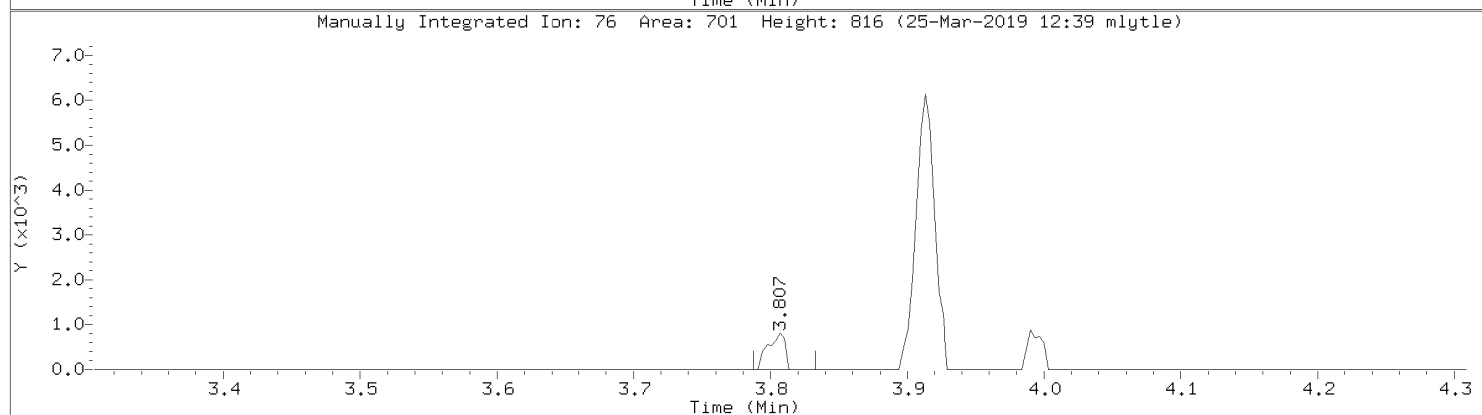
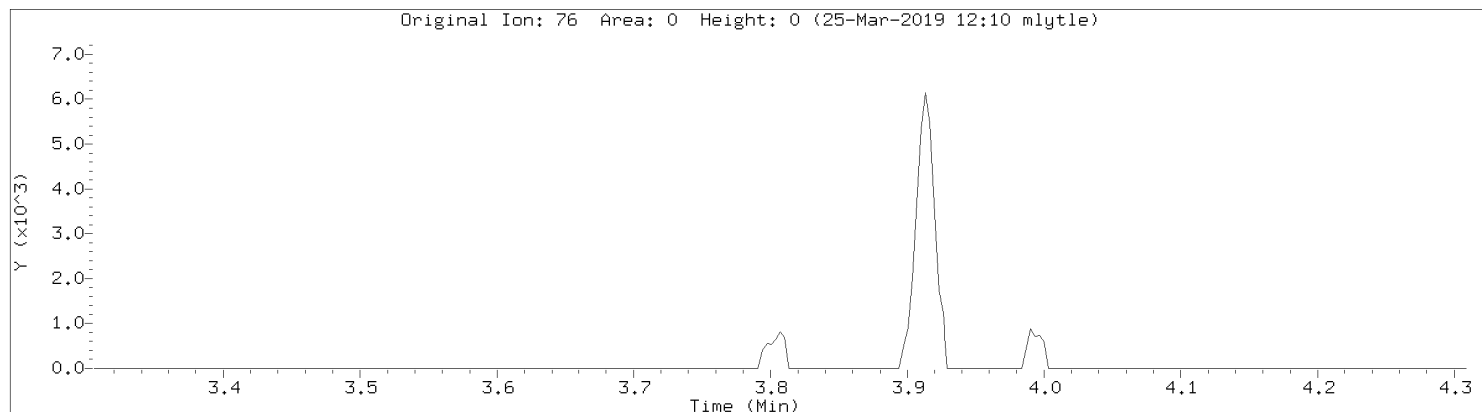
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Injection Date: 25-MAR-2019 10:53
Instrument: 10airH.i
Lab Sample ID: CAL1

Compound: Isopropyl Alcohol
CAS Number: 67-63-0

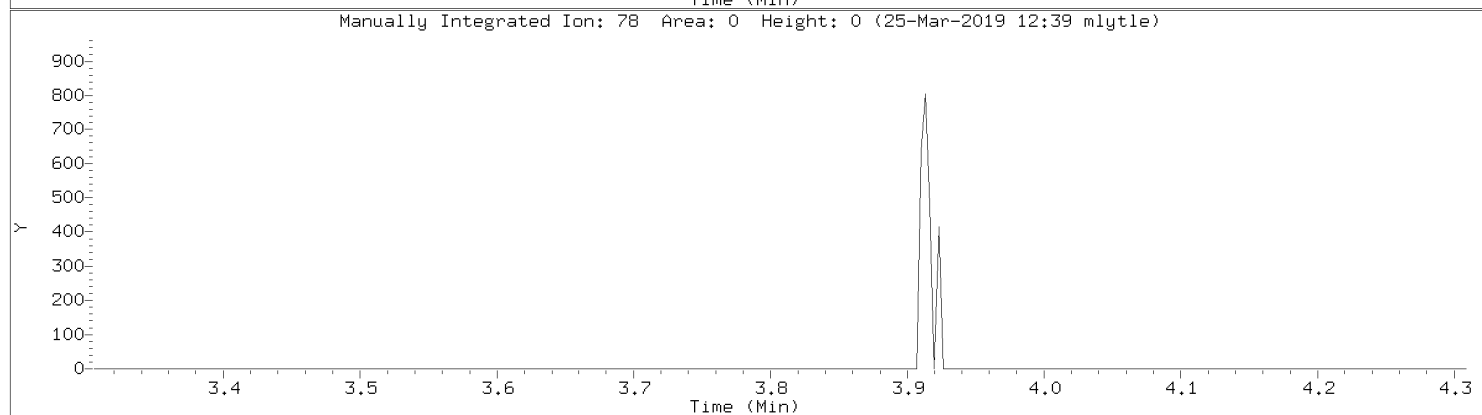
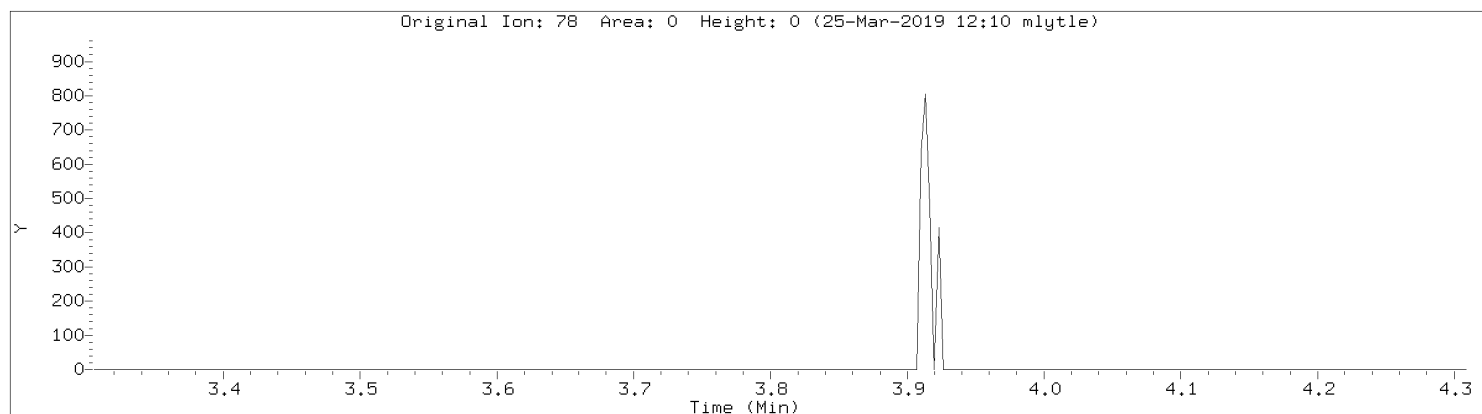


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Injection Date: 25-MAR-2019 10:53
Instrument: 10airH.i
Lab Sample ID: CAL1

Compound: Allyl Chloride
CAS Number: 107-05-1

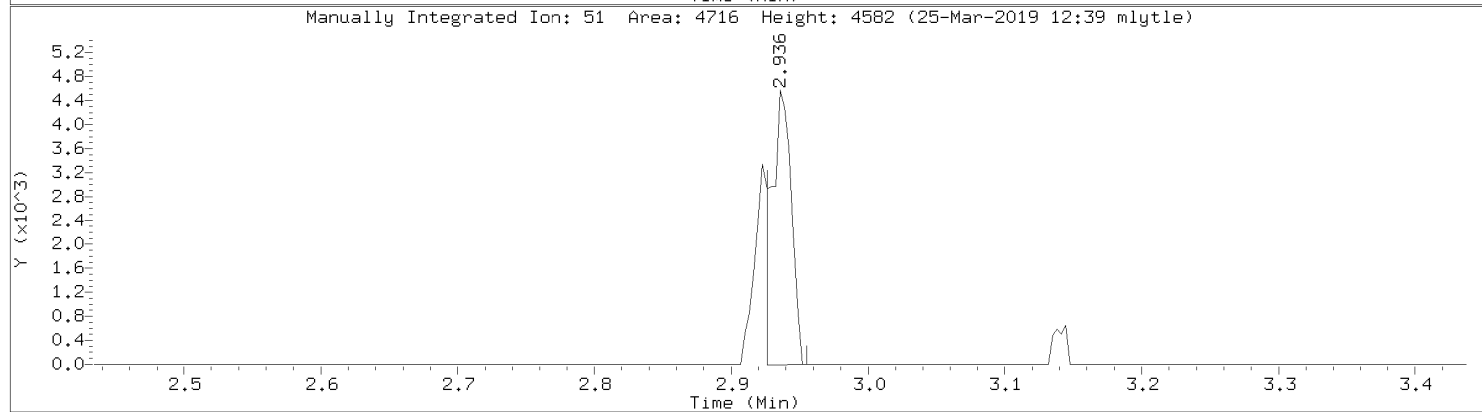
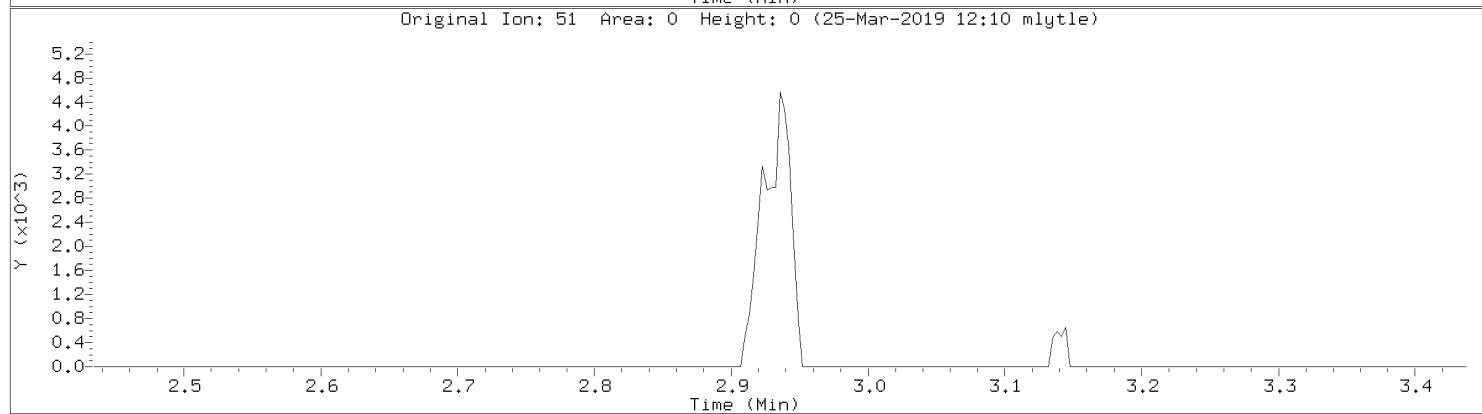
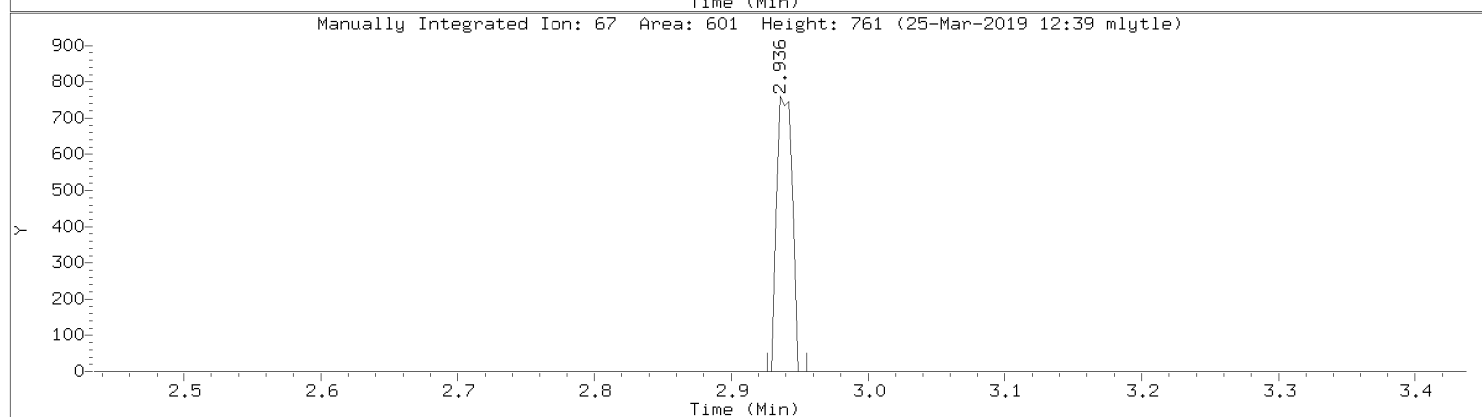
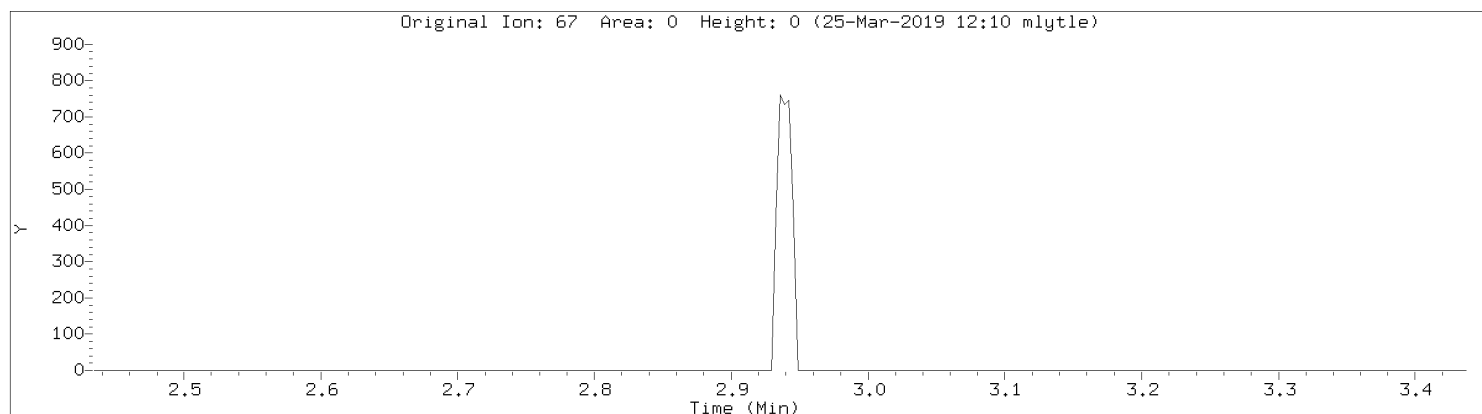


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Instrument: 10airH.i
Lab Sample ID: CAL1

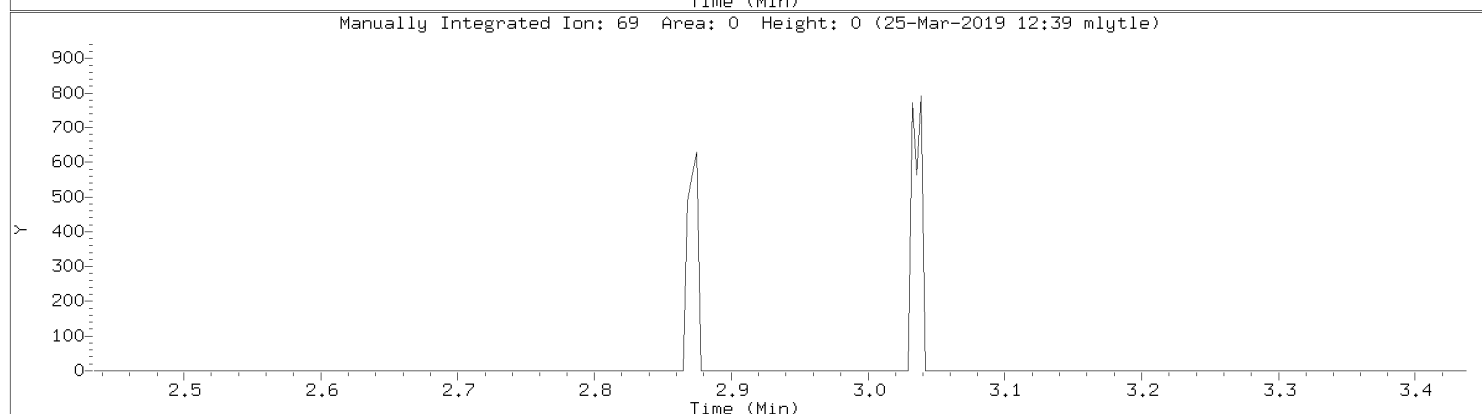
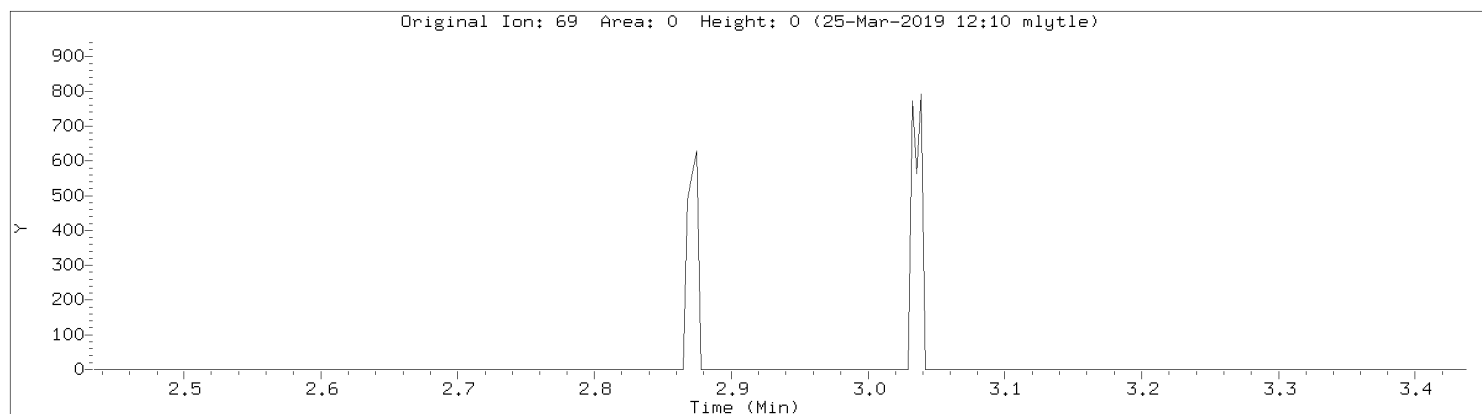


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Injection Date: 25-MAR-2019 10:53
Instrument: 10airH.i
Lab Sample ID: CAL1

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

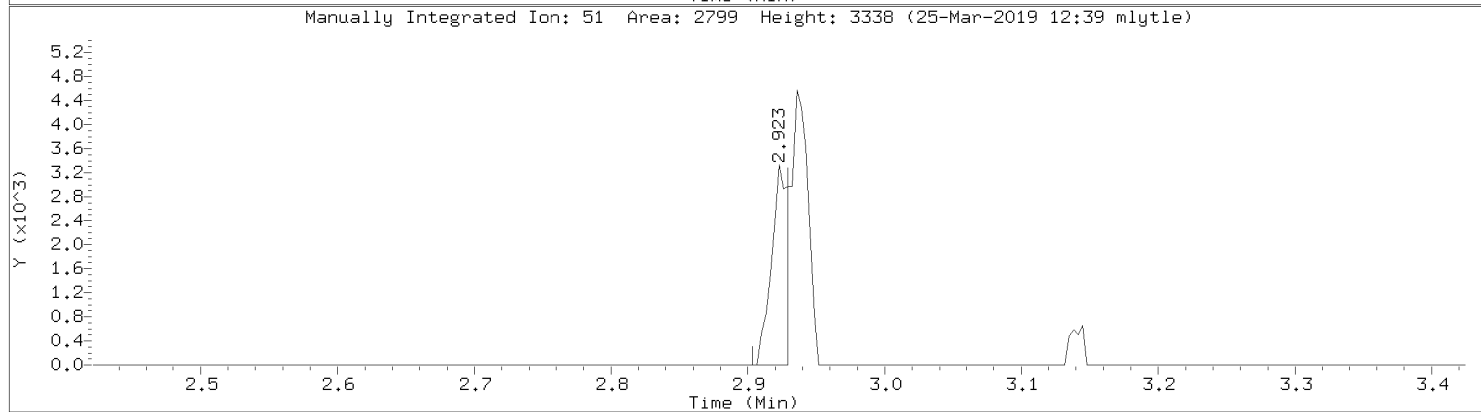
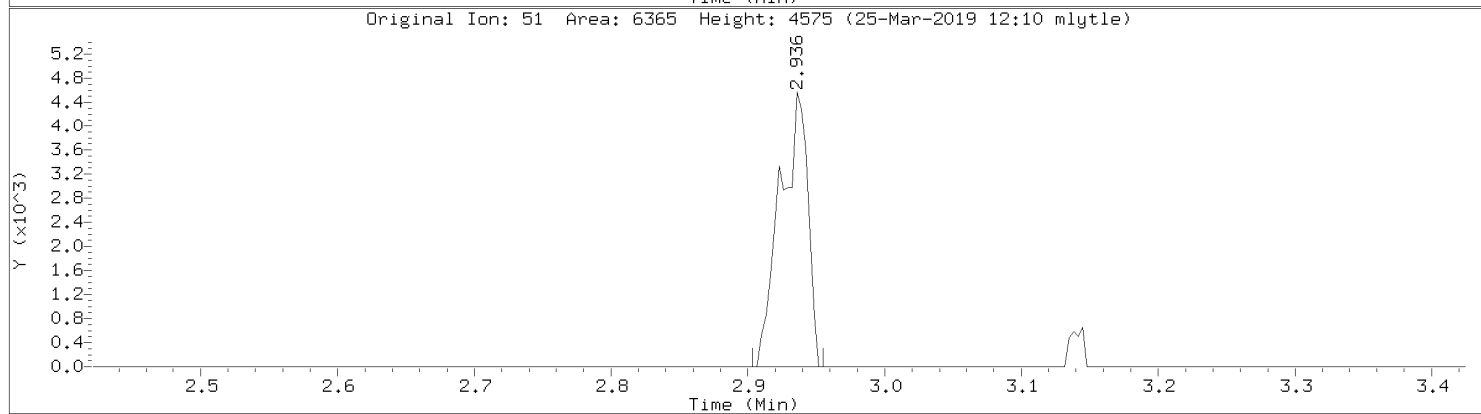
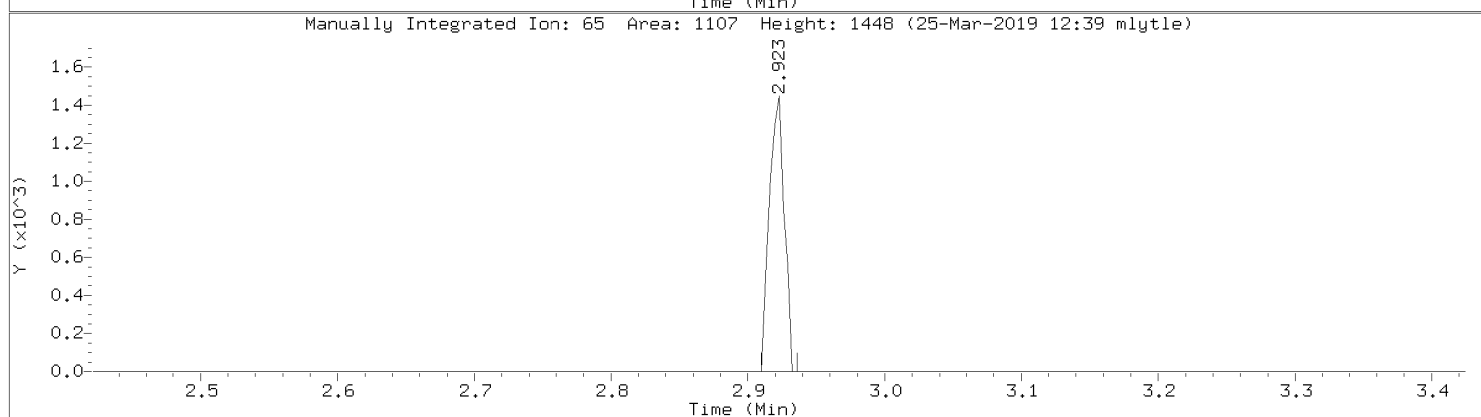
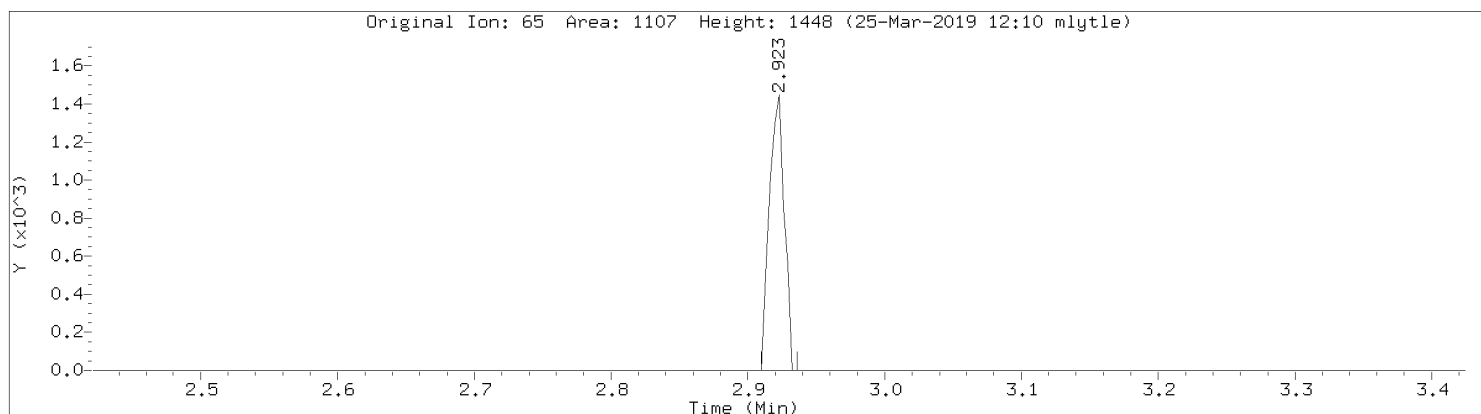


Data File: \\192.168.10.12\chem\10airH.i\032519.b\08412.D
Injection Date: 25-MAR-2019 10:53
Instrument: 10airH.i
Lab Sample ID: CAL1

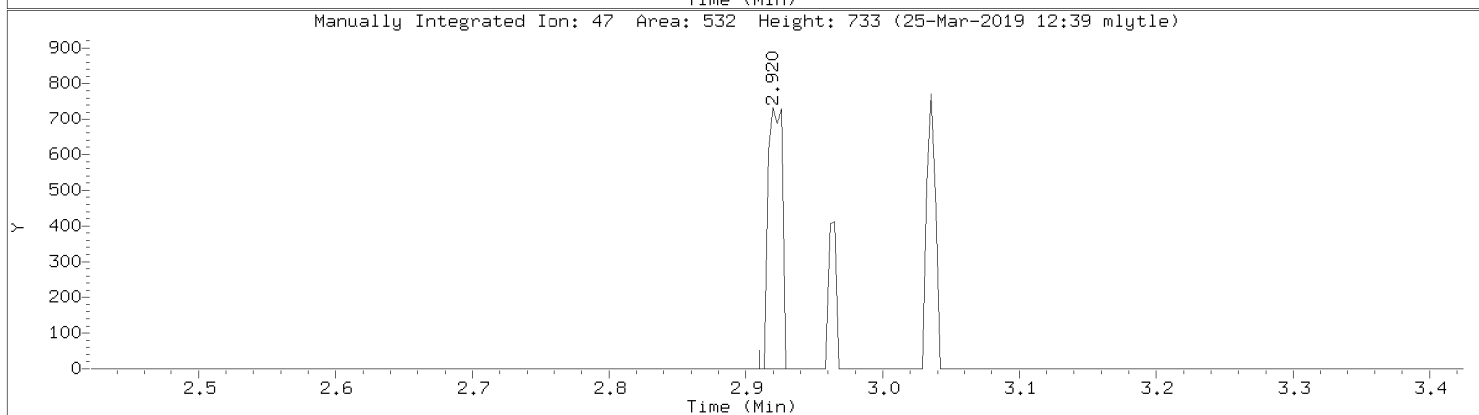
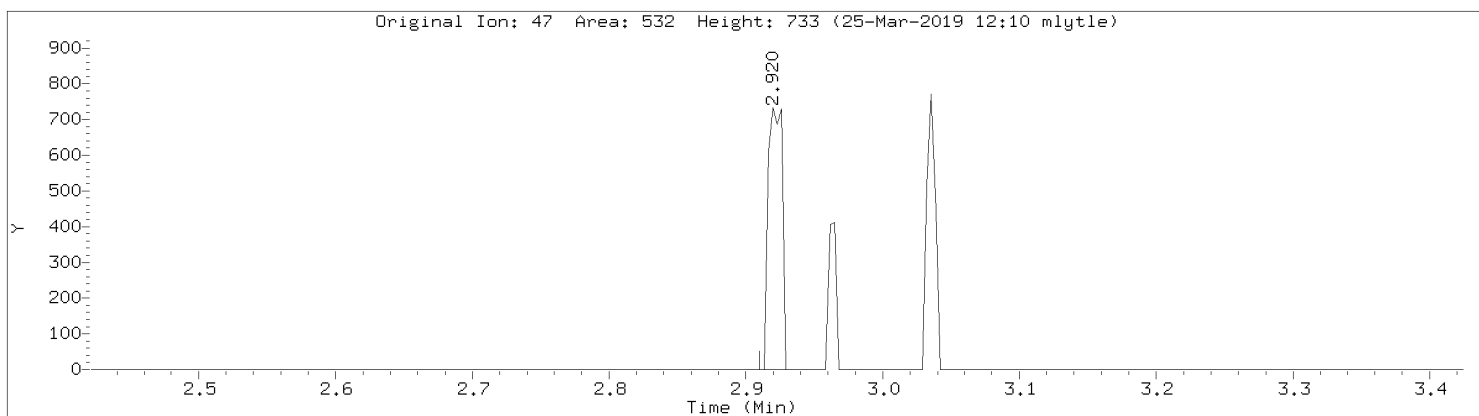


Data File: \\192.168.10.12\chem\10airH.i\032519.b\08412.D
Injection Date: 25-MAR-2019 10:53
Instrument: 10airH.i
Lab Sample ID: CAL1

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6



Data File: \\192.168.10.12\chem\10airH.i\032519.b\08412.D
Injection Date: 25-MAR-2019 10:53
Instrument: 10airH.i
Lab Sample ID: CAL1



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airH.i\032519.b\08413.D
 Lab Smp Id: ICV
 Inj Date : 25-MAR-2019 11:18
 Operator : MJL Inst ID: 10airH.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
 Meth Date : 25-Mar-2019 12:39 10airH.i Quant Type: ISTD
 Cal Date : 25-MAR-2019 10:53 Cal File: 08412.D
 Als bottle: 13 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ppbv)	FINAL (ppbv)
1 1,1-Difluoroethane	65	2.925	2.922 (0.538)		98917	10.5701	10.6 (QM)
2 Chlorodifluoromethane	67	2.938	2.935 (0.540)		53242	10.1918	10.2 (QM)
3 Propylene	41	2.945	2.945 (0.542)		133789	9.58074	9.58
4 Dichlorodifluoromethane	85	2.964	2.964 (0.545)		479599	9.68366	9.68
5 Dichlorotetrafluoroethane	85	3.038	3.035 (0.559)		454903	9.89818	9.90
6 Chloromethane	50	3.041	3.038 (0.559)		213333	9.79374	9.79
7 Vinyl chloride	62	3.109	3.109 (0.572)		169755	10.0826	10.1
8 1,3-Butadiene	54	3.144	3.138 (0.578)		123951	9.88192	9.88 (Q)
9 Bromomethane	94	3.260	3.257 (0.600)		157886	10.1107	10.1
10 Chloroethane	64	3.305	3.299 (0.608)		82175	10.3775	10.4
11 Ethanol	45	3.311	3.315 (0.609)		82615	10.1783	10.2
12 Vinyl Bromide	106	3.411	3.408 (0.627)		150710	10.5291	10.5
13 Isopentane	43	3.424	3.424 (0.630)		214211	9.79741	9.80
14 Freon 123	83	3.459	3.456 (0.636)		394616	10.4328	10.4
15 Trichlorofluoromethane	101	3.485	3.482 (0.641)		492573	10.2492	10.2
16 Acrolein	56	3.485	3.485 (0.641)		72433	10.5056	10.5
17 Acetone	43	3.507	3.508 (0.645)		342620	9.43549	9.44 (M)
18 Isopropyl Alcohol	45	3.527	3.530 (0.649)		401785	11.2119	11.2 (M)
19 1,1-Dichloroethene	61	3.700	3.694 (0.681)		317750	10.0935	10.1
20 Acrylonitrile	53	3.704	3.700 (0.681)		141860	10.5270	10.5
21 Tert Butyl Alcohol (TBA)	59	3.723	3.729 (0.685)		435879	10.1247	10.1
22 Methyl Acetate	43	3.729	3.729 (0.686)		447907	9.99141	9.99
23 Freon 113	101	3.733	3.733 (0.687)		352274	10.2538	10.3

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)
24 Allyl Chloride	76		3.810	3.807	(0.701)	77645	10.6711	10.7 (Q)	
25 Methylene chloride	49		3.810	3.807	(0.701)	256671	10.3305	10.3	
26 Carbon Disulfide	76		3.916	3.913	(0.720)	500613	10.3654	10.4	
27 Methyl Tert Butyl Ether	73		4.064	4.067	(0.747)	492871	10.1318	10.1	
28 trans-1,2-dichloroethene	96		4.080	4.070	(0.750)	166621	10.3416	10.3	
29 Vinyl Acetate	43		4.154	4.147	(0.764)	600892	10.3616	10.4	
30 1,1-Dichloroethane	63		4.202	4.199	(0.773)	342821	10.1276	10.1	
31 Methyl Ethyl Ketone	72		4.314	4.318	(0.794)	86972	8.62991	8.63 (M)	
32 Di-isopropyl Ether	45		4.340	4.344	(0.798)	695974	9.98631	9.99	
33 n-Hexane	57		4.350	4.347	(0.800)	262886	9.70623	9.71	
34 Ethyl Acetate	43		4.472	4.475	(0.823)	498755	10.2193	10.2	
35 cis-1,2-Dichloroethene	96		4.491	4.488	(0.826)	173264	10.1474	10.1 (Q)	
36 Ethyl Tert-Butyl Ether	59		4.565	4.569	(0.840)	620146	10.0277	10.0	
37 Chloroform	83		4.671	4.665	(0.859)	413247	9.86049	9.86 (Q)	
38 Tetrahydrofuran	42		4.739	4.745	(0.872)	230778	10.6541	10.7	
39 1,1,1-Trichloroethane	97		4.986	4.983	(0.917)	420728	10.0990	10.1	
40 1,2-Dichloroethane	62		5.064	5.061	(0.931)	311118	10.1799	10.2	
41 Benzene	78		5.221	5.221	(0.960)	517707	9.89489	9.89	
42 Carbon tetrachloride	117		5.241	5.237	(0.964)	413217	10.1531	10.2	
43 Cyclohexane	56		5.266	5.263	(0.969)	279425	10.0463	10.0 (M)	
44 Tert Amyl Methyl Ether	73		5.363	5.363	(0.986)	534931	10.3521	10.4	
* 45 1,4-Difluorobenzene	114		5.437	5.434	(1.000)	443857	10.0000		
46 2,2,4-Trimethylpentane	57		5.533	5.527	(1.018)	882807	9.82303	9.82	
47 Heptane	43		5.662	5.659	(1.041)	372534	9.90596	9.91	
48 Trichloroethene	130		5.768	5.765	(1.061)	208587	9.97825	9.98	
49 1,2-Dichloropropane	63		5.813	5.803	(1.069)	214974	10.1321	10.1	
50 Methyl methacrylate	69		5.806	5.803	(1.068)	199493	10.1043	10.1 (Q)	
51 1,4-Dioxane	88		5.855	5.864	(1.077)	115616	10.4681	10.5	
52 Bromodichloromethane	83		5.974	5.967	(1.099)	461703	10.1144	10.1	
53 Methylcyclohexane	98		6.237	6.234	(1.147)	121409	10.6376	10.6 (Q)	
54 Methyl Isobutyl Ketone	43		6.311	6.315	(1.161)	551214	10.3693	10.4	
55 cis-1,3-Dichloropropene	75		6.398	6.398	(1.177)	330697	9.42084	9.42	
56 trans-1,3-Dichloropropene	75		6.842	6.839	(1.258)	313479	10.1958	10.2	
57 Toluene	91		6.941	6.935	(1.277)	581849	9.44671	9.45	
58 1,1,2-Trichloroethane	97		7.067	7.064	(1.300)	218141	10.1798	10.2	
59 Methyl Butyl Ketone	43		7.157	7.163	(0.849)	520495	10.1919	10.2	
60 n-Octane	43		7.366	7.366	(0.874)	520780	9.73534	9.74	
61 Dibromochloromethane	129		7.601	7.597	(0.902)	401856	9.98982	9.99	
62 Tetrachloroethene	166		7.684	7.681	(0.912)	235174	9.69549	9.70	
63 1,2-Dibromoethane	107		7.803	7.803	(0.926)	359129	10.0053	10.0	
* 64 Chlorobenzene - d5	117		8.427	8.424	(1.000)	396198	10.0000		
65 Chlorobenzene	112		8.472	8.469	(1.005)	441090	9.57814	9.58	
66 Ethyl Benzene	91		8.691	8.684	(1.031)	793456	9.27077	9.27	
67 m&p-Xylene	91		8.845	8.845	(1.050)	667681	9.85619	9.86 (M)	
68 n-Nonane	43		9.215	9.211	(1.093)	546712	9.68792	9.69	
69 Styrene	104		9.279	9.273	(1.101)	421840	9.87013	9.87 (M)	
70 o-Xylene	91		9.311	9.311	(1.105)	631189	9.11432	9.11	
71 Bromoform	173		9.382	9.379	(1.113)	329774	11.3434	11.3	
72 1,1,2,2-Tetrachloroethane	83		9.726	9.723	(1.154)	474941	9.73060	9.73	
73 Isopropylbenzene	105		9.861	9.864	(1.170)	798768	9.84791	9.85	
74 N-Propylbenzene	91		10.430	10.433	(1.238)	1030729	9.55977	9.56	
75 4-Ethyltoluene	105		10.613	10.613	(1.259)	748589	9.57337	9.57	
76 1,3,5-Trimethylbenzene	105		10.687	10.687	(1.268)	672161	9.13719	9.14	
77 n-Decane	57		11.041	11.041	(2.031)	529254	10.0820	10.1	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ppbv)	FINAL (ppbv)
78 Tert-Butyl Benzene	119	11.134	11.131	(1.321)	597063	9.82119	9.82
79 1,2,4-Trimethylbenzene	105	11.179	11.179	(1.327)	663200	8.83567	8.84
80 Sec- Butylbenzene	105	11.440	11.440	(1.357)	961584	9.90280	9.90
81 1,3-Dichlorobenzene	146	11.472	11.472	(1.361)	360246	9.97300	9.97
82 Benzyl Chloride	91	11.542	11.546	(1.370)	529651	11.7319	11.7
83 1,4-Dichlorobenzene	146	11.607	11.607	(1.377)	352321	10.0457	10.0
84 p-Isopropyltoluene	119	11.645	11.645	(1.382)	792639	9.98613	9.99
85 1,2,3-Trimethylbenzene	105	11.661	11.658	(1.384)	688674	10.0643	10.1
86 1,2-Dichlorobenzene	146	11.912	11.912	(1.414)	336936	9.69979	9.70
87 N-Butylbenzene	91	12.092	12.096	(1.435)	760288	9.54960	9.55
88 1,2-Dibromo-3-Chloropropane	157	12.607	12.607	(1.496)	155749	8.00997	8.01
89 1,2,4-Trichlorobenzene	180	13.555	13.555	(1.609)	176606	8.41345	8.41
90 Naphthalene	128	13.694	13.694	(1.625)	468080	8.22629	8.23
91 Hexachlorobutadiene	225	13.806	13.806	(1.638)	177529	8.44429	8.44

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airH.i\032519.b\08413.D
Report Date: 25-Mar-2019 12:39

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airH.i
Lab File ID: 08413.D
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airH.i\032519.b\TO15_084-19.m
Misc Info:

Calibration Date: 25-MAR-2019
Calibration Time: 09:13

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	451734	271040	632428	443857	-1.74
64 Chlorobenzene - d	397119	238271	555967	396198	-0.23

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.43	5.10	5.76	5.44	0.06
64 Chlorobenzene - d	8.43	8.10	8.76	8.43	0.00

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

Data File: \\192.168.10.12\chem\10airH.i\032519.b\08413.D

Date : 25-MAR-2019 11:18

Client ID:

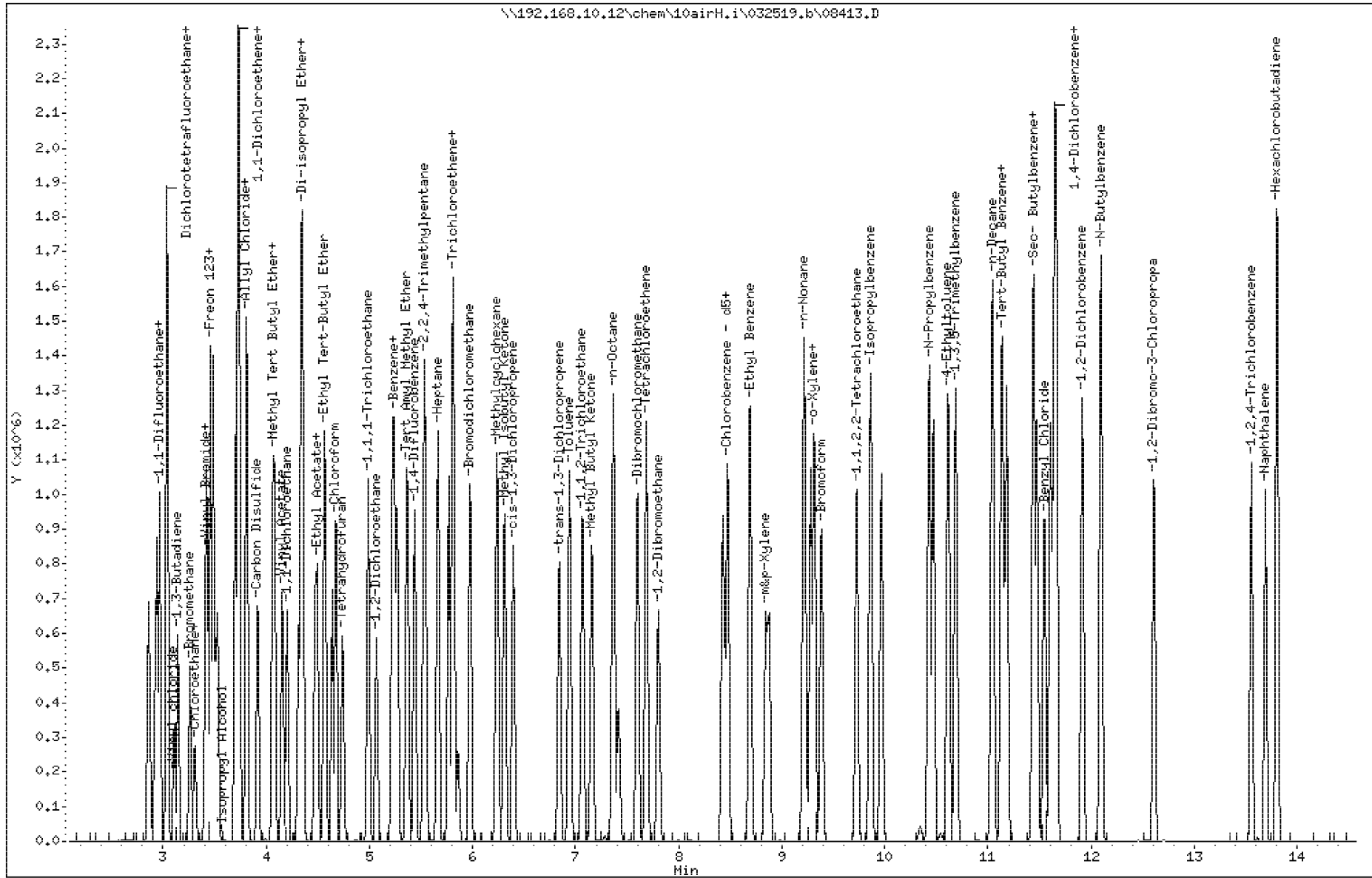
Sample Info:

Column phase: ZB-5MSplus SN338857

Instrument: 10airH.i

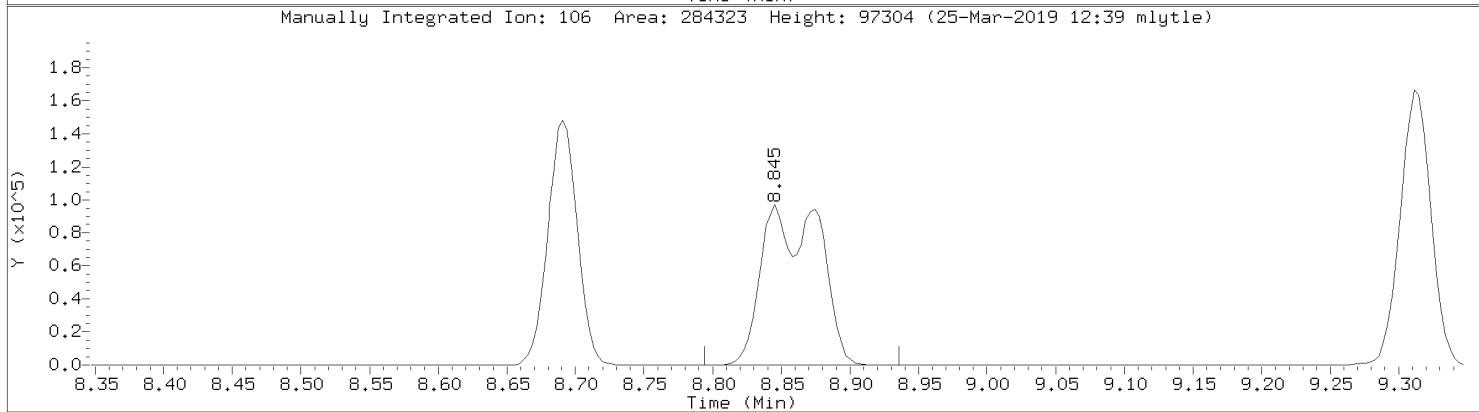
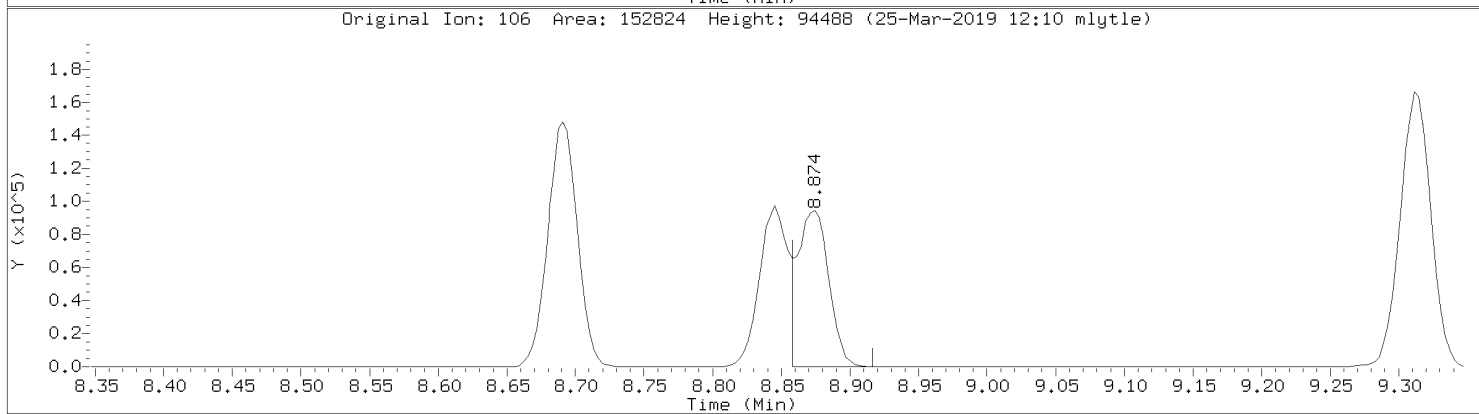
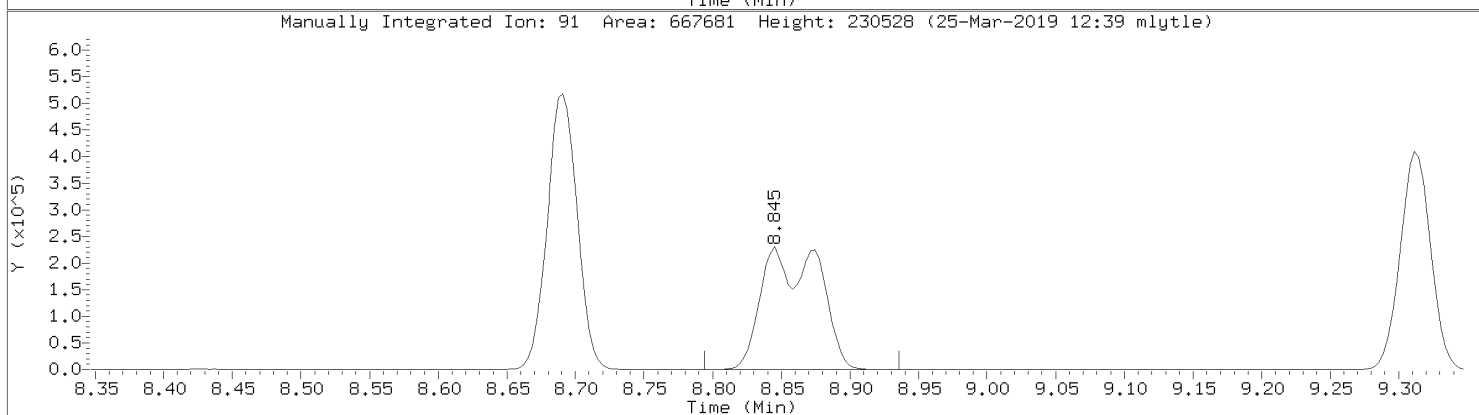
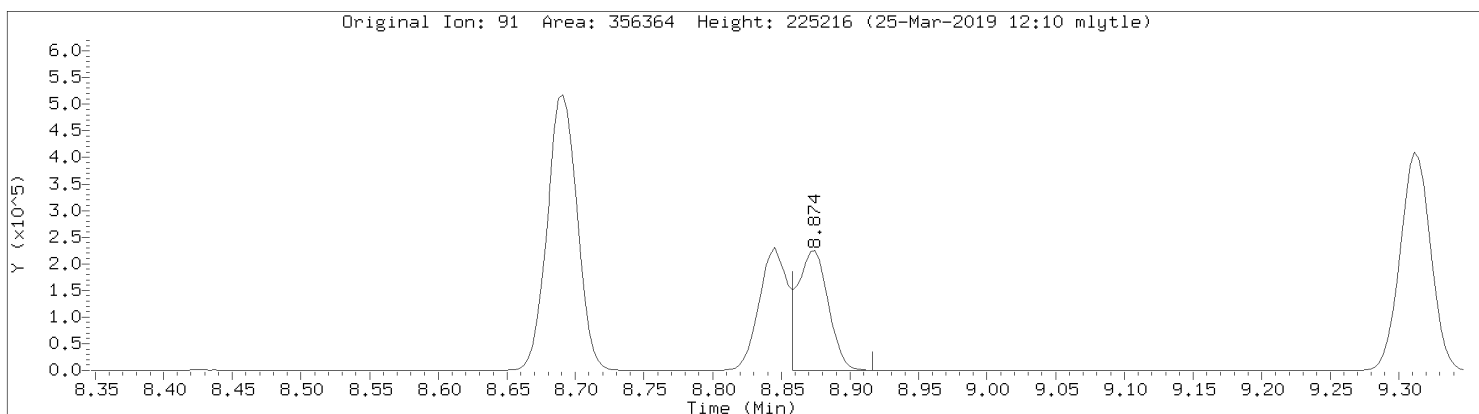
Operator: MJL

Column diameter: 0.32



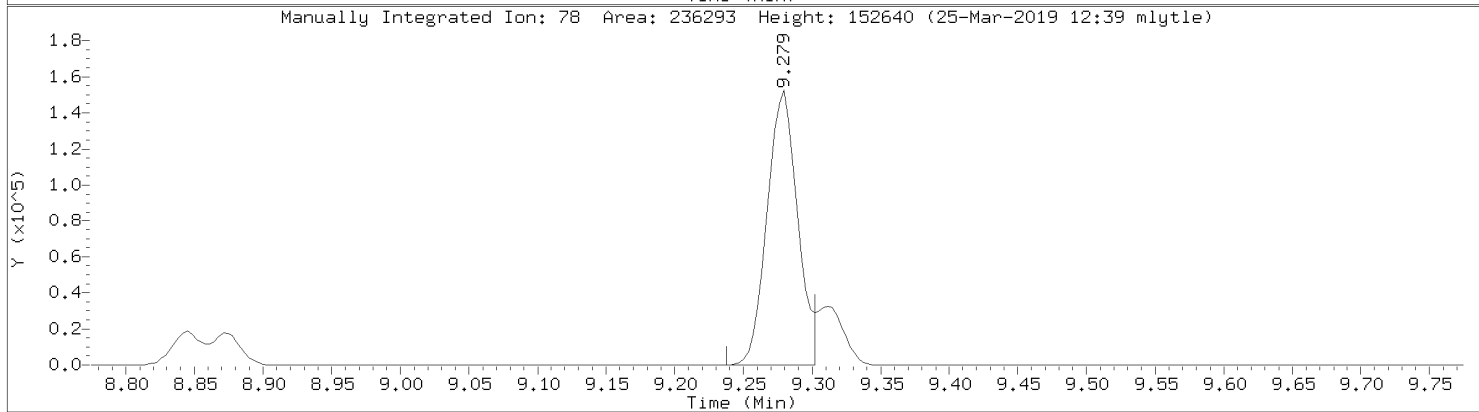
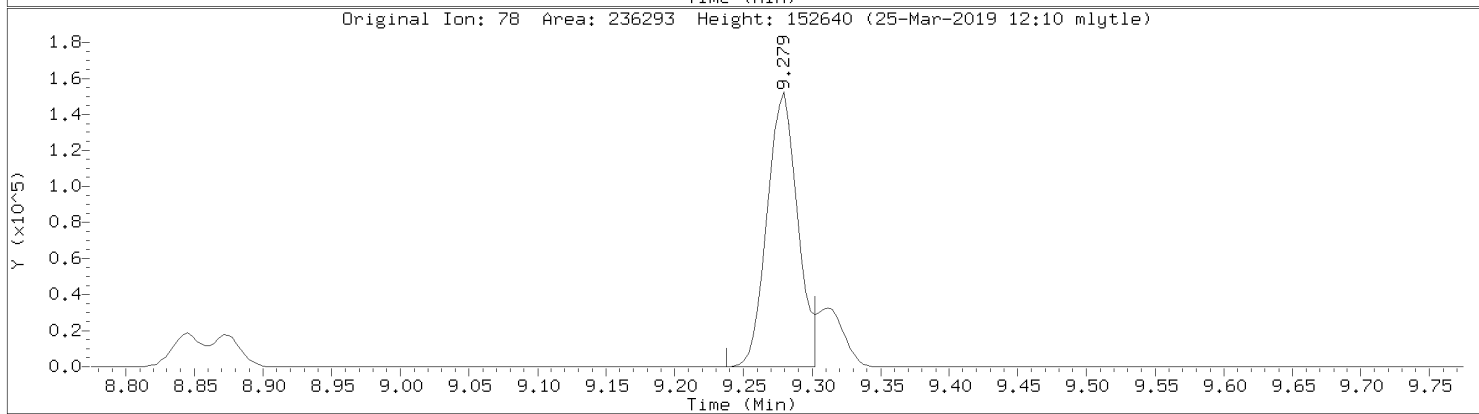
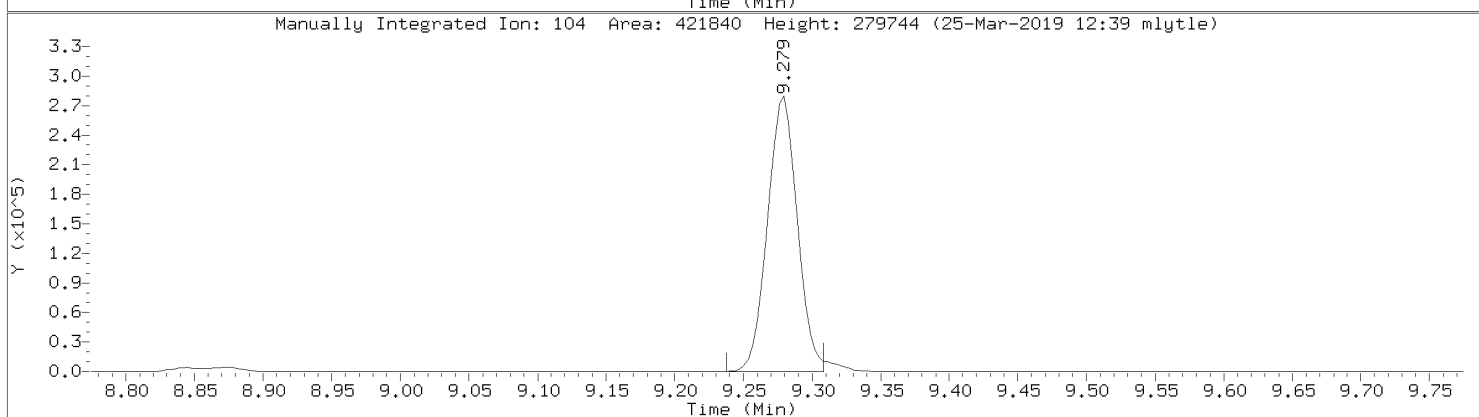
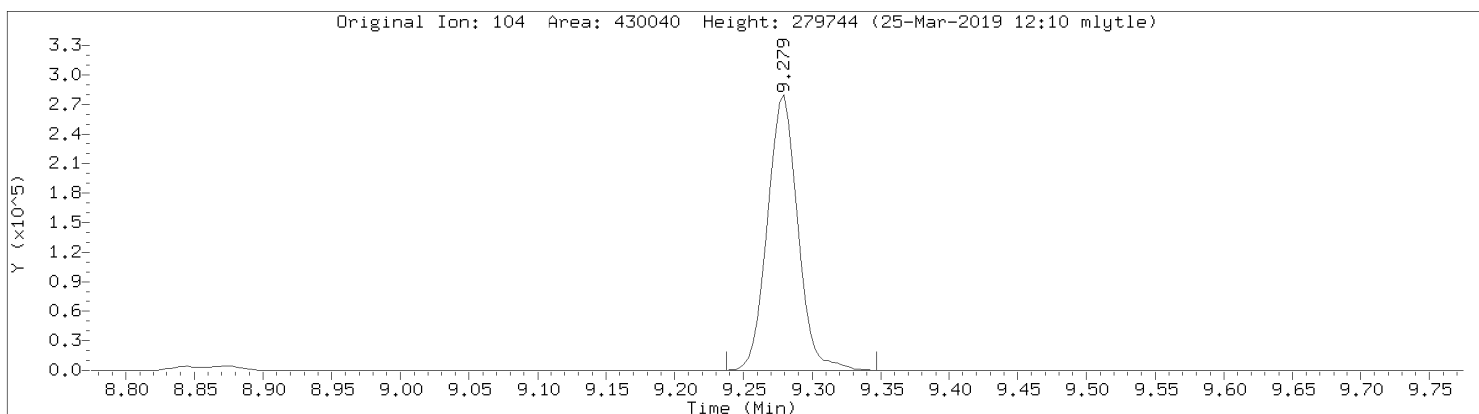
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Injection Date: 25-MAR-2019 11:18
Instrument: 10airH.i
Lab Sample ID: ICV

Compound: m&p-Xylene
CAS Number: 7816-60-0

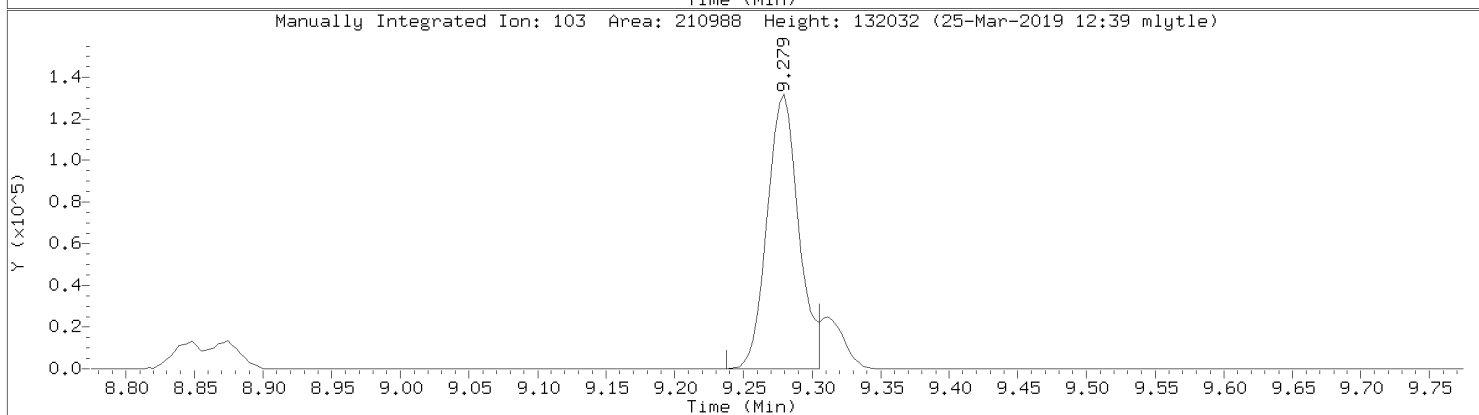
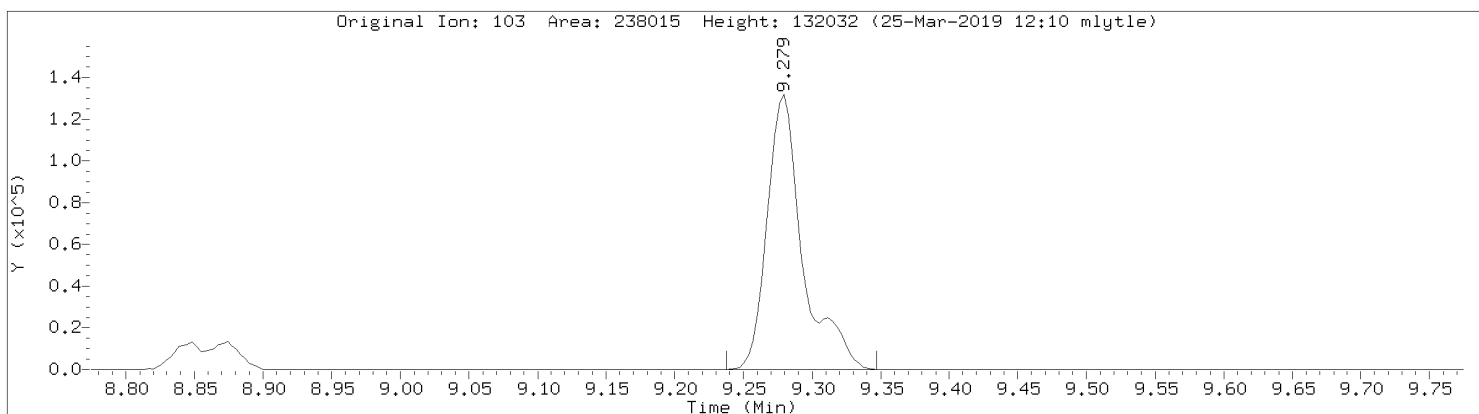


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Injection Date: 25-MAR-2019 11:18
Instrument: 10airH.i
Lab Sample ID: ICV

Compound: Styrene
CAS Number: 100-42-5

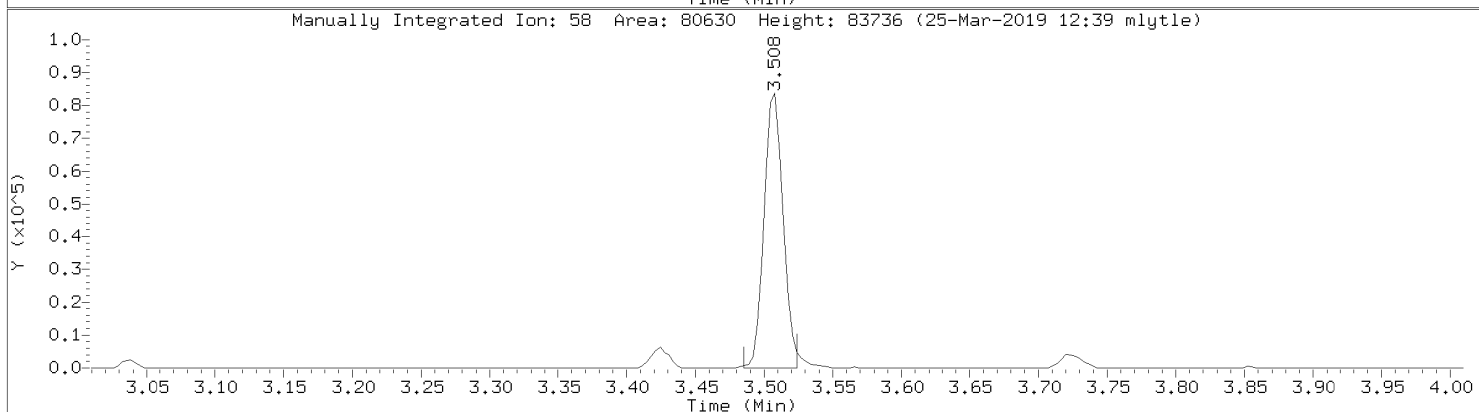
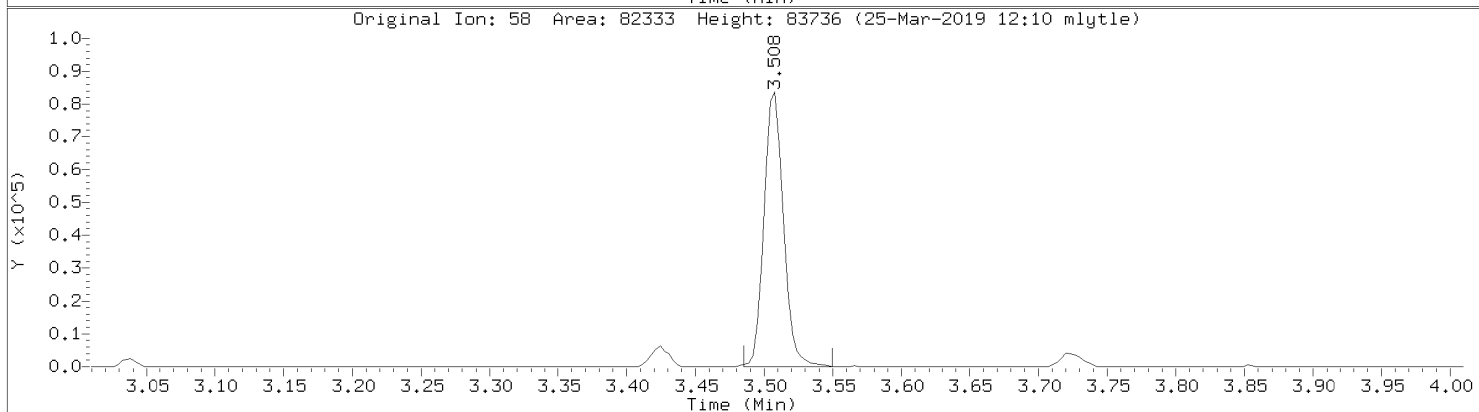
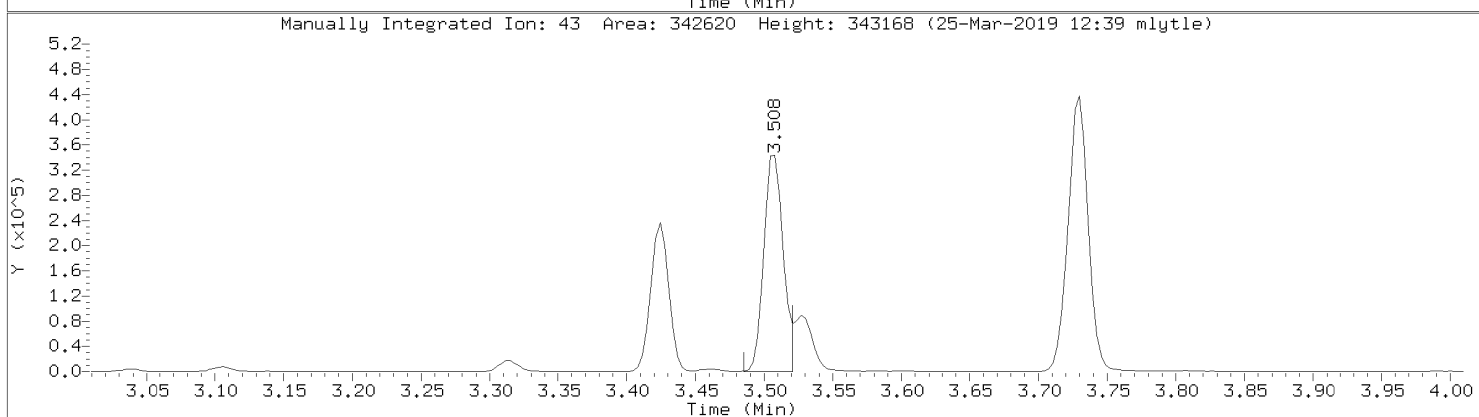
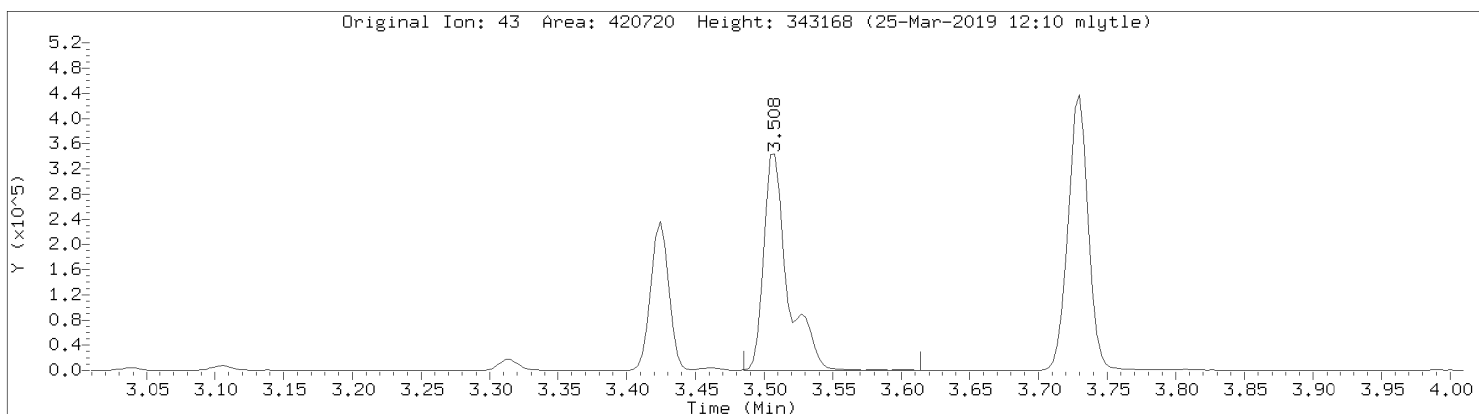


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Instrument: 10airH.i
Lab Sample ID: ICV



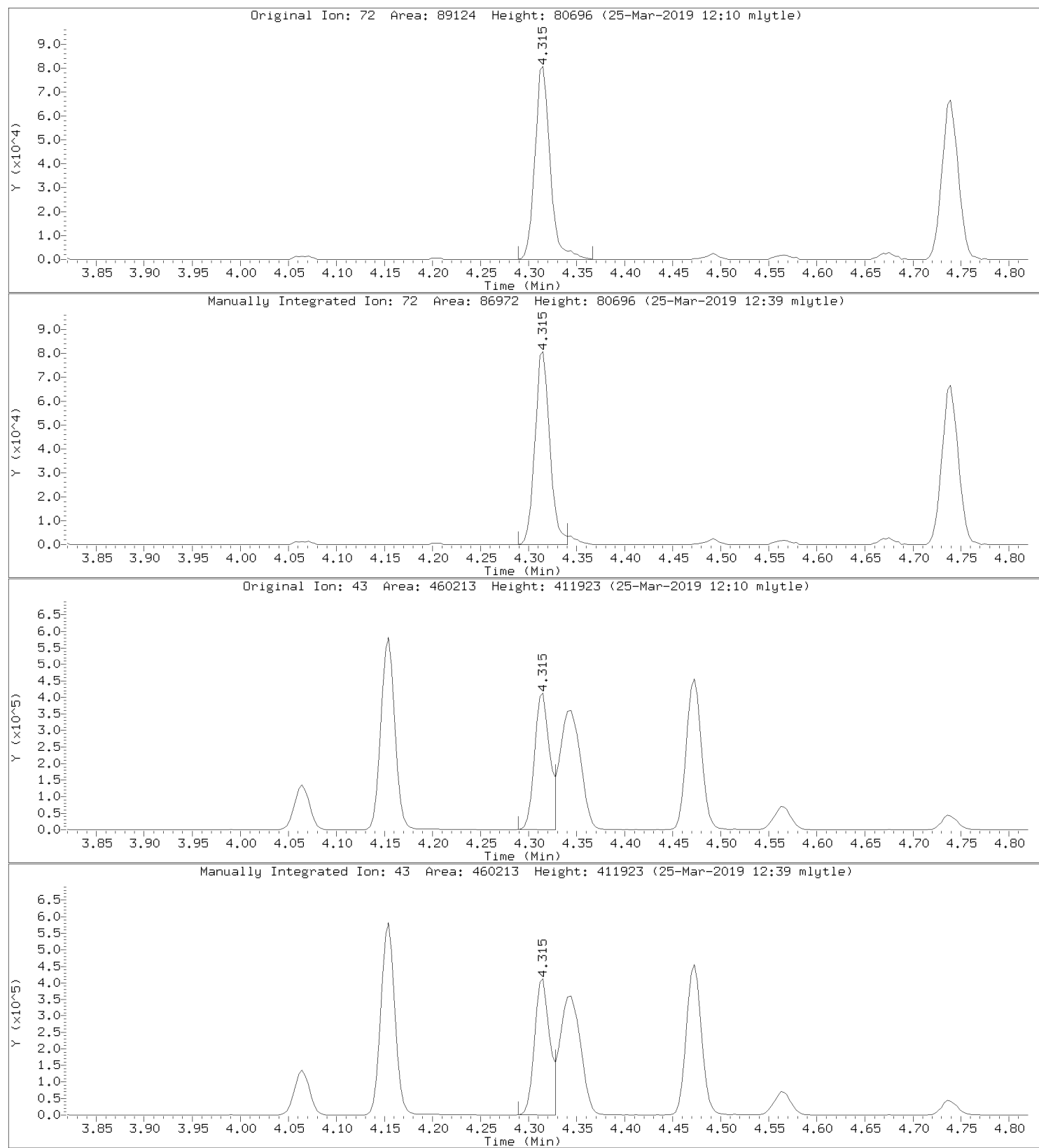
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Injection Date: 25-MAR-2019 11:18
Instrument: 10airH.i
Lab Sample ID: ICV

Compound: Acetone
CAS Number: 67-64-1



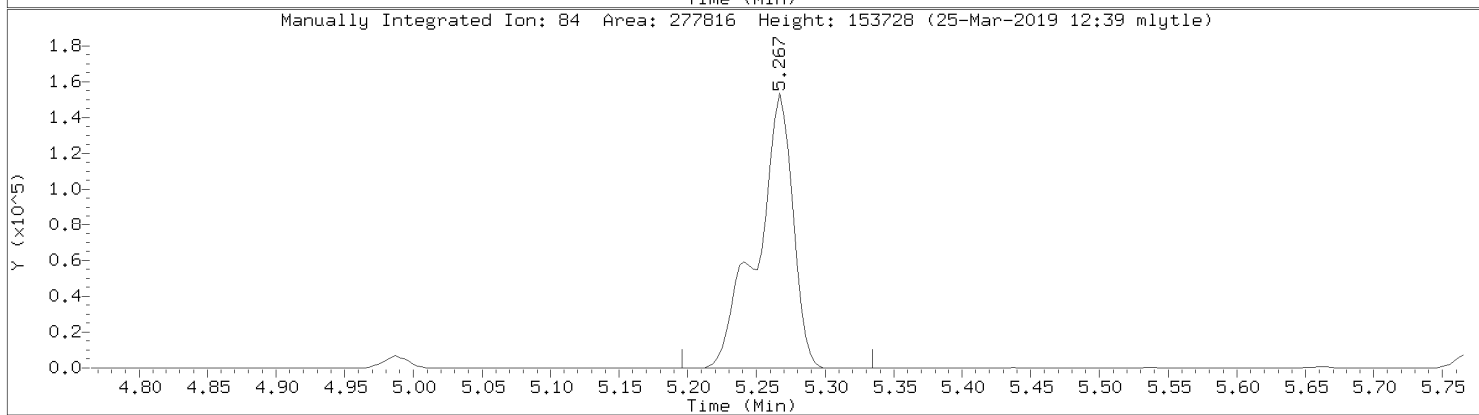
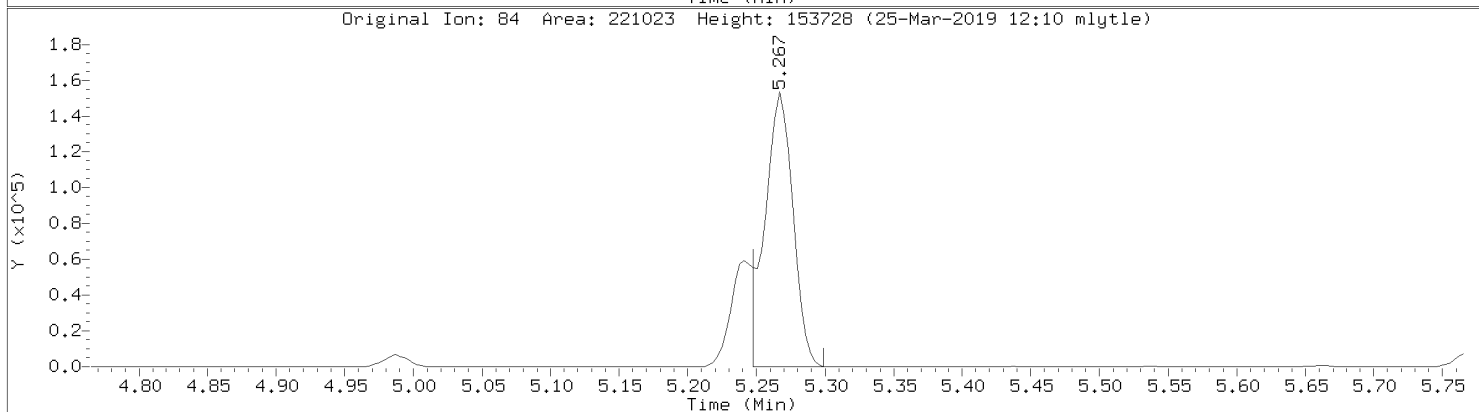
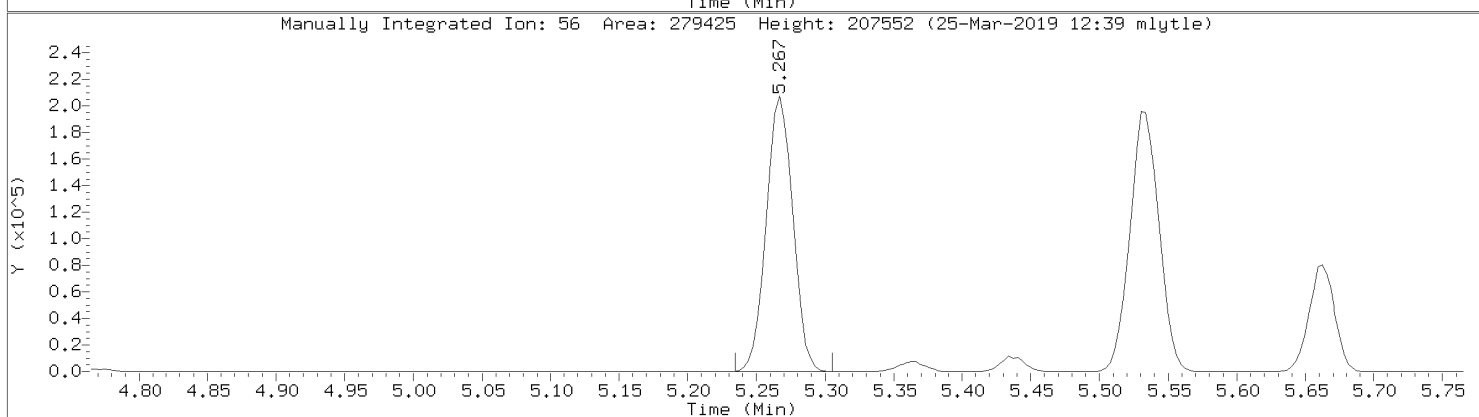
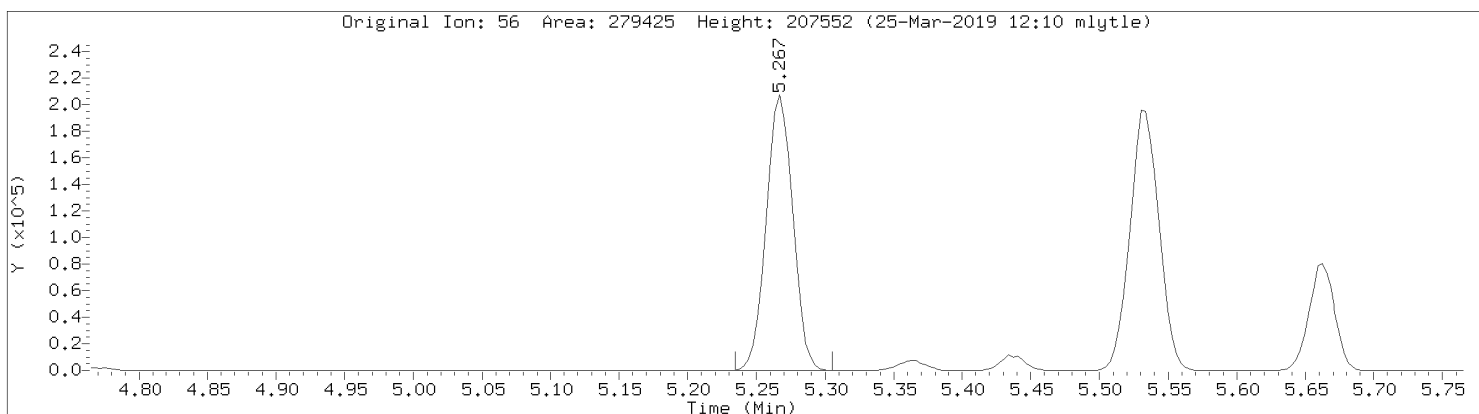
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Injection Date: 25-MAR-2019 11:18
Instrument: 10airH.i
Lab Sample ID: ICV

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3

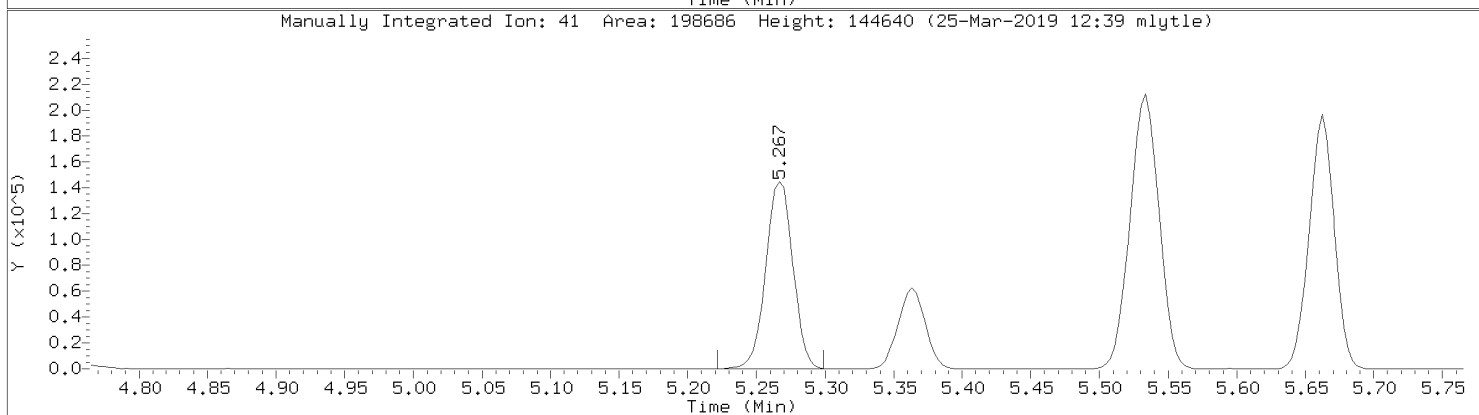
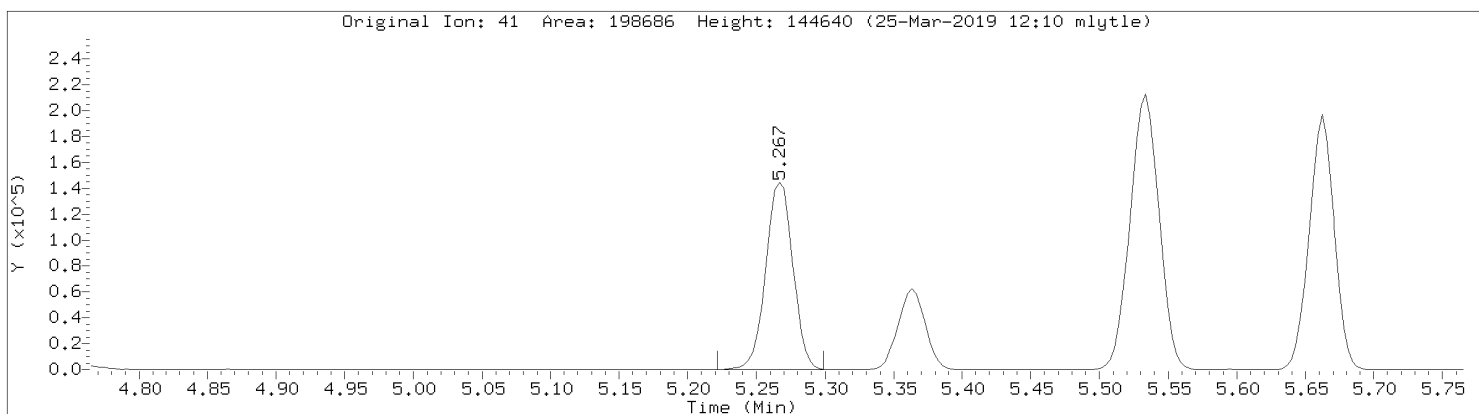


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Injection Date: 25-MAR-2019 11:18
Instrument: 10airH.i
Lab Sample ID: ICV

Compound: Cyclohexane
CAS Number: 110-82-7

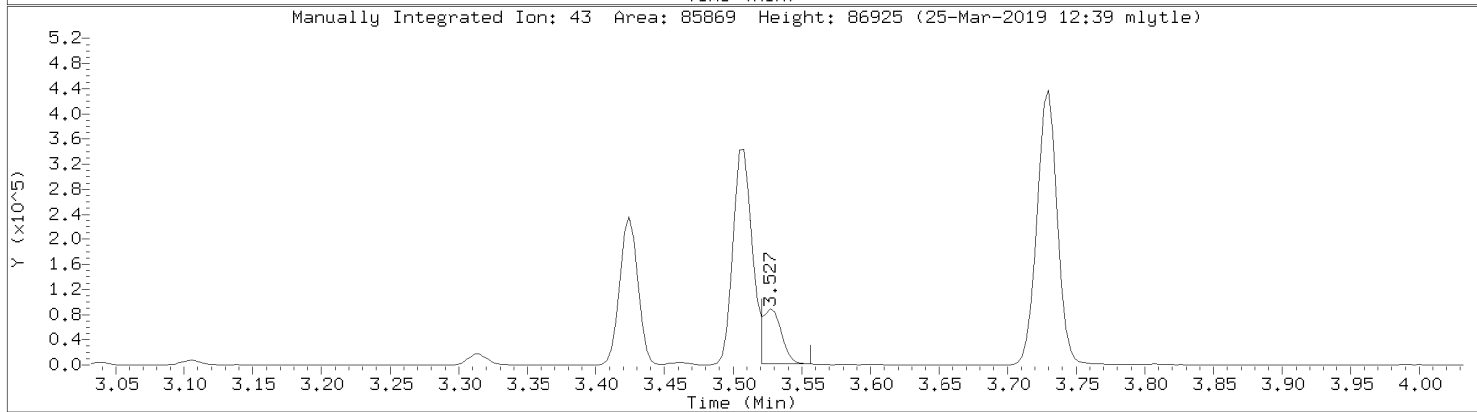
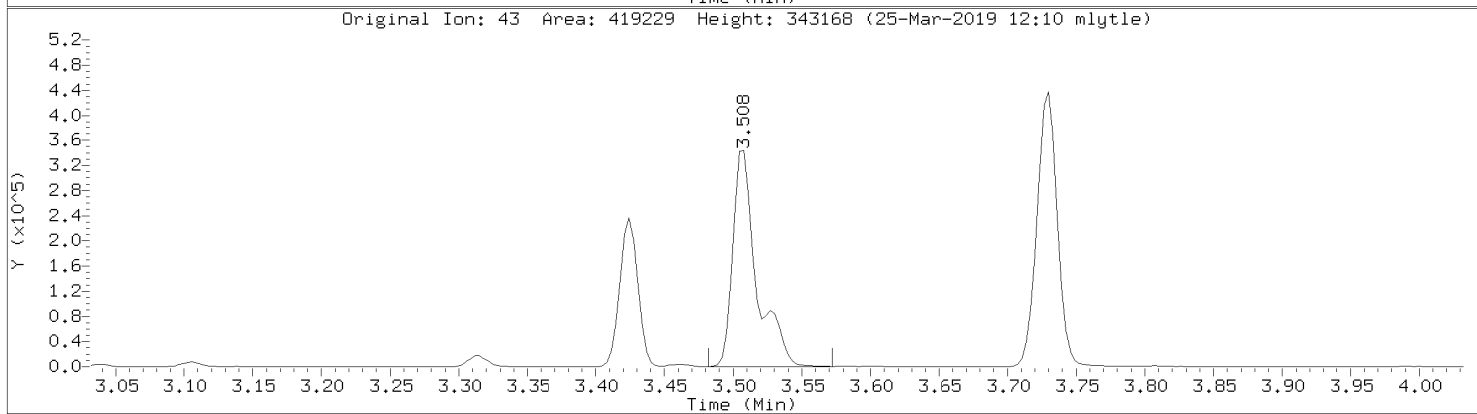
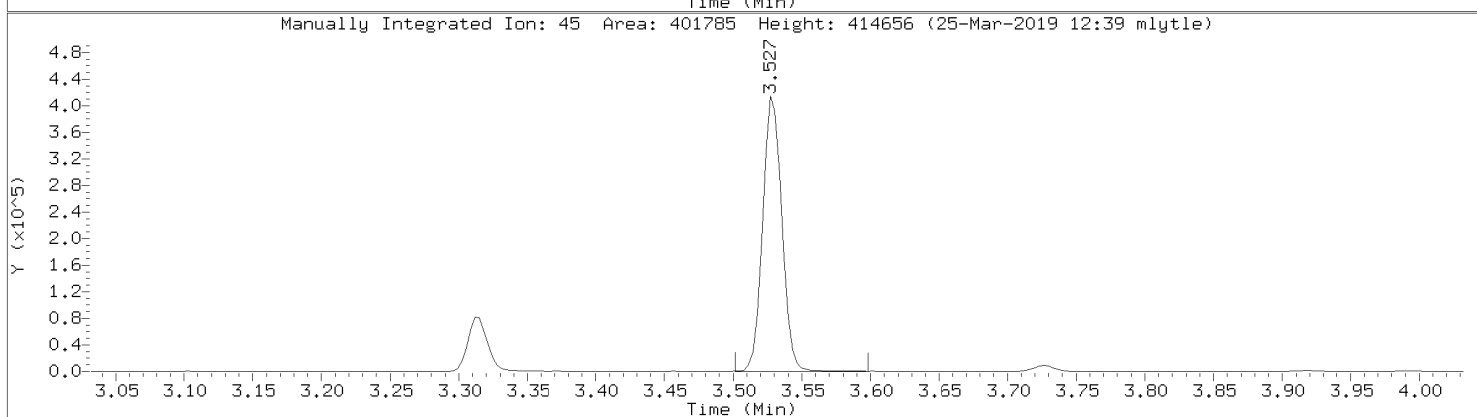
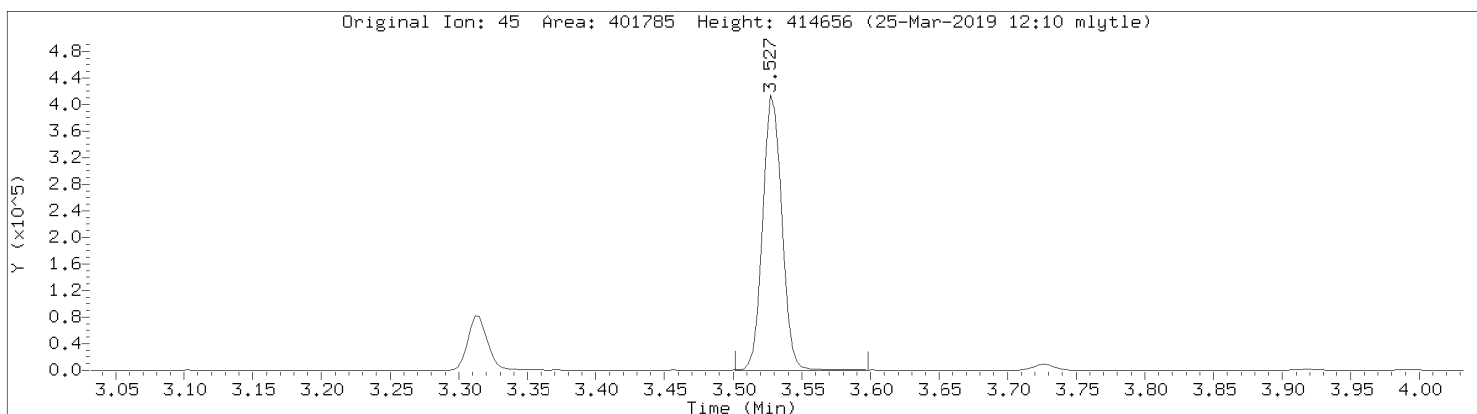


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Injection Date: 25-MAR-2019 11:18
Instrument: 10airH.i
Lab Sample ID: ICV



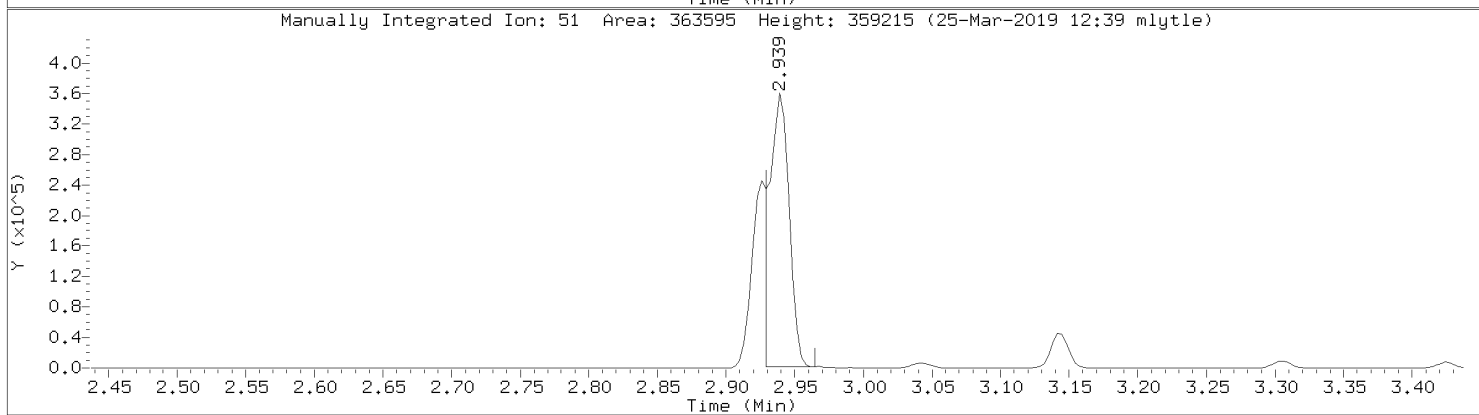
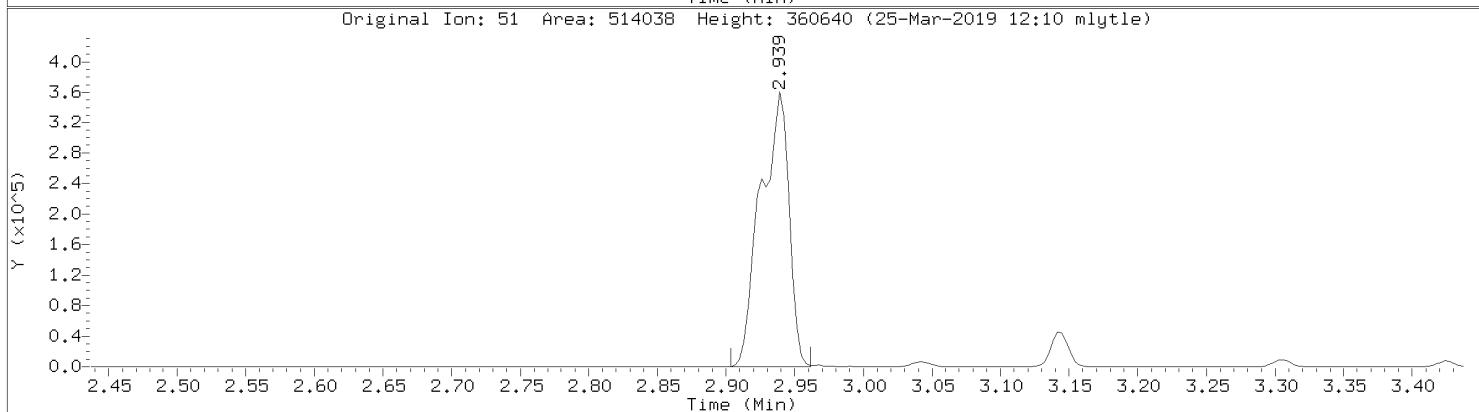
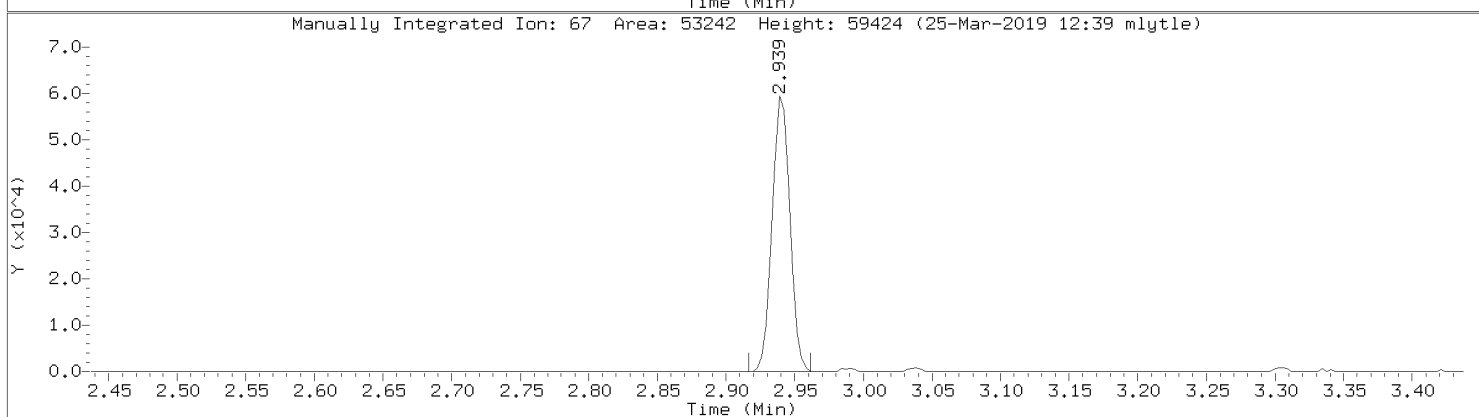
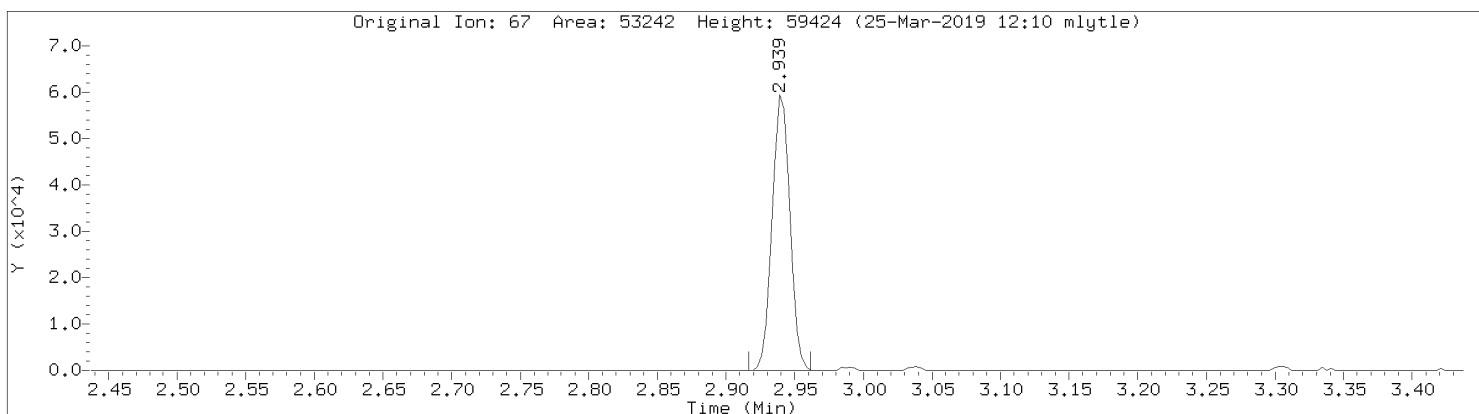
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Injection Date: 25-MAR-2019 11:18
Instrument: 10airH.i
Lab Sample ID: ICV

Compound: Isopropyl Alcohol
CAS Number: 67-63-0

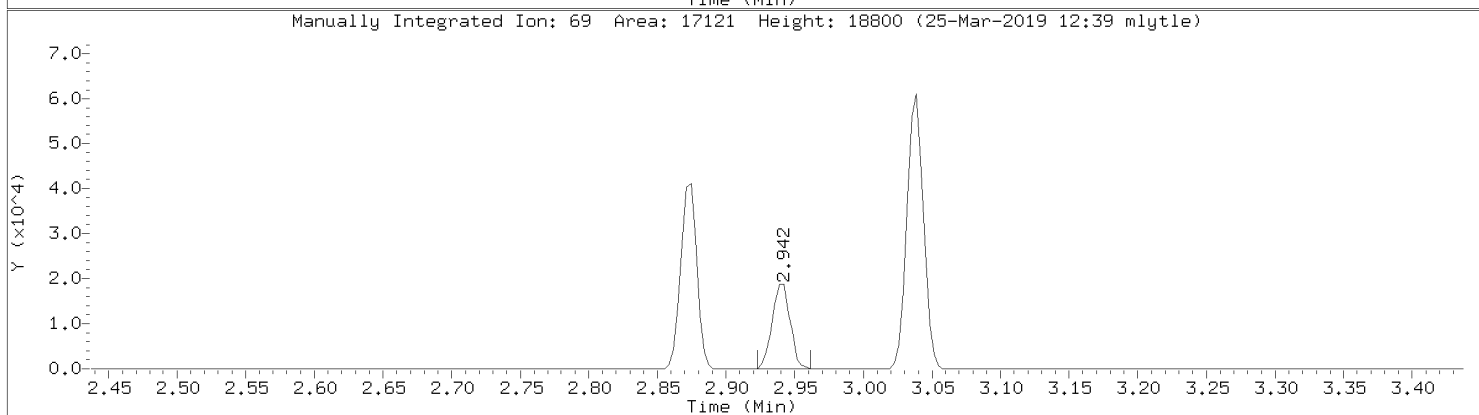
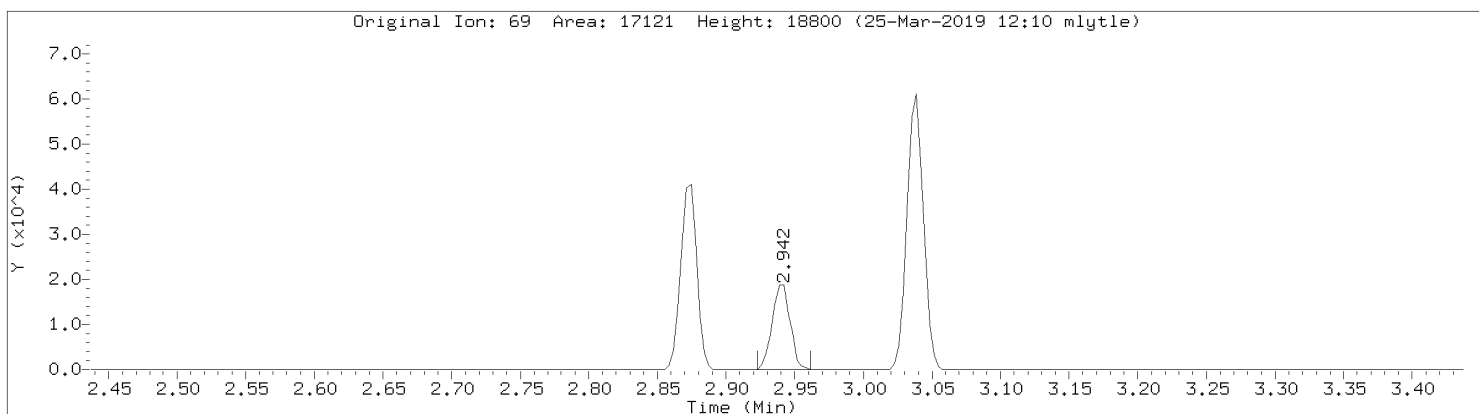


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Injection Date: 25-MAR-2019 11:18
Instrument: 10airH.i
Lab Sample ID: ICV

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

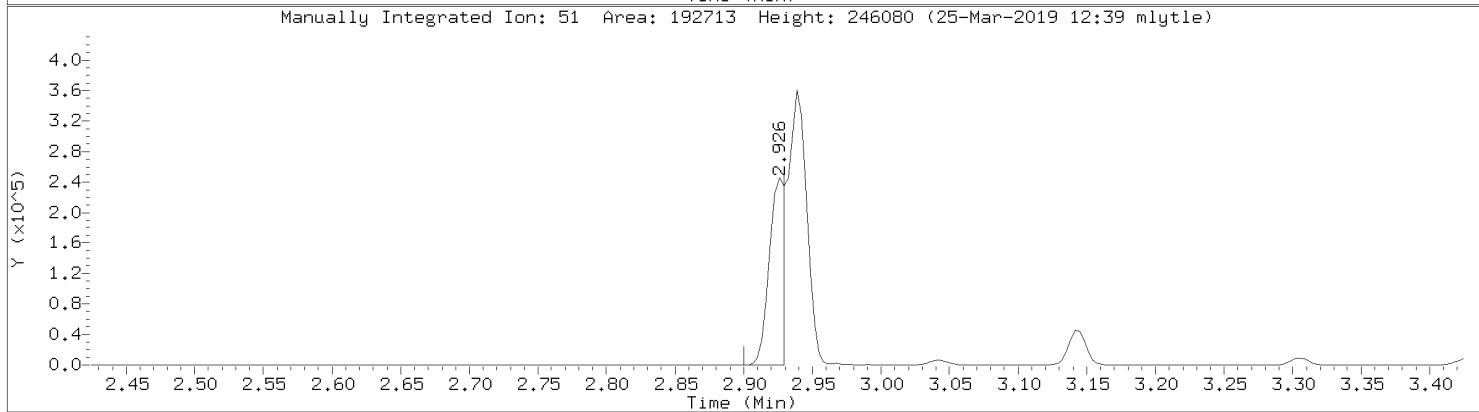
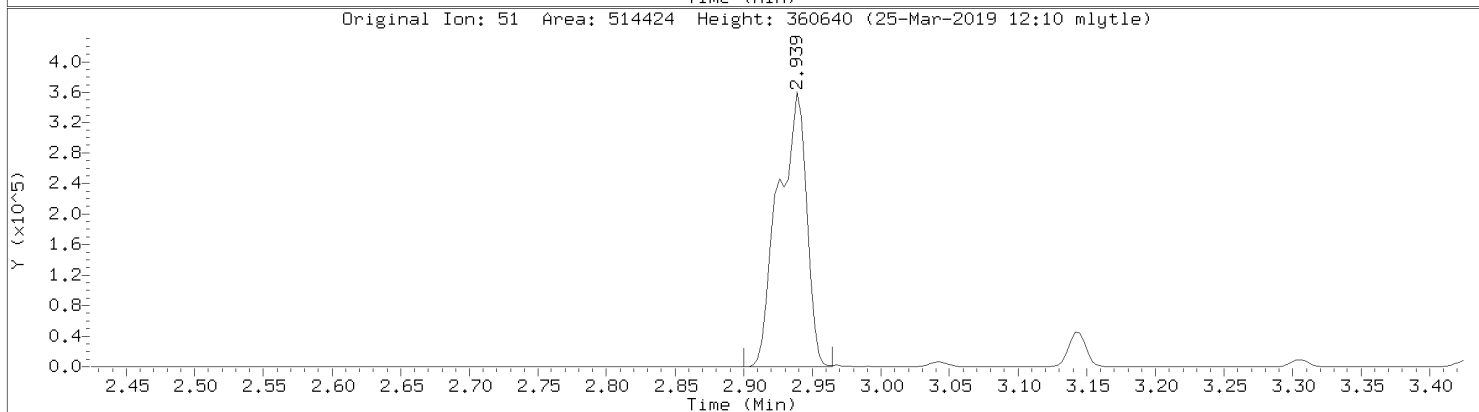
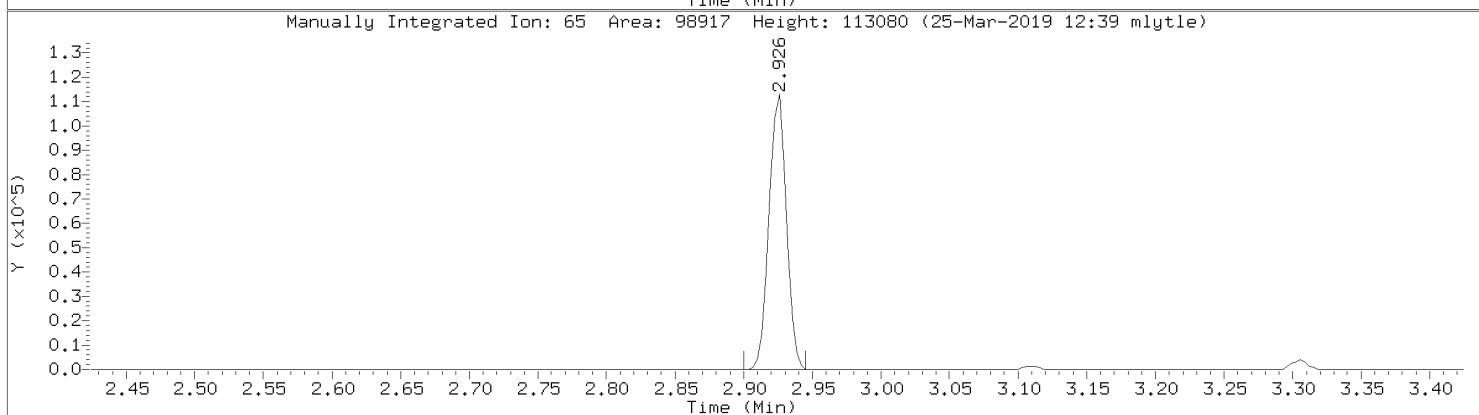
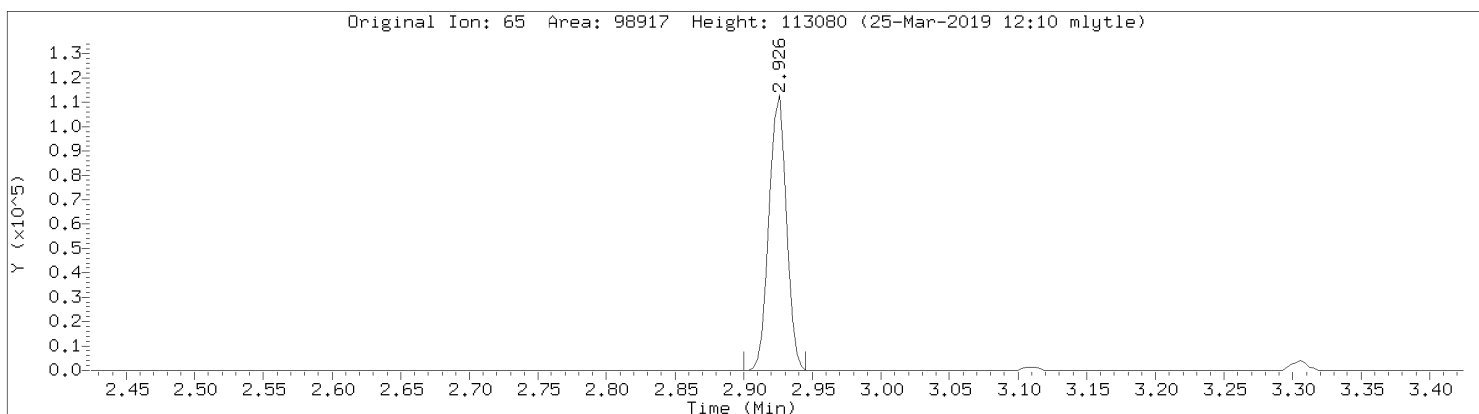


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Injection Date: 25-MAR-2019 11:18
Instrument: 10airH.i
Lab Sample ID: ICV

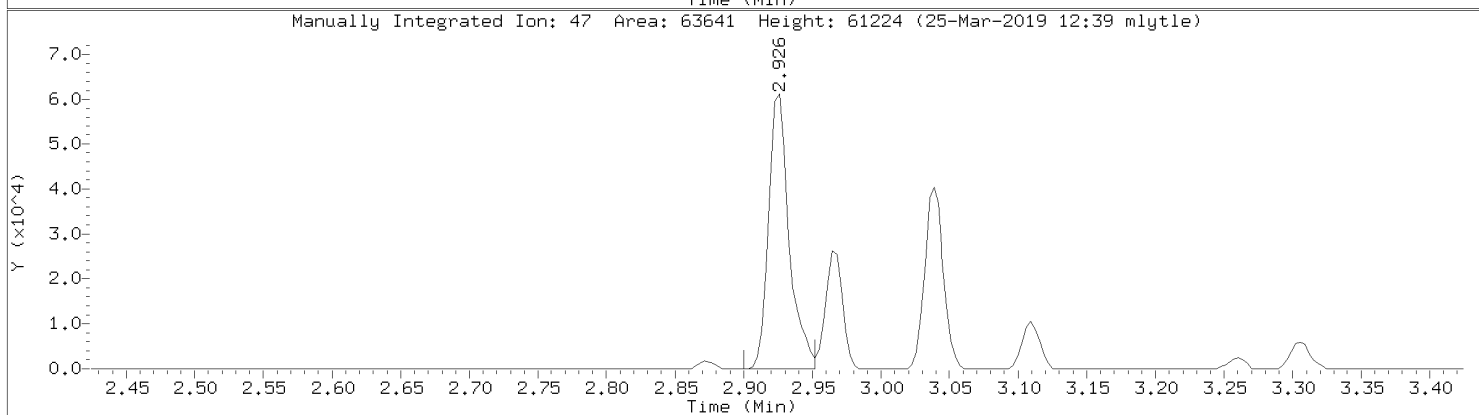
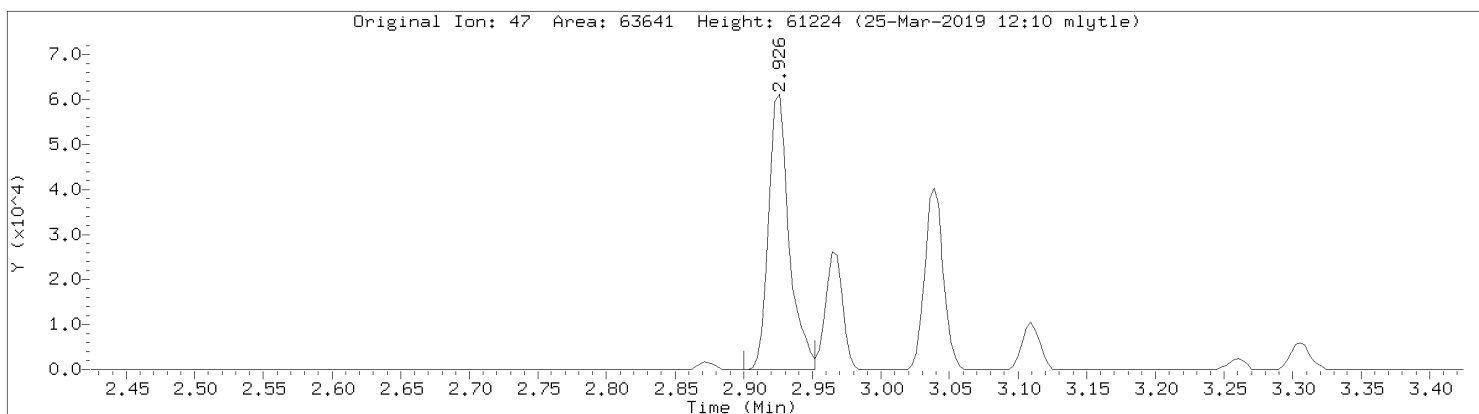


Data File: \\192.168.10.12\chem\10airH.i\032519.b\08413.D
Injection Date: 25-MAR-2019 11:18
Instrument: 10airH.i
Lab Sample ID: ICV

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6



Data File: \\192.168.10.12\chem\10airH.i\032519.b\08413.D
Injection Date: 25-MAR-2019 11:18
Instrument: 10airH.i
Lab Sample ID: ICV



Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2019 07:49
 End Cal Date : 30-MAR-2019 10:33
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airI.i\033019.b\T015_089-19.m
 Last Edit : 30-Mar-2019 11:25 10airI.i

Calibration File Names:

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 Level 02: all \\192.168.10.12\chem\10airI.i\033019.b\08908.D
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Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
1 1,1-Difluoroethane	0.42748	0.28235	0.25520	0.24654	0.24097	0.21608					
	0.21058						AVRG		0.26846		27.61965
2 Chlorodifluoromethane	0.13101	0.12083	0.10679	0.12941	0.12069	0.11184					
	0.10734						AVRG		0.11827		8.39383
3 Propylene	0.67463	0.58401	0.44253	0.44415	0.43936	0.39070					
	0.37625						AVRG		0.47880		22.84176
4 Dichlorodifluoromethane	1.76733	1.48866	1.21123	1.10800	1.08033	0.93082					
	0.80181						AVRG		1.19831		27.65853

Pace Analytical Services, Inc.

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 Method file : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Last Edit : 30-Mar-2019 11:25 10airI.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
5 Dichlorotetrafluoroethane	1.27660 0.60858	1.07868	0.88074	0.78969	0.78204	0.71178	AVRG		0.87544		26.22842
6 Chloromethane	0.71014 0.38418	0.65971	0.50615	0.46279	0.46150	0.43480	AVRG		0.51704		23.45009
7 Vinyl chloride	0.42000 0.25894	0.42609	0.33935	0.30722	0.30260	0.28897	AVRG		0.33474		19.38602
8 1,3-Butadiene	0.31366 0.23588	0.34751	0.28947	0.27798	0.26999	0.26294	AVRG		0.28535		12.73414
9 Bromomethane	0.34254 0.21939	0.34756	0.29736	0.26719	0.25998	0.23988	AVRG		0.28199		17.49142
10 Chloroethane	0.20664 0.11662	0.17754	0.15765	0.14712	0.13457	0.12831	AVRG		0.15264		20.38263
11 Ethanol	++++ 0.13192	0.26937	0.22433	0.20959	0.16752	0.15407	AVRG		0.19280		26.43145

Pace Analytical Services, Inc.

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Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
12 Vinyl Bromide	0.32009 0.21364	0.32538	0.25812	0.24542	0.25633	0.23191	AVRG		0.26441		16.13230
13 Isopentane	++++ 0.35772	0.64908	0.53791	0.43607	0.43302	0.40533	AVRG		0.46985		22.52150
14 Freon 123	0.83980 0.49939	0.75909	0.65396	0.61206	0.61956	0.56225	AVRG		0.64944		17.85644
15 Acrolein	0.19917 0.11375	0.16129	0.14432	0.14424	0.13626	0.12601	AVRG		0.14643		18.90975
16 Trichlorofluoromethane	1.42988 0.73742	1.23364	1.00739	0.94546	0.94446	0.85640	AVRG		1.02209		23.00215
17 Acetone	1.46806 ++++	1.26126	1.02961	0.94108	0.74028	++++	AVRG		1.08806		26.00985
18 Isopropyl Alcohol	1.10109 ++++	0.91549	0.80571	0.74851	0.65342	0.46974	AVRG		0.78233		27.73302

Pace Analytical Services, Inc.

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Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
19 Tert Butyl Alcohol (TBA)	1.44101 0.84731	1.23441	1.03081	1.03492	1.03788	0.92843	AVRG		1.07925		18.43498
20 Acrylonitrile	0.57844 0.30628	0.47768	0.43210	0.38371	0.38282	0.33706	AVRG		0.41401		22.23268
21 1,1-Dichloroethene	1.04875 0.60638	0.88138	0.77615	0.74280	0.73930	0.66773	AVRG		0.78036		18.73926
22 Methyl Acetate	1.62154 0.84047	1.40119	1.15492	1.08726	1.06623	0.93278	AVRG		1.15777		23.36317
23 Freon 113	1.06871 0.63591	1.00992	0.85306	0.80219	0.77927	0.69707	AVRG		0.83516		18.82995
24 Methylene chloride	50086 6152177	90924	199349	380771	3340484	5159766	QUAD	0.02650	0.66000	-0.02165	0.99891
25 Allyl Chloride	0.24426 0.15090	0.24644	0.22366	0.18937	0.18337	0.16370	AVRG		0.20024		19.11796

Pace Analytical Services, Inc.

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Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
26 Carbon Disulfide	1.50483 0.88041	1.26699	1.10738	1.09149	1.10557	0.96988	AVRG		1.13237		18.01738
27 trans-1,2-dichloroethene	0.49285 0.33331	0.47386	0.45222	0.41417	0.39587	0.35195	AVRG		0.41632		14.51596
28 Methyl Tert Butyl Ether	1.62452 0.93576	1.40634	1.23165	1.15414	1.17868	1.03268	AVRG		1.22340		18.88698
29 Vinyl Acetate	2.33101 1.18961	1.83928	1.59725	1.53013	1.58304	1.36623	AVRG		1.63379		22.51502
30 1,1-Dichloroethane	1.09386 0.65228	0.93663	0.81356	0.79684	0.78673	0.69681	AVRG		0.82524		18.06840
31 Methyl Ethyl Ketone	0.35569 0.18000	0.30188	0.26484	0.26033	0.20758	0.19096	AVRG		0.25161		25.32157
32 n-Hexane	1.25472 0.59206	0.85304	0.77575	0.75012	0.70639	0.63539	AVRG		0.79535		27.71800

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Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients			%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2		
	30.0000											
	Level 7											
33 Di-isopropyl Ether	2.84315 1.38634	2.56195	2.25280	2.01743	1.86259	1.58287	AVRG		2.07245			25.10052
34 Ethyl Acetate	1.98530 1.04759	1.76850	1.36659	1.34422	1.32092	1.16374	AVRG		1.42812			23.28214
35 cis-1,2-Dichloroethene	0.65409 0.34061	0.52036	0.43268	0.41995	0.40909	0.36500	AVRG		0.44883			23.83423
36 Ethyl Tert-Butyl Ether	2.08425 1.22301	1.97233	1.60289	1.51037	1.52955	1.35299	AVRG		1.61077			19.44233
37 Chloroform	14295 2713953	24724	52991	99258	1051837	1925311	QUAD	0.00199	0.96479	-0.07285		0.99979
38 Tetrahydrofuran	0.74364 0.53004	0.74376	0.62666	0.57936	0.62207	0.56086	AVRG		0.62949			13.48944
39 1,1,1-Trichloroethane	1.30011 0.81887	1.17153	0.98399	0.97466	0.97715	0.87722	AVRG		1.01479			16.45313

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Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
40 1,2-Dichloroethane	1.10557 0.66238	0.92212	0.80318	0.75061	0.78387	0.70530	AVRG		0.81901		18.40783
41 Benzene	1.66684 0.96322	1.55738	1.30628	1.24561	1.20026	1.04366	AVRG		1.28332		19.89043
42 Carbon tetrachloride	1.18792 0.82825	1.03387	0.90746	0.90947	0.97370	0.88935	AVRG		0.96143		12.39730
43 Cyclohexane	1.07601 0.64080	0.91058	0.77836	0.73070	0.74722	0.67560	AVRG		0.79418		19.02982
44 Tert Amyl Methyl Ether	31891 3726348	45171	86535	153521	1427929	2623961	QUAD	0.01662	1.28707	-0.08901	0.99981
46 2,2,4-Trimethylpentane	3.52430 1.68932	2.87228	2.33141	2.28133	2.23772	1.90299	AVRG		2.40562		25.64798
47 Heptane	1.50320 0.85647	1.29994	1.16911	1.10734	1.02913	0.92052	AVRG		1.12653		19.81575

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 Last Edit : 30-Mar-2019 11:25 10airI.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
48 1,2-Dichloropropane	0.71906 0.43513	0.65729	0.49544	0.49371	0.50036	0.45111	AVRG		0.53602		20.19548
49 Trichloroethene	0.67539 0.42599	0.62809	0.53809	0.50864	0.50055	0.44346	AVRG		0.53146		17.25255
50 Methyl methacrylate	0.66983 0.38256	0.59496	0.44834	0.47099	0.44763	0.40149	AVRG		0.48797		21.59005
51 1,4-Dioxane	0.34844 0.21838	0.30603	0.27321	0.25314	0.27332	0.23885	AVRG		0.27305		15.91150
52 Bromodichloromethane	1.25260 0.84693	1.08671	0.95134	0.90532	1.00054	0.90918	AVRG		0.99323		13.87916
53 Methylcyclohexane	0.40359 0.27881	0.37955	0.33997	0.30411	0.32201	0.29411	AVRG		0.33173		13.80907
54 Methyl Isobutyl Ketone	1.92358 1.15444	1.53310	1.36180	1.35266	1.38622	1.24169	AVRG		1.42193		17.64587

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Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
55 cis-1,3-Dichloropropene	1.09127 0.67095	0.82740	0.76496	0.73992	0.78656	0.71779	AVRG		0.79984		17.23488
56 trans-1,3-Dichloropropene	0.90440 0.61923	0.70894	0.66554	0.64377	0.71758	0.64717	AVRG		0.70095		13.76116
57 Toluene	2.02964 1.12448	1.72634	1.44523	1.42771	1.38205	1.21667	AVRG		1.47887		20.87918
58 1,1,2-Trichloroethane	0.69699 0.42187	0.57215	0.49829	0.48453	0.49638	0.44440	AVRG		0.51637		17.95639
59 Methyl Butyl Ketone	2.05501 1.25420	1.85020	1.43722	1.50137	1.51730	1.34498	AVRG		1.56575		18.23473
60 n-Octane	2.28262 1.27095	1.81958	1.76091	1.60229	1.58343	1.36605	AVRG		1.66940		20.01183
61 Dibromochloromethane	0.85810 0.84705	0.86119	0.68187	0.68945	1.00405	0.88914	AVRG		0.83298		13.64232

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 Last Edit : 30-Mar-2019 11:25 10airI.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
62 1,2-Dibromoethane	1.32539 0.77173	1.07550	0.90562	0.88163	0.91009	0.81304	AVRG		0.95471		19.84095
63 Tetrachloroethene	0.90164 0.57648	0.89855	0.68099	0.68554	0.68014	0.60186	AVRG		0.71789		18.31265
65 Chlorobenzene	1.56193 0.98896	1.49570	1.25919	1.19406	1.20752	1.05020	AVRG		1.25108		16.97917
66 Ethyl Benzene	2.70380 1.64578	2.45354	2.21844	2.14034	2.10843	1.82135	AVRG		2.15595		16.58745
67 m&p-Xylene	2.11060 1.16355	1.99607	1.68952	1.62729	1.57837	1.32365	AVRG		1.64129		20.53745
68 n-Nonane	2.12277 1.32564	1.86845	1.68084	1.58301	1.64261	1.43493	AVRG		1.66546		16.00865
69 Bromoform	2380 1887114	4168	9468	23755	676660	1283276	QUAD	-0.01851	0.71037	-0.03853	0.99924

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Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
70 Styrene	1.40264 0.96433	1.20261	1.15442	1.12590	1.16260	1.02351	AVRG		1.14800		12.20535
71 o-Xylene	2.02118 1.33146	1.92394	1.73046	1.69458	1.64052	1.43552	AVRG		1.68252		14.58735
72 1,1,2,2-Tetrachloroethane	1.48000 0.96844	1.24431	1.12351	1.07144	1.17956	1.02821	AVRG		1.15650		14.68426
73 Isopropylbenzene	2.91791 1.69976	2.73192	2.30174	2.17770	2.21451	1.87599	AVRG		2.27422		19.04906
74 N-Propylbenzene	3.43945 2.08863	3.19143	2.93954	2.67267	2.85123	2.35016	AVRG		2.79045		16.73347
75 4-Ethyltoluene	2.41368 1.66211	2.32171	2.17384	2.06685	2.11336	1.83942	AVRG		2.08442		12.57500
76 1,3,5-Trimethylbenzene	2.12288 1.43338	2.09231	1.83656	1.74269	1.81138	1.55571	AVRG		1.79927		14.14293

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2019 07:49
 End Cal Date : 30-MAR-2019 10:33
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Last Edit : 30-Mar-2019 11:25 10airI.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
77 n-Decane	1.42258 1.00748	1.28269	1.22050	1.14070	1.23009	1.08987	AVRG		1.19913		11.31251
78 Tert-Butyl Benzene	2.26007 1.42043	2.14525	1.86236	1.83826	1.81024	1.54749	AVRG		1.84059		16.18754
79 1,2,4-Trimethylbenzene	2.31153 1.36462	2.07646	1.75427	1.75320	1.72515	1.50148	AVRG		1.78381		18.09054
80 Sec- Butylbenzene	3.17165 1.81444	3.05053	2.62386	2.50562	2.47900	2.06159	AVRG		2.52953		19.27350
81 1,3-Dichlorobenzene	1.24055 0.78314	1.07974	0.93357	0.90850	0.95722	0.83450	AVRG		0.96246		16.06219
82 Benzyl Chloride	1.01394 1.19379	0.91250	0.91242	0.96662	1.37623	1.27574	AVRG		1.09304		17.16403
83 1,4-Dichlorobenzene	1.12937 0.78359	1.04097	0.85065	0.88143	0.92763	0.82999	AVRG		0.92052		13.41760

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2019 07:49
 End Cal Date : 30-MAR-2019 10:33
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Last Edit : 30-Mar-2019 11:25 10airI.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
84 p-Isopropyltoluene	2.45040 1.51479	2.25276	2.06025	1.99677	2.00161	1.69640	AVRG		1.99614		15.81412
85 1,2,3-Trimethylbenzene	2.02844 1.33035	2.01038	1.75416	1.66547	1.70669	1.46437	AVRG		1.70855		15.11270
86 1,2-Dichlorobenzene	1.22950 0.75671	1.04206	0.94956	0.87910	0.91054	0.80777	AVRG		0.93932		16.83128
87 N-Butylbenzene	2.39582 1.49685	2.26101	1.98900	1.98952	1.99496	1.68952	AVRG		1.97381		15.61296
88 1,2-Dibromo-3-Chloropropane	0.35376 0.37677	0.32790	0.25998	0.28914	0.43430	0.39383	AVRG		0.34795		17.41324
89 1,2,4-Trichlorobenzene	0.54576 0.48197	0.56609	0.46089	0.51276	0.55340	0.51119	AVRG		0.51887		7.44993
90 Naphthalene	1.44584 1.12143	1.37956	1.17047	1.34997	1.43604	1.24282	AVRG		1.30659		9.89216

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2019 07:49
 End Cal Date : 30-MAR-2019 10:33
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Last Edit : 30-Mar-2019 11:25 10airI.i

Compound (all.sb)	0.1000000	0.2000000	0.5000000	1.0000	10.0000	20.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	30.0000										
	Level 7										
91 Hexachlorobutadiene	0.81457	0.71242	0.61577	0.58573	0.59647	0.53447					
	0.50357						AVRG		0.62329		17.19790

Pace Analytical Services, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-MAR-2019 07:49
End Cal Date : 30-MAR-2019 10:33
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
Last Edit : 30-Mar-2019 11:25 10airI.i

```
|Average %RSD Results. |
|=====|
|Calculated Average %RSD = 18.45194 |
|Maximum Average %RSD = 0.000e+000 |
|* Failed Average %RSD Test. |
|=====|
```

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Quad	Resp = b + m1*Amt + m2*Amt^2	Amount

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\033019.b\08903.D
 Lab Smp Id: CAL7
 Inj Date : 30-MAR-2019 07:49
 Operator : MJL Inst ID: 10airI.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Meth Date : 30-Mar-2019 11:29 10airI.i Quant Type: ISTD
 Cal Date : 30-MAR-2019 10:33 Cal File: 08909.D
 Als bottle: 3 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 1,1-Difluoroethane	65		3.019	3.019	(0.536)	762886	30.0000	23.5 (QM)
2 Chlorodifluoromethane	67		3.031	3.031	(0.539)	388885	30.0000	27.2 (QM)
3 Propylene	41		3.043	3.043	(0.541)	1363086	30.0000	23.6
4 Dichlorodifluoromethane	85		3.068	3.068	(0.545)	2904820	30.0000	20.1
5 Dichlorotetrafluoroethane	85		3.147	3.147	(0.559)	2204765	30.0000	20.9
6 Chloromethane	50		3.147	3.147	(0.559)	1391805	30.0000	22.3
7 Vinyl chloride	62		3.220	3.220	(0.572)	938077	30.0000	23.2
8 1,3-Butadiene	54		3.257	3.257	(0.579)	854559	30.0000	24.8 (Q)
9 Bromomethane	94		3.385	3.385	(0.601)	794827	30.0000	23.3
10 Chloroethane	64		3.434	3.434	(0.610)	422489	30.0000	22.9
11 Ethanol	45		3.440	3.440	(0.611)	2389540	150.000	103
12 Vinyl Bromide	106		3.543	3.543	(0.630)	773979	30.0000	24.2
13 Isopentane	43		3.556	3.556	(0.632)	1295962	30.0000	22.8
14 Freon 123	83		3.562	3.562	(0.633)	1809195	30.0000	23.1
15 Acrolein	56		3.617	3.617	(0.643)	1030231	75.0000	58.3
16 Trichlorofluoromethane	101		3.635	3.635	(0.646)	2671555	30.0000	21.6
17 Acetone	43		3.647	3.647	(0.648)	7438398	150.000	56.6 (A)
18 Isopropyl Alcohol	45		3.659	3.659	(0.650)	6367041	150.000	67.4
19 Tert Butyl Alcohol (TBA)	59		3.854	3.854	(0.685)	3069645	30.0000	23.6
20 Acrylonitrile	53		3.860	3.860	(0.686)	2774032	75.0000	55.5
21 1,1-Dichloroethene	61		3.866	3.866	(0.687)	2196824	30.0000	23.3
22 Methyl Acetate	43		3.897	3.897	(0.692)	3044878	30.0000	21.8
23 Freon 113	101		3.903	3.903	(0.693)	2303804	30.0000	22.8

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Methylene chloride	49		3.958	3.958	(0.703)	6152177	150.000	(a)
25 Allyl Chloride	76		3.970	3.970	(0.705)	546695	30.0000	22.6(Q)
26 Carbon Disulfide	76		4.080	4.080	(0.725)	3189570	30.0000	23.3
27 trans-1,2-dichloroethene	96		4.232	4.232	(0.752)	1207536	30.0000	24.0(Q)
28 Methyl Tert Butyl Ether	73		4.251	4.251	(0.755)	3390088	30.0000	22.9
29 Vinyl Acetate	43		4.348	4.348	(0.773)	4309752	30.0000	21.8
30 1,1-Dichloroethane	63		4.366	4.366	(0.776)	2363084	30.0000	23.7
31 Methyl Ethyl Ketone	72		4.513	4.513	(0.802)	652116	30.0000	21.5(QM)
32 n-Hexane	57		4.549	4.549	(0.808)	2144918	30.0000	22.3(Q)
33 Di-isopropyl Ether	45		4.561	4.561	(0.810)	5022467	30.0000	20.1
34 Ethyl Acetate	43		4.689	4.689	(0.833)	3795233	30.0000	22.0
35 cis-1,2-Dichloroethene	96		4.696	4.696	(0.834)	1233951	30.0000	22.8
36 Ethyl Tert-Butyl Ether	59		4.799	4.799	(0.853)	4430745	30.0000	22.8
37 Chloroform	83		4.811	4.811	(0.855)	2713953	30.0000	30.1(AQ)
38 Tetrahydrofuran	42		4.964	4.964	(0.882)	1920236	30.0000	25.3
39 1,1,1-Trichloroethane	97		5.220	5.220	(0.927)	2966619	30.0000	24.2
40 1,2-Dichloroethane	62		5.232	5.232	(0.930)	2399692	30.0000	24.3
41 Benzene	78		5.464	5.464	(0.971)	3489586	30.0000	22.5
42 Carbon tetrachloride	117		5.482	5.482	(0.974)	3000591	30.0000	25.8
43 Cyclohexane	56		5.482	5.482	(0.974)	2321509	30.0000	24.2
44 Tert Amyl Methyl Ether	73		5.604	5.604	(0.996)	3726348	30.0000	30.1(AQ)
* 45 1,4-Difluorobenzene	114		5.628	5.628	(1.000)	1207607	10.0000	
46 2,2,4-Trimethylpentane	57		5.775	5.775	(1.026)	6120100	30.0000	21.1
47 Heptane	43		5.909	5.909	(1.050)	3102842	30.0000	22.8
48 1,2-Dichloropropane	63		5.988	5.988	(1.064)	1576400	30.0000	24.4
49 Trichloroethene	130		6.012	6.012	(1.068)	1543293	30.0000	24.0
50 Methyl methacrylate	69		6.086	6.086	(1.081)	1385932	30.0000	23.5
51 1,4-Dioxane	88		6.092	6.092	(1.082)	1977890	75.0000	60.0
52 Bromodichloromethane	83		6.116	6.116	(1.087)	3068272	30.0000	25.6
53 Methylcyclohexane	98		6.457	6.457	(1.147)	1010066	30.0000	25.2(Q)
54 Methyl Isobutyl Ketone	43		6.573	6.573	(1.168)	4182346	30.0000	24.4
55 cis-1,3-Dichloropropene	75		6.640	6.640	(1.180)	2430729	30.0000	25.2
56 trans-1,3-Dichloropropene	75		7.055	7.055	(1.253)	2243344	30.0000	26.5
57 Toluene	91		7.201	7.201	(1.279)	4073777	30.0000	22.8
58 1,1,2-Trichloroethane	97		7.213	7.213	(1.282)	1528363	30.0000	24.5
59 Methyl Butyl Ketone	43		7.433	7.433	(0.855)	4004611	30.0000	24.0
60 n-Octane	43		7.634	7.634	(0.879)	4058082	30.0000	22.8
61 Dibromochloromethane	129		7.738	7.738	(0.891)	2704589	30.0000	30.5(A)
62 1,2-Dibromoethane	107		7.969	7.969	(0.917)	2464085	30.0000	24.2
63 Tetrachloroethene	166		8.036	8.036	(0.925)	1840668	30.0000	24.1
* 64 Chlorobenzene - d5	117		8.689	8.689	(1.000)	1064317	10.0000	
65 Chlorobenzene	112		8.731	8.731	(1.005)	3157712	30.0000	23.7
66 Ethyl Benzene	91		8.969	8.969	(1.032)	5254902	30.0000	22.9
67 m&p-Xylene	91		9.109	9.109	(1.048)	7430293	60.0000	42.5
68 n-Nonane	43		9.481	9.481	(1.091)	4232708	30.0000	23.9
69 Bromoform	173		9.506	9.506	(1.094)	1887114	30.0000	30.2(AQ)
70 Styrene	104		9.524	9.524	(1.096)	3079067	30.0000	25.2
71 o-Xylene	91		9.591	9.591	(1.104)	4251295	30.0000	23.7
72 1,1,2,2-Tetrachloroethane	83		9.853	9.853	(1.134)	3092193	30.0000	25.1
73 Isopropylbenzene	105		10.146	10.146	(1.168)	5427246	30.0000	22.4
74 N-Propylbenzene	91		10.694	10.694	(1.231)	6668889	30.0000	22.5
75 4-Ethyltoluene	105		10.859	10.859	(1.250)	5307035	30.0000	23.9
76 1,3,5-Trimethylbenzene	105		10.938	10.938	(1.259)	4576726	30.0000	23.9
77 n-Decane	57		11.280	11.280	(2.004)	3649928	30.0000	25.2

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
78 Tert-Butyl Benzene	119		11.402	11.402	(1.312)	4535349	30.0000	23.2
79 1,2,4-Trimethylbenzene	105		11.414	11.414	(1.314)	4357158	30.0000	22.9
80 Sec- Butylbenzene	105		11.682	11.682	(1.344)	5793424	30.0000	21.5
81 1,3-Dichlorobenzene	146		11.676	11.676	(1.344)	2500527	30.0000	24.4
82 Benzyl Chloride	91		11.749	11.749	(1.352)	3811710	30.0000	32.8 (A)
83 1,4-Dichlorobenzene	146		11.767	11.767	(1.354)	2501968	30.0000	25.5
84 p-Isopropyltoluene	119		11.847	11.847	(1.363)	4836641	30.0000	22.8
85 1,2,3-Trimethylbenzene	105		11.889	11.889	(1.368)	4247741	30.0000	23.4
86 1,2-Dichlorobenzene	146		12.121	12.121	(1.395)	2416124	30.0000	24.2
87 N-Butylbenzene	91		12.279	12.279	(1.413)	4779361	30.0000	22.8
88 1,2-Dibromo-3-Chloropropane	157		12.700	12.700	(1.462)	1203015	30.0000	32.5 (A)
89 1,2,4-Trichlorobenzene	180		13.736	13.736	(1.581)	1538894	30.0000	27.9
90 Naphthalene	128		13.846	13.846	(1.594)	3580684	30.0000	25.7
91 Hexachlorobutadiene	225		14.047	14.047	(1.617)	1607876	30.0000	24.2

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08903.D
Report Date: 30-Mar-2019 11:29

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airI.i
Lab File ID: 08903.D
Lab Smp Id: CAL7
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
Misc Info:

Calibration Date: 30-MAR-2019
Calibration Time: 08:43
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	1148342	689005	1607679	1207607	5.16
64 Chlorobenzene - d	994820	596892	1392748	1064317	6.99

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.63	5.30	5.96	5.63	-0.00
64 Chlorobenzene - d	8.68	8.35	9.01	8.69	0.07

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

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08903.D

Date : 30-MAR-2019 07:49

Client ID:

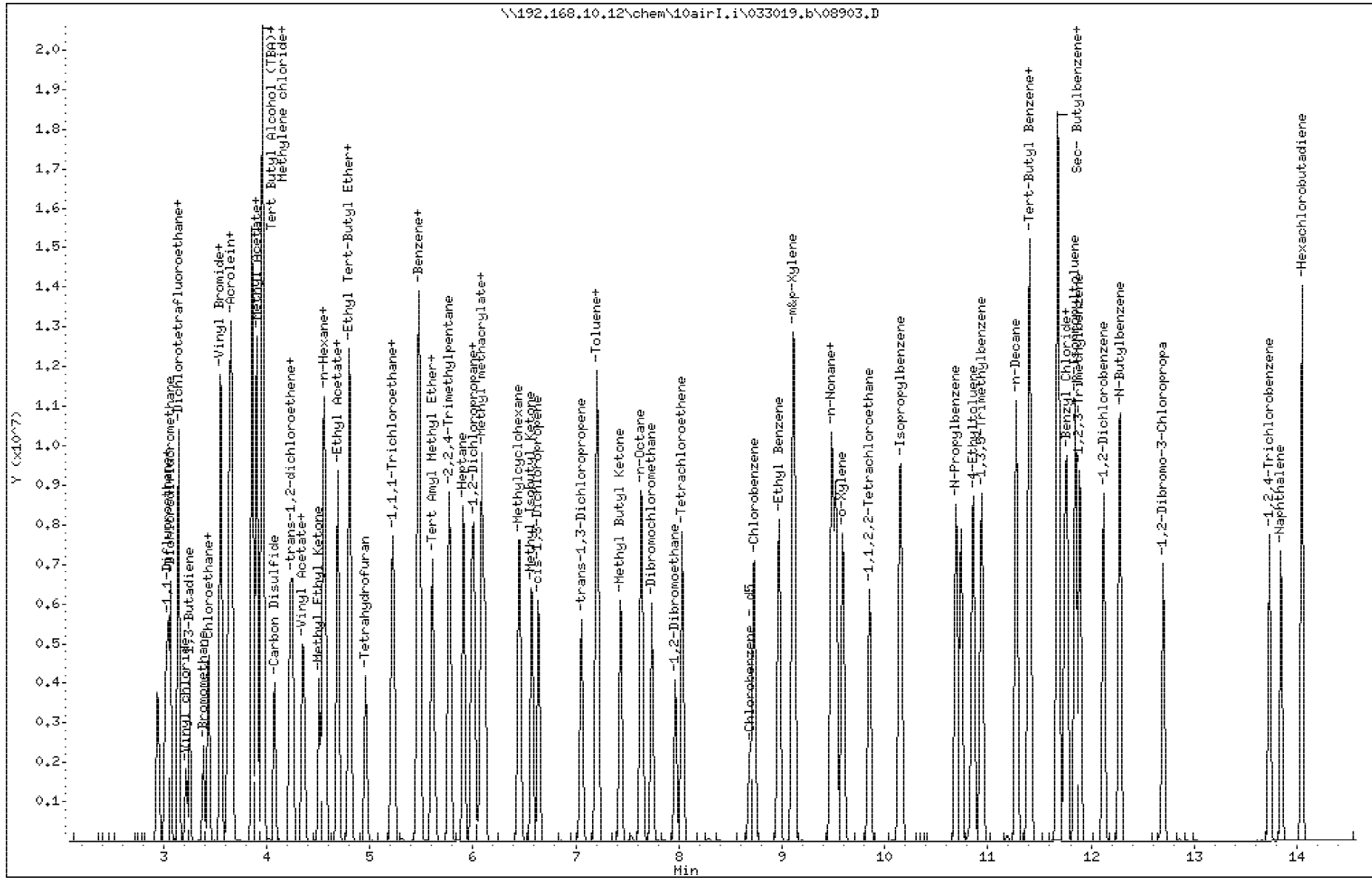
Sample Info:

Column phase: DB-5 SN:USD449717H

Instrument: 10air1.i

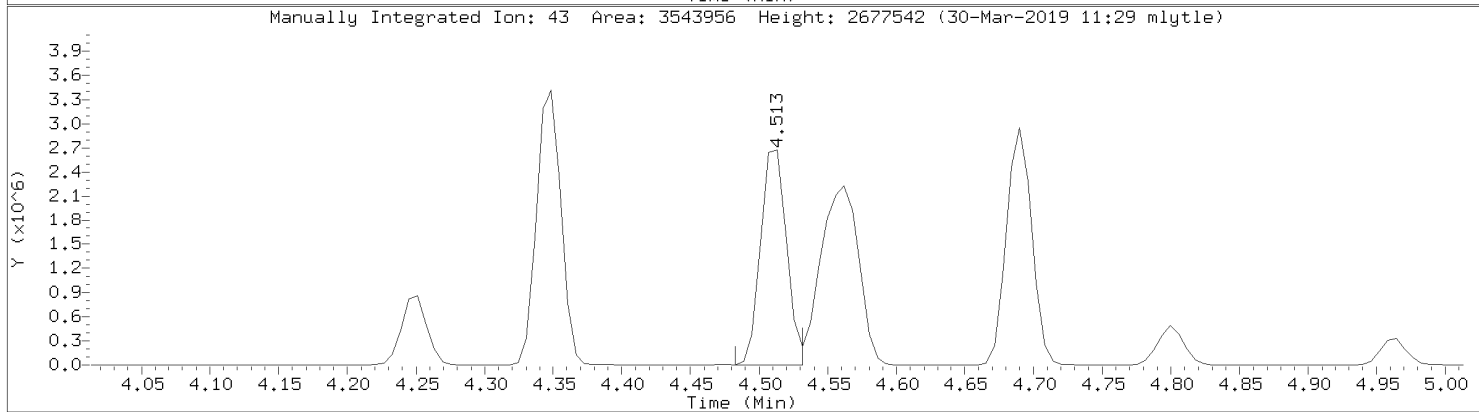
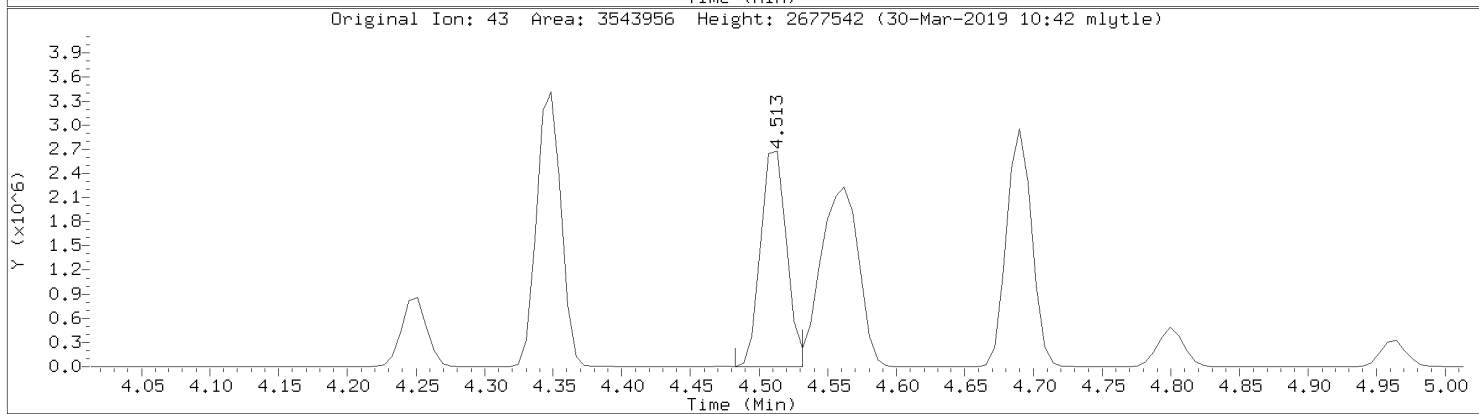
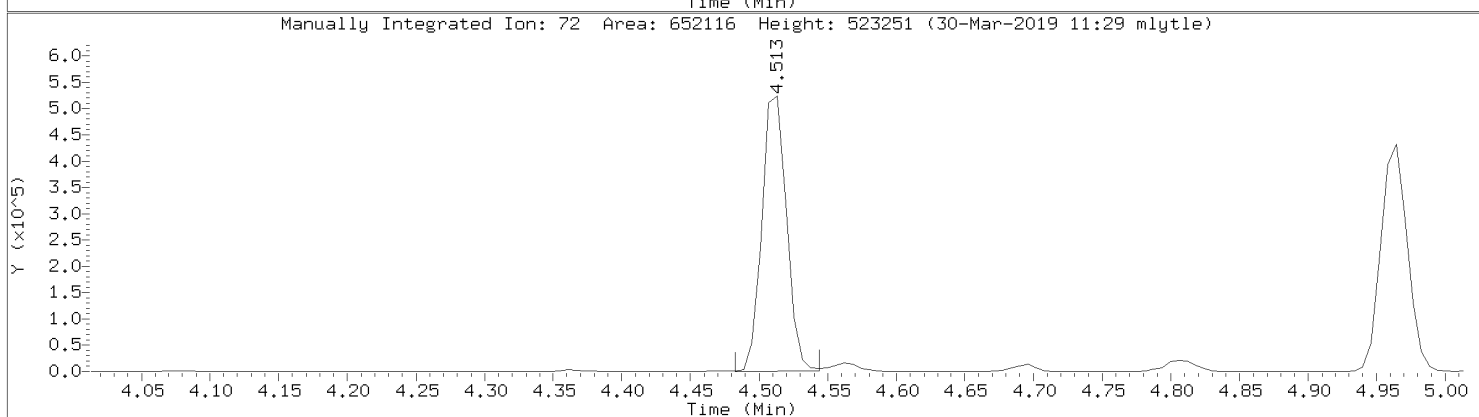
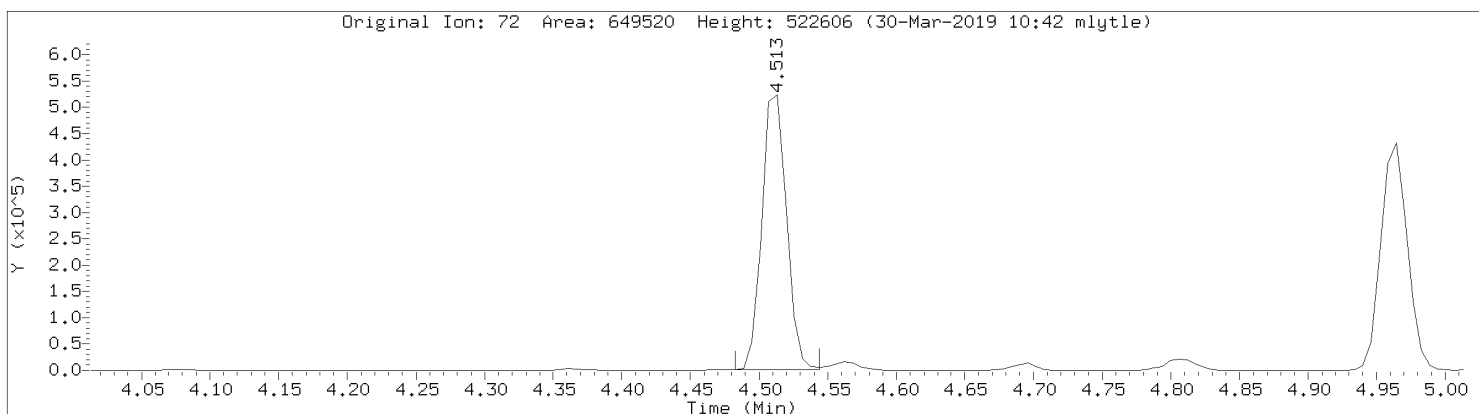
Operator: MJL

Column diameter: 0.32



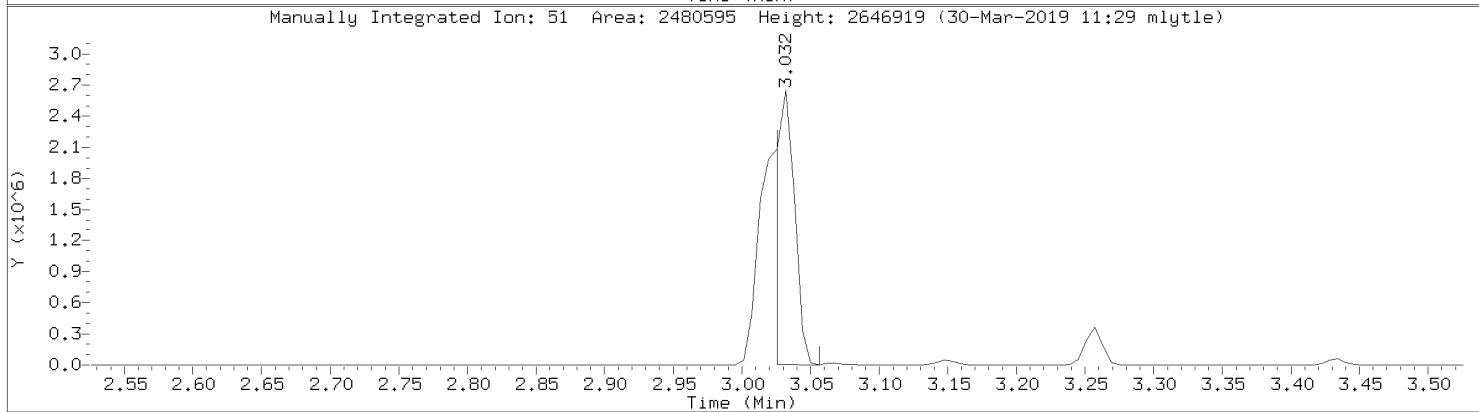
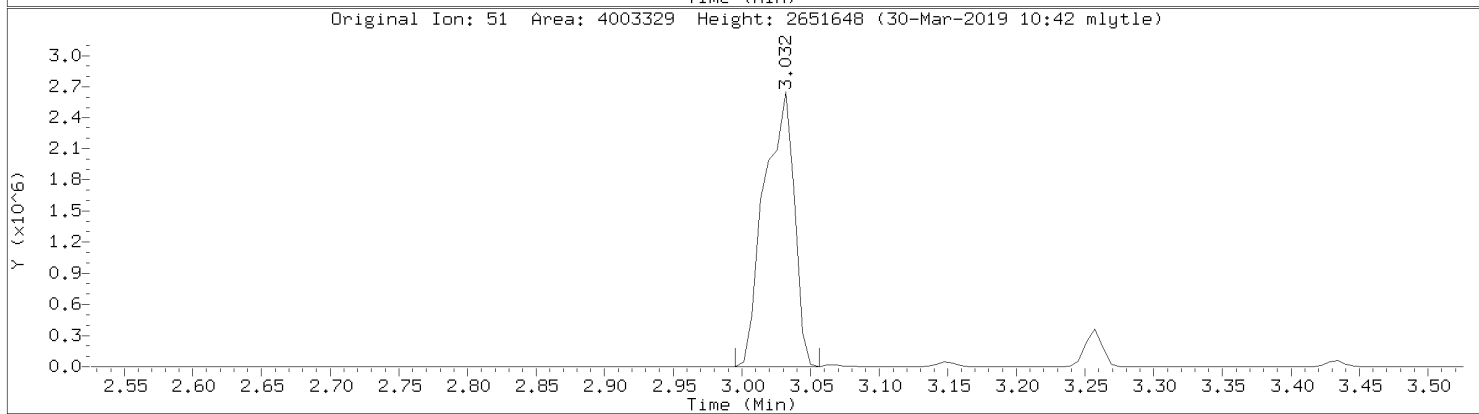
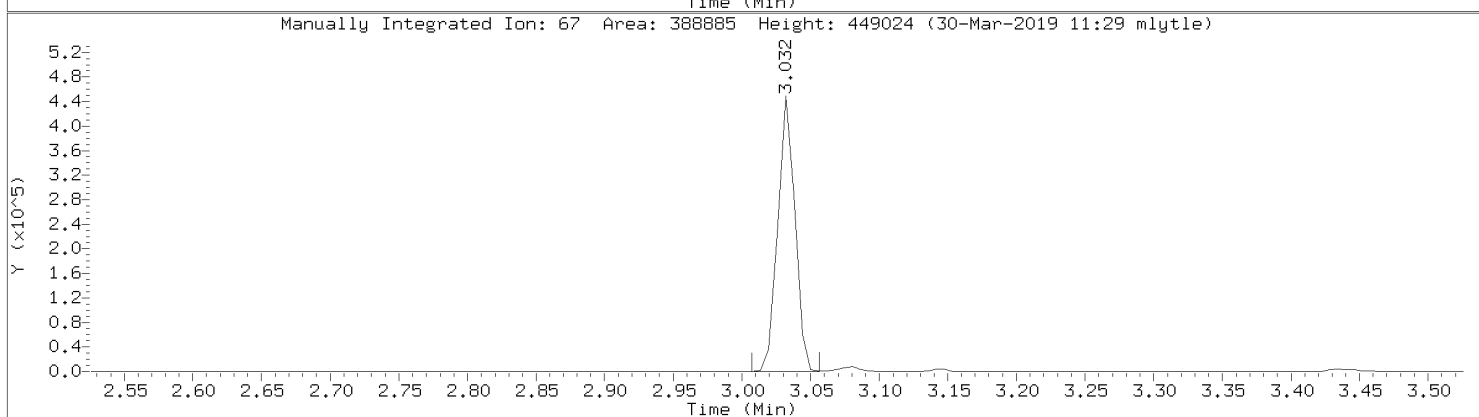
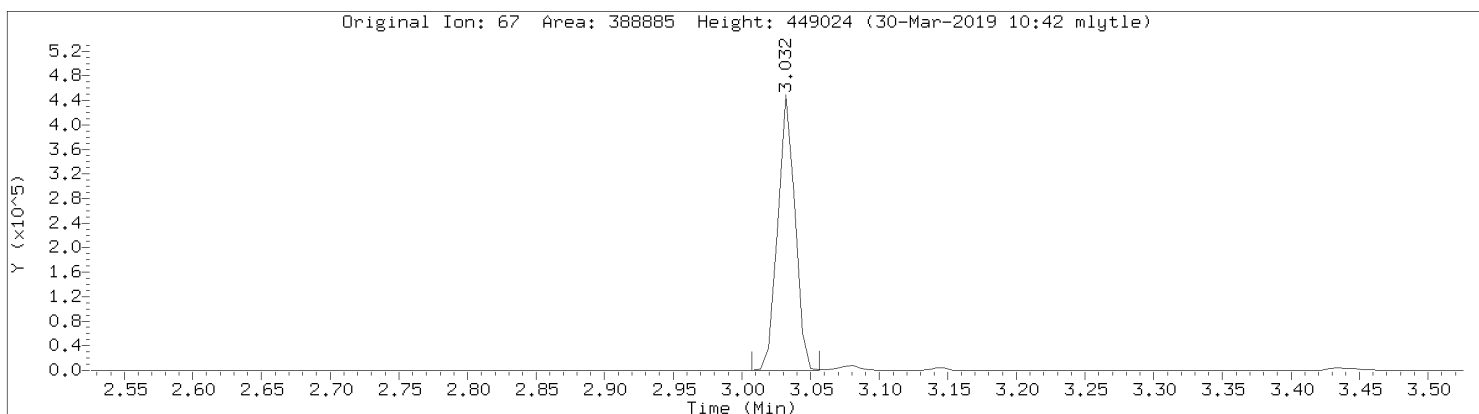
Data File: \\192.168.10.12\chem\10airI.i\033019.b\08903.D
Injection Date: 30-MAR-2019 07:49
Instrument: 10airI.i
Lab Sample ID: CAL7

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3

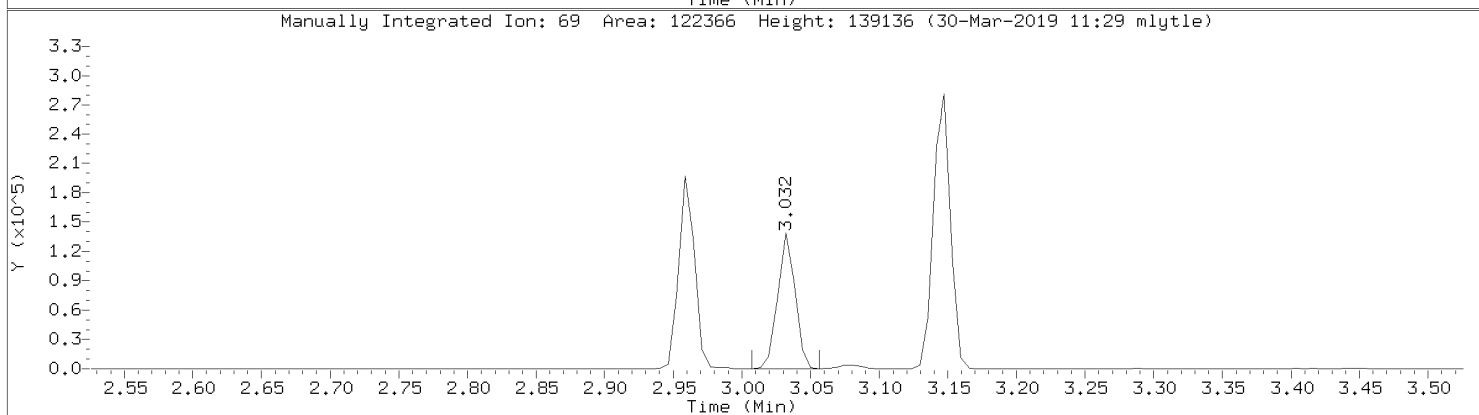
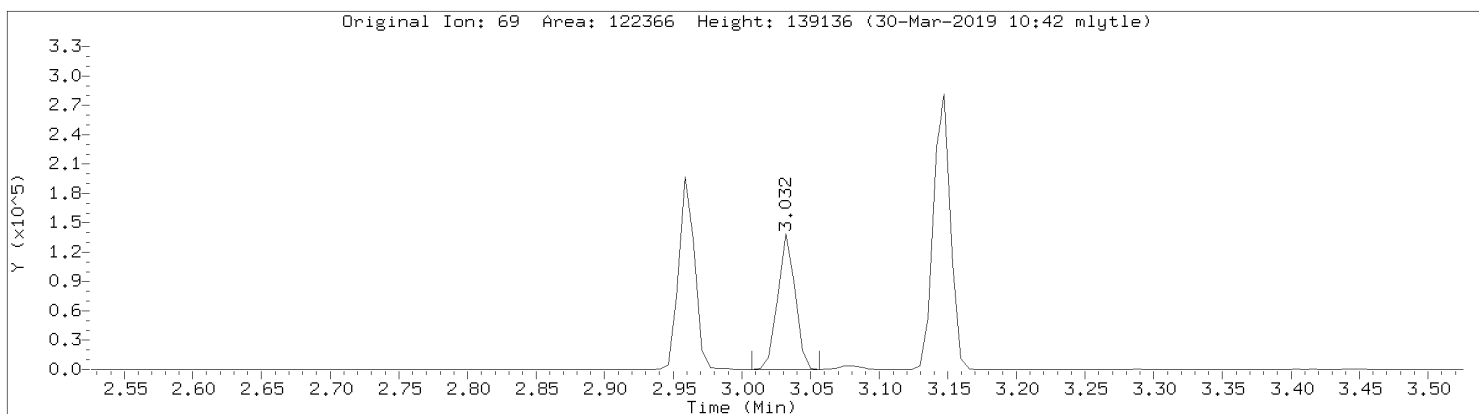


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08903.D
Injection Date: 30-MAR-2019 07:49
Instrument: 10airI.i
Lab Sample ID: CAL7

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

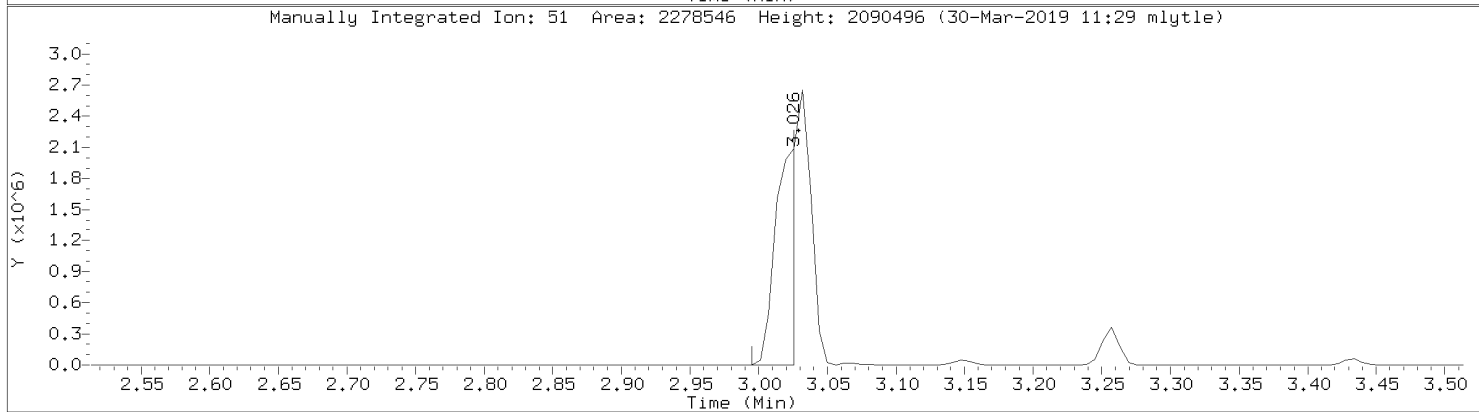
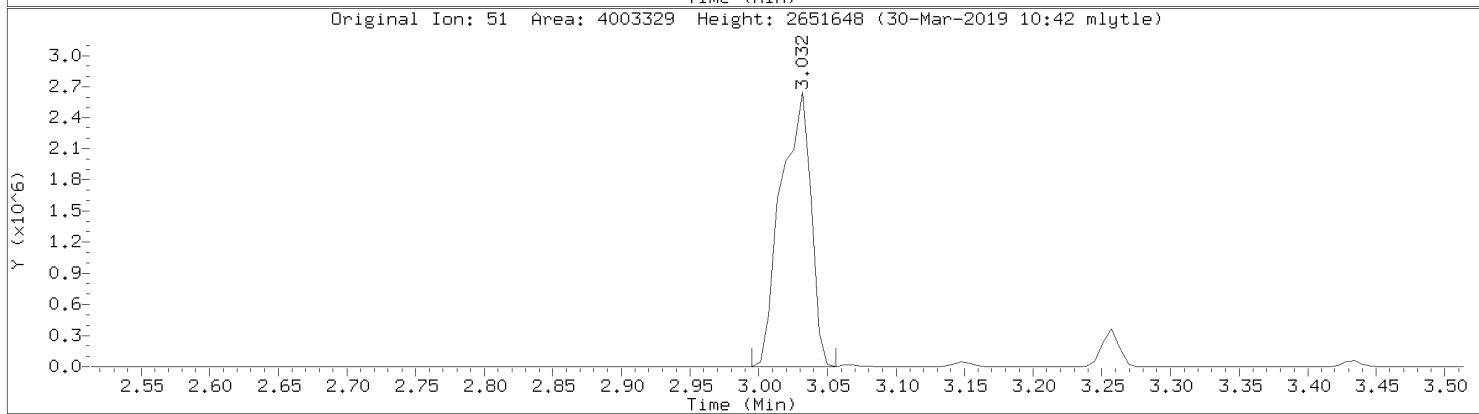
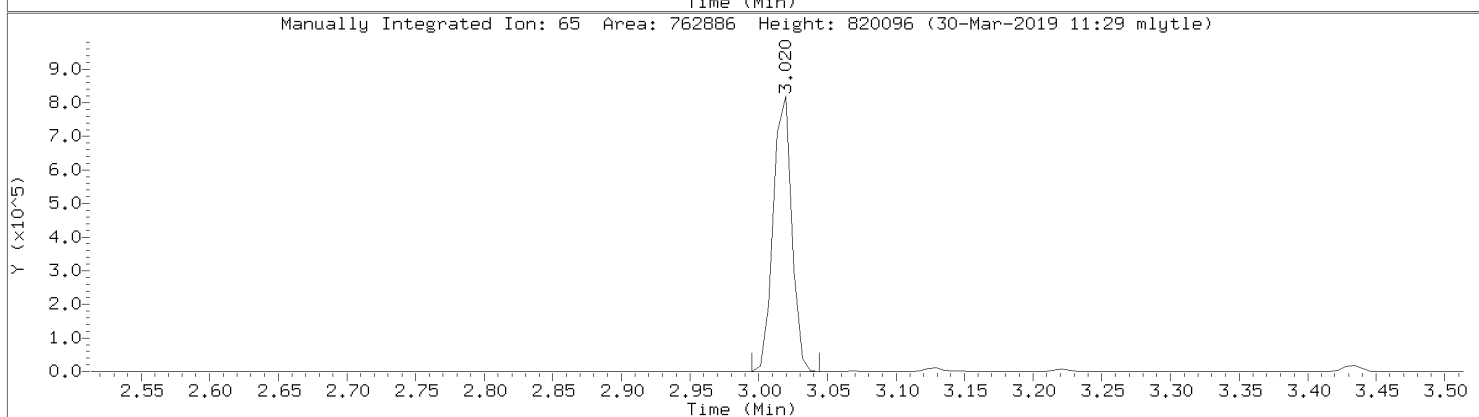
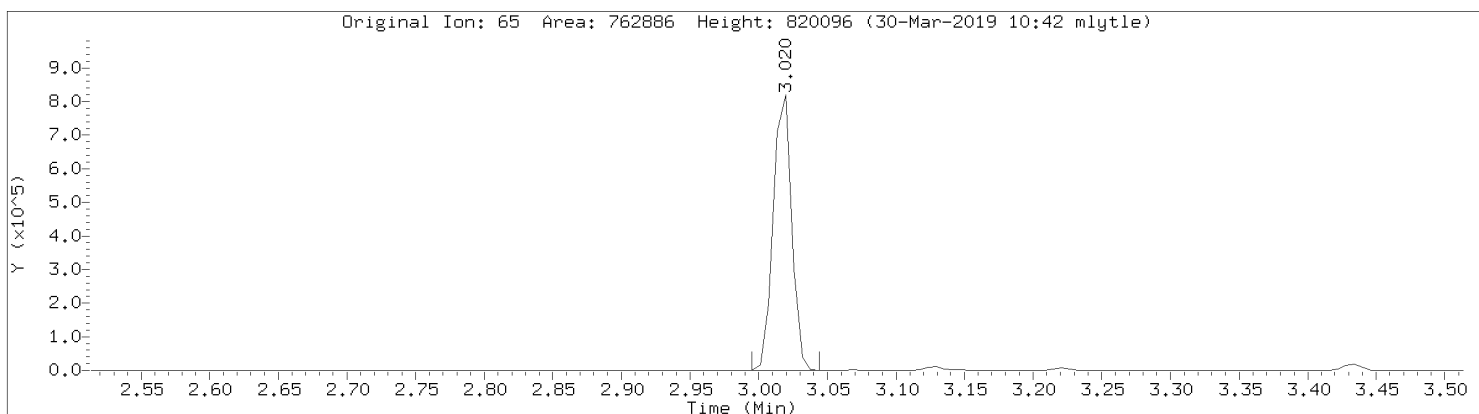


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Injection Date: 30-MAR-2019 07:49
Instrument: 10airI.i
Lab Sample ID: CAL7

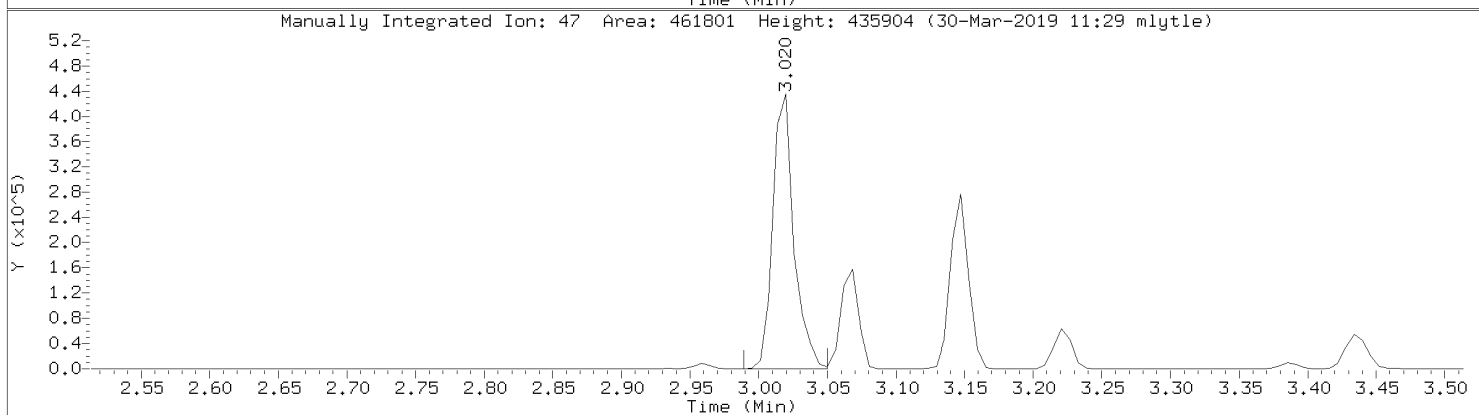
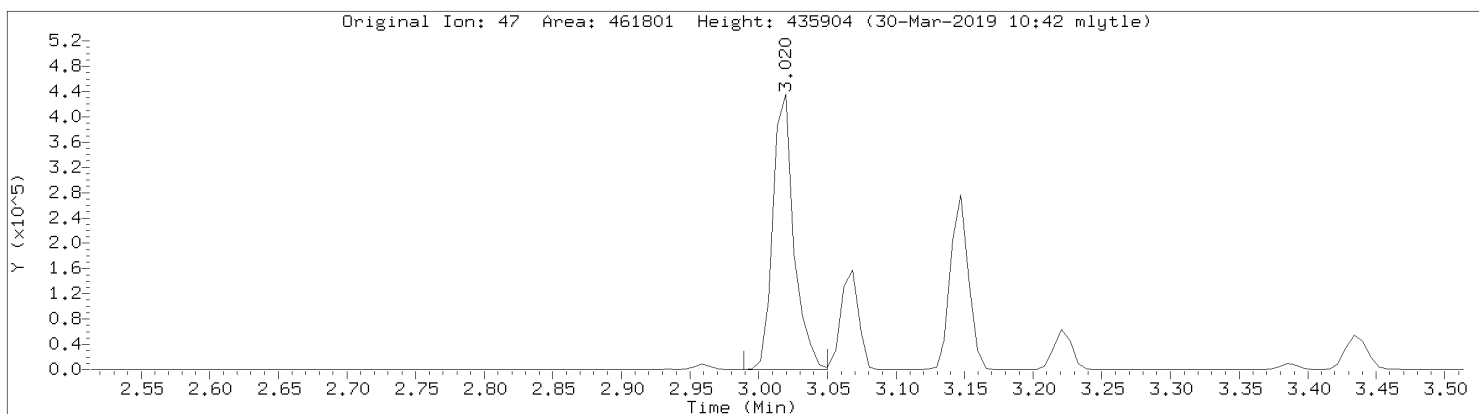


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08903.D
Injection Date: 30-MAR-2019 07:49
Instrument: 10airI.i
Lab Sample ID: CAL7

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08903.D
Injection Date: 30-MAR-2019 07:49
Instrument: 10airI.i
Lab Sample ID: CAL7



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\033019.b\08904.D
 Lab Smp Id: CAL6
 Inj Date : 30-MAR-2019 08:16
 Operator : MJL Inst ID: 10airI.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Meth Date : 30-Mar-2019 11:29 10airI.i Quant Type: ISTD
 Cal Date : 30-MAR-2019 07:49 Cal File: 08903.D
 Als bottle: 4 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 1,1-Difluoroethane	65		3.019	3.019	(0.536)	513745	20.0000	16.1 (M)
2 Chlorodifluoromethane	67		3.031	3.031	(0.539)	265907	20.0000	18.9 (QM)
3 Propylene	41		3.043	3.043	(0.541)	928916	20.0000	16.3
4 Dichlorodifluoromethane	85		3.068	3.068	(0.545)	2213057	20.0000	15.5
5 Dichlorotetrafluoroethane	85		3.147	3.147	(0.559)	1692286	20.0000	16.3
6 Chloromethane	50		3.147	3.147	(0.559)	1033765	20.0000	16.8
7 Vinyl chloride	62		3.220	3.220	(0.572)	687032	20.0000	17.3
8 1,3-Butadiene	54		3.257	3.257	(0.579)	625148	20.0000	18.4
9 Bromomethane	94		3.391	3.391	(0.603)	570333	20.0000	17.0
10 Chloroethane	64		3.434	3.434	(0.610)	305066	20.0000	16.8
11 Ethanol	45		3.440	3.440	(0.611)	1831549	100.000	79.9
12 Vinyl Bromide	106		3.549	3.549	(0.631)	551370	20.0000	17.5
13 Isopentane	43		3.562	3.562	(0.633)	963685	20.0000	17.3
14 Freon 123	83		3.562	3.562	(0.633)	1336760	20.0000	17.3
15 Acrolein	56		3.617	3.617	(0.643)	748967	50.0000	43.0
16 Trichlorofluoromethane	101		3.635	3.635	(0.646)	2036129	20.0000	16.8
17 Acetone	43		3.647	3.647	(0.648)	6524581	100.000	50.4 (A)
18 Isopropyl Alcohol	45		3.665	3.665	(0.651)	5584124	100.000	60.0
19 Tert Butyl Alcohol (TBA)	59		3.860	3.860	(0.686)	2207385	20.0000	17.2
20 Acrylonitrile	53		3.866	3.866	(0.687)	2003443	50.0000	40.7
21 1,1-Dichloroethene	61		3.866	3.866	(0.687)	1587546	20.0000	17.1
22 Methyl Acetate	43		3.897	3.897	(0.692)	2217718	20.0000	16.1
23 Freon 113	101		3.903	3.903	(0.693)	1657308	20.0000	16.7

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Methylene chloride	49		3.958	3.958	(0.703)	5159766	100.000	94.9	
25 Allyl Chloride	76		3.970	3.970	(0.705)	389201	20.0000	16.3	
26 Carbon Disulfide	76		4.080	4.080	(0.725)	2305940	20.0000	17.1	
27 trans-1,2-dichloroethene	96		4.232	4.232	(0.752)	836770	20.0000	16.9	
28 Methyl Tert Butyl Ether	73		4.251	4.251	(0.755)	2455239	20.0000	16.9	
29 Vinyl Acetate	43		4.348	4.348	(0.773)	3248276	20.0000	16.7	
30 1,1-Dichloroethane	63		4.366	4.366	(0.776)	1656702	20.0000	16.9	
31 Methyl Ethyl Ketone	72		4.513	4.513	(0.802)	454026	20.0000	15.2	
32 n-Hexane	57		4.549	4.549	(0.808)	1510673	20.0000	16.0	
33 Di-isopropyl Ether	45		4.568	4.568	(0.812)	3763334	20.0000	15.3	
34 Ethyl Acetate	43		4.689	4.689	(0.833)	2766829	20.0000	16.3	
35 cis-1,2-Dichloroethene	96		4.696	4.696	(0.834)	867802	20.0000	16.3	
36 Ethyl Tert-Butyl Ether	59		4.799	4.799	(0.853)	3216785	20.0000	16.8	
37 Chloroform	83		4.811	4.811	(0.855)	1925311	20.0000	19.7	
38 Tetrahydrofuran	42		4.964	4.964	(0.882)	1333477	20.0000	17.8	
39 1,1,1-Trichloroethane	97		5.220	5.220	(0.927)	2085621	20.0000	17.3	
40 1,2-Dichloroethane	62		5.232	5.232	(0.930)	1676874	20.0000	17.2	
41 Benzene	78		5.464	5.464	(0.971)	2481355	20.0000	16.3	
42 Carbon tetrachloride	117		5.482	5.482	(0.974)	2114460	20.0000	18.5	
43 Cyclohexane	56		5.482	5.482	(0.974)	1606271	20.0000	17.0	
44 Tert Amyl Methyl Ether	73		5.604	5.604	(0.996)	2623961	20.0000	19.7	
* 45 1,4-Difluorobenzene	114		5.628	5.628	(1.000)	1188770	10.0000		
46 2,2,4-Trimethylpentane	57		5.775	5.775	(1.026)	4524432	20.0000	15.8	
47 Heptane	43		5.909	5.909	(1.050)	2188574	20.0000	16.3	
48 1,2-Dichloropropane	63		5.994	5.994	(1.065)	1072523	20.0000	16.8	
49 Trichloroethene	130		6.012	6.012	(1.068)	1054344	20.0000	16.7	
50 Methyl methacrylate	69		6.086	6.086	(1.081)	954569	20.0000	16.5	
51 1,4-Dioxane	88		6.092	6.092	(1.082)	1419692	50.0000	43.7	
52 Bromodichloromethane	83		6.116	6.116	(1.087)	2161608	20.0000	18.3	
53 Methylcyclohexane	98		6.457	6.457	(1.147)	699264	20.0000	17.7	
54 Methyl Isobutyl Ketone	43		6.573	6.573	(1.168)	2952166	20.0000	17.5	
55 cis-1,3-Dichloropropene	75		6.640	6.640	(1.180)	1706572	20.0000	17.9	
56 trans-1,3-Dichloropropene	75		7.055	7.055	(1.253)	1538682	20.0000	18.5	
57 Toluene	91		7.201	7.201	(1.279)	2892680	20.0000	16.5	
58 1,1,2-Trichloroethane	97		7.213	7.213	(1.282)	1056580	20.0000	17.2	
59 Methyl Butyl Ketone	43		7.433	7.433	(0.855)	2817314	20.0000	17.2	
60 n-Octane	43		7.640	7.640	(0.879)	2861449	20.0000	16.4	
61 Dibromochloromethane	129		7.738	7.738	(0.891)	1862482	20.0000	21.3	
62 1,2-Dibromoethane	107		7.969	7.969	(0.917)	1703066	20.0000	17.0	
63 Tetrachloroethene	166		8.036	8.036	(0.925)	1260701	20.0000	16.8	
* 64 Chlorobenzene - d5	117		8.689	8.689	(1.000)	1047346	10.0000		
65 Chlorobenzene	112		8.731	8.731	(1.005)	2199849	20.0000	16.8	
66 Ethyl Benzene	91		8.969	8.969	(1.032)	3815159	20.0000	16.9	
67 m&p-Xylene	91		9.109	9.109	(1.048)	5545269	40.0000	32.3	
68 n-Nonane	43		9.481	9.481	(1.091)	3005732	20.0000	17.2	
69 Bromoform	173		9.512	9.512	(1.095)	1283276	20.0000	19.6	
70 Styrene	104		9.524	9.524	(1.096)	2143931	20.0000	17.8	
71 o-Xylene	91		9.591	9.591	(1.104)	3006976	20.0000	17.1	
72 1,1,2,2-Tetrachloroethane	83		9.853	9.853	(1.134)	2153792	20.0000	17.8	
73 Isopropylbenzene	105		10.146	10.146	(1.168)	3929613	20.0000	16.5	
74 N-Propylbenzene	91		10.694	10.694	(1.231)	4922862	20.0000	16.8	
75 4-Ethyltoluene	105		10.859	10.859	(1.250)	3853018	20.0000	17.6	
76 1,3,5-Trimethylbenzene	105		10.938	10.938	(1.259)	3258727	20.0000	17.3	
77 n-Decane	57		11.274	11.274	(2.003)	2591203	20.0000	18.2	

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
78 Tert-Butyl Benzene	119	11.395	11.395	(1.312)	3241512	20.0000	16.8
79 1,2,4-Trimethylbenzene	105	11.414	11.414	(1.314)	3145134	20.0000	16.8
80 Sec- Butylbenzene	105	11.682	11.682	(1.344)	4318391	20.0000	16.3
81 1,3-Dichlorobenzene	146	11.676	11.676	(1.344)	1748020	20.0000	17.3
82 Benzyl Chloride	91	11.743	11.743	(1.351)	2672276	20.0000	23.3
83 1,4-Dichlorobenzene	146	11.767	11.767	(1.354)	1738565	20.0000	18.0
84 p-Isopropyltoluene	119	11.847	11.847	(1.363)	3553433	20.0000	17.0
85 1,2,3-Trimethylbenzene	105	11.889	11.889	(1.368)	3067402	20.0000	17.1
86 1,2-Dichlorobenzene	146	12.121	12.121	(1.395)	1692022	20.0000	17.2
87 N-Butylbenzene	91	12.279	12.279	(1.413)	3539016	20.0000	17.1
88 1,2-Dibromo-3-Chloropropane	157	12.700	12.700	(1.462)	824961	20.0000	22.6
89 1,2,4-Trichlorobenzene	180	13.736	13.736	(1.581)	1070788	20.0000	19.7
90 Naphthalene	128	13.852	13.852	(1.594)	2603316	20.0000	19.0
91 Hexachlorobutadiene	225	14.053	14.053	(1.617)	1119543	20.0000	17.1

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08904.D
Report Date: 30-Mar-2019 11:29

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airI.i
Lab File ID: 08904.D
Lab Smp Id: CAL6
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
Misc Info:

Calibration Date: 30-MAR-2019
Calibration Time: 08:43

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	1148342	689005	1607679	1188770	3.52
64 Chlorobenzene - d	994820	596892	1392748	1047346	5.28

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.63	5.30	5.96	5.63	-0.00
64 Chlorobenzene - d	8.68	8.35	9.01	8.69	0.07

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

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08904.D

Date : 30-MAR-2019 08:16

Client ID:

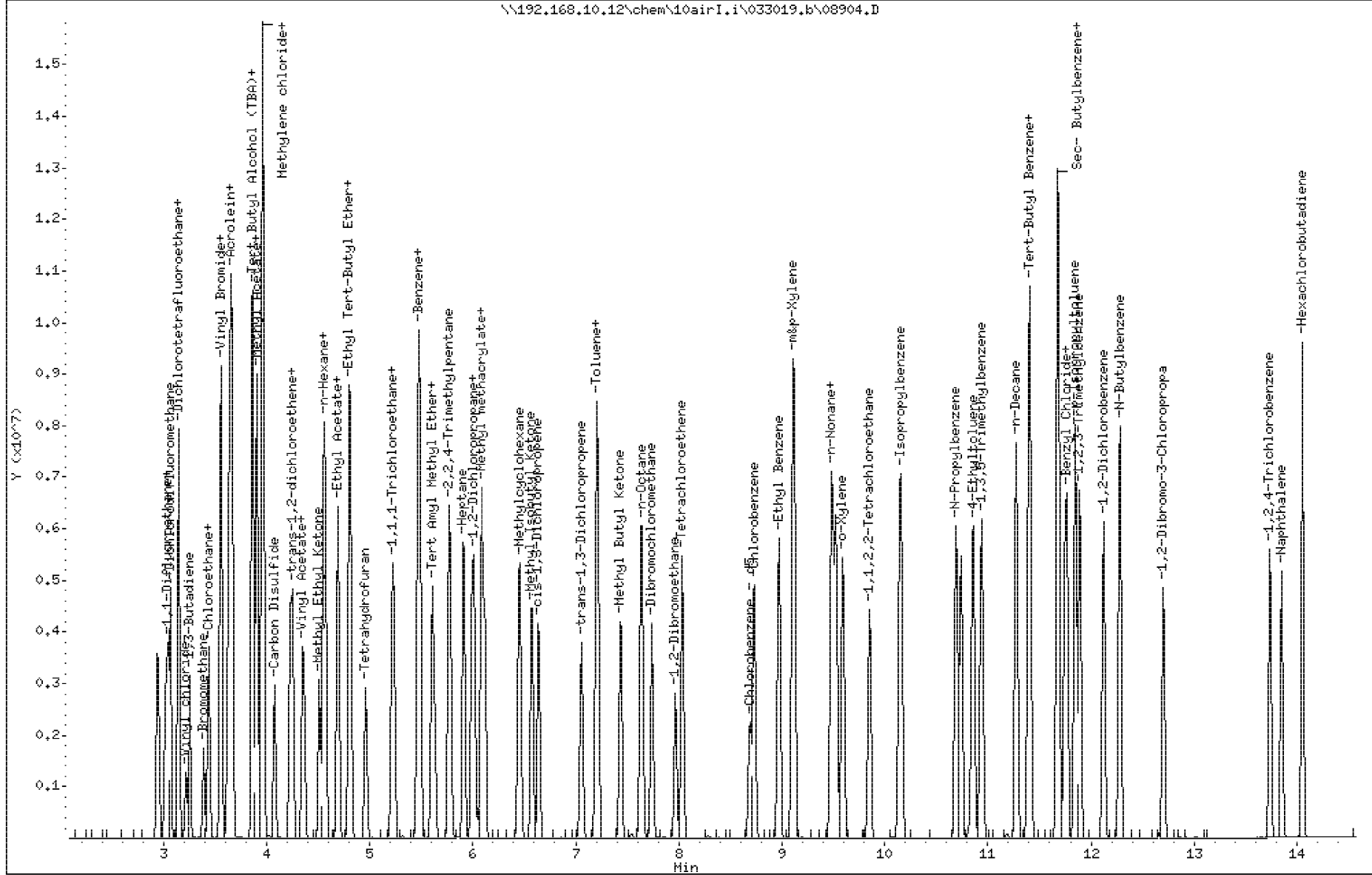
Sample Info:

Column phase: DB-5 SN:USD449717H

Instrument: 10air1.i

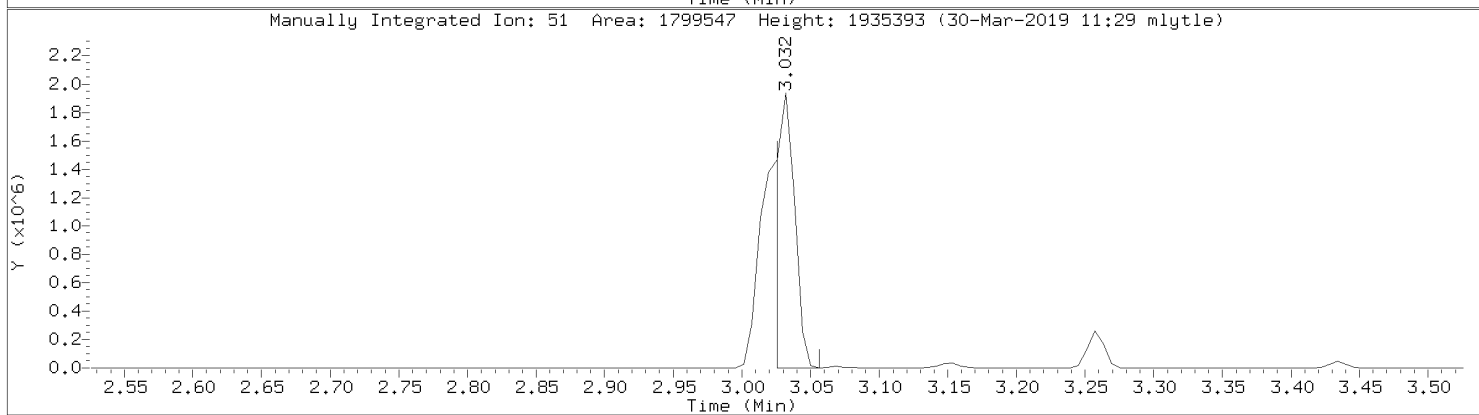
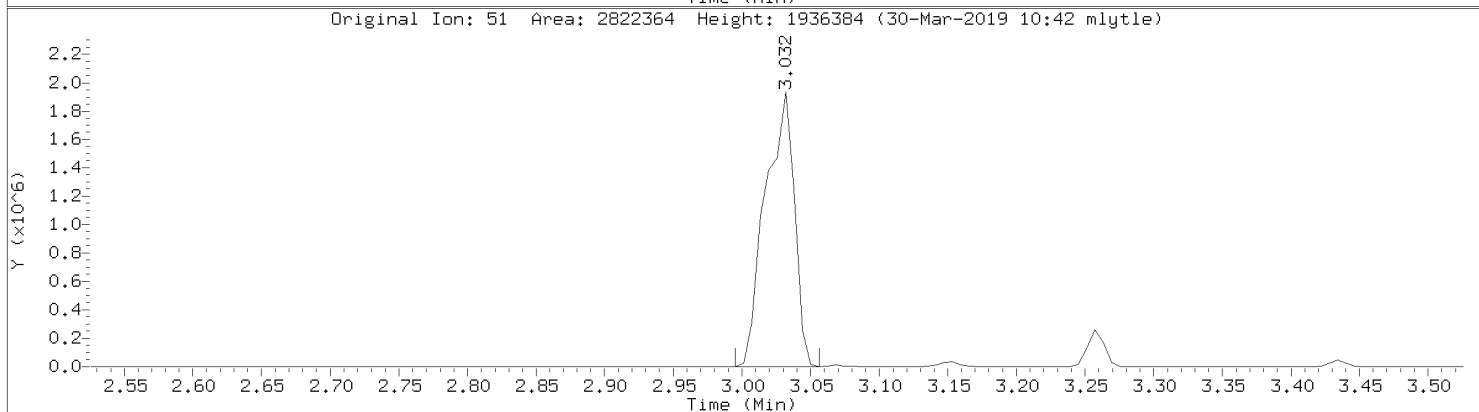
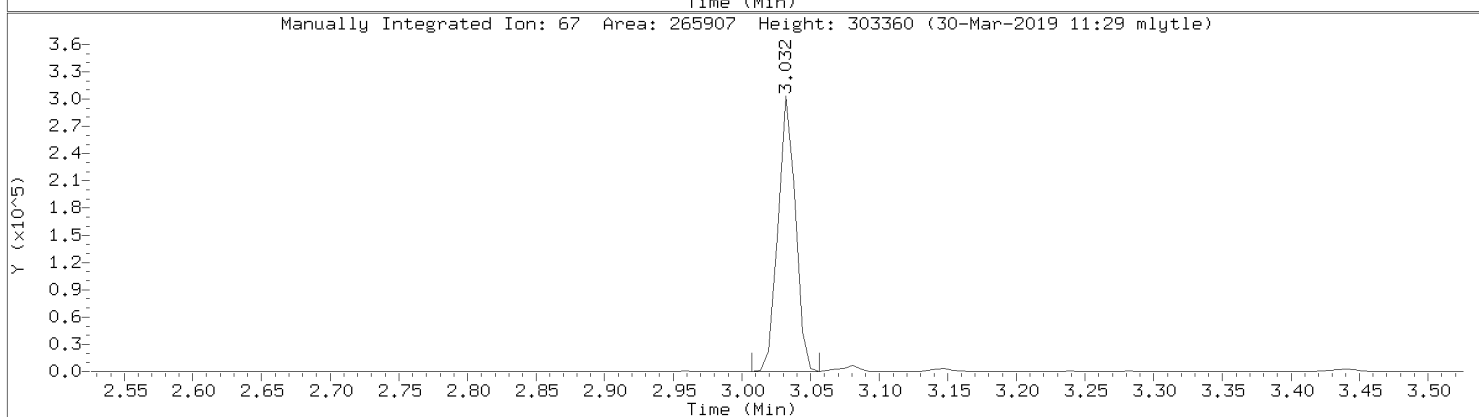
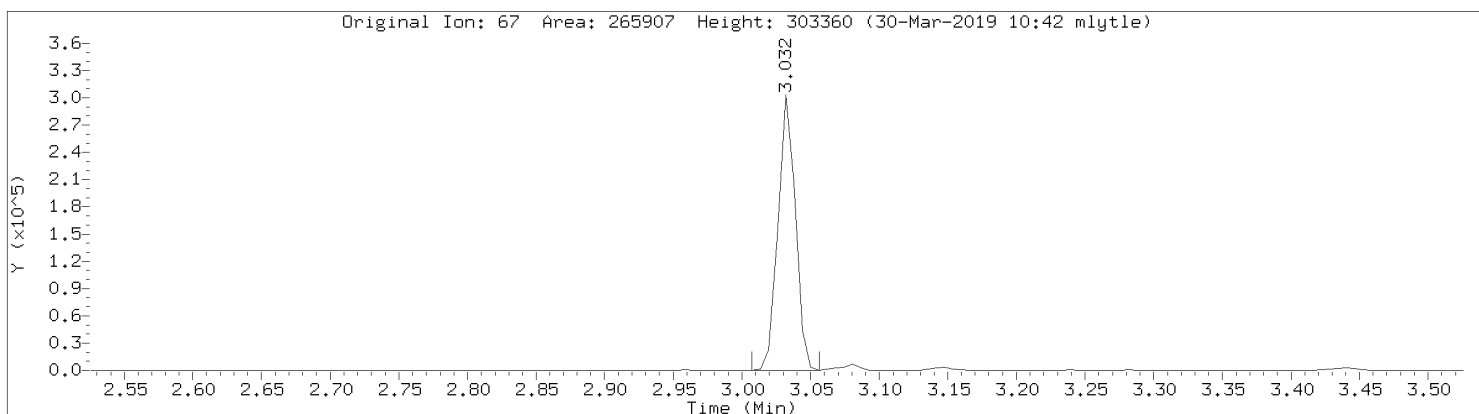
Operator: MJL

Column diameter: 0.32

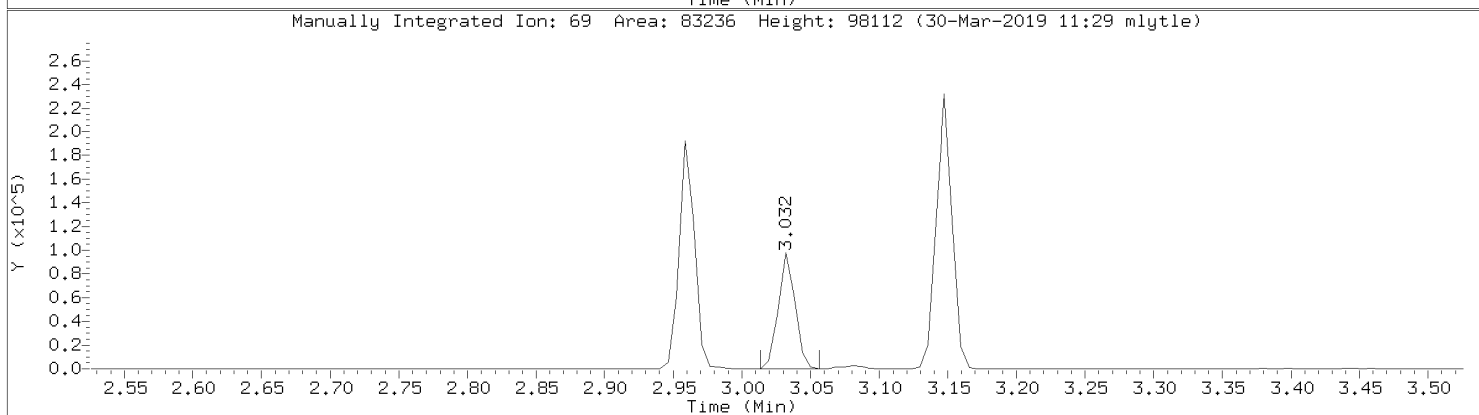
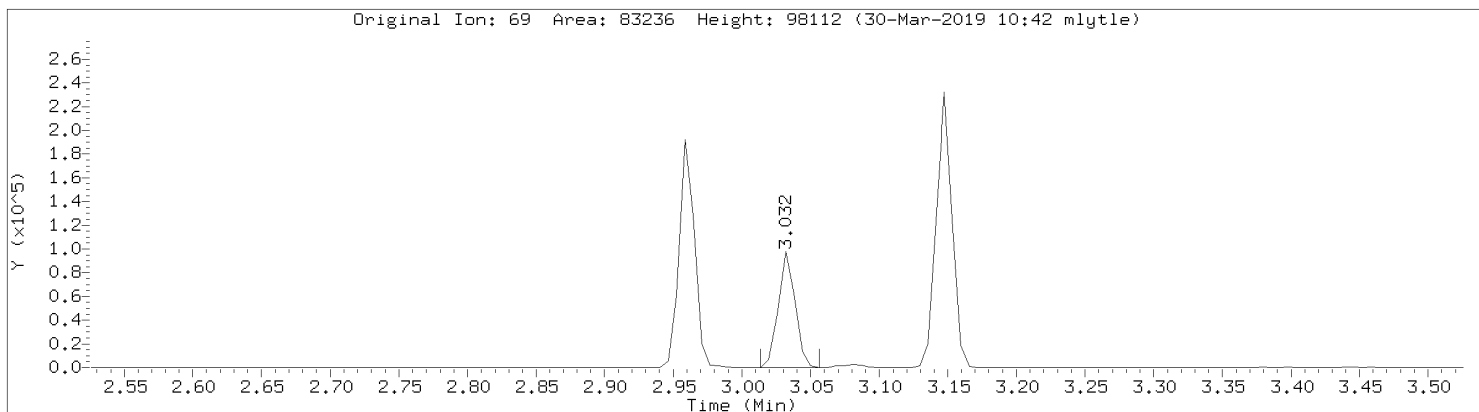


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08904.D
Injection Date: 30-MAR-2019 08:16
Instrument: 10airI.i
Lab Sample ID: CAL6

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

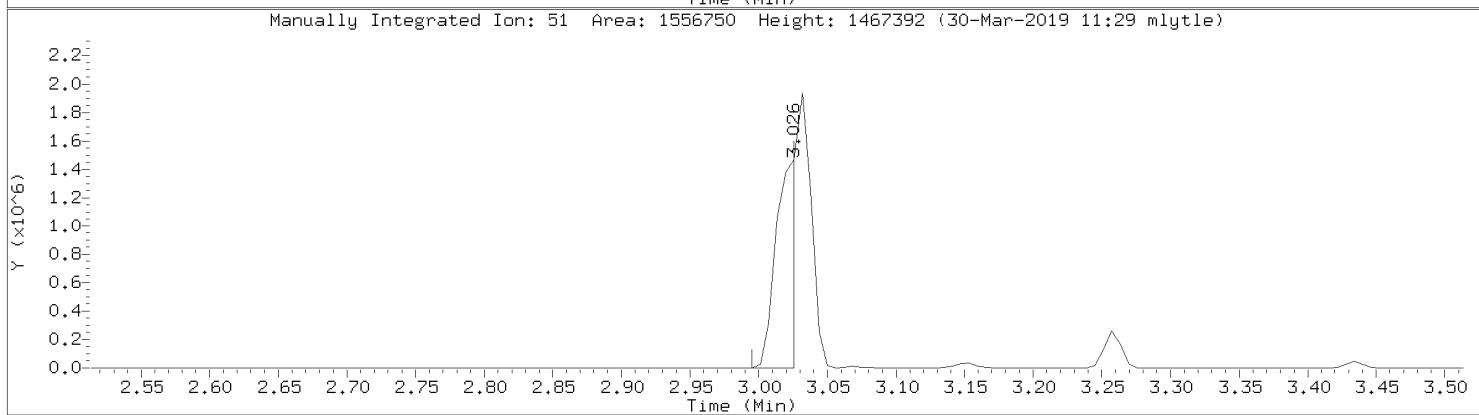
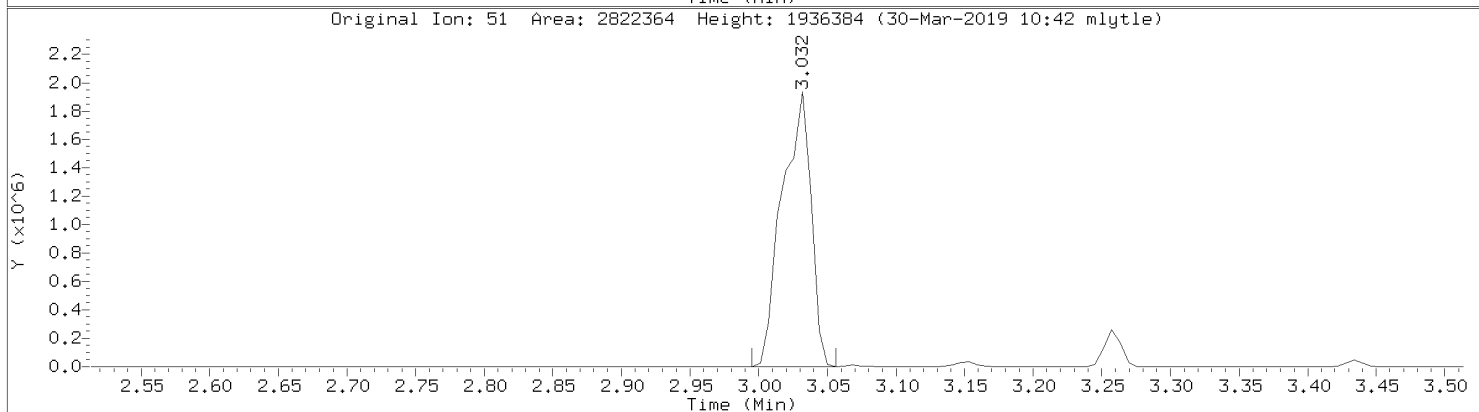
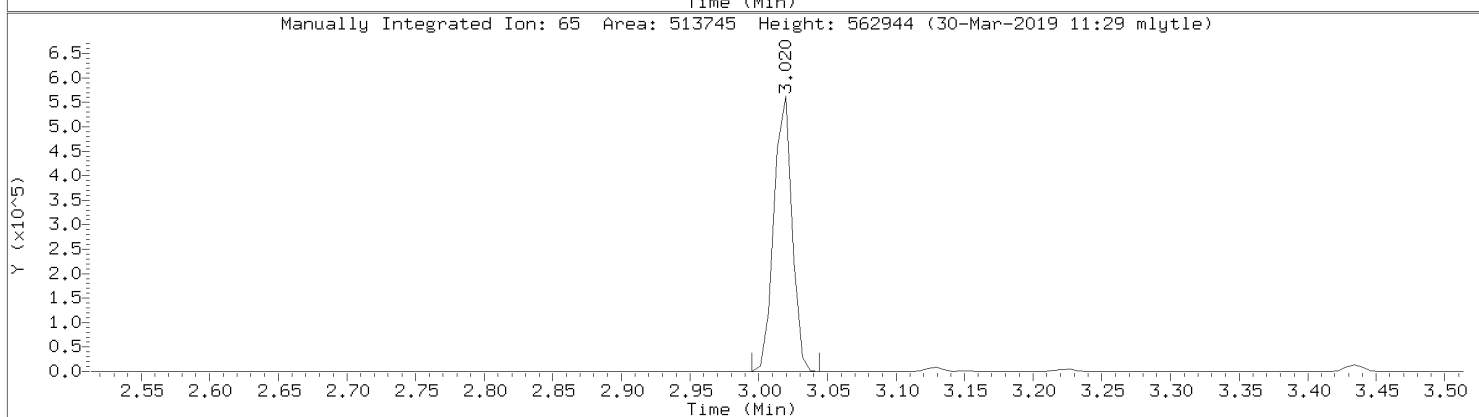
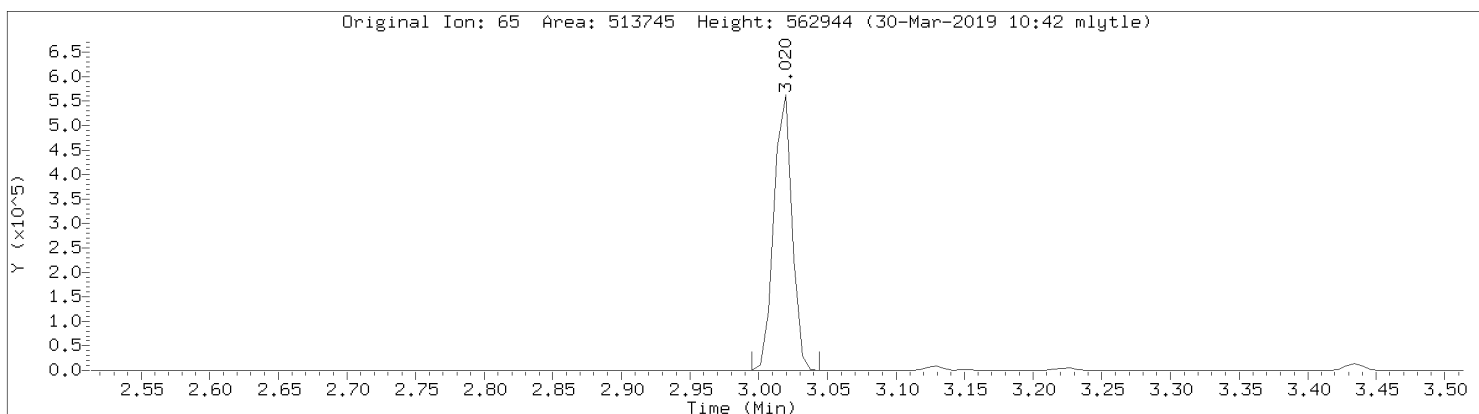


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08904.D
Injection Date: 30-MAR-2019 08:16
Instrument: 10airI.i
Lab Sample ID: CAL6

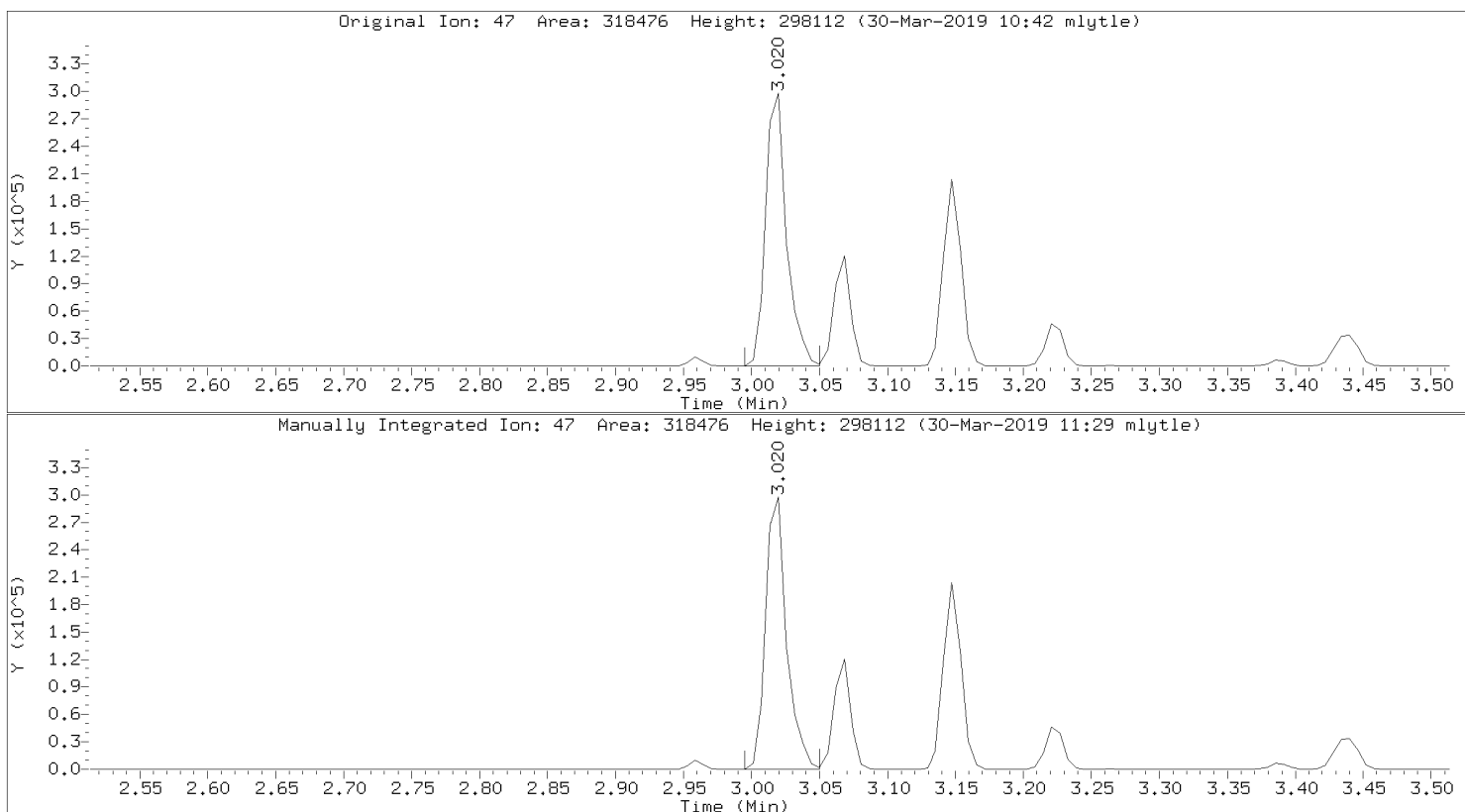


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08904.D
Injection Date: 30-MAR-2019 08:16
Instrument: 10airI.i
Lab Sample ID: CAL6

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08904.D
Injection Date: 30-MAR-2019 08:16
Instrument: 10airI.i
Lab Sample ID: CAL6



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\033019.b\08905.D
 Lab Smp Id: CAL5
 Inj Date : 30-MAR-2019 08:43
 Operator : MJL Inst ID: 10airI.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Meth Date : 30-Mar-2019 11:29 10airI.i Quant Type: ISTD
 Cal Date : 30-MAR-2019 08:16 Cal File: 08904.D
 Als bottle: 5 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 1,1-Difluoroethane	65		3.019	3.019	(0.536)	276718	10.0000	8.98 (M)
2 Chlorodifluoromethane	67		3.031	3.031	(0.539)	138597	10.0000	10.2 (QM)
3 Propylene	41		3.044	3.044	(0.541)	504531	10.0000	9.18
4 Dichlorodifluoromethane	85		3.068	3.068	(0.545)	1240587	10.0000	9.02
5 Dichlorotetrafluoroethane	85		3.147	3.147	(0.559)	898054	10.0000	8.93
6 Chloromethane	50		3.147	3.147	(0.559)	529965	10.0000	8.93
7 Vinyl chloride	62		3.220	3.220	(0.572)	347488	10.0000	9.04
8 1,3-Butadiene	54		3.257	3.257	(0.579)	310039	10.0000	9.46
9 Bromomethane	94		3.385	3.385	(0.601)	298547	10.0000	9.22
10 Chloroethane	64		3.434	3.434	(0.610)	154535	10.0000	8.82
11 Ethanol	45		3.440	3.440	(0.611)	961864	50.0000	43.4
12 Vinyl Bromide	106		3.543	3.543	(0.630)	294354	10.0000	9.69
13 Isopentane	43		3.556	3.556	(0.632)	497255	10.0000	9.22
14 Freon 123	83		3.562	3.562	(0.633)	711465	10.0000	9.54
15 Acrolein	56		3.617	3.617	(0.643)	391177	25.0000	23.3
16 Trichlorofluoromethane	101		3.635	3.635	(0.646)	1084564	10.0000	9.24
17 Acetone	43		3.647	3.647	(0.648)	4250490	50.0000	34.0
18 Isopropyl Alcohol	45		3.659	3.659	(0.650)	3751733	50.0000	41.8
19 Tert Butyl Alcohol (TBA)	59		3.854	3.854	(0.685)	1191841	10.0000	9.62
20 Acrylonitrile	53		3.860	3.860	(0.686)	1099020	25.0000	23.1
21 1,1-Dichloroethene	61		3.867	3.867	(0.687)	848973	10.0000	9.47
22 Methyl Acetate	43		3.897	3.897	(0.692)	1224400	10.0000	9.21
23 Freon 113	101		3.903	3.903	(0.693)	894864	10.0000	9.33

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Methylene chloride	49		3.958	3.958	(0.703)	3340484	50.0000	52.8
25 Allyl Chloride	76		3.970	3.970	(0.705)	210575	10.0000	9.16
26 Carbon Disulfide	76		4.080	4.080	(0.725)	1269575	10.0000	9.76
27 trans-1,2-dichloroethene	96		4.232	4.232	(0.752)	454589	10.0000	9.51
28 Methyl Tert Butyl Ether	73		4.251	4.251	(0.755)	1353530	10.0000	9.63
29 Vinyl Acetate	43		4.348	4.348	(0.773)	1817867	10.0000	9.69
30 1,1-Dichloroethane	63		4.366	4.366	(0.776)	903435	10.0000	9.53
31 Methyl Ethyl Ketone	72		4.507	4.507	(0.801)	238377	10.0000	8.25(Q)
32 n-Hexane	57		4.549	4.549	(0.808)	811172	10.0000	8.88
33 Di-isopropyl Ether	45		4.562	4.562	(0.810)	2138885	10.0000	8.99
34 Ethyl Acetate	43		4.690	4.690	(0.833)	1516865	10.0000	9.25
35 cis-1,2-Dichloroethene	96		4.690	4.690	(0.833)	469778	10.0000	9.11
36 Ethyl Tert-Butyl Ether	59		4.799	4.799	(0.853)	1756452	10.0000	9.50
37 Chloroform	83		4.811	4.811	(0.855)	1051837	10.0000	10.3
38 Tetrahydrofuran	42		4.964	4.964	(0.882)	714354	10.0000	9.88
39 1,1,1-Trichloroethane	97		5.220	5.220	(0.927)	1122107	10.0000	9.63
40 1,2-Dichloroethane	62		5.232	5.232	(0.930)	900151	10.0000	9.57
41 Benzene	78		5.464	5.464	(0.971)	1378314	10.0000	9.35
42 Carbon tetrachloride	117		5.482	5.482	(0.974)	1118137	10.0000	10.1
43 Cyclohexane	56		5.482	5.482	(0.974)	858068	10.0000	9.41
44 Tert Amyl Methyl Ether	73		5.604	5.604	(0.996)	1427929	10.0000	10.3
* 45 1,4-Difluorobenzene	114		5.628	5.628	(1.000)	1148342	10.0000	
46 2,2,4-Trimethylpentane	57		5.775	5.775	(1.026)	2569672	10.0000	9.30
47 Heptane	43		5.909	5.909	(1.050)	1181795	10.0000	9.14
48 1,2-Dichloropropane	63		5.988	5.988	(1.064)	574586	10.0000	9.33
49 Trichloroethene	130		6.006	6.006	(1.067)	574797	10.0000	9.42
50 Methyl methacrylate	69		6.086	6.086	(1.081)	514037	10.0000	9.17
51 1,4-Dioxane	88		6.086	6.086	(1.081)	784671	25.0000	25.0
52 Bromodichloromethane	83		6.116	6.116	(1.087)	1148960	10.0000	10.1
53 Methylcyclohexane	98		6.451	6.451	(1.146)	369777	10.0000	9.71
54 Methyl Isobutyl Ketone	43		6.573	6.573	(1.168)	1591859	10.0000	9.75
55 cis-1,3-Dichloropropene	75		6.640	6.640	(1.180)	903242	10.0000	9.83
56 trans-1,3-Dichloropropene	75		7.055	7.055	(1.253)	824028	10.0000	10.2
57 Toluene	91		7.201	7.201	(1.279)	1587064	10.0000	9.35
58 1,1,2-Trichloroethane	97		7.207	7.207	(1.281)	570013	10.0000	9.61
59 Methyl Butyl Ketone	43		7.433	7.433	(0.856)	1509441	10.0000	9.69
60 n-Octane	43		7.634	7.634	(0.879)	1575225	10.0000	9.48
61 Dibromochloromethane	129		7.738	7.738	(0.891)	998848	10.0000	12.1
62 1,2-Dibromoethane	107		7.963	7.963	(0.917)	905372	10.0000	9.53
63 Tetrachloroethene	166		8.030	8.030	(0.925)	676620	10.0000	9.47
* 64 Chlorobenzene - d5	117		8.683	8.683	(1.000)	994820	10.0000	
65 Chlorobenzene	112		8.725	8.725	(1.005)	1201263	10.0000	9.65
66 Ethyl Benzene	91		8.969	8.969	(1.033)	2097504	10.0000	9.78
67 m&p-Xylene	91		9.109	9.109	(1.049)	3140394	20.0000	19.2
68 n-Nonane	43		9.481	9.481	(1.092)	1634102	10.0000	9.86
69 Bromoform	173		9.506	9.506	(1.095)	676660	10.0000	10.4
70 Styrene	104		9.524	9.524	(1.097)	1156578	10.0000	10.1
71 o-Xylene	91		9.591	9.591	(1.105)	1632022	10.0000	9.75
72 1,1,2,2-Tetrachloroethane	83		9.847	9.847	(1.134)	1173445	10.0000	10.2
73 Isopropylbenzene	105		10.146	10.146	(1.169)	2203042	10.0000	9.74
74 N-Propylbenzene	91		10.694	10.694	(1.232)	2836462	10.0000	10.2
75 4-Ethyltoluene	105		10.853	10.853	(1.250)	2102408	10.0000	10.1
76 1,3,5-Trimethylbenzene	105		10.938	10.938	(1.260)	1801998	10.0000	10.1
77 n-Decane	57		11.274	11.274	(2.003)	1412568	10.0000	10.3

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
78 Tert-Butyl Benzene	119	11.396	11.396	(1.312)	1800867	10.0000	9.84
79 1,2,4-Trimethylbenzene	105	11.408	11.408	(1.314)	1716217	10.0000	9.67
80 Sec- Butylbenzene	105	11.676	11.676	(1.345)	2466158	10.0000	9.80
81 1,3-Dichlorobenzene	146	11.676	11.676	(1.345)	952260	10.0000	9.95
82 Benzyl Chloride	91	11.743	11.743	(1.352)	1369106	10.0000	12.6
83 1,4-Dichlorobenzene	146	11.761	11.761	(1.355)	922829	10.0000	10.1
84 p-Isopropyltoluene	119	11.841	11.841	(1.364)	1991239	10.0000	10.0
85 1,2,3-Trimethylbenzene	105	11.889	11.889	(1.369)	1697850	10.0000	9.99
86 1,2-Dichlorobenzene	146	12.121	12.121	(1.396)	905820	10.0000	9.69
87 N-Butylbenzene	91	12.273	12.273	(1.414)	1984622	10.0000	10.1
88 1,2-Dibromo-3-Chloropropane	157	12.700	12.700	(1.463)	432054	10.0000	12.5
89 1,2,4-Trichlorobenzene	180	13.737	13.737	(1.582)	550534	10.0000	10.7
90 Naphthalene	128	13.852	13.852	(1.595)	1428599	10.0000	11.0
91 Hexachlorobutadiene	225	14.054	14.054	(1.619)	593384	10.0000	9.57

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08905.D
Report Date: 30-Mar-2019 11:29

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airI.i
Lab File ID: 08905.D
Lab Smp Id: CAL5
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
Misc Info:

Calibration Date: 30-MAR-2019
Calibration Time: 08:43
Level: LOW
Sample Type: AIR

Test Mode:
Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	1148342	689005	1607679	1148342	0.00
64 Chlorobenzene - d	994820	596892	1392748	994820	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.63	5.30	5.96	5.63	0.00
64 Chlorobenzene - d	8.68	8.35	9.01	8.68	0.00

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

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08905.D

Date : 30-MAR-2019 08:43

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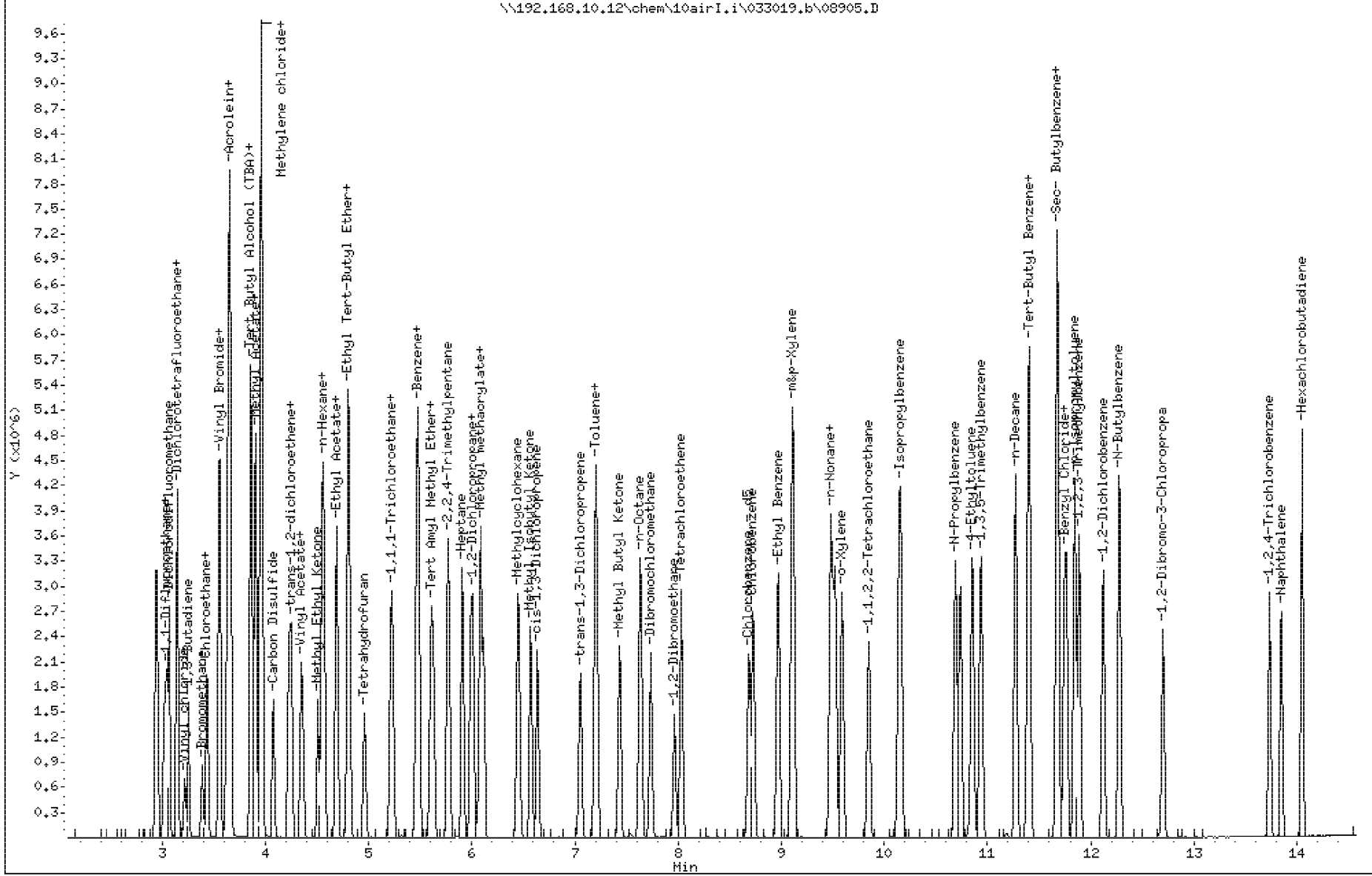
Sample Info:

Column phase: DB-5 SN:USD449717H

Instrument: 10air1.i

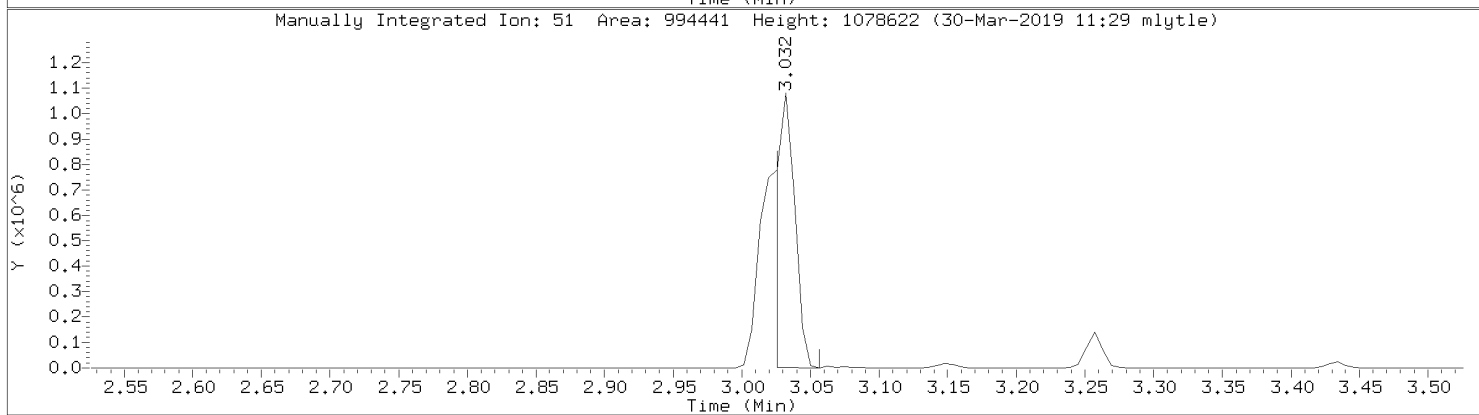
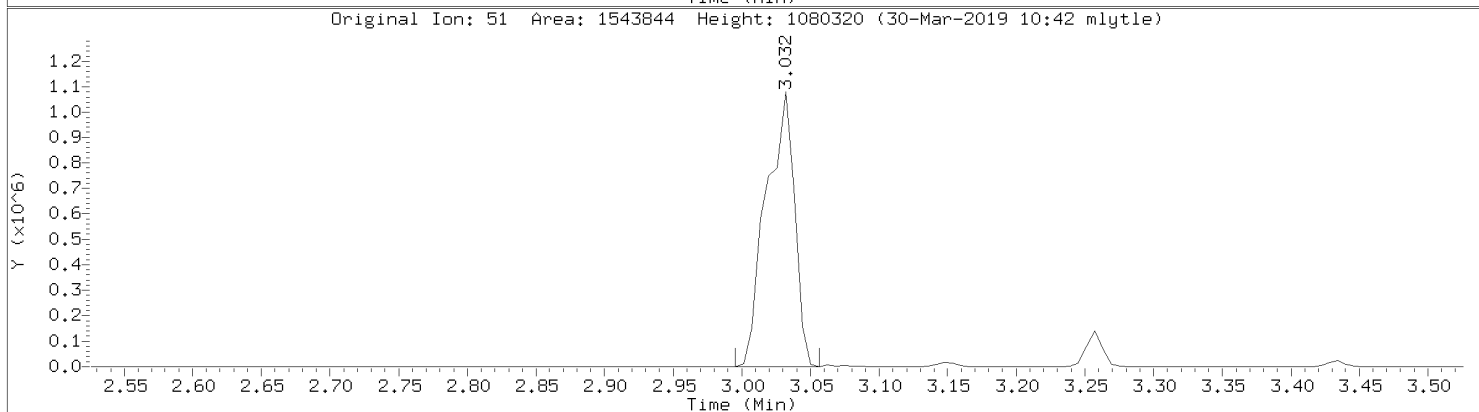
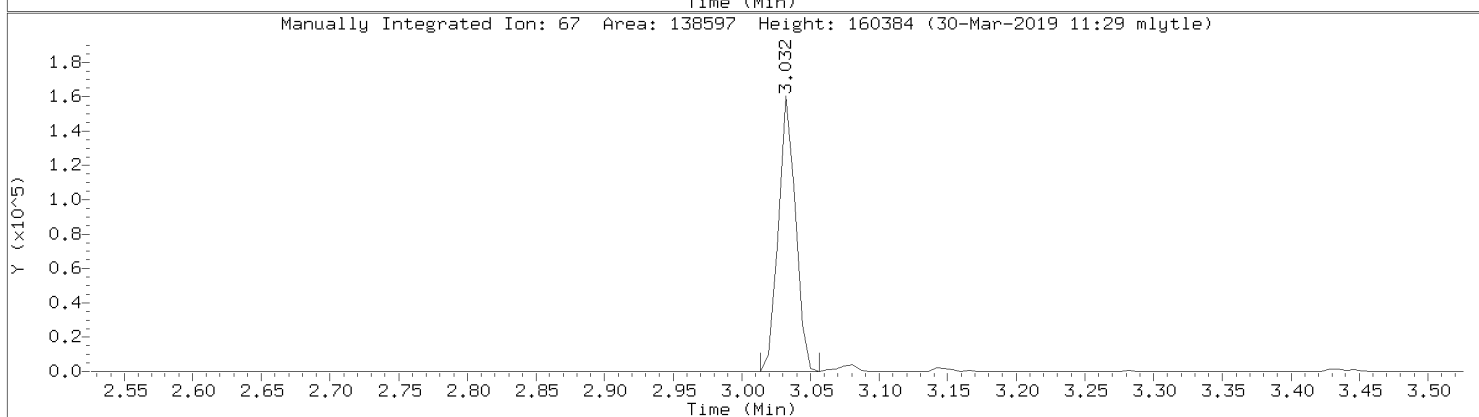
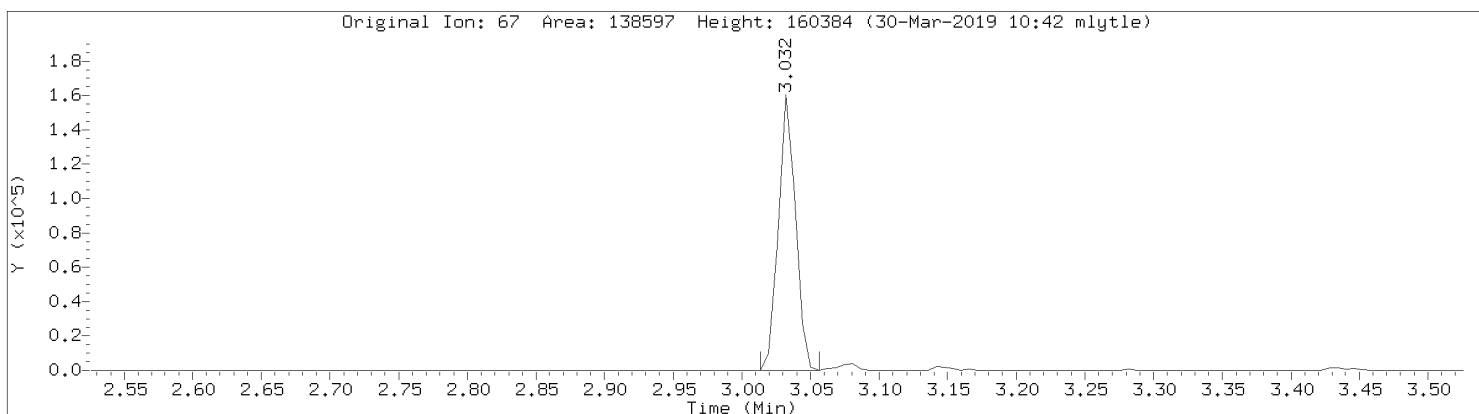
Operator: MJL

Column diameter: 0.32

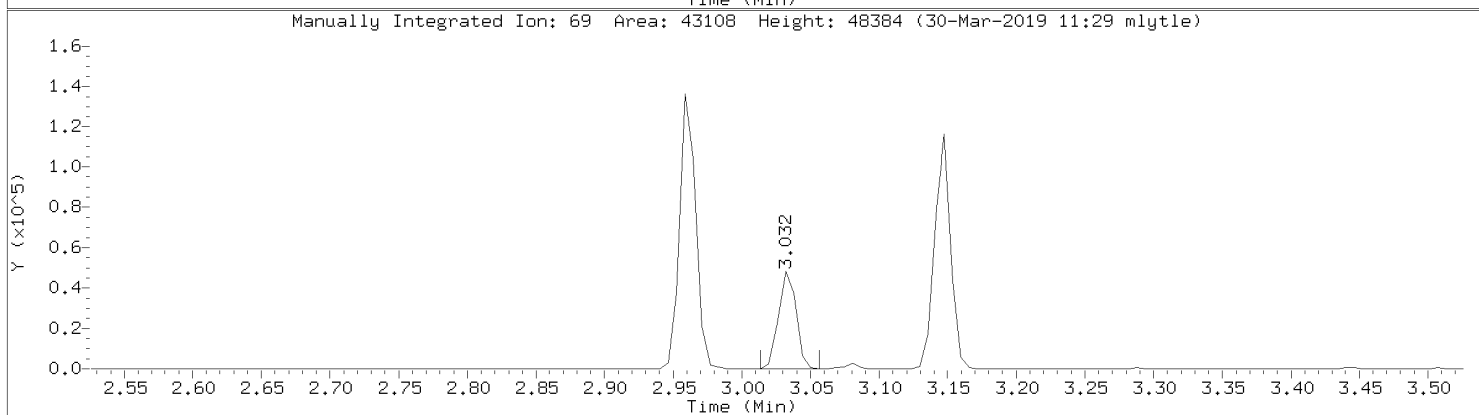
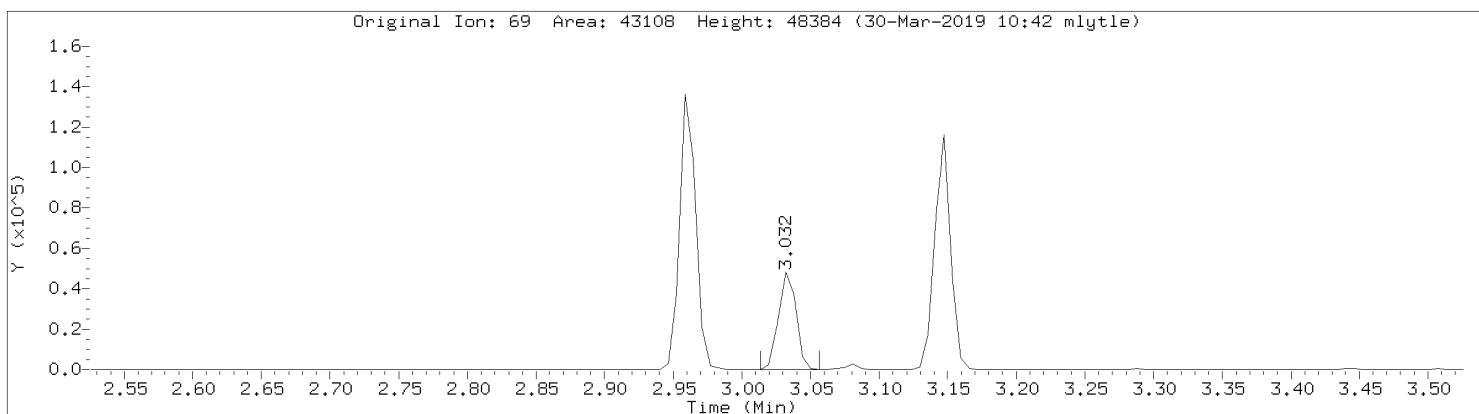


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08905.D
Injection Date: 30-MAR-2019 08:43
Instrument: 10airI.i
Lab Sample ID: CAL5

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

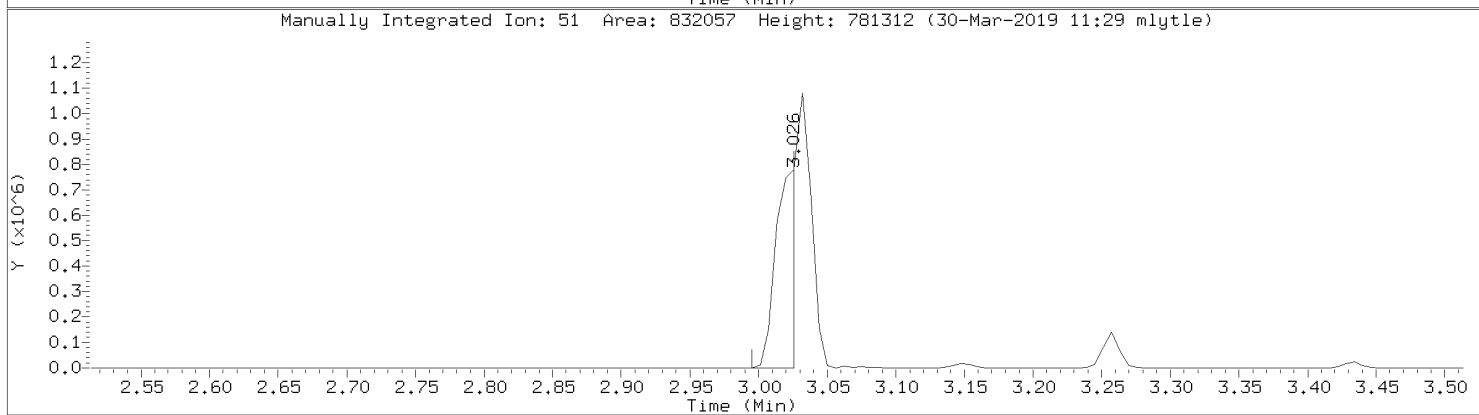
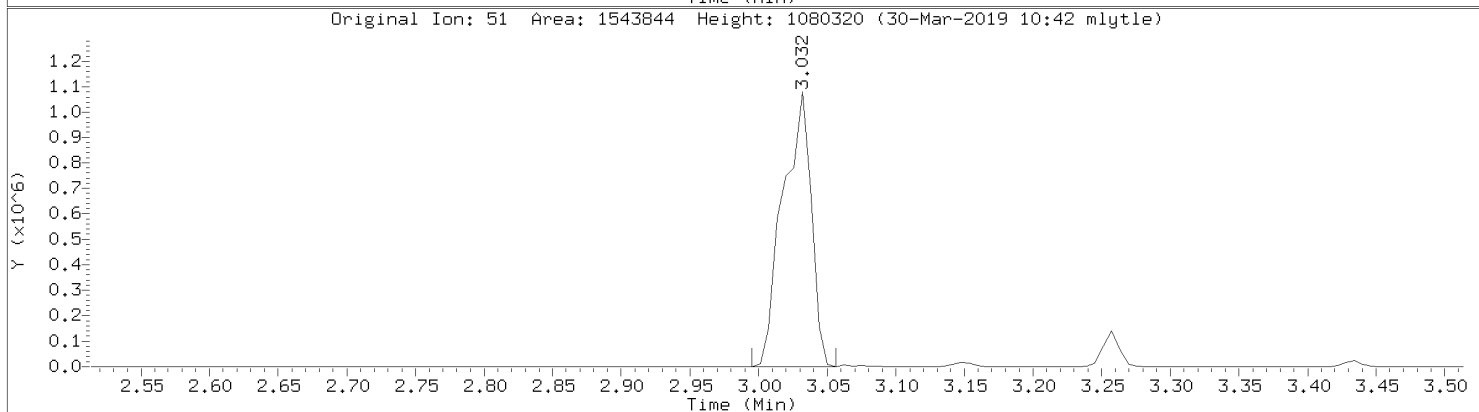
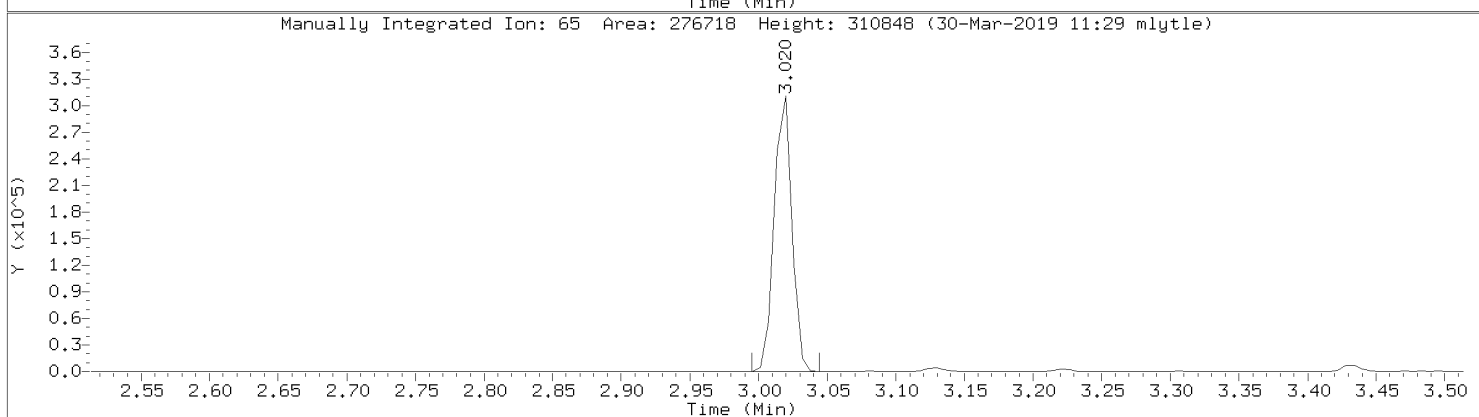
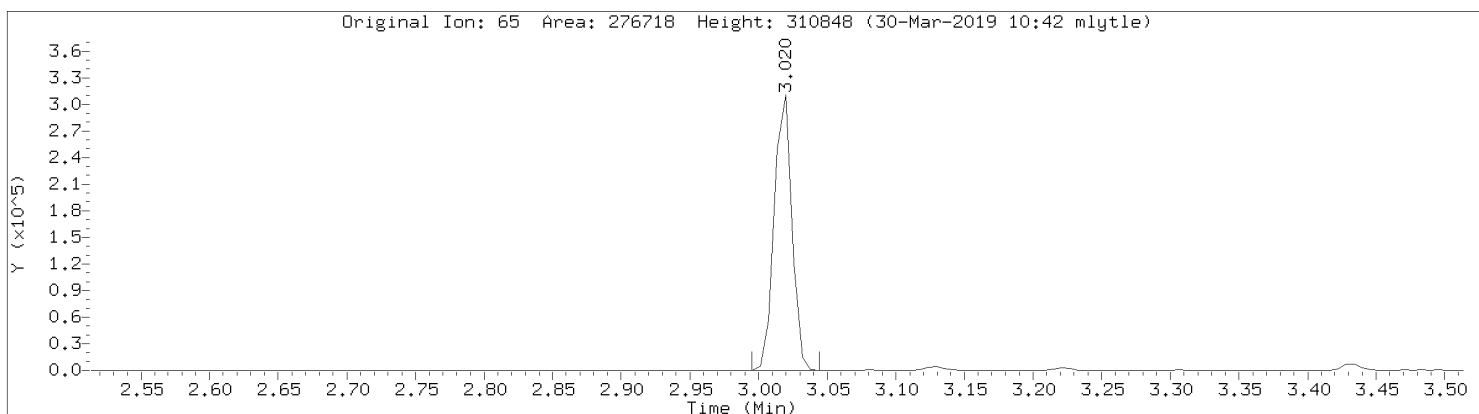


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Injection Date: 30-MAR-2019 08:43
Instrument: 10airI.i
Lab Sample ID: CAL5

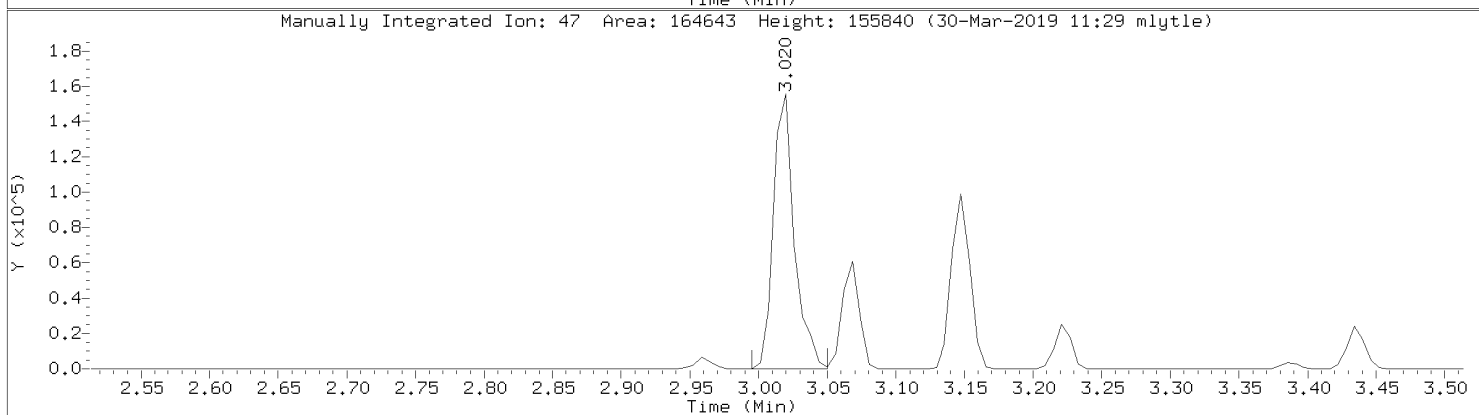
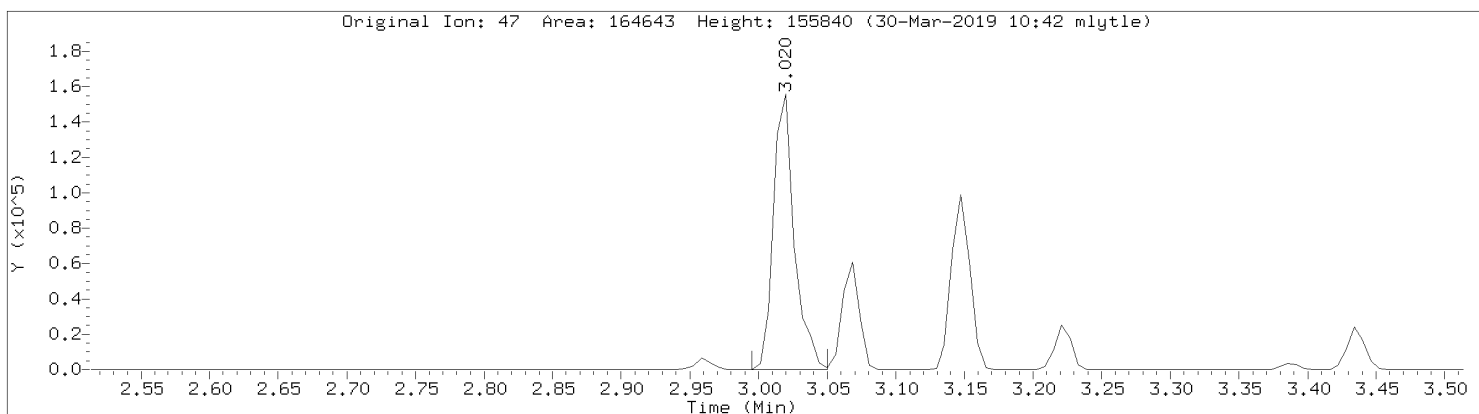


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08905.D
Injection Date: 30-MAR-2019 08:43
Instrument: 10airI.i
Lab Sample ID: CAL5

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08905.D
Injection Date: 30-MAR-2019 08:43
Instrument: 10airI.i
Lab Sample ID: CAL5



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\033019.b\08906.D
 Lab Smp Id: CAL4
 Inj Date : 30-MAR-2019 09:11
 Operator : MJL Inst ID: 10airI.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Meth Date : 30-Mar-2019 11:29 10airI.i Quant Type: ISTD
 Cal Date : 30-MAR-2019 08:43 Cal File: 08905.D
 Als bottle: 6 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 1,1-Difluoroethane	65		3.013	3.013	(0.535)	27762	1.00000	0.918 (QM)
2 Chlorodifluoromethane	67		3.031	3.031	(0.539)	14572	1.00000	1.09 (QM)
3 Propylene	41		3.043	3.043	(0.541)	50013	1.00000	0.928
4 Dichlorodifluoromethane	85		3.068	3.068	(0.545)	124766	1.00000	0.925
5 Dichlorotetrafluoroethane	85		3.147	3.147	(0.559)	88923	1.00000	0.902
6 Chloromethane	50		3.147	3.147	(0.559)	52112	1.00000	0.895
7 Vinyl chloride	62		3.220	3.220	(0.572)	34595	1.00000	0.918
8 1,3-Butadiene	54		3.257	3.257	(0.579)	31302	1.00000	0.974
9 Bromomethane	94		3.385	3.385	(0.601)	30087	1.00000	0.948
10 Chloroethane	64		3.427	3.427	(0.609)	16567	1.00000	0.964
11 Ethanol	45		3.434	3.434	(0.610)	118006	5.00000	5.44
12 Vinyl Bromide	106		3.543	3.543	(0.630)	27635	1.00000	0.928
13 Isopentane	43		3.556	3.556	(0.632)	49104	1.00000	0.928
14 Freon 123	83		3.562	3.562	(0.633)	68921	1.00000	0.942
15 Acrolein	56		3.616	3.616	(0.643)	40606	2.50000	2.46
16 Trichlorofluoromethane	101		3.635	3.635	(0.646)	106464	1.00000	0.925
17 Acetone	43		3.647	3.647	(0.648)	529853	5.00000	4.32
18 Isopropyl Alcohol	45		3.659	3.659	(0.650)	421428	5.00000	4.78
19 Tert Butyl Alcohol (TBA)	59		3.854	3.854	(0.685)	116537	1.00000	0.959
20 Acrylonitrile	53		3.860	3.860	(0.686)	108019	2.50000	2.32
21 1,1-Dichloroethene	61		3.866	3.866	(0.687)	83643	1.00000	0.952
22 Methyl Acetate	43		3.897	3.897	(0.692)	122431	1.00000	0.939
23 Freon 113	101		3.903	3.903	(0.693)	90331	1.00000	0.961

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Methylene chloride	49		3.958	3.958	(0.703)	380771	5.00000	4.80
25 Allyl Chloride	76		3.970	3.970	(0.705)	21324	1.00000	0.946
26 Carbon Disulfide	76		4.080	4.080	(0.725)	122907	1.00000	0.964
27 trans-1,2-dichloroethene	96		4.226	4.226	(0.751)	46638	1.00000	0.995
28 Methyl Tert Butyl Ether	73		4.250	4.250	(0.755)	129962	1.00000	0.943
29 Vinyl Acetate	43		4.342	4.342	(0.771)	172300	1.00000	0.937
30 1,1-Dichloroethane	63		4.360	4.360	(0.775)	89728	1.00000	0.966
31 Methyl Ethyl Ketone	72		4.507	4.507	(0.801)	29314	1.00000	1.03
32 n-Hexane	57		4.549	4.549	(0.808)	84467	1.00000	0.943
33 Di-isopropyl Ether	45		4.561	4.561	(0.810)	227173	1.00000	0.973
34 Ethyl Acetate	43		4.689	4.689	(0.833)	151366	1.00000	0.941
35 cis-1,2-Dichloroethene	96		4.689	4.689	(0.833)	47289	1.00000	0.936
36 Ethyl Tert-Butyl Ether	59		4.799	4.799	(0.853)	170075	1.00000	0.938
37 Chloroform	83		4.805	4.805	(0.854)	99258	1.00000	0.899(Q)
38 Tetrahydrofuran	42		4.964	4.964	(0.882)	65239	1.00000	0.920
39 1,1,1-Trichloroethane	97		5.214	5.214	(0.926)	109752	1.00000	0.960
40 1,2-Dichloroethane	62		5.232	5.232	(0.930)	84523	1.00000	0.916
41 Benzene	78		5.458	5.458	(0.970)	140262	1.00000	0.971
42 Carbon tetrachloride	117		5.476	5.476	(0.973)	102411	1.00000	0.946
43 Cyclohexane	56		5.482	5.482	(0.974)	82281	1.00000	0.920
44 Tert Amyl Methyl Ether	73		5.604	5.604	(0.996)	153521	1.00000	0.936
* 45 1,4-Difluorobenzene	114		5.628	5.628	(1.000)	1126050	10.0000	
46 2,2,4-Trimethylpentane	57		5.768	5.768	(1.025)	256889	1.00000	0.948
47 Heptane	43		5.909	5.909	(1.050)	124692	1.00000	0.983
48 1,2-Dichloropropane	63		5.988	5.988	(1.064)	55594	1.00000	0.921
49 Trichloroethene	130		6.006	6.006	(1.067)	57275	1.00000	0.957
50 Methyl methacrylate	69		6.079	6.079	(1.080)	53036	1.00000	0.965
51 1,4-Dioxane	88		6.092	6.092	(1.082)	71261	2.50000	2.32
52 Bromodichloromethane	83		6.110	6.110	(1.086)	101943	1.00000	0.911
53 Methylcyclohexane	98		6.451	6.451	(1.146)	34244	1.00000	0.917
54 Methyl Isobutyl Ketone	43		6.573	6.573	(1.168)	152316	1.00000	0.951
55 cis-1,3-Dichloropropene	75		6.640	6.640	(1.180)	83319	1.00000	0.925
56 trans-1,3-Dichloropropene	75		7.049	7.049	(1.252)	72492	1.00000	0.918
57 Toluene	91		7.201	7.201	(1.279)	160767	1.00000	0.965
58 1,1,2-Trichloroethane	97		7.207	7.207	(1.281)	54561	1.00000	0.938
59 Methyl Butyl Ketone	43		7.439	7.439	(0.857)	143840	1.00000	0.959
60 n-Octane	43		7.634	7.634	(0.879)	153508	1.00000	0.960
61 Dibromochloromethane	129		7.732	7.732	(0.890)	66053	1.00000	0.828
62 1,2-Dibromoethane	107		7.963	7.963	(0.917)	84465	1.00000	0.923
63 Tetrachloroethene	166		8.030	8.030	(0.925)	65679	1.00000	0.955
* 64 Chlorobenzene - d5	117		8.683	8.683	(1.000)	958056	10.0000	
65 Chlorobenzene	112		8.725	8.725	(1.005)	114398	1.00000	0.954
66 Ethyl Benzene	91		8.969	8.969	(1.033)	205057	1.00000	0.993
67 m&p-Xylene	91		9.109	9.109	(1.049)	311807	2.00000	1.98
68 n-Nonane	43		9.481	9.481	(1.092)	151661	1.00000	0.950
69 Bromoform	173		9.506	9.506	(1.095)	23755	1.00000	0.612
70 Styrene	104		9.524	9.524	(1.097)	107868	1.00000	0.981
71 o-Xylene	91		9.585	9.585	(1.104)	162350	1.00000	1.01
72 1,1,2,2-Tetrachloroethane	83		9.847	9.847	(1.134)	102650	1.00000	0.926
73 Isopropylbenzene	105		10.146	10.146	(1.169)	208636	1.00000	0.958
74 N-Propylbenzene	91		10.688	10.688	(1.231)	256057	1.00000	0.958
75 4-Ethyltoluene	105		10.853	10.853	(1.250)	198016	1.00000	0.992
76 1,3,5-Trimethylbenzene	105		10.932	10.932	(1.259)	166959	1.00000	0.969
77 n-Decane	57		11.274	11.274	(2.003)	128449	1.00000	0.951

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
78 Tert-Butyl Benzene	119		11.395	11.395	(1.312)	176116	1.00000	0.999
79 1,2,4-Trimethylbenzene	105		11.408	11.408	(1.314)	167966	1.00000	0.983
80 Sec- Butylbenzene	105		11.676	11.676	(1.345)	240052	1.00000	0.991
81 1,3-Dichlorobenzene	146		11.676	11.676	(1.345)	87039	1.00000	0.944
82 Benzyl Chloride	91		11.743	11.743	(1.352)	92608	1.00000	0.884
83 1,4-Dichlorobenzene	146		11.761	11.761	(1.355)	84446	1.00000	0.958
84 p-Isopropyltoluene	119		11.847	11.847	(1.364)	191302	1.00000	1.00
85 1,2,3-Trimethylbenzene	105		11.889	11.889	(1.369)	159561	1.00000	0.975
86 1,2-Dichlorobenzene	146		12.121	12.121	(1.396)	84223	1.00000	0.936
87 N-Butylbenzene	91		12.273	12.273	(1.414)	190607	1.00000	1.01
88 1,2-Dibromo-3-Chloropropane	157		12.700	12.700	(1.463)	27701	1.00000	0.831
89 1,2,4-Trichlorobenzene	180		13.736	13.736	(1.582)	49125	1.00000	0.988
90 Naphthalene	128		13.846	13.846	(1.595)	129335	1.00000	1.03
91 Hexachlorobutadiene	225		14.047	14.047	(1.618)	56116	1.00000	0.940

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08906.D
Report Date: 30-Mar-2019 11:29

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airI.i
Lab File ID: 08906.D
Lab Smp Id: CAL4
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
Misc Info:

Calibration Date: 30-MAR-2019
Calibration Time: 08:43

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	1148342	689005	1607679	1126050	-1.94
64 Chlorobenzene - d	994820	596892	1392748	958056	-3.70

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.63	5.30	5.96	5.63	-0.00
64 Chlorobenzene - d	8.68	8.35	9.01	8.68	-0.00

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

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08906.D

Date : 30-MAR-2019 09:11

Client ID:

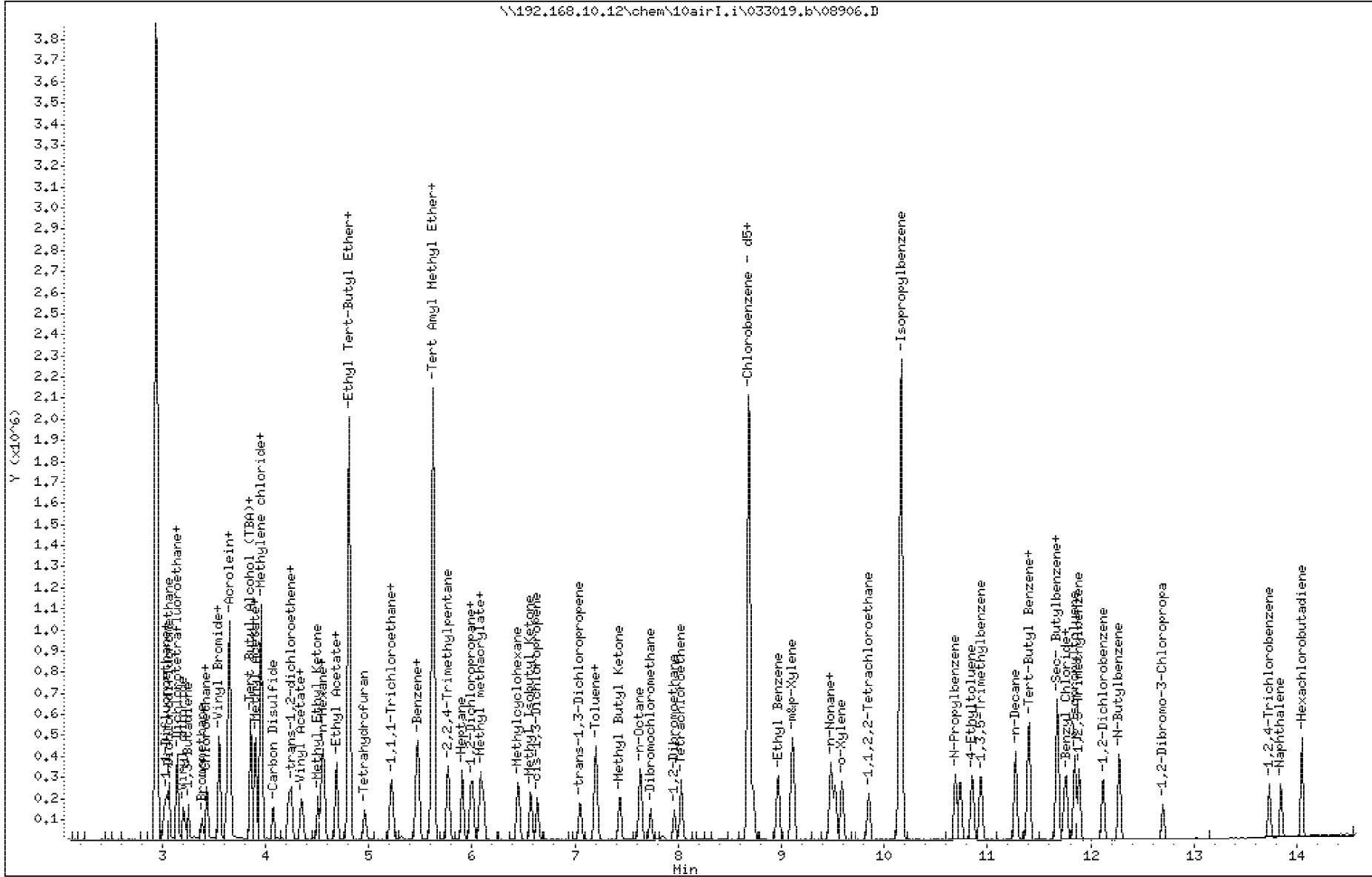
Sample Info:

Column phase: DB-5 SN:USD449717H

Instrument: 10air1.i

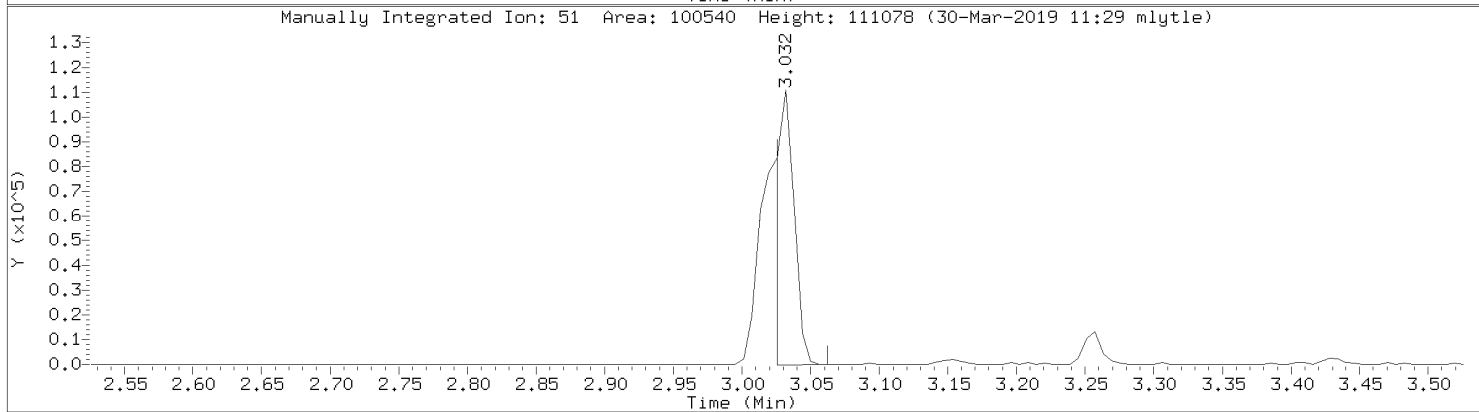
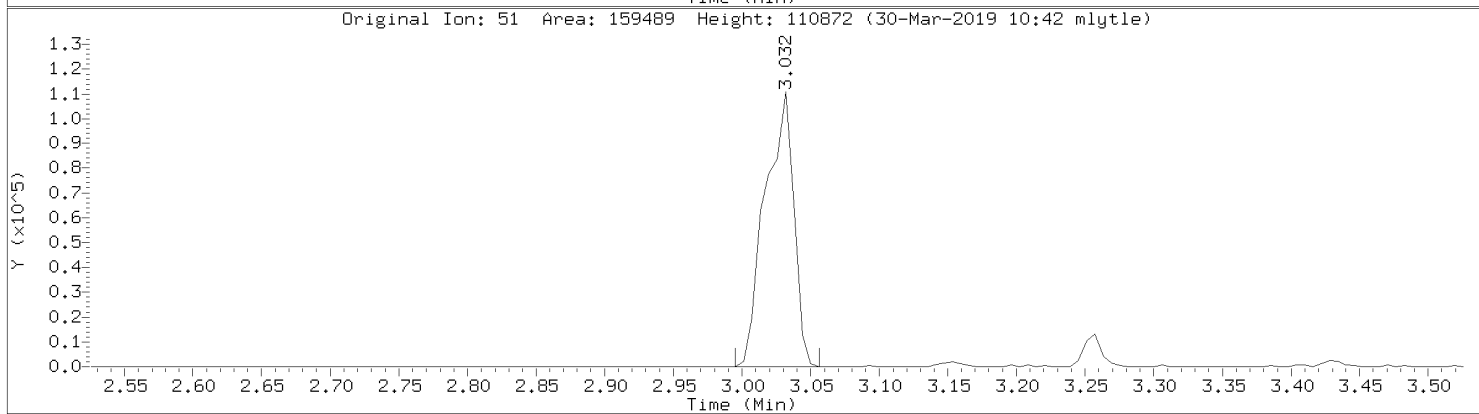
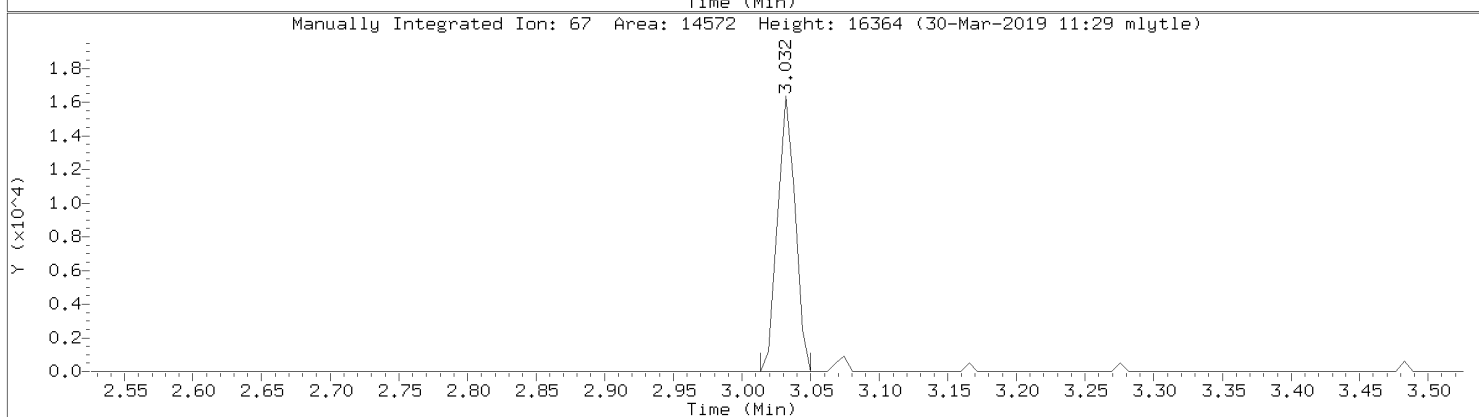
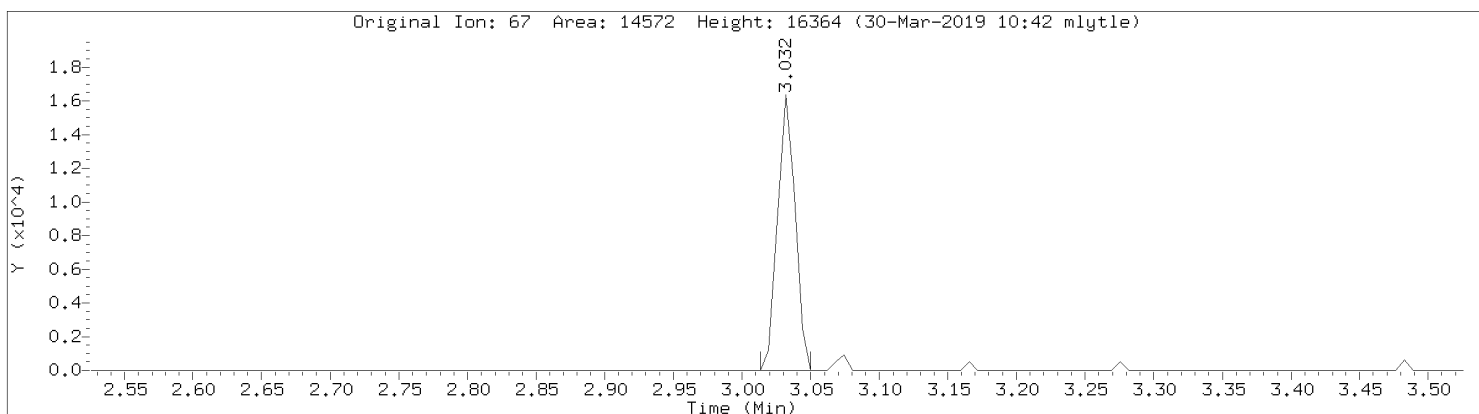
Operator: MJL

Column diameter: 0.32



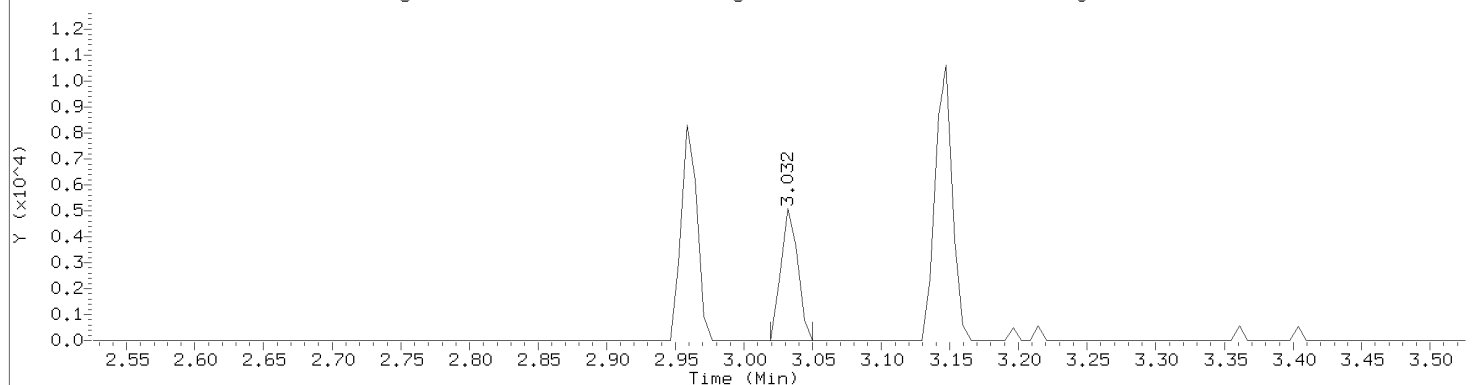
Data File: \\192.168.10.12\chem\10airI.i\033019.b\08906.D
Injection Date: 30-MAR-2019 09:11
Instrument: 10airI.i
Lab Sample ID: CAL4

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

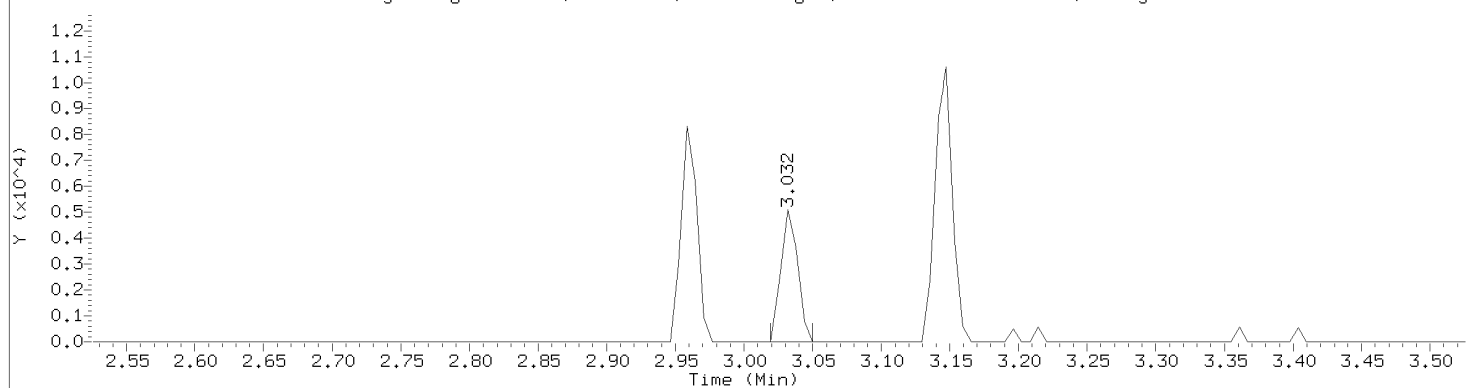


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08906.D
Injection Date: 30-MAR-2019 09:11
Instrument: 10airI.i
Lab Sample ID: CAL4

Original Ion: 69 Area: 4332 Height: 5106 (30-Mar-2019 10:42 mlytle)

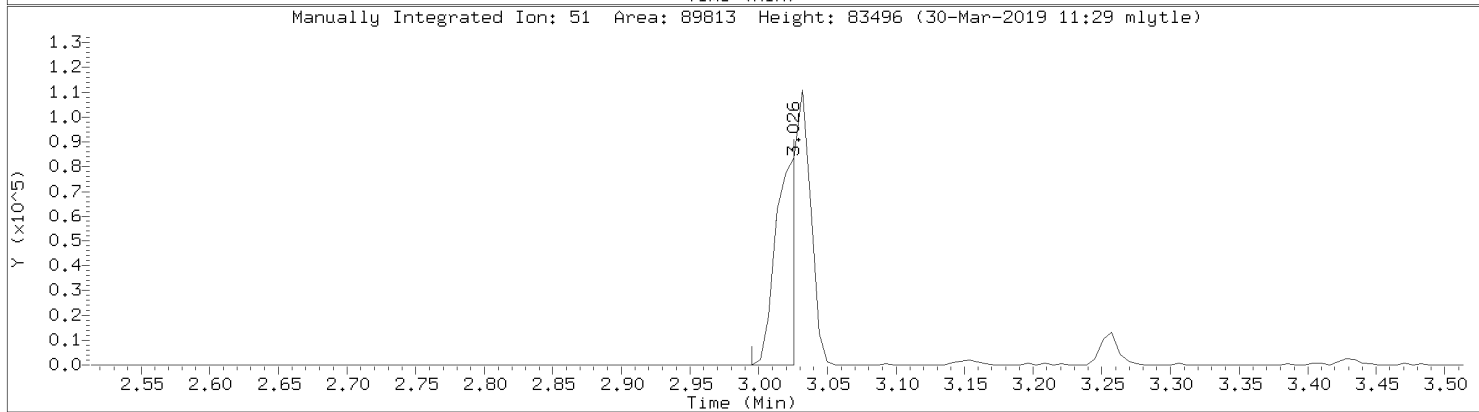
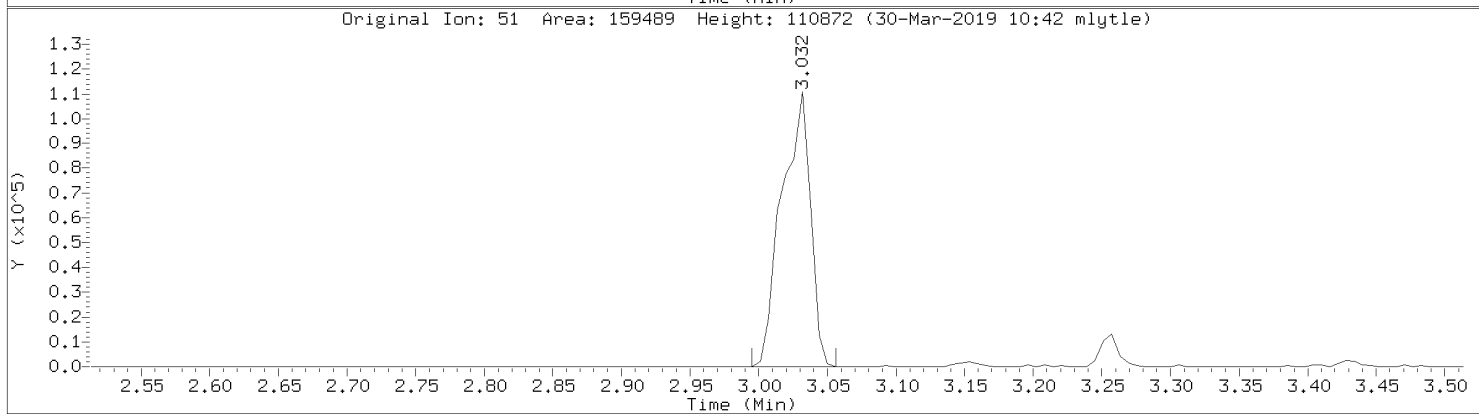
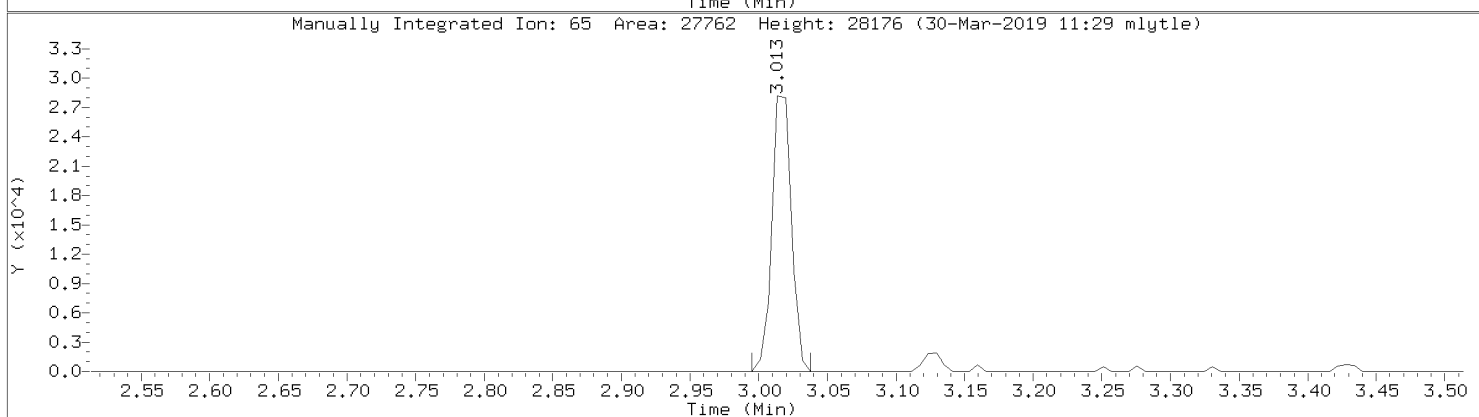
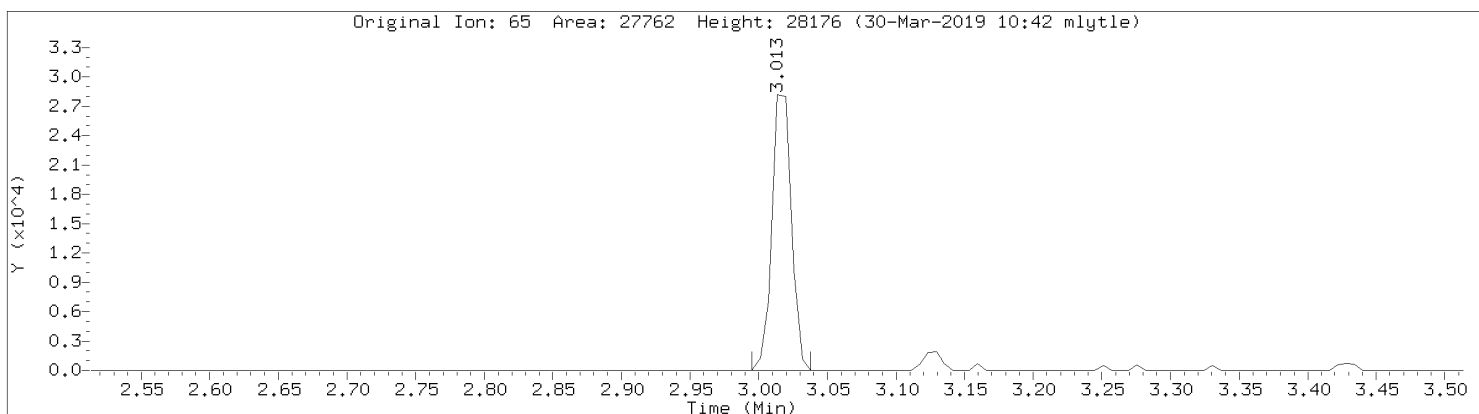


Manually Integrated Ion: 69 Area: 4332 Height: 5106 (30-Mar-2019 11:29 mlytle)

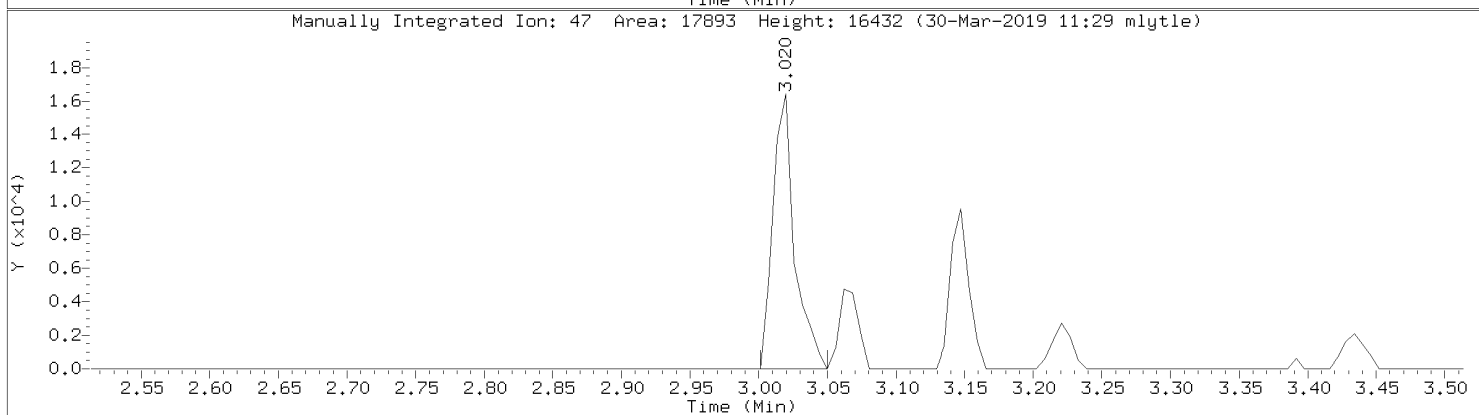
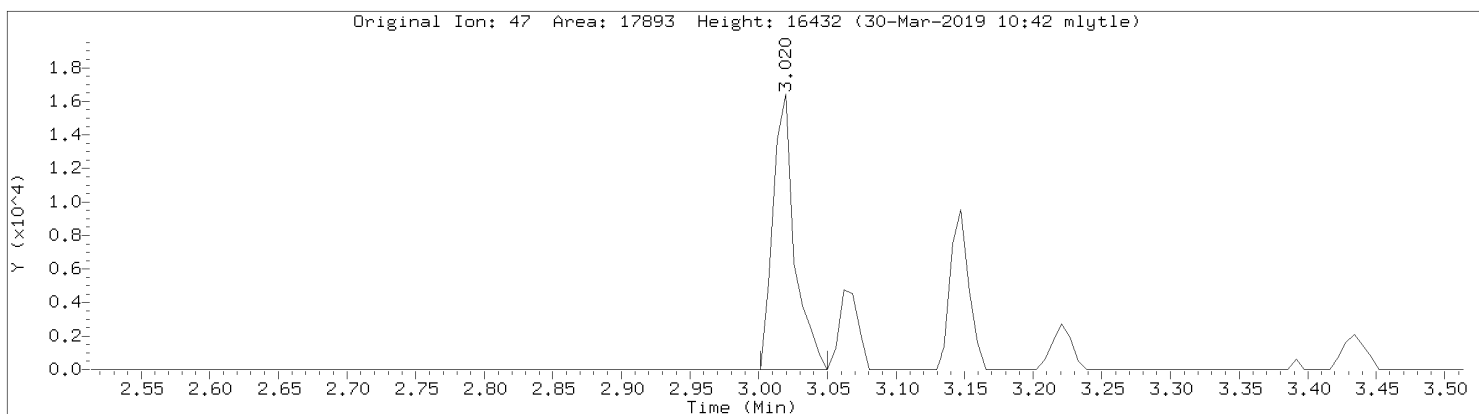


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08906.D
Injection Date: 30-MAR-2019 09:11
Instrument: 10airI.i
Lab Sample ID: CAL4

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08906.D
Injection Date: 30-MAR-2019 09:11
Instrument: 10airI.i
Lab Sample ID: CAL4



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08907.D
 Report Date: 30-Mar-2019 11:29

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\033019.b\08907.D
 Lab Smp Id: CAL3
 Inj Date : 30-MAR-2019 09:38
 Operator : MJL Inst ID: 10airI.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Meth Date : 30-Mar-2019 11:29 10airI.i Quant Type: ISTD
 Cal Date : 30-MAR-2019 09:11 Cal File: 08906.D
 Als bottle: 7 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT (ppbv)	ON-COL (ppbv)
1 1,1-Difluoroethane	65	3.019	3.019	(0.536)	14069	0.50000	0.475 (M)
2 Chlorodifluoromethane	67	3.031	3.031	(0.539)	5887	0.50000	0.451 (QM)
3 Propylene	41	3.044	3.044	(0.541)	24396	0.50000	0.462
4 Dichlorodifluoromethane	85	3.068	3.068	(0.545)	66773	0.50000	0.505
5 Dichlorotetrafluoroethane	85	3.147	3.147	(0.559)	48554	0.50000	0.503
6 Chloromethane	50	3.147	3.147	(0.559)	27903	0.50000	0.489
7 Vinyl chloride	62	3.220	3.220	(0.572)	18708	0.50000	0.507
8 1,3-Butadiene	54	3.257	3.257	(0.579)	15958	0.50000	0.507
9 Bromomethane	94	3.391	3.391	(0.603)	16393	0.50000	0.527
10 Chloroethane	64	3.434	3.434	(0.610)	8691	0.50000	0.516
11 Ethanol	45	3.440	3.440	(0.611)	61834	2.50000	2.91
12 Vinyl Bromide	106	3.543	3.543	(0.630)	14230	0.50000	0.488
13 Isopentane	43	3.556	3.556	(0.632)	29654	0.50000	0.572
14 Freon 123	83	3.562	3.562	(0.633)	36052	0.50000	0.503
15 Acrolein	56	3.623	3.623	(0.644)	19890	1.25000	1.23
16 Trichlorofluoromethane	101	3.635	3.635	(0.646)	55536	0.50000	0.493
17 Acetone	43	3.653	3.653	(0.649)	283805	2.50000	2.37
18 Isopropyl Alcohol	45	3.659	3.659	(0.650)	222087	2.50000	2.57
19 Tert Butyl Alcohol (TBA)	59	3.860	3.860	(0.686)	56827	0.50000	0.478
20 Acrylonitrile	53	3.860	3.860	(0.686)	59552	1.25000	1.30
21 1,1-Dichloroethene	61	3.867	3.867	(0.687)	42788	0.50000	0.497
22 Methyl Acetate	43	3.897	3.897	(0.692)	63669	0.50000	0.499
23 Freon 113	101	3.903	3.903	(0.693)	47028	0.50000	0.511

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Methylene chloride	49		3.958	3.958	(0.703)	199349	2.50000	2.36	
25 Allyl Chloride	76		3.970	3.970	(0.705)	12330	0.50000	0.558 (Q)	
26 Carbon Disulfide	76		4.080	4.080	(0.725)	61048	0.50000	0.489	
27 trans-1,2-dichloroethene	96		4.226	4.226	(0.751)	24930	0.50000	0.543	
28 Methyl Tert Butyl Ether	73		4.251	4.251	(0.755)	67899	0.50000	0.503	
29 Vinyl Acetate	43		4.348	4.348	(0.773)	88054	0.50000	0.489	
30 1,1-Dichloroethane	63		4.360	4.360	(0.775)	44850	0.50000	0.493	
31 Methyl Ethyl Ketone	72		4.513	4.513	(0.802)	14600	0.50000	0.526 (Q)	
32 n-Hexane	57		4.549	4.549	(0.808)	42766	0.50000	0.488	
33 Di-isopropyl Ether	45		4.562	4.562	(0.810)	124193	0.50000	0.544	
34 Ethyl Acetate	43		4.690	4.690	(0.833)	75338	0.50000	0.478	
35 cis-1,2-Dichloroethene	96		4.690	4.690	(0.833)	23853	0.50000	0.482	
36 Ethyl Tert-Butyl Ether	59		4.799	4.799	(0.853)	88365	0.50000	0.498	
37 Chloroform	83		4.805	4.805	(0.854)	52991	0.50000	0.479 (Q)	
38 Tetrahydrofuran	42		4.970	4.970	(0.883)	34547	0.50000	0.498	
39 1,1,1-Trichloroethane	97		5.214	5.214	(0.926)	54246	0.50000	0.485	
40 1,2-Dichloroethane	62		5.232	5.232	(0.930)	44278	0.50000	0.490	
41 Benzene	78		5.458	5.458	(0.970)	72013	0.50000	0.509	
42 Carbon tetrachloride	117		5.476	5.476	(0.973)	50027	0.50000	0.472	
43 Cyclohexane	56		5.482	5.482	(0.974)	42910	0.50000	0.490	
44 Tert Amyl Methyl Ether	73		5.604	5.604	(0.996)	86535	0.50000	0.482	
* 45 1,4-Difluorobenzene	114		5.628	5.628	(1.000)	1102568	10.0000		
46 2,2,4-Trimethylpentane	57		5.769	5.769	(1.025)	128527	0.50000	0.485	
47 Heptane	43		5.909	5.909	(1.050)	64451	0.50000	0.519	
48 1,2-Dichloropropane	63		5.988	5.988	(1.064)	27313	0.50000	0.462	
49 Trichloroethene	130		6.006	6.006	(1.067)	29664	0.50000	0.506	
50 Methyl methacrylate	69		6.086	6.086	(1.081)	24716	0.50000	0.459	
51 1,4-Dioxane	88		6.098	6.098	(1.083)	37654	1.25000	1.25	
52 Bromodichloromethane	83		6.110	6.110	(1.086)	52446	0.50000	0.479	
53 Methylcyclohexane	98		6.451	6.451	(1.146)	18742	0.50000	0.512 (Q)	
54 Methyl Isobutyl Ketone	43		6.579	6.579	(1.169)	75074	0.50000	0.479	
55 cis-1,3-Dichloropropene	75		6.634	6.634	(1.179)	42171	0.50000	0.478	
56 trans-1,3-Dichloropropene	75		7.049	7.049	(1.252)	36690	0.50000	0.475	
57 Toluene	91		7.201	7.201	(1.279)	79673	0.50000	0.489	
58 1,1,2-Trichloroethane	97		7.207	7.207	(1.281)	27470	0.50000	0.482	
59 Methyl Butyl Ketone	43		7.439	7.439	(0.857)	67063	0.50000	0.459	
60 n-Octane	43		7.634	7.634	(0.879)	82167	0.50000	0.527	
61 Dibromochloromethane	129		7.738	7.738	(0.891)	31817	0.50000	0.409	
62 1,2-Dibromoethane	107		7.963	7.963	(0.917)	42258	0.50000	0.474	
63 Tetrachloroethene	166		8.036	8.036	(0.926)	31776	0.50000	0.474	
* 64 Chlorobenzene - d5	117		8.683	8.683	(1.000)	933234	10.0000		
65 Chlorobenzene	112		8.725	8.725	(1.005)	58756	0.50000	0.503	
66 Ethyl Benzene	91		8.969	8.969	(1.033)	103516	0.50000	0.514	
67 m&p-Xylene	91		9.103	9.103	(1.048)	157672	1.00000	1.03	
68 n-Nonane	43		9.481	9.481	(1.092)	78431	0.50000	0.505	
69 Bromoform	173		9.500	9.500	(1.094)	9468	0.50000	0.404	
70 Styrene	104		9.524	9.524	(1.097)	53867	0.50000	0.503	
71 o-Xylene	91		9.585	9.585	(1.104)	80746	0.50000	0.514	
72 1,1,2,2-Tetrachloroethane	83		9.853	9.853	(1.135)	52425	0.50000	0.486	
73 Isopropylbenzene	105		10.146	10.146	(1.169)	107403	0.50000	0.506	
74 N-Propylbenzene	91		10.688	10.688	(1.231)	137164	0.50000	0.527	
75 4-Ethyltoluene	105		10.853	10.853	(1.250)	101435	0.50000	0.521	
76 1,3,5-Trimethylbenzene	105		10.938	10.938	(1.260)	85697	0.50000	0.510	
77 n-Decane	57		11.274	11.274	(2.003)	67284	0.50000	0.509	

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
78 Tert-Butyl Benzene	119	11.389	11.389	(1.312)	86901	0.50000	0.506
79 1,2,4-Trimethylbenzene	105	11.408	11.408	(1.314)	81857	0.50000	0.492
80 Sec- Butylbenzene	105	11.676	11.676	(1.345)	122434	0.50000	0.519
81 1,3-Dichlorobenzene	146	11.676	11.676	(1.345)	43562	0.50000	0.485
82 Benzyl Chloride	91	11.743	11.743	(1.352)	42575	0.50000	0.417
83 1,4-Dichlorobenzene	146	11.761	11.761	(1.355)	39693	0.50000	0.462
84 p-Isopropyltoluene	119	11.847	11.847	(1.364)	96135	0.50000	0.516
85 1,2,3-Trimethylbenzene	105	11.889	11.889	(1.369)	81852	0.50000	0.513
86 1,2-Dichlorobenzene	146	12.121	12.121	(1.396)	44308	0.50000	0.505
87 N-Butylbenzene	91	12.273	12.273	(1.414)	92810	0.50000	0.504
88 1,2-Dibromo-3-Chloropropane	157	12.700	12.700	(1.463)	12131	0.50000	0.374
89 1,2,4-Trichlorobenzene	180	13.737	13.737	(1.582)	21506	0.50000	0.444
90 Naphthalene	128	13.852	13.852	(1.595)	54616	0.50000	0.448
91 Hexachlorobutadiene	225	14.047	14.047	(1.618)	28733	0.50000	0.494

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08907.D
Report Date: 30-Mar-2019 11:29

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airI.i
Lab File ID: 08907.D
Lab Smp Id: CAL3
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
Misc Info:

Calibration Date: 30-MAR-2019
Calibration Time: 08:43
Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	1148342	689005	1607679	1102568	-3.99
64 Chlorobenzene - d	994820	596892	1392748	933234	-6.19

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.63	5.30	5.96	5.63	-0.00
64 Chlorobenzene - d	8.68	8.35	9.01	8.68	-0.00

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

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08907.D

Date : 30-MAR-2019 09:38

Client ID:

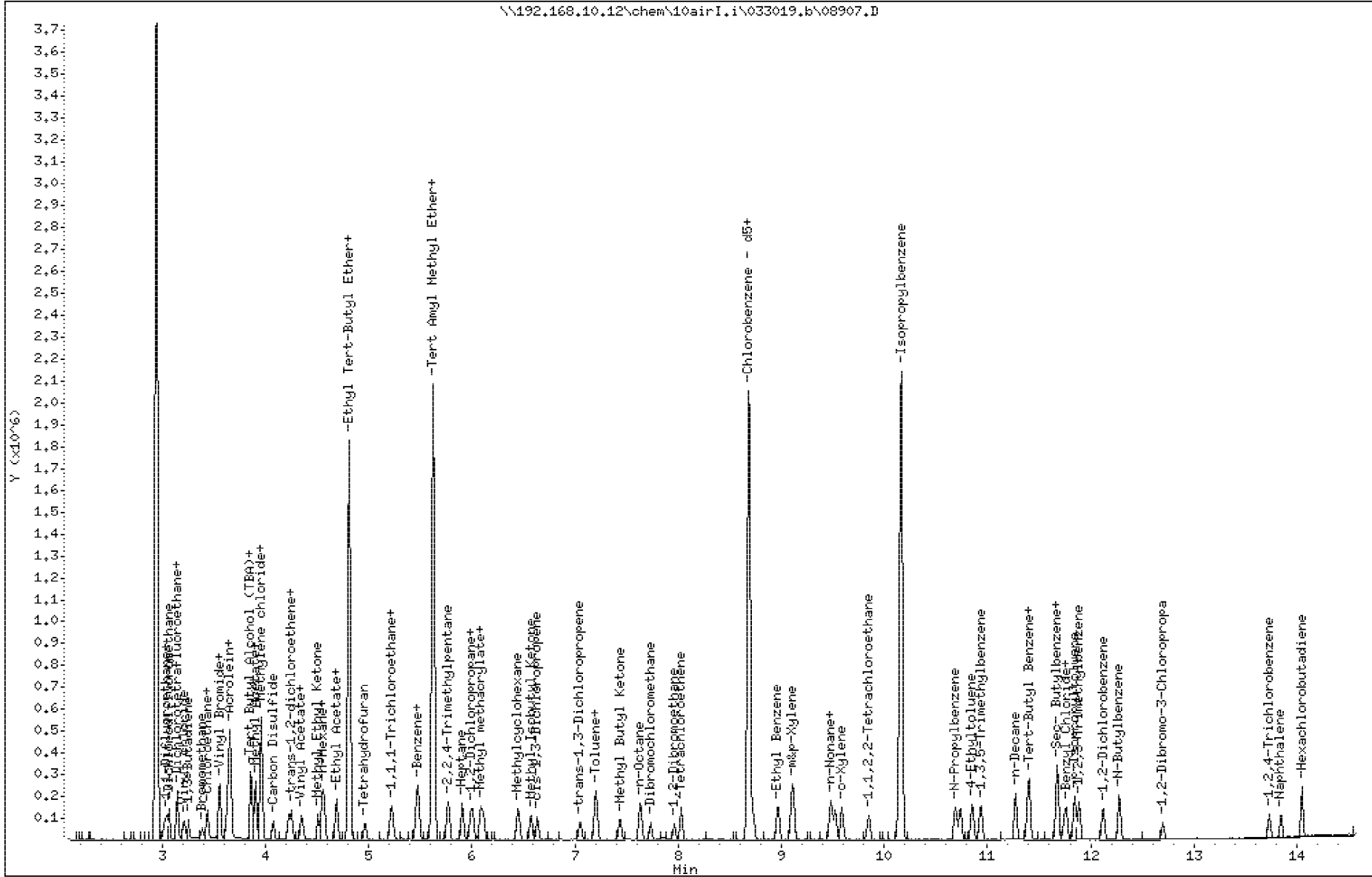
Sample Info:

Column phase: DB-5 SN:USD449717H

Instrument: 10airI.i

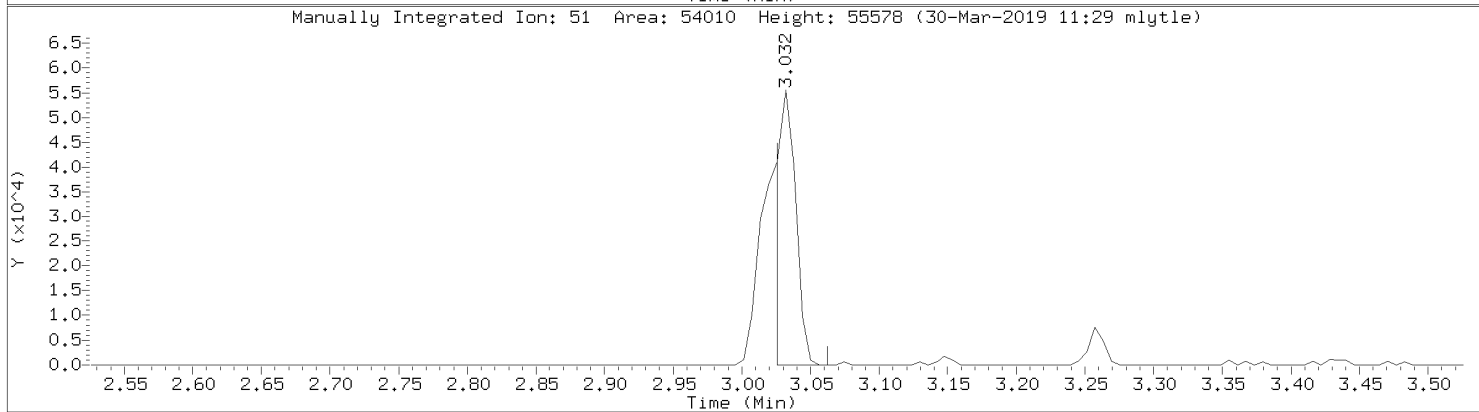
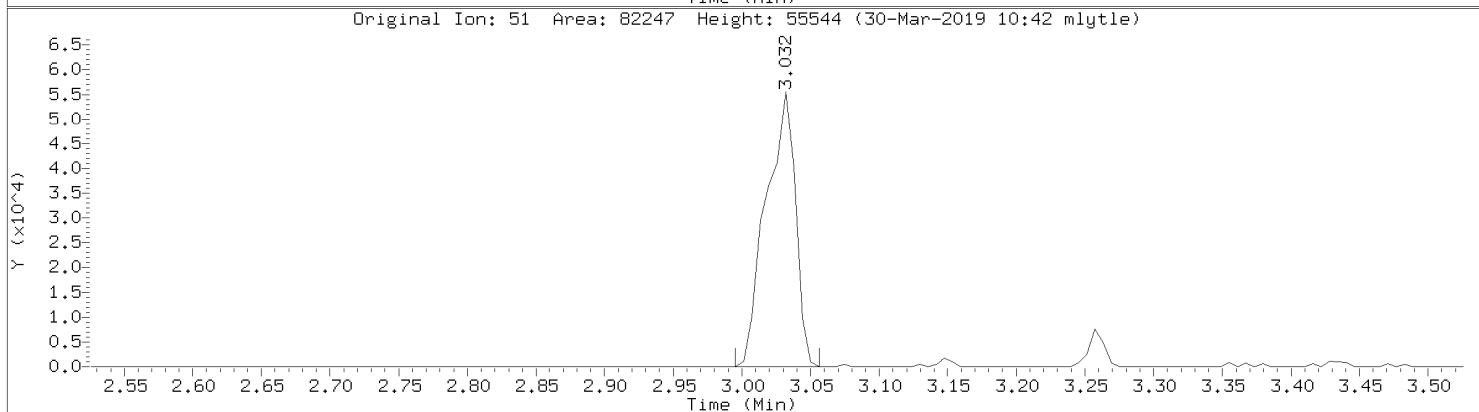
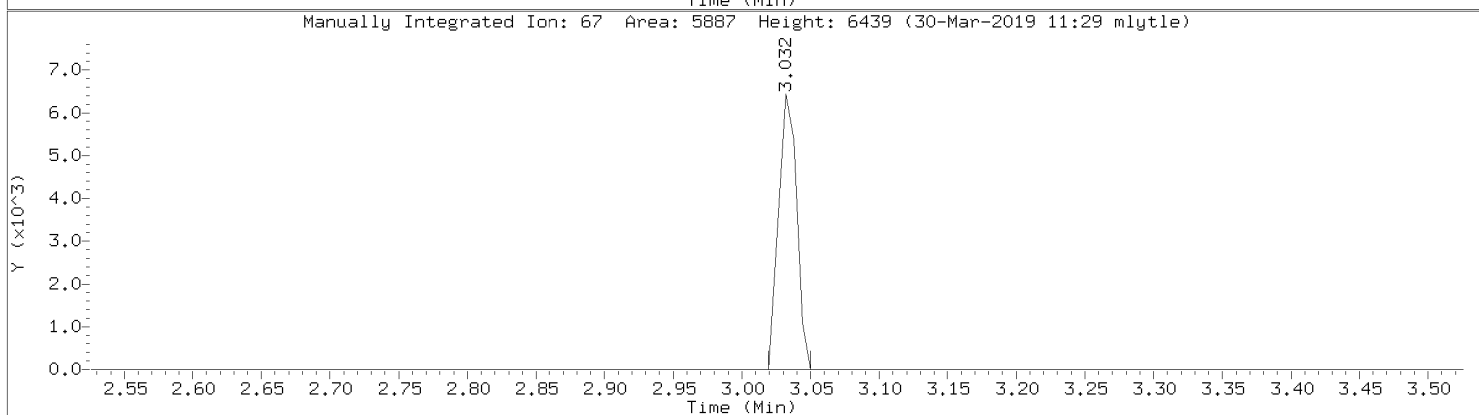
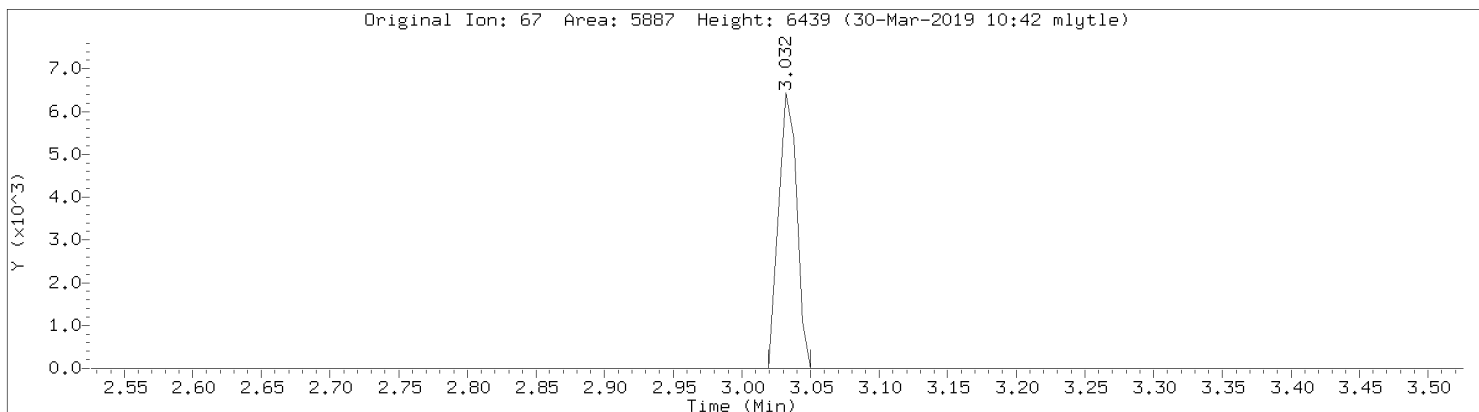
Operator: MJL

Column diameter: 0.32

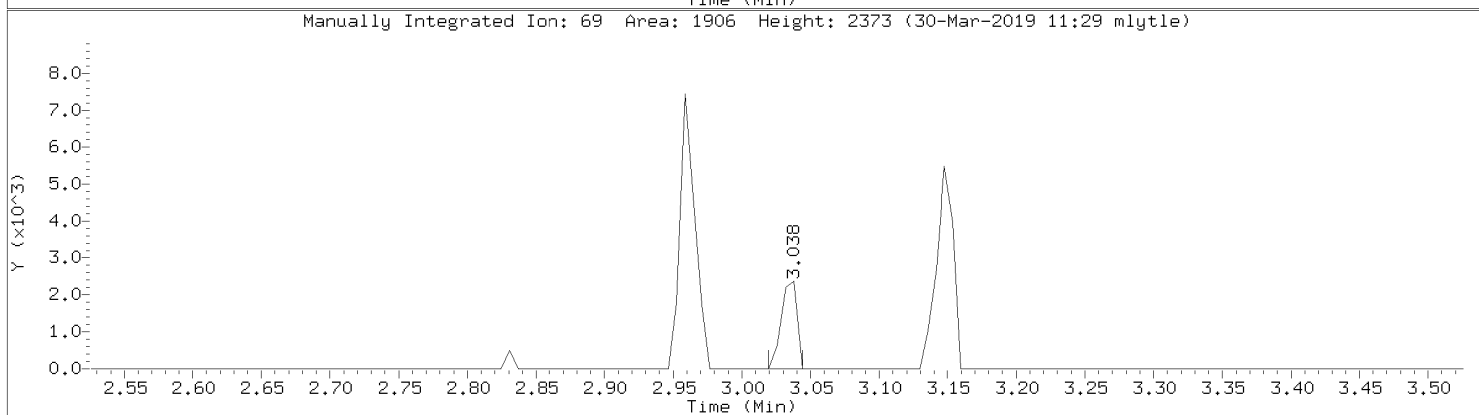
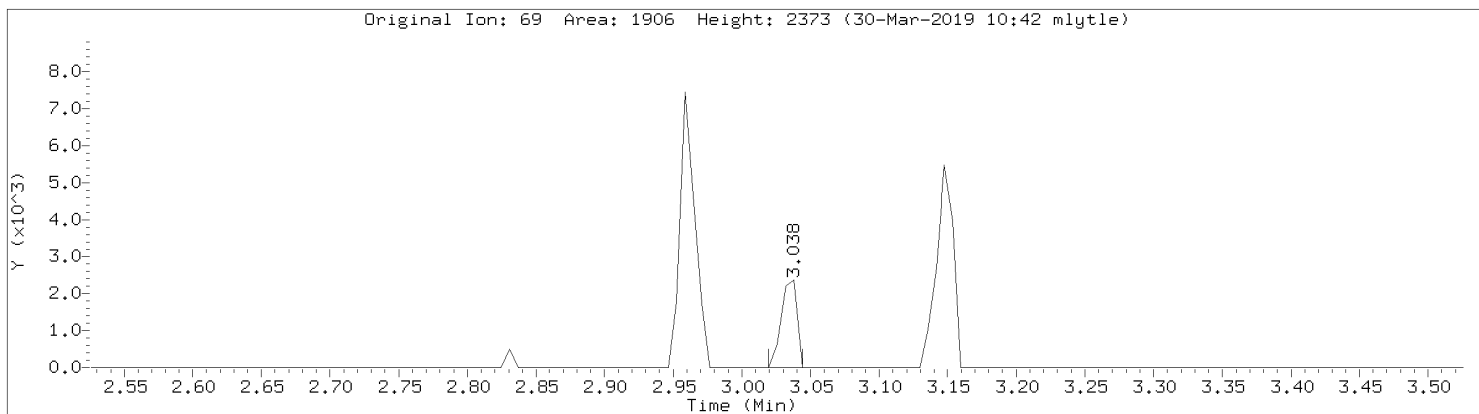


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08907.D
Injection Date: 30-MAR-2019 09:38
Instrument: 10airI.i
Lab Sample ID: CAL3

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

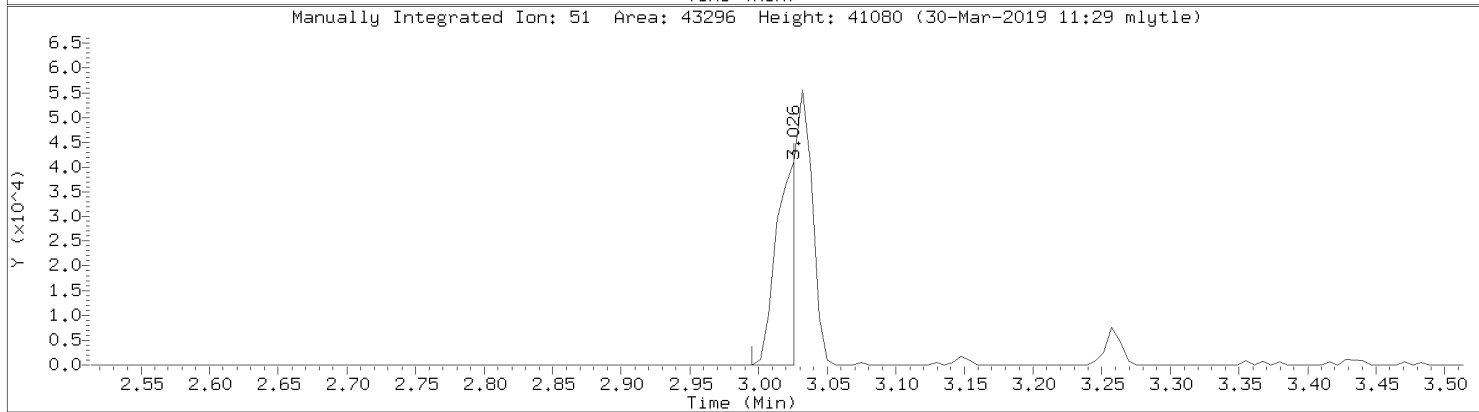
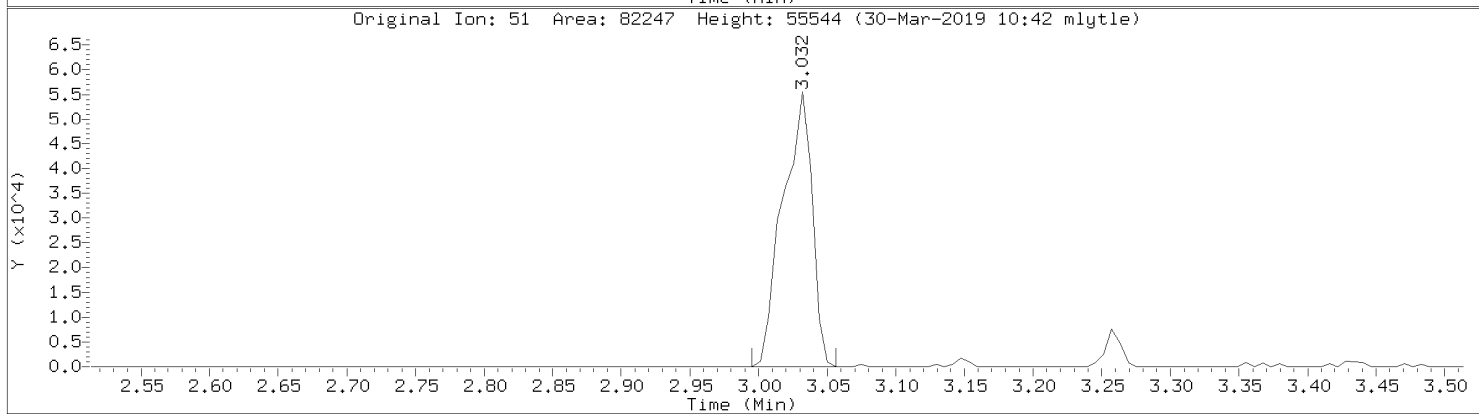
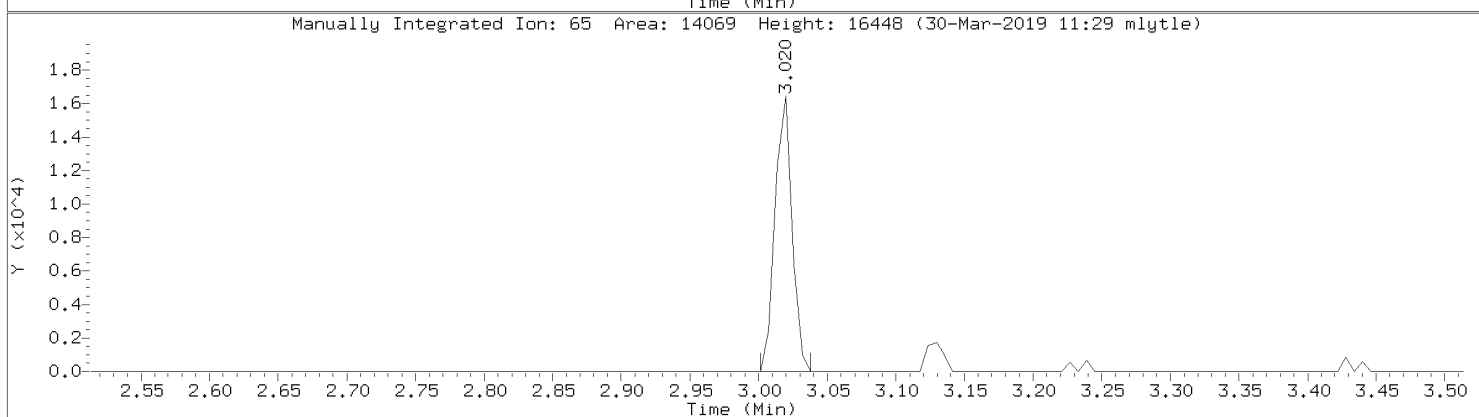
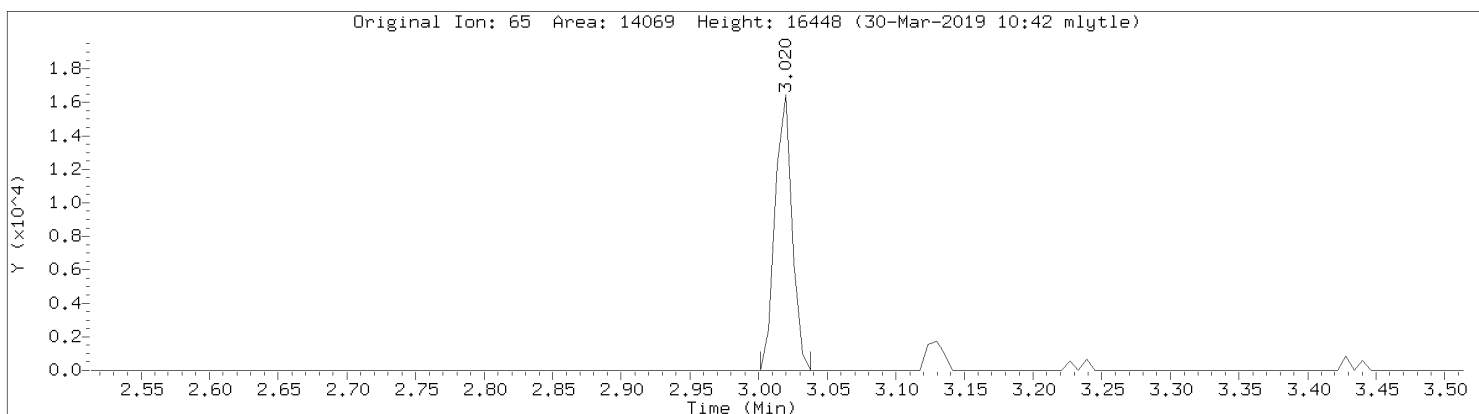


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08907.D
Injection Date: 30-MAR-2019 09:38
Instrument: 10airI.i
Lab Sample ID: CAL3

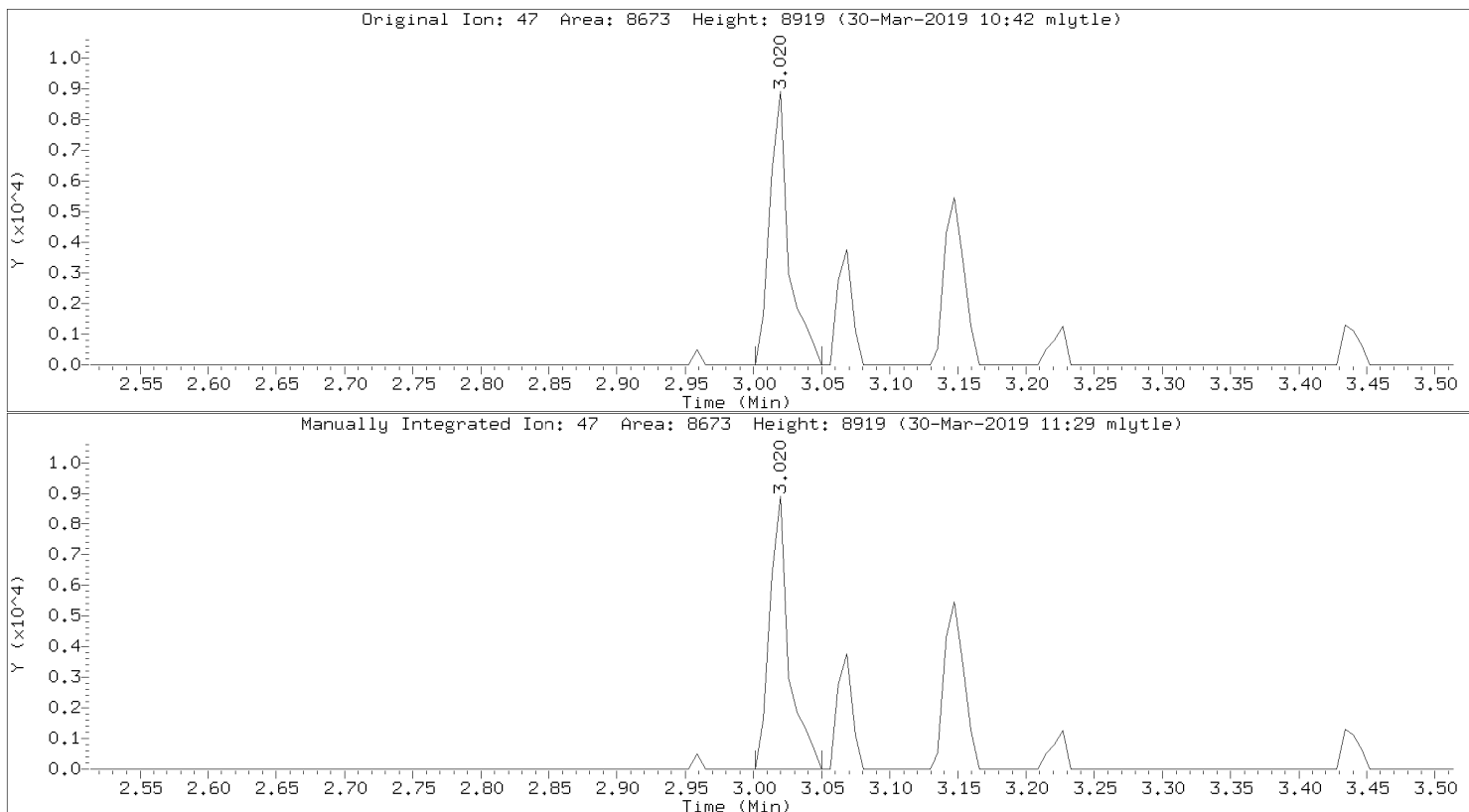


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Injection Date: 30-MAR-2019 09:38
Instrument: 10airI.i
Lab Sample ID: CAL3

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08907.D
Injection Date: 30-MAR-2019 09:38
Instrument: 10airI.i
Lab Sample ID: CAL3



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08908.D
 Report Date: 30-Mar-2019 11:29

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\033019.b\08908.D
 Lab Smp Id: CAL2
 Inj Date : 30-MAR-2019 10:05
 Operator : MJL Inst ID: 10airI.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Meth Date : 30-Mar-2019 11:29 10airI.i Quant Type: ISTD
 Cal Date : 30-MAR-2019 09:38 Cal File: 08907.D
 Als bottle: 8 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 1,1-Difluoroethane	65		3.019	3.019	(0.536)	6188	0.20000	0.210 (Q)
2 Chlorodifluoromethane	67		3.037	3.037	(0.540)	2648	0.20000	0.204
3 Propylene	41		3.044	3.044	(0.541)	12799	0.20000	0.244
4 Dichlorodifluoromethane	85		3.068	3.068	(0.545)	32625	0.20000	0.248
5 Dichlorotetrafluoroethane	85		3.147	3.147	(0.559)	23640	0.20000	0.246
6 Chloromethane	50		3.147	3.147	(0.559)	14458	0.20000	0.255
7 Vinyl chloride	62		3.220	3.220	(0.572)	9338	0.20000	0.255
8 1,3-Butadiene	54		3.257	3.257	(0.579)	7616	0.20000	0.244
9 Bromomethane	94		3.385	3.385	(0.601)	7617	0.20000	0.247
10 Chloroethane	64		3.428	3.428	(0.609)	3891	0.20000	0.233
11 Ethanol	45		3.440	3.440	(0.611)	29517	1.00000	1.40
12 Vinyl Bromide	106		3.543	3.543	(0.630)	7131	0.20000	0.246
13 Isopentane	43		3.556	3.556	(0.632)	14225	0.20000	0.276 (M)
14 Freon 123	83		3.562	3.562	(0.633)	16636	0.20000	0.234
15 Acrolein	56		3.617	3.617	(0.643)	8837	0.50000	0.551 (Q)
16 Trichlorofluoromethane	101		3.629	3.629	(0.645)	27036	0.20000	0.241
17 Acetone	43		3.653	3.653	(0.649)	138207	1.00000	1.16
18 Isopropyl Alcohol	45		3.665	3.665	(0.651)	100318	1.00000	1.17
19 Tert Butyl Alcohol (TBA)	59		3.860	3.860	(0.686)	27053	0.20000	0.229
20 Acrylonitrile	53		3.860	3.860	(0.686)	26172	0.50000	0.577
21 1,1-Dichloroethene	61		3.867	3.867	(0.687)	19316	0.20000	0.226
22 Methyl Acetate	43		3.897	3.897	(0.692)	30708	0.20000	0.242
23 Freon 113	101		3.903	3.903	(0.693)	22133	0.20000	0.242

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Methylene chloride	49		3.958	3.958	(0.703)	90924	1.00000	0.858
25 Allyl Chloride	76		3.970	3.970	(0.705)	5401	0.20000	0.246
26 Carbon Disulfide	76		4.080	4.080	(0.725)	27767	0.20000	0.224
27 trans-1,2-dichloroethene	96		4.226	4.226	(0.751)	10385	0.20000	0.228
28 Methyl Tert Butyl Ether	73		4.251	4.251	(0.755)	30821	0.20000	0.230
29 Vinyl Acetate	43		4.348	4.348	(0.773)	40309	0.20000	0.225
30 1,1-Dichloroethane	63		4.360	4.360	(0.775)	20527	0.20000	0.227
31 Methyl Ethyl Ketone	72		4.513	4.513	(0.802)	6616	0.20000	0.240
32 n-Hexane	57		4.549	4.549	(0.808)	18695	0.20000	0.215 (Q)
33 Di-isopropyl Ether	45		4.568	4.568	(0.812)	56147	0.20000	0.247
34 Ethyl Acetate	43		4.690	4.690	(0.833)	38758	0.20000	0.248
35 cis-1,2-Dichloroethene	96		4.690	4.690	(0.833)	11404	0.20000	0.232
36 Ethyl Tert-Butyl Ether	59		4.799	4.799	(0.853)	43225	0.20000	0.245
37 Chloroform	83		4.805	4.805	(0.854)	24724	0.20000	0.214 (Q)
38 Tetrahydrofuran	42		4.964	4.964	(0.882)	16300	0.20000	0.236
39 1,1,1-Trichloroethane	97		5.214	5.214	(0.926)	25675	0.20000	0.231
40 1,2-Dichloroethane	62		5.232	5.232	(0.930)	20209	0.20000	0.225
41 Benzene	78		5.458	5.458	(0.970)	34131	0.20000	0.243
42 Carbon tetrachloride	117		5.482	5.482	(0.974)	22658	0.20000	0.215
43 Cyclohexane	56		5.482	5.482	(0.974)	19956	0.20000	0.229
44 Tert Amyl Methyl Ether	73		5.616	5.616	(0.998)	45171	0.20000	0.191
* 45 1,4-Difluorobenzene	114		5.628	5.628	(1.000)	1095785	10.0000	
46 2,2,4-Trimethylpentane	57		5.775	5.775	(1.026)	62948	0.20000	0.239
47 Heptane	43		5.909	5.909	(1.050)	28489	0.20000	0.231
48 1,2-Dichloropropane	63		5.988	5.988	(1.064)	14405	0.20000	0.245
49 Trichloroethene	130		6.006	6.006	(1.067)	13765	0.20000	0.236
50 Methyl methacrylate	69		6.086	6.086	(1.081)	13039	0.20000	0.244
51 1,4-Dioxane	88		6.098	6.098	(1.083)	16767	0.50000	0.560
52 Bromodichloromethane	83		6.110	6.110	(1.086)	23816	0.20000	0.219
53 Methylcyclohexane	98		6.451	6.451	(1.146)	8318	0.20000	0.229 (Q)
54 Methyl Isobutyl Ketone	43		6.573	6.573	(1.168)	33599	0.20000	0.216
55 cis-1,3-Dichloropropene	75		6.634	6.634	(1.179)	18133	0.20000	0.207
56 trans-1,3-Dichloropropene	75		7.055	7.055	(1.253)	15537	0.20000	0.202
57 Toluene	91		7.201	7.201	(1.279)	37834	0.20000	0.233
58 1,1,2-Trichloroethane	97		7.207	7.207	(1.281)	12539	0.20000	0.222
59 Methyl Butyl Ketone	43		7.439	7.439	(0.857)	34076	0.20000	0.236 (M)
60 n-Octane	43		7.634	7.634	(0.879)	33512	0.20000	0.218
61 Dibromochloromethane	129		7.738	7.738	(0.891)	15861	0.20000	0.207
62 1,2-Dibromoethane	107		7.963	7.963	(0.917)	19808	0.20000	0.225
63 Tetrachloroethene	166		8.030	8.030	(0.925)	16549	0.20000	0.250
* 64 Chlorobenzene - d5	117		8.683	8.683	(1.000)	920872	10.0000	
65 Chlorobenzene	112		8.725	8.725	(1.005)	27547	0.20000	0.239
66 Ethyl Benzene	91		8.963	8.963	(1.032)	45188	0.20000	0.228
67 m&p-Xylene	91		9.103	9.103	(1.048)	73525	0.40000	0.486
68 n-Nonane	43		9.481	9.481	(1.092)	34412	0.20000	0.224
69 Bromoform	173		9.512	9.512	(1.095)	4168	0.20000	0.325 (M)
70 Styrene	104		9.524	9.524	(1.097)	22149	0.20000	0.210
71 o-Xylene	91		9.591	9.591	(1.105)	35434	0.20000	0.229
72 1,1,2,2-Tetrachloroethane	83		9.853	9.853	(1.135)	22917	0.20000	0.215
73 Isopropylbenzene	105		10.146	10.146	(1.169)	50315	0.20000	0.240
74 N-Propylbenzene	91		10.694	10.694	(1.232)	58778	0.20000	0.229
75 4-Ethyltoluene	105		10.853	10.853	(1.250)	42760	0.20000	0.223
76 1,3,5-Trimethylbenzene	105		10.938	10.938	(1.260)	38535	0.20000	0.233
77 n-Decane	57		11.274	11.274	(2.003)	28111	0.20000	0.214

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
78 Tert-Butyl Benzene	119		11.396	11.396	(1.312)	39510	0.20000	0.233
79 1,2,4-Trimethylbenzene	105		11.414	11.414	(1.315)	38243	0.20000	0.233
80 Sec- Butylbenzene	105		11.676	11.676	(1.345)	56183	0.20000	0.241
81 1,3-Dichlorobenzene	146		11.676	11.676	(1.345)	19886	0.20000	0.224
82 Benzyl Chloride	91		11.743	11.743	(1.352)	16806	0.20000	0.167
83 1,4-Dichlorobenzene	146		11.761	11.761	(1.355)	19172	0.20000	0.226
84 p-Isopropyltoluene	119		11.841	11.841	(1.364)	41490	0.20000	0.226
85 1,2,3-Trimethylbenzene	105		11.883	11.883	(1.369)	37026	0.20000	0.235
86 1,2-Dichlorobenzene	146		12.115	12.115	(1.395)	19192	0.20000	0.222
87 N-Butylbenzene	91		12.273	12.273	(1.414)	41642	0.20000	0.229
88 1,2-Dibromo-3-Chloropropane	157		12.700	12.700	(1.463)	6039	0.20000	0.188
89 1,2,4-Trichlorobenzene	180		13.730	13.730	(1.581)	10426	0.20000	0.218
90 Naphthalene	128		13.846	13.846	(1.595)	25408	0.20000	0.211
91 Hexachlorobutadiene	225		14.047	14.047	(1.618)	13121	0.20000	0.229

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08908.D
 Report Date: 30-Mar-2019 11:29

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 10airI.i
 Lab File ID: 08908.D
 Lab Smp Id: CAL2
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: MJL
 Method File: \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Misc Info:

Calibration Date: 30-MAR-2019
 Calibration Time: 08:43
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	1148342	689005	1607679	1095785	-4.58
64 Chlorobenzene - d	994820	596892	1392748	920872	-7.43

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.63	5.30	5.96	5.63	-0.00
64 Chlorobenzene - d	8.68	8.35	9.01	8.68	-0.00

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

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08908.D

Date : 30-MAR-2019 10:05

Client ID:

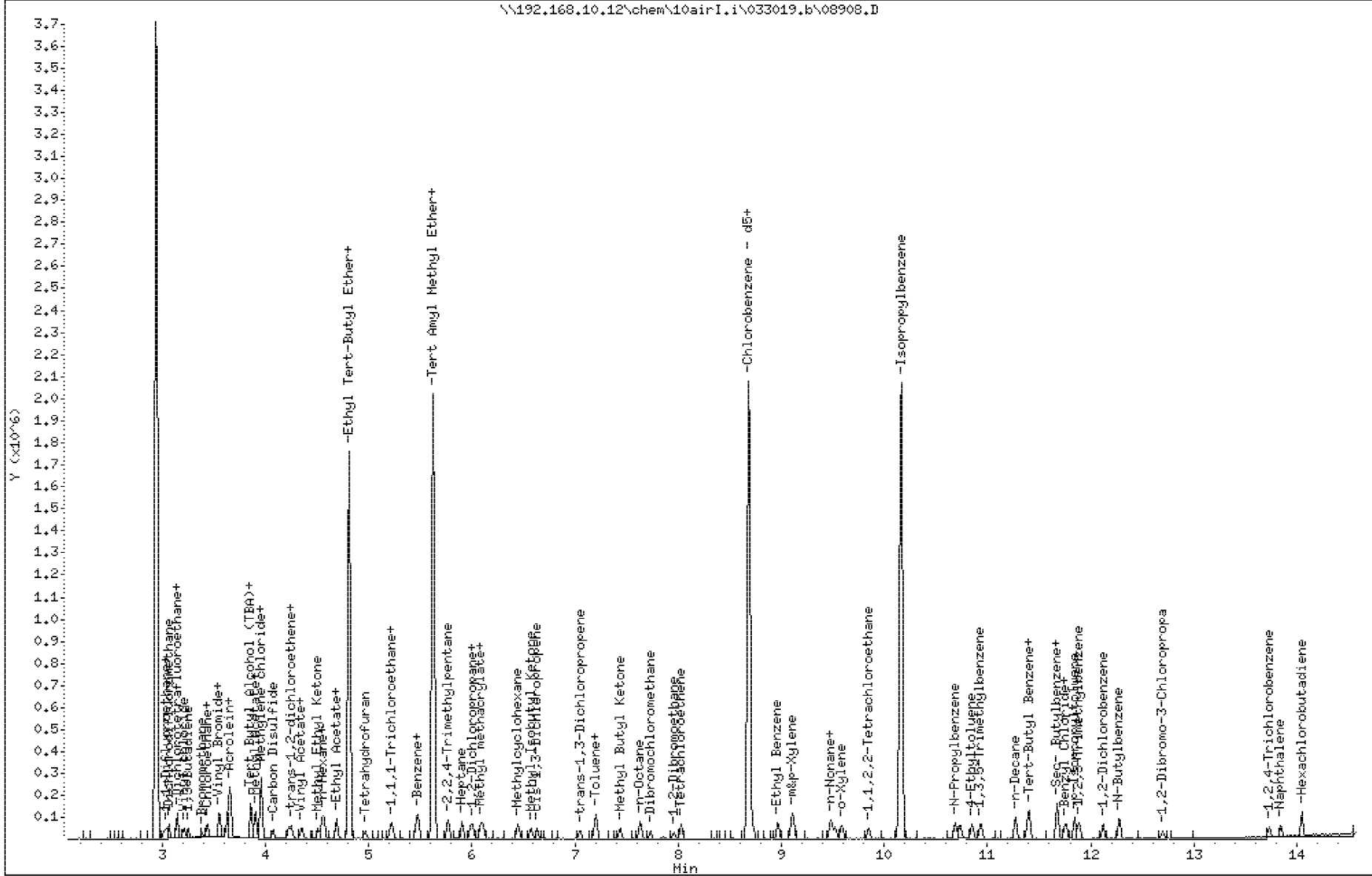
Instrument: 10airI.i

Sample Info:

Operator: MJL

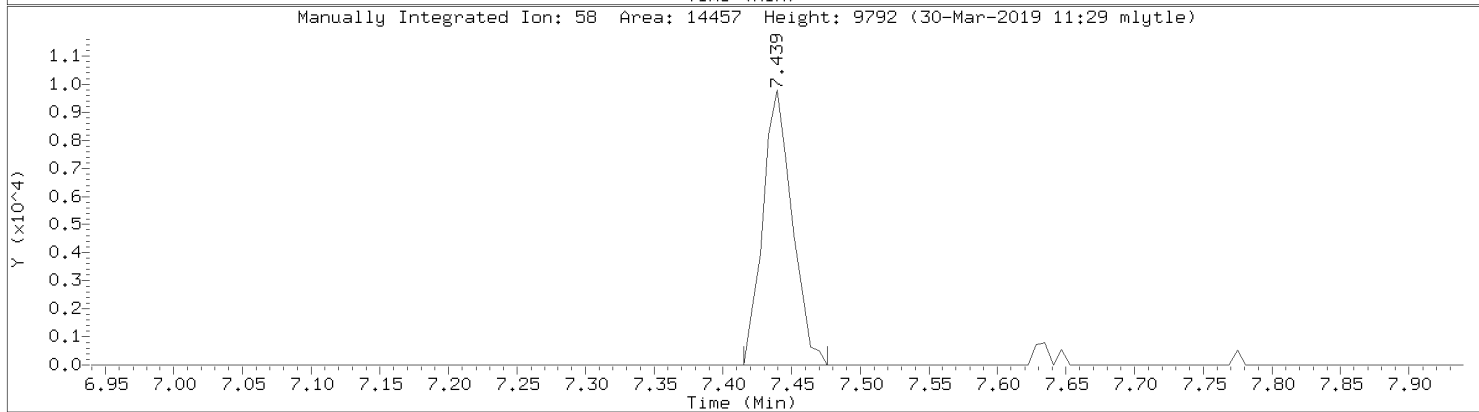
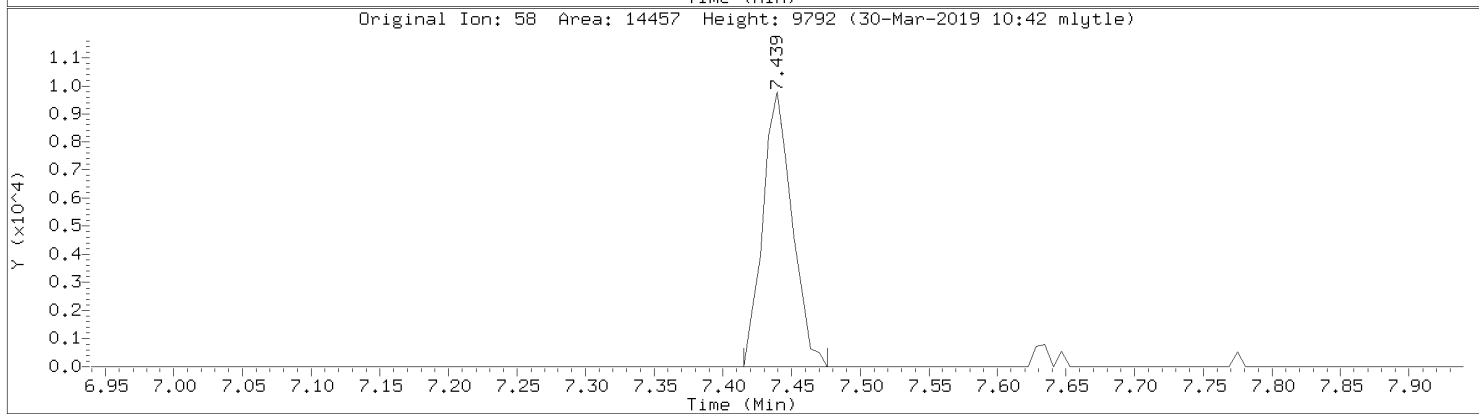
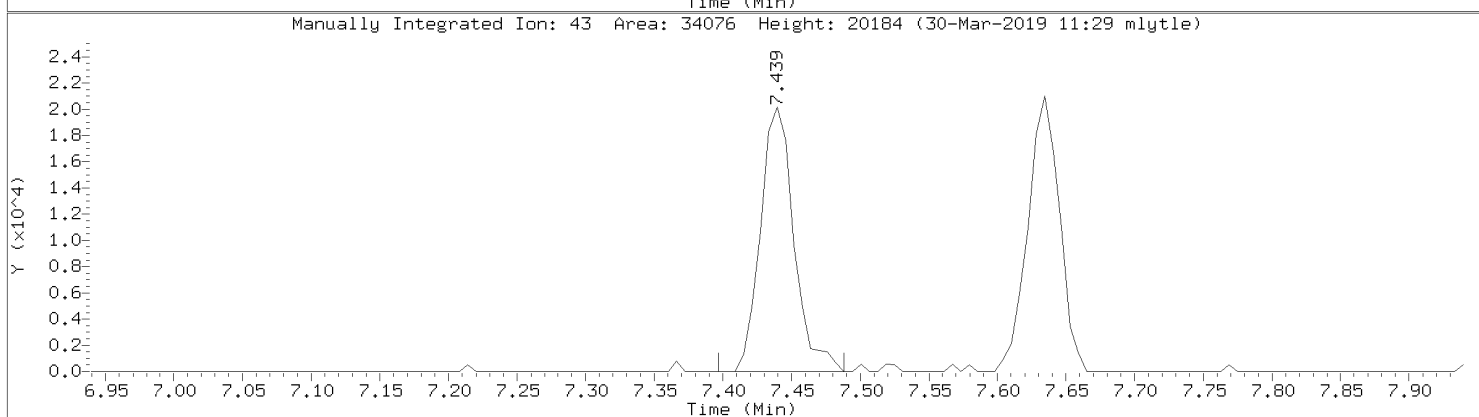
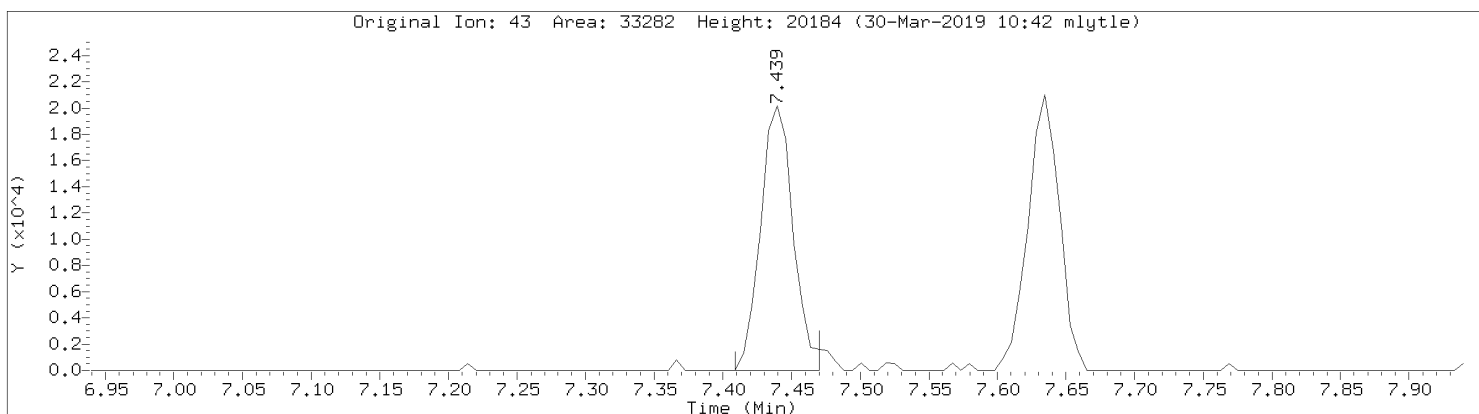
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Column diameter: 0.32



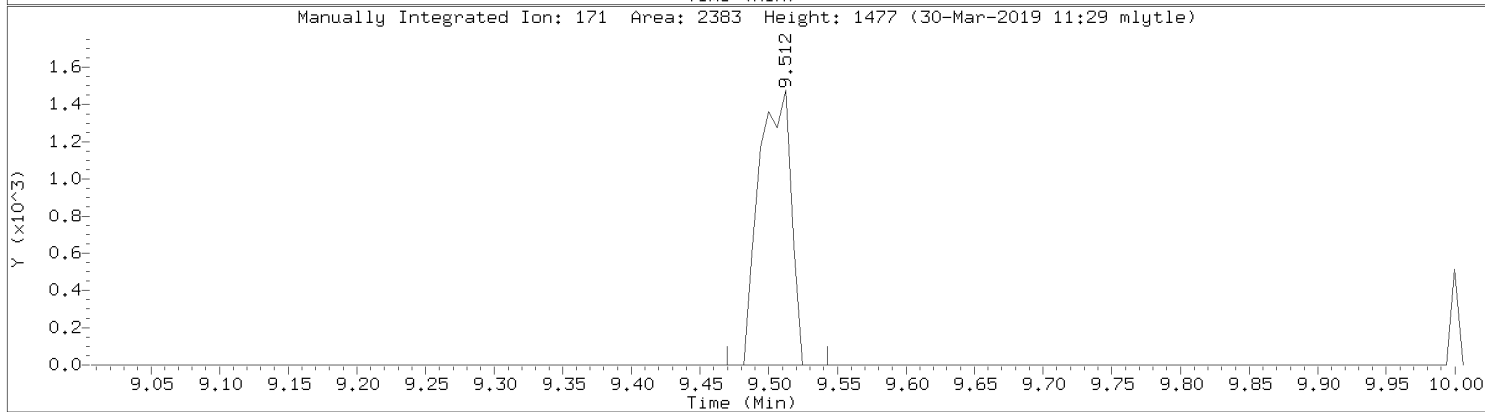
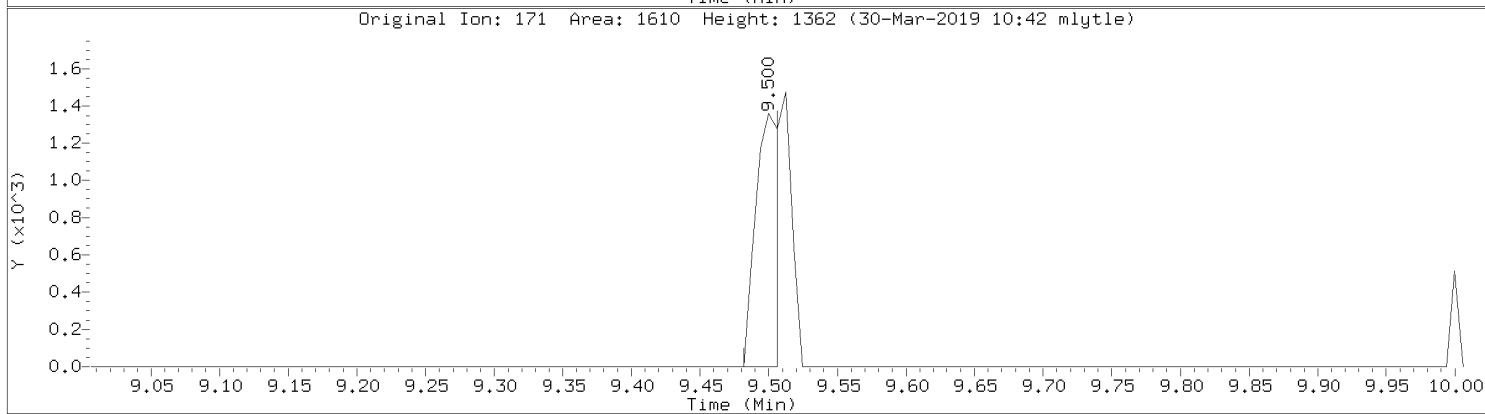
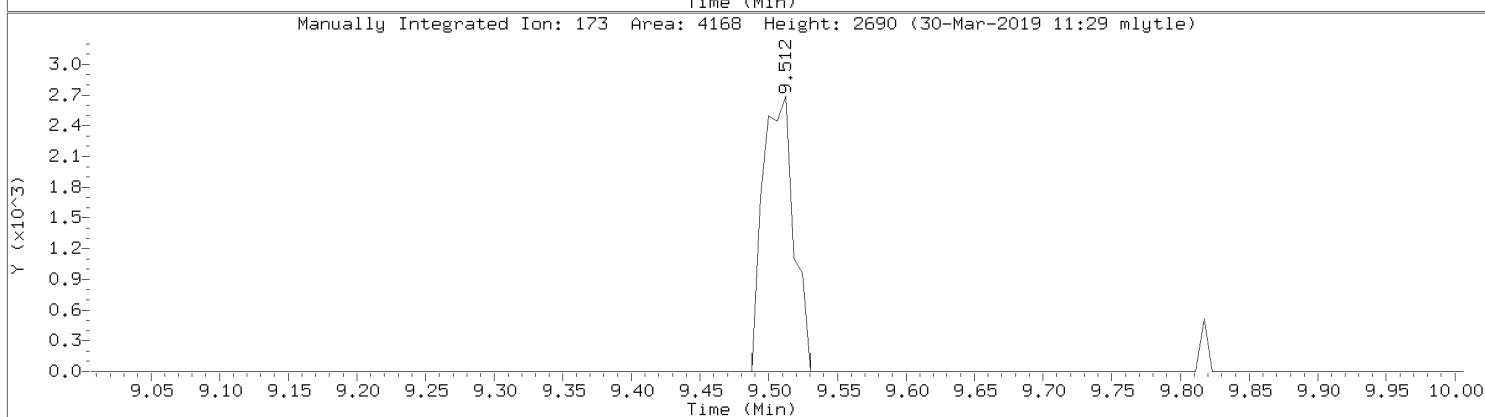
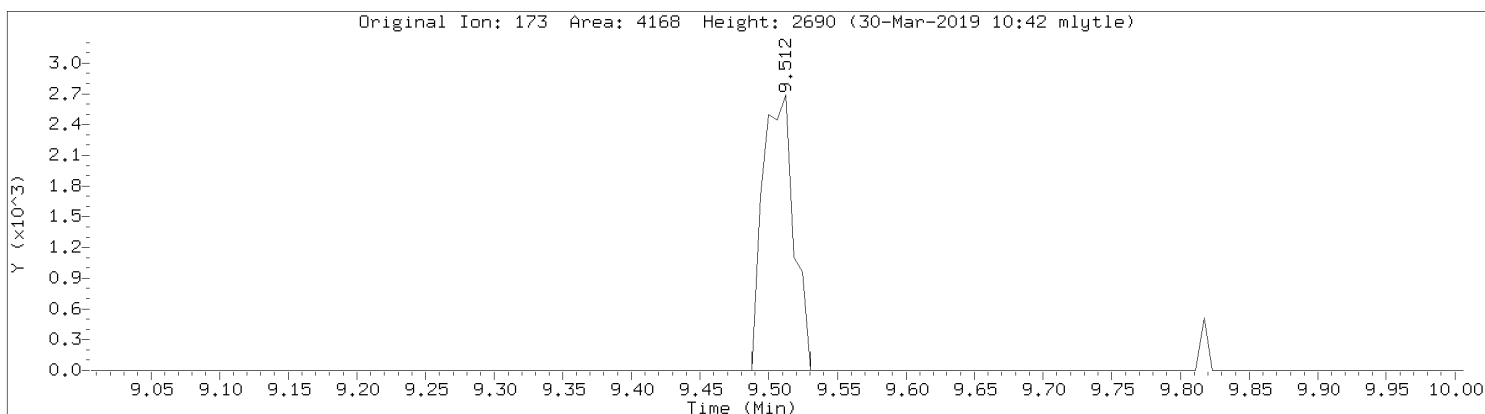
Data File: \\192.168.10.12\chem\10airI.i\033019.b\08908.D
Injection Date: 30-MAR-2019 10:05
Instrument: 10airI.i
Lab Sample ID: CAL2

Compound: Methyl Butyl Ketone
CAS Number: 591-78-6



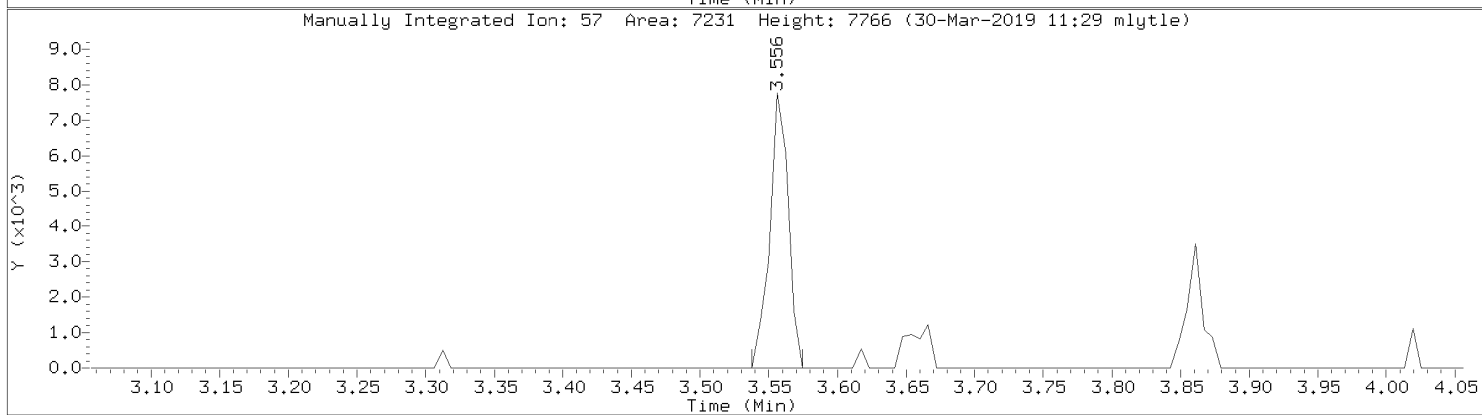
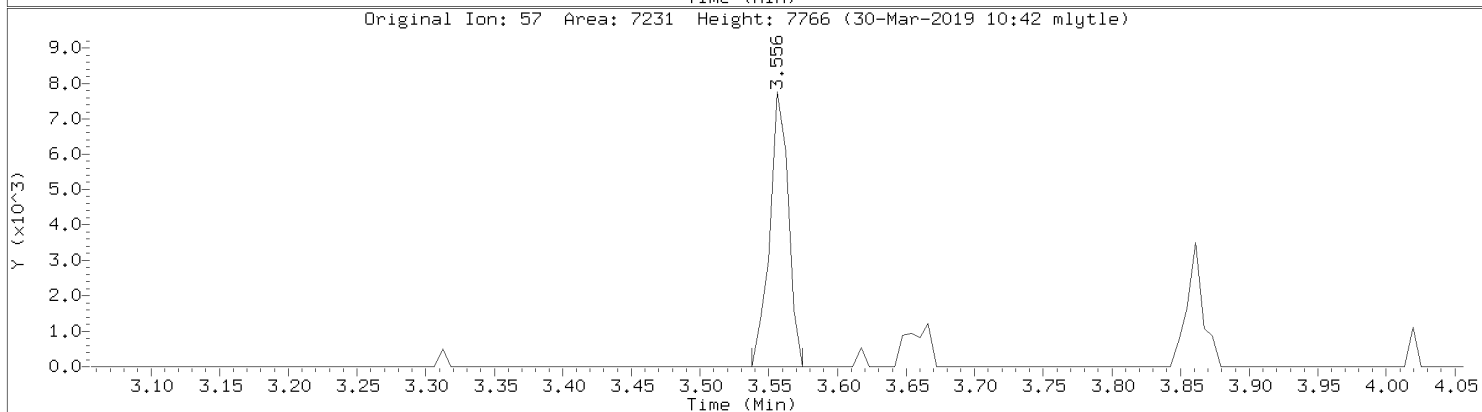
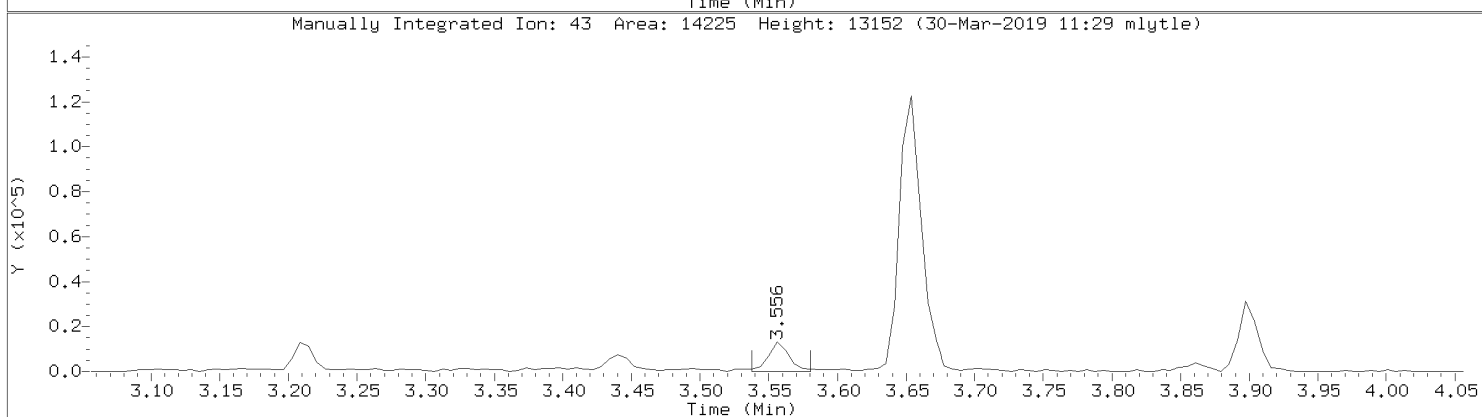
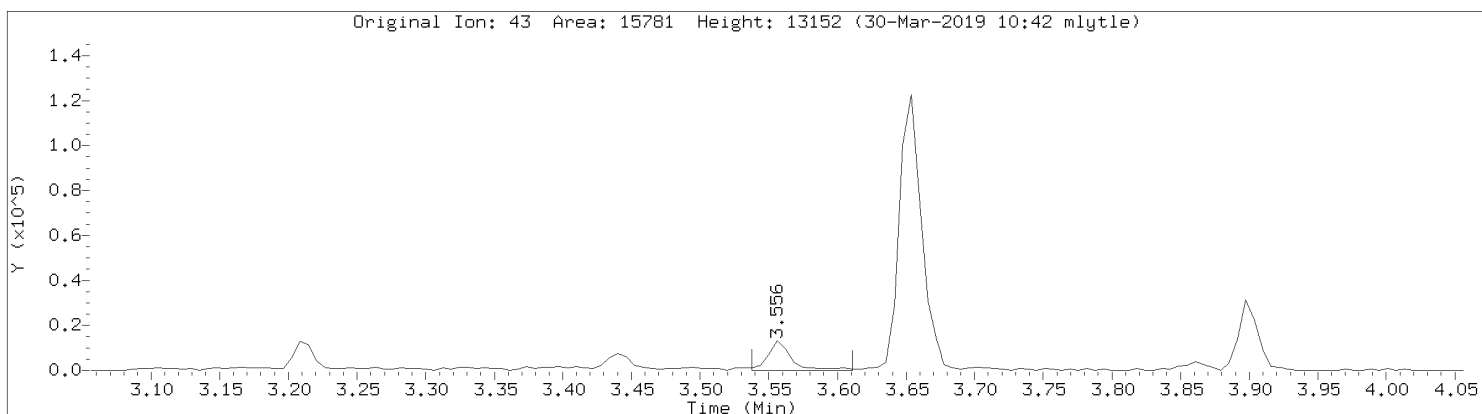
Data File: \\192.168.10.12\chem\10airI.i\033019.b\08908.D
Injection Date: 30-MAR-2019 10:05
Instrument: 10airI.i
Lab Sample ID: CAL2

Compound: Bromoform
CAS Number: 75-25-2

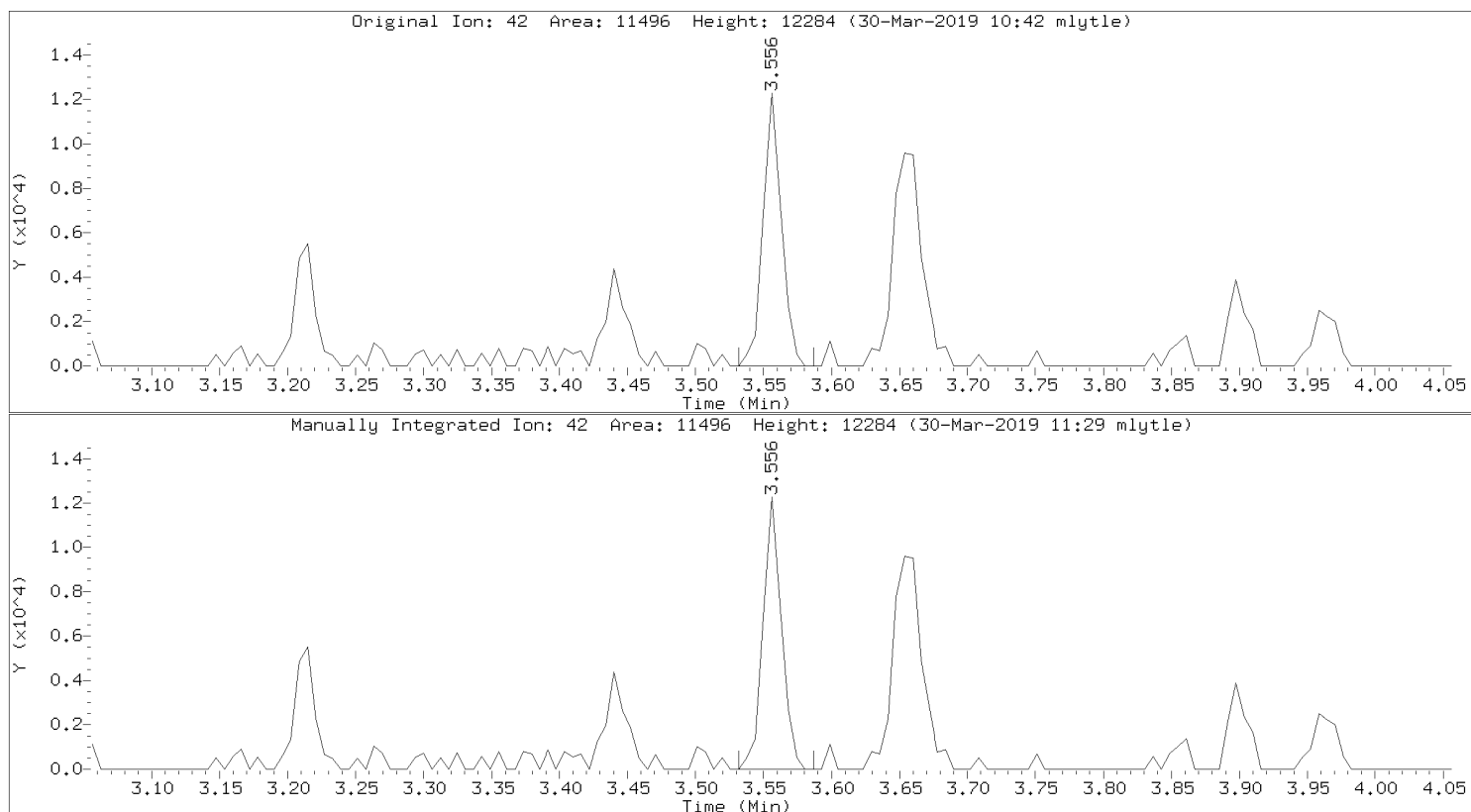


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08908.D
Injection Date: 30-MAR-2019 10:05
Instrument: 10airI.i
Lab Sample ID: CAL2

Compound: Isopentane
CAS Number: 78-78-4



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08908.D
Injection Date: 30-MAR-2019 10:05
Instrument: 10airI.i
Lab Sample ID: CAL2



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\033019.b\08909.D
 Lab Smp Id: CAL1
 Inj Date : 30-MAR-2019 10:33
 Operator : MJL Inst ID: 10airI.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Meth Date : 30-Mar-2019 11:29 10airI.i Quant Type: ISTD
 Cal Date : 30-MAR-2019 10:05 Cal File: 08908.D
 Als bottle: 9 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 1,1-Difluoroethane	65		3.013	3.013	(0.535)	4454	0.10000	0.159 (QM)
2 Chlorodifluoromethane	67		3.025	3.025	(0.538)	1365	0.10000	0.111 (M)
3 Propylene	41		3.044	3.044	(0.541)	7029	0.10000	0.141
4 Dichlorodifluoromethane	85		3.068	3.068	(0.545)	18414	0.10000	0.147
5 Dichlorotetrafluoroethane	85		3.147	3.147	(0.559)	13301	0.10000	0.146
6 Chloromethane	50		3.147	3.147	(0.559)	7399	0.10000	0.137
7 Vinyl chloride	62		3.220	3.220	(0.572)	4376	0.10000	0.125
8 1,3-Butadiene	54		3.257	3.257	(0.579)	3268	0.10000	0.110 (Q)
9 Bromomethane	94		3.391	3.391	(0.603)	3569	0.10000	0.121 (Q)
10 Chloroethane	64		3.434	3.434	(0.610)	2153	0.10000	0.135
11 Ethanol	45		3.440	3.440	(0.611)	17607	0.50000	0.876
12 Vinyl Bromide	106		3.543	3.543	(0.630)	3335	0.10000	0.121
13 Isopentane	43		3.556	3.556	(0.632)	8443	0.10000	0.172
14 Freon 123	83		3.562	3.562	(0.633)	8750	0.10000	0.129
15 Acrolein	56		3.617	3.617	(0.643)	5188	0.25000	0.340
16 Trichlorofluoromethane	101		3.635	3.635	(0.646)	14898	0.10000	0.140
17 Acetone	43		3.653	3.653	(0.649)	76479	0.50000	0.675
18 Isopropyl Alcohol	45		3.659	3.659	(0.650)	57362	0.50000	0.704
19 Tert Butyl Alcohol (TBA)	59		3.860	3.860	(0.686)	15014	0.10000	0.134
20 Acrylonitrile	53		3.860	3.860	(0.686)	15067	0.25000	0.349
21 1,1-Dichloroethene	61		3.867	3.867	(0.687)	10927	0.10000	0.134
22 Methyl Acetate	43		3.903	3.903	(0.693)	16895	0.10000	0.140
23 Freon 113	101		3.903	3.903	(0.693)	11135	0.10000	0.128

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Methylene chloride	49		3.958	3.958	(0.703)	50086	0.50000	0.327
25 Allyl Chloride	76		3.964	3.964	(0.704)	2545	0.10000	0.122 (Q)
26 Carbon Disulfide	76		4.080	4.080	(0.725)	15679	0.10000	0.133
27 trans-1,2-dichloroethene	96		4.226	4.226	(0.751)	5135	0.10000	0.118
28 Methyl Tert Butyl Ether	73		4.251	4.251	(0.755)	16926	0.10000	0.133
29 Vinyl Acetate	43		4.348	4.348	(0.773)	24287	0.10000	0.143 (M)
30 1,1-Dichloroethane	63		4.366	4.366	(0.776)	11397	0.10000	0.133
31 Methyl Ethyl Ketone	72		4.513	4.513	(0.802)	3706	0.10000	0.141 (Q)
32 n-Hexane	57		4.549	4.549	(0.808)	13073	0.10000	0.158 (Q)
33 Di-isopropyl Ether	45		4.568	4.568	(0.812)	29623	0.10000	0.137
34 Ethyl Acetate	43		4.690	4.690	(0.833)	20685	0.10000	0.139
35 cis-1,2-Dichloroethene	96		4.690	4.690	(0.833)	6815	0.10000	0.146
36 Ethyl Tert-Butyl Ether	59		4.799	4.799	(0.853)	21716	0.10000	0.129
37 Chloroform	83		4.805	4.805	(0.854)	14295	0.10000	0.122 (Q)
38 Tetrahydrofuran	42		4.964	4.964	(0.882)	7748	0.10000	0.118
39 1,1,1-Trichloroethane	97		5.214	5.214	(0.926)	13546	0.10000	0.128
40 1,2-Dichloroethane	62		5.232	5.232	(0.930)	11519	0.10000	0.135
41 Benzene	78		5.458	5.458	(0.970)	17367	0.10000	0.130
42 Carbon tetrachloride	117		5.476	5.476	(0.973)	12377	0.10000	0.124
43 Cyclohexane	56		5.482	5.482	(0.974)	11211	0.10000	0.135
44 Tert Amyl Methyl Ether	73		5.622	5.622	(0.999)	31891	0.10000	0.109 (M)
* 45 1,4-Difluorobenzene	114		5.628	5.628	(1.000)	1041909	10.0000	
46 2,2,4-Trimethylpentane	57		5.769	5.769	(1.025)	36720	0.10000	0.147
47 Heptane	43		5.909	5.909	(1.050)	15662	0.10000	0.133
48 1,2-Dichloropropane	63		5.988	5.988	(1.064)	7492	0.10000	0.134
49 Trichloroethene	130		6.006	6.006	(1.067)	7037	0.10000	0.127
50 Methyl methacrylate	69		6.086	6.086	(1.081)	6979	0.10000	0.137
51 1,4-Dioxane	88		6.098	6.098	(1.083)	9076	0.25000	0.319 (M)
52 Bromodichloromethane	83		6.110	6.110	(1.086)	13051	0.10000	0.126
53 Methylcyclohexane	98		6.458	6.458	(1.147)	4205	0.10000	0.122 (Q)
54 Methyl Isobutyl Ketone	43		6.579	6.579	(1.169)	20042	0.10000	0.135
55 cis-1,3-Dichloropropene	75		6.640	6.640	(1.180)	11370	0.10000	0.136
56 trans-1,3-Dichloropropene	75		7.055	7.055	(1.253)	9423	0.10000	0.129
57 Toluene	91		7.195	7.195	(1.278)	21147	0.10000	0.137
58 1,1,2-Trichloroethane	97		7.201	7.201	(1.279)	7262	0.10000	0.135
59 Methyl Butyl Ketone	43		7.439	7.439	(0.857)	18409	0.10000	0.131
60 n-Octane	43		7.634	7.634	(0.879)	20448	0.10000	0.137
61 Dibromochloromethane	129		7.744	7.744	(0.892)	7687	0.10000	0.103
62 1,2-Dibromoethane	107		7.963	7.963	(0.917)	11873	0.10000	0.139
63 Tetrachloroethene	166		8.036	8.036	(0.926)	8077	0.10000	0.126
* 64 Chlorobenzene - d5	117		8.683	8.683	(1.000)	895812	10.0000	
65 Chlorobenzene	112		8.725	8.725	(1.005)	13992	0.10000	0.125
66 Ethyl Benzene	91		8.963	8.963	(1.032)	24221	0.10000	0.125
67 m&p-Xylene	91		9.103	9.103	(1.048)	37814	0.20000	0.257
68 n-Nonane	43		9.475	9.475	(1.091)	19016	0.10000	0.127
69 Bromoform	173		9.506	9.506	(1.095)	2380	0.10000	0.298 (QM)
70 Styrene	104		9.524	9.524	(1.097)	12565	0.10000	0.122
71 o-Xylene	91		9.591	9.591	(1.105)	18106	0.10000	0.120
72 1,1,2,2-Tetrachloroethane	83		9.847	9.847	(1.134)	13258	0.10000	0.128
73 Isopropylbenzene	105		10.146	10.146	(1.169)	26139	0.10000	0.128
74 N-Propylbenzene	91		10.688	10.688	(1.231)	30811	0.10000	0.123
75 4-Ethyltoluene	105		10.853	10.853	(1.250)	21622	0.10000	0.116
76 1,3,5-Trimethylbenzene	105		10.938	10.938	(1.260)	19017	0.10000	0.118
77 n-Decane	57		11.274	11.274	(2.003)	14822	0.10000	0.119

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
78 Tert-Butyl Benzene	119		11.396	11.396	(1.312)	20246	0.10000	0.123
79 1,2,4-Trimethylbenzene	105		11.408	11.408	(1.314)	20707	0.10000	0.130
80 Sec- Butylbenzene	105		11.676	11.676	(1.345)	28412	0.10000	0.125
81 1,3-Dichlorobenzene	146		11.676	11.676	(1.345)	11113	0.10000	0.129
82 Benzyl Chloride	91		11.743	11.743	(1.352)	9083	0.10000	0.0928
83 1,4-Dichlorobenzene	146		11.767	11.767	(1.355)	10117	0.10000	0.123
84 p-Isopropyltoluene	119		11.847	11.847	(1.364)	21951	0.10000	0.123
85 1,2,3-Trimethylbenzene	105		11.883	11.883	(1.369)	18171	0.10000	0.119
86 1,2-Dichlorobenzene	146		12.121	12.121	(1.396)	11014	0.10000	0.131
87 N-Butylbenzene	91		12.273	12.273	(1.414)	21462	0.10000	0.121
88 1,2-Dibromo-3-Chloropropane	157		12.700	12.700	(1.463)	3169	0.10000	0.102
89 1,2,4-Trichlorobenzene	180		13.737	13.737	(1.582)	4889	0.10000	0.105(Q)
90 Naphthalene	128		13.846	13.846	(1.595)	12952	0.10000	0.111
91 Hexachlorobutadiene	225		14.048	14.048	(1.618)	7297	0.10000	0.131

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08909.D
Report Date: 30-Mar-2019 11:29

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airI.i
Lab File ID: 08909.D
Lab Smp Id: CAL1
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
Misc Info:

Calibration Date: 30-MAR-2019
Calibration Time: 08:43

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	1148342	689005	1607679	1041909	-9.27
64 Chlorobenzene - d	994820	596892	1392748	895812	-9.95

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.63	5.30	5.96	5.63	0.00
64 Chlorobenzene - d	8.68	8.35	9.01	8.68	0.00

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

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08909.D

Date : 30-MAR-2019 10:33

Client ID:

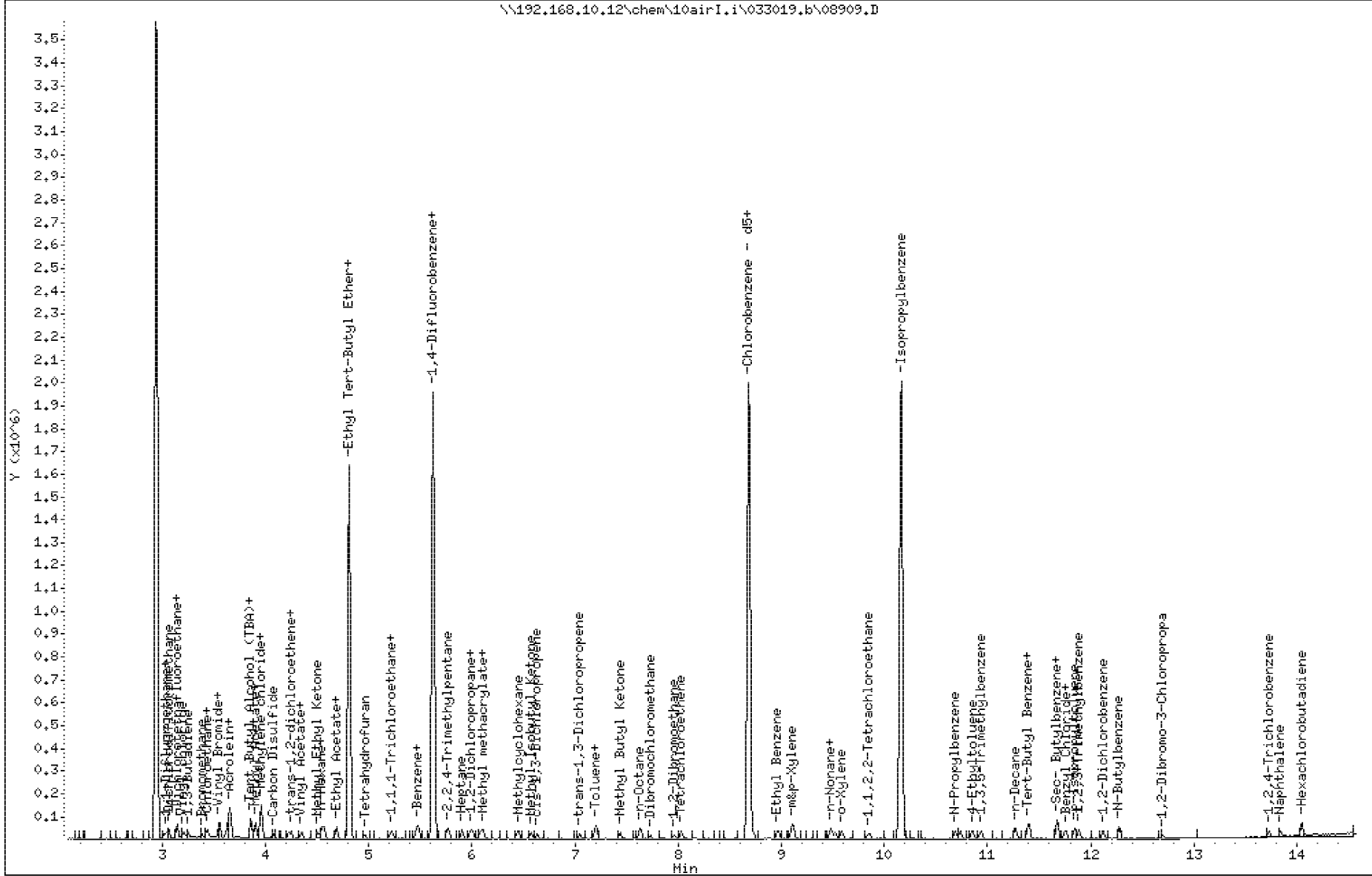
Instrument: 10airI.i

Sample Info:

Operator: MJL

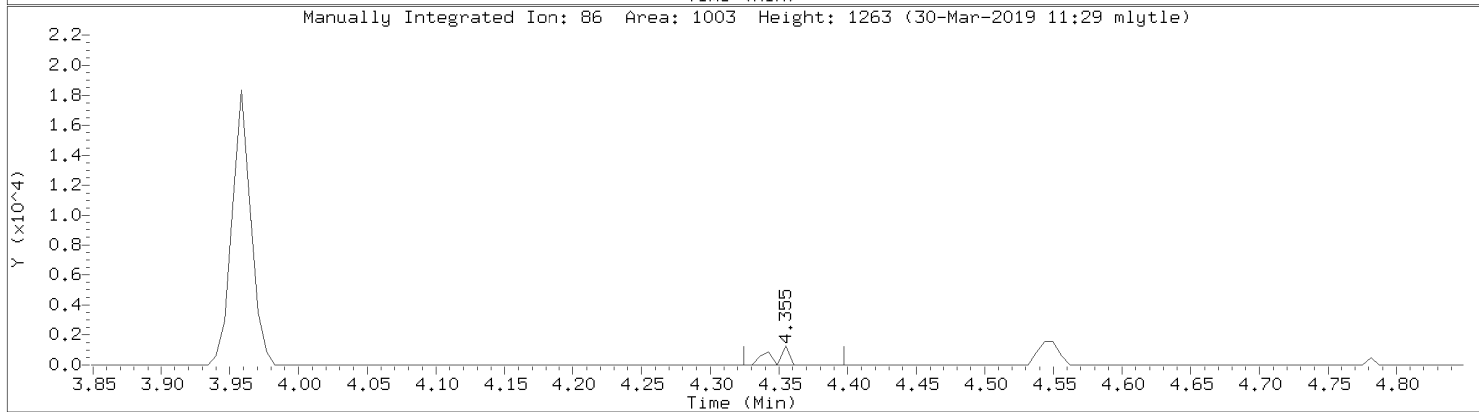
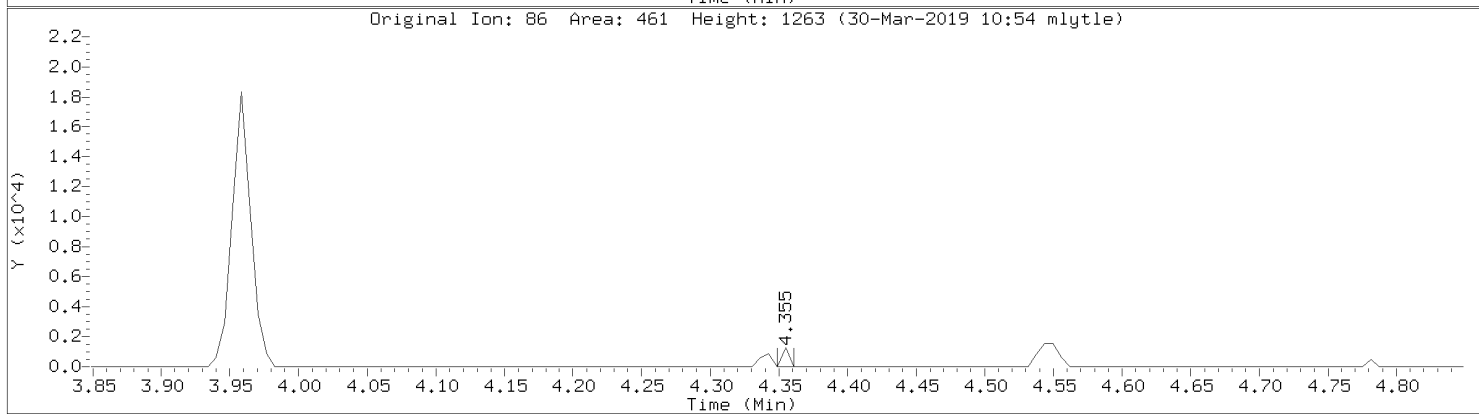
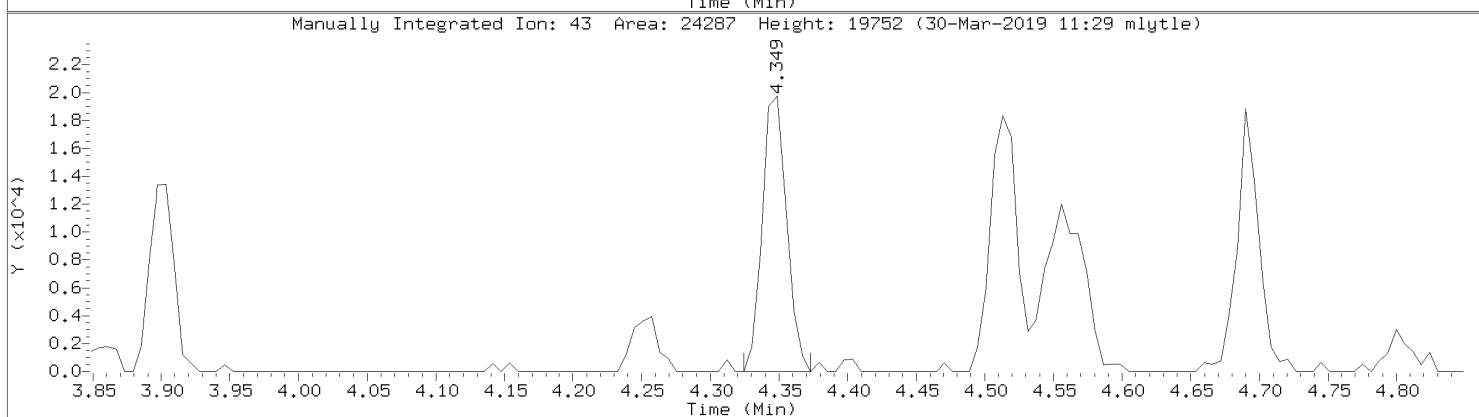
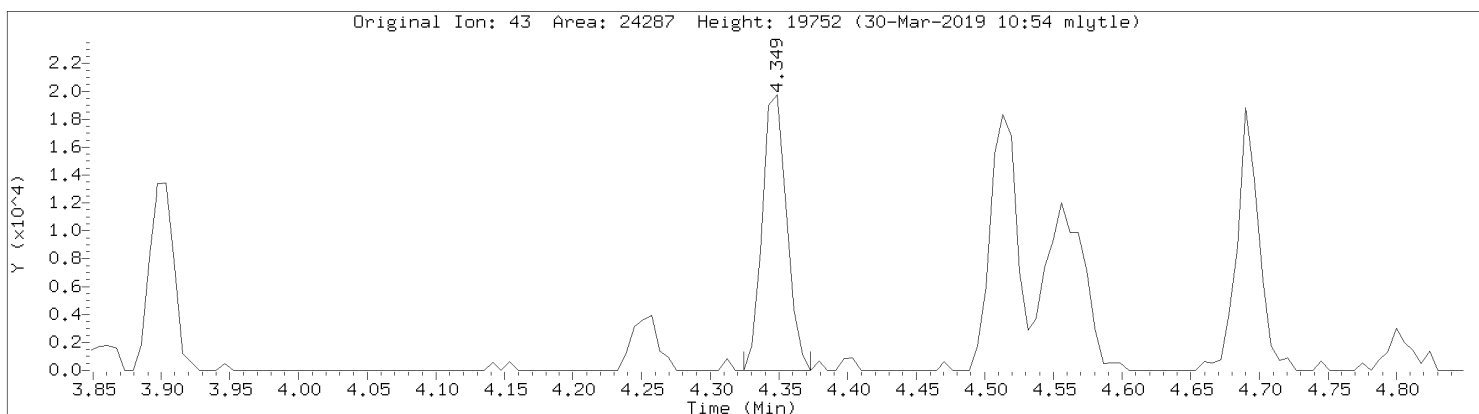
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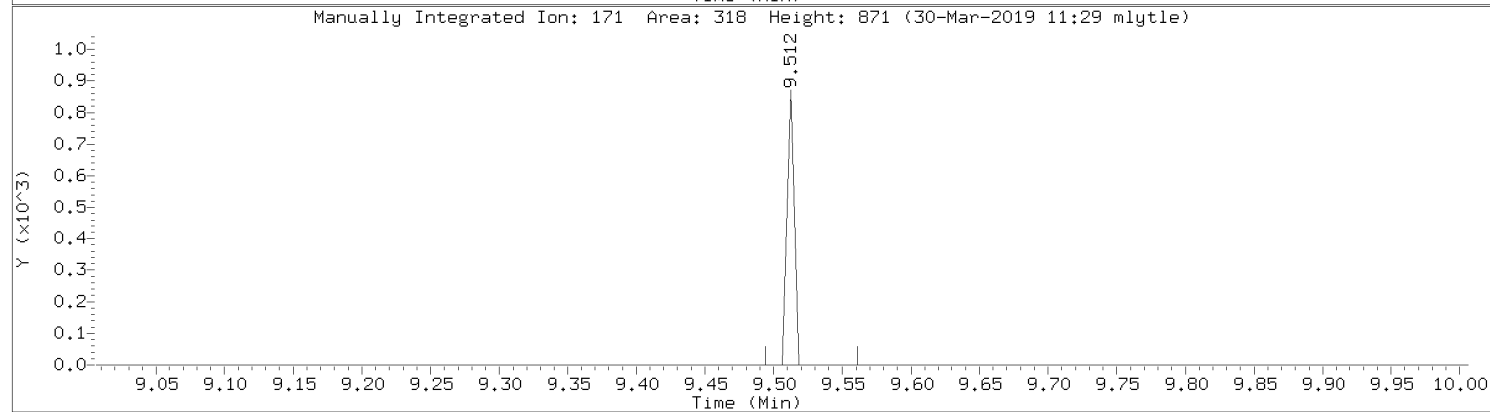
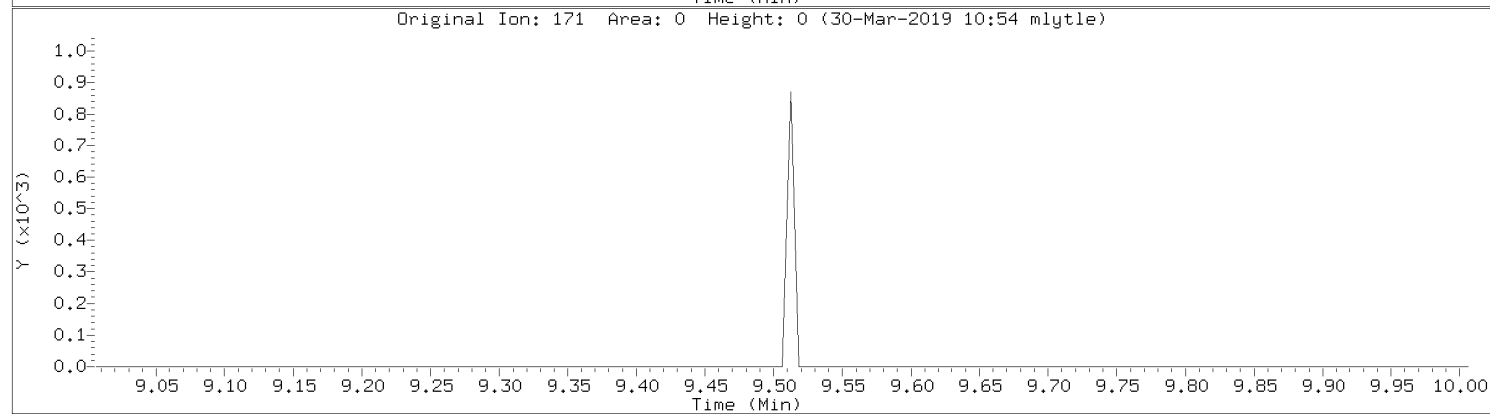
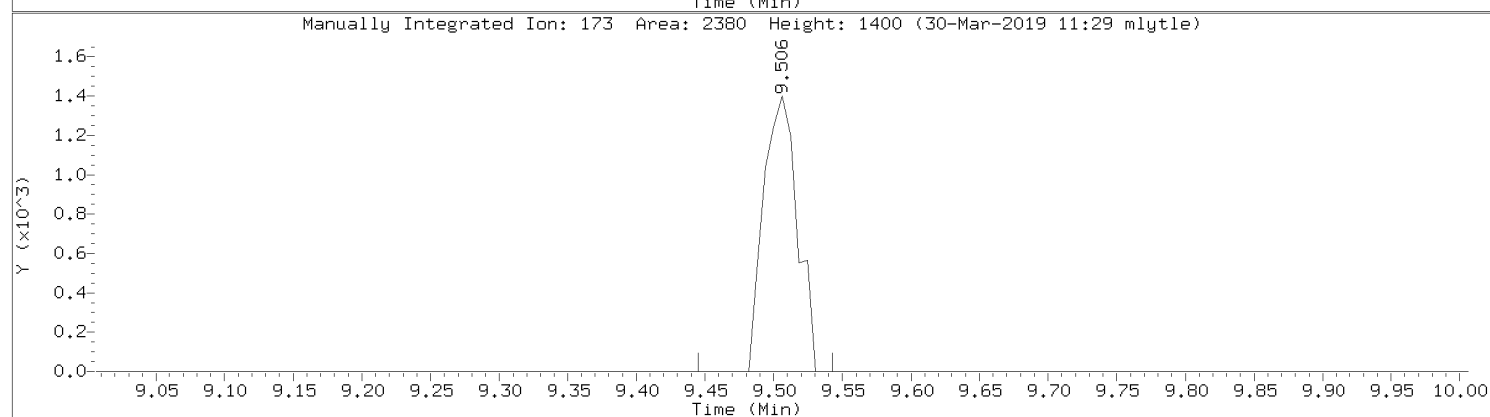
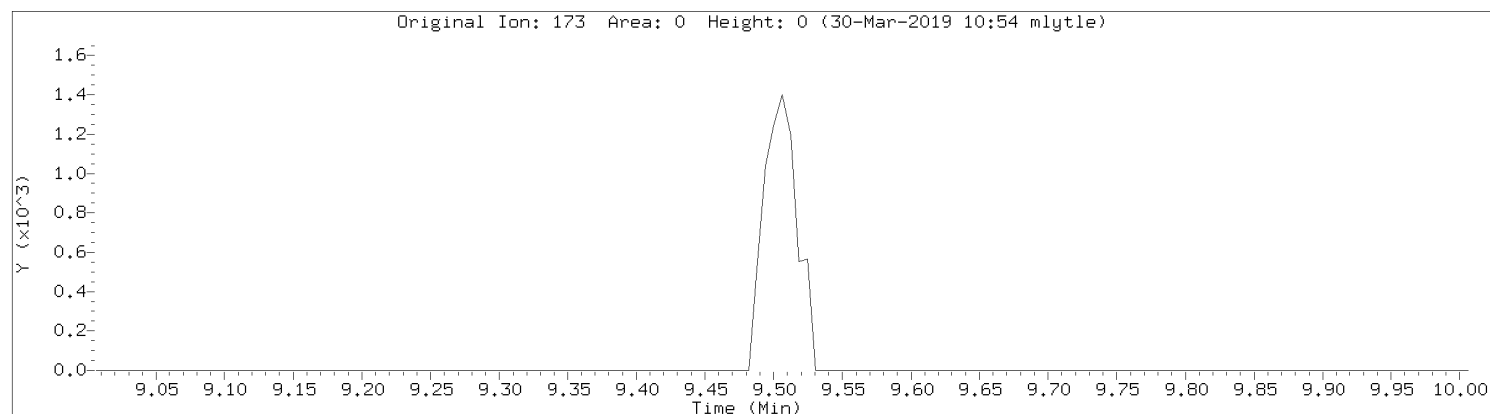
Data File: \\192.168.10.12\chem\10airI.i\033019.b\08909.D
Injection Date: 30-MAR-2019 10:33
Instrument: 10airI.i
Lab Sample ID: CAL1

Compound: Vinyl Acetate
CAS Number: 108-05-4



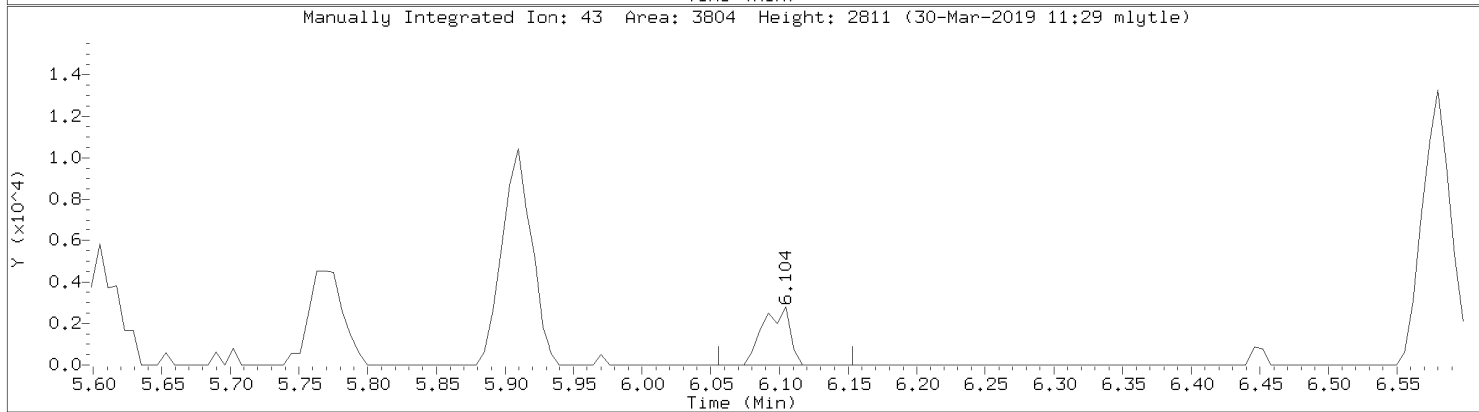
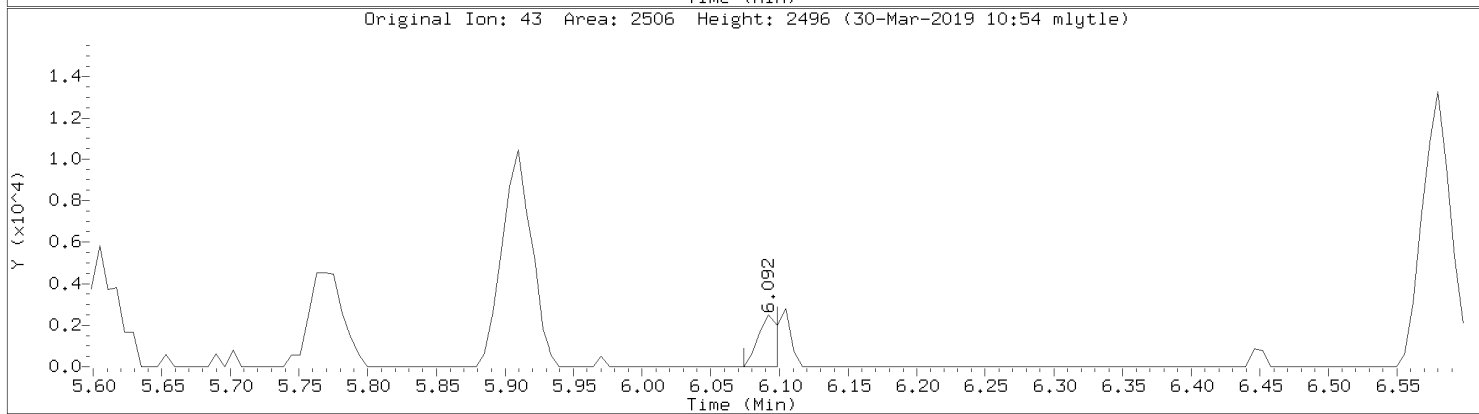
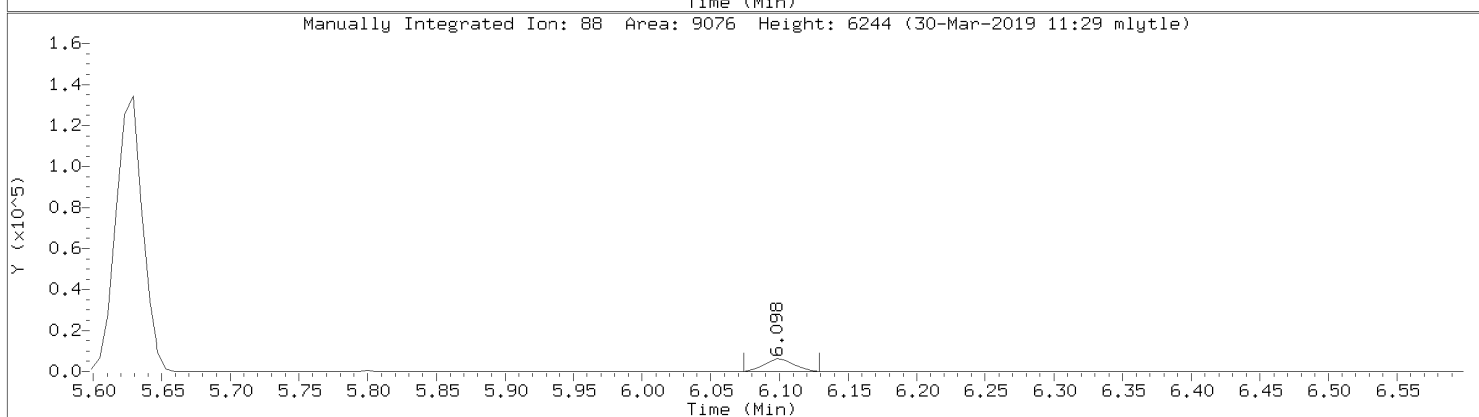
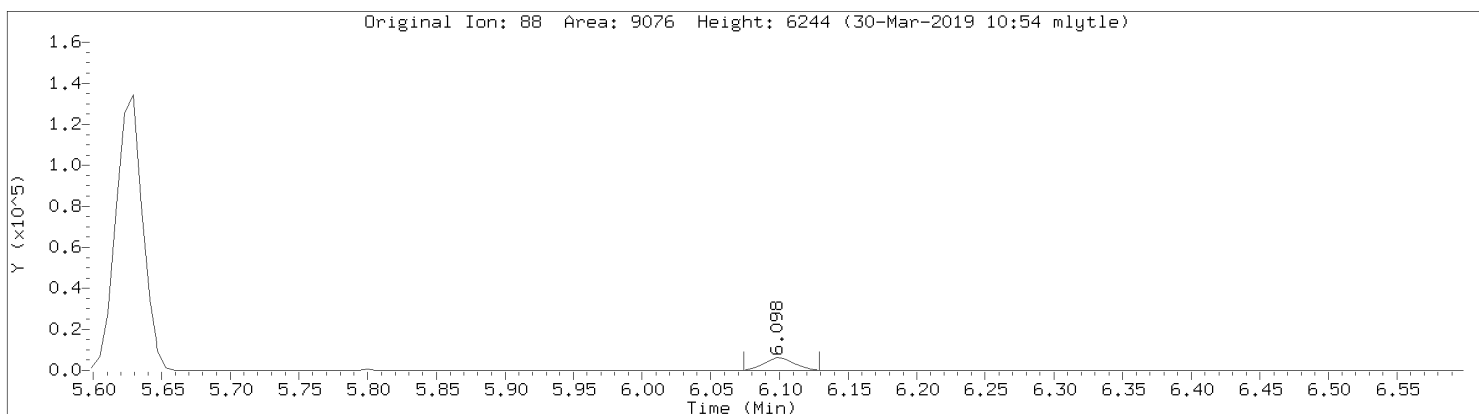
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Injection Date: 30-MAR-2019 10:33
Instrument: 10airI.i
Lab Sample ID: CAL1

Compound: Bromoform
CAS Number: 75-25-2



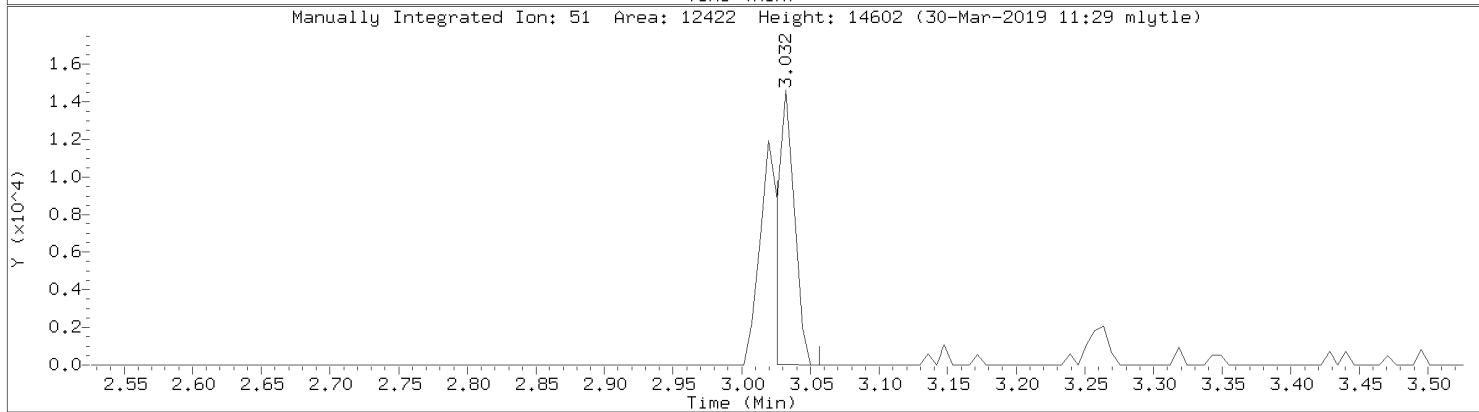
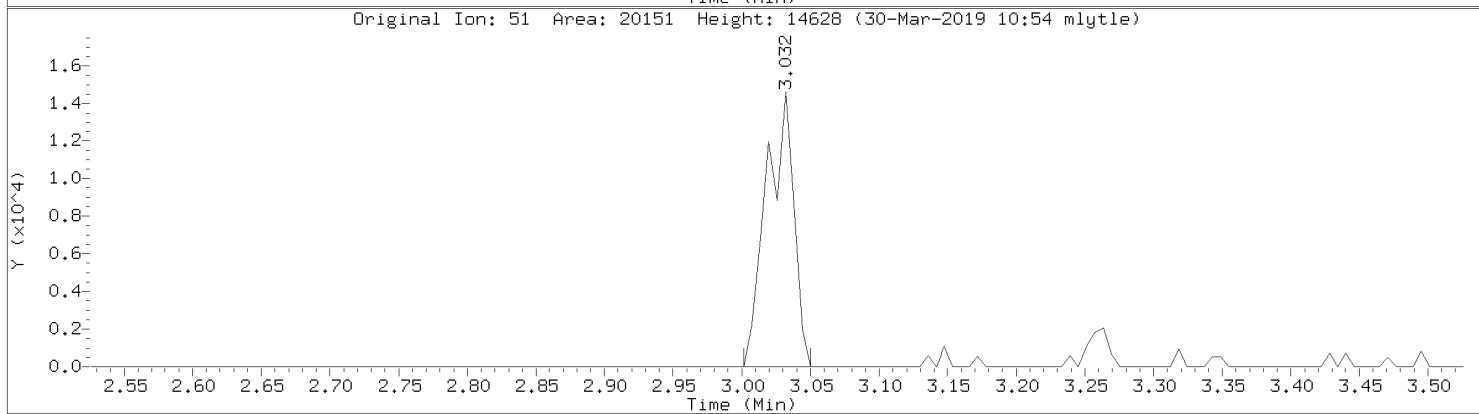
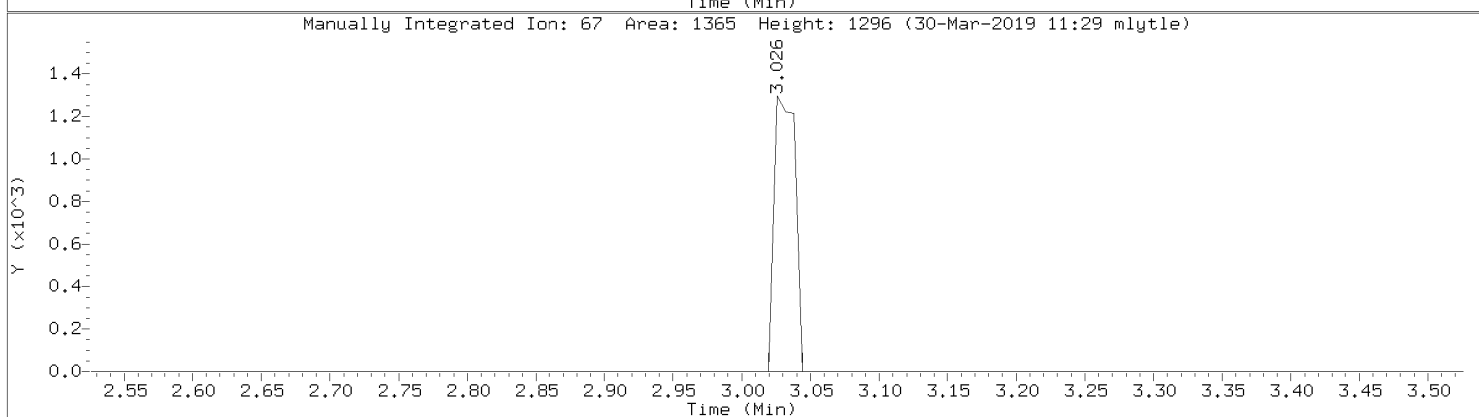
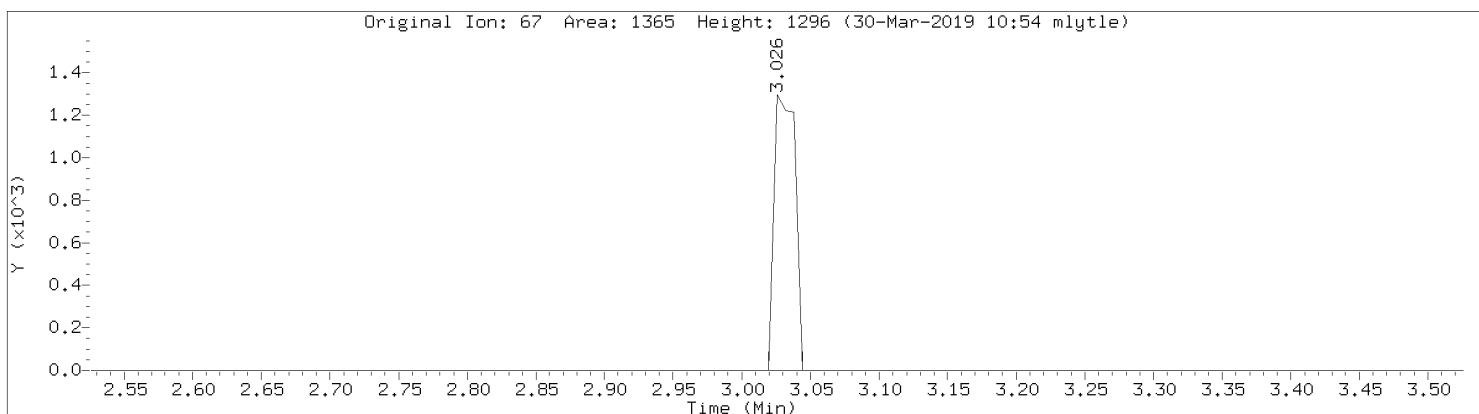
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Instrument: 10airI.i
Lab Sample ID: CAL1

Compound: 1,4-Dioxane
CAS Number: 123-91-1

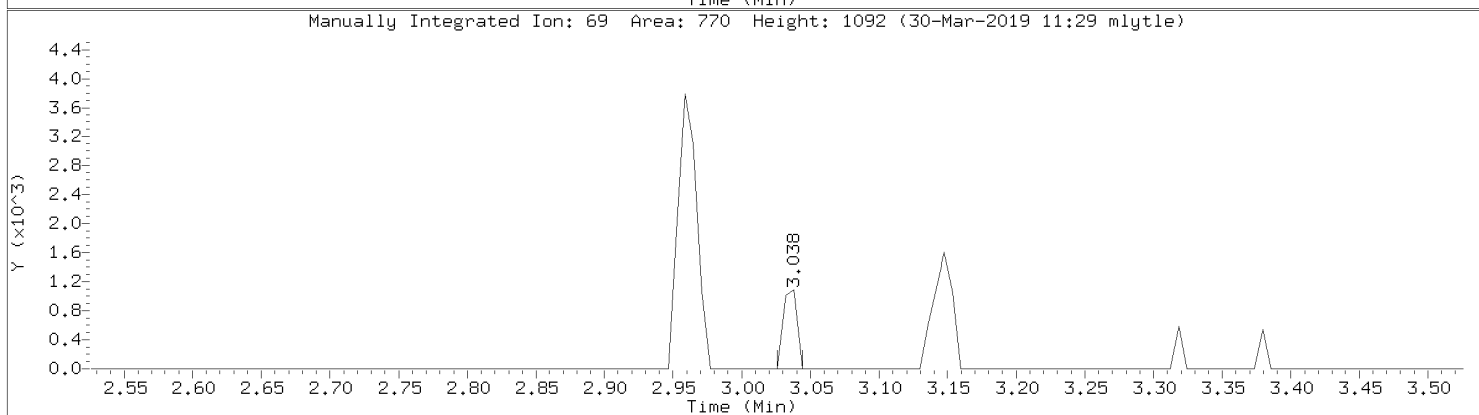
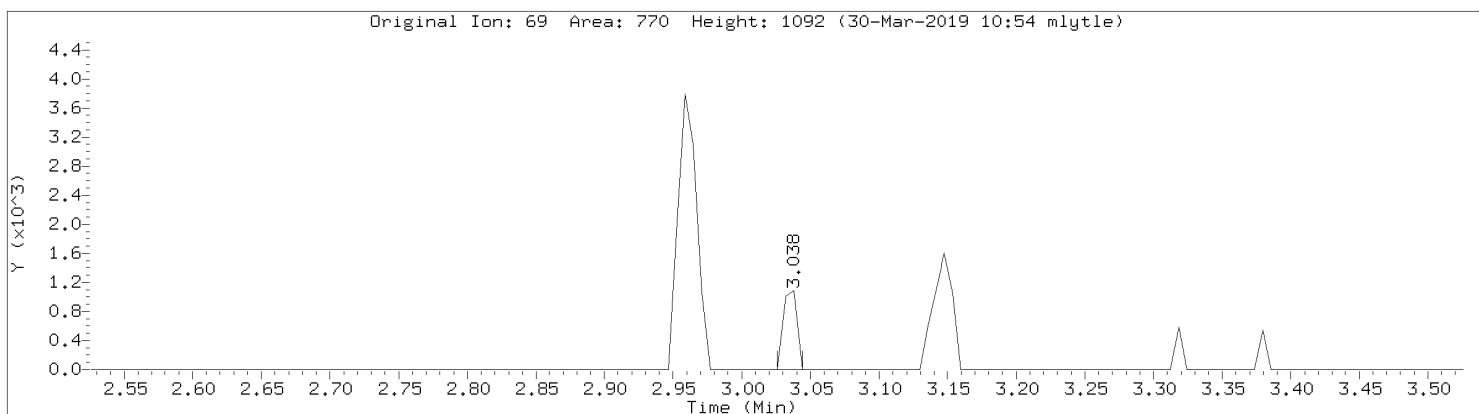


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Injection Date: 30-MAR-2019 10:33
Instrument: 10airI.i
Lab Sample ID: CAL1

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

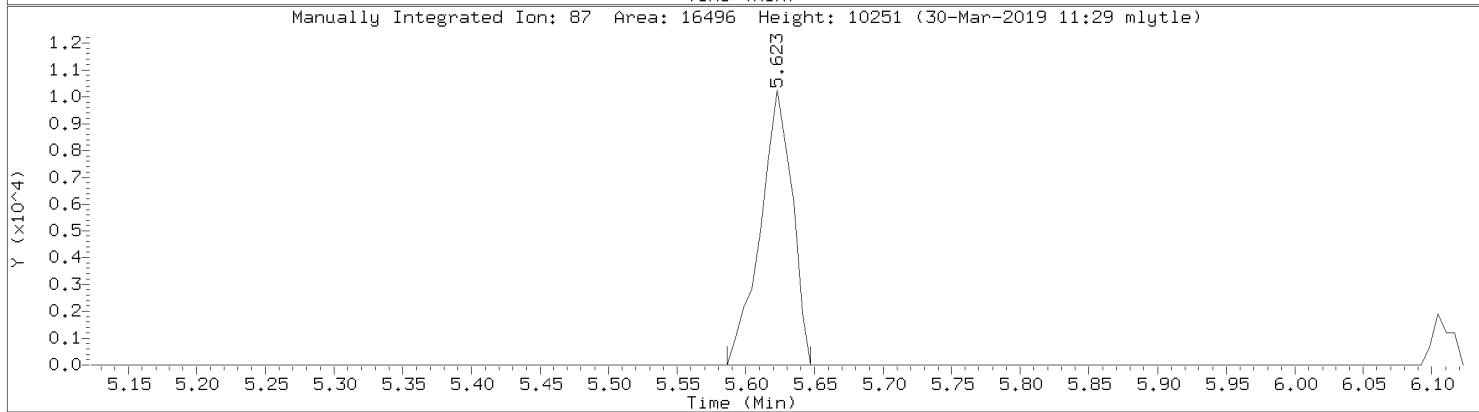
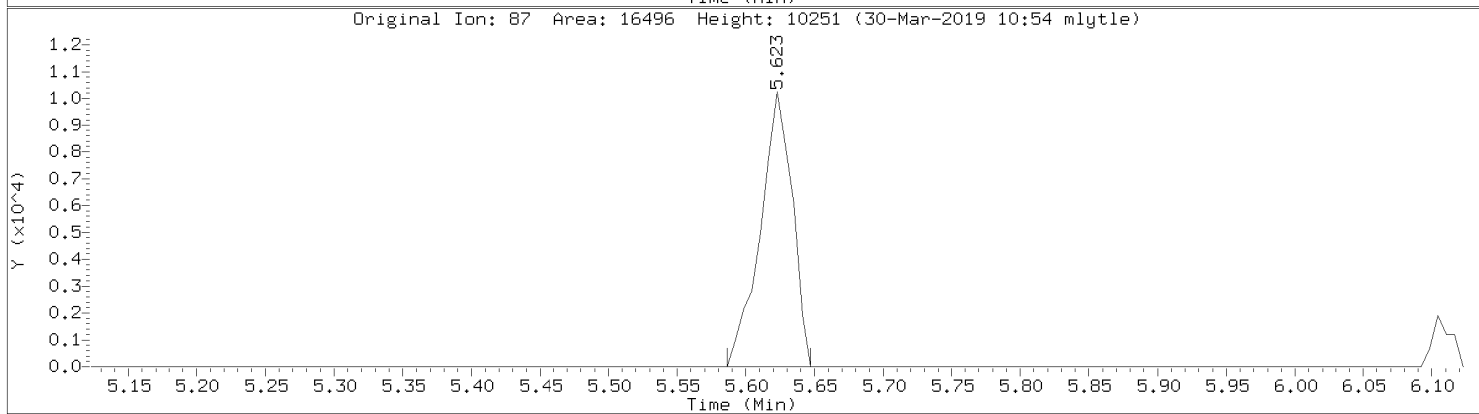
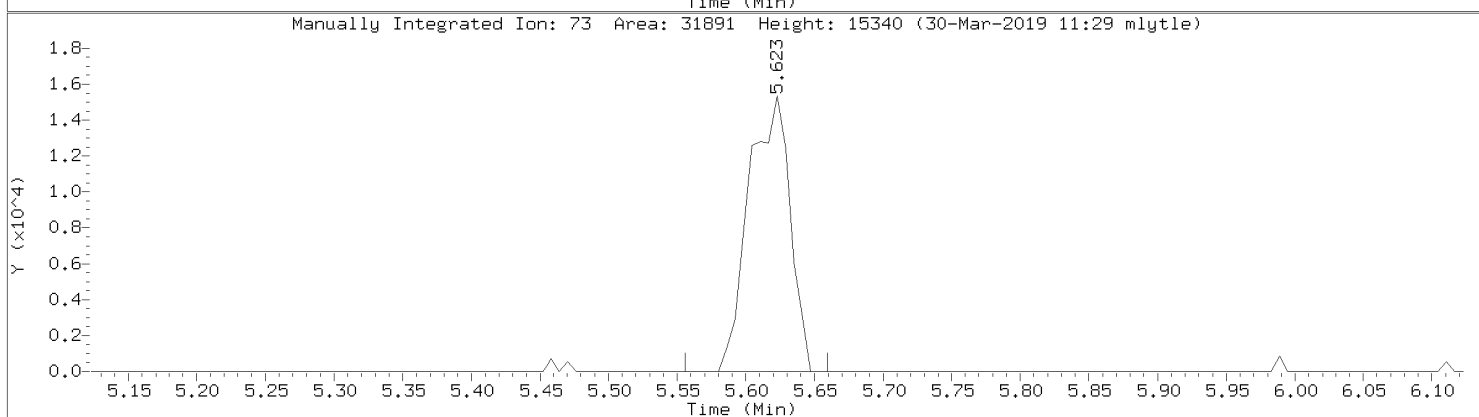
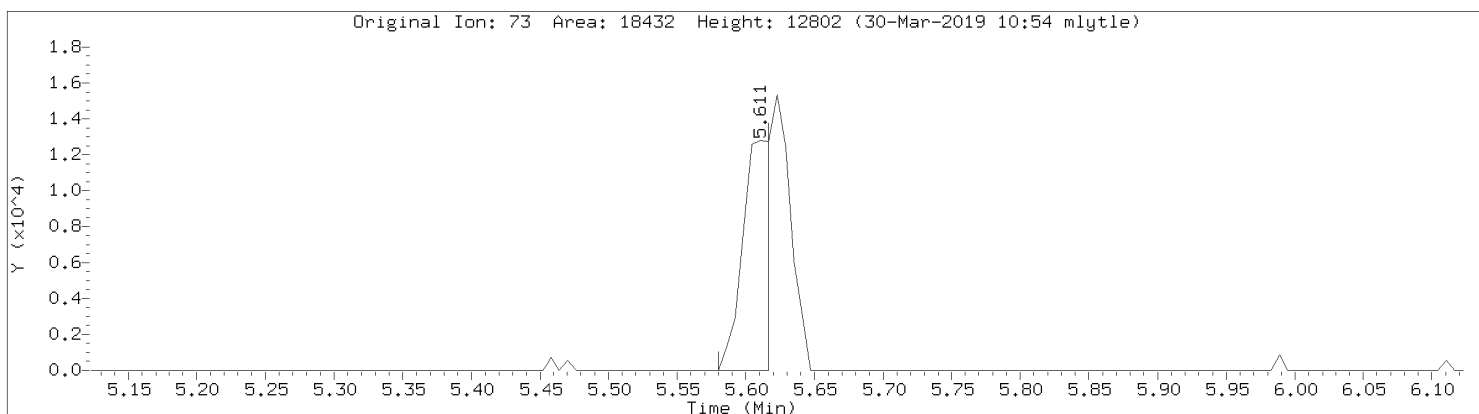


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Instrument: 10airI.i
Lab Sample ID: CAL1

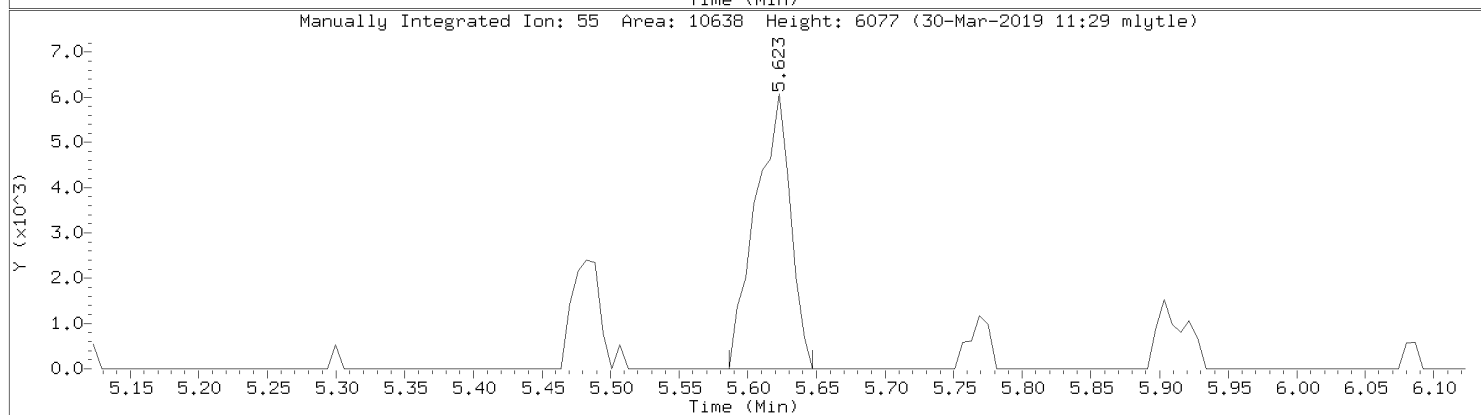
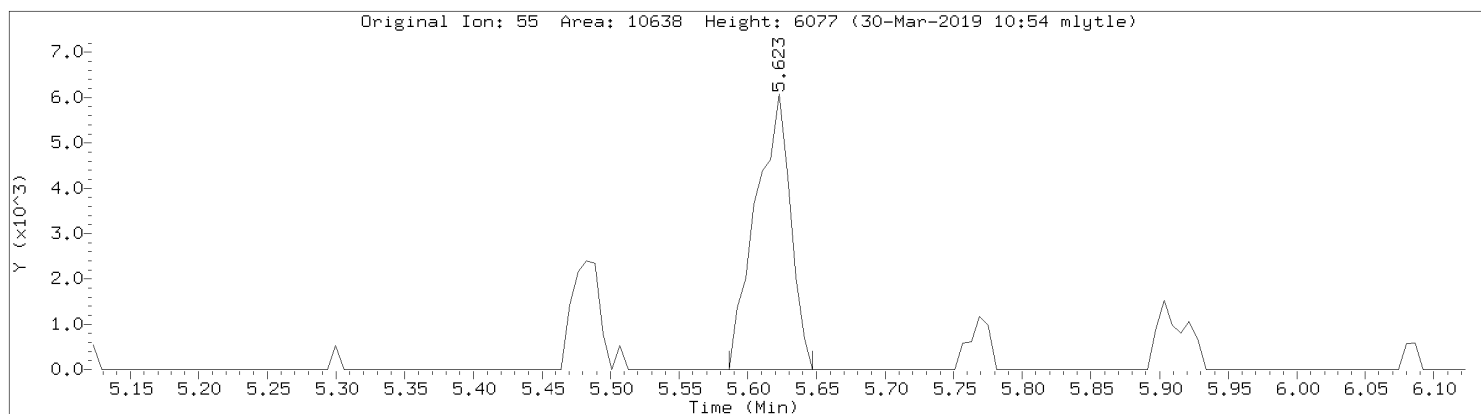


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Injection Date: 30-MAR-2019 10:33
Instrument: 10airI.i
Lab Sample ID: CAL1

Compound: Tert Amyl Methyl Ether
CAS Number: 994-05-8

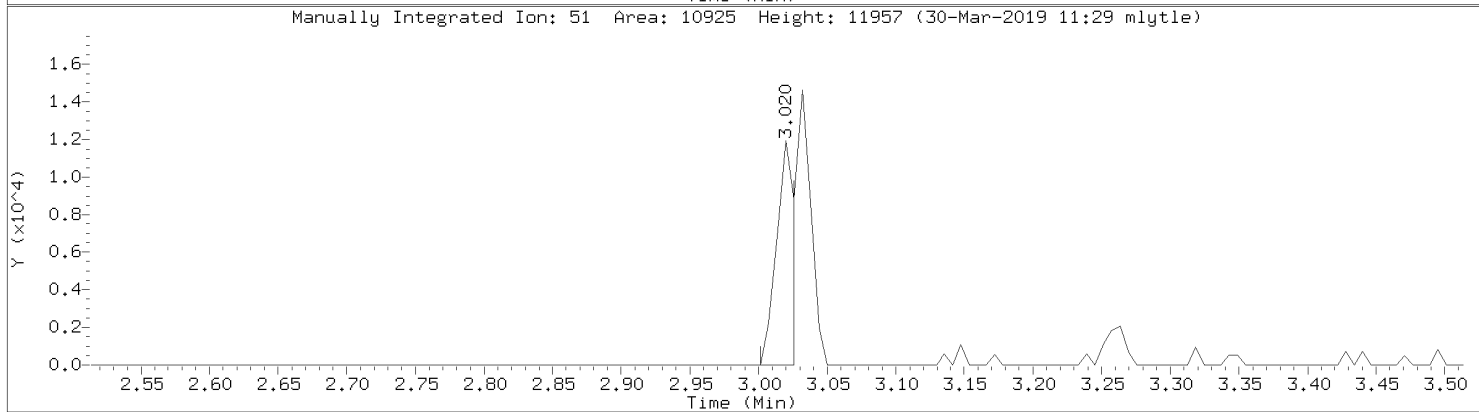
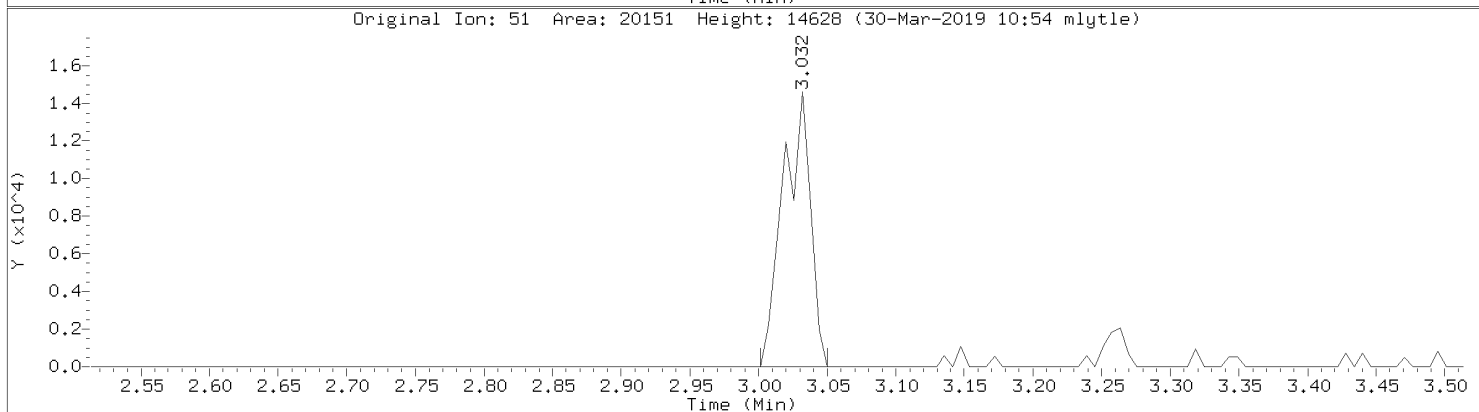
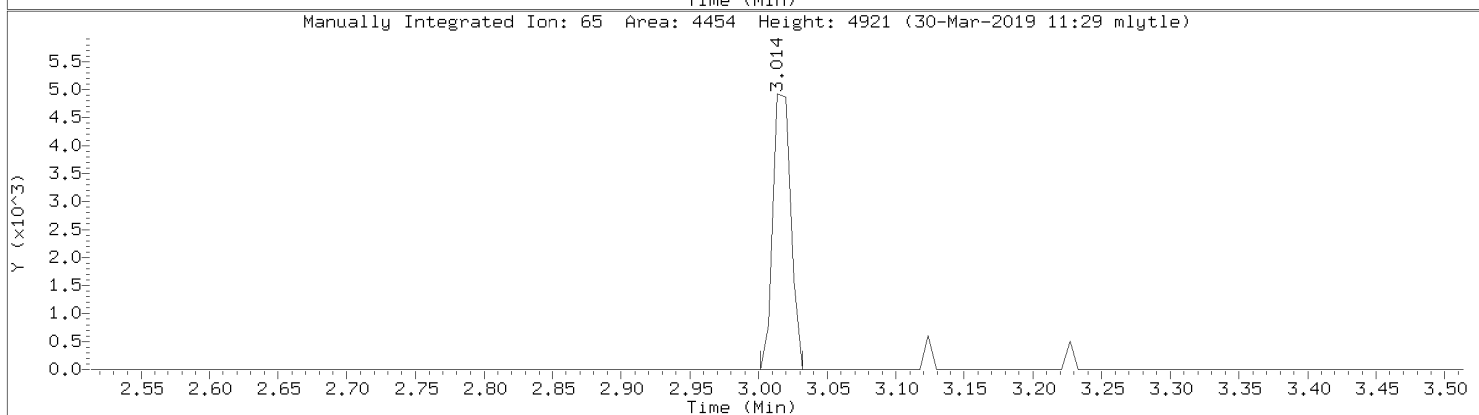
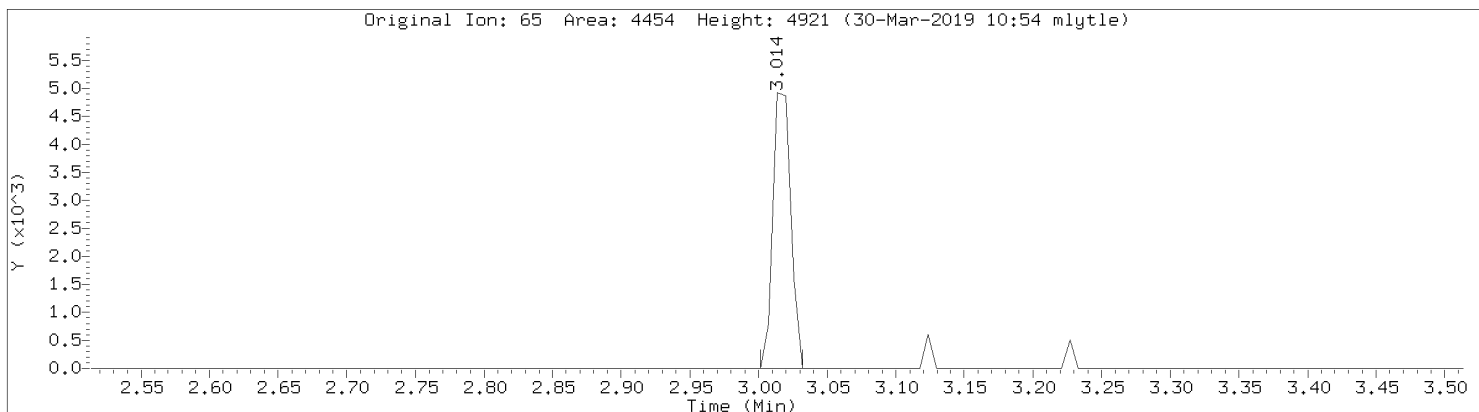


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Lab Sample ID: CAL1

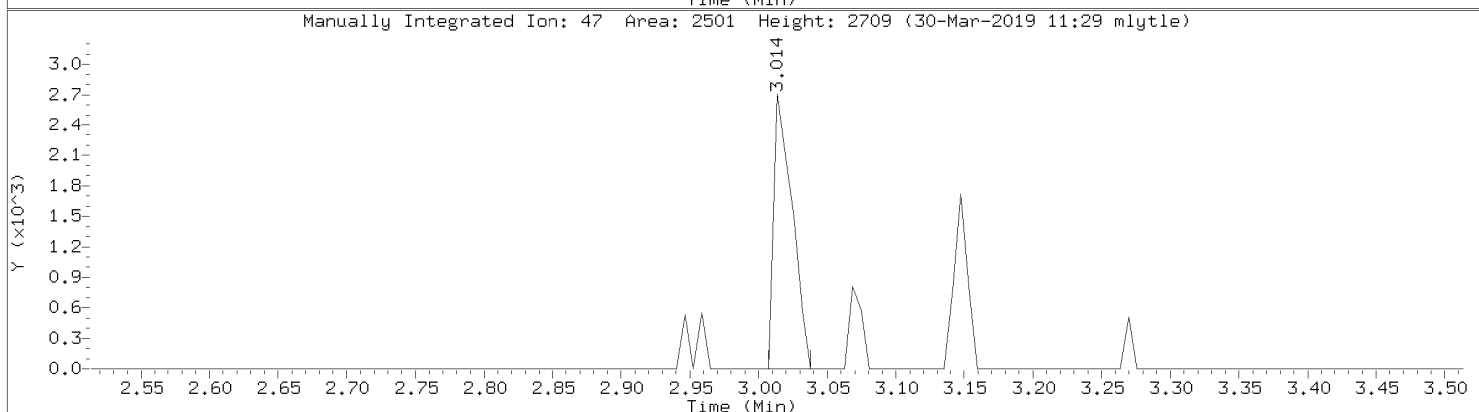
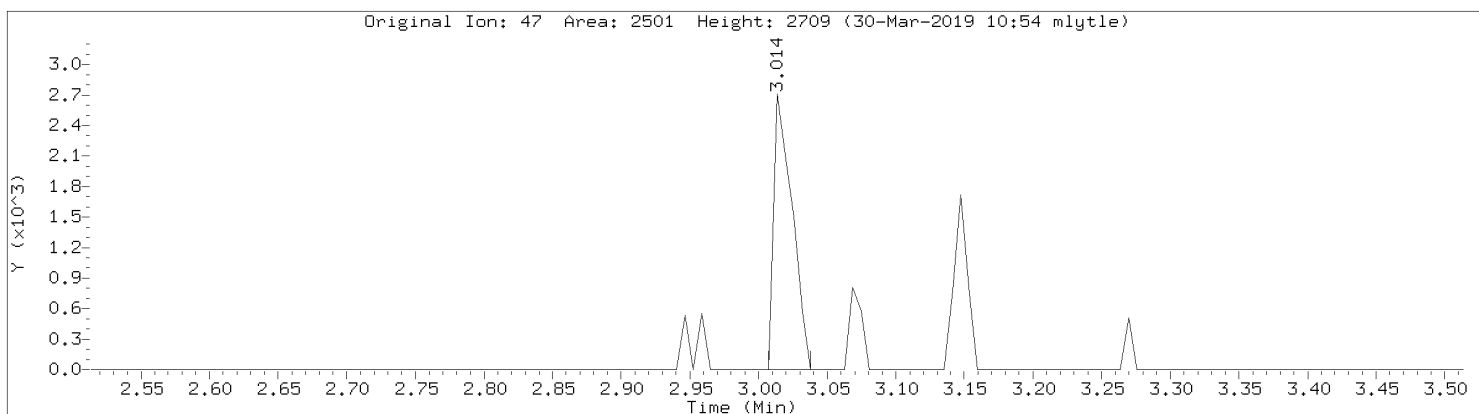


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08909.D
Injection Date: 30-MAR-2019 10:33
Instrument: 10airI.i
Lab Sample ID: CAL1

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08909.D
Injection Date: 30-MAR-2019 10:33
Instrument: 10airI.i
Lab Sample ID: CAL1



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\033019.b\08910.D
 Lab Smp Id: ICV
 Inj Date : 30-MAR-2019 11:00
 Operator : MJL Inst ID: 10airI.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Meth Date : 30-Mar-2019 11:29 10airI.i Quant Type: ISTD
 Cal Date : 30-MAR-2019 10:33 Cal File: 08909.D
 Als bottle: 10 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 1,1-Difluoroethane	65		3.019	3.013	(0.536)	272477	10.0613	10.1 (QM)
2 Chlorodifluoromethane	67		3.031	3.025	(0.539)	133992	11.2304	11.2 (QM)
3 Propylene	41		3.043	3.044	(0.541)	462202	9.56923	9.57
4 Dichlorodifluoromethane	85		3.068	3.068	(0.545)	1136271	9.39973	9.40
5 Dichlorotetrafluoroethane	85		3.147	3.147	(0.559)	863208	9.77439	9.77
6 Chloromethane	50		3.147	3.147	(0.559)	520064	9.97096	9.97
7 Vinyl chloride	62		3.220	3.220	(0.572)	349229	10.3421	10.3
8 1,3-Butadiene	54		3.257	3.257	(0.579)	292550	10.1632	10.2 (Q)
9 Bromomethane	94		3.391	3.391	(0.603)	276269	9.71191	9.71
10 Chloroethane	64		3.434	3.434	(0.610)	150213	9.75550	9.76
11 Ethanol	45		3.440	3.440	(0.611)	193162	9.93158	9.93
12 Vinyl Bromide	106		3.549	3.543	(0.631)	275865	10.3423	10.3
13 Isopentane	43		3.556	3.556	(0.632)	505956	10.6746	10.7
14 Freon 123	83		3.562	3.562	(0.633)	680877	10.3927	10.4
15 Acrolein	56		3.616	3.617	(0.643)	148708	10.0669	10.1
16 Trichlorofluoromethane	101		3.635	3.635	(0.646)	1078175	10.4569	10.5
17 Acetone	43		3.647	3.653	(0.648)	1069810	9.74668	9.75
18 Isopropyl Alcohol	45		3.659	3.659	(0.650)	982860	12.4539	12.5 (Q)
19 Tert Butyl Alcohol (TBA)	59		3.854	3.860	(0.685)	1064547	9.77787	9.78
20 Acrylonitrile	53		3.860	3.860	(0.686)	424956	10.1749	10.2
21 1,1-Dichloroethene	61		3.866	3.867	(0.687)	770155	9.78336	9.78
22 Methyl Acetate	43		3.897	3.903	(0.692)	1097989	9.40109	9.40
23 Freon 113	101		3.903	3.903	(0.693)	825574	9.79914	9.80

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)
24 Methylene chloride	49		3.958	3.958	(0.703)	721955	10.8266	10.8	
25 Allyl Chloride	76		3.970	3.964	(0.705)	190922	9.45144	9.45 (Q)	
26 Carbon Disulfide	76		4.080	4.080	(0.725)	1193218	10.4457	10.4	
27 trans-1,2-dichloroethene	96		4.232	4.226	(0.752)	412039	9.81106	9.81 (Q)	
28 Methyl Tert Butyl Ether	73		4.251	4.251	(0.755)	1218190	9.87076	9.87	
29 Vinyl Acetate	43		4.348	4.348	(0.773)	1601126	9.71474	9.71	
30 1,1-Dichloroethane	63		4.360	4.366	(0.775)	830754	9.97913	9.98	
31 Methyl Ethyl Ketone	72		4.507	4.513	(0.801)	212394	8.36782	8.37 (Q)	
32 n-Hexane	57		4.549	4.549	(0.808)	717756	8.94582	8.95 (Q)	
33 Di-isopropyl Ether	45		4.561	4.568	(0.810)	1952430	9.33888	9.34	
34 Ethyl Acetate	43		4.689	4.690	(0.833)	1384439	9.60973	9.61	
35 cis-1,2-Dichloroethene	96		4.689	4.690	(0.833)	416195	9.19225	9.19 (Q)	
36 Ethyl Tert-Butyl Ether	59		4.799	4.799	(0.853)	1575270	9.69447	9.69	
37 Chloroform	83		4.811	4.805	(0.855)	950763	10.5960	10.6 (Q)	
38 Tetrahydrofuran	42		4.958	4.964	(0.881)	680553	10.7171	10.7	
39 1,1,1-Trichloroethane	97		5.214	5.214	(0.926)	1011749	9.88321	9.88	
40 1,2-Dichloroethane	62		5.232	5.232	(0.930)	819809	9.92267	9.92	
41 Benzene	78		5.464	5.458	(0.971)	1258535	9.72147	9.72	
42 Carbon tetrachloride	117		5.476	5.476	(0.973)	933038	9.62020	9.62	
43 Cyclohexane	56		5.482	5.482	(0.974)	777782	9.70823	9.71	
44 Tert Amyl Methyl Ether	73		5.604	5.622	(0.996)	1271413	10.4131	10.4 (Q)	
* 45 1,4-Difluorobenzene	114		5.628	5.628	(1.000)	1008782	10.0000		
46 2,2,4-Trimethylpentane	57		5.775	5.769	(1.026)	2312087	9.52751	9.53	
47 Heptane	43		5.909	5.909	(1.050)	1055447	9.28745	9.29	
48 1,2-Dichloropropane	63		5.988	5.988	(1.064)	514672	9.51823	9.52	
49 Trichloroethene	130		6.006	6.006	(1.067)	511696	9.54434	9.54	
50 Methyl methacrylate	69		6.086	6.086	(1.081)	459927	9.34323	9.34	
51 1,4-Dioxane	88		6.092	6.098	(1.082)	282938	10.2718	10.3	
52 Bromodichloromethane	83		6.116	6.110	(1.087)	1024855	10.2286	10.2	
53 Methylcyclohexane	98		6.457	6.458	(1.147)	328044	9.80268	9.80 (Q)	
54 Methyl Isobutyl Ketone	43		6.573	6.579	(1.168)	1442166	10.0540	10.1	
55 cis-1,3-Dichloropropene	75		6.640	6.640	(1.180)	746909	9.25699	9.26	
56 trans-1,3-Dichloropropene	75		7.055	7.055	(1.253)	701852	9.92574	9.93	
57 Toluene	91		7.201	7.195	(1.279)	1392012	9.33071	9.33	
58 1,1,2-Trichloroethane	97		7.207	7.201	(1.281)	496803	9.53725	9.54	
59 Methyl Butyl Ketone	43		7.433	7.439	(0.856)	1347141	9.81611	9.82	
60 n-Octane	43		7.634	7.634	(0.879)	1407546	9.61948	9.62	
61 Dibromochloromethane	129		7.738	7.744	(0.891)	863409	11.8259	11.8	
62 1,2-Dibromoethane	107		7.963	7.963	(0.917)	787002	9.40487	9.40	
63 Tetrachloroethene	166		8.030	8.036	(0.925)	600360	9.54128	9.54	
* 64 Chlorobenzene - d5	117		8.683	8.683	(1.000)	876496	10.0000		
65 Chlorobenzene	112		8.725	8.725	(1.005)	1041302	9.49601	9.50	
66 Ethyl Benzene	91		8.969	8.963	(1.033)	1835942	9.71559	9.72	
67 m&p-Xylene	91		9.109	9.103	(1.049)	1497939	10.4126	10.4	
68 n-Nonane	43		9.481	9.475	(1.092)	1438786	9.85624	9.86	
69 Bromoform	173		9.506	9.506	(1.095)	629990	11.0397	11.0 (Q)	
70 Styrene	104		9.524	9.524	(1.097)	994410	9.88265	9.88	
71 o-Xylene	91		9.591	9.591	(1.105)	1421450	9.63875	9.64	
72 1,1,2,2-Tetrachloroethane	83		9.847	9.847	(1.134)	1013489	9.99827	10.0	
73 Isopropylbenzene	105		10.146	10.146	(1.169)	1891966	9.49142	9.49	
74 N-Propylbenzene	91		10.688	10.688	(1.231)	2340734	9.57037	9.57	
75 4-Ethyltoluene	105		10.853	10.853	(1.250)	1766079	9.66661	9.67	
76 1,3,5-Trimethylbenzene	105		10.938	10.938	(1.260)	1506582	9.55314	9.55	
77 n-Decane	57		11.274	11.274	(2.003)	1177111	9.73092	9.73	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ppbv)	FINAL (ppbv)
78 Tert-Butyl Benzene	119	11.395	11.396	(1.312)	1521165	9.42910	9.43
79 1,2,4-Trimethylbenzene	105	11.408	11.408	(1.314)	1442741	9.22760	9.23
80 Sec- Butylbenzene	105	11.676	11.676	(1.345)	2104733	9.49309	9.49
81 1,3-Dichlorobenzene	146	11.676	11.676	(1.345)	787607	9.33636	9.34
82 Benzyl Chloride	91	11.743	11.743	(1.352)	1110674	11.5932	11.6
83 1,4-Dichlorobenzene	146	11.761	11.767	(1.355)	775581	9.61268	9.61
84 p-Isopropyltoluene	119	11.841	11.847	(1.364)	1674363	9.56993	9.57
85 1,2,3-Trimethylbenzene	105	11.889	11.883	(1.369)	1408506	9.40548	9.41
86 1,2-Dichlorobenzene	146	12.121	12.121	(1.396)	736759	8.94876	8.95
87 N-Butylbenzene	91	12.273	12.273	(1.414)	1668051	9.64172	9.64
88 1,2-Dibromo-3-Chloropropane	157	12.700	12.700	(1.463)	332571	10.9047	10.9(Q)
89 1,2,4-Trichlorobenzene	180	13.736	13.737	(1.582)	450461	9.90494	9.90(Q)
90 Naphthalene	128	13.846	13.846	(1.595)	1083245	9.45883	9.46
91 Hexachlorobutadiene	225	14.047	14.048	(1.618)	479502	8.77714	8.78

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08910.D
 Report Date: 30-Mar-2019 11:29

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 10airI.i
 Lab File ID: 08910.D
 Lab Smp Id: ICV
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: MJL
 Method File: \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Misc Info:

Calibration Date: 30-MAR-2019
 Calibration Time: 08:43
 Level: LOW
 Sample Type: AIR

Test Mode:
 Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	1148342	689005	1607679	1008782	-12.15
64 Chlorobenzene - d	994820	596892	1392748	876496	-11.89

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.63	5.30	5.96	5.63	-0.00
64 Chlorobenzene - d	8.68	8.35	9.01	8.68	-0.00

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

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08910.D

Date : 30-MAR-2019 11:00

Client ID:

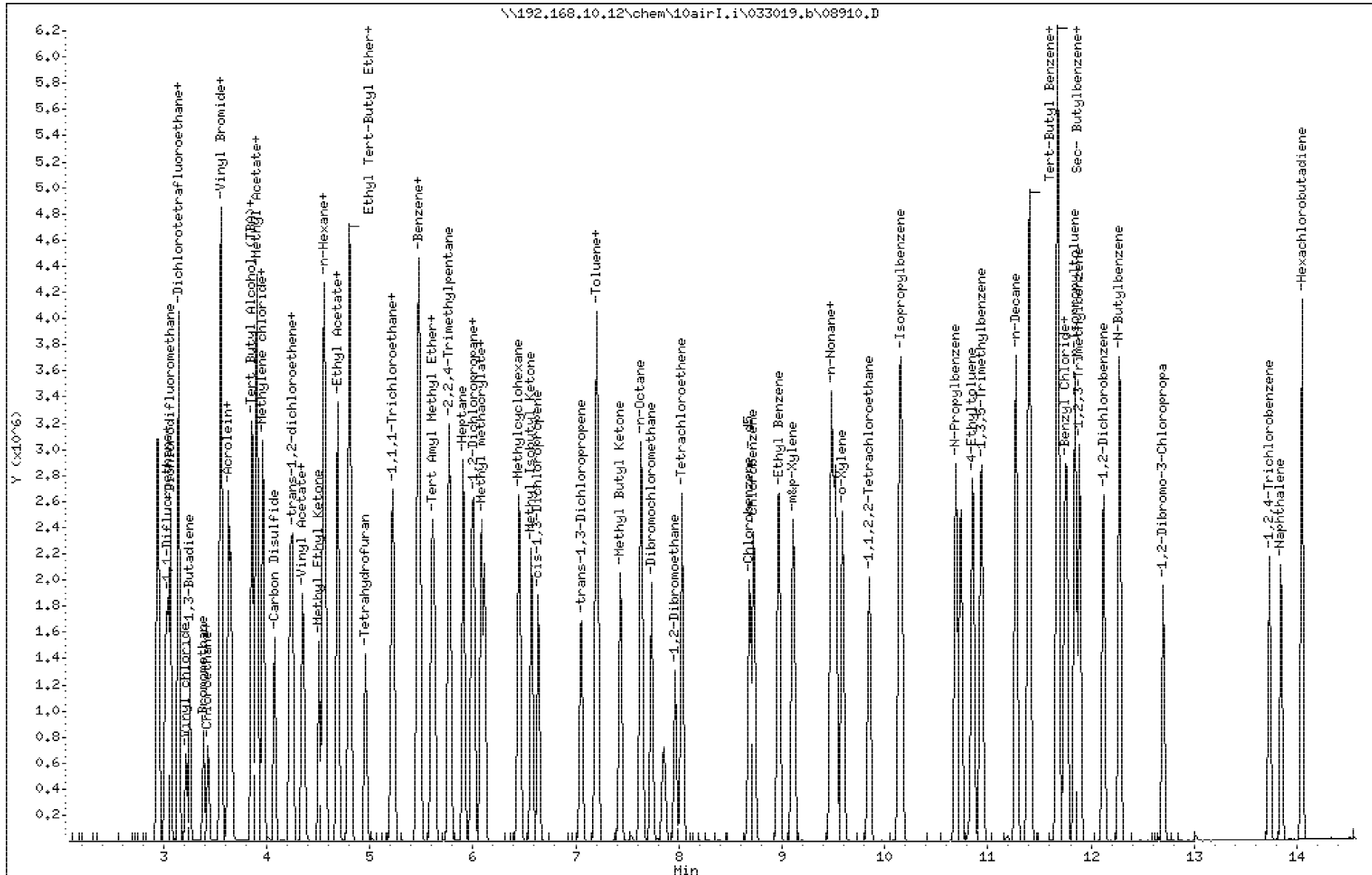
Sample Info:

Column phase: DB-5 SN:USD449717H

Instrument: 10air1.i

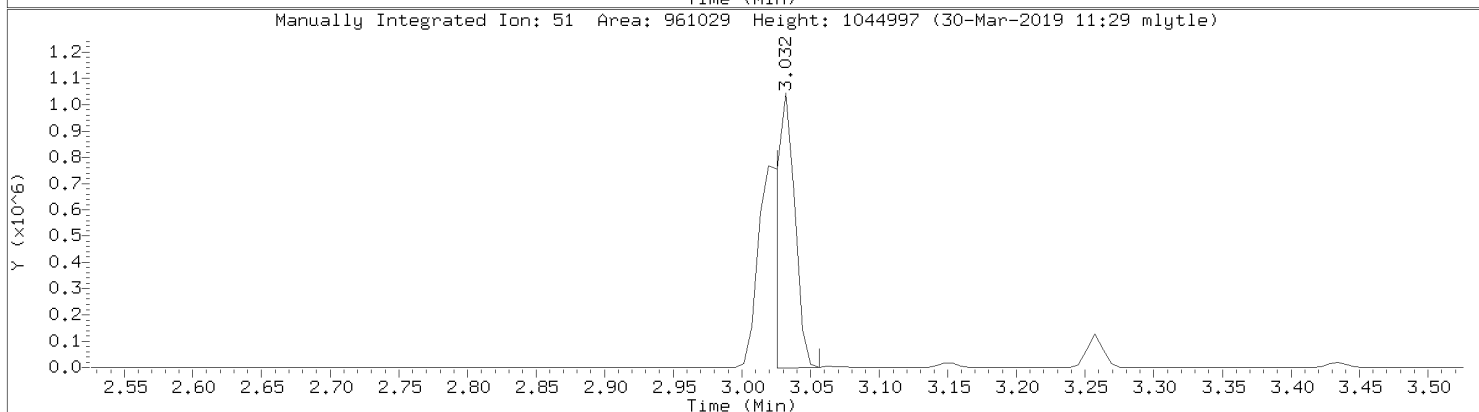
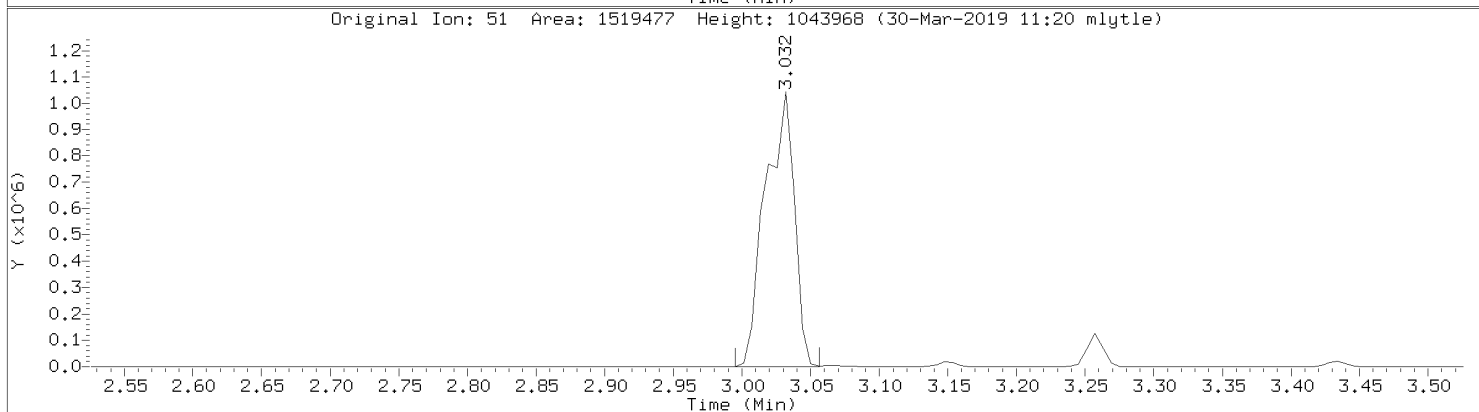
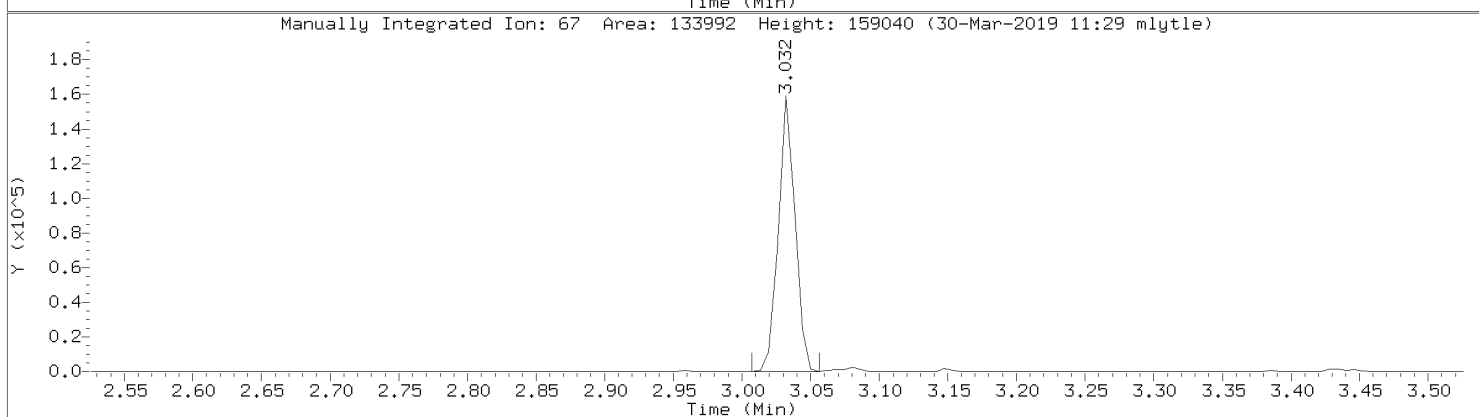
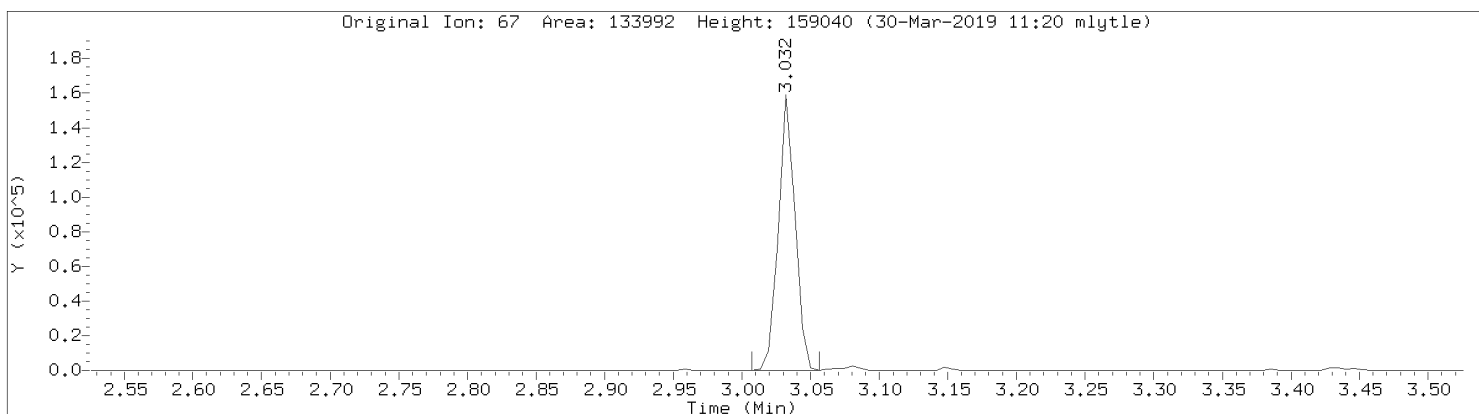
Operator: MJL

Column diameter: 0.32

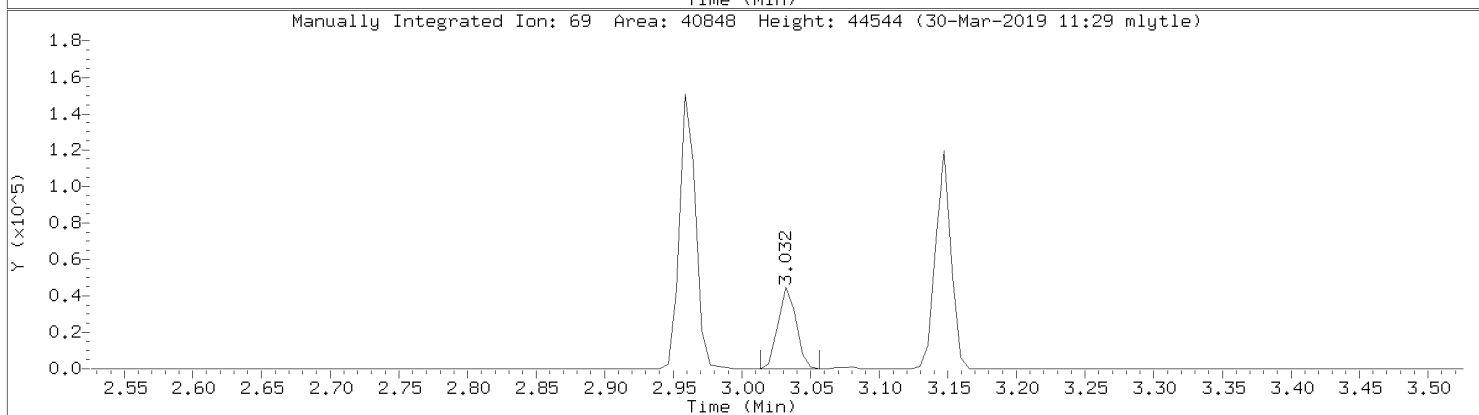
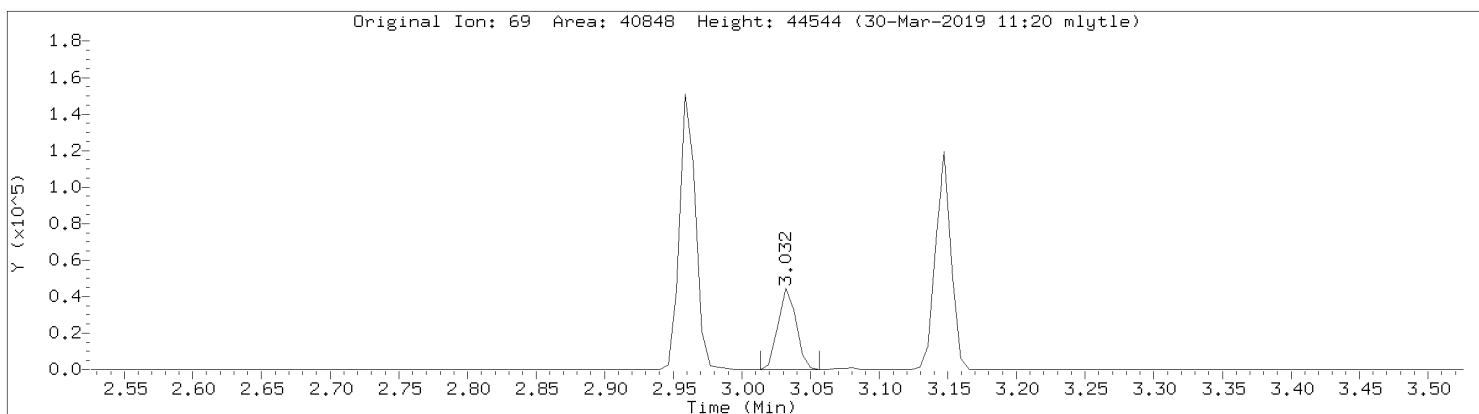


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08910.D
Injection Date: 30-MAR-2019 11:00
Instrument: 10airI.i
Lab Sample ID: ICV

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

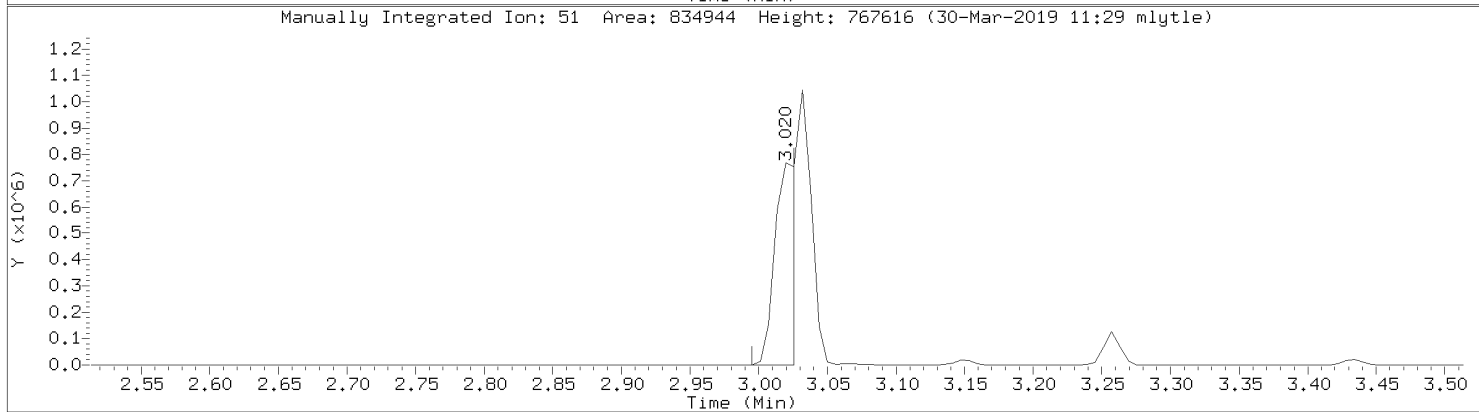
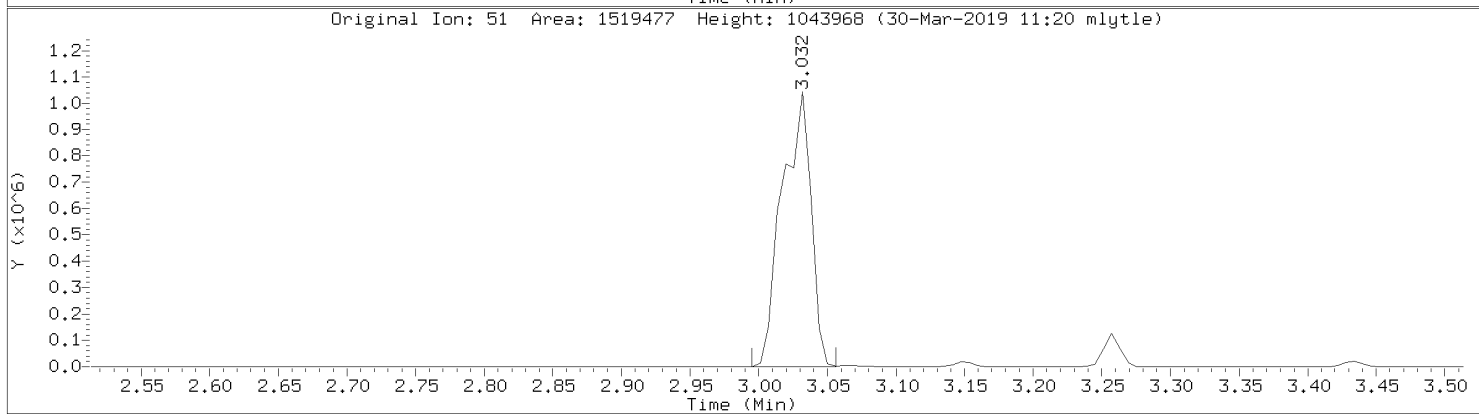
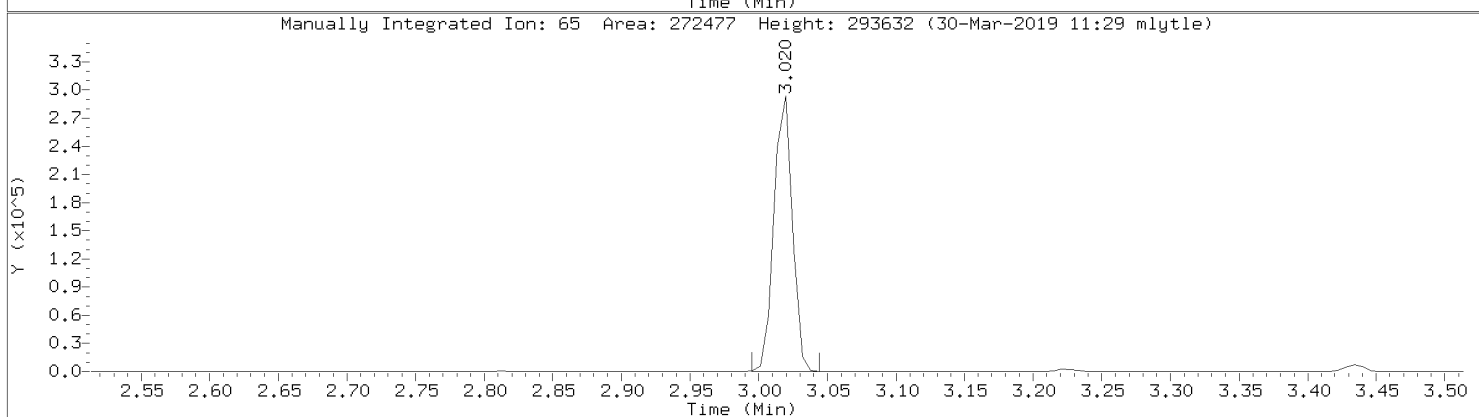
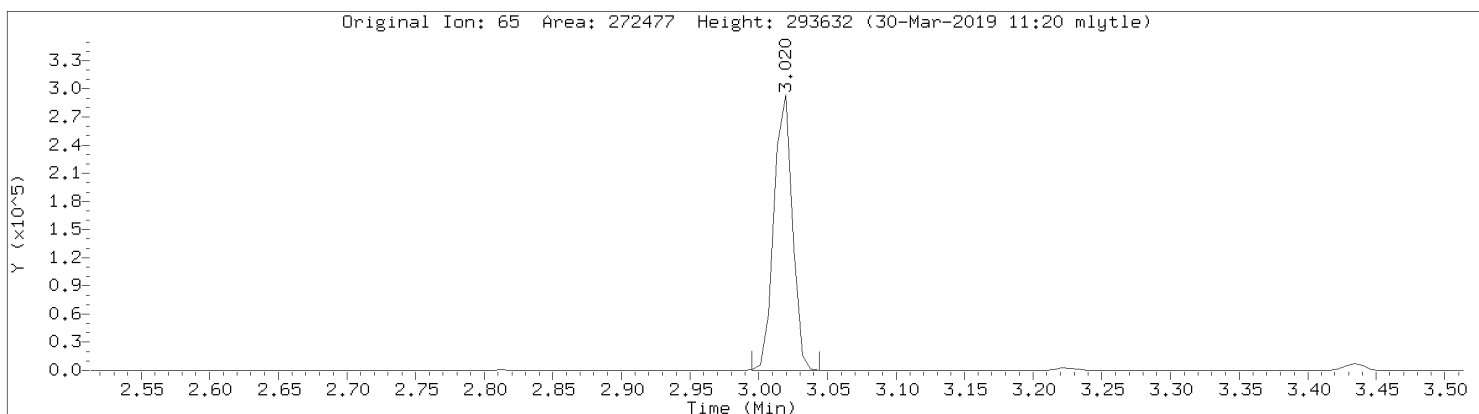


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08910.D
Injection Date: 30-MAR-2019 11:00
Instrument: 10airI.i
Lab Sample ID: ICV

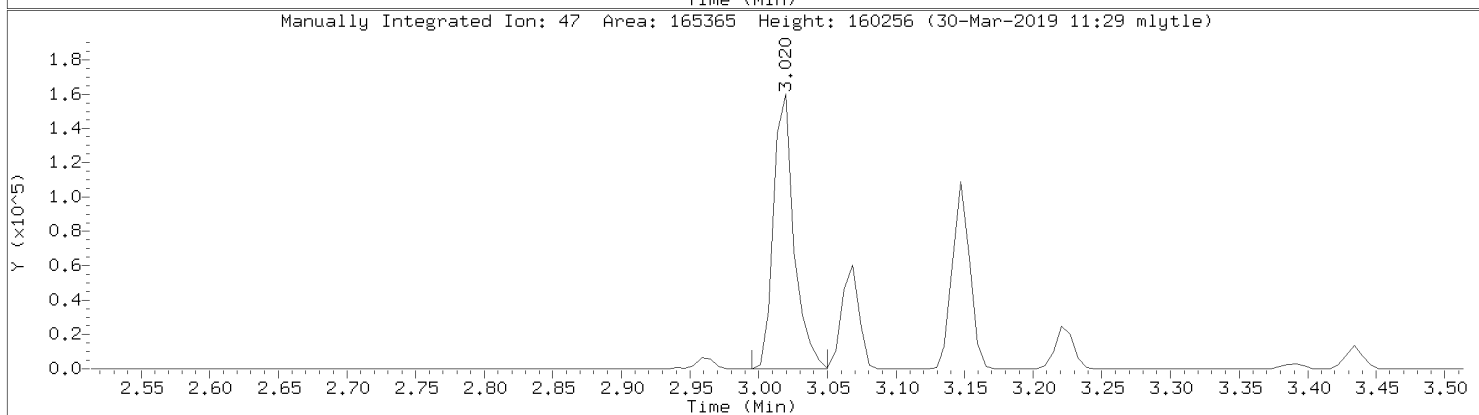
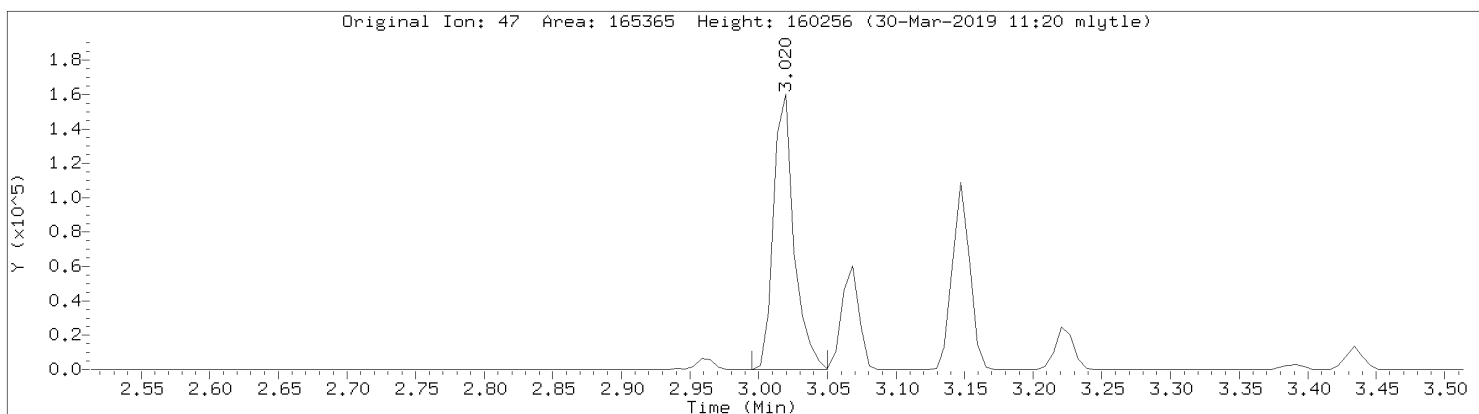


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08910.D
Injection Date: 30-MAR-2019 11:00
Instrument: 10airI.i
Lab Sample ID: ICV

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08910.D
Injection Date: 30-MAR-2019 11:00
Instrument: 10airI.i
Lab Sample ID: ICV



5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
Lab Code: PASI Case No.: SAS No.: SDG No.: 10468767
Lab File ID: 08401BFB.D BFB Injection Date: 03/25/2019
Instrument ID: 10AIRH BFB Injection Time: 06:17
GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	25.17
75	30.00 - 66.00% of mass 95	58.18
96	5.00 - 9.00% of mass 95	6.75
173	Less than 2.00% of mass 174	0.35 (0.58)
174	50.00 - 120.00% of mass 95	60.37
175	4.00 - 9.00% of mass 174	4.35 (7.21)
176	93.00 - 101.00% of mass 174	59.63 (98.79)
177	5.00 - 9.00% of mass 176	3.47 (5.83)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL7	CAL7	08406.D	03/25/2019	08:22
2	CAL6	CAL6	08407.D	03/25/2019	08:48
3	CAL5	CAL5	08408.D	03/25/2019	09:13
4	CAL4	CAL4	08409.D	03/25/2019	09:39
5	CAL3	CAL3	08410.D	03/25/2019	10:04
6	CAL2	CAL2	08411.D	03/25/2019	10:29
7	CAL1	CAL1	08412.D	03/25/2019	10:53
8	ICV (LCS)	ICV	08413.D	03/25/2019	11:18

Date : 25-MAR-2019 06:17

Client ID: BFB

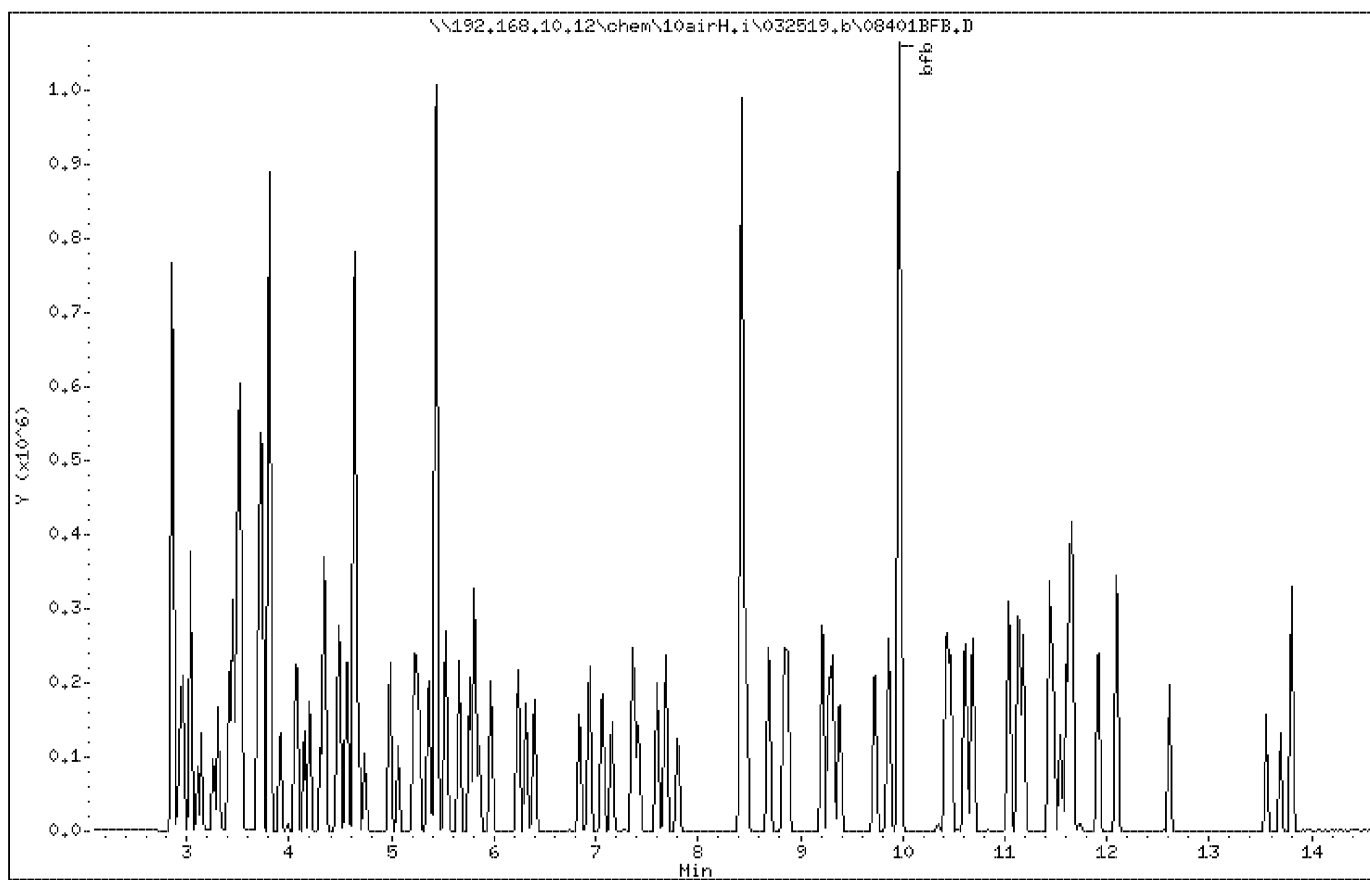
Instrument: 10airH,i

Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32



Date : 25-MAR-2019 06:17

Client ID: BFB

Instrument: 10airH,i

Sample Info:

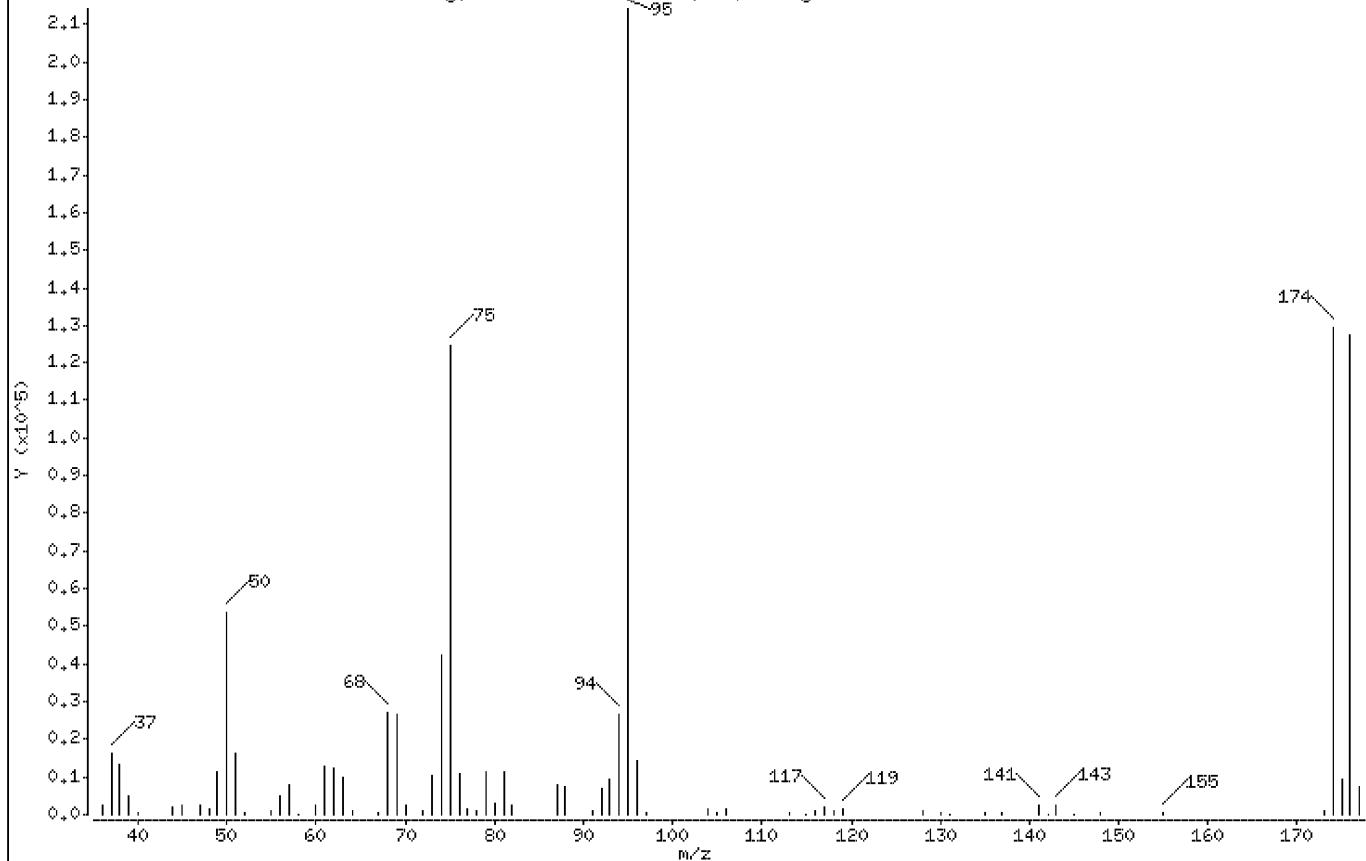
Operator: HJL

Column phase: J&W DB-5

Column diameter: 0,32

1 bfb

Avg. Scans 2450-2452 (9.97), Background Scan 2436



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100,00
50	8,00 - 40,00% of mass 95	25,17
75	30,00 - 66,00% of mass 95	58,18
96	5,00 - 9,00% of mass 95	6,75
173	Less than 2,00% of mass 174	0,35 (0,58)
174	50,00 - 120,00% of mass 95	60,37
175	4,00 - 9,00% of mass 174	4,35 (7,21)
176	93,00 - 101,00% of mass 174	59,63 (98,79)
177	5,00 - 9,00% of mass 176	3,47 (5,83)

Date : 25-MAR-2019 06:17

Client ID: BFB

Instrument: 10airH.i

Sample Info:

Operator: HJL

Column phase: J&W DB-5

Column diameter: 0.32

Data File: 08401BFB.D

Spectrum: Avg. Scans 2450-2452 (9.97), Background Scan 2436

Location of Maximum: 95.00

Number of points: 71

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36,00	2623	61,00	13011	82,00	2403	119,00	1420
37,00	16448	62,00	12539	87,00	8075	128,00	955
38,00	13046	63,00	10048	88,00	7571	130,00	703
39,00	5076	64,00	759	91,00	1140	131,00	136
40,00	512	67,00	629	92,00	6647	135,00	331
44,00	1995	68,00	26944	93,00	9553	137,00	485
45,00	2622	69,00	26616	94,00	26424	141,00	2235
47,00	2582	70,00	2266	95,00	214080	142,00	157
48,00	1681	72,00	1151	96,00	14443	143,00	2304
49,00	11500	73,00	10377	97,00	451	145,00	140
50,00	53880	74,00	42400	104,00	1332	148,00	331
51,00	16222	75,00	124560	105,00	311	155,00	609
52,00	577	76,00	10728	106,00	1260	173,00	756
55,00	748	77,00	1253	113,00	319	174,00	129232
56,00	4750	78,00	853	115,00	138	175,00	9315
57,00	7979	79,00	11170	116,00	1082	176,00	127664
58,00	180	80,00	2884	117,00	1726	177,00	7438
60,00	2375	81,00	11115	118,00	1096		

5A - FORM V VOA
 VOLATILE ORGANIC INSTRUMENT
 PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical Contract:
 Lab Code: PASI Case No.: SAS No.: SDG No.: 10468767
 Lab File ID: 09001BFB.D BFB Injection Date: 03/31/2019
 Instrument ID: 10AIRH BFB Injection Time: 07:17
 GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	23.76
75	30.00 - 66.00% of mass 95	55.87
96	5.00 - 9.00% of mass 95	6.22
173	Less than 2.00% of mass 174	0.36 (0.60)
174	50.00 - 120.00% of mass 95	60.64
175	4.00 - 9.00% of mass 174	4.40 (7.26)
176	93.00 - 101.00% of mass 174	58.14 (95.89)
177	5.00 - 9.00% of mass 176	4.15 (7.13)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CCV	CCV	09002.D	03/31/2019	07:42
2	CERT (BLK)	CERT	09006.D	03/31/2019	09:34
3	LA 496	10468767011	09025.D	03/31/2019	17:33
4	LA 498	10468767007	09026.D	03/31/2019	18:00
5	LA 497	10468767009	09027.D	03/31/2019	18:25
6	LA 499	10468767005	09028.D	03/31/2019	18:50
7	LA 501	10468767003	09029.D	03/31/2019	19:15

Date : 31-MAR-2019 07:17

Client ID: BFB

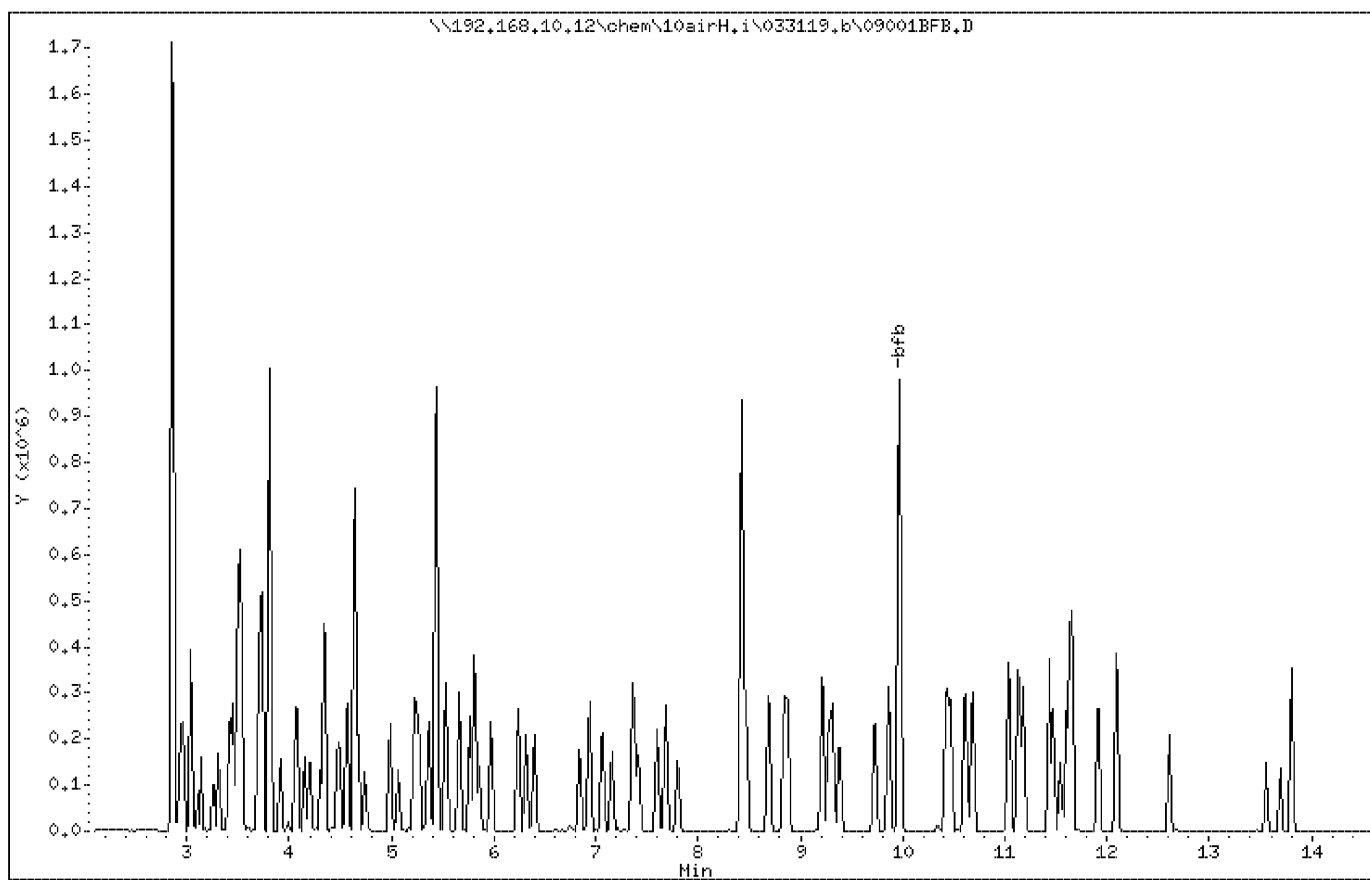
Instrument: 10airH,i

Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32



Date : 31-MAR-2019 07:17

Client ID: BFB

Instrument: 10airH.i

Sample Info:

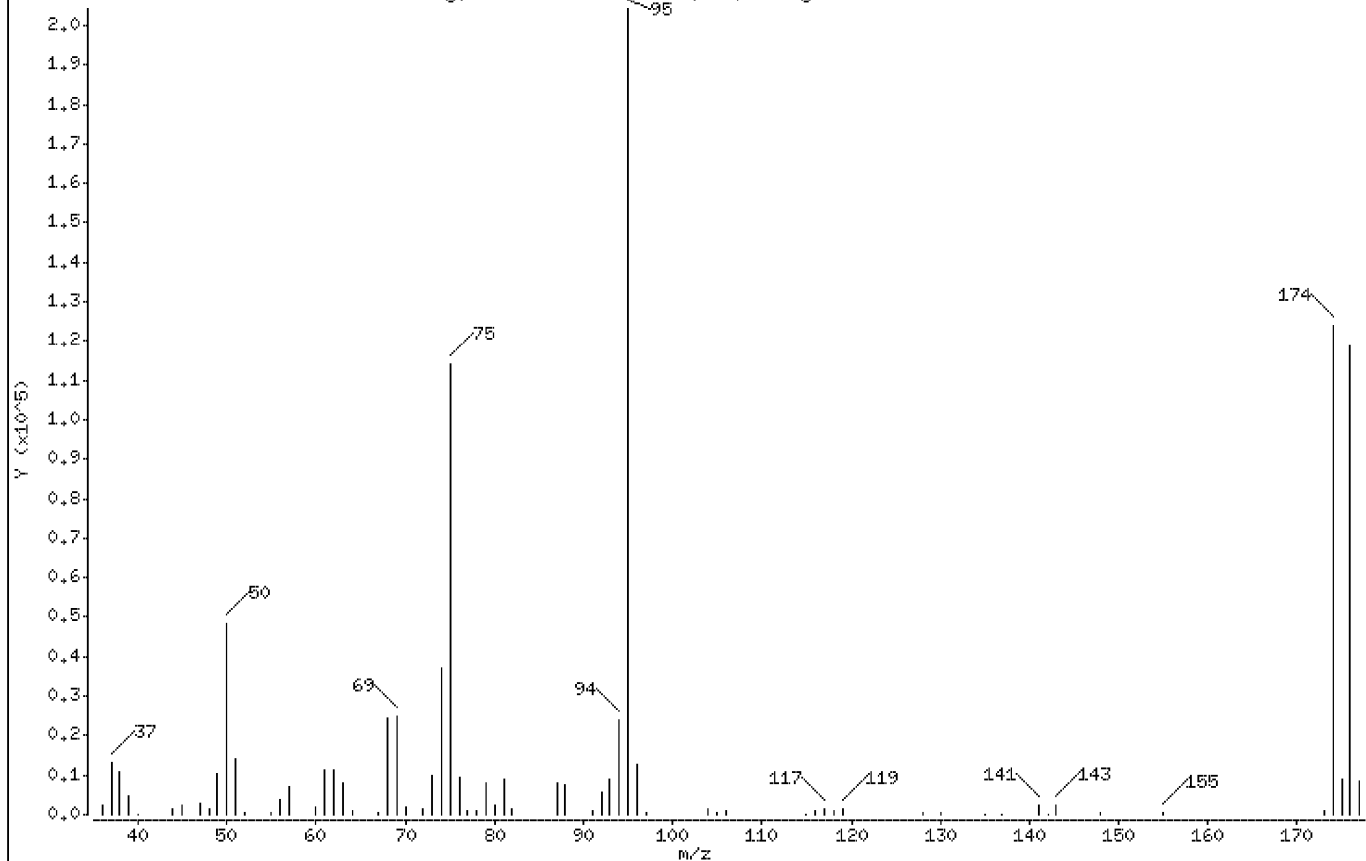
Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb

Avg. Scans 2450-2452 (9.97), Background Scan 2436



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	23.76
75	30.00 - 66.00% of mass 95	55.87
96	5.00 - 9.00% of mass 95	6.22
173	Less than 2.00% of mass 174	0.36 (0.60)
174	50.00 - 120.00% of mass 95	60.64
175	4.00 - 9.00% of mass 174	4.40 (7.26)
176	93.00 - 101.00% of mass 174	58.14 (95.89)
177	5.00 - 9.00% of mass 176	4.15 (7.13)

Date : 31-MAR-2019 07:17

Client ID: BFB

Instrument: 10airH.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32

Data File: 09001BFB.D

Spectrum: Avg. Scans 2450-2452 (9.97), Background Scan 2436

Location of Maximum: 95.00

Number of points: 67

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2295	61.00	11340	81.00	8767	118.00	879
37.00	12946	62.00	11143	82.00	1643	119.00	1297
38.00	10830	63.00	8209	87.00	8115	128.00	694
39.00	4653	64.00	711	88.00	7621	130.00	663
40.00	232	67.00	675	91.00	809	135.00	171
44.00	1555	68.00	24536	92.00	5733	137.00	177
45.00	2270	69.00	24848	93.00	8835	141.00	2321
47.00	2993	70.00	1976	94.00	23808	142.00	171
48.00	1300	72.00	1227	95.00	204224	143.00	2257
49.00	10295	73.00	9949	96.00	12705	148.00	476
50.00	48520	74.00	37208	97.00	358	155.00	364
51.00	14035	75.00	114096	104.00	1330	173.00	745
52.00	578	76.00	9406	105.00	369	174.00	123840
55.00	605	77.00	1061	106.00	1122	175.00	8995
56.00	3719	78.00	838	115.00	151	176.00	118744
57.00	7091	79.00	8215	116.00	799	177.00	8472
60.00	1939	80.00	2225	117.00	1344		

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFB

Lab Name: Pace Analytical

Contract:

Lab Code: PASI

Case No.:

SAS No.:

SDG No.: 10468767

Lab File ID: 08902BFB.D

BFB Injection Date: 03/30/2019

Instrument ID: 10AIRI

BFB Injection Time: 07:21

GC Column: J&W DB-5 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	28.28
75	30.00 - 66.00% of mass 95	53.32
96	5.00 - 9.00% of mass 95	6.57
173	Less than 2.00% of mass 174	1.05 (1.58)
174	50.00 - 120.00% of mass 95	66.51
175	4.00 - 9.00% of mass 174	4.92 (7.39)
176	93.00 - 101.00% of mass 174	65.12 (97.91)
177	5.00 - 9.00% of mass 176	3.83 (5.88)

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	CAL7	CAL7	08903.D	03/30/2019	07:49
2	CAL6	CAL6	08904.D	03/30/2019	08:16
3	CAL5	CAL5	08905.D	03/30/2019	08:43
4	CAL4	CAL4	08906.D	03/30/2019	09:11
5	CAL3	CAL3	08907.D	03/30/2019	09:38
6	CAL2	CAL2	08908.D	03/30/2019	10:05
7	CAL1	CAL1	08909.D	03/30/2019	10:33
8	LCS for HBN 596663 [AIR/33312]	3226387	08910_33312.D	03/30/2019	11:00
9	ICV (LCS)	ICV	08910.D	03/30/2019	11:00
10	BLANK for HBN 596663 [AIR/3331]	3226386	08914_33312.D	03/30/2019	12:55
11	LA 502	10468767001	08915.D	03/30/2019	13:24
12	LA 501	10468767003	08916.D	03/30/2019	13:53
13	LA 499	10468767005	08917.D	03/30/2019	14:22
14	LA 498	10468767007	08918.D	03/30/2019	14:51
15	LA 497	10468767009	08919.D	03/30/2019	15:19
16	LA 496	10468767011	08920.D	03/30/2019	15:48
17	LA 500	10468767013	08921.D	03/30/2019	16:17
18	653 1/2 OA(3220963DUP)	3226734-DUP	08923.D	03/30/2019	17:15

Date : 30-MAR-2019 07:21

Client ID: BFB

Instrument: 10airI,i

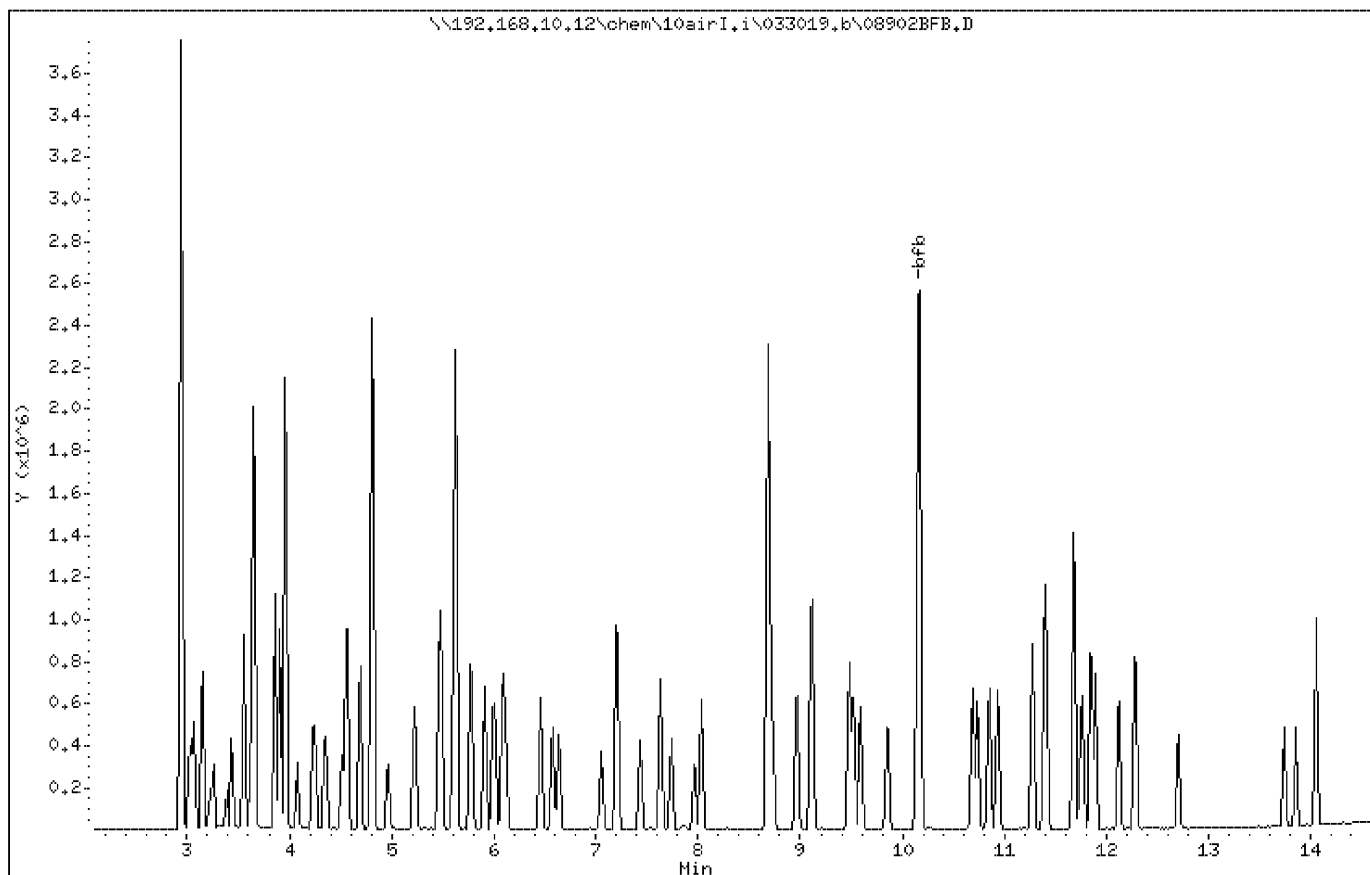
Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32

\\192.168.10.12\chem\10airI,i\033019,b\08902BFB,D



Date : 30-MAR-2019 07:21

Client ID: BFB

Instrument: 10airI.i

Sample Info:

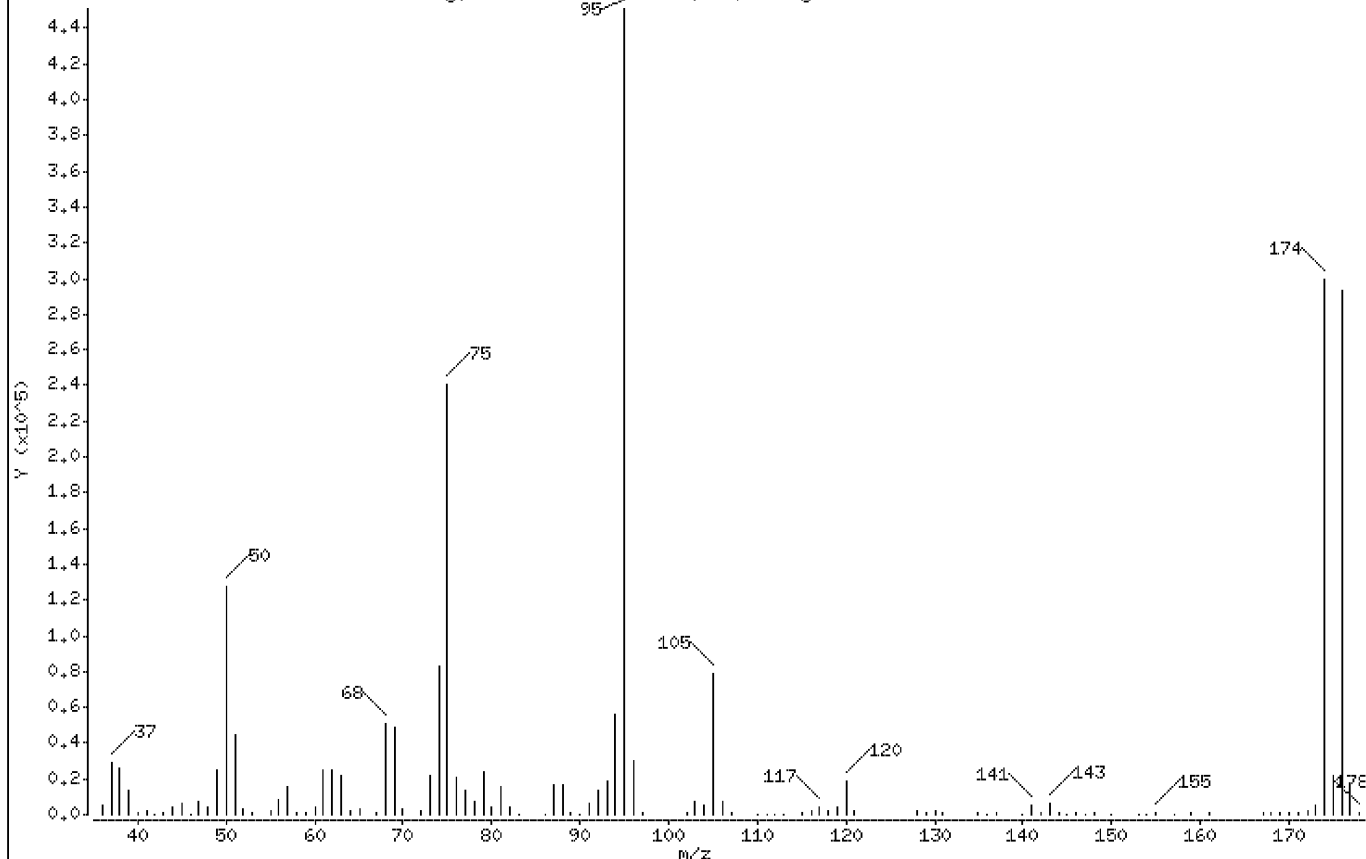
Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32

1 bfb

Avg. Scans 1325-1327 (10.16), Background Scan 1314



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	28.28
75	30.00 - 66.00% of mass 95	53.32
96	5.00 - 9.00% of mass 95	6.57
173	Less than 2.00% of mass 174	1.05 (1.58)
174	50.00 - 120.00% of mass 95	66.51
175	4.00 - 9.00% of mass 174	4.92 (7.39)
176	93.00 - 101.00% of mass 174	65.12 (97.91)
177	5.00 - 9.00% of mass 176	3.83 (5.88)

Date : 30-MAR-2019 07:21

Client ID: BFB

Instrument: 10airI.i

Sample Info:

Operator: MJL

Column phase: J&W DB-5

Column diameter: 0.32

Data File: 08902BFB.D

Spectrum: Avg. Scans 1325-1327 (10,16), Background Scan 1314

Location of Maximum: 95.00

Number of points: 109

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5292	65.00	2792	97.00	963	143.00	6339
37.00	29424	67.00	1539	102.00	1132	144.00	692
38.00	25848	68.00	50624	103.00	7693	145.00	193
39.00	13072	69.00	48824	104.00	4704	146.00	840
40.00	970	70.00	3354	105.00	78336	147.00	276
41.00	2488	72.00	2312	106.00	7770	148.00	840
42.00	172	73.00	21456	107.00	748	150.00	447
43.00	1032	74.00	82880	110.00	346	153.00	183
44.00	3634	75.00	240384	111.00	191	154.00	203
45.00	6012	76.00	20440	112.00	186	155.00	956
46.00	199	77.00	13556	113.00	504	157.00	252
47.00	7193	78.00	7016	115.00	1335	159.00	617
48.00	3809	79.00	24312	116.00	1941	161.00	534
49.00	24664	80.00	4426	117.00	3802	167.00	603
50.00	127504	81.00	15219	118.00	2374	168.00	797
51.00	44296	82.00	3631	119.00	3682	169.00	939
52.00	3571	83.00	250	120.00	18576	170.00	1455
53.00	1116	86.00	178	121.00	1882	171.00	600
55.00	1579	87.00	16952	128.00	1672	172.00	1990
56.00	7782	88.00	16768	129.00	1021	173.00	4750
57.00	15147	89.00	1359	130.00	1956	174.00	299840
58.00	557	90.00	280	131.00	773	175.00	22160
59.00	779	91.00	6545	135.00	900	176.00	293568
60.00	4586	92.00	13560	136.00	204	177.00	17256
61.00	24856	93.00	18976	137.00	606	178.00	722
62.00	24760	94.00	56432	140.00	460		
63.00	21408	95.00	450816	141.00	5571		
64.00	2173	96.00	29608	142.00	845		

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airH.i Injection Date: 31-MAR-2019 07:42
 Lab File ID: 09002.D Init. Cal. Date(s): 25-MAR-2019 25-MAR-2019
 Analysis Type: AIR Init. Cal. Times: 08:22 10:53
 Lab Sample ID: CCV Quant Type: ISTD
 Method: \\192.168.10.12\chem\10airH.i\033119.b\TO15_084-19.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF %D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
1 1,1-Difluoroethane	0.21084	0.24500	0.24500	0.010	16.20133	30.00000	Aver (M)
2 Chlorodifluoromethane	0.11770	0.13794	0.13794	0.010	17.19936	30.00000	Aver (M)
3 Propylene	0.31461	0.37293	0.37293	0.010	18.53662	30.00000	Aver
4 Dichlorodifluoromethane	1.11582	1.25267	1.25267	0.010	12.26446	30.00000	Aver
5 Dichlorotetrafluoroethane	1.03543	1.08042	1.08042	0.010	4.34526	30.00000	Aver
6 Chloromethane	0.49076	0.50932	0.50932	0.010	3.78320	30.00000	Aver
7 Vinyl chloride	0.37932	0.41070	0.41070	0.010	8.27303	30.00000	Aver
8 1,3-Butadiene	0.28260	0.31404	0.31404	0.010	11.12515	30.00000	Aver
9 Bromomethane	0.35182	0.37398	0.37398	0.010	6.29784	30.00000	Aver
10 Chloroethane	0.17840	0.19448	0.19448	0.010	9.01069	30.00000	Aver
11 Ethanol	0.18287	0.19208	0.19208	0.005	5.03759	30.00000	Aver
12 Vinyl Bromide	0.32248	0.35675	0.35675	0.010	10.62508	30.00000	Aver
13 Isopentane	0.49259	0.50718	0.50718	0.010	2.96110	30.00000	Aver
14 Freon 123	0.85218	0.90310	0.90310	0.010	5.97553	30.00000	Aver
15 Trichlorofluoromethane	1.08277	1.10573	1.10573	0.010	2.12058	30.00000	Aver
16 Acrolein	0.15534	0.17154	0.17154	0.010	10.42890	30.00000	Aver
17 Acetone	0.81810	0.78209	0.78209	0.010	-4.40177	30.00000	Aver (M)
18 Isopropyl Alcohol	0.80737	0.81050	0.81050	0.010	0.38834	30.00000	Aver (M)
19 1,1-Dichloroethene	0.70925	0.75698	0.75698	0.010	6.72960	30.00000	Aver
20 Acrylonitrile	0.30361	0.33239	0.33239	0.010	9.48109	30.00000	Aver
21 Tert Butyl Alcohol (TBA)	0.96993	1.05229	1.05229	0.010	8.49181	30.00000	Aver
22 Methyl Acetate	1.00999	1.13853	1.13853	0.010	12.72696	30.00000	Aver
23 Freon 113	0.77402	0.86597	0.86597	0.010	11.87901	30.00000	Aver
24 Allyl Chloride	0.16393	0.21780	0.21780	0.010	32.85791	30.00000	Aver <-
25 Methylene chloride	0.55977	0.62466	0.62466	0.010	11.59218	30.00000	Aver
26 Carbon Disulfide	1.08811	1.29539	1.29539	0.010	19.04959	30.00000	Aver
27 Methyl Tert Butyl Ether	1.09599	1.28866	1.28866	0.010	17.57965	30.00000	Aver
28 trans-1,2-dichloroethene	0.36299	0.43319	0.43319	0.010	19.33667	30.00000	Aver
29 Vinyl Acetate	1.30655	1.58764	1.58764	0.010	21.51445	30.00000	Aver
30 1,1-Dichloroethane	0.76264	0.90588	0.90588	0.010	18.78248	30.00000	Aver
31 Methyl Ethyl Ketone	0.22705	0.23062	0.23062	0.010	1.56968	30.00000	Aver (M)
32 Di-isopropyl Ether	1.57016	1.83405	1.83405	0.010	16.80610	30.00000	Aver
33 n-Hexane	0.61020	0.71913	0.71913	0.010	17.85086	30.00000	Aver
34 Ethyl Acetate	1.09957	1.31294	1.31294	0.010	19.40440	30.00000	Aver
35 cis-1,2-Dichloroethene	0.38469	0.45818	0.45818	0.010	19.10294	30.00000	Aver
36 Ethyl Tert-Butyl Ether	1.39332	1.65277	1.65277	0.010	18.62136	30.00000	Aver
37 Chloroform	0.94421	1.08209	1.08209	0.010	14.60314	30.00000	Aver
38 Tetrahydrofuran	0.48802	0.58060	0.58060	0.010	18.97004	30.00000	Aver
39 1,1,1-Trichloroethane	0.93860	1.08324	1.08324	0.010	15.41028	30.00000	Aver
40 1,2-Dichloroethane	0.68856	0.80102	0.80102	0.010	16.33326	30.00000	Aver
41 Benzene	1.17877	1.37255	1.37255	0.010	16.43885	30.00000	Aver
42 Carbon tetrachloride	0.91693	1.09763	1.09763	0.010	19.70641	30.00000	Aver

Data File: \\192.168.10.12\chem\10airH.i\033119.b\09002.D
Report Date: 31-Mar-2019 08:24

QC Flag Legend

M - Compound response manually integrated.

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airH.i Injection Date: 31-MAR-2019 07:42
 Lab File ID: 09002.D Init. Cal. Date(s): 25-MAR-2019 25-MAR-2019
 Analysis Type: AIR Init. Cal. Times: 08:22 10:53
 Lab Sample ID: CCV Quant Type: ISTD
 Method: \\192.168.10.12\chem\10airH.i\033119.b\TO15_084-19.m

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	QC FLAGS
43 Cyclohexane	0.62664	0.75652	0.75652	0.010	20.72693	30.00000	Aver	
44 Tert Amyl Methyl Ether	1.16420	1.37840	1.37840	0.010	18.39924	30.00000	Aver	
46 2,2,4-Trimethylpentane	2.02478	2.35783	2.35783	0.010	16.44903	30.00000	Aver	
47 Heptane	0.84728	1.01418	1.01418	0.010	19.69844	30.00000	Aver	
48 Trichloroethene	0.47097	0.55246	0.55246	0.010	17.30306	30.00000	Aver	
49 1,2-Dichloropropane	0.47802	0.58559	0.58559	0.010	22.50373	30.00000	Aver	
50 Methyl methacrylate	0.44482	0.53163	0.53163	0.010	19.51576	30.00000	Aver	
51 1,4-Dioxane	0.24883	0.28913	0.28913	0.010	16.19618	30.00000	Aver	
52 Bromodichloromethane	1.02845	1.21263	1.21263	0.010	17.90861	30.00000	Aver	
53 Methylcyclohexane	0.25714	0.32199	0.32199	0.010	25.22267	30.00000	Aver	
54 Methyl Isobutyl Ketone	1.19764	1.41277	1.41277	0.010	17.96248	30.00000	Aver	
55 cis-1,3-Dichloropropene	0.79086	0.95045	0.95045	0.010	20.18040	30.00000	Aver	
56 trans-1,3-Dichloropropene	0.69270	0.85213	0.85213	0.010	23.01690	30.00000	Aver	
57 Toluene	1.38767	1.59498	1.59498	0.010	14.93899	30.00000	Aver	
58 1,1,2-Trichloroethane	0.48279	0.57598	0.57598	0.010	19.30355	30.00000	Aver	
59 Methyl Butyl Ketone	1.28898	1.47194	1.47194	0.010	14.19409	30.00000	Aver	
60 n-Octane	1.35018	1.59803	1.59803	0.010	18.35675	30.00000	Aver	
61 Dibromochloromethane	1.01531	1.21163	1.21163	0.010	19.33542	30.00000	Aver	
62 Tetrachloroethene	0.61222	0.72688	0.72688	0.010	18.72789	30.00000	Aver	
63 1,2-Dibromoethane	0.90596	1.07250	1.07250	0.010	18.38271	30.00000	Aver	
65 Chlorobenzene	1.16234	1.33994	1.33994	0.010	15.27915	30.00000	Aver	
66 Ethyl Benzene	2.16020	2.41427	2.41427	0.010	11.76120	30.00000	Aver	
67 m&p-Xylene	1.70981	1.91426	1.91426	0.010	11.95759	30.00000	Aver	(M)
68 n-Nonane	1.42435	1.70889	1.70889	0.010	19.97715	30.00000	Aver	
69 Styrene	1.07873	1.32545	1.32545	0.010	22.87112	30.00000	Aver	(M)
70 o-Xylene	1.74793	1.95965	1.95965	0.010	12.11279	30.00000	Aver	
71 Bromoform	0.73377	0.93174	0.93174	0.010	26.97996	30.00000	Aver	
72 1,1,2,2-Tetrachloroethane	1.23193	1.50671	1.50671	0.010	22.30412	30.00000	Aver	
73 Isopropylbenzene	2.04722	2.43304	2.43304	0.010	18.84622	30.00000	Aver	
74 N-Propylbenzene	2.72135	3.19289	3.19289	0.010	17.32721	30.00000	Aver	
75 4-Ethyltoluene	1.97363	2.40511	2.40511	0.010	21.86226	30.00000	Aver	
76 1,3,5-Trimethylbenzene	1.85673	2.09369	2.09369	0.010	12.76222	30.00000	Aver	
77 n-Decane	1.18270	1.46853	1.46853	0.010	24.16737	30.00000	Aver	
78 Tert-Butyl Benzene	1.53442	1.83885	1.83885	0.010	19.84013	30.00000	Aver	
79 1,2,4-Trimethylbenzene	1.89449	2.07764	2.07764	0.010	9.66747	30.00000	Aver	
80 Sec- Butylbenzene	2.45085	2.93336	2.93336	0.010	19.68747	30.00000	Aver	
81 1,3-Dichlorobenzene	0.91172	1.11168	1.11168	0.010	21.93226	30.00000	Aver	
82 Benzyl Chloride	1.13948	1.39797	1.39797	0.010	22.68446	30.00000	Aver	
83 1,4-Dichlorobenzene	0.88521	1.06608	1.06608	0.010	20.43210	30.00000	Aver	
84 p-Isopropyltoluene	2.00339	2.40524	2.40524	0.010	20.05840	30.00000	Aver	
85 1,2,3-Trimethylbenzene	1.72711	2.05900	2.05900	0.010	19.21639	30.00000	Aver	
86 1,2-Dichlorobenzene	0.87674	1.05643	1.05643	0.010	20.49446	30.00000	Aver	
87 N-Butylbenzene	2.00947	2.42865	2.42865	0.010	20.86065	30.00000	Aver	

Data File: \\192.168.10.12\chem\10airH.i\033119.b\09002.D
Report Date: 31-Mar-2019 08:24

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airH.i\033119.b\09002.D
Report Date: 31-Mar-2019 08:24

Pace Analytical Services, Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 10airH.i Injection Date: 31-MAR-2019 07:42
Lab File ID: 09002.D Init. Cal. Date(s): 25-MAR-2019 25-MAR-2019
Analysis Type: AIR Init. Cal. Times: 08:22 10:53
Lab Sample ID: CCV Quant Type: ISTD
Method: \\192.168.10.12\chem\10airH.i\033119.b\TO15_084-19.m

COMPOUND	RRF / AMOUNT	RF10	CCAL	MIN	MAX	CURVE	QC
			RRF10	RRF %D / %DRIFT	%D / %DRIFT	TYPE	FLAGS
88 1,2-Dibromo-3-Chloropropane	10.00000	10.91489	0.52677	0.010	9.14894	30.00000	Quad
89 1,2,4-Trichlorobenzene	10.00000	10.77677	0.56734	0.010	7.76774	30.00000	Quad
90 Naphthalene	10.00000	10.54464	1.50002	0.010	5.44637	30.00000	Quad
91 Hexachlorobutadiene	10.00000	11.52490	0.59758	0.010	15.24905	30.00000	Quad

QC Flag Legend

M - Compound response manually integrated.

```
|Average %D / Drift Results. |
|=====|
|Calculated Average %D/Drift = 15.53743 |
|Maximun Average %D/Drift = 0.000e+000 |
|* Failed Average %D/Drift Test. |
|_____|
```

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airH.i\033119.b\09002.D
 Lab Smp Id: CCV
 Inj Date : 31-MAR-2019 07:42
 Operator : MJL Inst ID: 10airH.i
 Smp Info :
 Misc Info :
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airH.i\033119.b\TO15_084-19.m
 Meth Date : 31-Mar-2019 08:19 mlytle Quant Type: ISTD
 Cal Date : 25-MAR-2019 10:53 Cal File: 08412.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT (ppbv)	ON-COL (ppbv)
1 1,1-Difluoroethane	65		2.922	2.922	(0.538)	102561	10.0000	11.6 (M)
2 Chlorodifluoromethane	67		2.938	2.938	(0.541)	57744	10.0000	11.7 (M)
3 Propylene	41		2.945	2.945	(0.542)	156118	10.0000	11.9
4 Dichlorodifluoromethane	85		2.964	2.964	(0.546)	524397	10.0000	11.2
5 Dichlorotetrafluoroethane	85		3.035	3.035	(0.559)	452288	10.0000	10.4
6 Chloromethane	50		3.038	3.038	(0.559)	213214	10.0000	10.4
7 Vinyl chloride	62		3.109	3.109	(0.572)	171929	10.0000	10.8
8 1,3-Butadiene	54		3.141	3.141	(0.578)	131462	10.0000	11.1
9 Bromomethane	94		3.257	3.257	(0.599)	156555	10.0000	10.6
10 Chloroethane	64		3.302	3.302	(0.608)	81413	10.0000	10.9
11 Ethanol	45		3.308	3.308	(0.609)	402047	50.0000	52.5
12 Vinyl Bromide	106		3.408	3.408	(0.627)	149343	10.0000	11.1
13 Isopentane	43		3.421	3.421	(0.630)	212316	10.0000	10.3
14 Freon 123	83		3.459	3.459	(0.637)	378057	10.0000	10.6
15 Trichlorofluoromethane	101		3.482	3.482	(0.641)	462883	10.0000	10.2
16 Acrolein	56		3.482	3.482	(0.641)	179522	25.0000	27.6
17 Acetone	43		3.504	3.504	(0.645)	1636994	50.0000	47.8 (M)
18 Isopropyl Alcohol	45		3.527	3.527	(0.649)	1696471	50.0000	50.2 (M)
19 1,1-Dichloroethene	61		3.697	3.697	(0.680)	316890	10.0000	10.7
20 Acrylonitrile	53		3.704	3.704	(0.682)	347868	25.0000	27.4
21 Tert Butyl Alcohol (TBA)	59		3.720	3.720	(0.685)	440513	10.0000	10.8
22 Methyl Acetate	43		3.726	3.726	(0.686)	476615	10.0000	11.3
23 Freon 113	101		3.733	3.733	(0.687)	362513	10.0000	11.2

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
24 Allyl Chloride	76		3.807	3.807	(0.701)	91174	10.0000	13.3	
25 Methylene chloride	49		3.810	3.810	(0.701)	1307488	50.0000	55.8	
26 Carbon Disulfide	76		3.916	3.916	(0.721)	542277	10.0000	11.9	
27 Methyl Tert Butyl Ether	73		4.061	4.061	(0.747)	539460	10.0000	11.8	
28 trans-1,2-dichloroethene	96		4.077	4.077	(0.750)	181341	10.0000	11.9	
29 Vinyl Acetate	43		4.151	4.151	(0.764)	664623	10.0000	12.2	
30 1,1-Dichloroethane	63		4.202	4.202	(0.773)	379222	10.0000	11.9	
31 Methyl Ethyl Ketone	72		4.311	4.311	(0.793)	96542	10.0000	10.2 (M)	
32 Di-isopropyl Ether	45		4.337	4.337	(0.798)	767772	10.0000	11.7	
33 n-Hexane	57		4.347	4.347	(0.800)	301043	10.0000	11.8	
34 Ethyl Acetate	43		4.469	4.469	(0.822)	549624	10.0000	11.9	
35 cis-1,2-Dichloroethene	96		4.491	4.491	(0.827)	191803	10.0000	11.9	
36 Ethyl Tert-Butyl Ether	59		4.562	4.562	(0.840)	691886	10.0000	11.9	
37 Chloroform	83		4.671	4.671	(0.860)	452988	10.0000	11.5	
38 Tetrahydrofuran	42		4.736	4.736	(0.872)	243050	10.0000	11.9	
39 1,1,1-Trichloroethane	97		4.983	4.983	(0.917)	453469	10.0000	11.5	
40 1,2-Dichloroethane	62		5.064	5.064	(0.932)	335324	10.0000	11.6	
41 Benzene	78		5.221	5.221	(0.961)	574579	10.0000	11.6	
42 Carbon tetrachloride	117		5.237	5.237	(0.964)	459491	10.0000	12.0	
43 Cyclohexane	56		5.263	5.263	(0.969)	316696	10.0000	12.1	
44 Tert Amyl Methyl Ether	73		5.360	5.360	(0.986)	577029	10.0000	11.8	
* 45 1,4-Difluorobenzene	114		5.433	5.433	(1.000)	418622	10.0000		
46 2,2,4-Trimethylpentane	57		5.530	5.530	(1.018)	987041	10.0000	11.6	
47 Heptane	43		5.659	5.659	(1.041)	424558	10.0000	12.0	
48 Trichloroethene	130		5.765	5.765	(1.061)	231271	10.0000	11.7	
49 1,2-Dichloropropane	63		5.810	5.810	(1.069)	245140	10.0000	12.3	
50 Methyl methacrylate	69		5.803	5.803	(1.068)	222550	10.0000	12.0	
51 1,4-Dioxane	88		5.851	5.851	(1.077)	302595	25.0000	29.0	
52 Bromodichloromethane	83		5.970	5.970	(1.099)	507632	10.0000	11.8	
53 Methylcyclohexane	98		6.237	6.237	(1.148)	134793	10.0000	12.5	
54 Methyl Isobutyl Ketone	43		6.308	6.308	(1.161)	591415	10.0000	11.8	
55 cis-1,3-Dichloropropene	75		6.395	6.395	(1.177)	397881	10.0000	12.0	
56 trans-1,3-Dichloropropene	75		6.839	6.839	(1.259)	356722	10.0000	12.3	
57 Toluene	91		6.938	6.938	(1.277)	667692	10.0000	11.5	
58 1,1,2-Trichloroethane	97		7.064	7.064	(1.300)	241119	10.0000	11.9	
59 Methyl Butyl Ketone	43		7.154	7.154	(0.849)	545599	10.0000	11.4	
60 n-Octane	43		7.363	7.363	(0.874)	592334	10.0000	11.8	
61 Dibromochloromethane	129		7.601	7.601	(0.902)	449110	10.0000	11.9	
62 Tetrachloroethene	166		7.684	7.684	(0.912)	269428	10.0000	11.9	
63 1,2-Dibromoethane	107		7.800	7.800	(0.926)	397540	10.0000	11.8	
* 64 Chlorobenzene - d5	117		8.427	8.427	(1.000)	370666	10.0000		
65 Chlorobenzene	112		8.469	8.469	(1.005)	496669	10.0000	11.5	
66 Ethyl Benzene	91		8.691	8.691	(1.031)	894888	10.0000	11.2	
67 m&p-Xylene	91		8.874	8.874	(1.053)	1419103	20.0000	22.4 (M)	
68 n-Nonane	43		9.215	9.215	(1.093)	633428	10.0000	12.0	
69 Styrene	104		9.276	9.276	(1.101)	491298	10.0000	12.3 (M)	
70 o-Xylene	91		9.311	9.311	(1.105)	726375	10.0000	11.2	
71 Bromoform	173		9.382	9.382	(1.113)	345365	10.0000	12.7	
72 1,1,2,2-Tetrachloroethane	83		9.723	9.723	(1.154)	558485	10.0000	12.2	
73 Isopropylbenzene	105		9.861	9.861	(1.170)	901846	10.0000	11.9	
74 N-Propylbenzene	91		10.430	10.430	(1.238)	1183495	10.0000	11.7	
75 4-Ethyltoluene	105		10.613	10.613	(1.259)	891494	10.0000	12.2	
76 1,3,5-Trimethylbenzene	105		10.687	10.687	(1.268)	776059	10.0000	11.3	
77 n-Decane	57		11.041	11.041	(2.032)	614758	10.0000	12.4	

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
78 Tert-Butyl Benzene	119		11.134	11.134	(1.321)	681599	10.0000	12.0
79 1,2,4-Trimethylbenzene	105		11.179	11.179	(1.327)	770111	10.0000	11.0
80 Sec- Butylbenzene	105		11.440	11.440	(1.357)	1087298	10.0000	12.0
81 1,3-Dichlorobenzene	146		11.472	11.472	(1.361)	412062	10.0000	12.2
82 Benzyl Chloride	91		11.543	11.543	(1.370)	518180	10.0000	12.3
83 1,4-Dichlorobenzene	146		11.604	11.604	(1.377)	395159	10.0000	12.0
84 p-Isopropyltoluene	119		11.645	11.645	(1.382)	891541	10.0000	12.0
85 1,2,3-Trimethylbenzene	105		11.658	11.658	(1.383)	763200	10.0000	11.9
86 1,2-Dichlorobenzene	146		11.912	11.912	(1.414)	391582	10.0000	12.0
87 N-Butylbenzene	91		12.092	12.092	(1.435)	900219	10.0000	12.1
88 1,2-Dibromo-3-Chloropropane	157		12.610	12.610	(1.496)	195256	10.0000	10.9
89 1,2,4-Trichlorobenzene	180		13.555	13.555	(1.609)	210294	10.0000	10.8
90 Naphthalene	128		13.694	13.694	(1.625)	556006	10.0000	10.5
91 Hexachlorobutadiene	225		13.803	13.803	(1.638)	221502	10.0000	11.5

QC Flag Legend

M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airH.i\033119.b\09002.D
Report Date: 31-Mar-2019 08:24

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airH.i
Lab File ID: 09002.D
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airH.i\033119.b\TO15_084-19.m
Misc Info:

Calibration Date: 30-MAR-2019
Calibration Time: 06:52

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	451734	271040	632428	418622	-7.33
64 Chlorobenzene - d	397119	238271	555967	370666	-6.66

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.43	5.10	5.76	5.43	0.00
64 Chlorobenzene - d	8.43	8.10	8.76	8.43	0.00

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

Data File: \\192.168.10.12\chem\10airH.i\033119.b\09002.D

Date : 31-MAR-2019 07:42

Client ID:

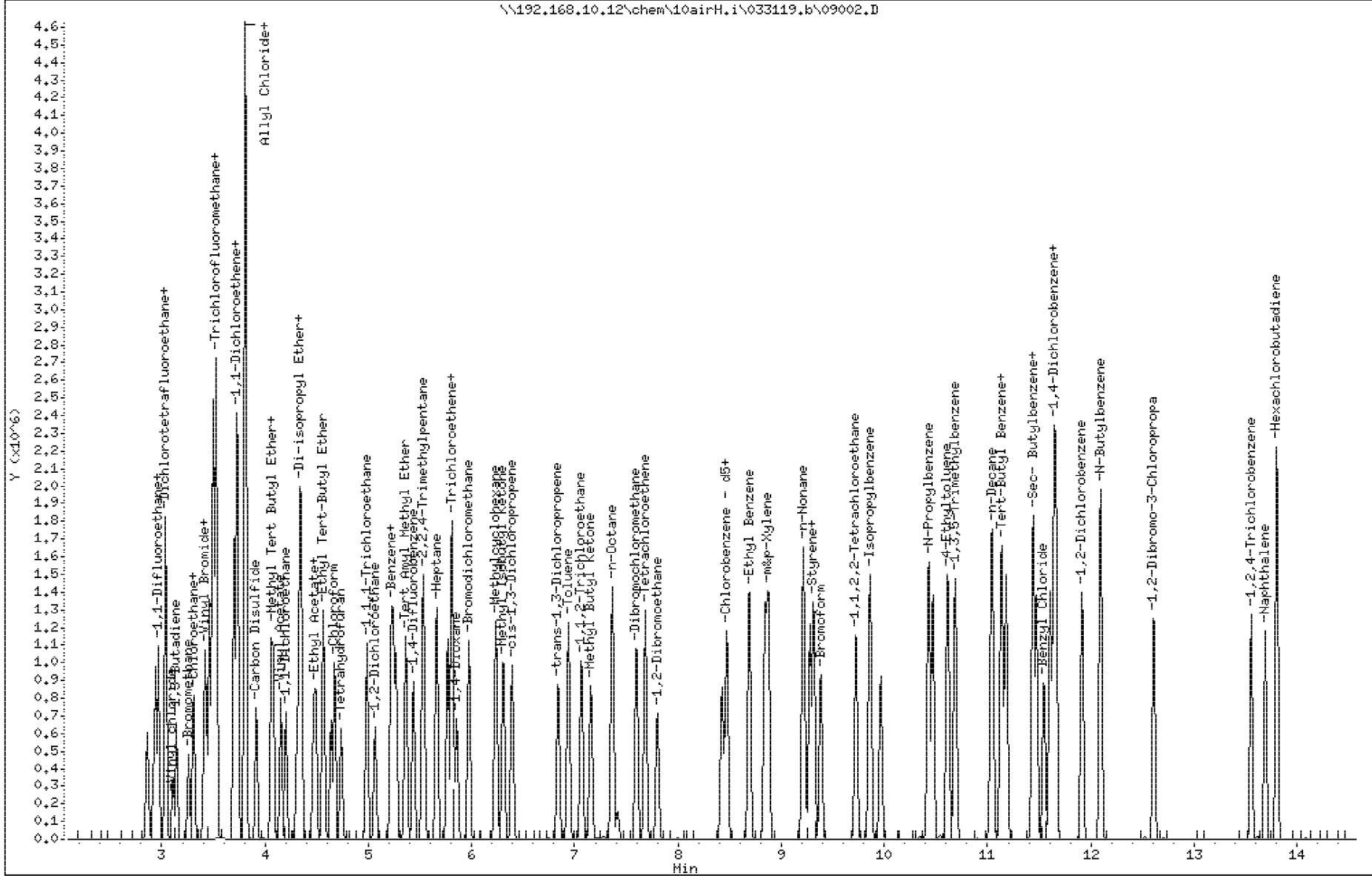
Sample Info:

Column phase: ZB-5MSplus SN338857

Instrument: 10airH.i

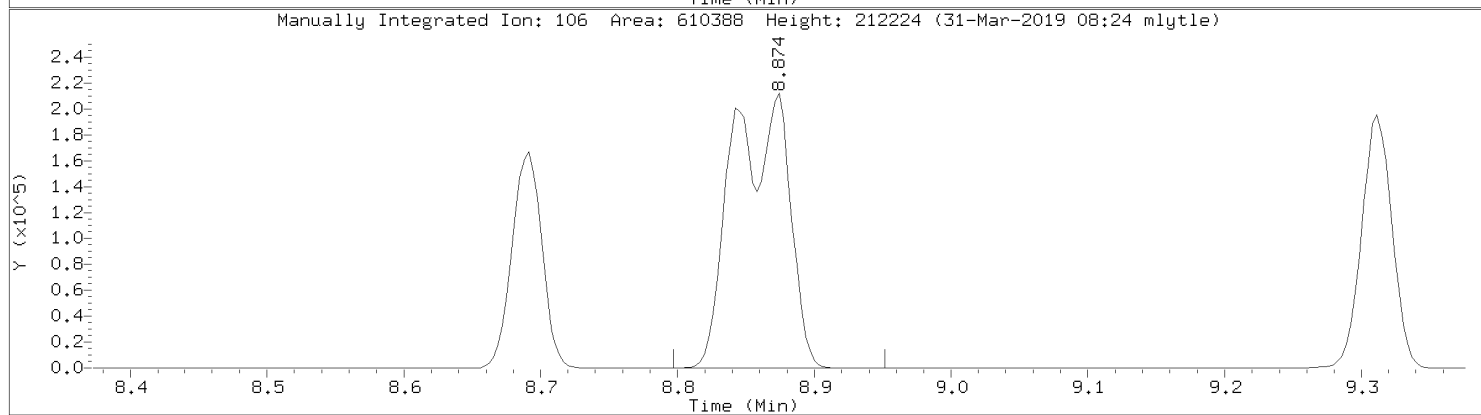
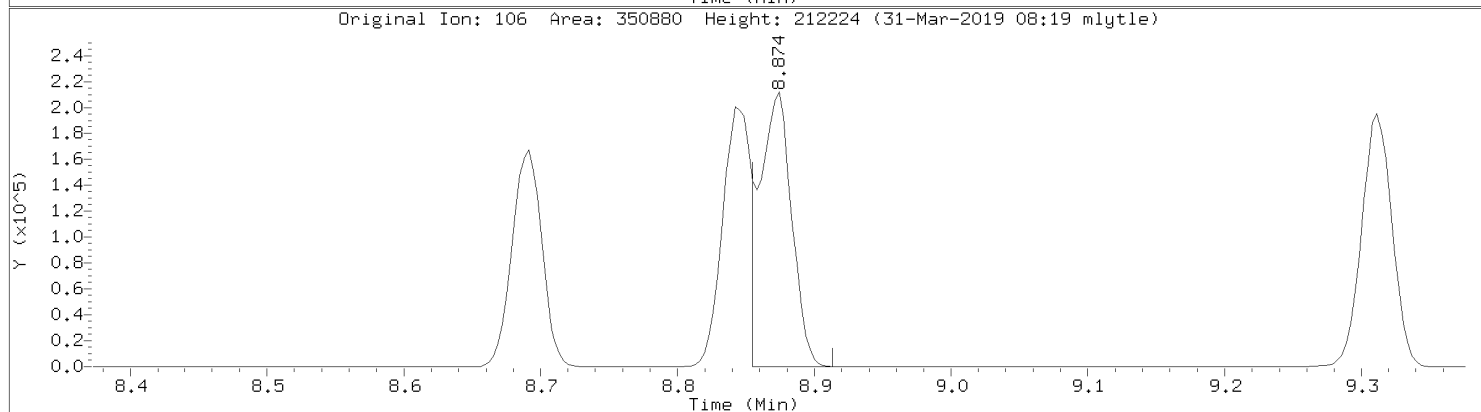
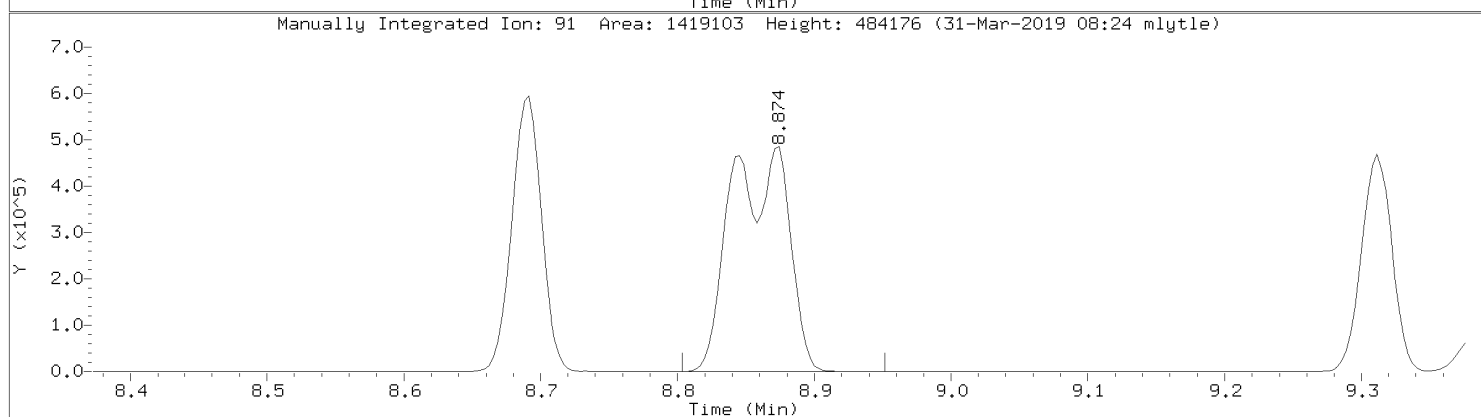
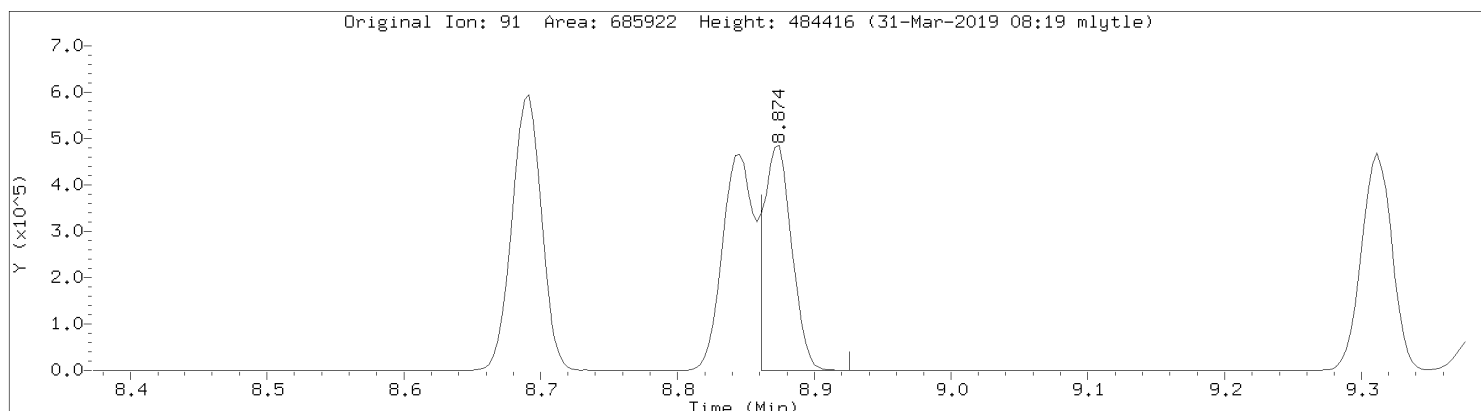
Operator: MJL

Column diameter: 0.32



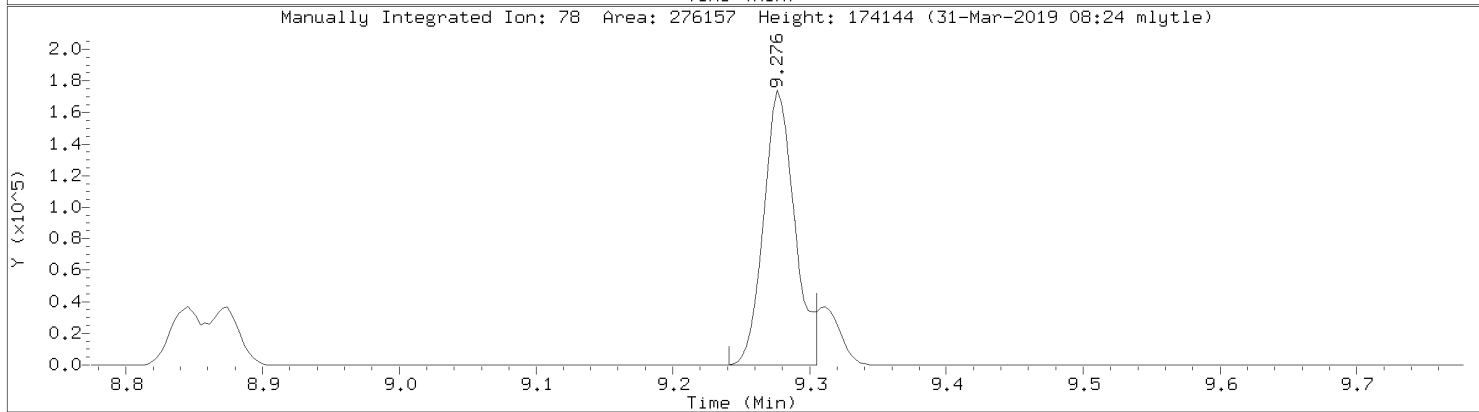
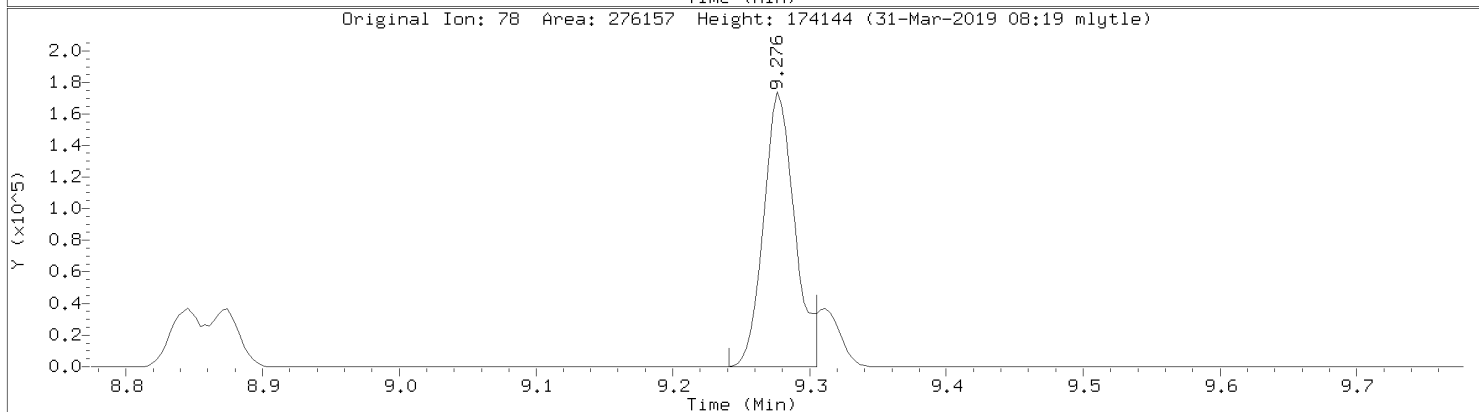
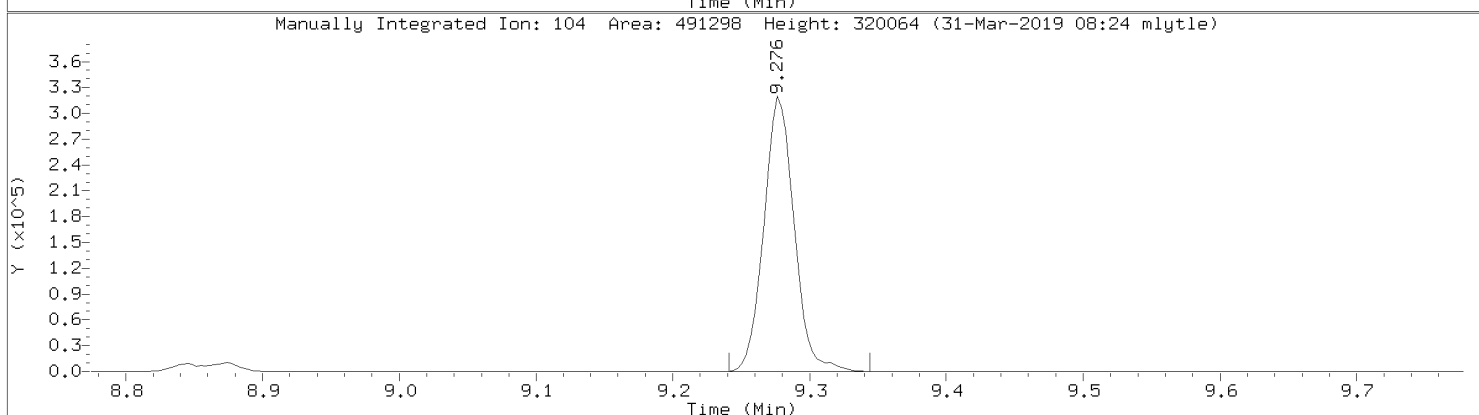
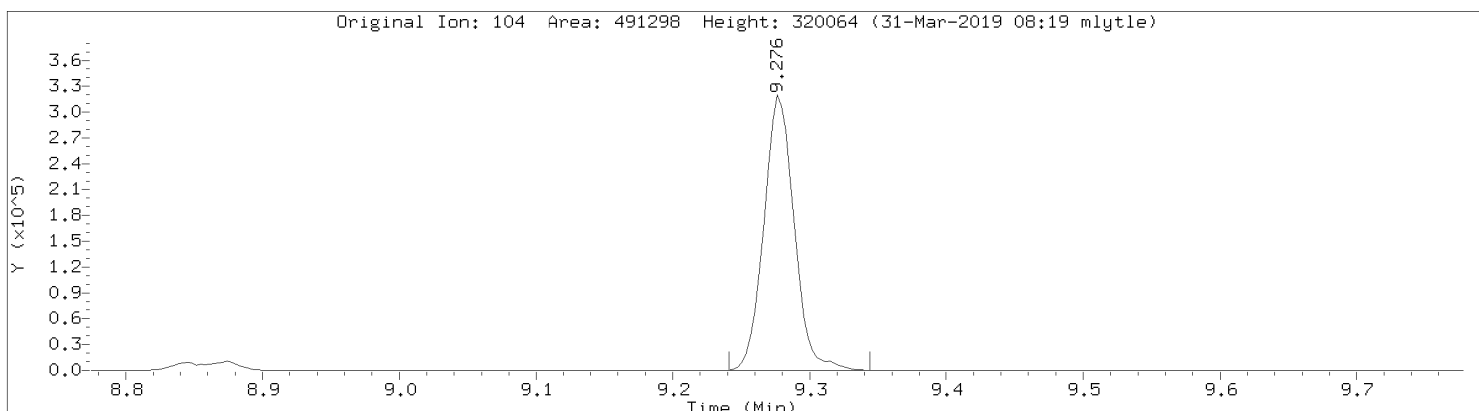
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Injection Date: 31-MAR-2019 07:42
Instrument: 10airH.i
Lab Sample ID: CCV

Compound: m&p-Xylene
CAS Number: 7816-60-0

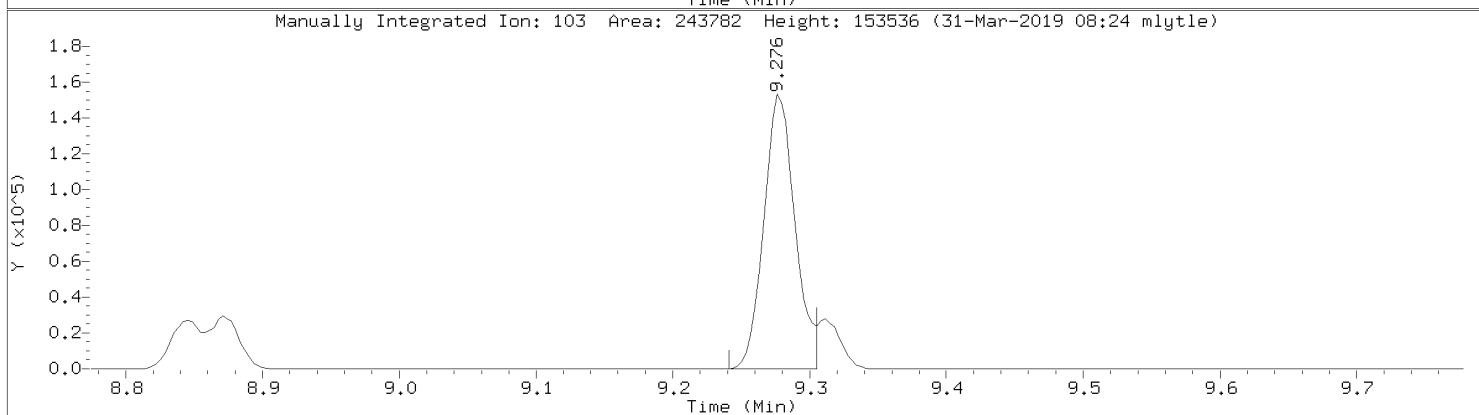
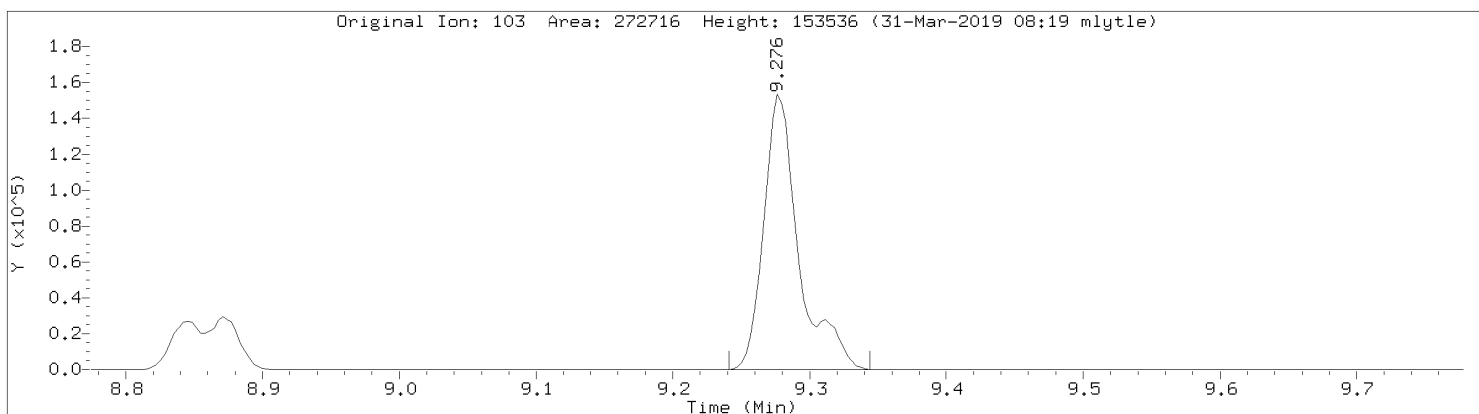


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Injection Date: 31-MAR-2019 07:42
Instrument: 10airH.i
Lab Sample ID: CCV

Compound: Styrene
CAS Number: 100-42-5

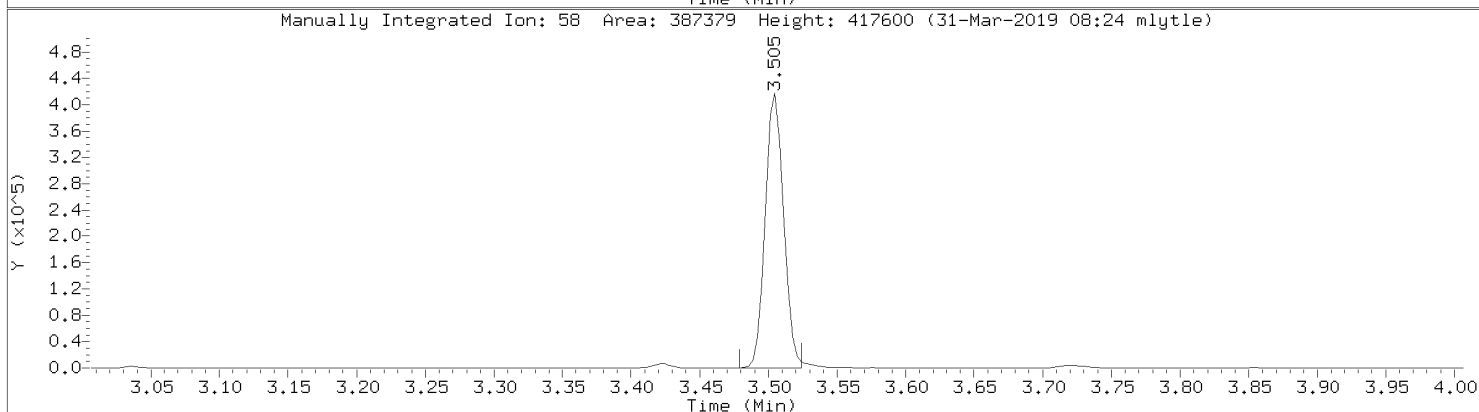
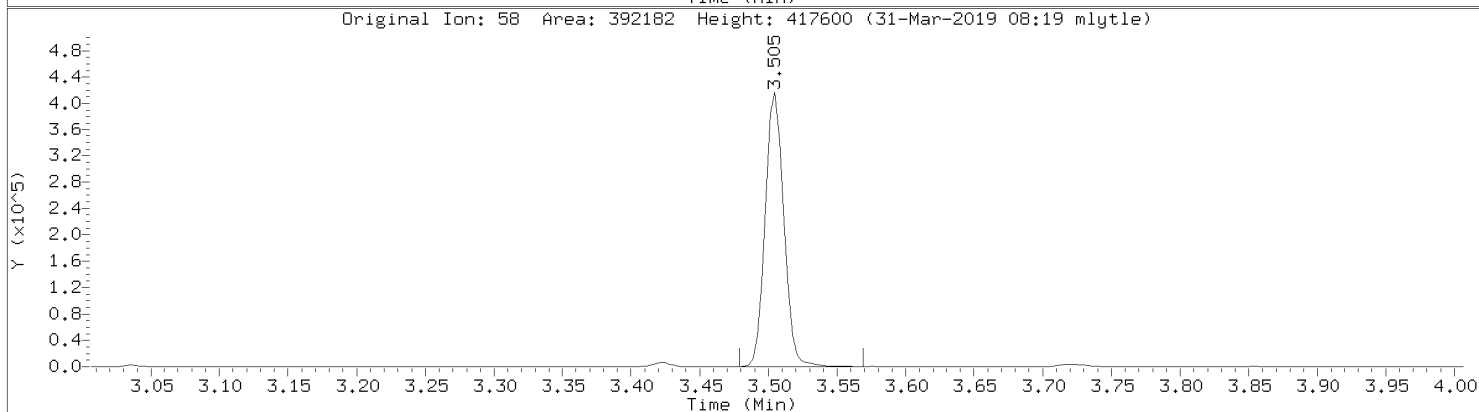
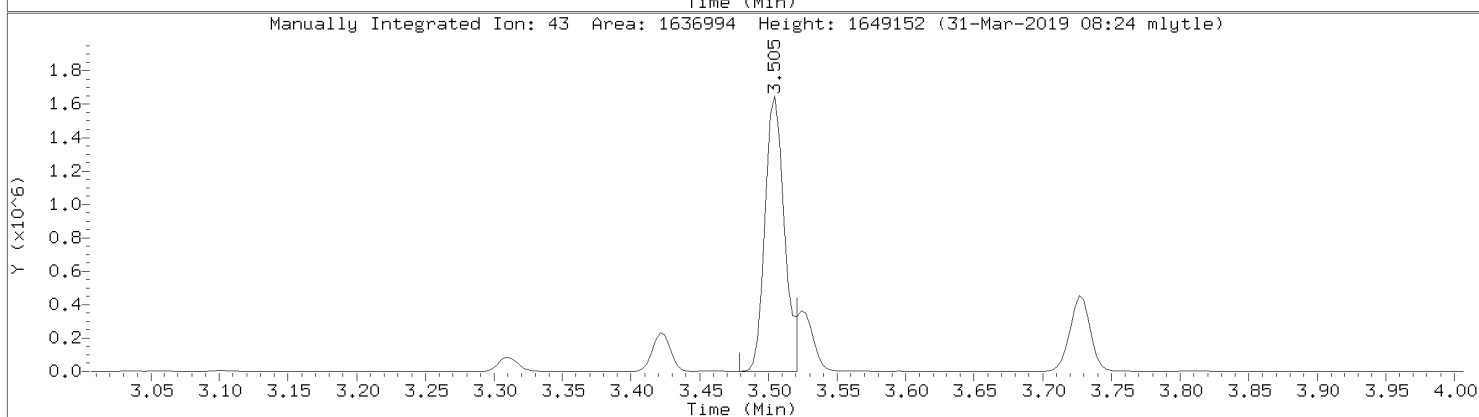
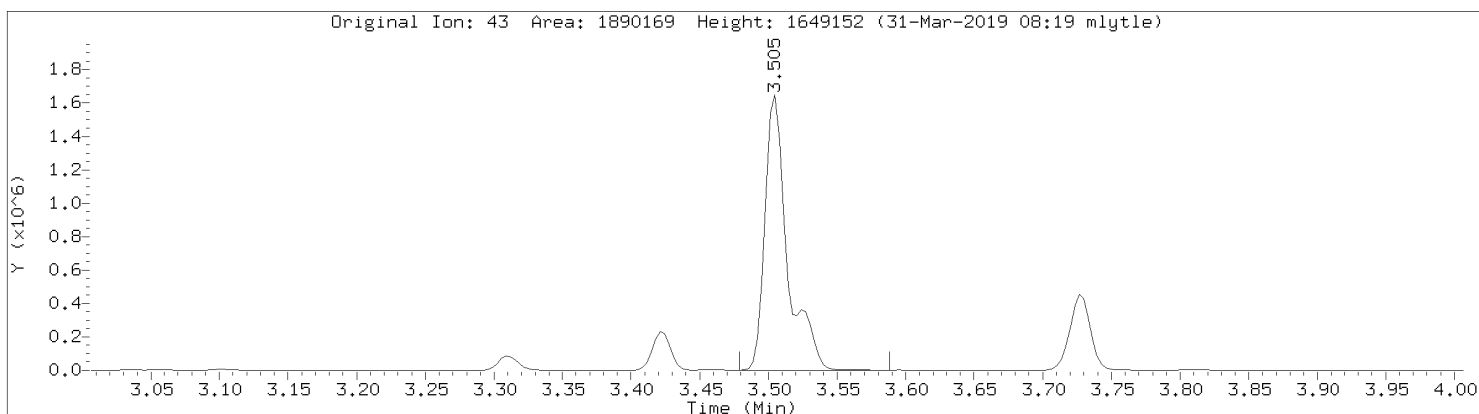


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Injection Date: 31-MAR-2019 07:42
Instrument: 10airH.i
Lab Sample ID: CCV



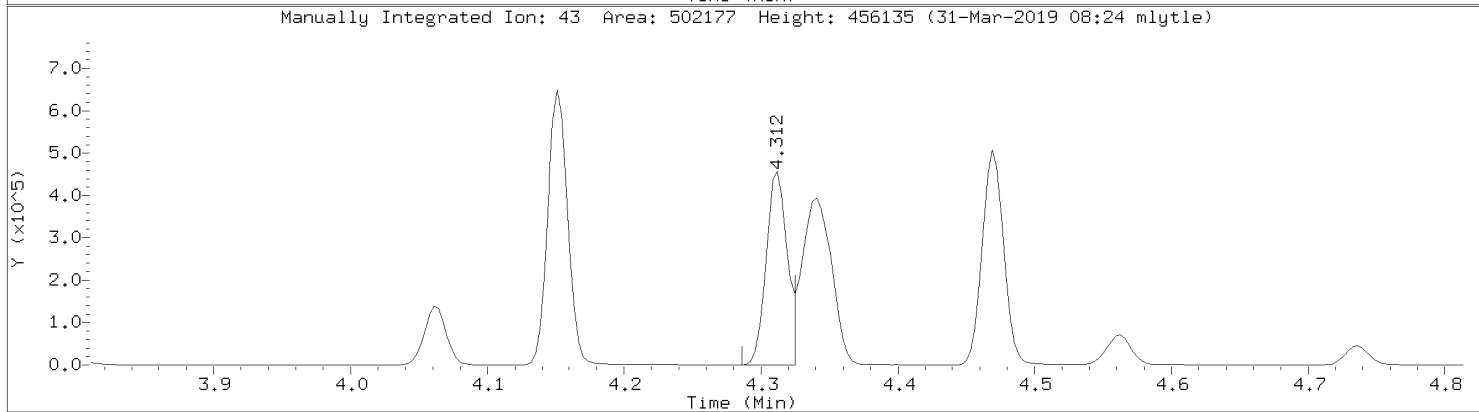
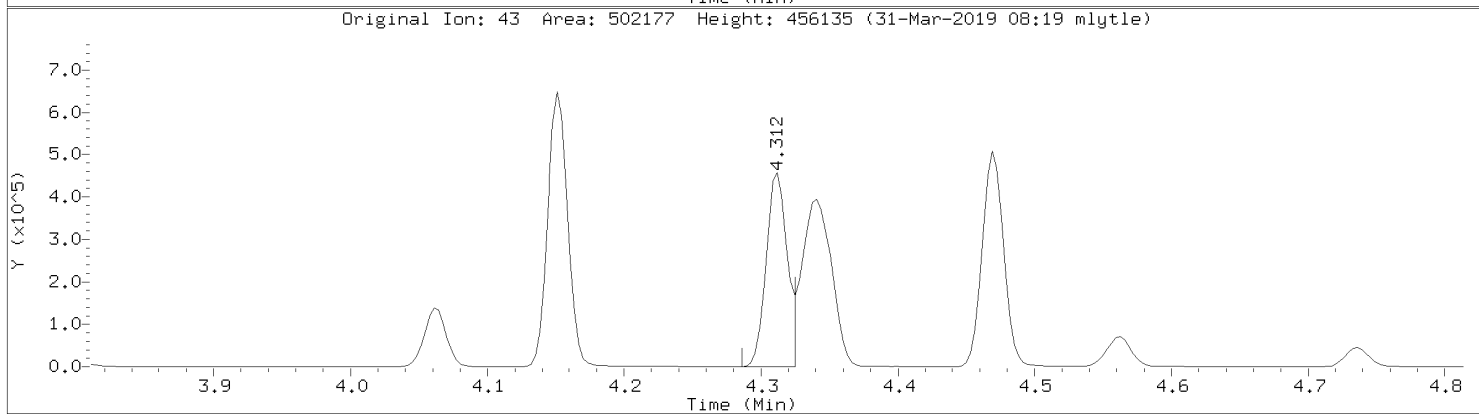
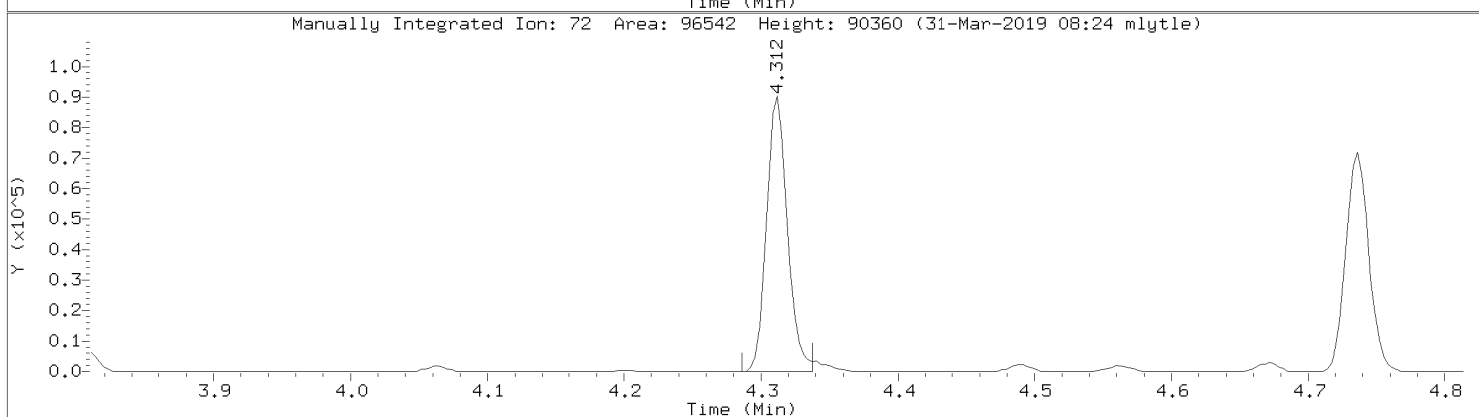
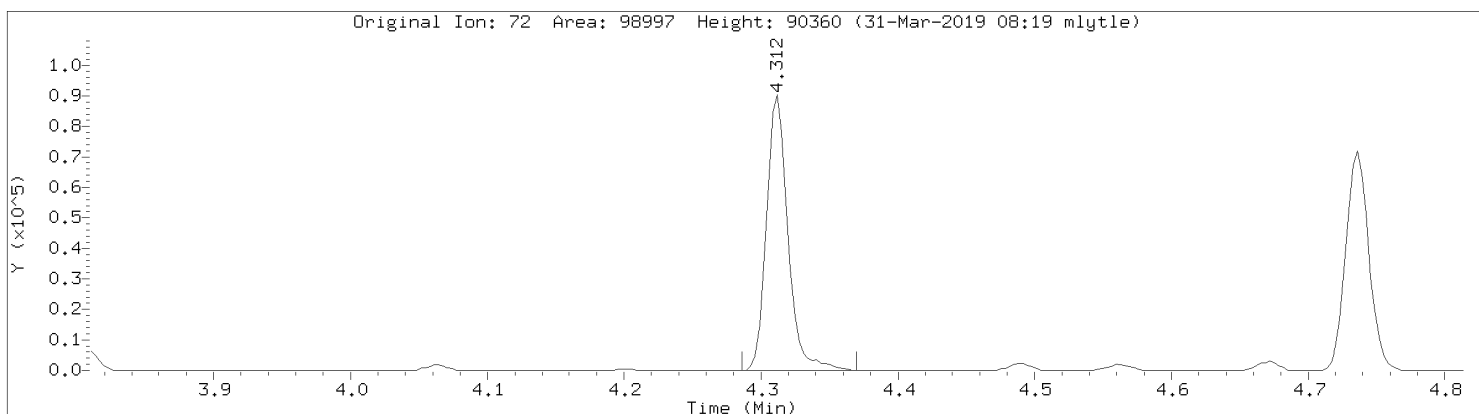
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Injection Date: 31-MAR-2019 07:42
Instrument: 10airH.i
Lab Sample ID: CCV

Compound: Acetone
CAS Number: 67-64-1



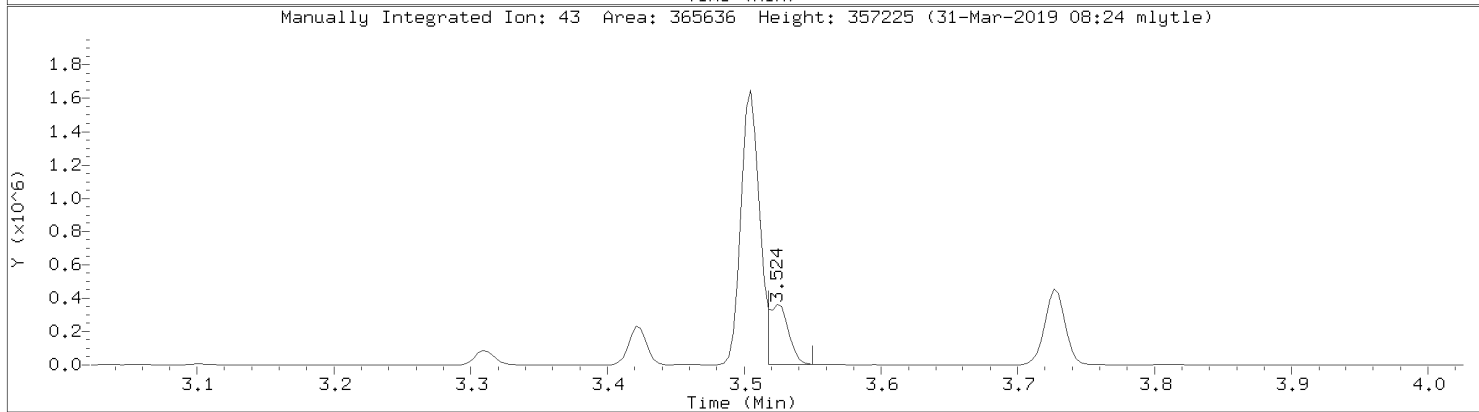
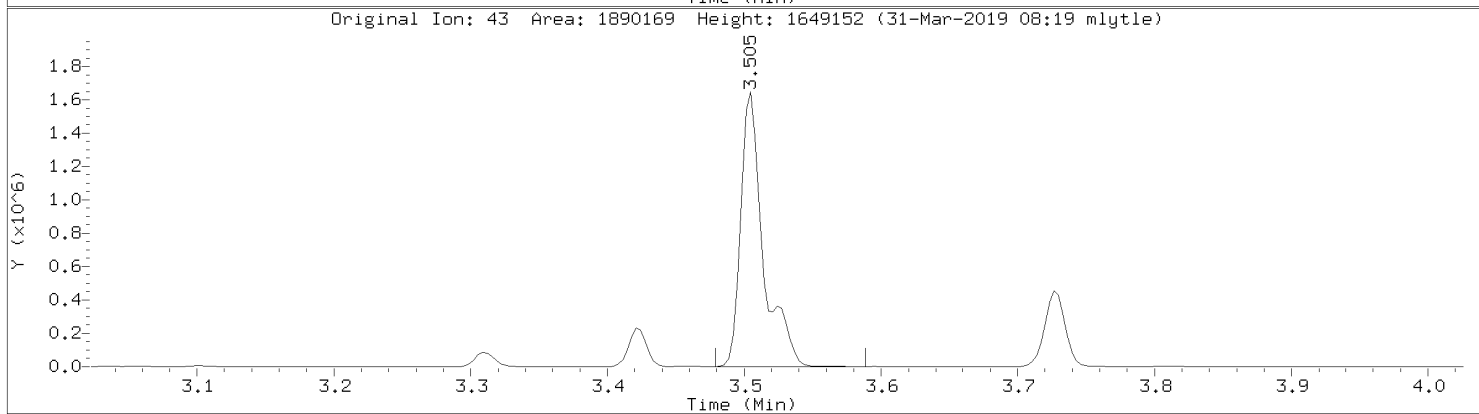
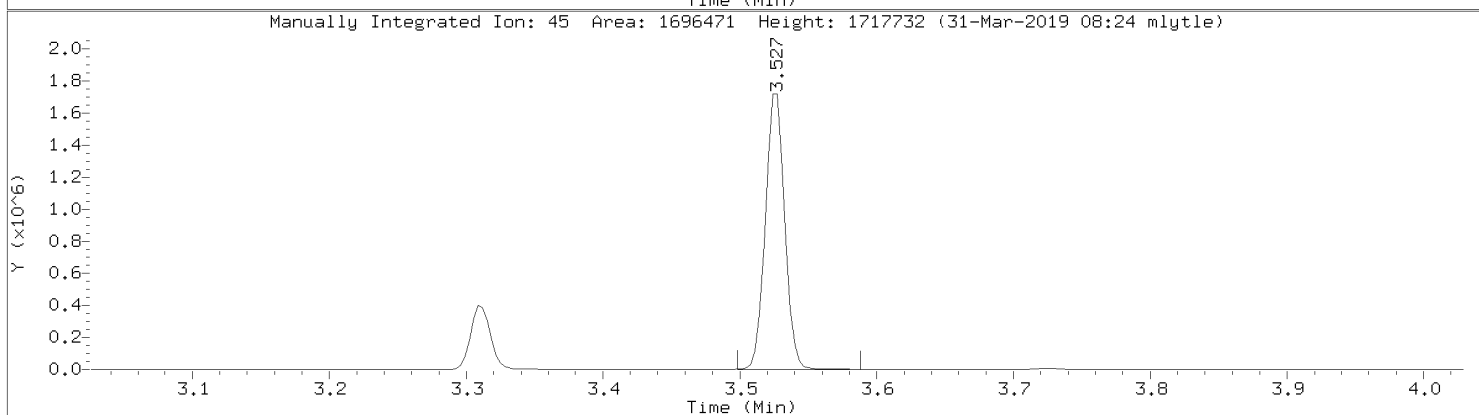
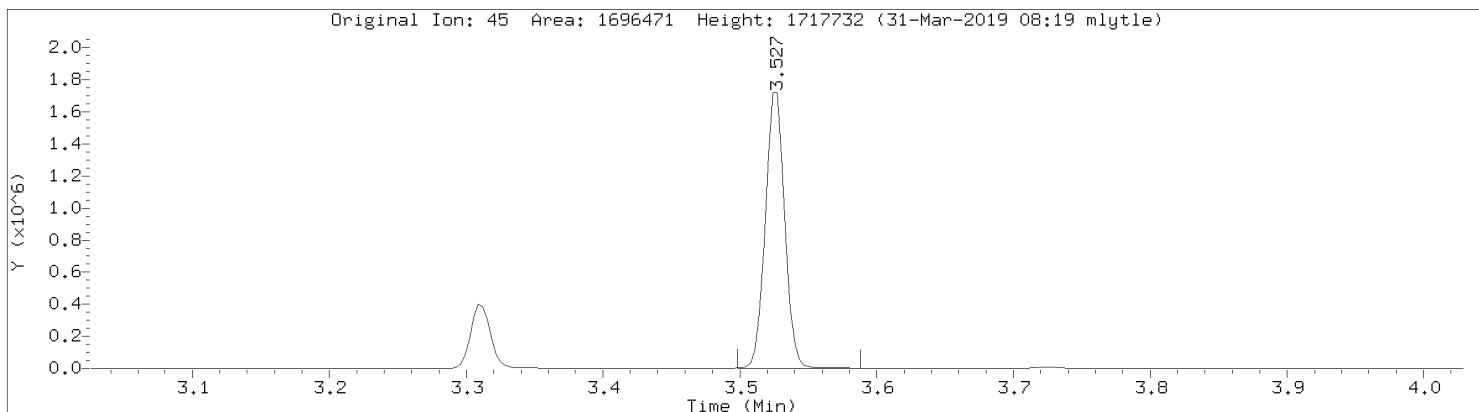
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Injection Date: 31-MAR-2019 07:42
Instrument: 10airH.i
Lab Sample ID: CCV

Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3



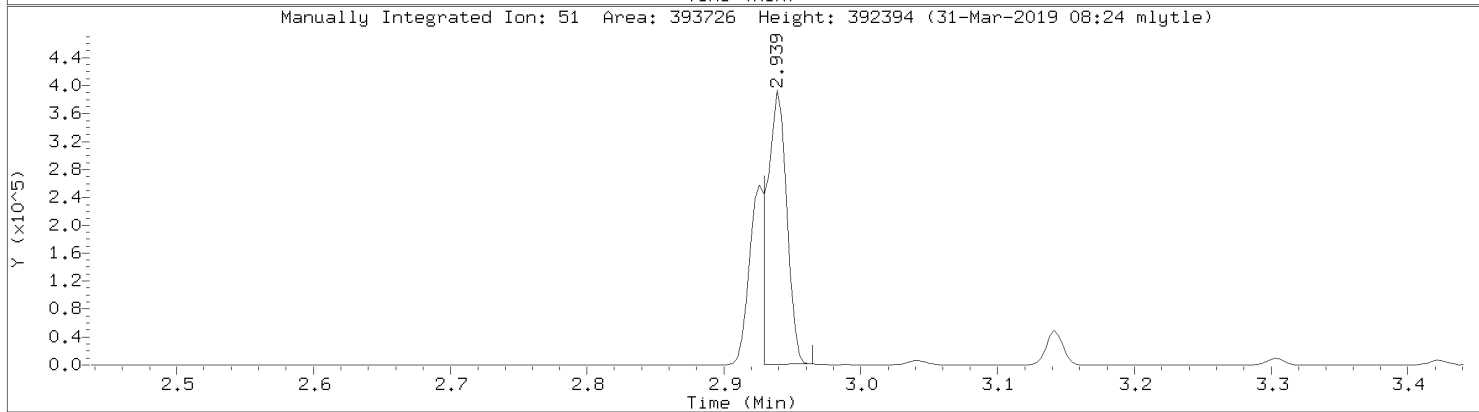
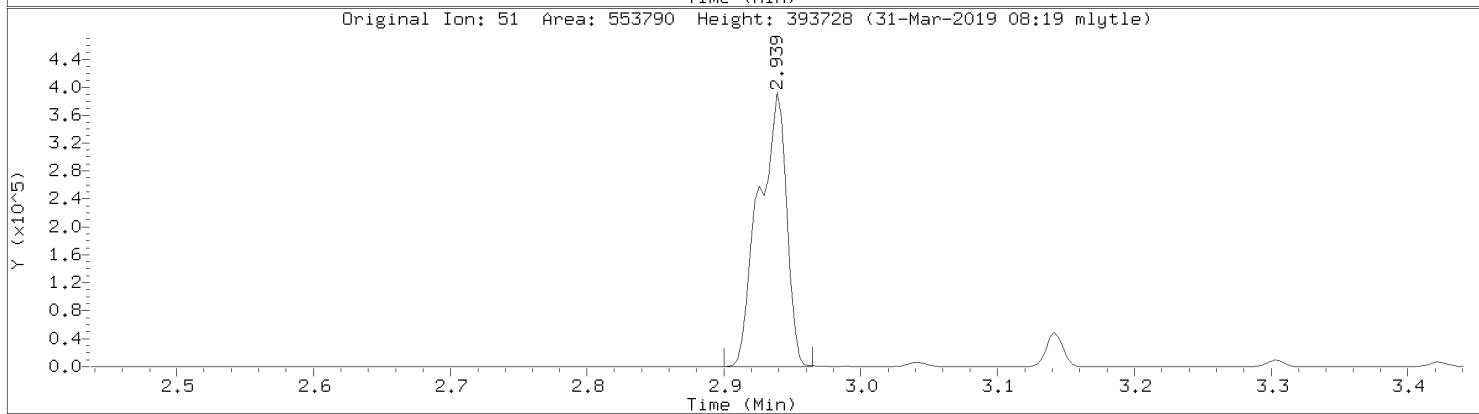
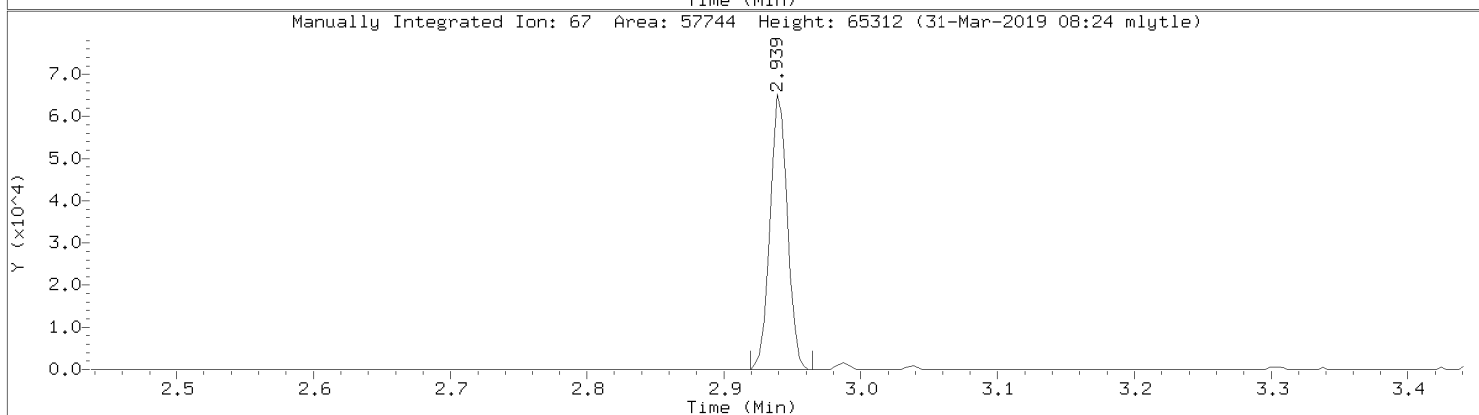
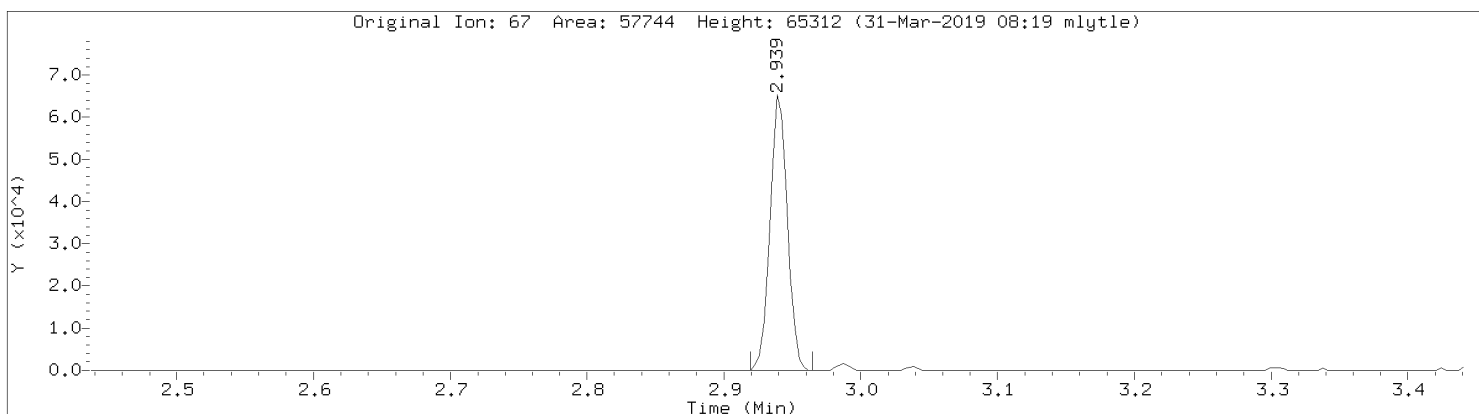
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Injection Date: 31-MAR-2019 07:42
Instrument: 10airH.i
Lab Sample ID: CCV

Compound: Isopropyl Alcohol
CAS Number: 67-63-0

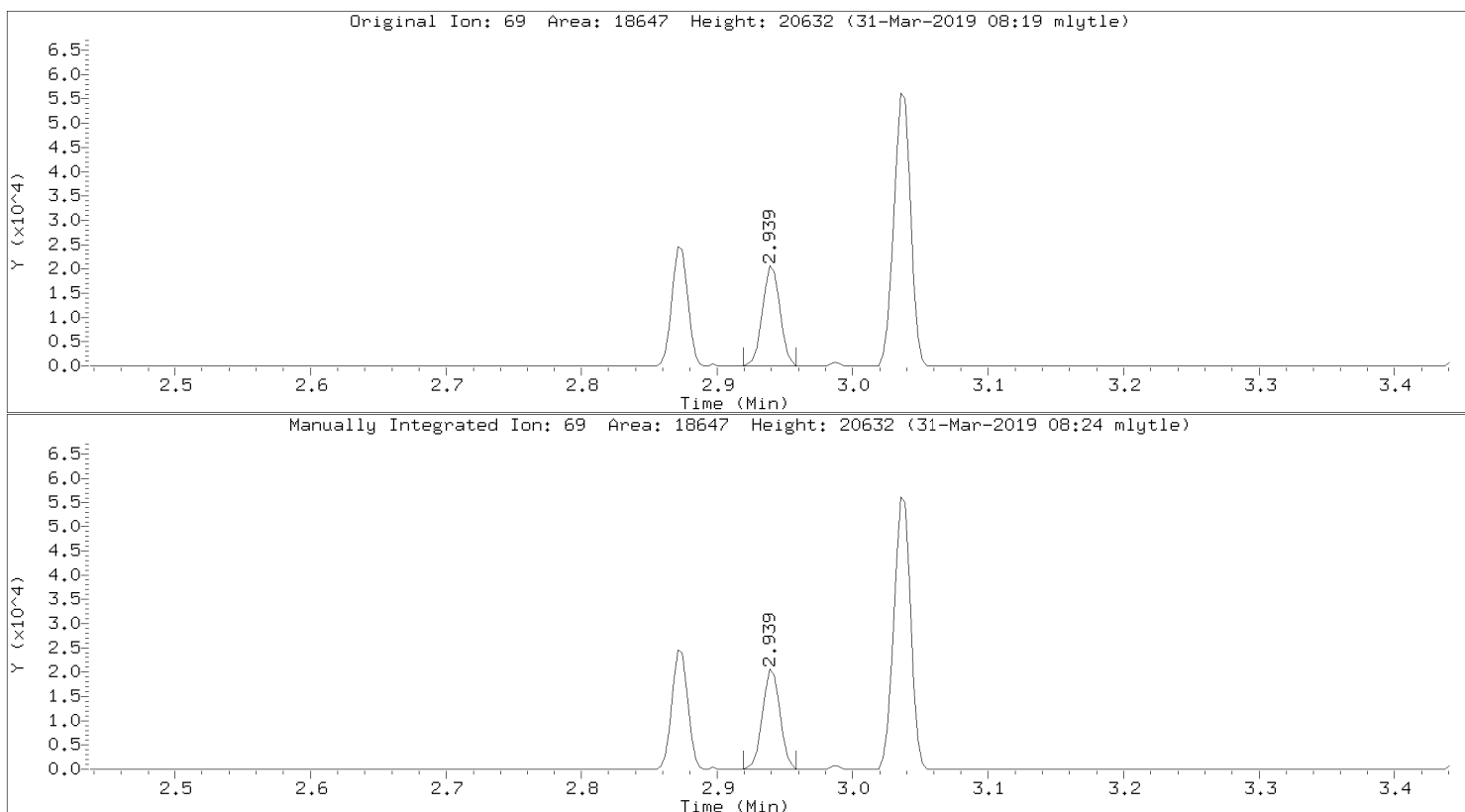


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Injection Date: 31-MAR-2019 07:42
Instrument: 10airH.i
Lab Sample ID: CCV

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

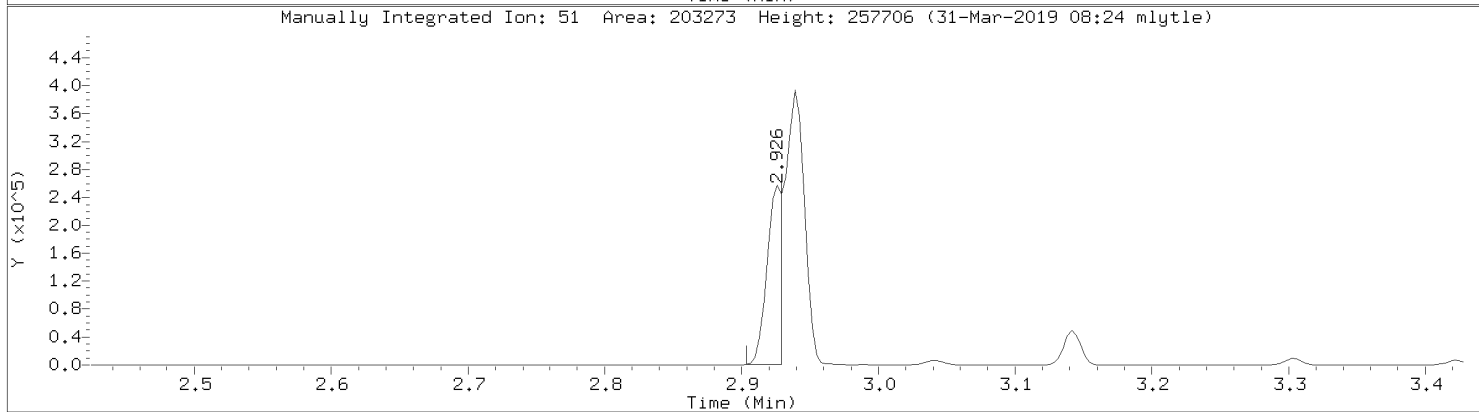
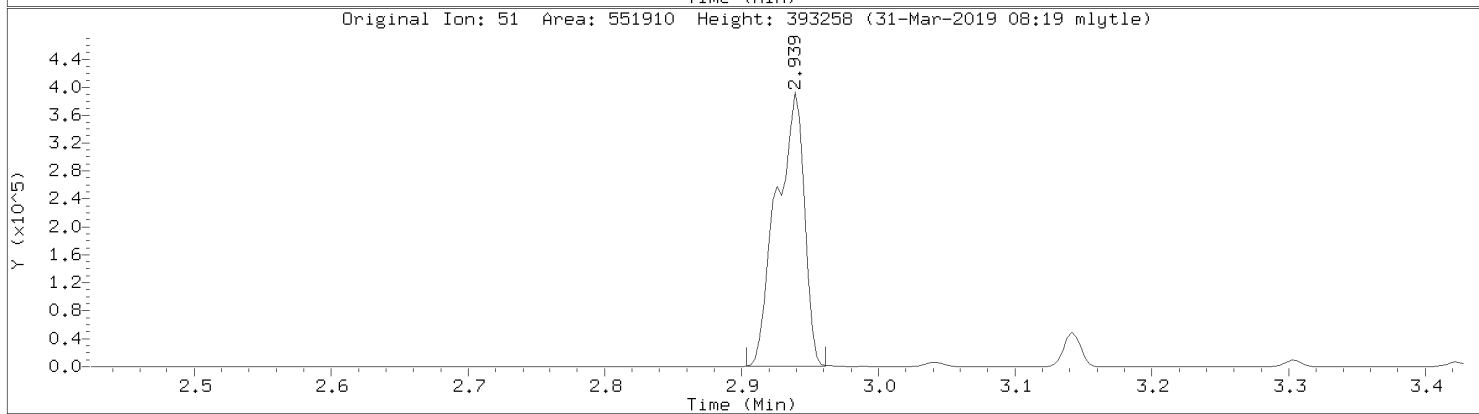
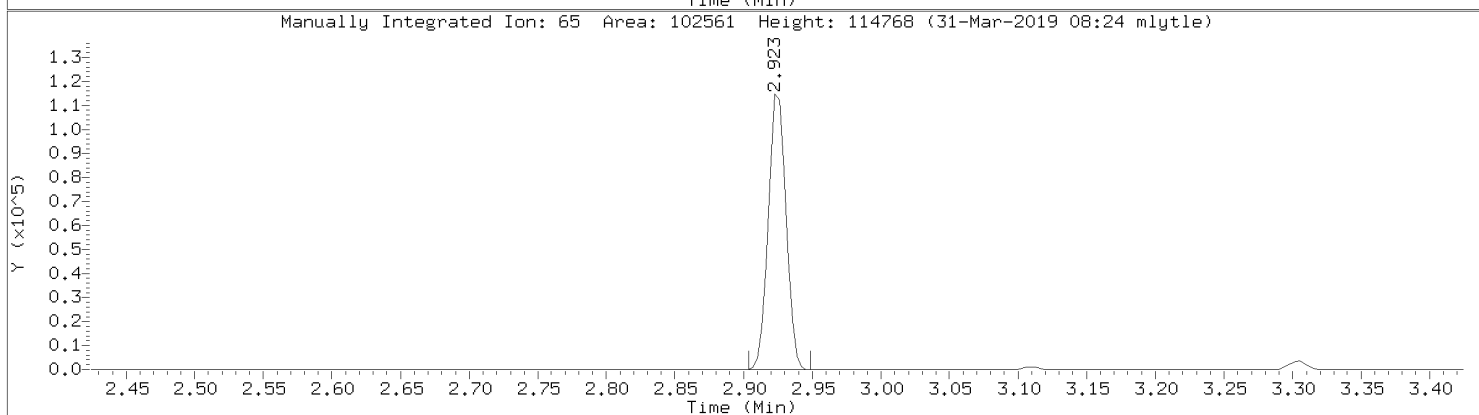
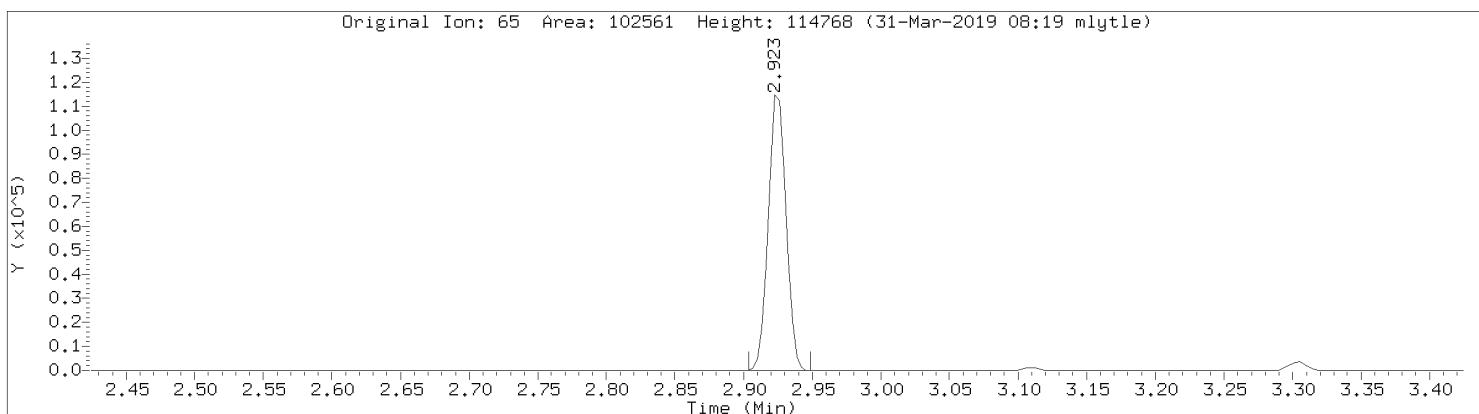


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Injection Date: 31-MAR-2019 07:42
Instrument: 10airH.i
Lab Sample ID: CCV

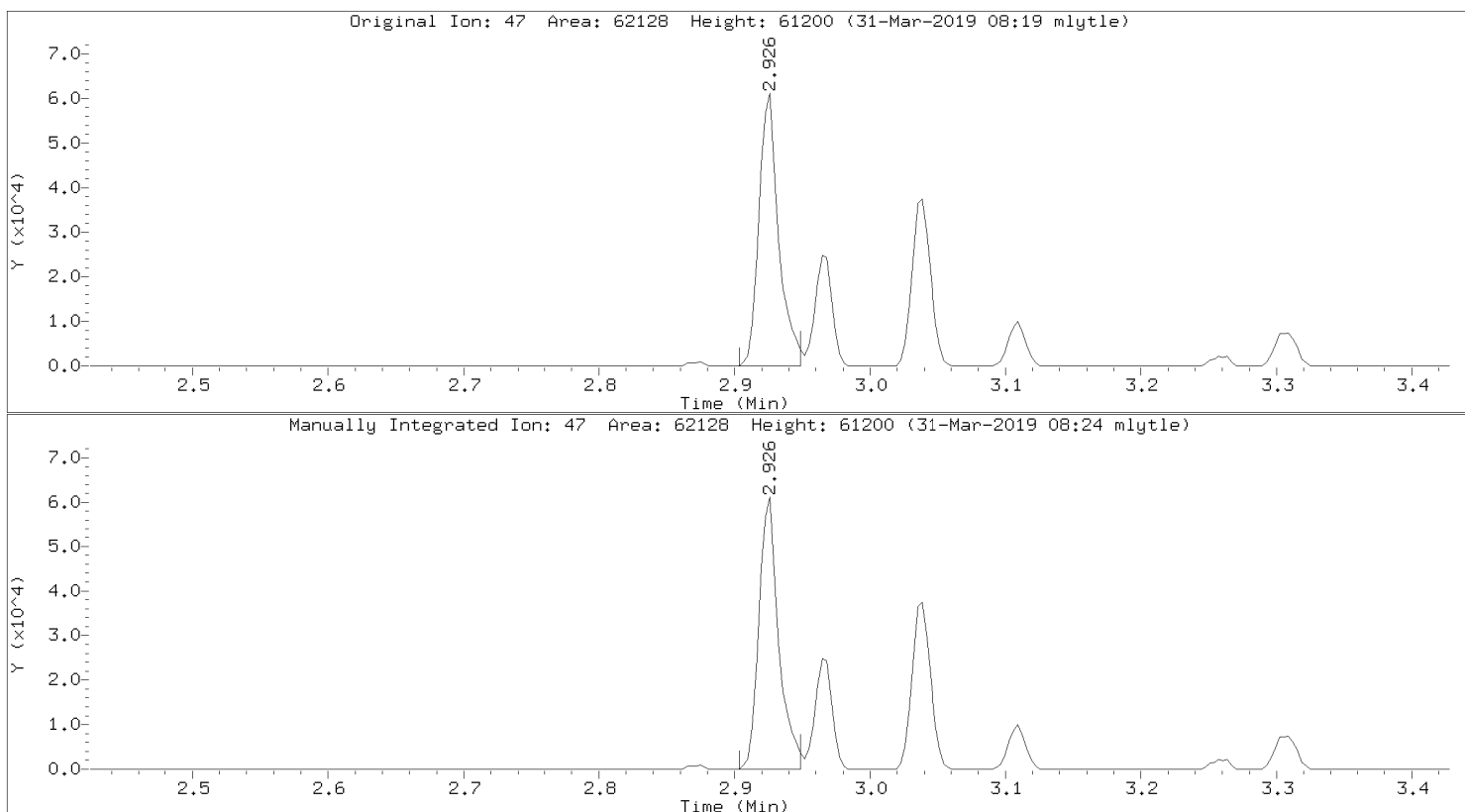


Data File: \\192.168.10.12\chem\10airH.i\033119.b\09002.D
Injection Date: 31-MAR-2019 07:42
Instrument: 10airH.i
Lab Sample ID: CCV

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6



Data File: \\192.168.10.12\chem\10airH.i\033119.b\09002.D
Injection Date: 31-MAR-2019 07:42
Instrument: 10airH.i
Lab Sample ID: CCV



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\033019.b\08914_33312.D
 Lab Smp Id: 3226386
 Inj Date : 30-MAR-2019 12:55
 Operator : MJL Inst ID: 10airI.i
 Smp Info :
 Misc Info : 33312
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Meth Date : 30-Mar-2019 11:29 10airI.i Quant Type: ISTD
 Cal Date : 30-MAR-2019 10:33 Cal File: 08909.D
 Als bottle: 14 QC Sample: BLANK
 Dil Factor: 0.50000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	0.500	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 1,1-Difluoroethane	65							
2 Chlorodifluoromethane	67							
3 Propylene	41							
4 Dichlorodifluoromethane	85							
5 Dichlorotetrafluoroethane	85							
6 Chloromethane	50		3.147	3.147	(0.559)	650	0.01396	0.00698 (aM)
7 Vinyl chloride	62							
8 1,3-Butadiene	54							
9 Bromomethane	94							
10 Chloroethane	64							
11 Ethanol	45							
12 Vinyl Bromide	106							
13 Isopentane	43							
14 Freon 123	83							
15 Acrolein	56							
16 Trichlorofluoromethane	101							
17 Acetone	43		3.659	3.653	(0.650)	7010	0.07153	0.0358 (M)
18 Isopropyl Alcohol	45							
19 Tert Butyl Alcohol (TBA)	59							
20 Acrylonitrile	53							
21 1,1-Dichloroethene	61							
22 Methyl Acetate	43							
23 Freon 113	101							

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
24 Methylene chloride	49		Compound	Not	Detected.			(D)
25 Allyl Chloride	76		Compound	Not	Detected.			
26 Carbon Disulfide	76		Compound	Not	Detected.			
27 trans-1,2-dichloroethene	96		Compound	Not	Detected.			
28 Methyl Tert Butyl Ether	73		Compound	Not	Detected.			
29 Vinyl Acetate	43		Compound	Not	Detected.			
30 1,1-Dichloroethane	63		Compound	Not	Detected.			
31 Methyl Ethyl Ketone	72		Compound	Not	Detected.			
32 n-Hexane	57		Compound	Not	Detected.			
33 Di-isopropyl Ether	45		Compound	Not	Detected.			
34 Ethyl Acetate	43		Compound	Not	Detected.			
35 cis-1,2-Dichloroethene	96		Compound	Not	Detected.			
36 Ethyl Tert-Butyl Ether	59		Compound	Not	Detected.			
37 Chloroform	83		Compound	Not	Detected.			
38 Tetrahydrofuran	42		Compound	Not	Detected.			
39 1,1,1-Trichloroethane	97		Compound	Not	Detected.			
40 1,2-Dichloroethane	62		Compound	Not	Detected.			
41 Benzene	78		Compound	Not	Detected.			
42 Carbon tetrachloride	117		Compound	Not	Detected.			
43 Cyclohexane	56		Compound	Not	Detected.			
44 Tert Amyl Methyl Ether	73		Compound	Not	Detected.			(D)
* 45 1,4-Difluorobenzene	114		5.628	5.628	(1.000)	900731	10.0000	
46 2,2,4-Trimethylpentane	57		Compound	Not	Detected.			
47 Heptane	43		Compound	Not	Detected.			
48 1,2-Dichloropropane	63		Compound	Not	Detected.			
49 Trichloroethene	130		Compound	Not	Detected.			
50 Methyl methacrylate	69		Compound	Not	Detected.			
51 1,4-Dioxane	88		Compound	Not	Detected.			
52 Bromodichloromethane	83		Compound	Not	Detected.			
53 Methylcyclohexane	98		Compound	Not	Detected.			
54 Methyl Isobutyl Ketone	43		Compound	Not	Detected.			
55 cis-1,3-Dichloropropene	75		Compound	Not	Detected.			
56 trans-1,3-Dichloropropene	75		Compound	Not	Detected.			
57 Toluene	91		Compound	Not	Detected.			
58 1,1,2-Trichloroethane	97		Compound	Not	Detected.			
59 Methyl Butyl Ketone	43		Compound	Not	Detected.			
60 n-Octane	43		Compound	Not	Detected.			
61 Dibromochloromethane	129		Compound	Not	Detected.			
62 1,2-Dibromoethane	107		Compound	Not	Detected.			
63 Tetrachloroethene	166		Compound	Not	Detected.			
* 64 Chlorobenzene - d5	117		8.683	8.683	(1.000)	748858	10.0000	
65 Chlorobenzene	112		Compound	Not	Detected.			
66 Ethyl Benzene	91		Compound	Not	Detected.			
67 m&p-Xylene	91		Compound	Not	Detected.			
68 n-Nonane	43		Compound	Not	Detected.			
69 Bromoform	173		Compound	Not	Detected.			
70 Styrene	104		Compound	Not	Detected.			
71 o-Xylene	91		Compound	Not	Detected.			
72 1,1,2,2-Tetrachloroethane	83		Compound	Not	Detected.			
73 Isopropylbenzene	105		Compound	Not	Detected.			
74 N-Propylbenzene	91		Compound	Not	Detected.			
75 4-Ethyltoluene	105		Compound	Not	Detected.			
76 1,3,5-Trimethylbenzene	105		Compound	Not	Detected.			
77 n-Decane	57		Compound	Not	Detected.			

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ppbv)	FINAL (ppbv)
78 Tert-Butyl Benzene	119						
79 1,2,4-Trimethylbenzene	105						
80 Sec- Butylbenzene	105						
81 1,3-Dichlorobenzene	146						
82 Benzyl Chloride	91						
83 1,4-Dichlorobenzene	146						
84 p-Isopropyltoluene	119						
85 1,2,3-Trimethylbenzene	105						
86 1,2-Dichlorobenzene	146						
87 N-Butylbenzene	91						
88 1,2-Dibromo-3-Chloropropane	157						
89 1,2,4-Trichlorobenzene	180						
90 Naphthalene	128	13.846	13.846	(1.595)	2149	0.02196	0.0110 (aM)
91 Hexachlorobutadiene	225						

QC Flag Legend

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

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08914_33312.D
 Report Date: 31-Mar-2019 07:35

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 10airI.i
 Lab File ID: 08914_33312.D
 Lab Smp Id: 3226386
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: MJL
 Method File: \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Misc Info: 33312

Calibration Date: 30-MAR-2019
 Calibration Time: 08:43
 Level: LOW
 Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	1148342	689005	1607679	900731	-21.56
64 Chlorobenzene - d	994820	596892	1392748	748858	-24.72

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.63	5.30	5.96	5.63	-0.00
64 Chlorobenzene - d	8.68	8.35	9.01	8.68	-0.00

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

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08914_33312.D

Date : 30-MAR-2019 12:55

Client ID:

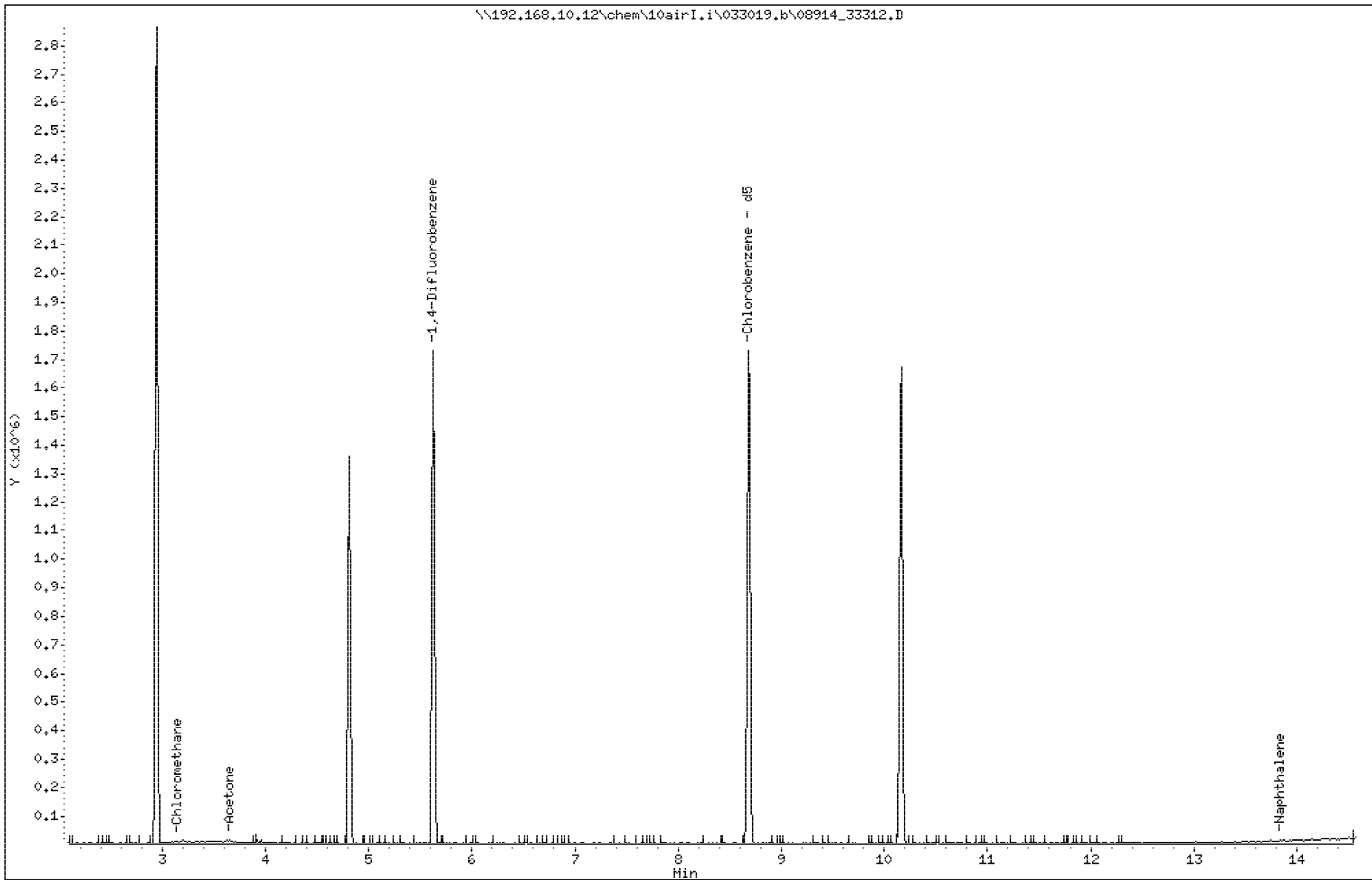
Instrument: 10airI.i

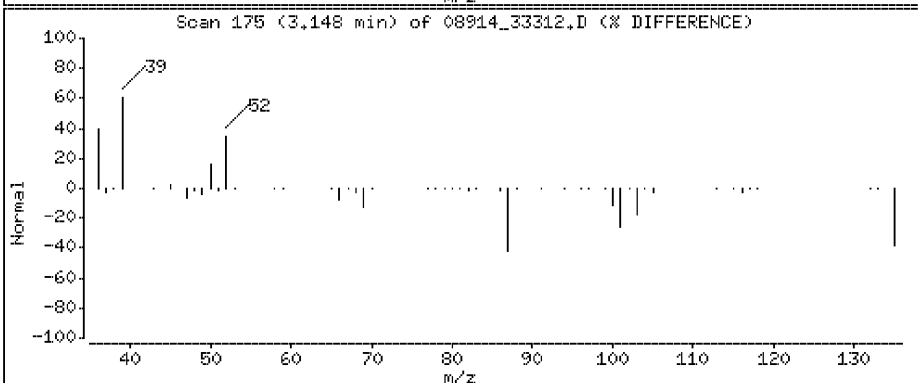
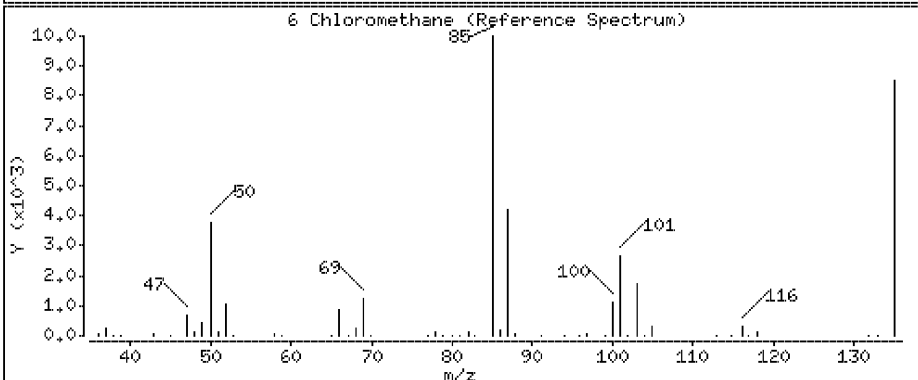
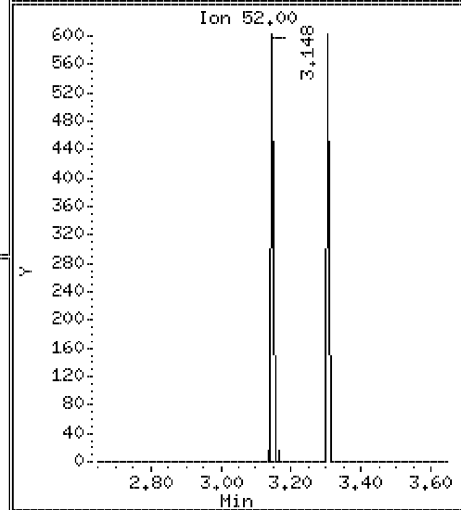
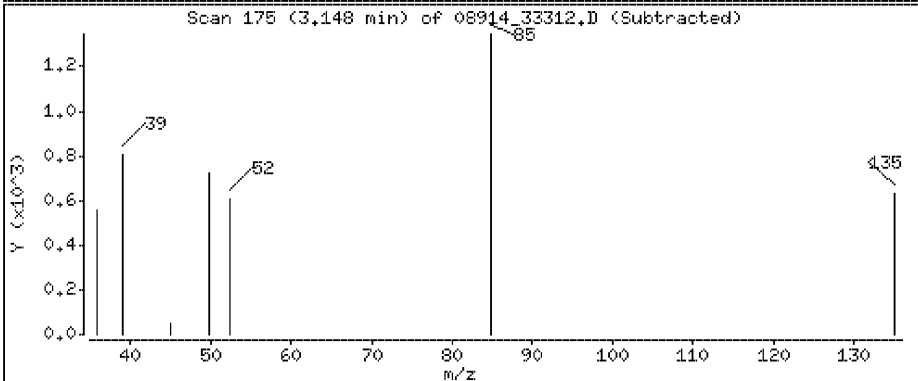
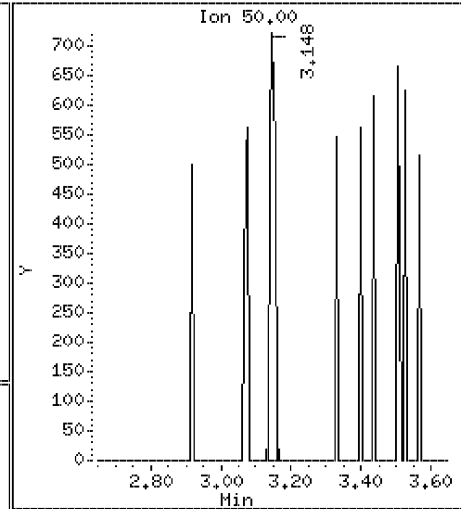
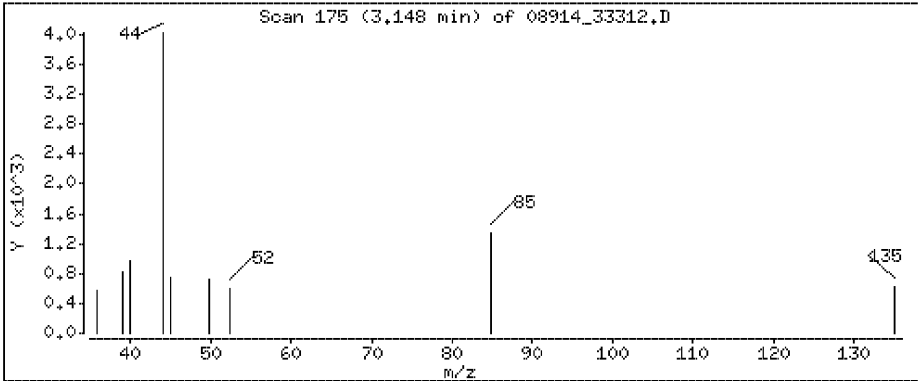
Sample Info:

Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32





Data File: \\192.168.10.12\chem\10airI.i\033019,b\08914_33312.D

Date : 30-MAR-2019 12:55

Client ID:

Instrument: 10airI.i

Sample Info:

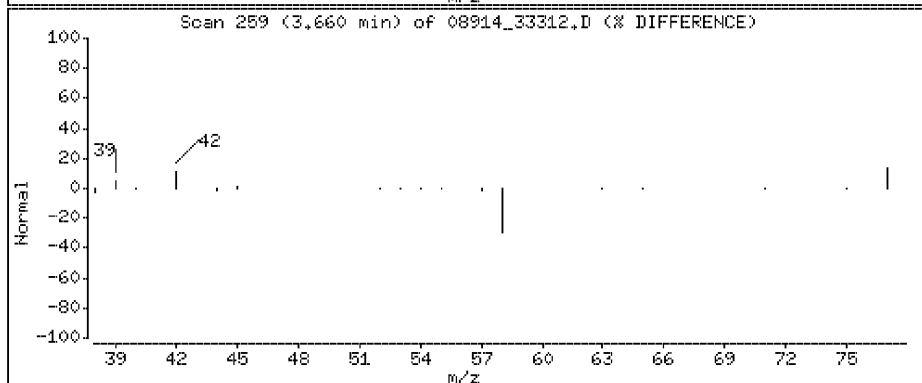
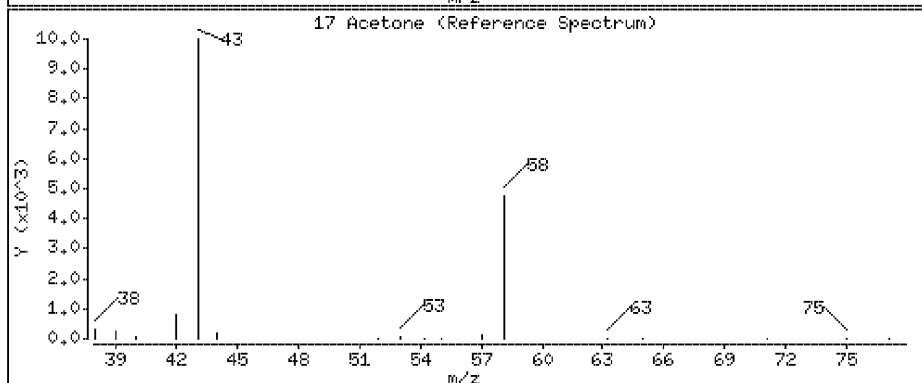
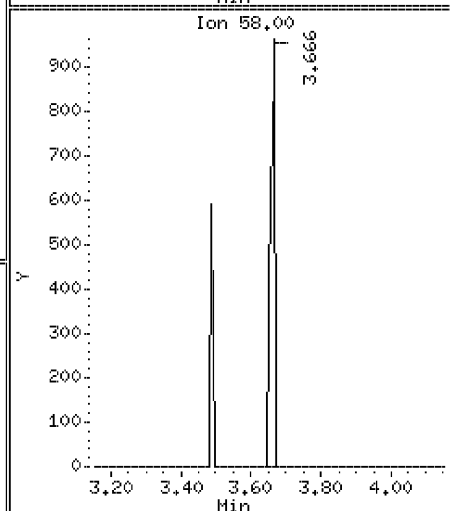
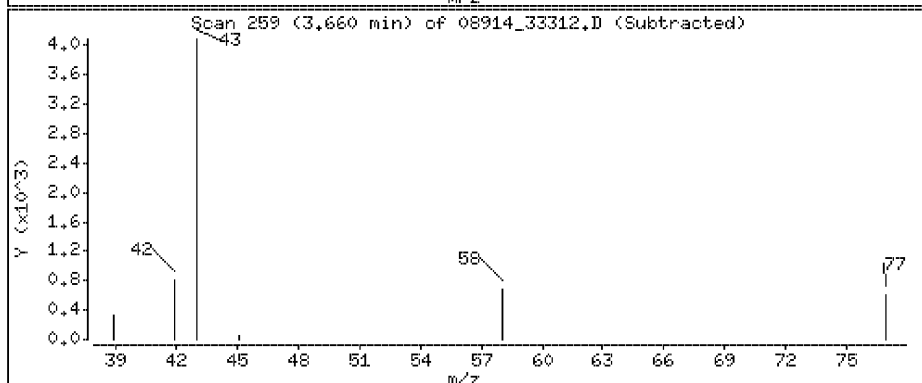
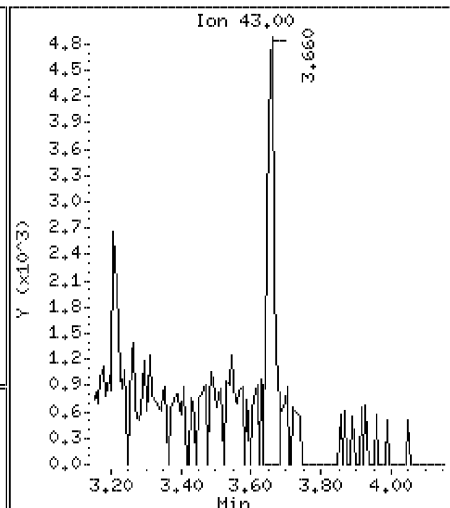
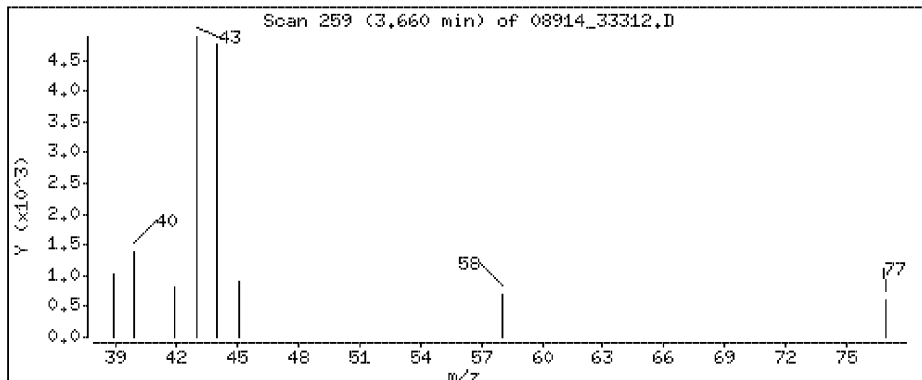
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

17 Acetone

Concentration: 0.0358 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08914_33312.D

Date : 30-MAR-2019 12:55

Client ID:

Instrument: 10airI.i

Sample Info:

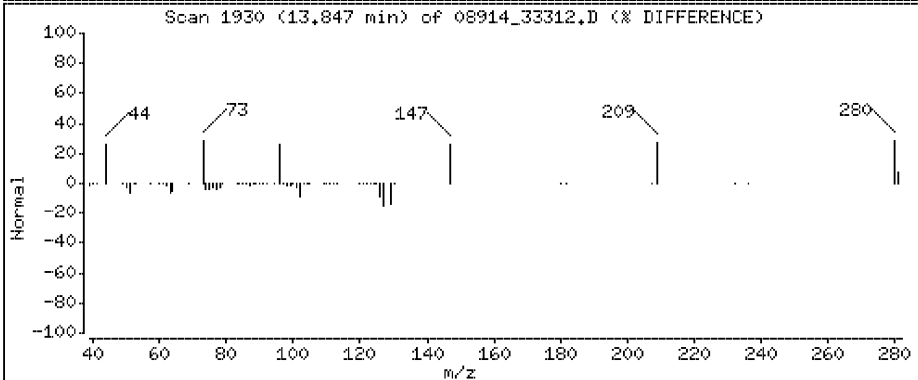
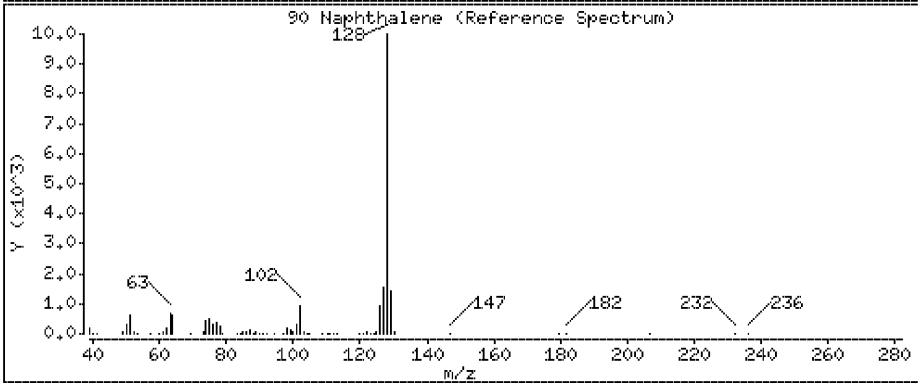
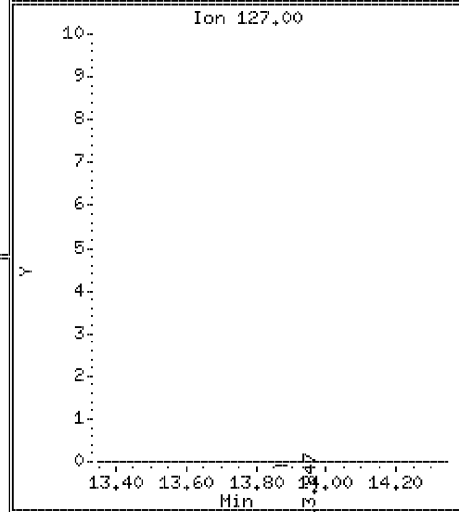
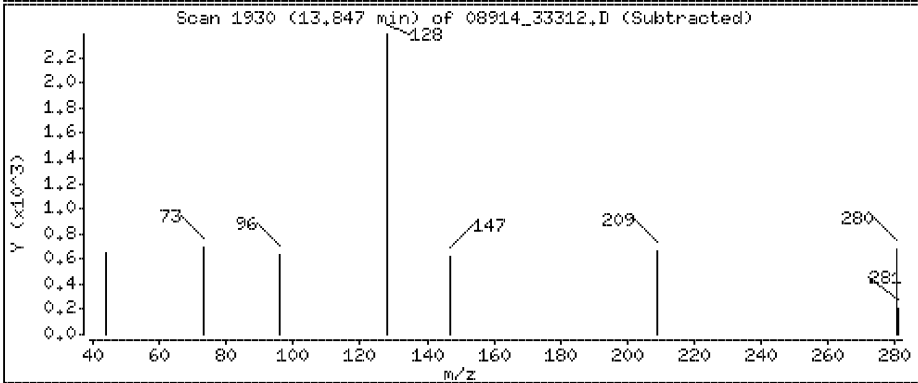
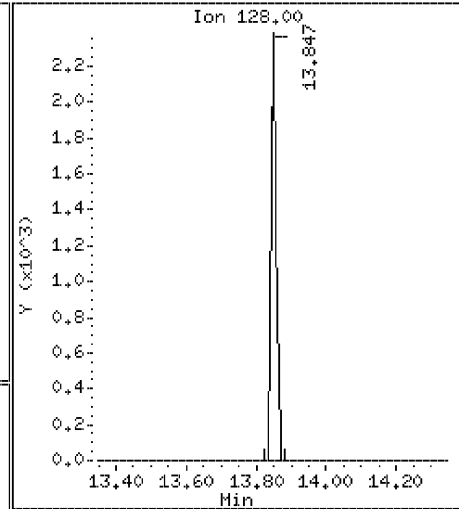
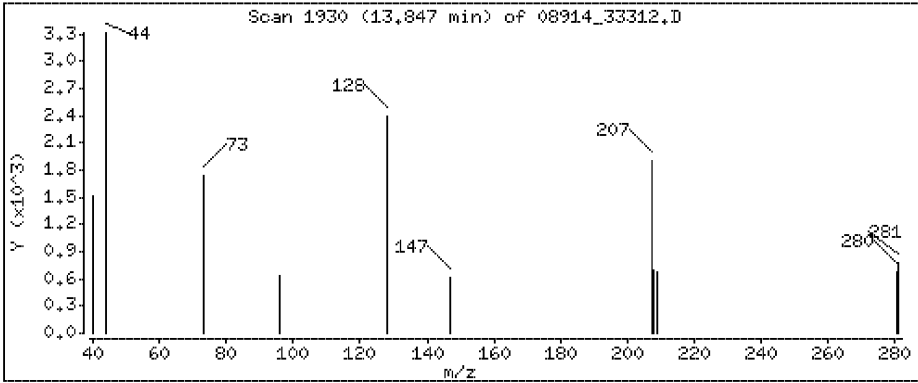
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

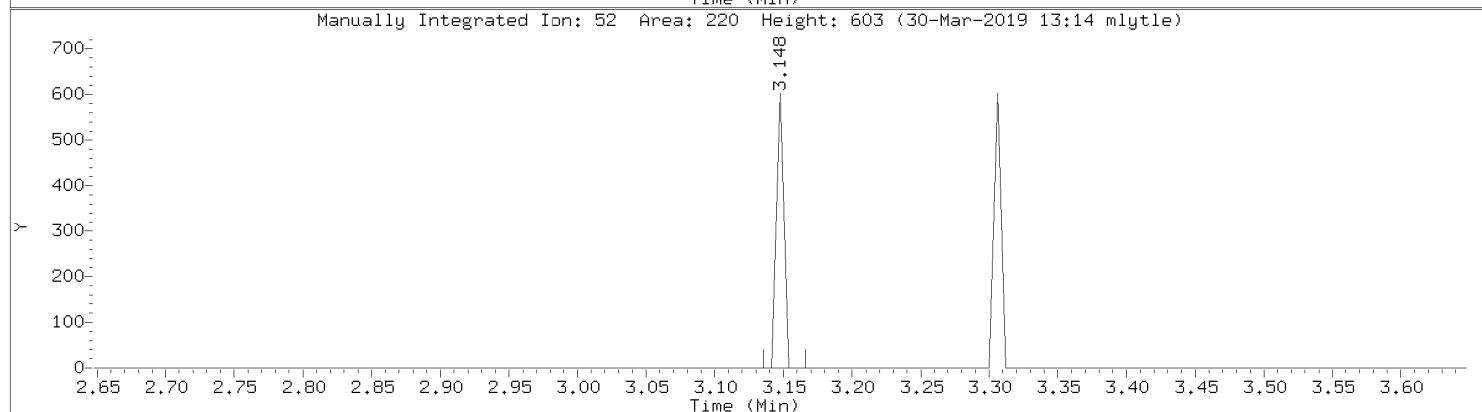
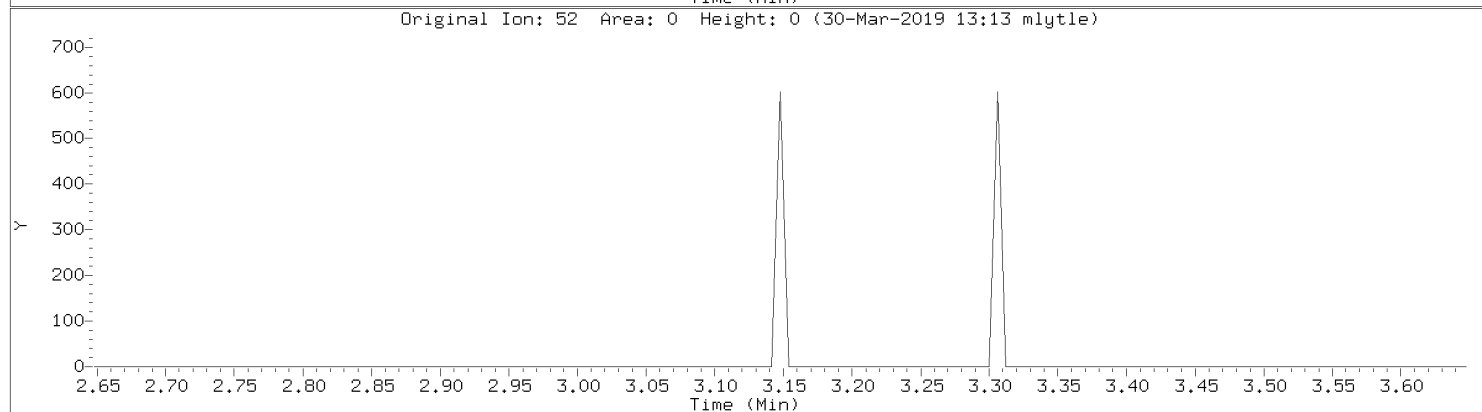
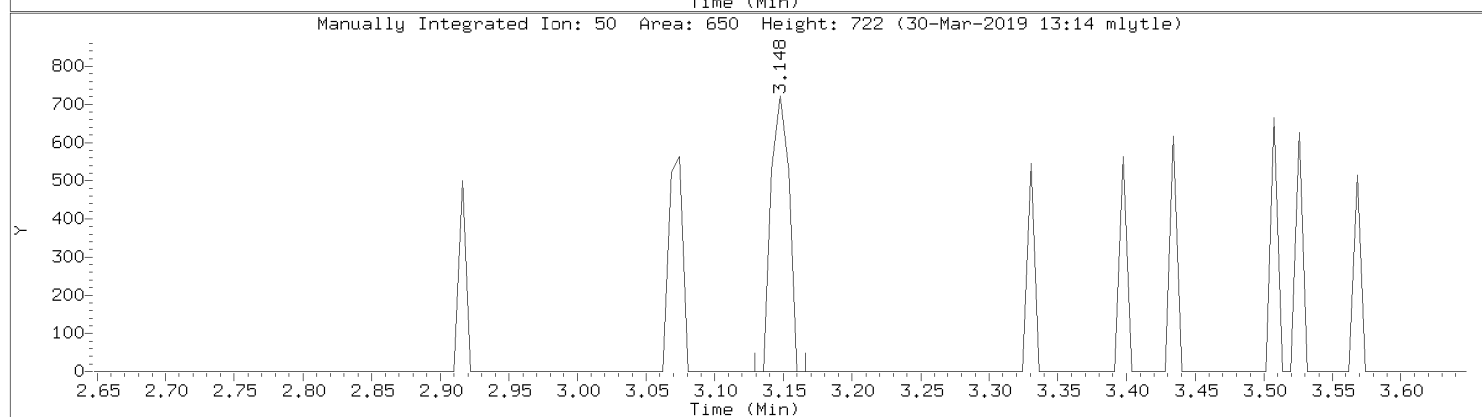
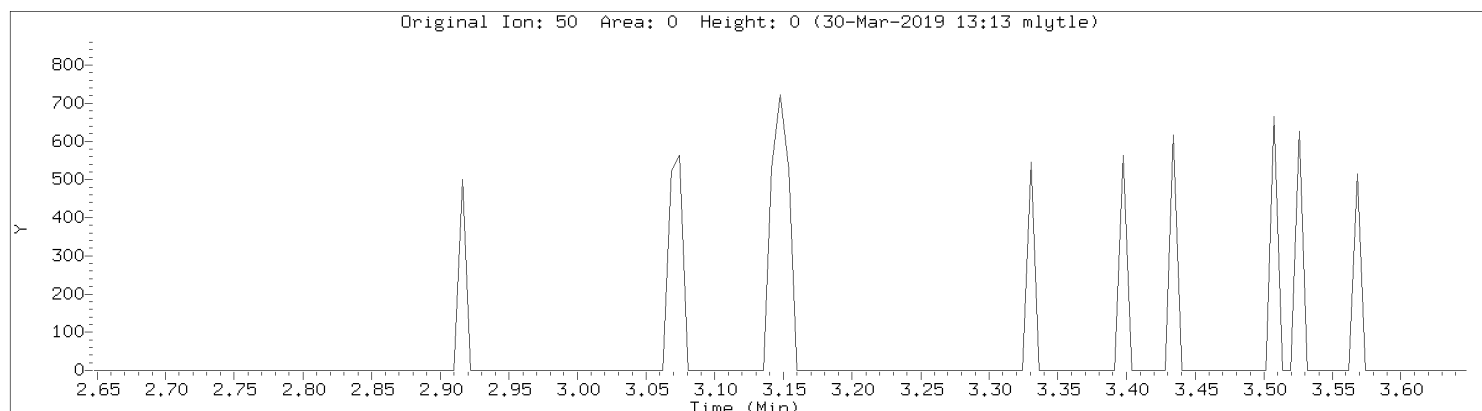
90 Naphthalene

Concentration: 0.0110 ppbv



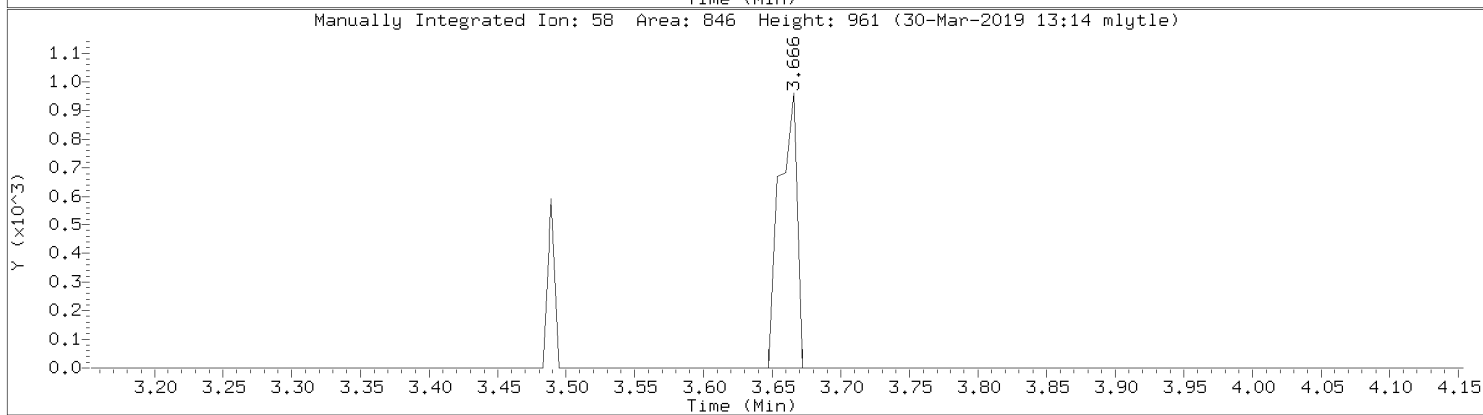
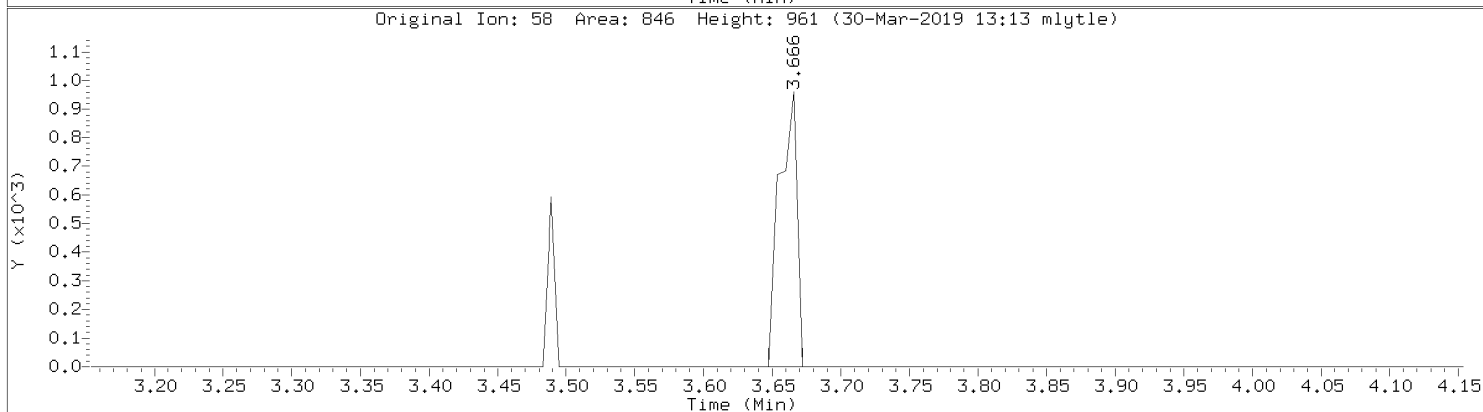
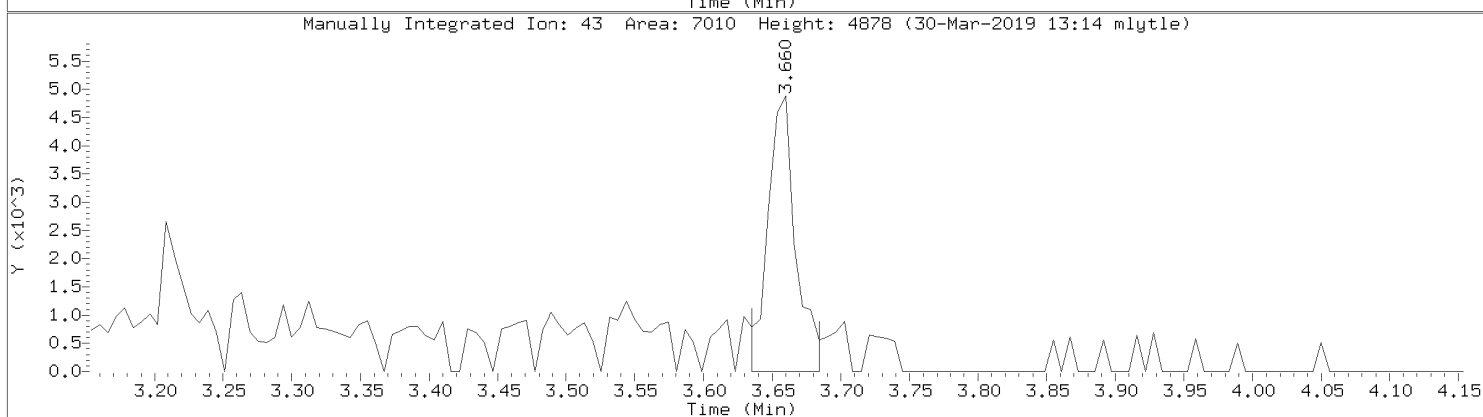
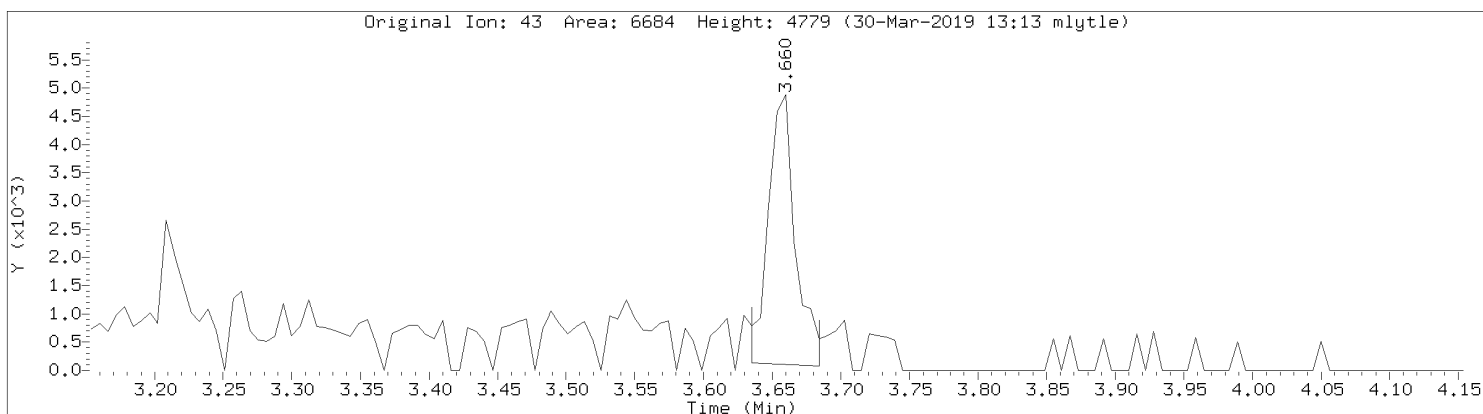
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Injection Date: 30-MAR-2019 12:55
Instrument: 10airI.i
Lab Sample ID: IC

Compound: Chloromethane
CAS Number: 74-87-3



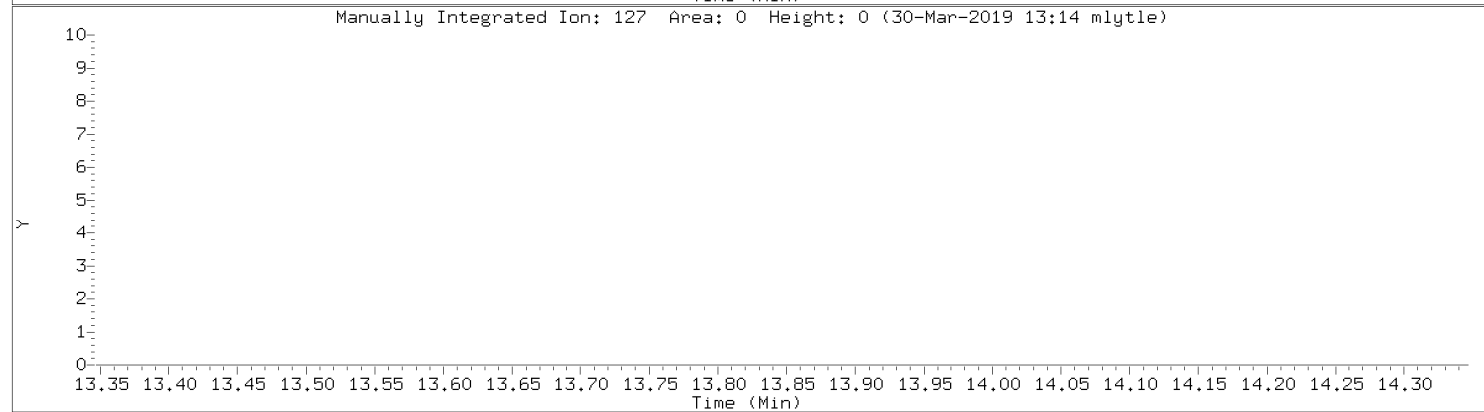
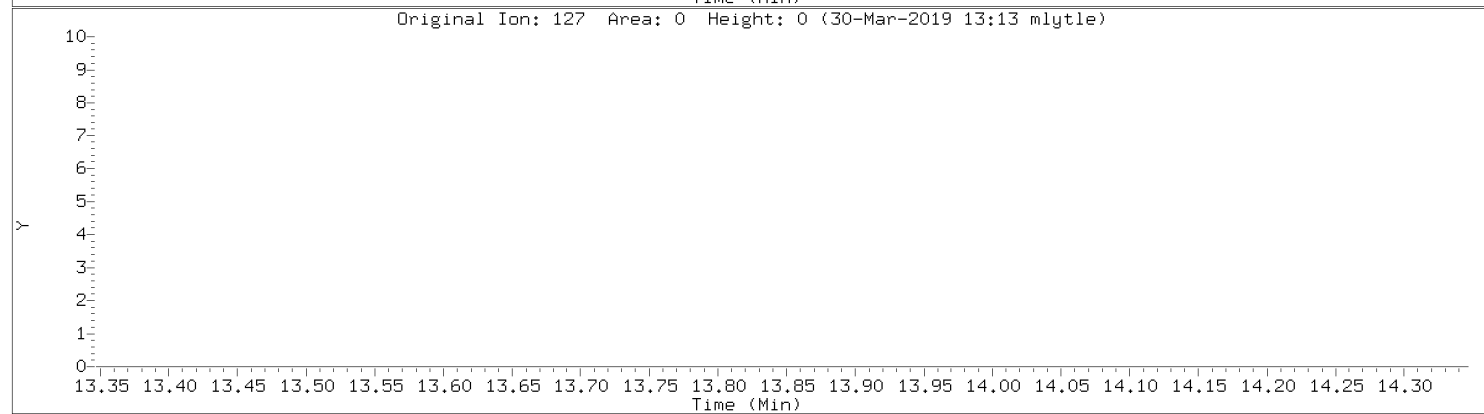
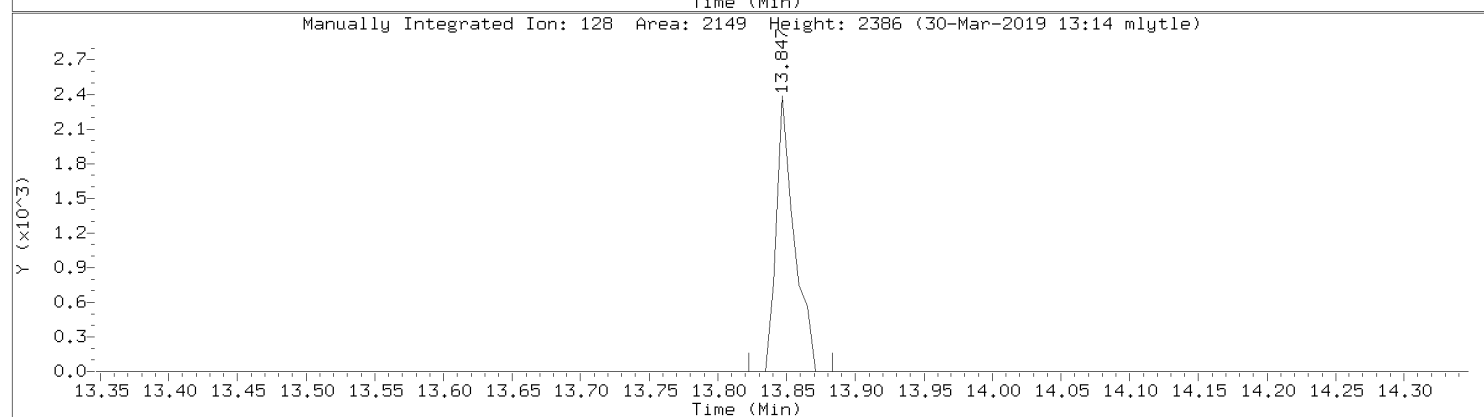
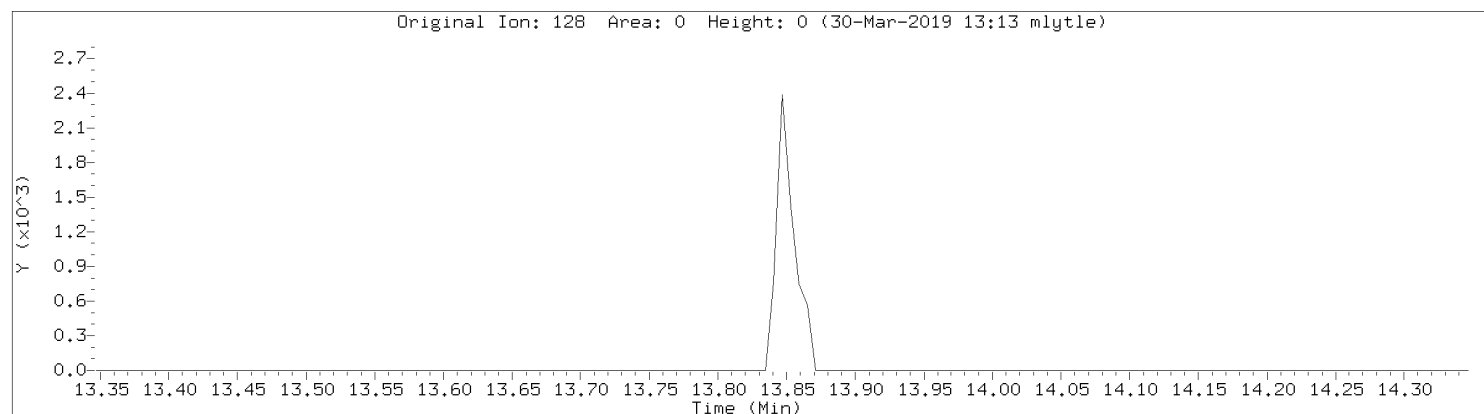
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Injection Date: 30-MAR-2019 12:55
Instrument: 10airI.i
Lab Sample ID: IC

Compound: Acetone
CAS Number: 67-64-1



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08914.D
Injection Date: 30-MAR-2019 12:55
Instrument: 10airI.i
Lab Sample ID: IC

Compound: Naphthalene
CAS Number: 91-20-3



Data File: \\192.168.10.12\chem\10airH.i\033119.b\09006.D
 Report Date: 02-Apr-2019 12:31

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airH.i\033119.b\09006.D
 Lab Smp Id: CERT
 Inj Date : 31-MAR-2019 09:34
 Operator : MJL Inst ID: 10airH.i
 Smp Info :
 Misc Info : 33312
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airH.i\033119.b\TO15_084-19.m
 Meth Date : 01-Apr-2019 10:40 mlytle Quant Type: ISTD
 Cal Date : 25-MAR-2019 10:53 Cal File: 08412.D
 Als bottle: 6 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: RC10A
 Processing Host: 10MNAIRWKS12

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 1,1-Difluoroethane	65							
2 Chlorodifluoromethane	67							
3 Propylene	41							
4 Dichlorodifluoromethane	85							
5 Dichlorotetrafluoroethane	85							
6 Chloromethane	50							
7 Vinyl chloride	62							
8 1,3-Butadiene	54							
9 Bromomethane	94							
10 Chloroethane	64							
11 Ethanol	45							
12 Vinyl Bromide	106							
13 Isopentane	43							
14 Freon 123	83							
15 Trichlorofluoromethane	101							
16 Acrolein	56							
17 Acetone	43		3.514	3.504	(0.647)	3404	0.10802	0.108
18 Isopropyl Alcohol	45							
19 1,1-Dichloroethene	61							
20 Acrylonitrile	53							
21 Tert Butyl Alcohol (TBA)	59							
22 Methyl Acetate	43							
23 Freon 113	101							

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
24 Allyl Chloride	76		Compound	Not	Detected.			
25 Methylene chloride	49		3.806	3.810	(0.701)	1503	0.06971	0.0697
26 Carbon Disulfide	76		Compound	Not	Detected.			
27 Methyl Tert Butyl Ether	73		Compound	Not	Detected.			
28 trans-1,2-dichloroethene	96		Compound	Not	Detected.			
29 Vinyl Acetate	43		Compound	Not	Detected.			
30 1,1-Dichloroethane	63		Compound	Not	Detected.			
31 Methyl Ethyl Ketone	72		Compound	Not	Detected.			
32 Di-isopropyl Ether	45		Compound	Not	Detected.			
33 n-Hexane	57		Compound	Not	Detected.			
34 Ethyl Acetate	43		Compound	Not	Detected.			
35 cis-1,2-Dichloroethene	96		Compound	Not	Detected.			
36 Ethyl Tert-Butyl Ether	59		Compound	Not	Detected.			
37 Chloroform	83		Compound	Not	Detected.			
38 Tetrahydrofuran	42		Compound	Not	Detected.			
39 1,1,1-Trichloroethane	97		Compound	Not	Detected.			
40 1,2-Dichloroethane	62		Compound	Not	Detected.			
41 Benzene	78		Compound	Not	Detected.			
42 Carbon tetrachloride	117		Compound	Not	Detected.			
43 Cyclohexane	56		Compound	Not	Detected.			
44 Tert Amyl Methyl Ether	73		Compound	Not	Detected.			
* 45 1,4-Difluorobenzene	114		5.433	5.433	(1.000)	385191	10.0000	
46 2,2,4-Trimethylpentane	57		Compound	Not	Detected.			
47 Heptane	43		Compound	Not	Detected.			
48 Trichloroethene	130		Compound	Not	Detected.			
49 1,2-Dichloropropane	63		Compound	Not	Detected.			
50 Methyl methacrylate	69		Compound	Not	Detected.			
51 1,4-Dioxane	88		Compound	Not	Detected.			
52 Bromodichloromethane	83		Compound	Not	Detected.			
53 Methylcyclohexane	98		Compound	Not	Detected.			
54 Methyl Isobutyl Ketone	43		Compound	Not	Detected.			
55 cis-1,3-Dichloropropene	75		Compound	Not	Detected.			
56 trans-1,3-Dichloropropene	75		Compound	Not	Detected.			
57 Toluene	91		Compound	Not	Detected.			
58 1,1,2-Trichloroethane	97		Compound	Not	Detected.			
59 Methyl Butyl Ketone	43		Compound	Not	Detected.			
60 n-Octane	43		Compound	Not	Detected.			
61 Dibromochloromethane	129		Compound	Not	Detected.			
62 Tetrachloroethene	166		Compound	Not	Detected.			
63 1,2-Dibromoethane	107		Compound	Not	Detected.			
* 64 Chlorobenzene - d5	117		8.424	8.427	(1.000)	321336	10.0000	
65 Chlorobenzene	112		Compound	Not	Detected.			
66 Ethyl Benzene	91		8.694	8.691	(1.032)	1479	0.02131	0.0213 (aQM)
67 m&p-Xylene	91		8.845	8.874	(1.050)	2704	0.04922	0.0492 (aQM)
68 n-Nonane	43		Compound	Not	Detected.			
69 Styrene	104		Compound	Not	Detected.			
70 o-Xylene	91		Compound	Not	Detected.			
71 Bromoform	173		Compound	Not	Detected.			
72 1,1,2,2-Tetrachloroethane	83		Compound	Not	Detected.			
73 Isopropylbenzene	105		Compound	Not	Detected.			
74 N-Propylbenzene	91		Compound	Not	Detected.			
75 4-Ethyltoluene	105		Compound	Not	Detected.			
76 1,3,5-Trimethylbenzene	105		10.690	10.687	(1.269)	1411	0.02365	0.0236 (aQM)
77 n-Decane	57		Compound	Not	Detected.			

(D)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ppbv)	FINAL (ppbv)
78 Tert-Butyl Benzene	119				Compound Not Detected.		
79 1,2,4-Trimethylbenzene	105	11.179	11.179	(1.327)	2464	0.04048	0.0405(a)
80 Sec- Butylbenzene	105				Compound Not Detected.		
81 1,3-Dichlorobenzene	146				Compound Not Detected.		
82 Benzyl Chloride	91				Compound Not Detected.		
83 1,4-Dichlorobenzene	146				Compound Not Detected.		
84 p-Isopropyltoluene	119				Compound Not Detected.		
85 1,2,3-Trimethylbenzene	105				Compound Not Detected.		
86 1,2-Dichlorobenzene	146				Compound Not Detected.		
87 N-Butylbenzene	91				Compound Not Detected.		
88 1,2-Dibromo-3-Chloropropane	157				Compound Not Detected.		
89 1,2,4-Trichlorobenzene	180				Compound Not Detected.		
90 Naphthalene	128				Compound Not Detected.		
91 Hexachlorobutadiene	225				Compound Not Detected.		

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10AIRH.i\033119.b\09006.D

Date : 31-MAR-2019 09:34

Client ID:

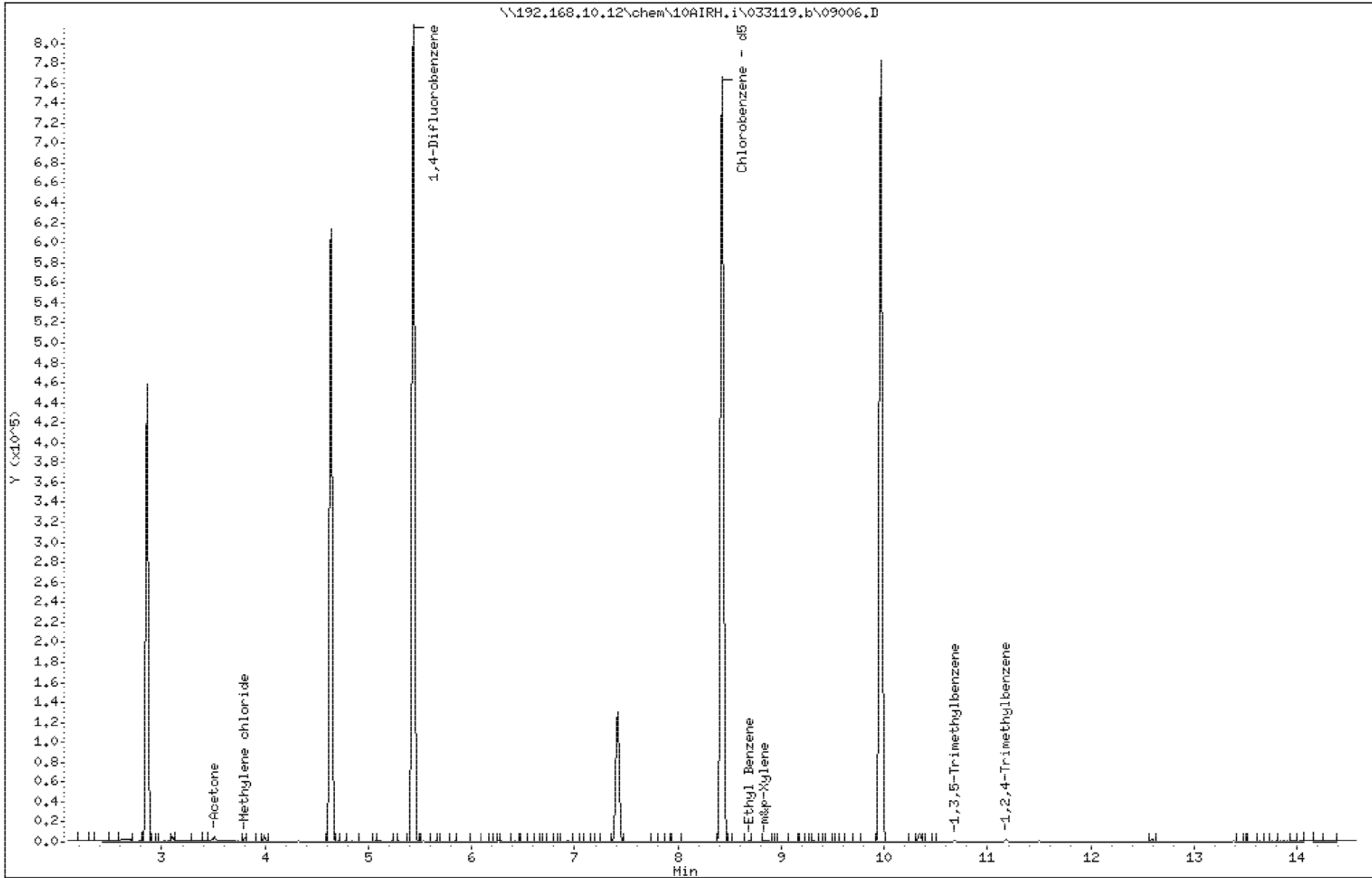
Sample Info:

Column phase: ZB-5MSplus SN338857

Instrument: 10airH.i

Operator: MJL

Column diameter: 0.32



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\033019.b\08910_33312.D
 Lab Smp Id: 3226387
 Inj Date : 30-MAR-2019 11:00
 Operator : MJL Inst ID: 10airI.i
 Smp Info :
 Misc Info : 33312
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Meth Date : 30-Mar-2019 11:29 10airI.i Quant Type: ISTD
 Cal Date : 30-MAR-2019 10:33 Cal File: 08909.D
 Als bottle: 10 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 1,1-Difluoroethane	65		3.019	3.013	(0.536)	272477	10.0613	10.1 (QM)
2 Chlorodifluoromethane	67		3.031	3.025	(0.539)	133992	11.2304	11.2 (QM)
3 Propylene	41		3.043	3.044	(0.541)	462202	9.56923	9.57
4 Dichlorodifluoromethane	85		3.068	3.068	(0.545)	1136271	9.39973	9.40
5 Dichlorotetrafluoroethane	85		3.147	3.147	(0.559)	863208	9.77439	9.77
6 Chloromethane	50		3.147	3.147	(0.559)	520064	9.97096	9.97
7 Vinyl chloride	62		3.220	3.220	(0.572)	349229	10.3421	10.3
8 1,3-Butadiene	54		3.257	3.257	(0.579)	292550	10.1632	10.2 (Q)
9 Bromomethane	94		3.391	3.391	(0.603)	276269	9.71191	9.71
10 Chloroethane	64		3.434	3.434	(0.610)	150213	9.75550	9.76
11 Ethanol	45		3.440	3.440	(0.611)	193162	9.93158	9.93
12 Vinyl Bromide	106		3.549	3.543	(0.631)	275865	10.3423	10.3
13 Isopentane	43		3.556	3.556	(0.632)	505956	10.6746	10.7
14 Freon 123	83		3.562	3.562	(0.633)	680877	10.3927	10.4
15 Acrolein	56		3.616	3.617	(0.643)	148708	10.0669	10.1
16 Trichlorofluoromethane	101		3.635	3.635	(0.646)	1078175	10.4569	10.5
17 Acetone	43		3.647	3.653	(0.648)	1069810	9.74668	9.75
18 Isopropyl Alcohol	45		3.659	3.659	(0.650)	982860	12.4539	12.5 (Q)
19 Tert Butyl Alcohol (TBA)	59		3.854	3.860	(0.685)	1064547	9.77787	9.78
20 Acrylonitrile	53		3.860	3.860	(0.686)	424956	10.1749	10.2
21 1,1-Dichloroethene	61		3.866	3.867	(0.687)	770155	9.78336	9.78
22 Methyl Acetate	43		3.897	3.903	(0.692)	1097989	9.40109	9.40
23 Freon 113	101		3.903	3.903	(0.693)	825574	9.79914	9.80

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)
24 Methylene chloride	49		3.958	3.958	(0.703)	721955	10.8266	10.8	
25 Allyl Chloride	76		3.970	3.964	(0.705)	190922	9.45144	9.45 (Q)	
26 Carbon Disulfide	76		4.080	4.080	(0.725)	1193218	10.4457	10.4	
27 trans-1,2-dichloroethene	96		4.232	4.226	(0.752)	412039	9.81106	9.81 (Q)	
28 Methyl Tert Butyl Ether	73		4.251	4.251	(0.755)	1218190	9.87076	9.87	
29 Vinyl Acetate	43		4.348	4.348	(0.773)	1601126	9.71474	9.71	
30 1,1-Dichloroethane	63		4.360	4.366	(0.775)	830754	9.97913	9.98	
31 Methyl Ethyl Ketone	72		4.507	4.513	(0.801)	212394	8.36782	8.37 (Q)	
32 n-Hexane	57		4.549	4.549	(0.808)	717756	8.94582	8.95 (Q)	
33 Di-isopropyl Ether	45		4.561	4.568	(0.810)	1952430	9.33888	9.34	
34 Ethyl Acetate	43		4.689	4.690	(0.833)	1384439	9.60973	9.61	
35 cis-1,2-Dichloroethene	96		4.689	4.690	(0.833)	416195	9.19225	9.19 (Q)	
36 Ethyl Tert-Butyl Ether	59		4.799	4.799	(0.853)	1575270	9.69447	9.69	
37 Chloroform	83		4.811	4.805	(0.855)	950763	10.5960	10.6 (Q)	
38 Tetrahydrofuran	42		4.958	4.964	(0.881)	680553	10.7171	10.7	
39 1,1,1-Trichloroethane	97		5.214	5.214	(0.926)	1011749	9.88321	9.88	
40 1,2-Dichloroethane	62		5.232	5.232	(0.930)	819809	9.92267	9.92	
41 Benzene	78		5.464	5.458	(0.971)	1258535	9.72147	9.72	
42 Carbon tetrachloride	117		5.476	5.476	(0.973)	933038	9.62020	9.62	
43 Cyclohexane	56		5.482	5.482	(0.974)	777782	9.70823	9.71	
44 Tert Amyl Methyl Ether	73		5.604	5.622	(0.996)	1271413	10.4131	10.4 (Q)	
* 45 1,4-Difluorobenzene	114		5.628	5.628	(1.000)	1008782	10.0000		
46 2,2,4-Trimethylpentane	57		5.775	5.769	(1.026)	2312087	9.52751	9.53	
47 Heptane	43		5.909	5.909	(1.050)	1055447	9.28745	9.29	
48 1,2-Dichloropropane	63		5.988	5.988	(1.064)	514672	9.51823	9.52	
49 Trichloroethene	130		6.006	6.006	(1.067)	511696	9.54434	9.54	
50 Methyl methacrylate	69		6.086	6.086	(1.081)	459927	9.34323	9.34	
51 1,4-Dioxane	88		6.092	6.098	(1.082)	282938	10.2718	10.3	
52 Bromodichloromethane	83		6.116	6.110	(1.087)	1024855	10.2286	10.2	
53 Methylcyclohexane	98		6.457	6.458	(1.147)	328044	9.80268	9.80 (Q)	
54 Methyl Isobutyl Ketone	43		6.573	6.579	(1.168)	1442166	10.0540	10.1	
55 cis-1,3-Dichloropropene	75		6.640	6.640	(1.180)	746909	9.25699	9.26	
56 trans-1,3-Dichloropropene	75		7.055	7.055	(1.253)	701852	9.92574	9.93	
57 Toluene	91		7.201	7.195	(1.279)	1392012	9.33071	9.33	
58 1,1,2-Trichloroethane	97		7.207	7.201	(1.281)	496803	9.53725	9.54	
59 Methyl Butyl Ketone	43		7.433	7.439	(0.856)	1347141	9.81611	9.82	
60 n-Octane	43		7.634	7.634	(0.879)	1407546	9.61948	9.62	
61 Dibromochloromethane	129		7.738	7.744	(0.891)	863409	11.8259	11.8	
62 1,2-Dibromoethane	107		7.963	7.963	(0.917)	787002	9.40487	9.40	
63 Tetrachloroethene	166		8.030	8.036	(0.925)	600360	9.54128	9.54	
* 64 Chlorobenzene - d5	117		8.683	8.683	(1.000)	876496	10.0000		
65 Chlorobenzene	112		8.725	8.725	(1.005)	1041302	9.49601	9.50	
66 Ethyl Benzene	91		8.969	8.963	(1.033)	1835942	9.71559	9.72	
67 m&p-Xylene	91		9.109	9.103	(1.049)	1497939	10.4126	10.4	
68 n-Nonane	43		9.481	9.475	(1.092)	1438786	9.85624	9.86	
69 Bromoform	173		9.506	9.506	(1.095)	629990	11.0397	11.0 (Q)	
70 Styrene	104		9.524	9.524	(1.097)	994410	9.88265	9.88	
71 o-Xylene	91		9.591	9.591	(1.105)	1421450	9.63875	9.64	
72 1,1,2,2-Tetrachloroethane	83		9.847	9.847	(1.134)	1013489	9.99827	10.0	
73 Isopropylbenzene	105		10.146	10.146	(1.169)	1891966	9.49142	9.49	
74 N-Propylbenzene	91		10.688	10.688	(1.231)	2340734	9.57037	9.57	
75 4-Ethyltoluene	105		10.853	10.853	(1.250)	1766079	9.66661	9.67	
76 1,3,5-Trimethylbenzene	105		10.938	10.938	(1.260)	1506582	9.55314	9.55	
77 n-Decane	57		11.274	11.274	(2.003)	1177111	9.73092	9.73	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ppbv)	FINAL (ppbv)
78 Tert-Butyl Benzene	119	11.395	11.396	(1.312)	1521165	9.42910	9.43
79 1,2,4-Trimethylbenzene	105	11.408	11.408	(1.314)	1442741	9.22760	9.23
80 Sec- Butylbenzene	105	11.676	11.676	(1.345)	2104733	9.49309	9.49
81 1,3-Dichlorobenzene	146	11.676	11.676	(1.345)	787607	9.33636	9.34
82 Benzyl Chloride	91	11.743	11.743	(1.352)	1110674	11.5932	11.6
83 1,4-Dichlorobenzene	146	11.761	11.767	(1.355)	775581	9.61268	9.61
84 p-Isopropyltoluene	119	11.841	11.847	(1.364)	1674363	9.56993	9.57
85 1,2,3-Trimethylbenzene	105	11.889	11.883	(1.369)	1408506	9.40548	9.41
86 1,2-Dichlorobenzene	146	12.121	12.121	(1.396)	736759	8.94876	8.95
87 N-Butylbenzene	91	12.273	12.273	(1.414)	1668051	9.64172	9.64
88 1,2-Dibromo-3-Chloropropane	157	12.700	12.700	(1.463)	332571	10.9047	10.9(Q)
89 1,2,4-Trichlorobenzene	180	13.736	13.737	(1.582)	450461	9.90494	9.90(Q)
90 Naphthalene	128	13.846	13.846	(1.595)	1083245	9.45883	9.46
91 Hexachlorobutadiene	225	14.047	14.048	(1.618)	479502	8.77714	8.78

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08910_33312.D
Report Date: 31-Mar-2019 07:35

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airI.i
Lab File ID: 08910_33312.D
Lab Smp Id: 3226387
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
Misc Info: 33312

Calibration Date: 30-MAR-2019
Calibration Time: 08:43

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	1148342	689005	1607679	1008782	-12.15
64 Chlorobenzene - d	994820	596892	1392748	876496	-11.89

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.63	5.30	5.96	5.63	-0.00
64 Chlorobenzene - d	8.68	8.35	9.01	8.68	-0.00

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

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08910_33312.D

Date : 30-MAR-2019 11:00

Client ID:

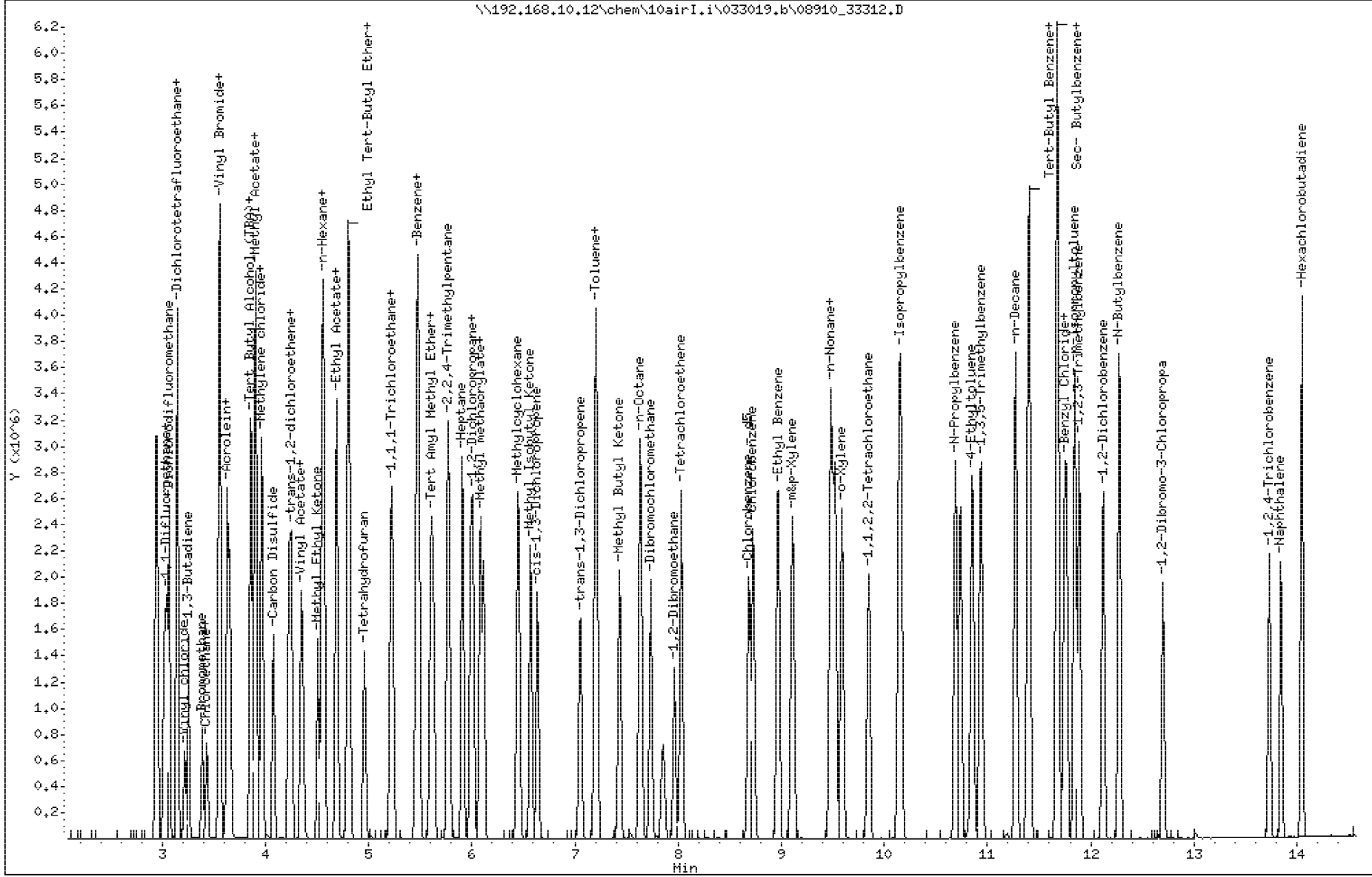
Sample Info:

Column phase: DB-5 SN:USD449717H

Instrument: 10air1.i

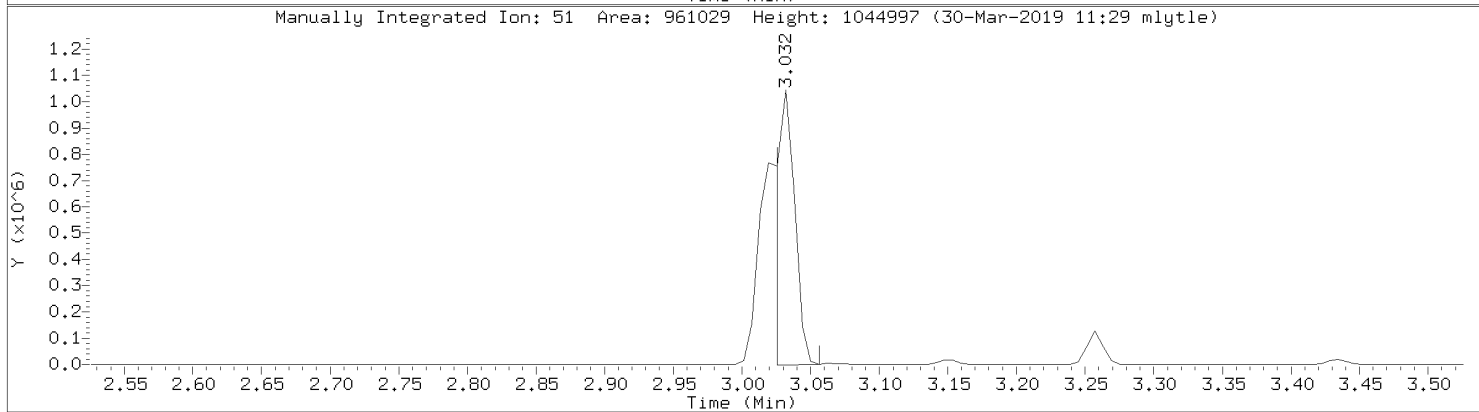
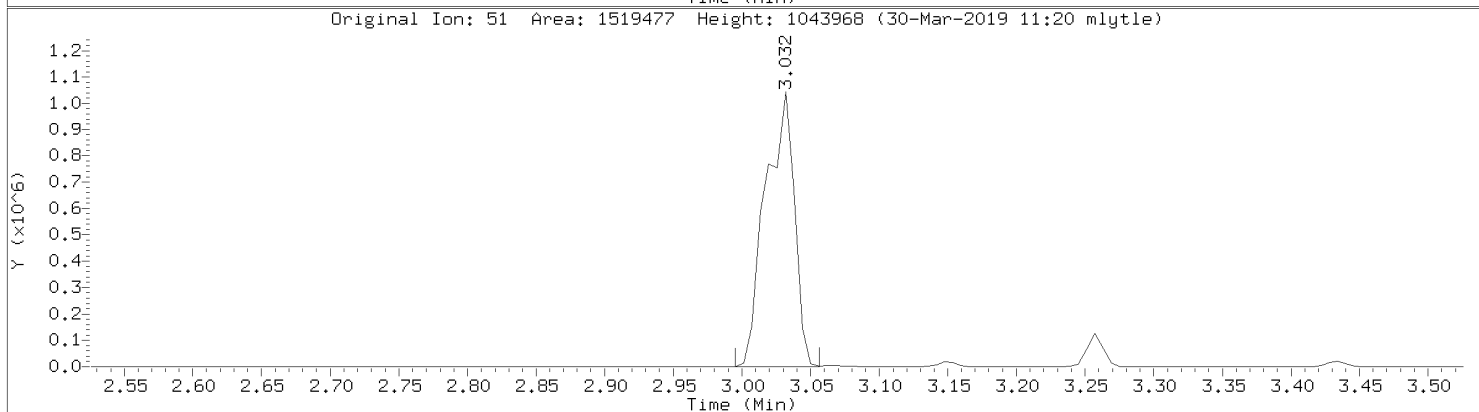
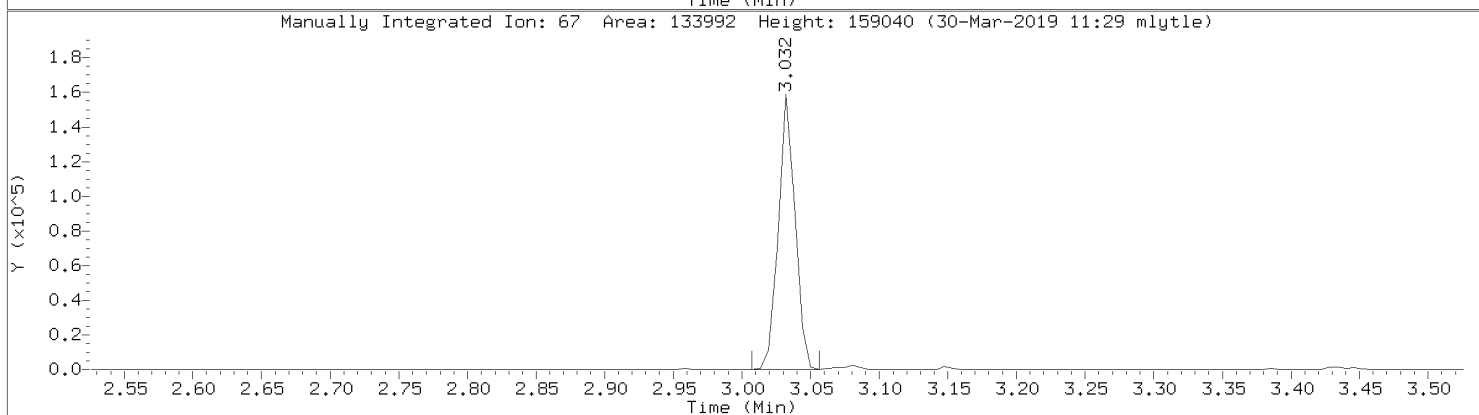
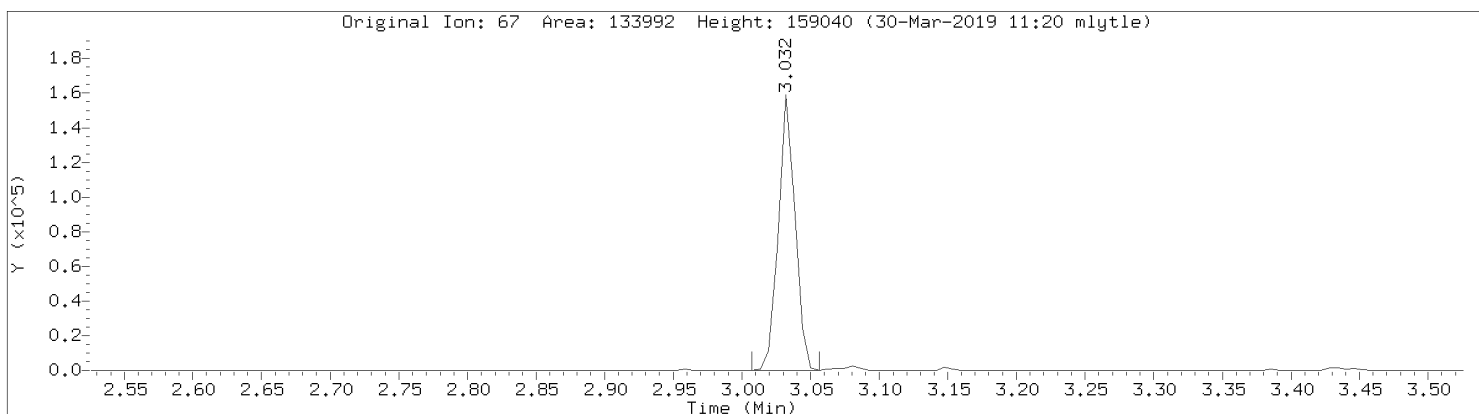
Operator: MJL

Column diameter: 0.32

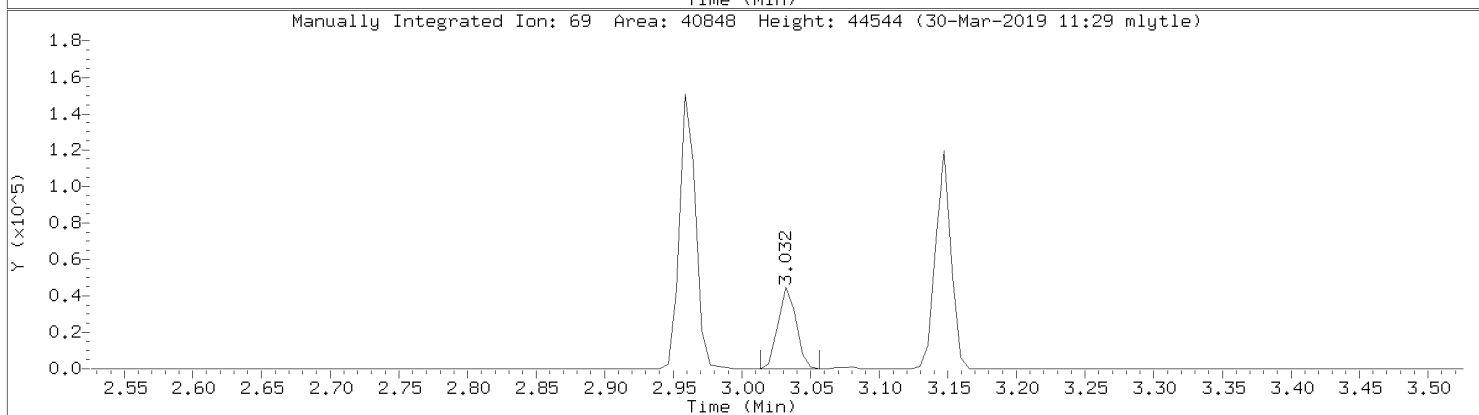
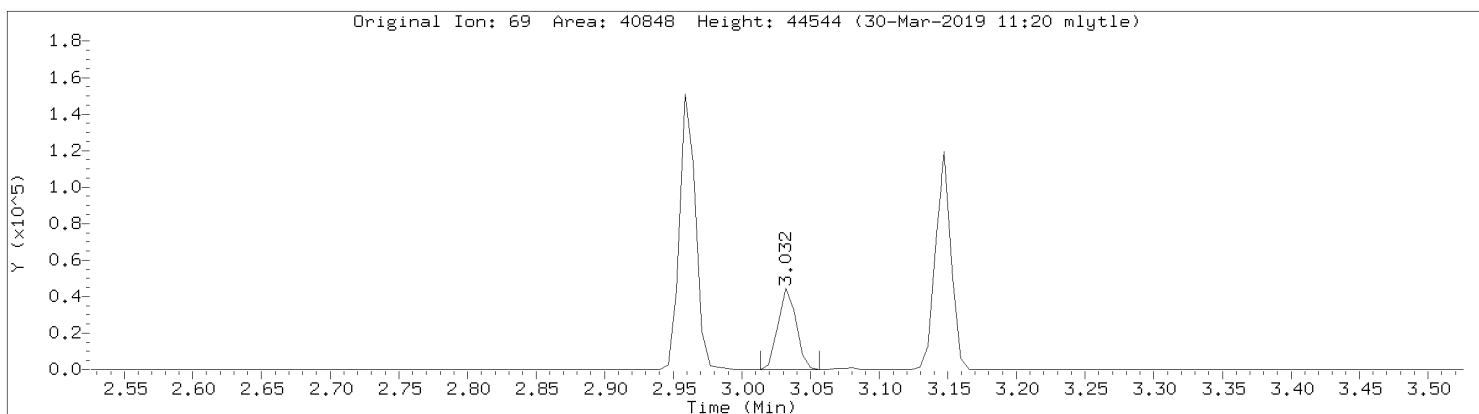


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08910.D
Injection Date: 30-MAR-2019 11:00
Instrument: 10airI.i
Lab Sample ID: ICV

Compound: Chlorodifluoromethane
CAS Number: 76-13-1

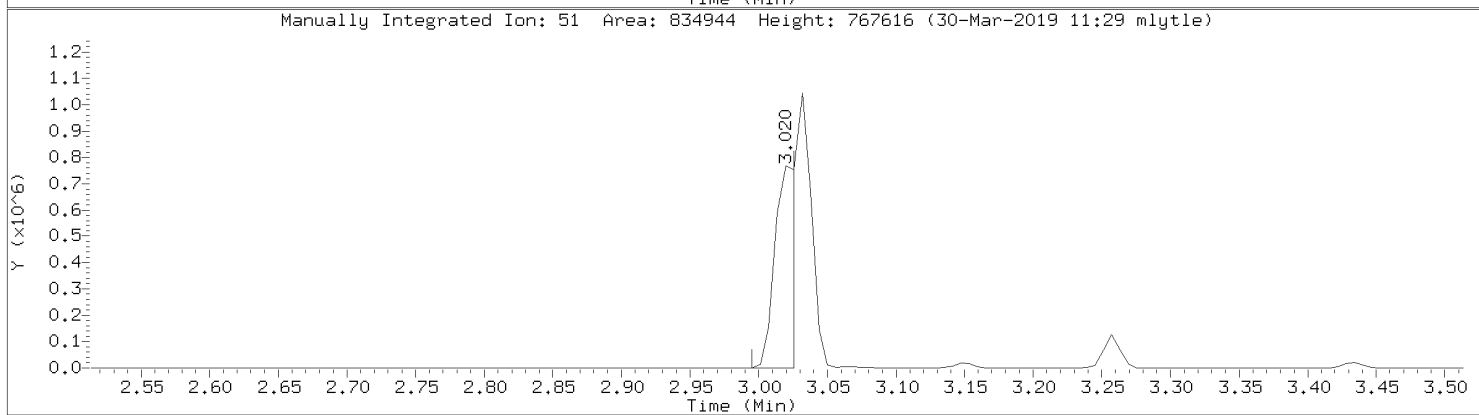
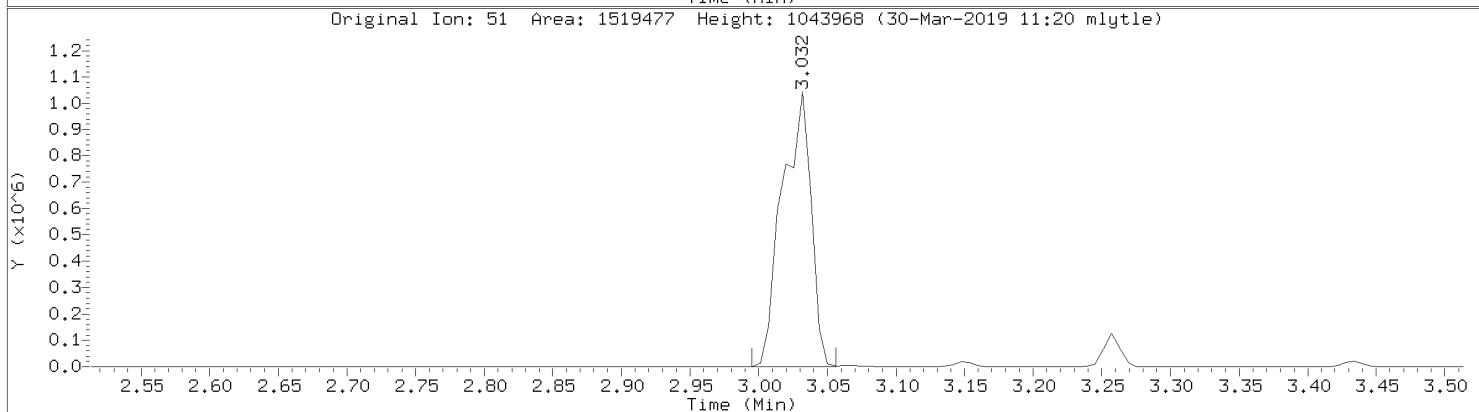
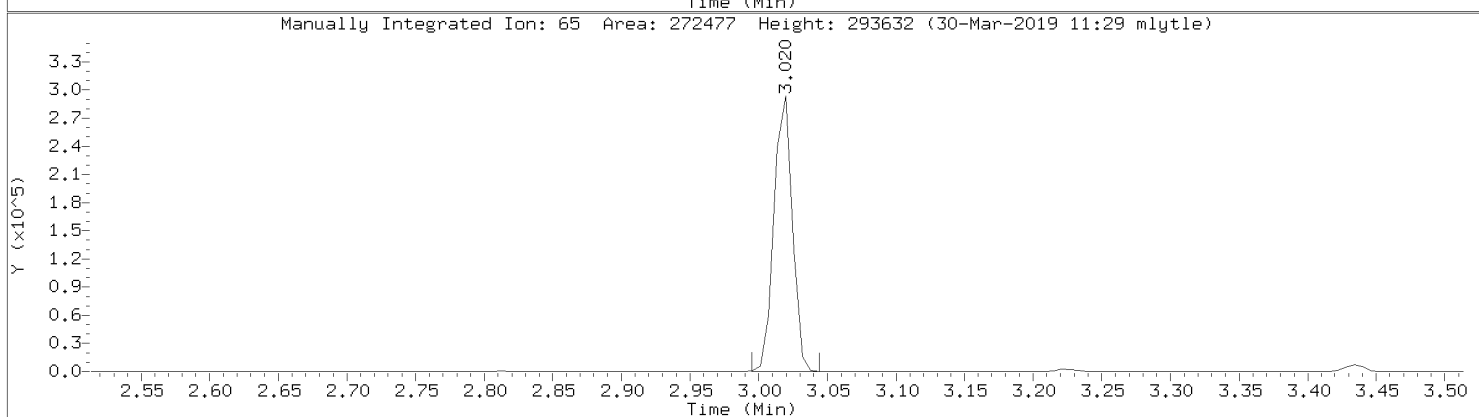
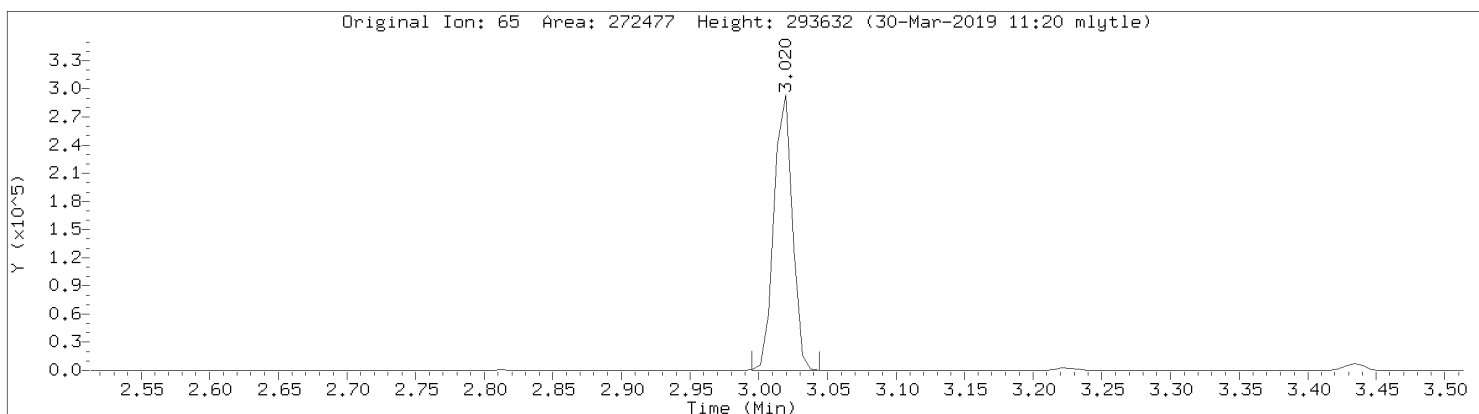


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08910.D
Injection Date: 30-MAR-2019 11:00
Instrument: 10airI.i
Lab Sample ID: ICV

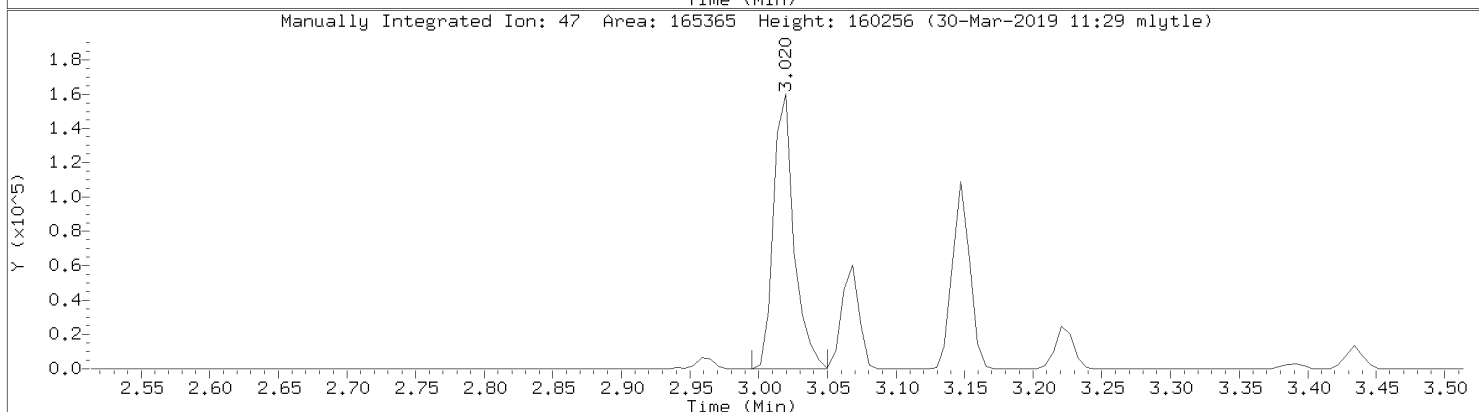
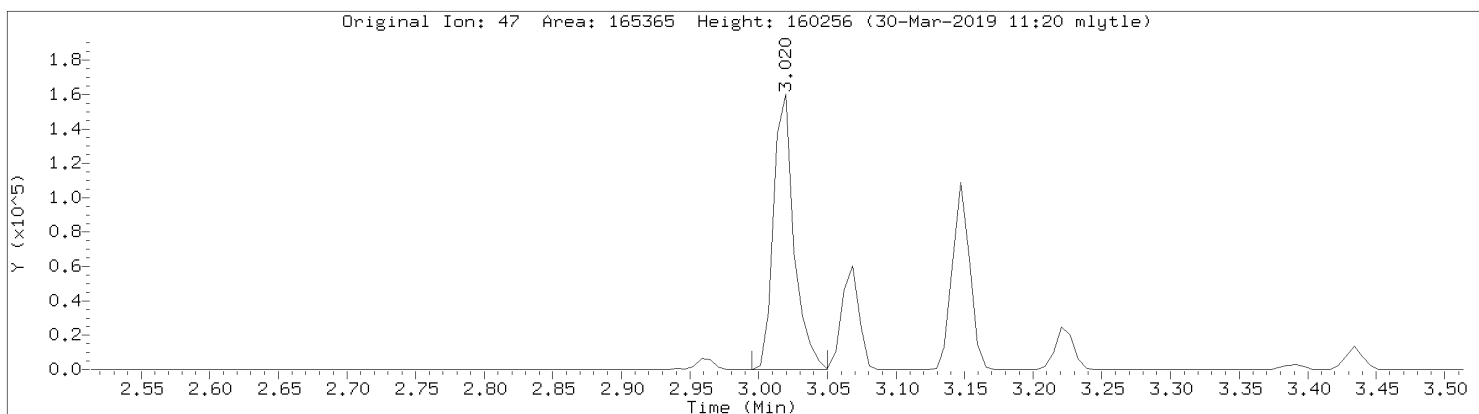


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08910.D
Injection Date: 30-MAR-2019 11:00
Instrument: 10airI.i
Lab Sample ID: ICV

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08910.D
Injection Date: 30-MAR-2019 11:00
Instrument: 10airI.i
Lab Sample ID: ICV



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\033019.b\08915.D
 Lab Smp Id: 10468767001
 Inj Date : 30-MAR-2019 13:24
 Operator : MJL Inst ID: 10airI.i
 Smp Info :
 Misc Info : 33312
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Meth Date : 30-Mar-2019 11:29 10airI.i Quant Type: ISTD
 Cal Date : 30-MAR-2019 10:33 Cal File: 08909.D
 Als bottle: 15
 Dil Factor: 1.49000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.490	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ppbv)	FINAL (ppbv)	
1 1,1-Difluoroethane	65		3.013	3.013	(0.535)	2911	0.13111	0.195(Q)	
2 Chlorodifluoromethane	67		3.031	3.025	(0.539)	1933	0.19761	0.294(Q)	
3 Propylene	41		Compound Not Detected.						(D)
4 Dichlorodifluoromethane	85		3.068	3.068	(0.545)	33350	0.33650	0.501	
5 Dichlorotetrafluoroethane	85		Compound Not Detected.						
6 Chloromethane	50		3.147	3.147	(0.559)	8462	0.19788	0.295	
7 Vinyl chloride	62		Compound Not Detected.						
8 1,3-Butadiene	54		Compound Not Detected.						
9 Bromomethane	94		Compound Not Detected.						
10 Chloroethane	64		Compound Not Detected.						
11 Ethanol	45		3.440	3.440	(0.611)	51441	3.22598	4.81	
12 Vinyl Bromide	106		Compound Not Detected.						
13 Isopentane	43		3.562	3.556	(0.633)	10423	0.26822	0.400	
14 Freon 123	83		Compound Not Detected.						
15 Acrolein	56		Compound Not Detected.						(D)
16 Trichlorofluoromethane	101		3.635	3.635	(0.646)	10846	0.12830	0.191	
17 Acetone	43		3.653	3.653	(0.649)	118171	1.31316	1.96	
18 Isopropyl Alcohol	45		3.665	3.659	(0.651)	9597	0.14832	0.221(Q)	
19 Tert Butyl Alcohol (TBA)	59		Compound Not Detected.						(D)
20 Acrylonitrile	53		Compound Not Detected.						
21 1,1-Dichloroethene	61		Compound Not Detected.						(D)
22 Methyl Acetate	43		Compound Not Detected.						
23 Freon 113	101		3.909	3.903	(0.695)	2642	0.03825	0.0570(a)	

Compounds	QUANT	SIG						CONCENTRATIONS		
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)	
24 Methylene chloride	49		3.958	3.958	(0.703)	31507	0.17582	0.262		
25 Allyl Chloride	76		Compound Not Detected.							
26 Carbon Disulfide	76		4.074	4.080	(0.724)	6833	0.07296	0.109		
27 trans-1,2-dichloroethene	96		Compound Not Detected.							
28 Methyl Tert Butyl Ether	73		Compound Not Detected.							
29 Vinyl Acetate	43		Compound Not Detected.							
30 1,1-Dichloroethane	63		Compound Not Detected.							
31 Methyl Ethyl Ketone	72		4.507	4.513	(0.801)	2219	0.10663	0.159		
32 n-Hexane	57		4.549	4.549	(0.808)	7961	0.12102	0.180(Q)		
33 Di-isopropyl Ether	45		Compound Not Detected.							
34 Ethyl Acetate	43		4.689	4.690	(0.833)	6435	0.05448	0.0812(QM)		
35 cis-1,2-Dichloroethene	96		Compound Not Detected.							
36 Ethyl Tert-Butyl Ether	59		Compound Not Detected.							
37 Chloroform	83		4.811	4.805	(0.855)	28558	0.33816	0.504(Q)		
38 Tetrahydrofuran	42		Compound Not Detected.							(D)
39 1,1,1-Trichloroethane	97		Compound Not Detected.							
40 1,2-Dichloroethane	62		Compound Not Detected.							
41 Benzene	78		5.458	5.458	(0.970)	3688	0.03475	0.0518(aM)		
42 Carbon tetrachloride	117		5.470	5.476	(0.972)	2674	0.03363	0.0501(a)		
43 Cyclohexane	56		5.482	5.482	(0.974)	1386	0.02110	0.0314(aQ)		
44 Tert Amyl Methyl Ether	73		Compound Not Detected.							(D)
* 45 1,4-Difluorobenzene	114		5.628	5.628	(1.000)	827068	10.0000			
46 2,2,4-Trimethylpentane	57		5.769	5.769	(1.025)	2121	0.01066	0.0159(aQ)		
47 Heptane	43		Compound Not Detected.							(D)
48 1,2-Dichloropropane	63		Compound Not Detected.							
49 Trichloroethene	130		Compound Not Detected.							
50 Methyl methacrylate	69		Compound Not Detected.							
51 1,4-Dioxane	88		Compound Not Detected.							
52 Bromodichloromethane	83		6.104	6.110	(1.084)	3428	0.04173	0.0622(a)		
53 Methylcyclohexane	98		Compound Not Detected.							
54 Methyl Isobutyl Ketone	43		Compound Not Detected.							
55 cis-1,3-Dichloropropene	75		Compound Not Detected.							
56 trans-1,3-Dichloropropene	75		Compound Not Detected.							
57 Toluene	91		7.201	7.195	(1.279)	16622	0.13590	0.202		
58 1,1,2-Trichloroethane	97		Compound Not Detected.							
59 Methyl Butyl Ketone	43		7.439	7.439	(0.857)	2391	0.02178	0.0325(a)		
60 n-Octane	43		7.634	7.634	(0.879)	23478	0.20063	0.299		
61 Dibromochloromethane	129		7.732	7.744	(0.890)	1597	0.02735	0.0408(a)		
62 1,2-Dibromoethane	107		Compound Not Detected.							
63 Tetrachloroethene	166		Compound Not Detected.							
* 64 Chlorobenzene - d5	117		8.683	8.683	(1.000)	700979	10.0000			
65 Chlorobenzene	112		Compound Not Detected.							
66 Ethyl Benzene	91		Compound Not Detected.							
67 m&p-Xylene	91		9.103	9.103	(1.048)	7998	0.06952	0.104		
68 n-Nonane	43		9.481	9.475	(1.092)	13441	0.11513	0.172		
69 Bromoform	173		Compound Not Detected.							
70 Styrene	104		9.524	9.524	(1.097)	2140	0.02659	0.0396(a)		
71 o-Xylene	91		9.585	9.591	(1.104)	1433	0.01215	0.0181(a)		
72 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.							
73 Isopropylbenzene	105		Compound Not Detected.							
74 N-Propylbenzene	91		Compound Not Detected.							
75 4-Ethyltoluene	105		Compound Not Detected.							
76 1,3,5-Trimethylbenzene	105		Compound Not Detected.							(D)
77 n-Decane	57		Compound Not Detected.							(D)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ppbv)	FINAL (ppbv)
78 Tert-Butyl Benzene	119	Compound Not Detected.					
79 1,2,4-Trimethylbenzene	105	11.408	11.408	(1.314)	1375	0.01100	0.0164(a)
80 Sec- Butylbenzene	105	Compound Not Detected.					
81 1,3-Dichlorobenzene	146	Compound Not Detected.					
82 Benzyl Chloride	91	Compound Not Detected.					
83 1,4-Dichlorobenzene	146	Compound Not Detected.					
84 p-Isopropyltoluene	119	Compound Not Detected.					(D)
85 1,2,3-Trimethylbenzene	105	Compound Not Detected.					
86 1,2-Dichlorobenzene	146	Compound Not Detected.					
87 N-Butylbenzene	91	Compound Not Detected.					
88 1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
89 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
90 Naphthalene	128	13.858	13.846	(1.596)	6530	0.07130	0.106
91 Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08915.D
Report Date: 31-Mar-2019 13:50

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airI.i
Lab File ID: 08915.D
Lab Smp Id: 10468767001
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
Misc Info: 33312

Calibration Date: 30-MAR-2019
Calibration Time: 08:43

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	1148342	689005	1607679	827068	-27.98
64 Chlorobenzene - d	994820	596892	1392748	700979	-29.54

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.63	5.30	5.96	5.63	-0.00
64 Chlorobenzene - d	8.68	8.35	9.01	8.68	-0.00

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

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08915.D

Date : 30-MAR-2019 13:24

Client ID:

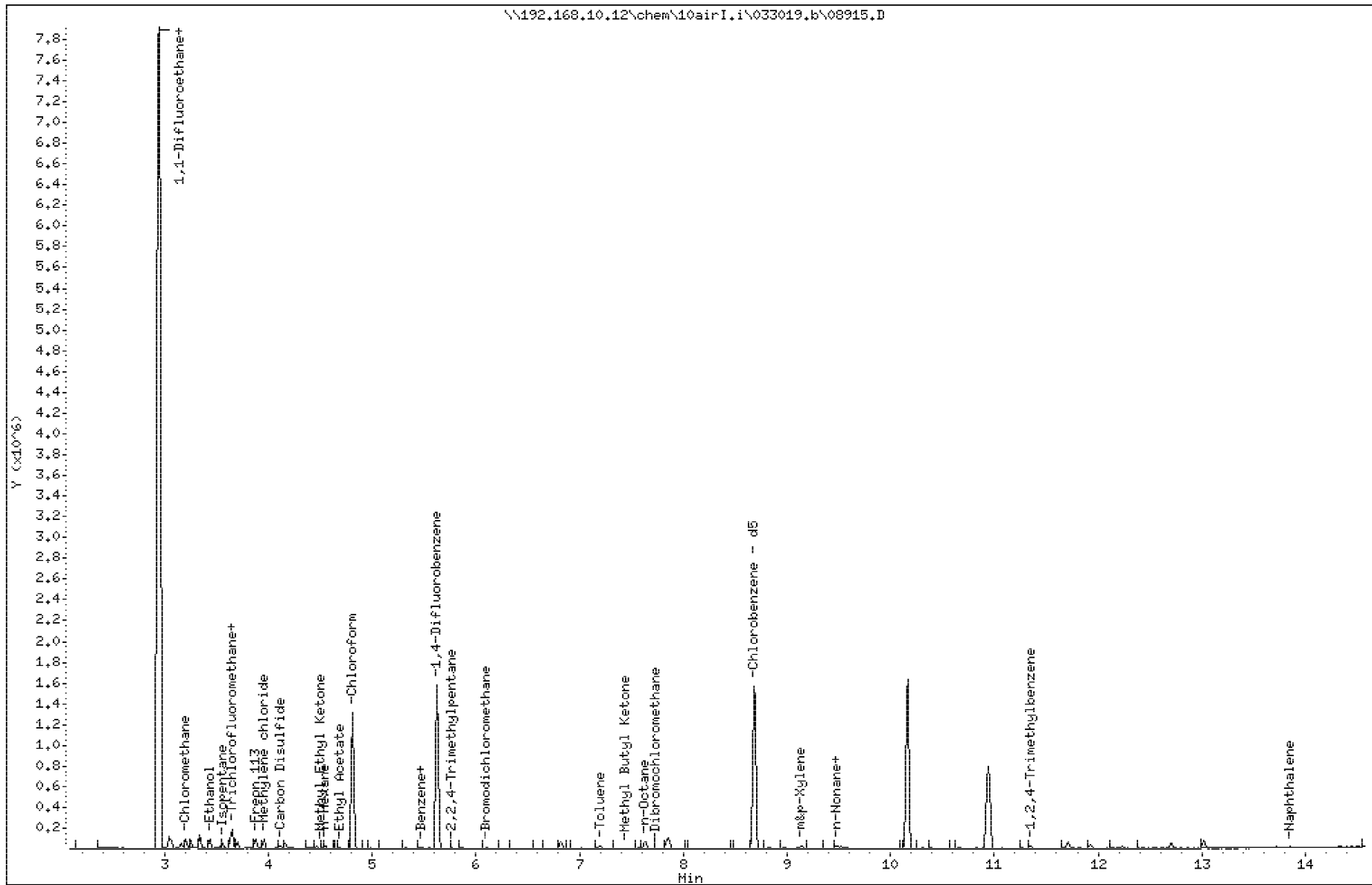
Instrument: 10airI.i

Sample Info:

Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08915.D

Date : 30-MAR-2019 13:24

Client ID:

Instrument: 10airI.i

Sample Info:

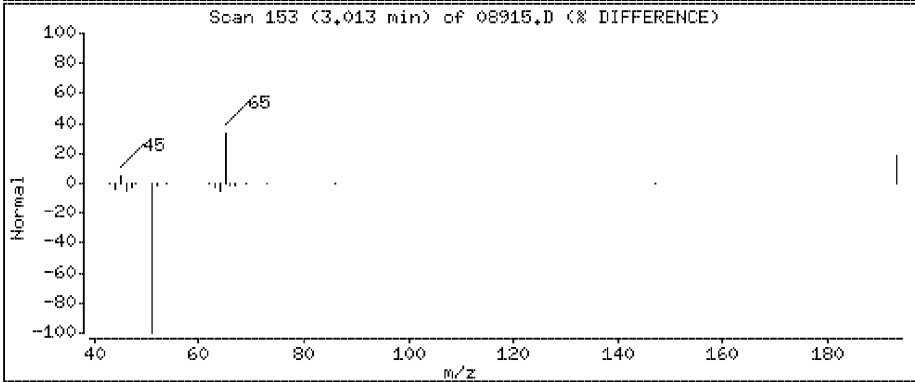
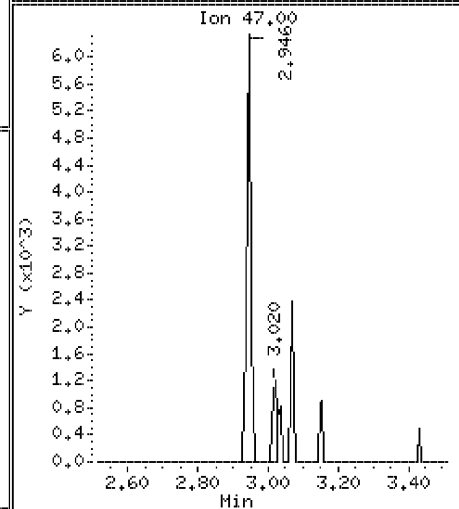
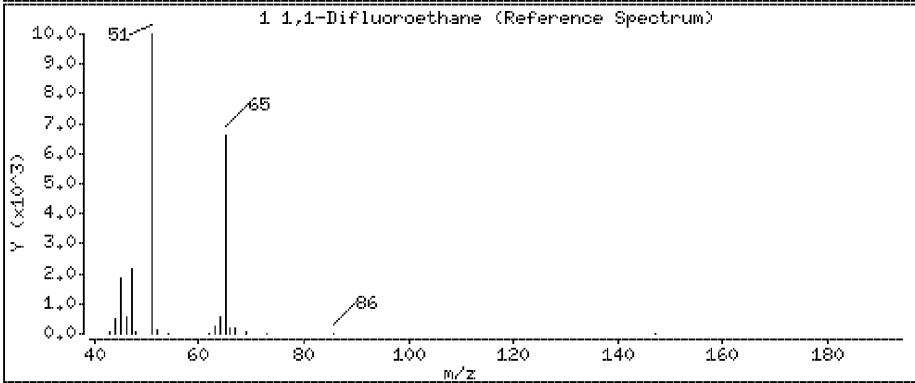
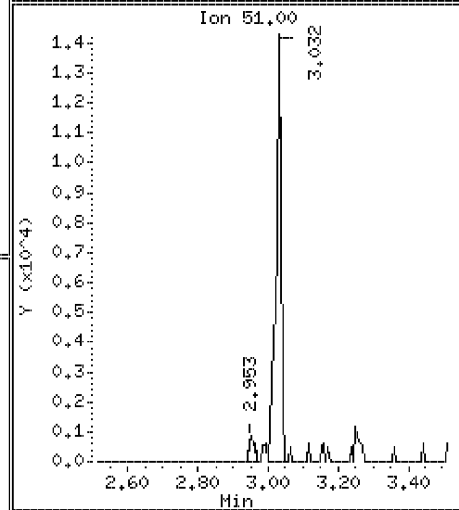
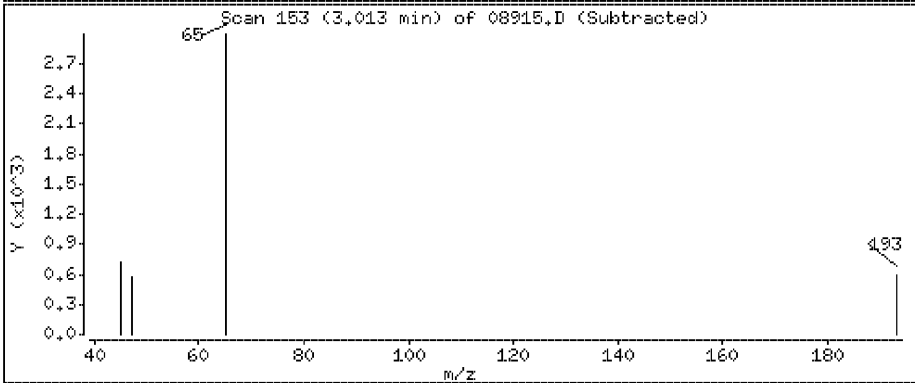
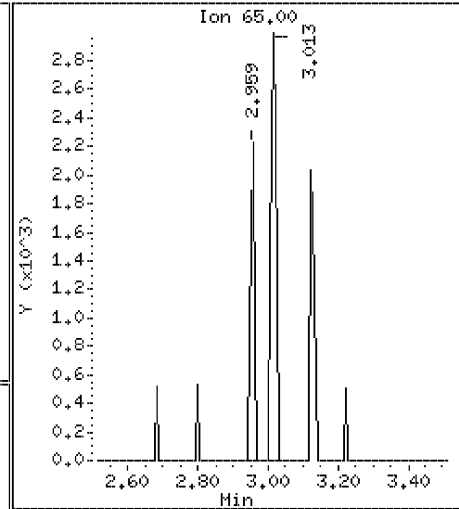
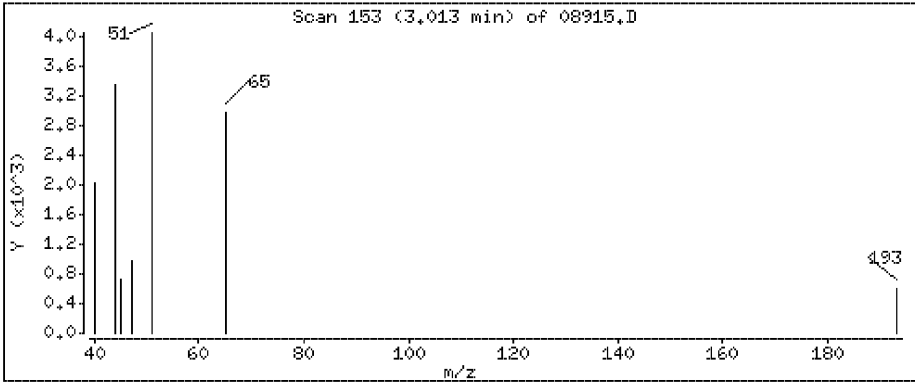
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

1,1,1-Difluoroethane

Concentration: 0,195 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08915.D

Date : 30-MAR-2019 13:24

Client ID:

Instrument: 10airI.i

Sample Info:

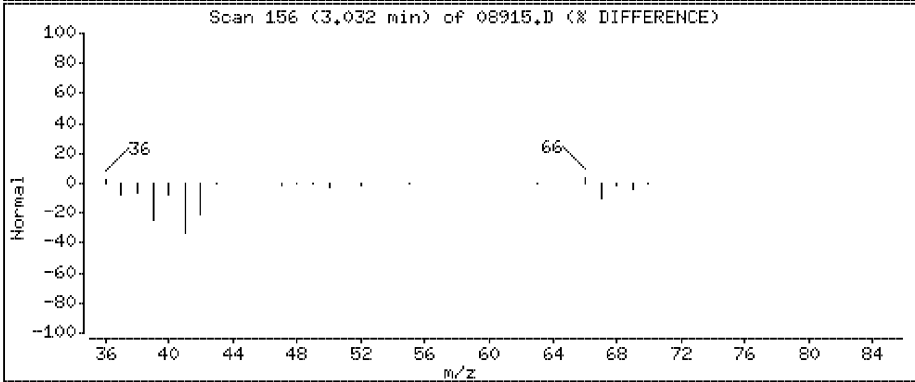
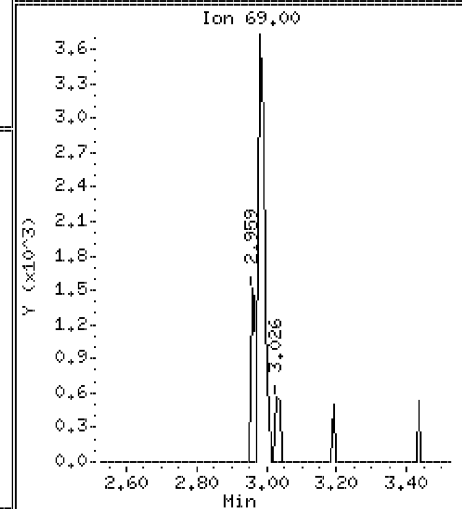
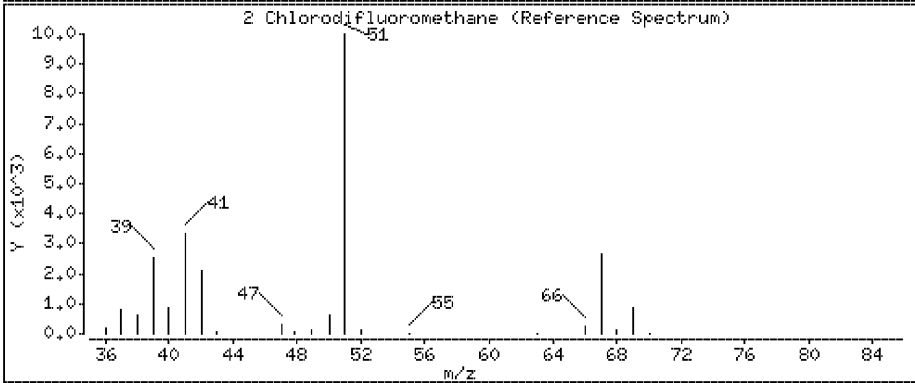
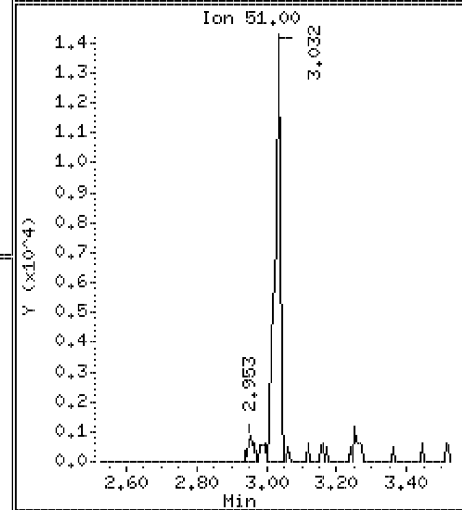
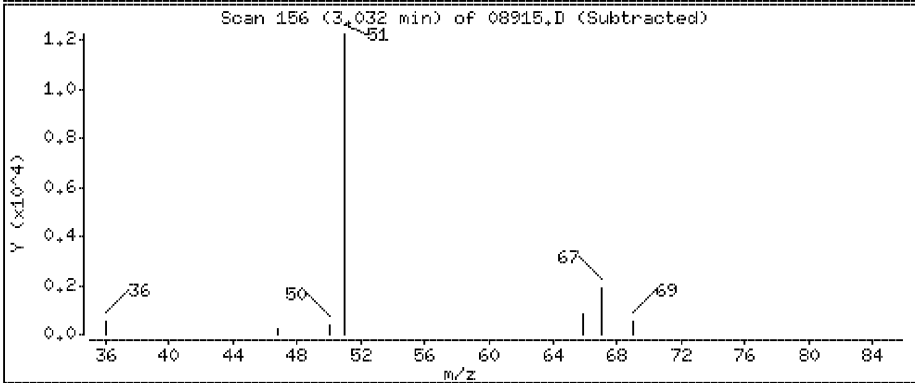
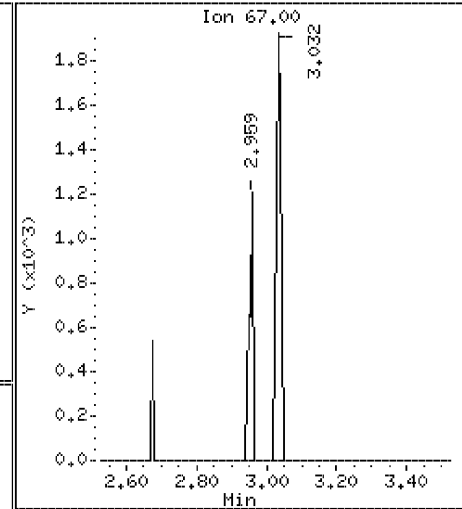
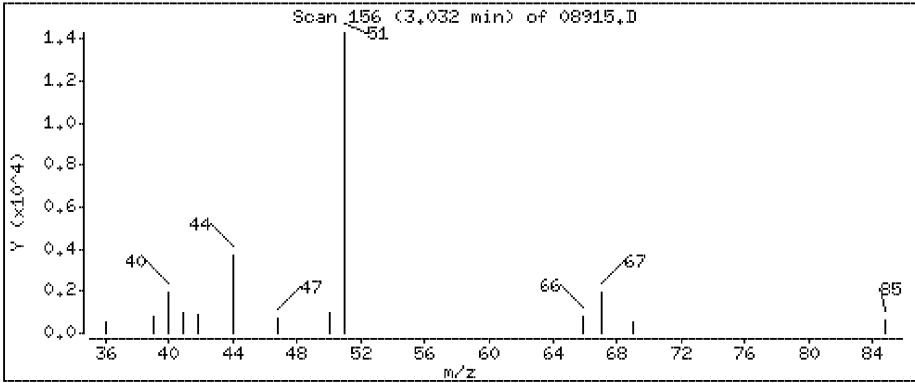
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

2 Chlorodifluoromethane

Concentration: 0,294 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08915.D

Date : 30-MAR-2019 13:24

Client ID:

Instrument: 10airI.i

Sample Info:

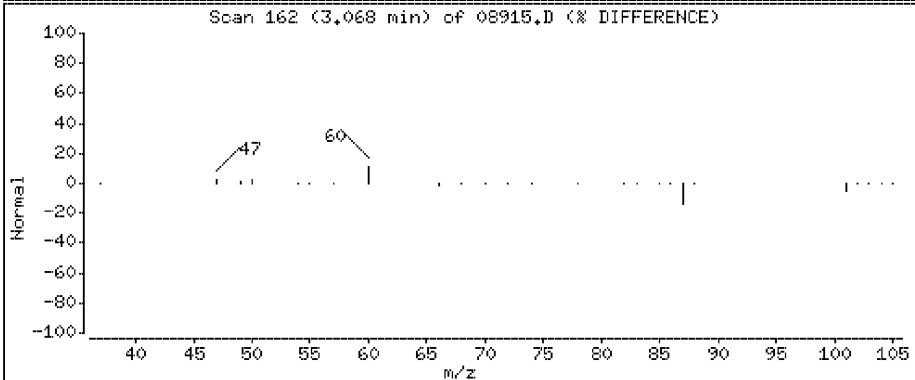
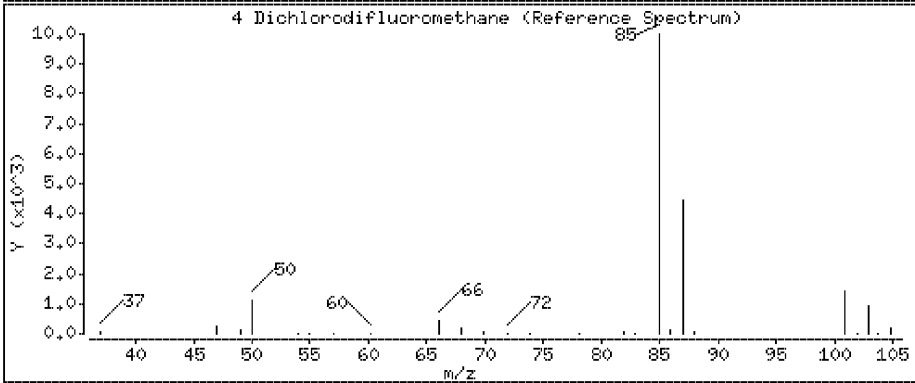
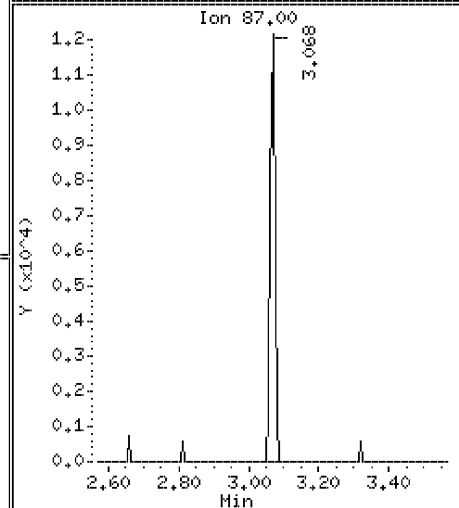
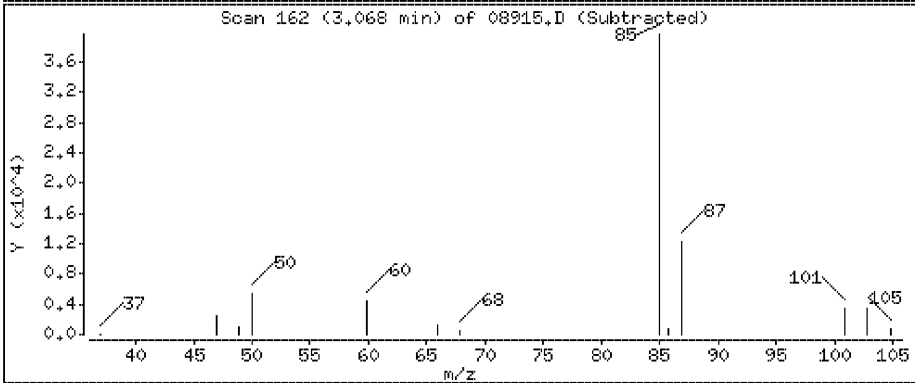
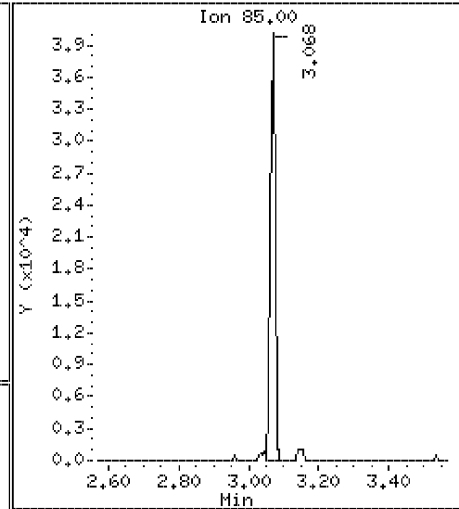
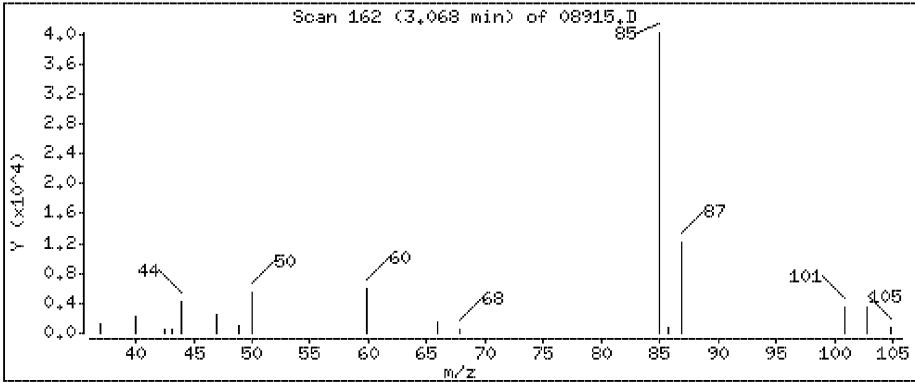
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

4 Dichlorodifluoromethane

Concentration: 0,501 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08915.D

Date : 30-MAR-2019 13:24

Client ID:

Instrument: 10airI.i

Sample Info:

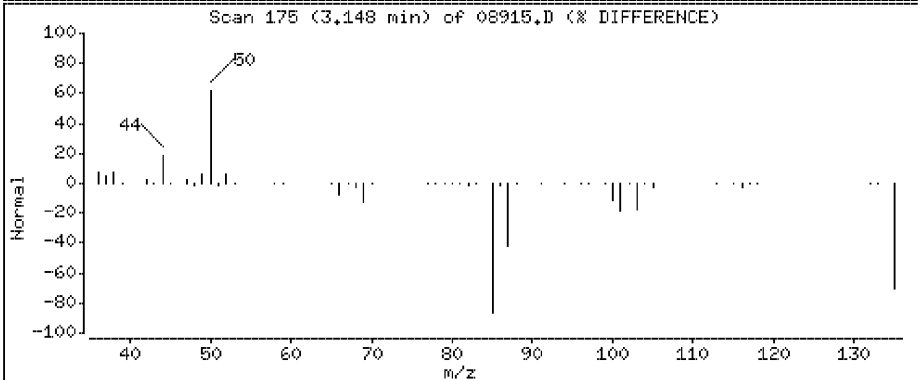
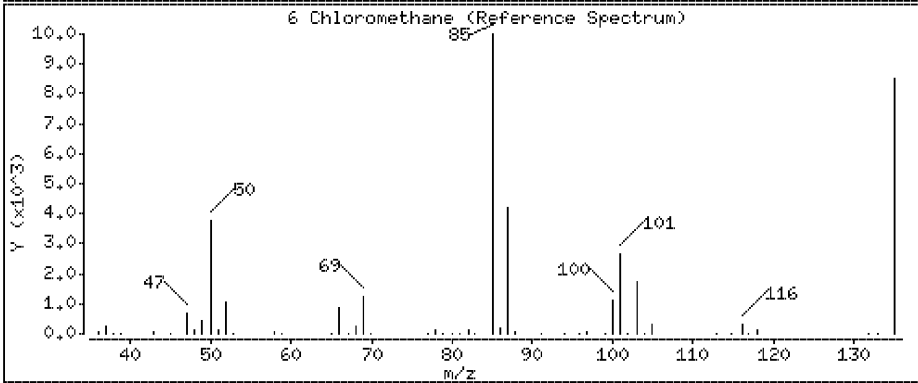
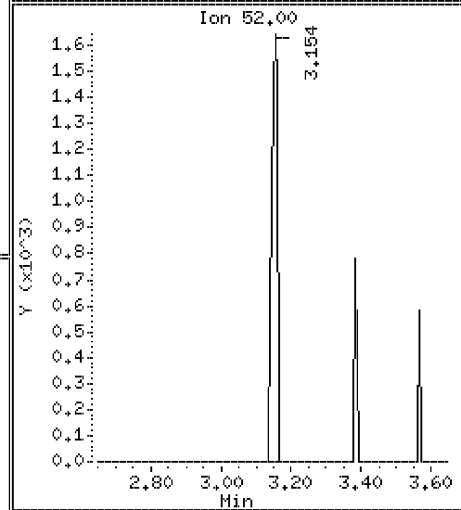
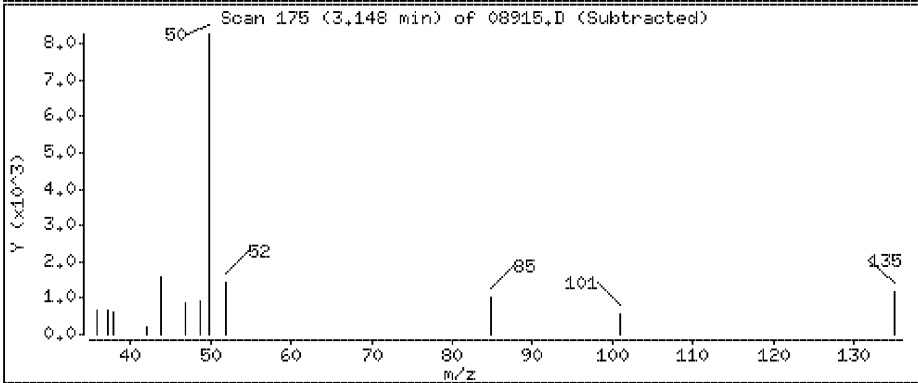
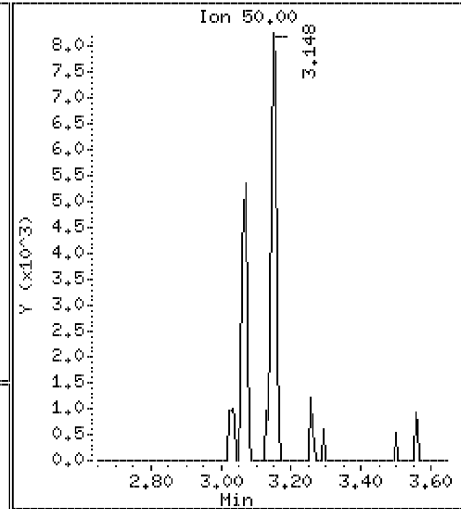
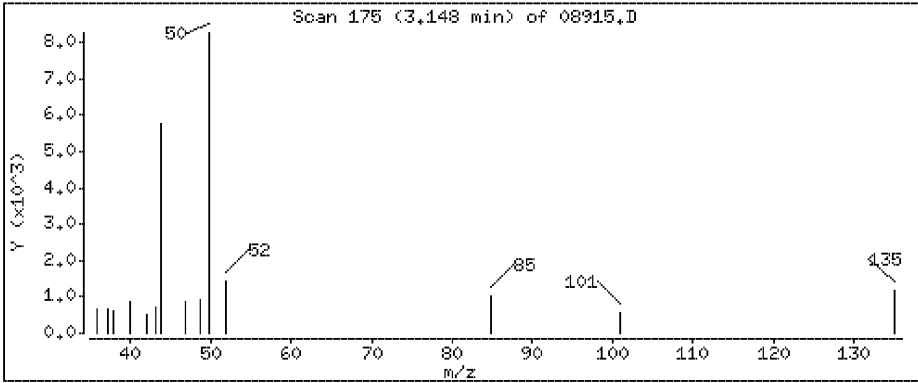
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

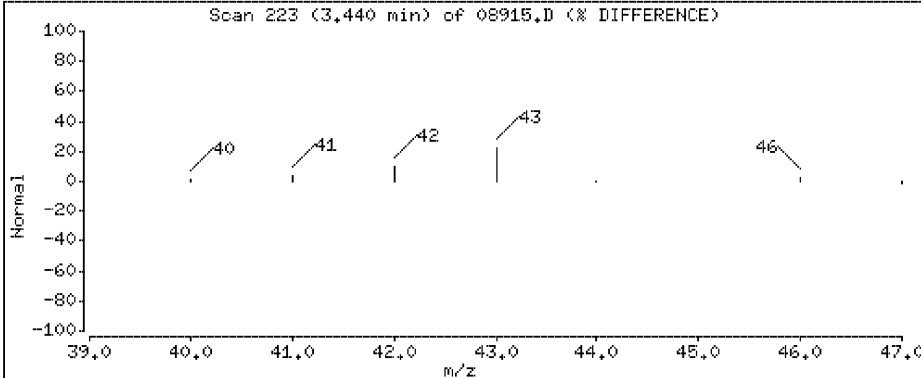
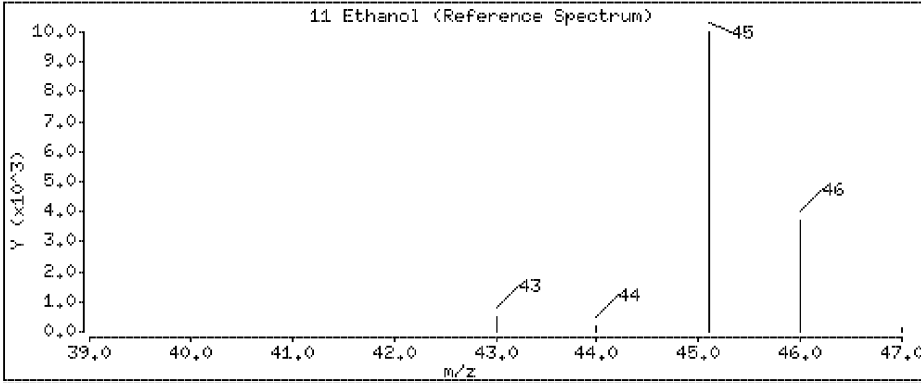
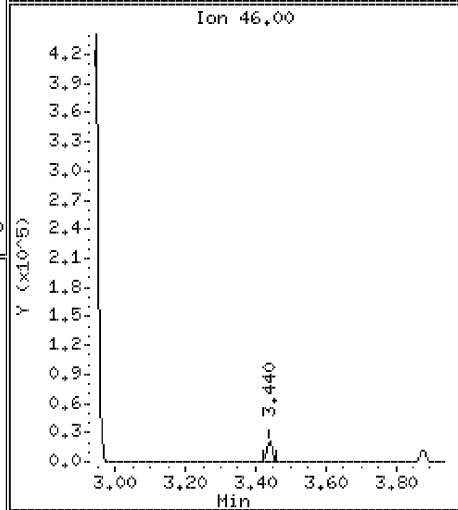
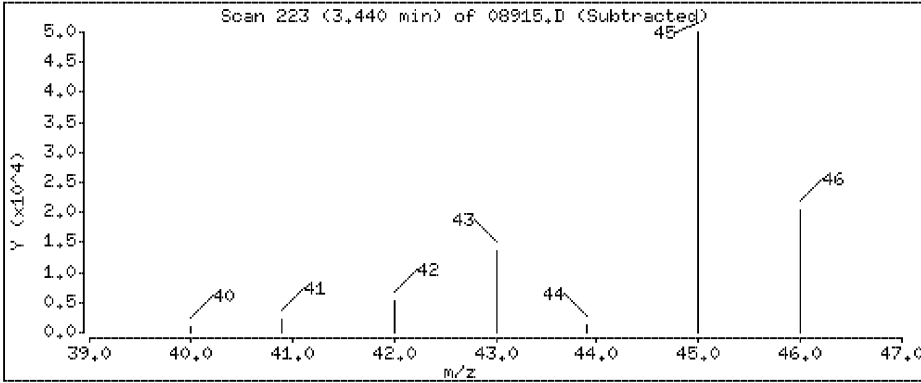
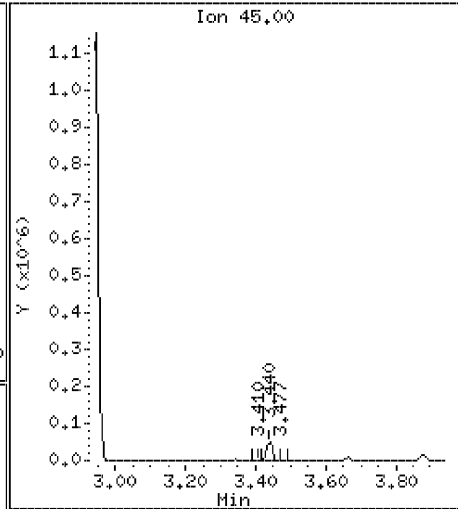
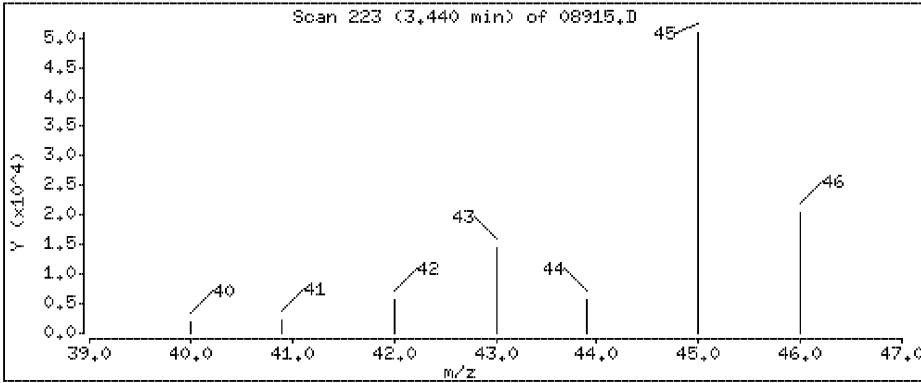
6 Chloromethane

Concentration: 0,295 ppbv



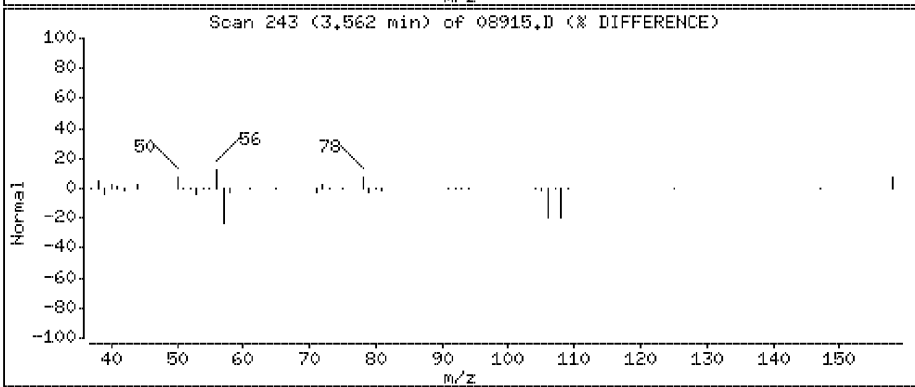
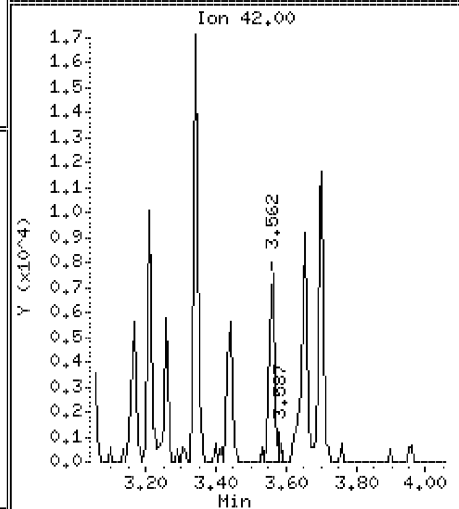
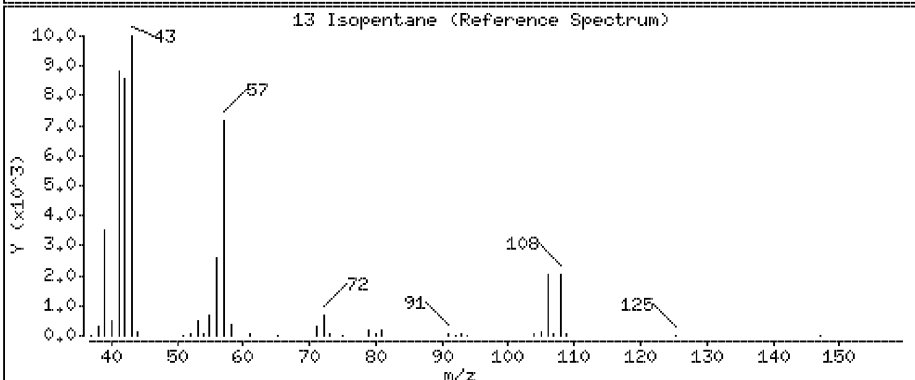
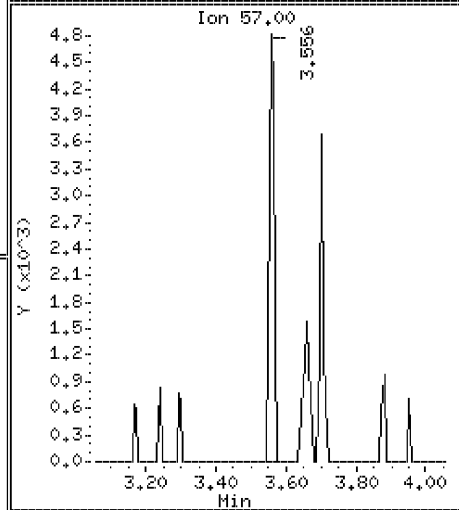
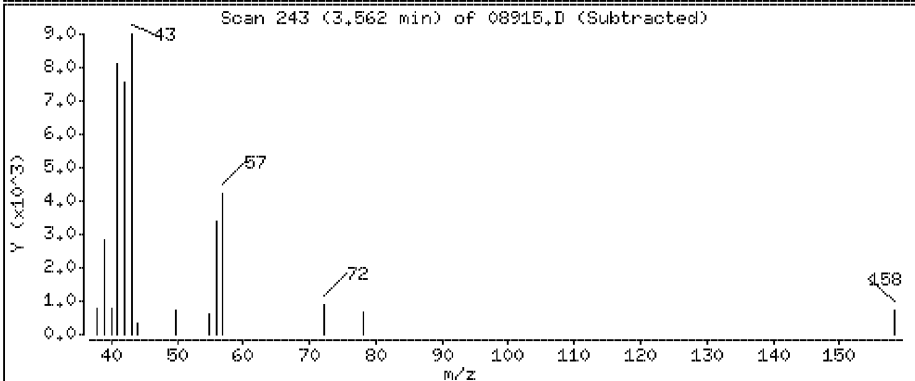
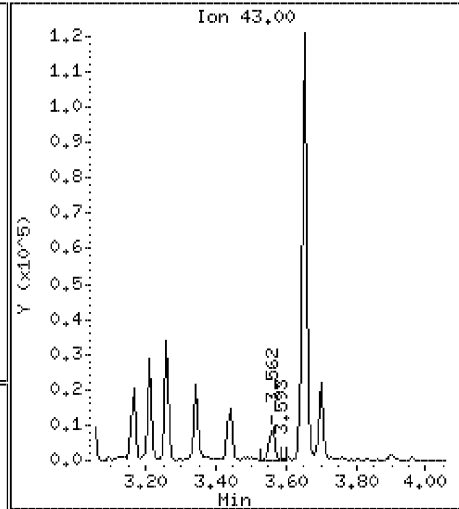
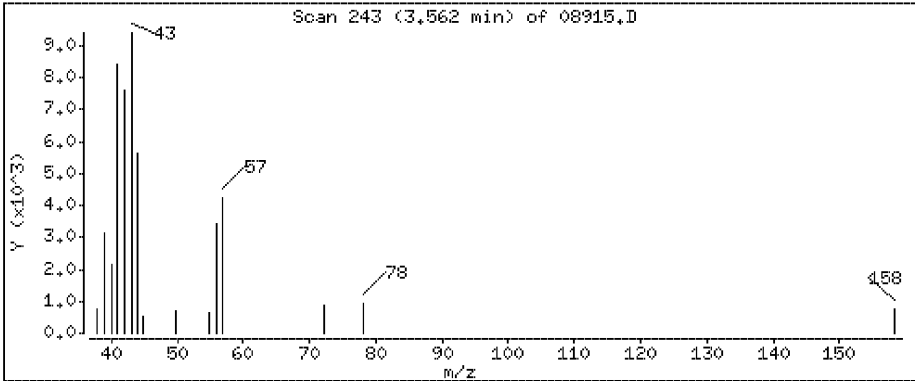
11 Ethanol

Concentration: 4.81 ppbv



13 Isopentane

Concentration: 0.400 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08915.D

Date : 30-MAR-2019 13:24

Client ID:

Instrument: 10airI.i

Sample Info:

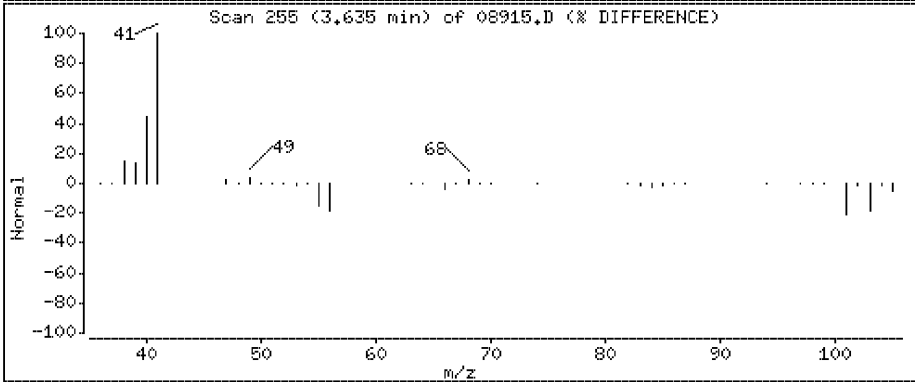
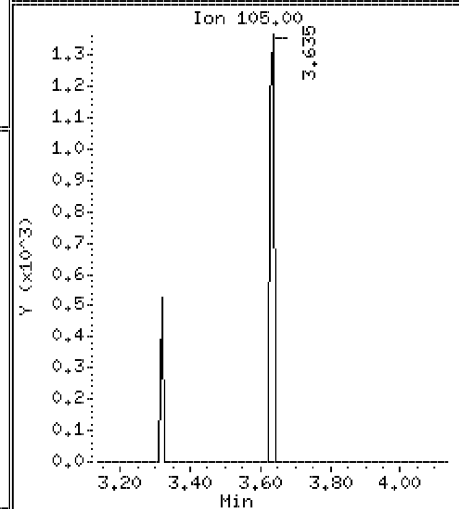
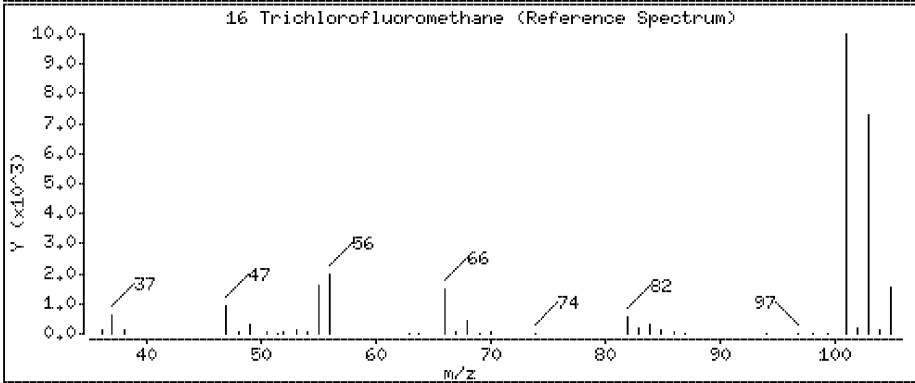
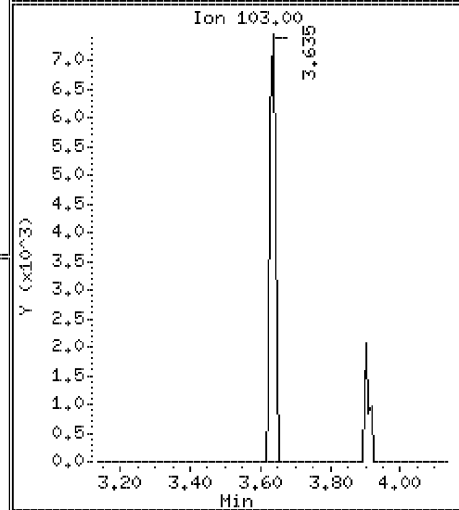
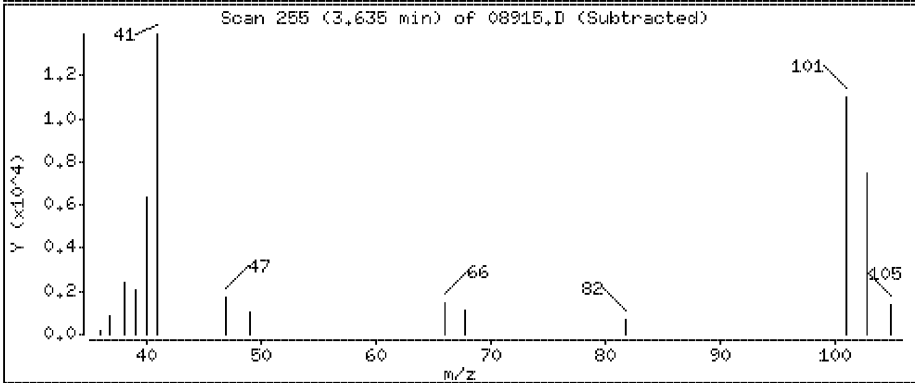
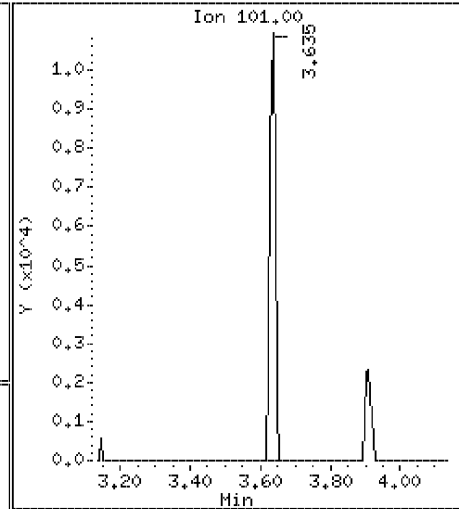
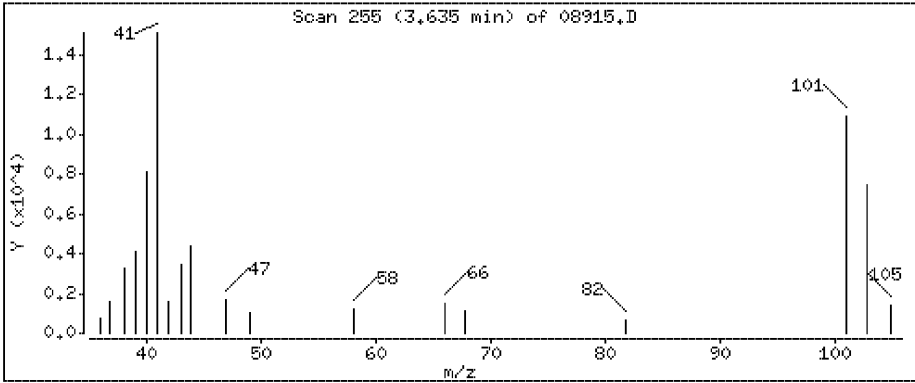
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

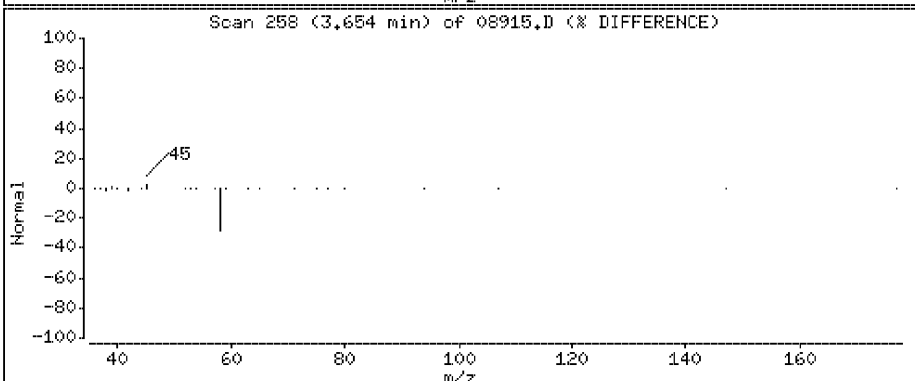
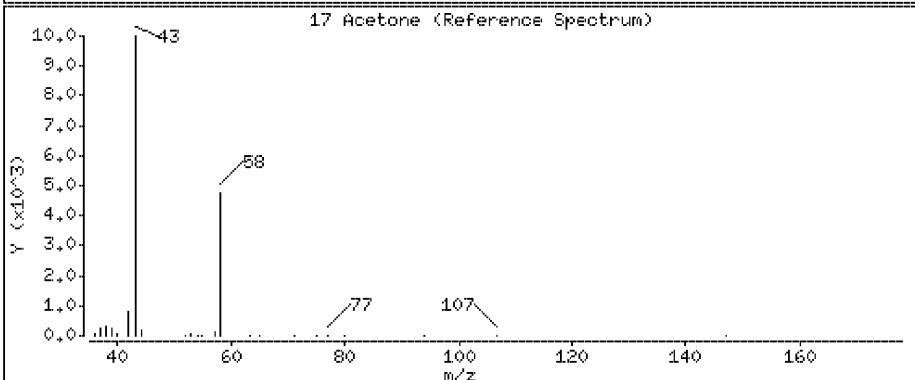
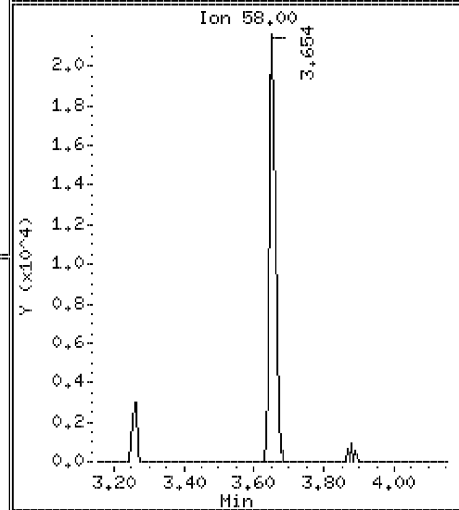
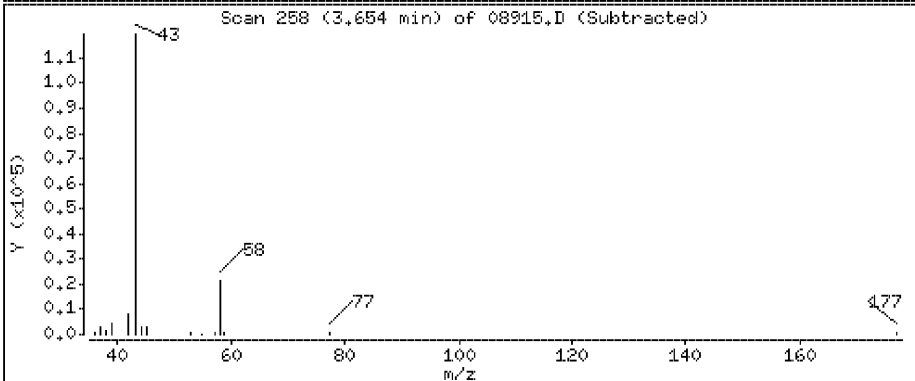
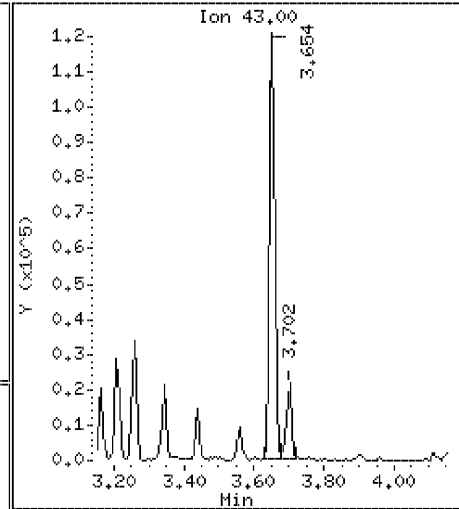
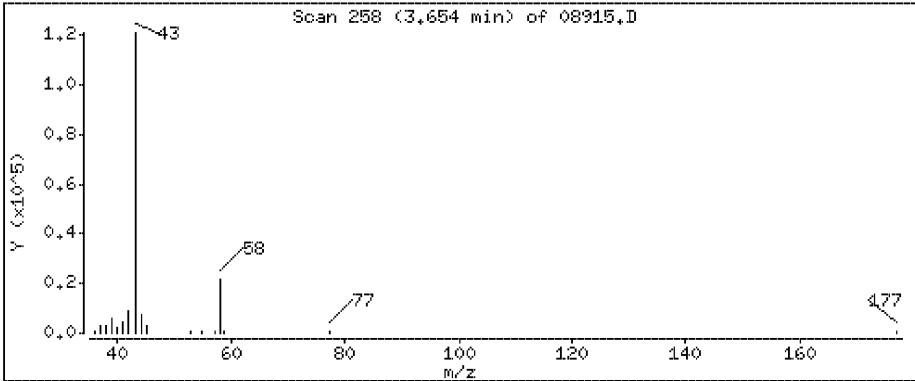
16 Trichlorofluoromethane

Concentration: 0,191 ppbv



17 Acetone

Concentration: 1,96 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08915.D

Date : 30-MAR-2019 13:24

Client ID:

Instrument: 10airI.i

Sample Info:

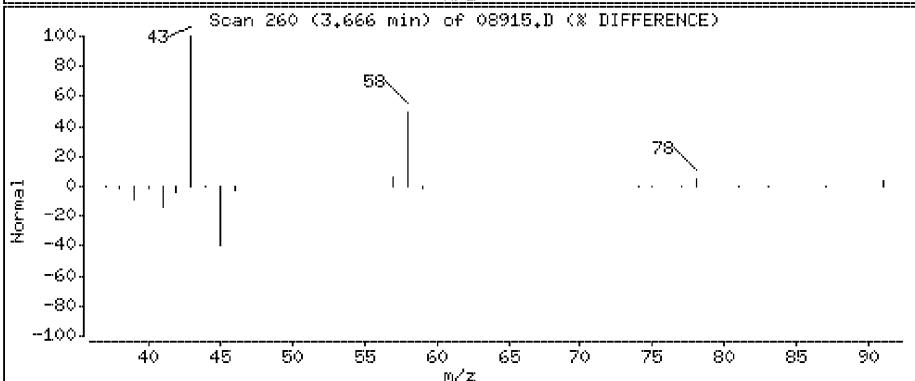
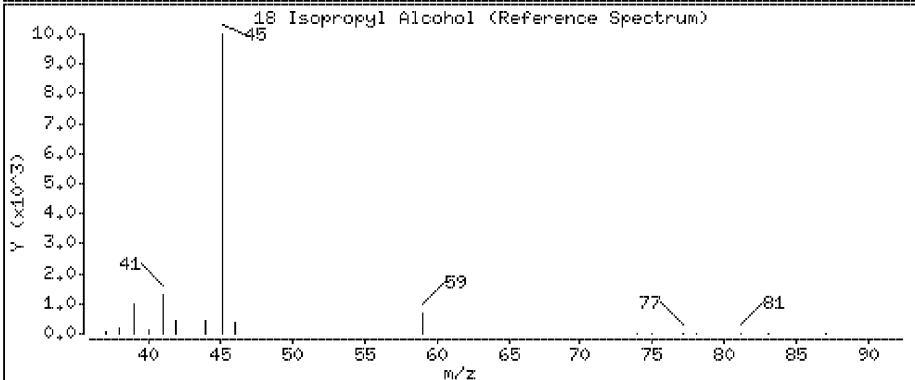
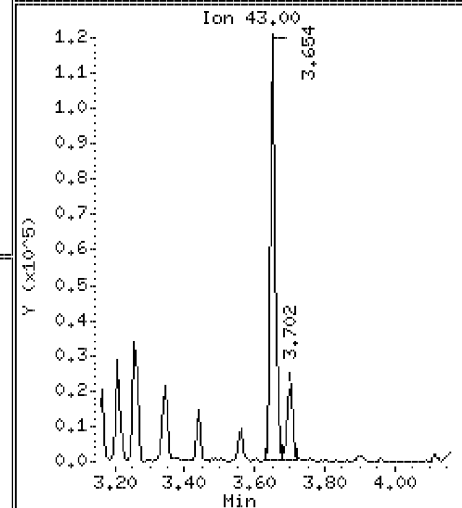
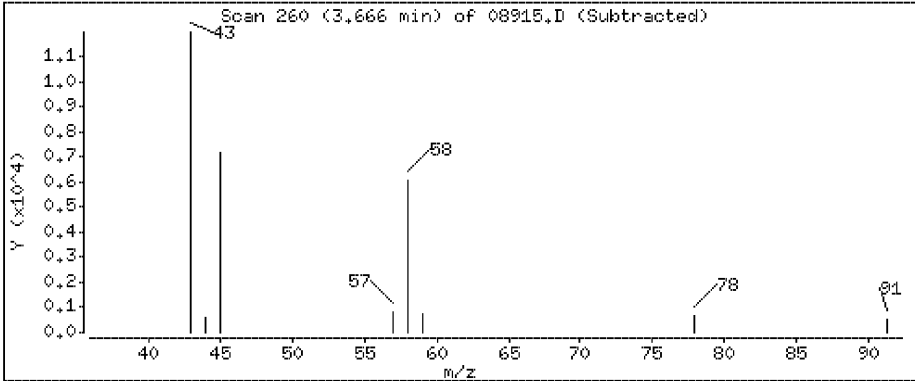
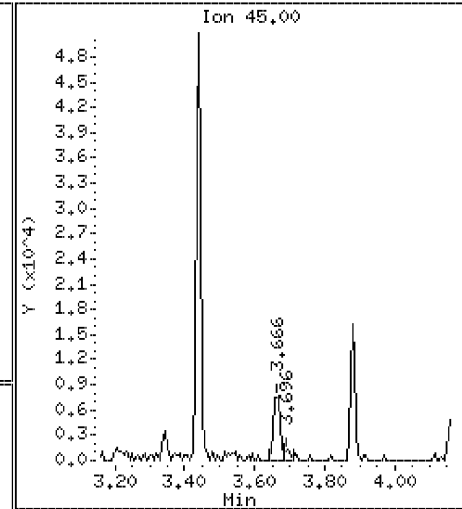
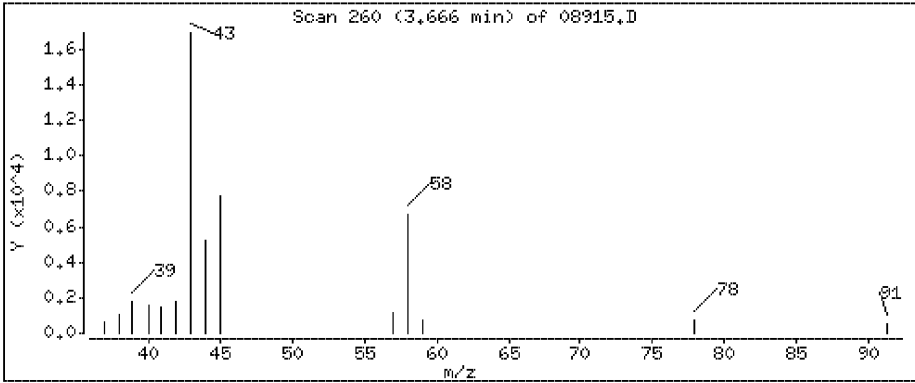
Operator: MJL

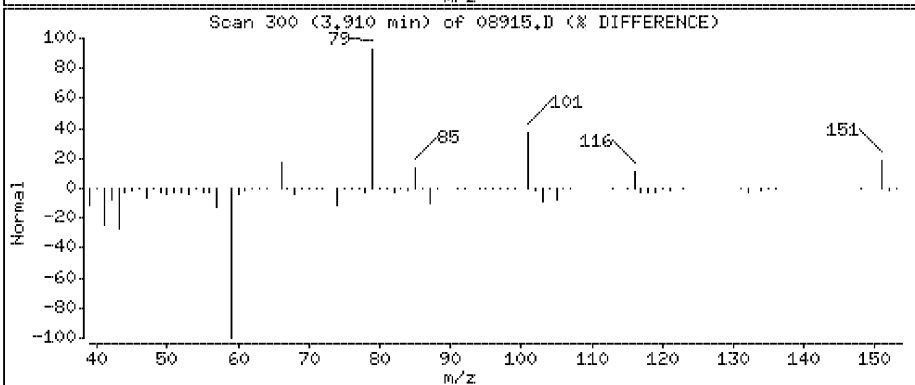
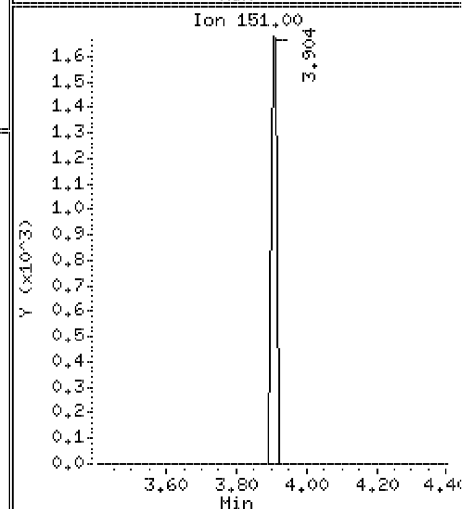
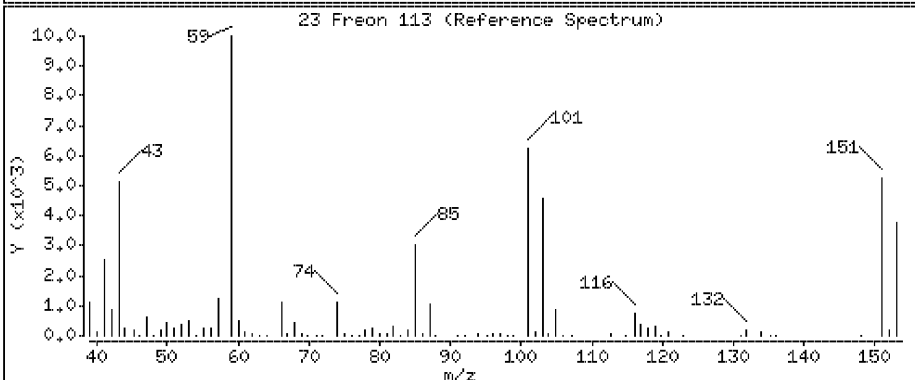
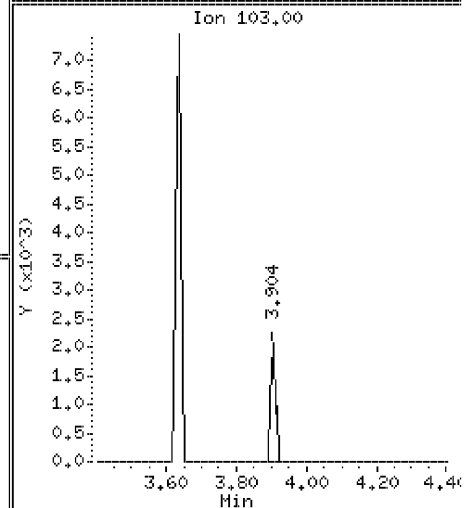
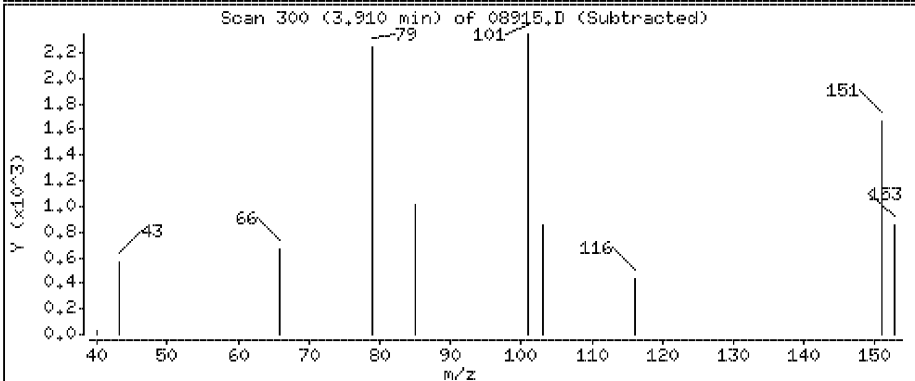
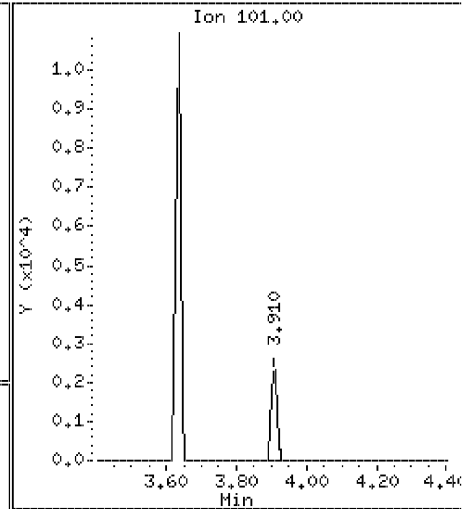
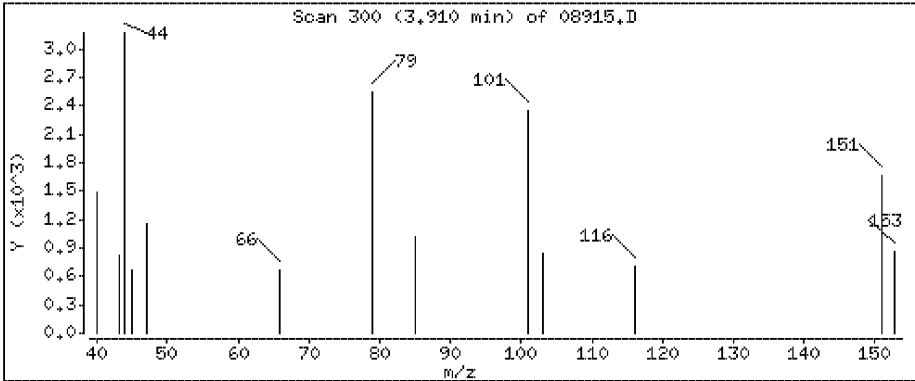
Column phase: DB-5 SN:USD449717H

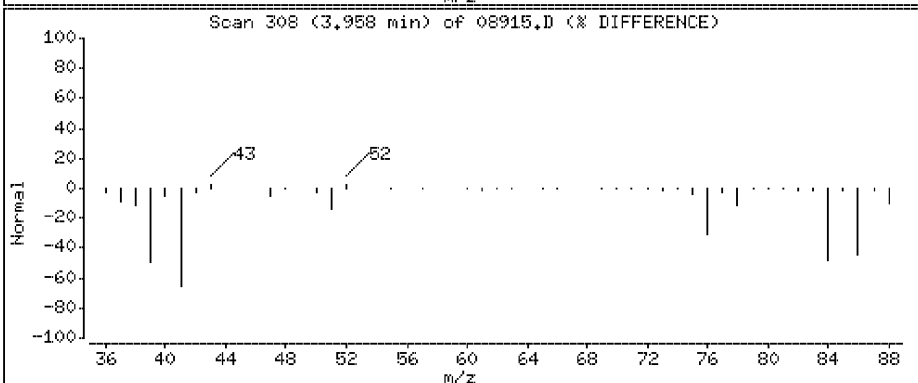
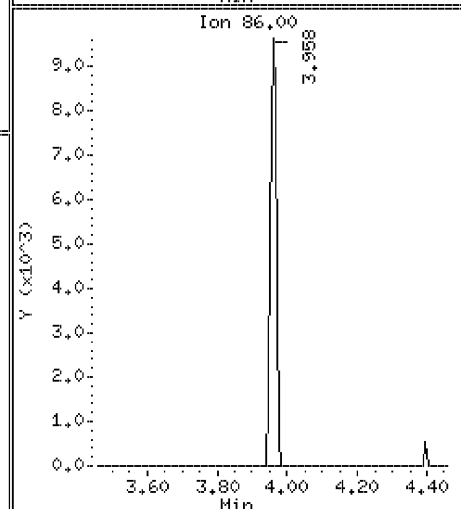
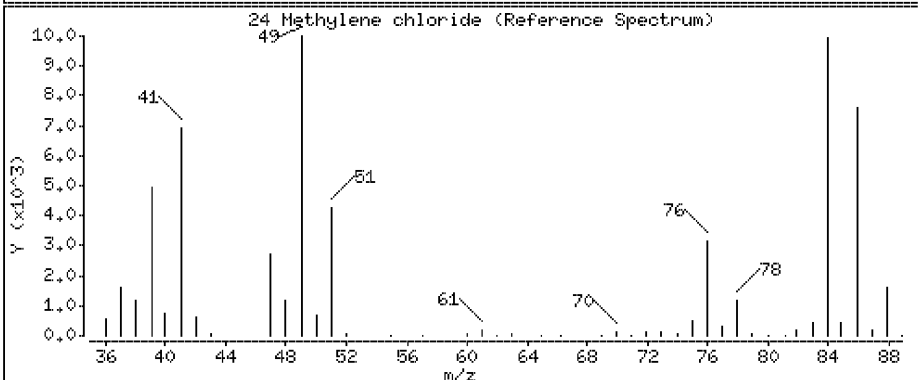
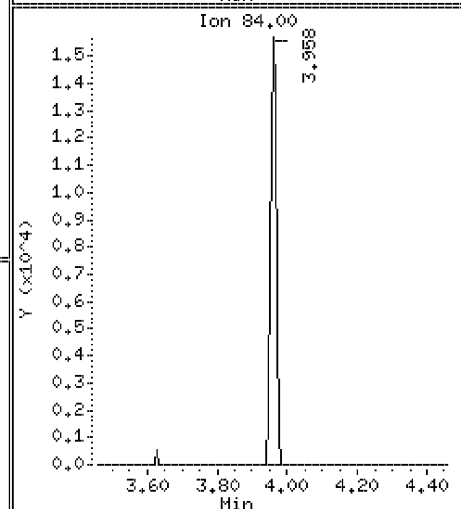
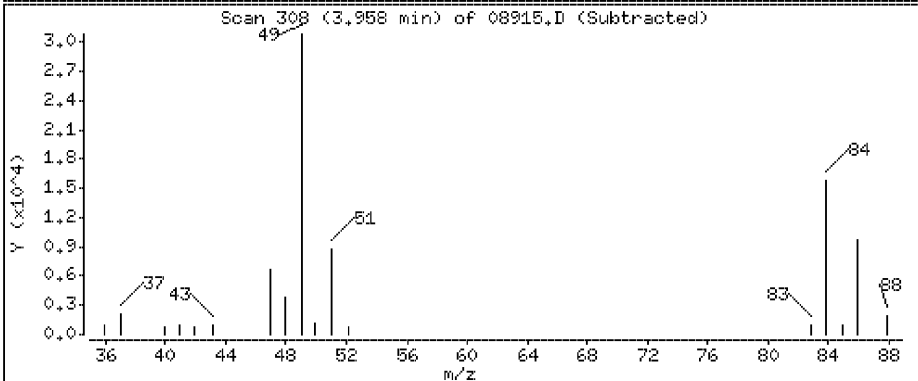
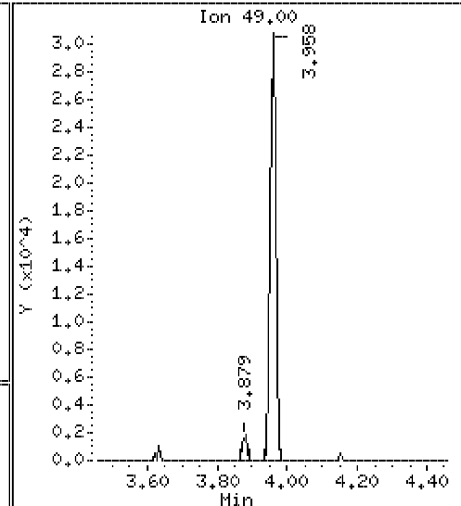
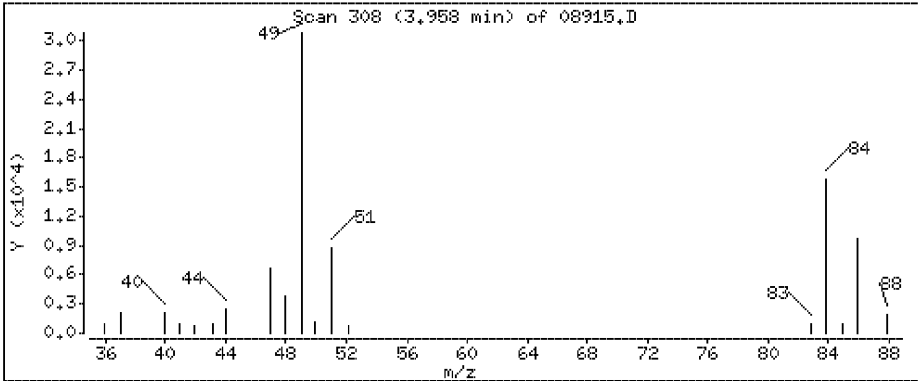
Column diameter: 0,32

18 Isopropyl Alcohol

Concentration: 0,221 ppbv

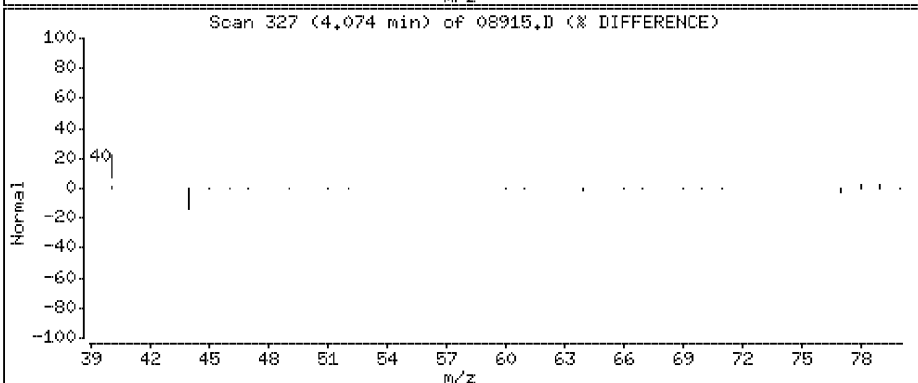
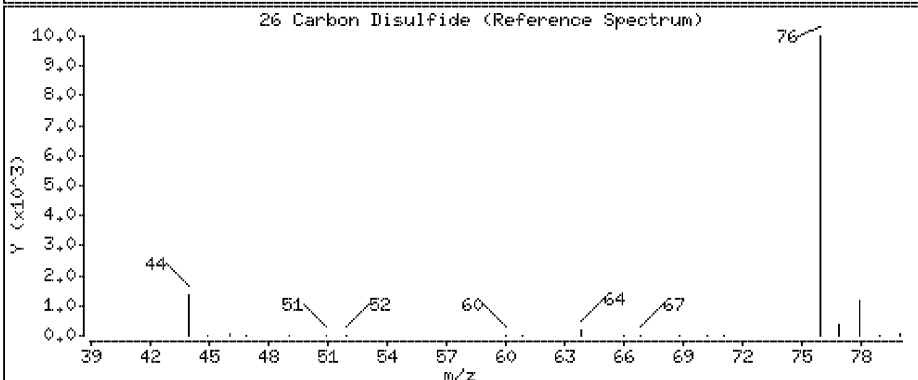
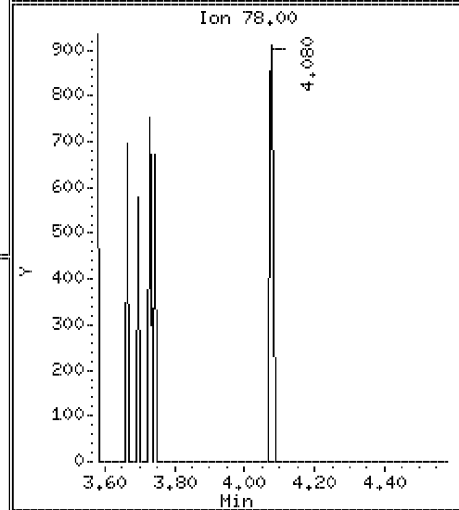
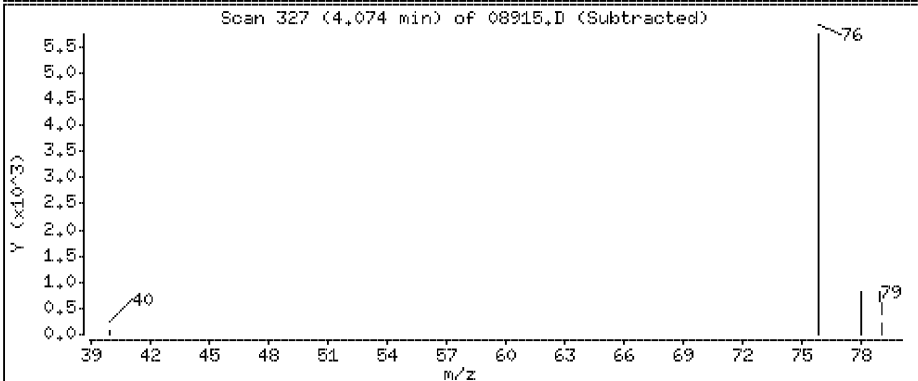
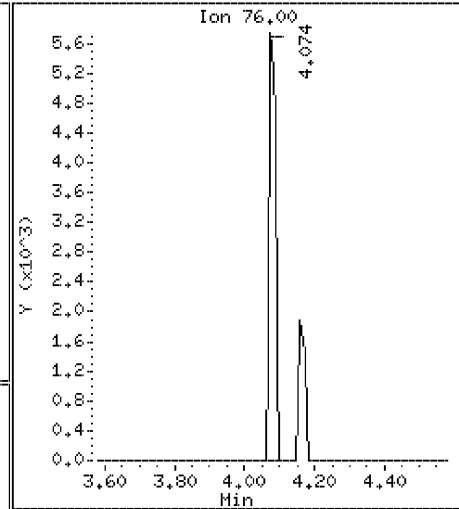
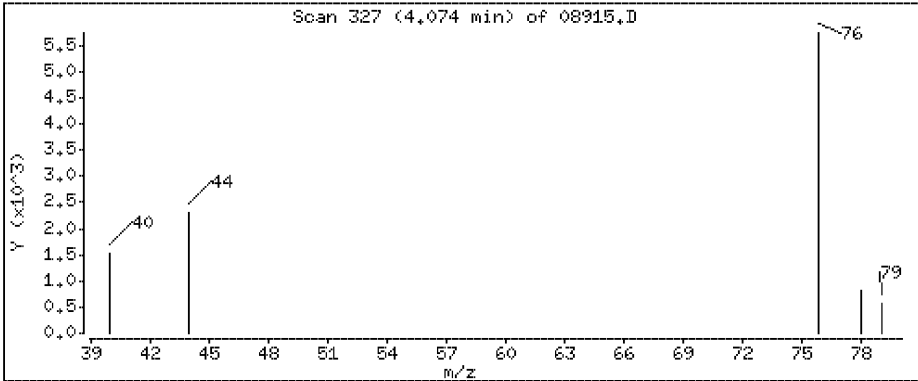






26 Carbon Disulfide

Concentration: 0,109 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08915.D

Date : 30-MAR-2019 13:24

Client ID:

Instrument: 10airI.i

Sample Info:

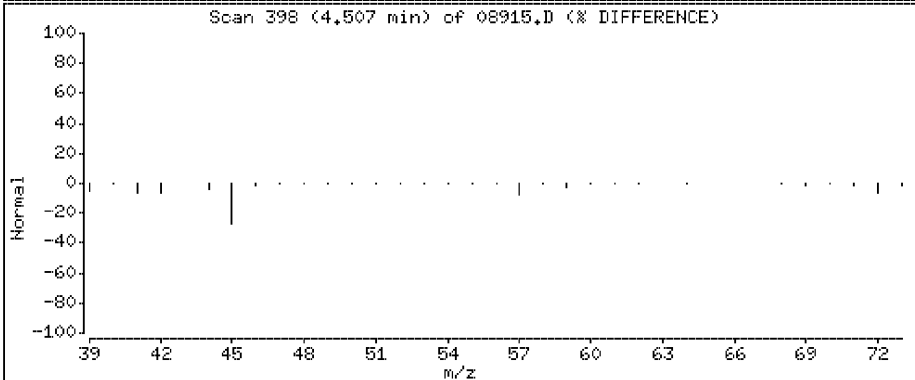
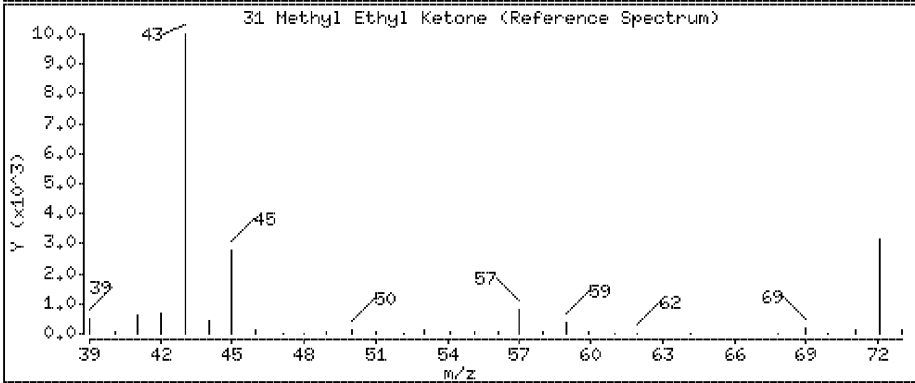
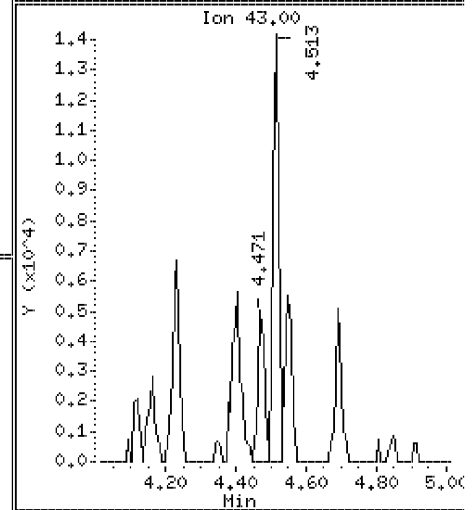
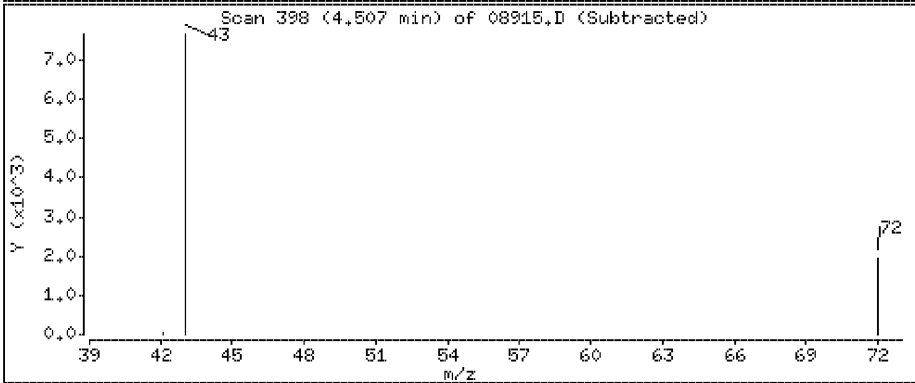
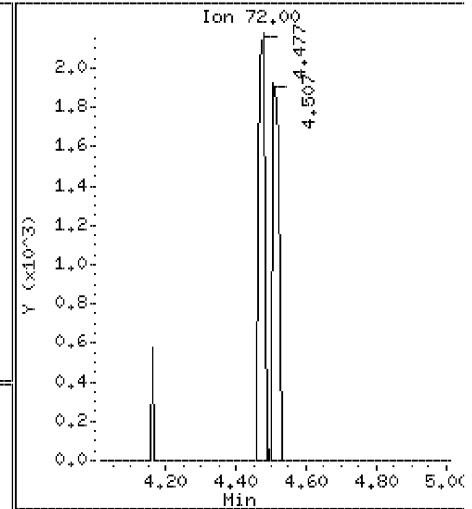
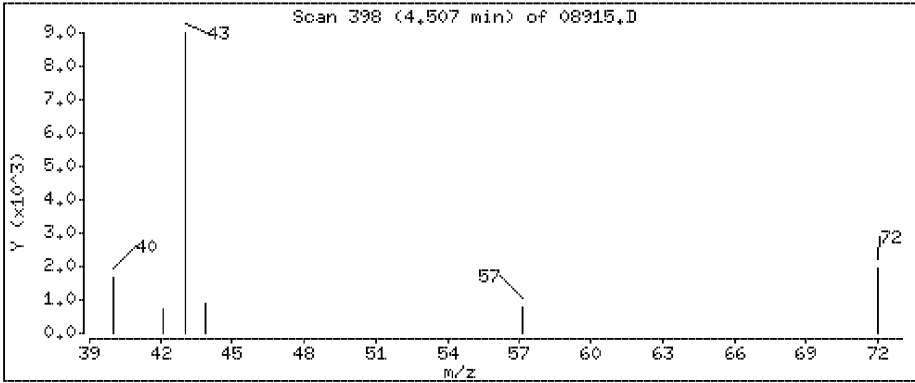
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

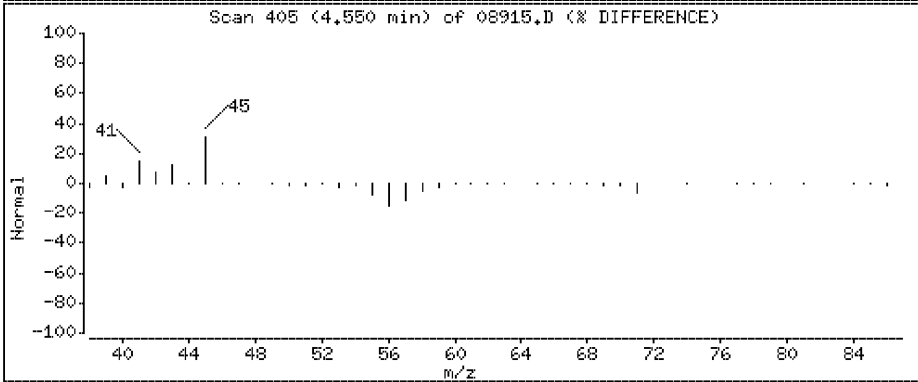
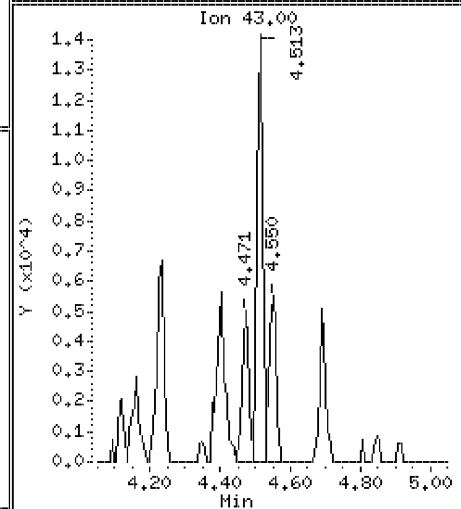
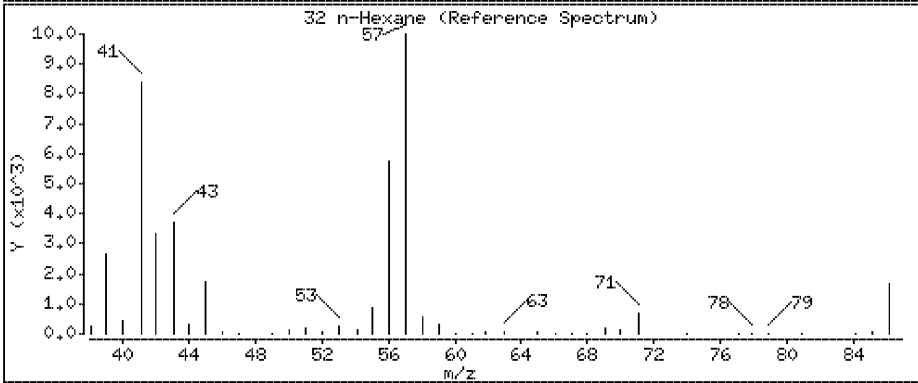
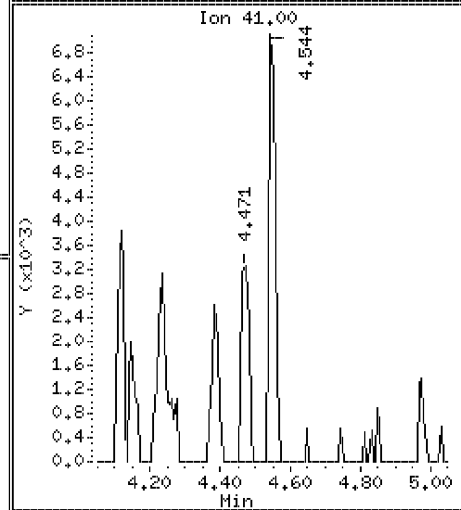
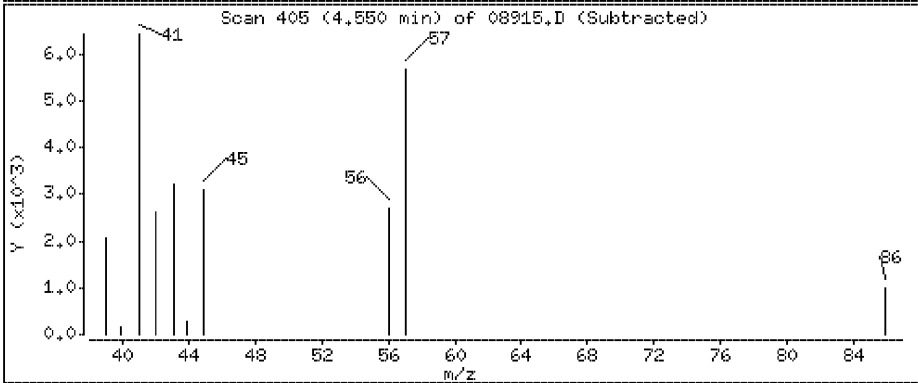
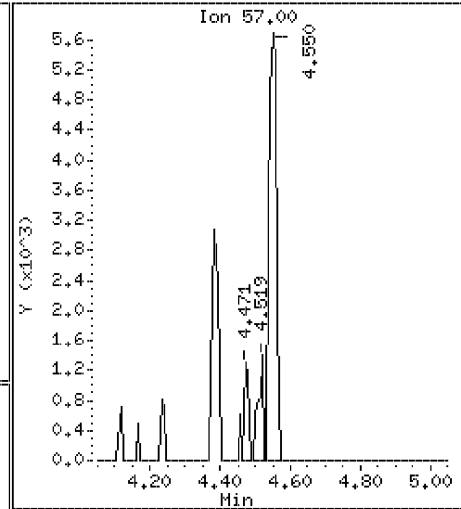
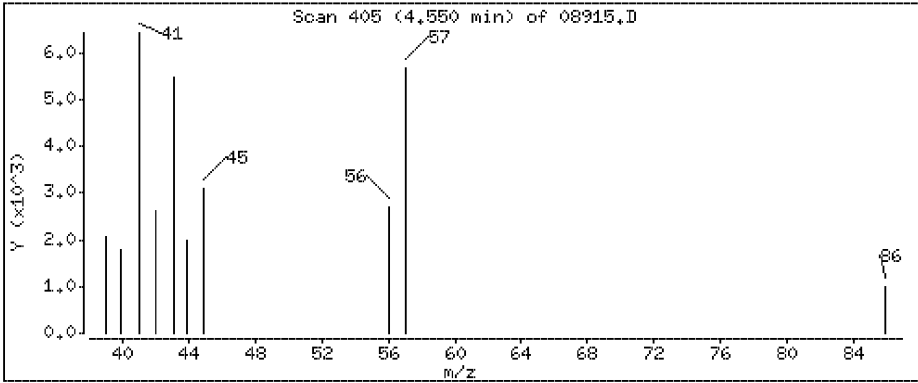
31 Methyl Ethyl Ketone

Concentration: 0.159 ppbv



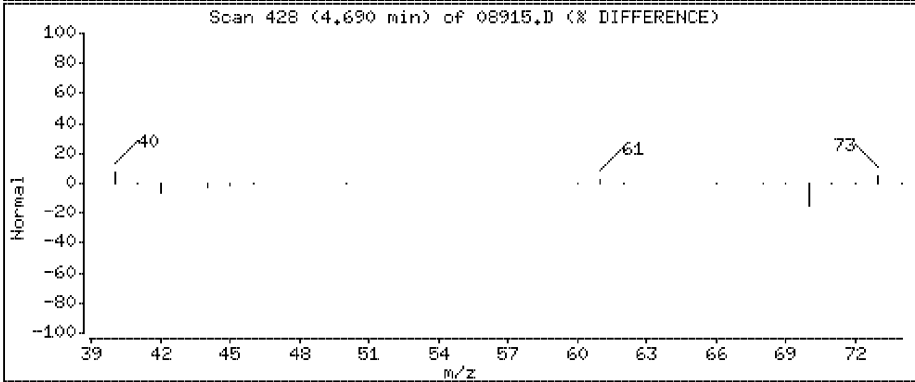
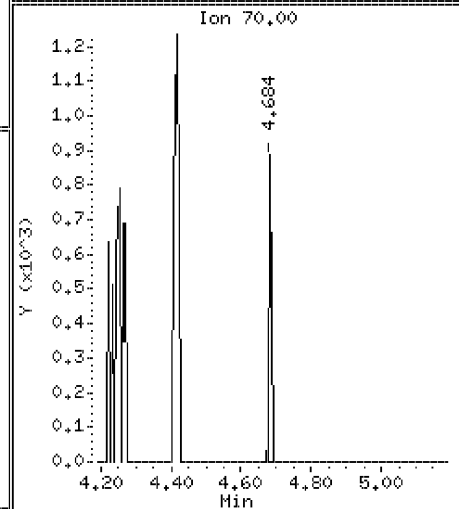
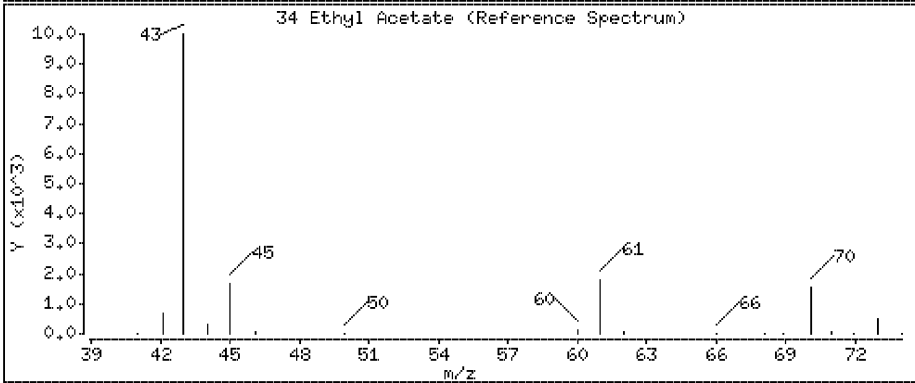
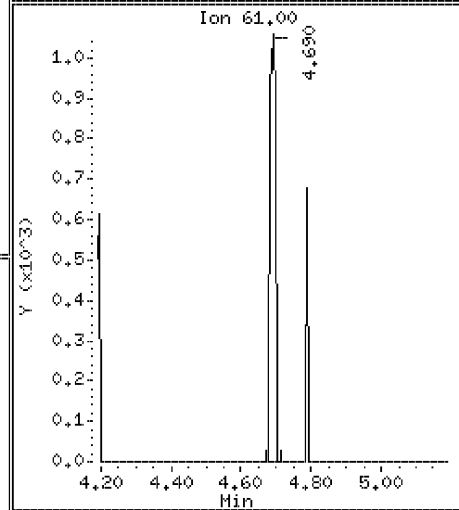
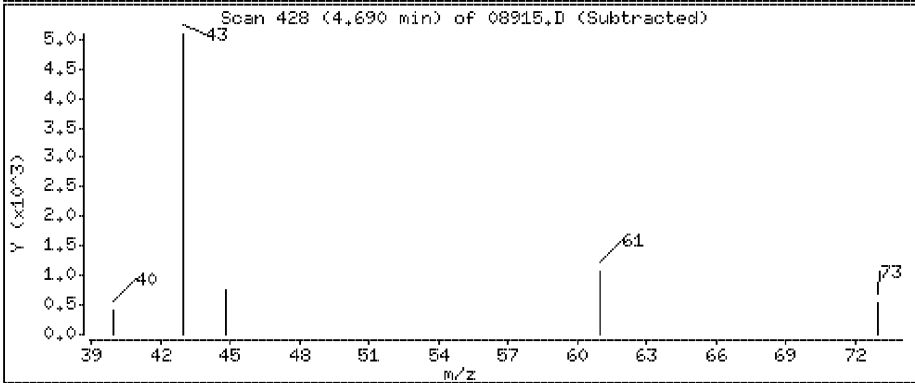
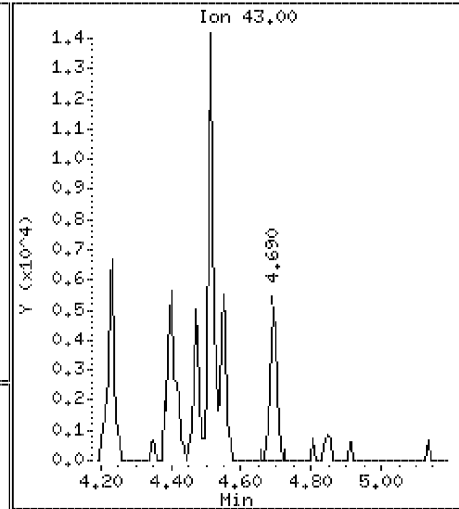
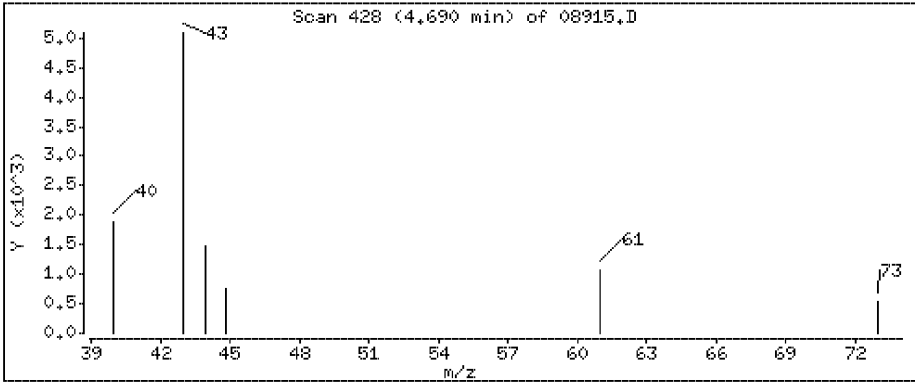
32 n-Hexane

Concentration: 0.180 ppbv



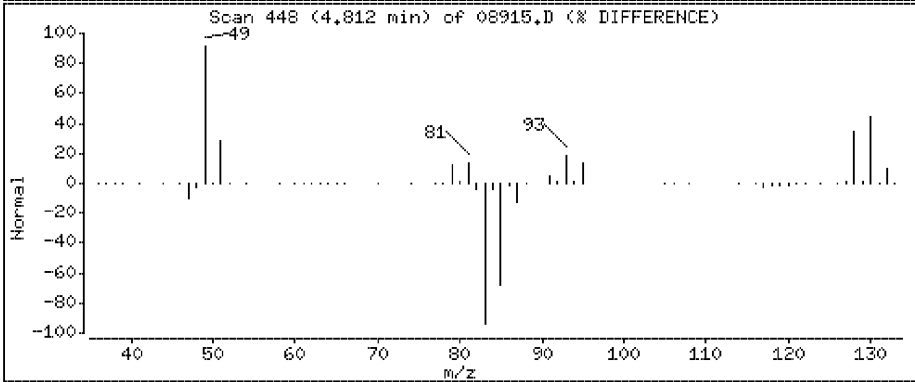
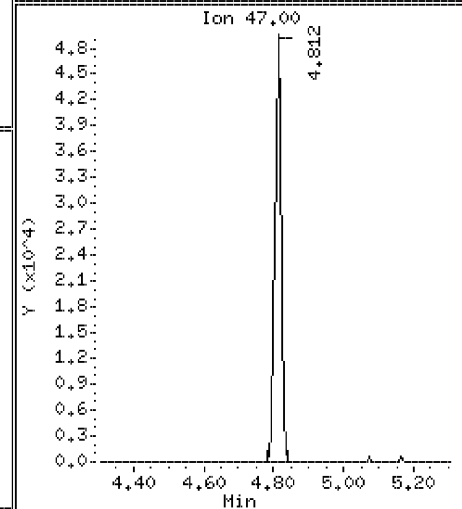
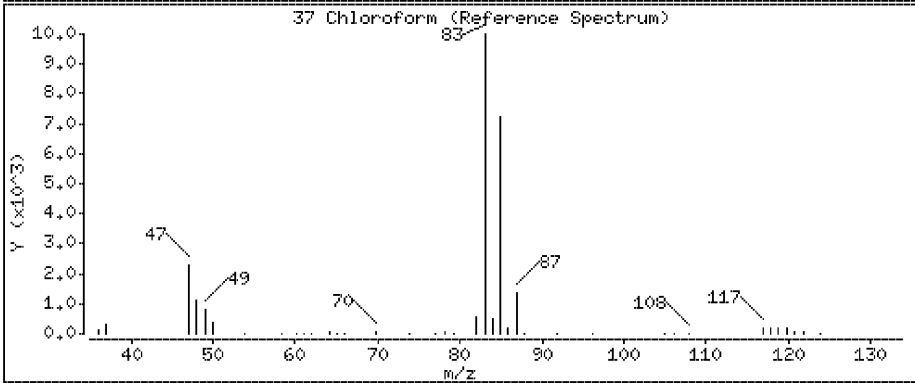
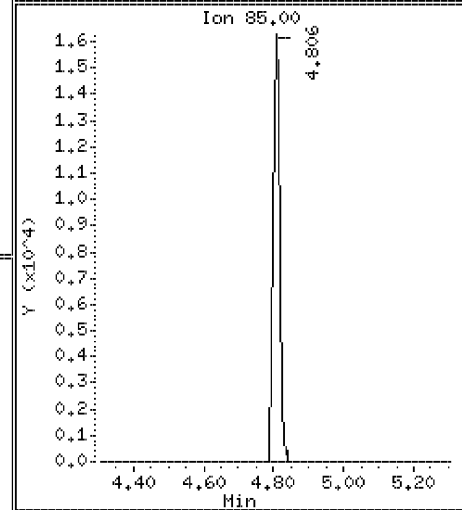
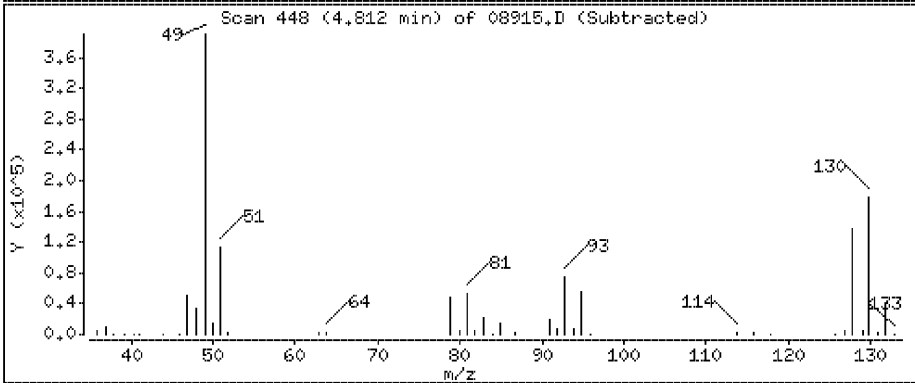
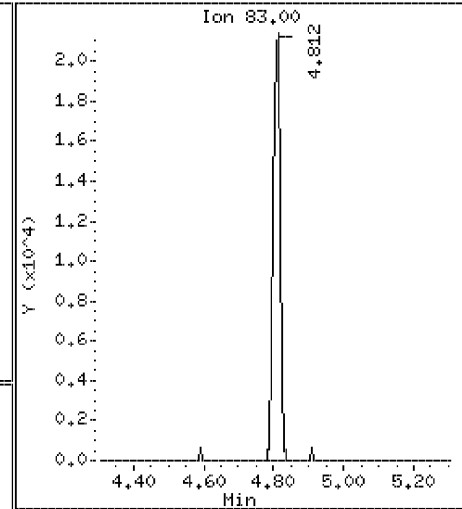
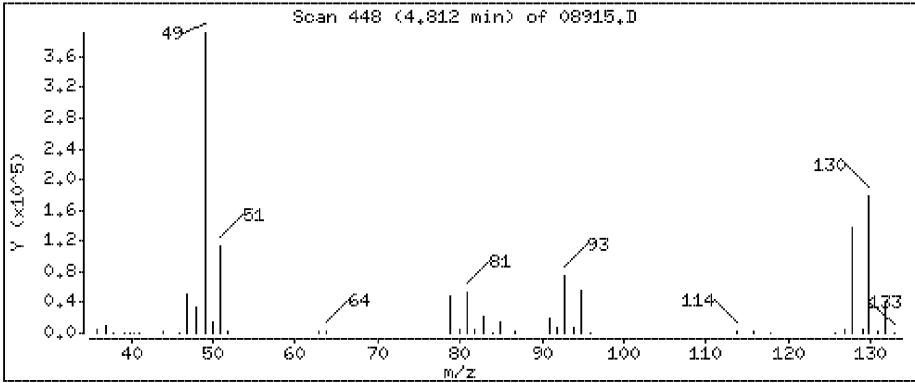
34 Ethyl Acetate

Concentration: 0.0812 ppbv



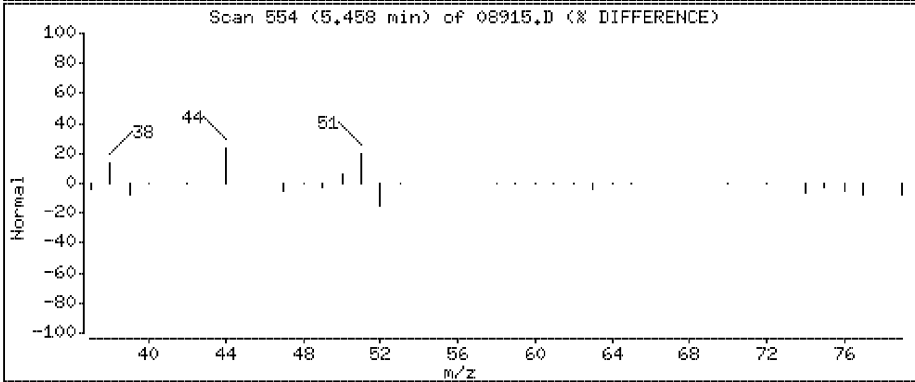
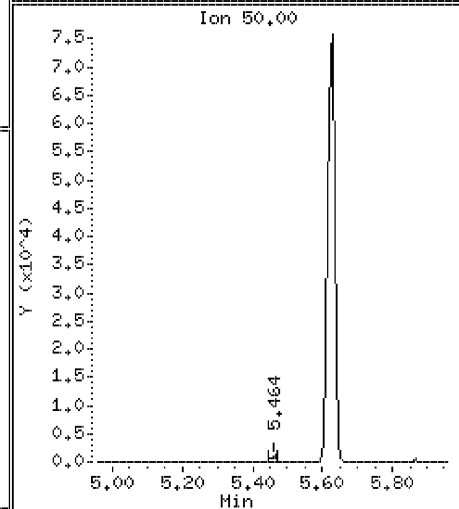
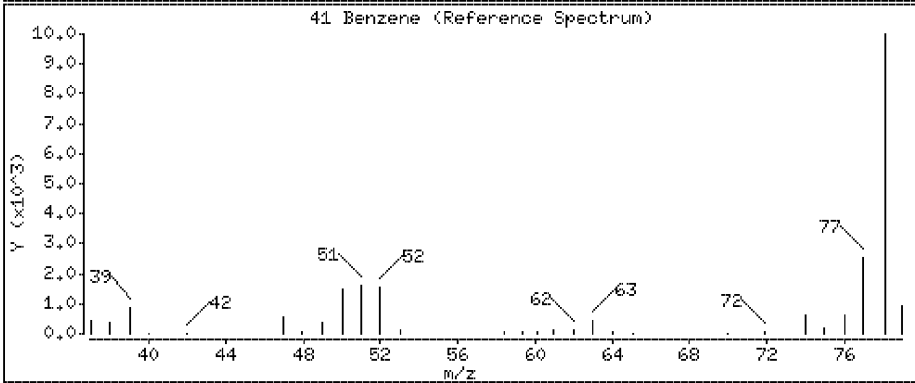
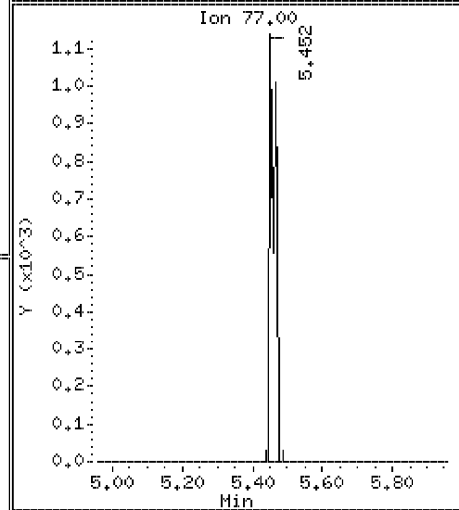
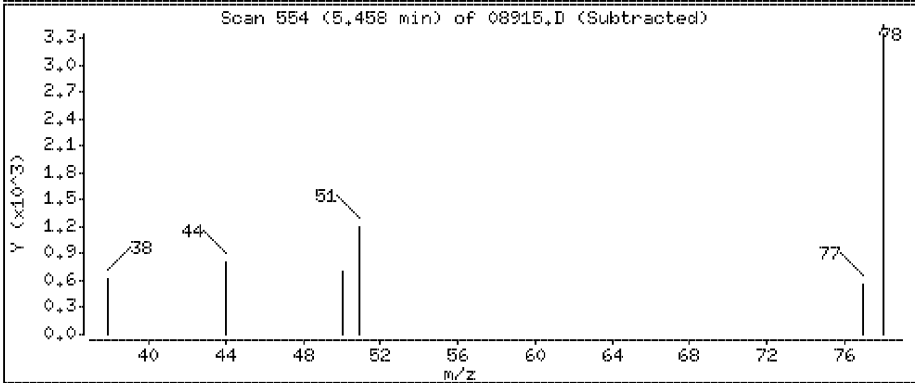
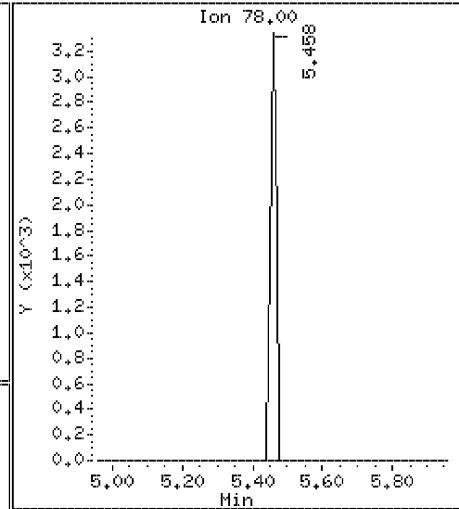
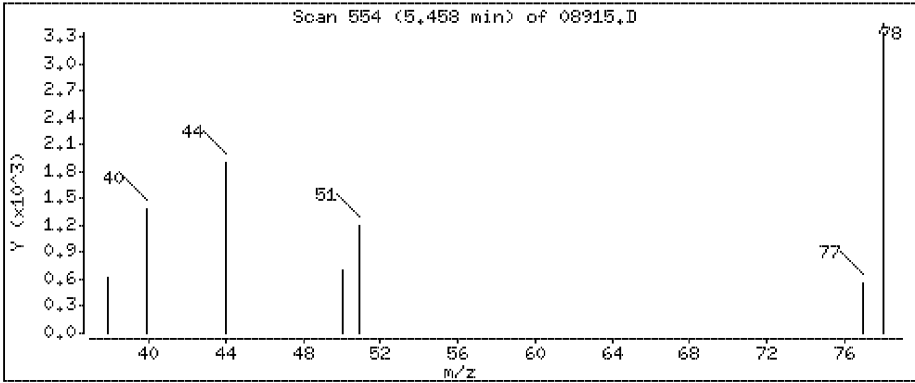
37 Chloroform

Concentration: 0,504 ppbv



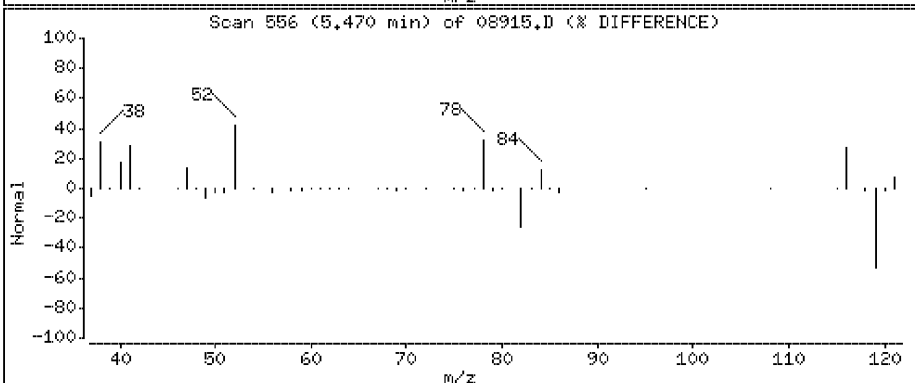
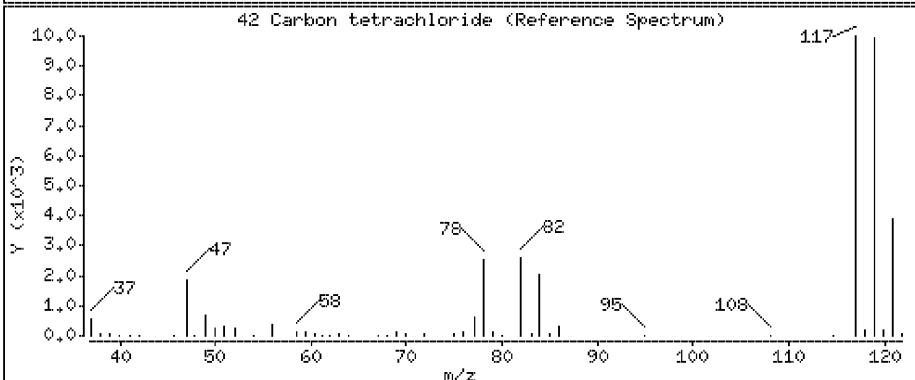
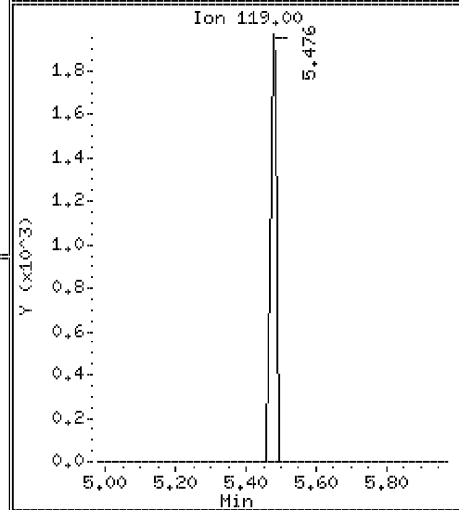
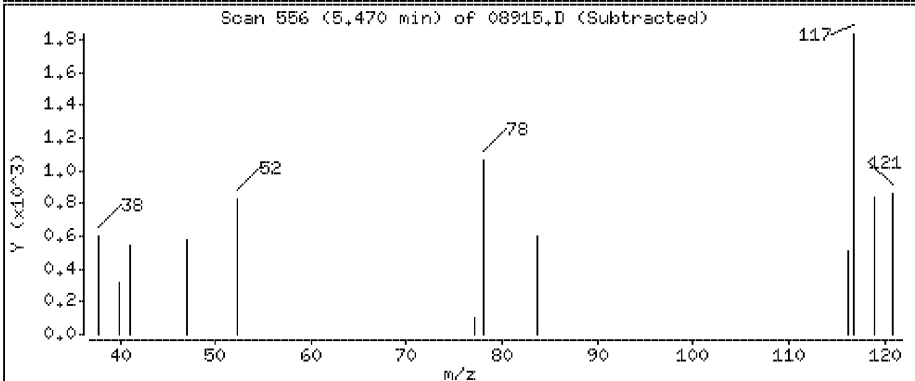
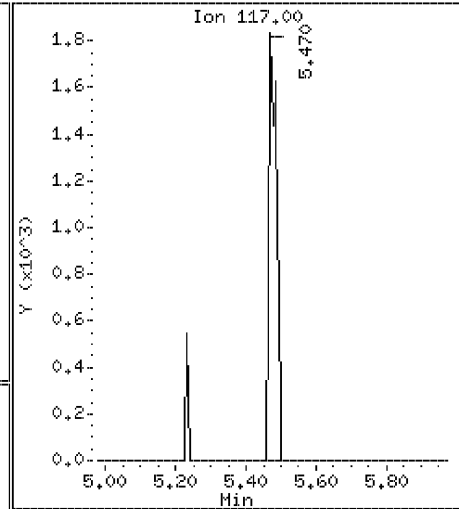
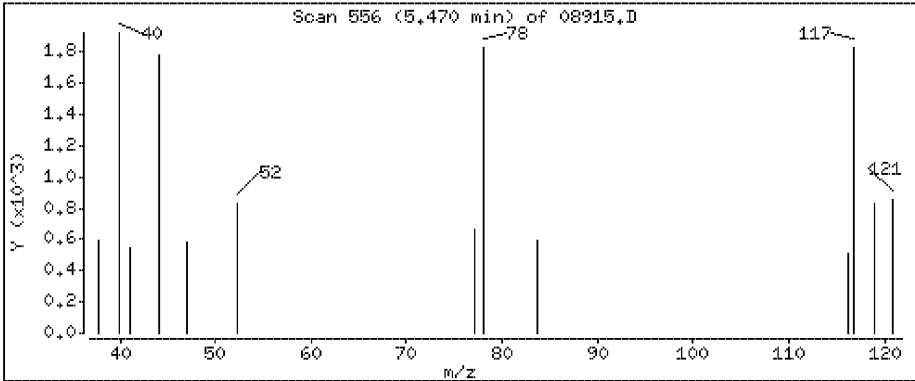
41 Benzene

Concentration: 0.0518 ppbv



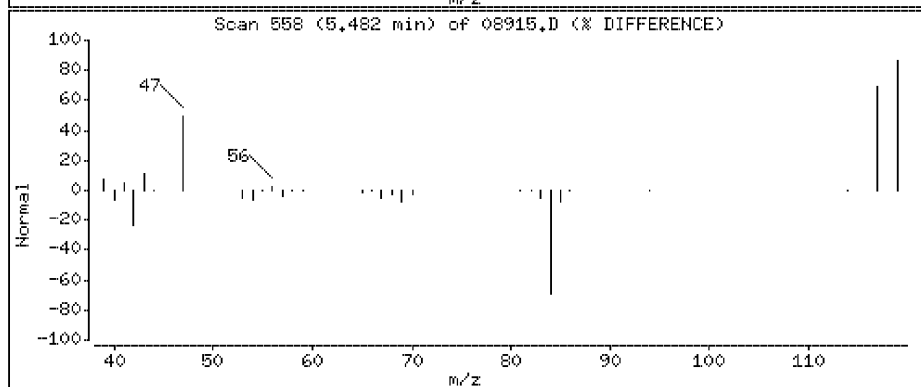
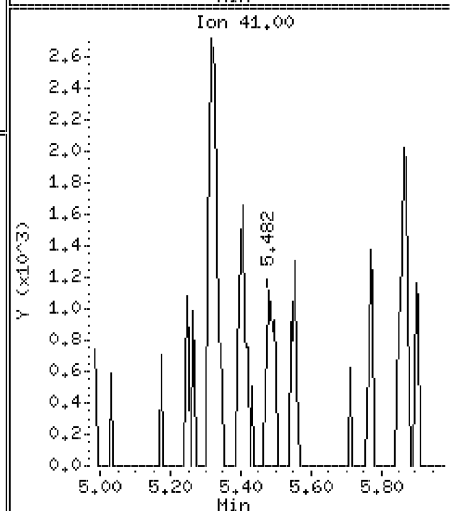
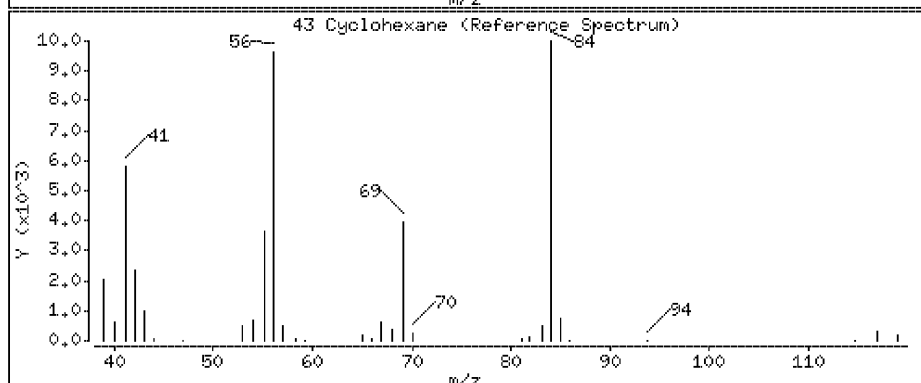
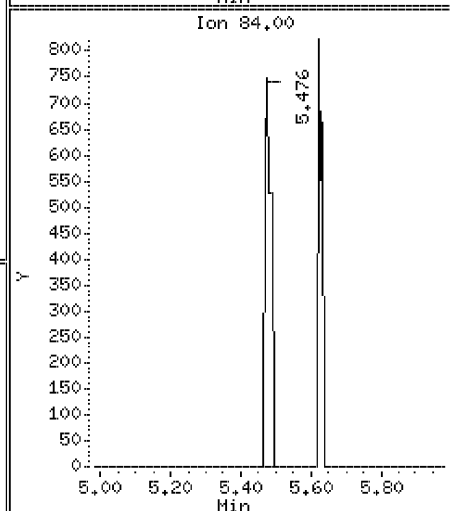
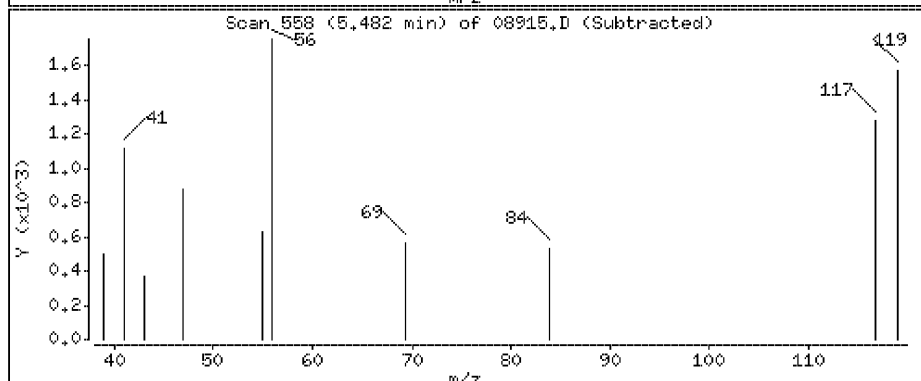
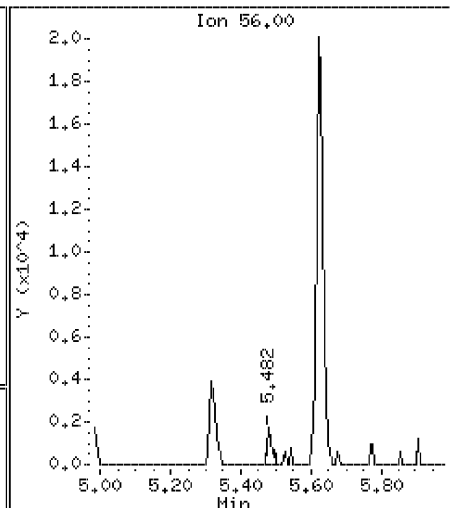
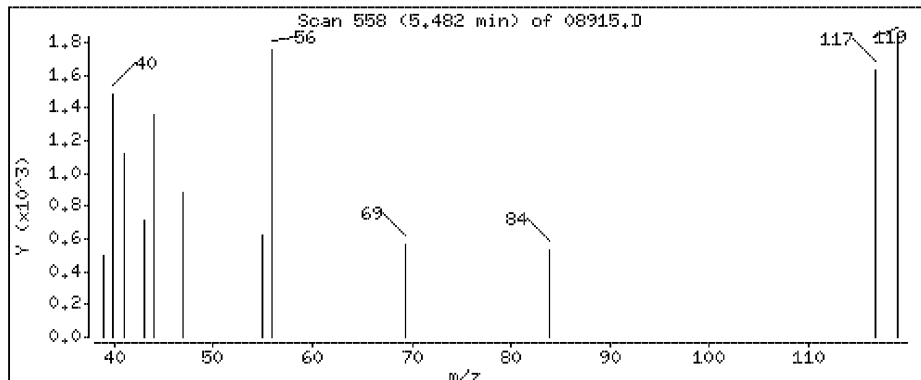
42 Carbon tetrachloride

Concentration: 0.0501 ppbv



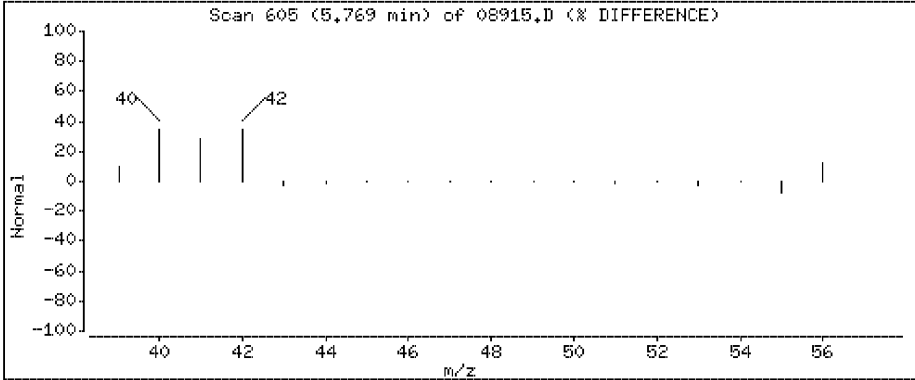
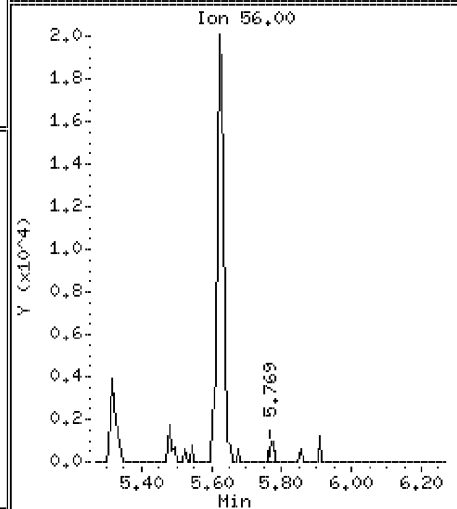
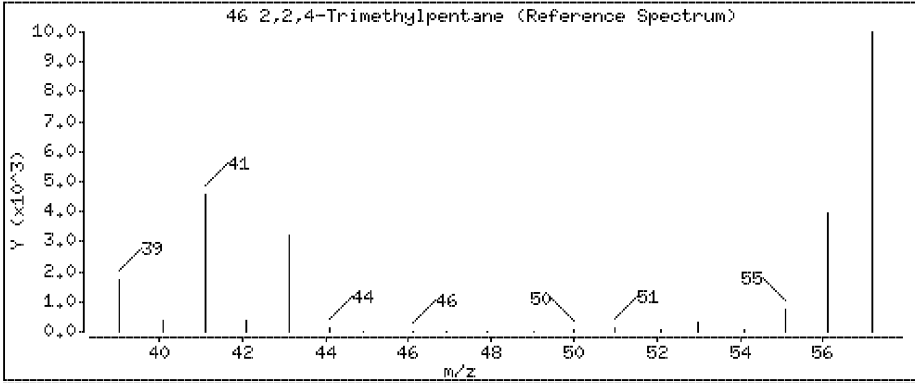
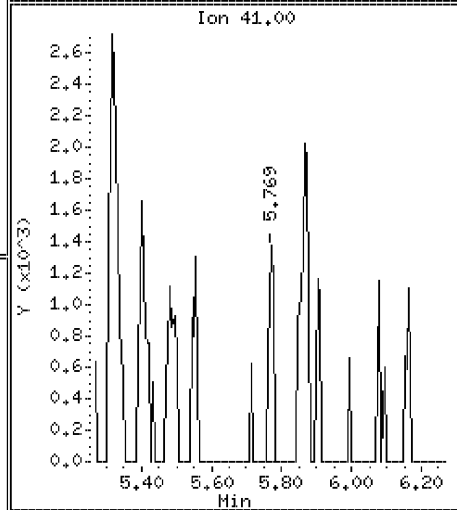
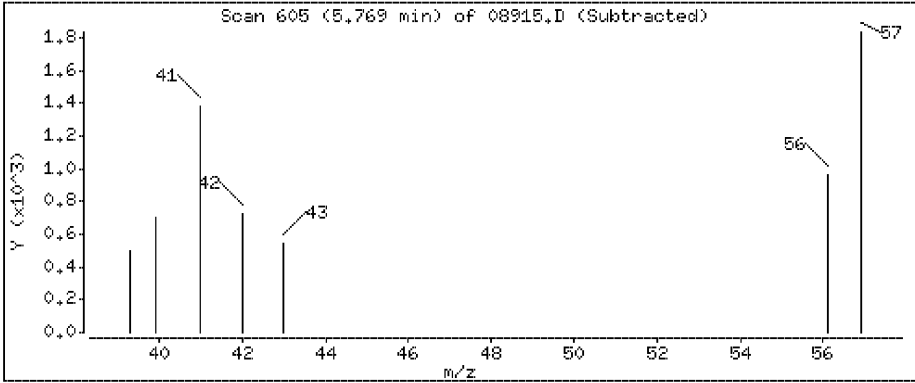
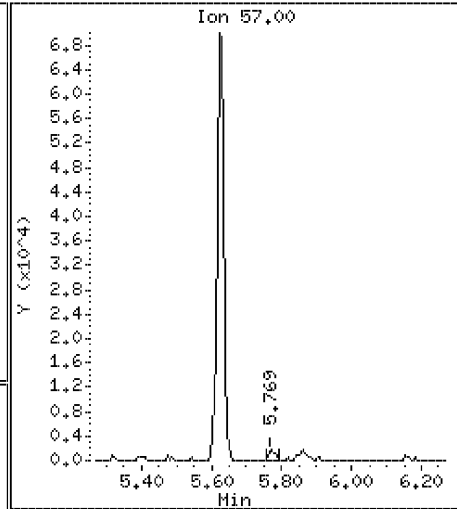
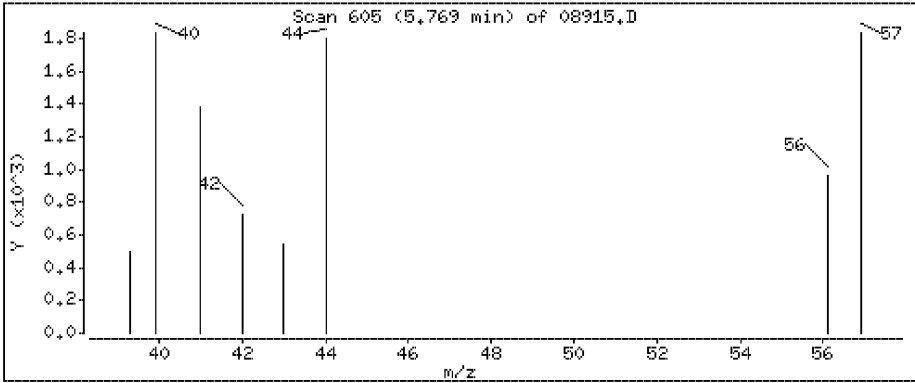
43 Cyclohexane

Concentration: 0.0314 ppbv



46 2,2,4-Trimethylpentane

Concentration: 0.0159 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08915.D

Date : 30-MAR-2019 13:24

Client ID:

Instrument: 10airI.i

Sample Info:

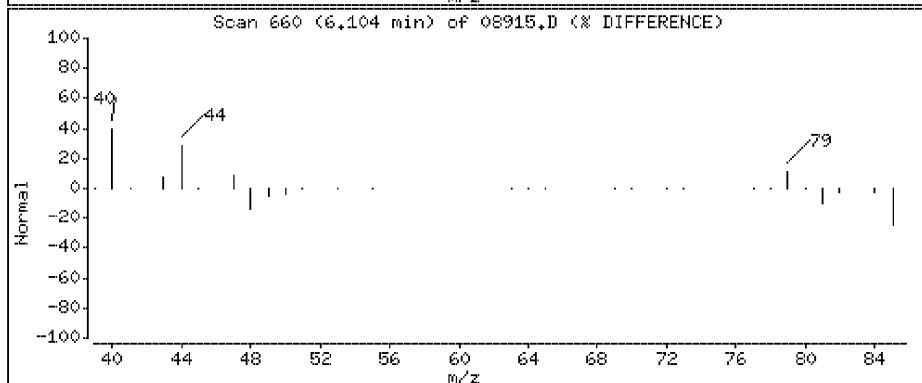
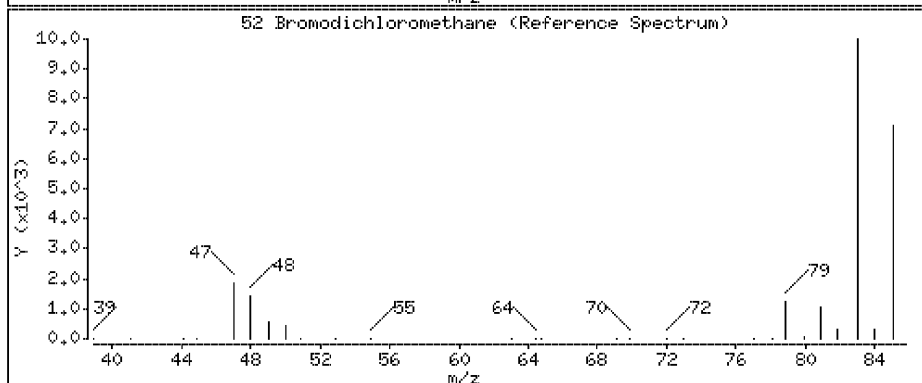
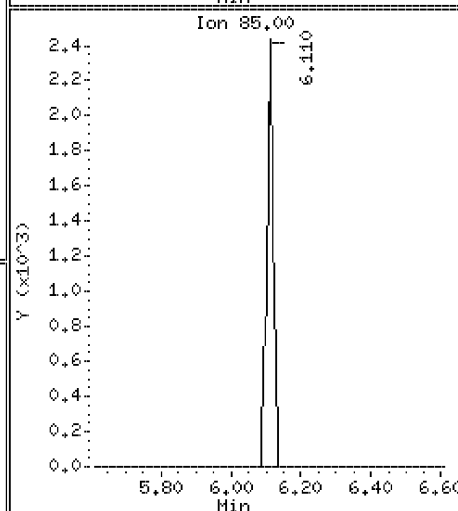
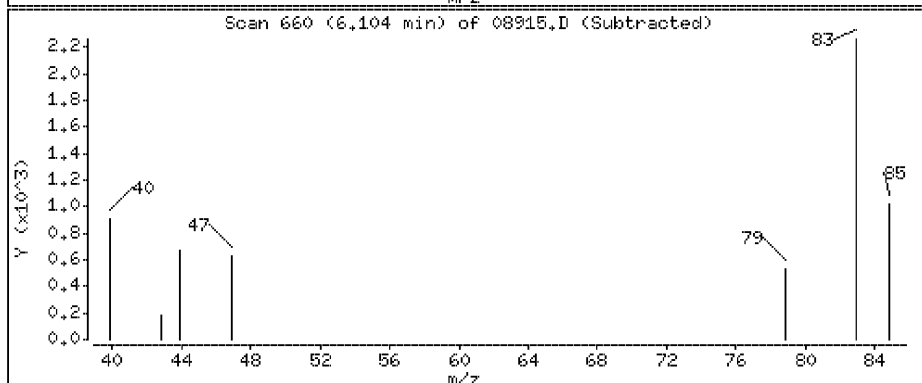
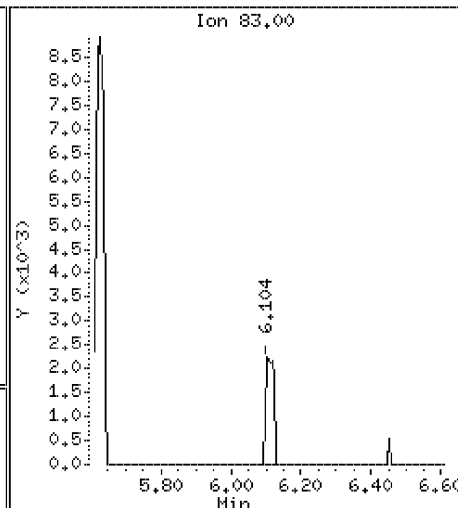
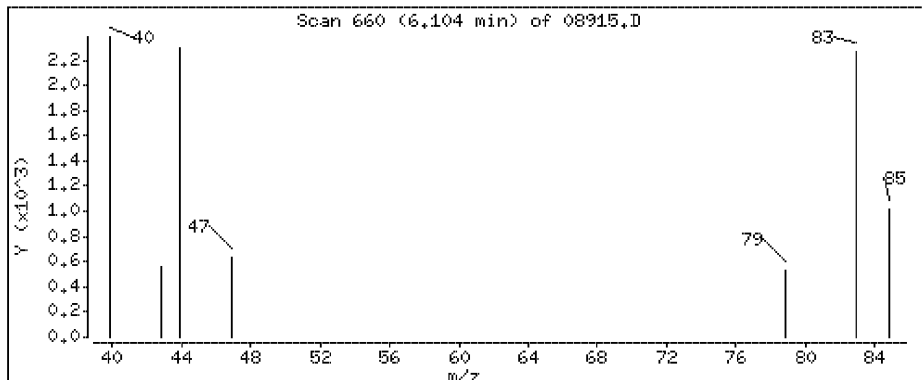
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

52 Bromodichloromethane

Concentration: 0.0622 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08915.D

Date : 30-MAR-2019 13:24

Client ID:

Instrument: 10airI.i

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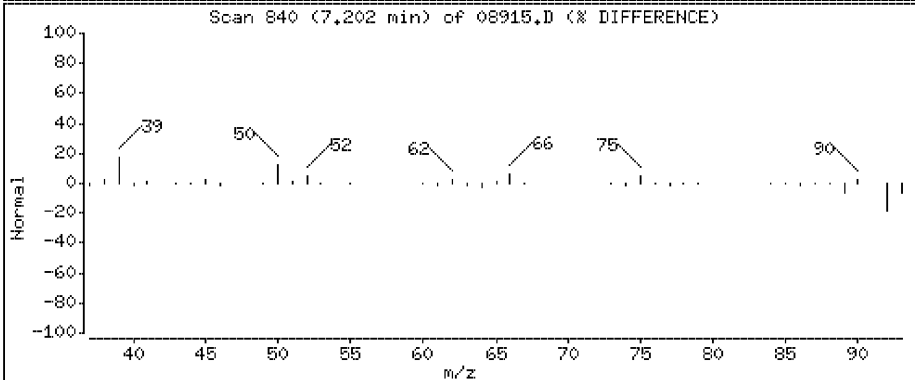
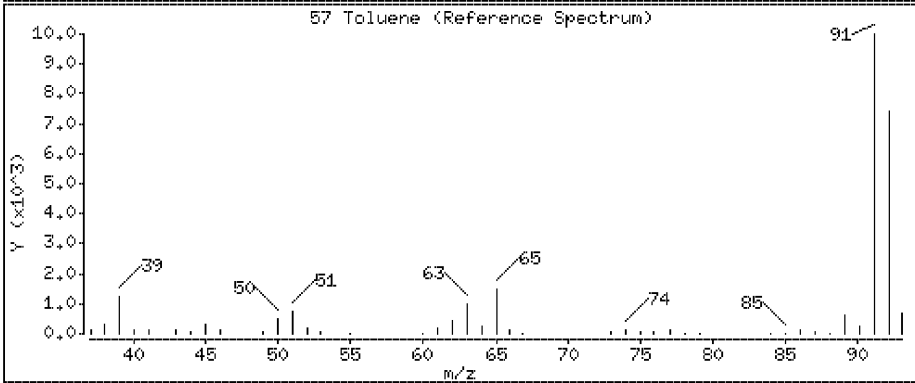
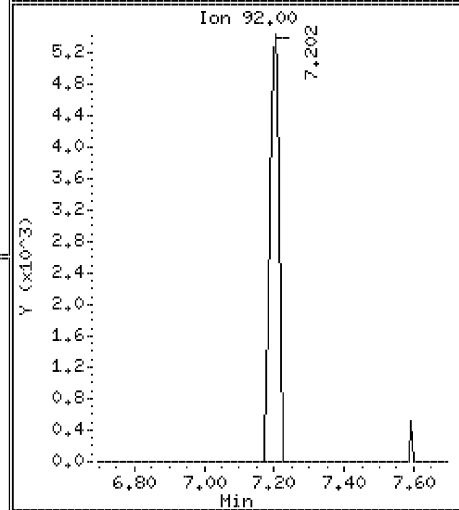
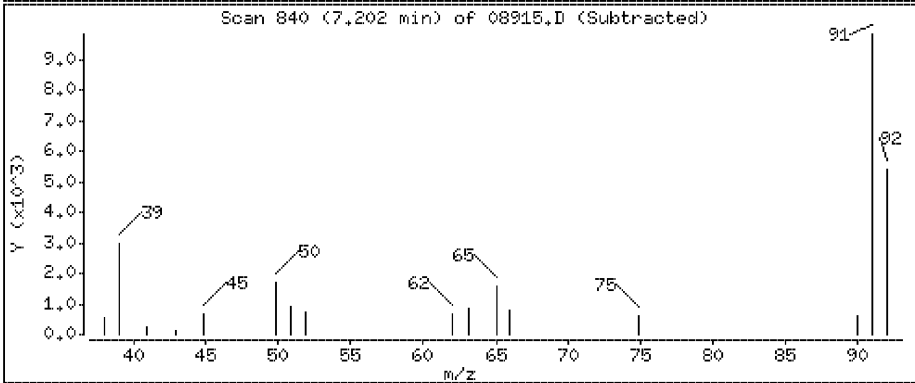
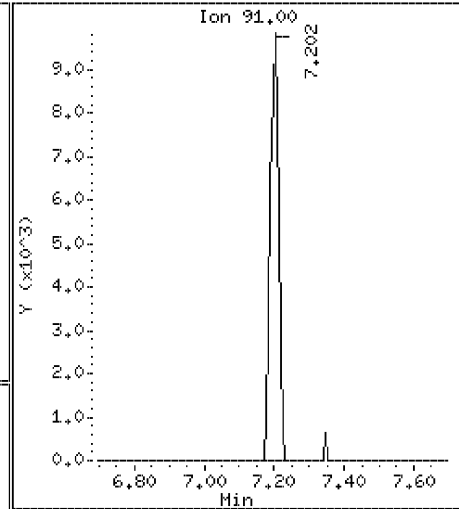
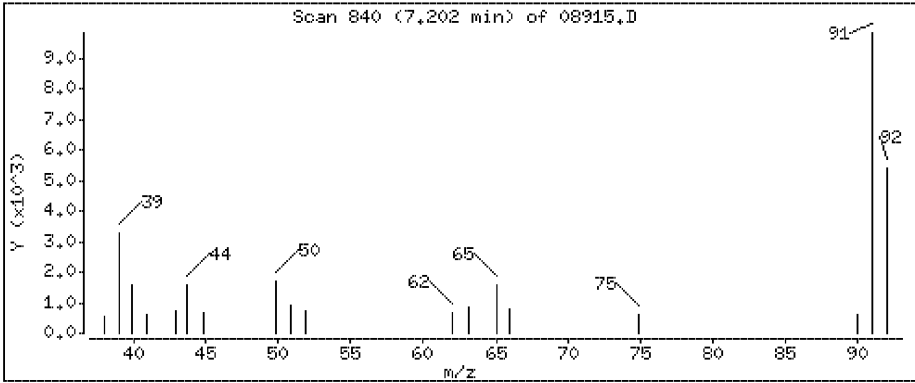
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

57 Toluene

Concentration: 0.202 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08915.D

Date : 30-MAR-2019 13:24

Client ID:

Instrument: 10airI.i

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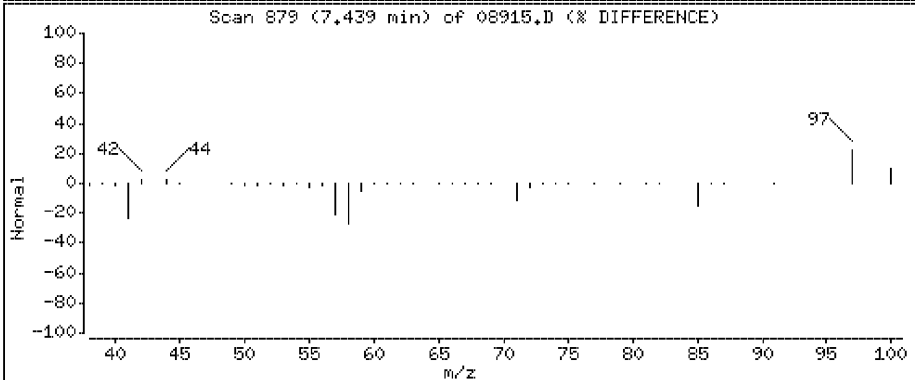
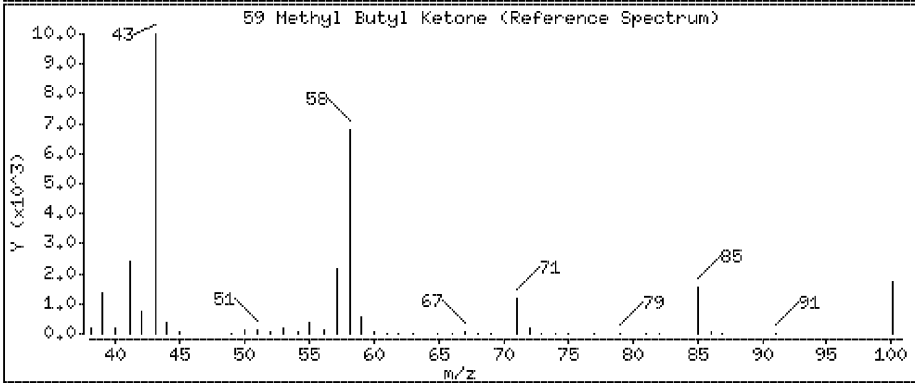
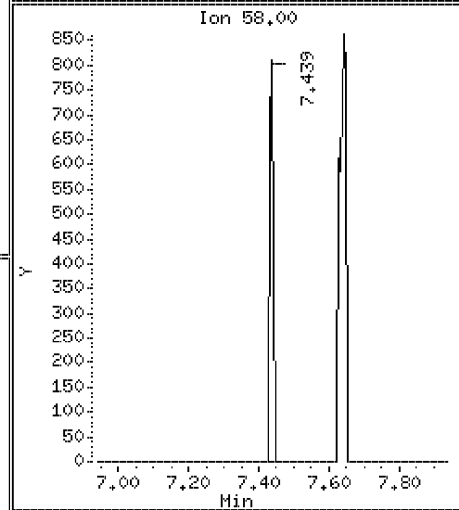
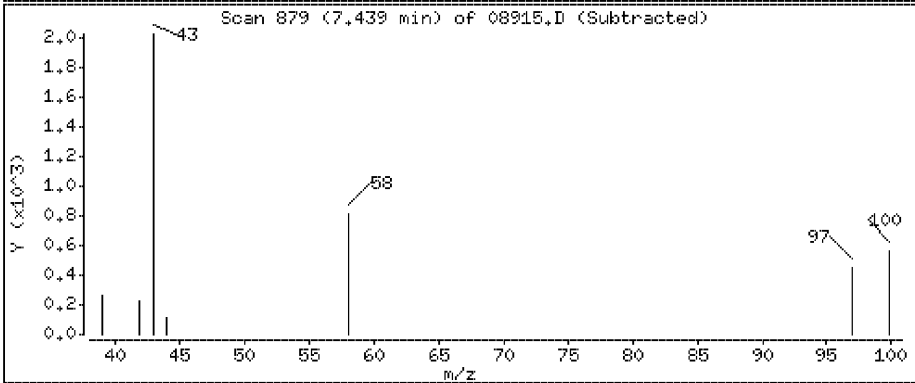
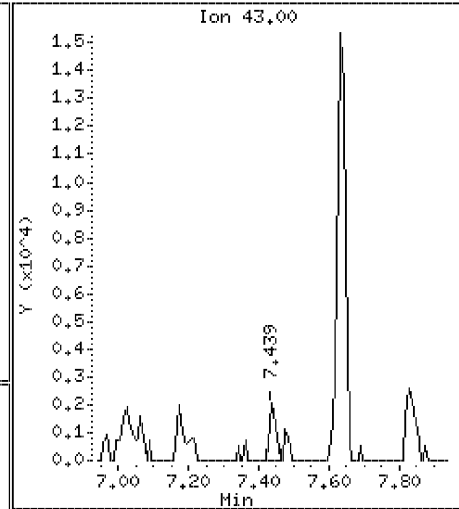
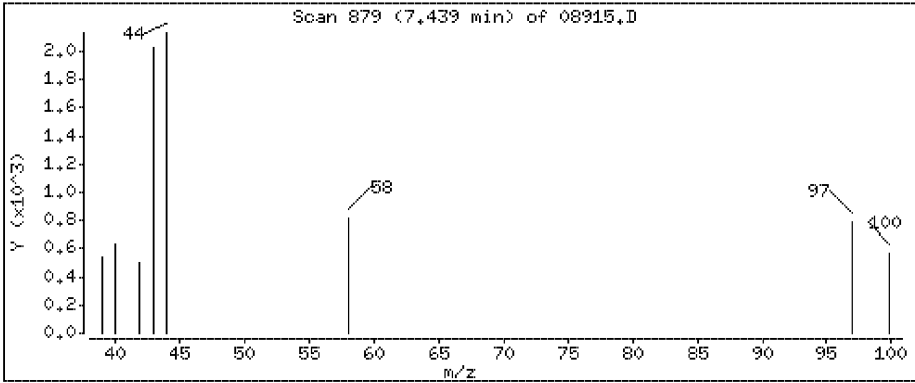
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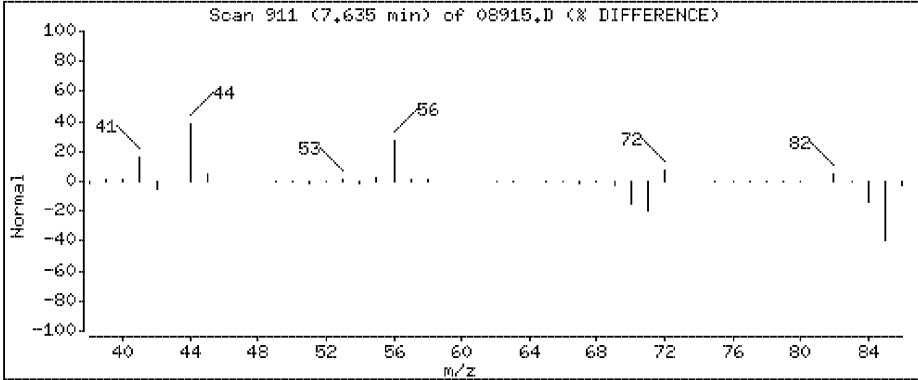
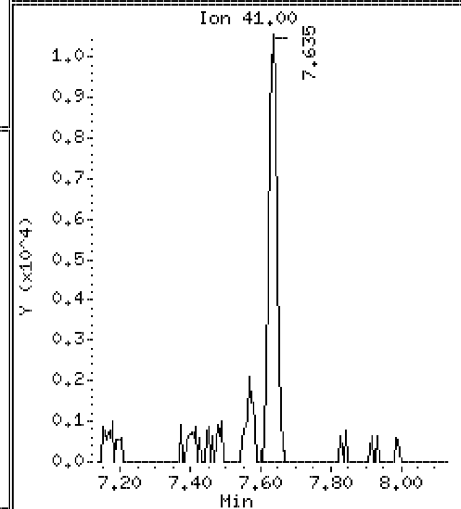
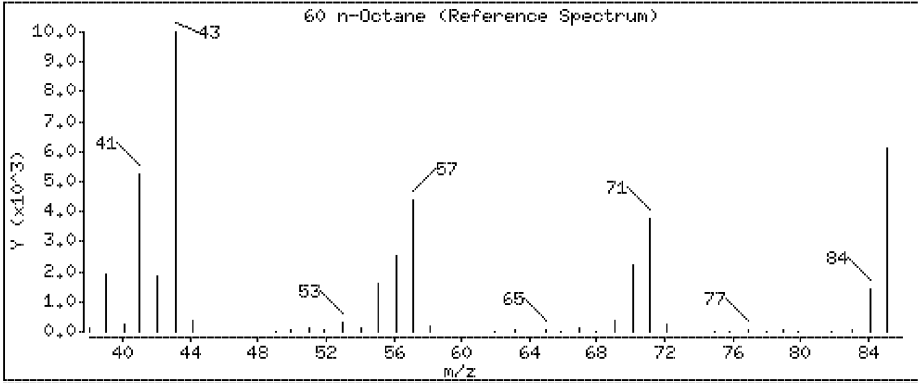
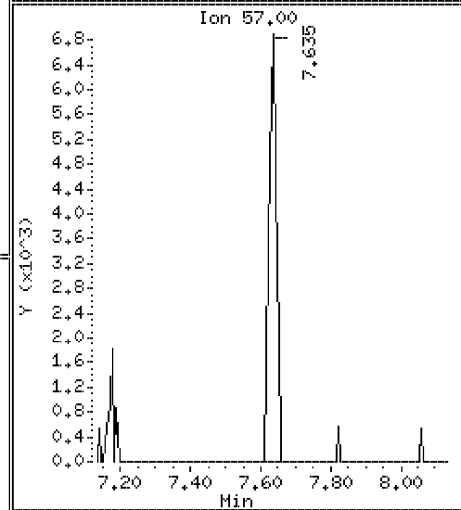
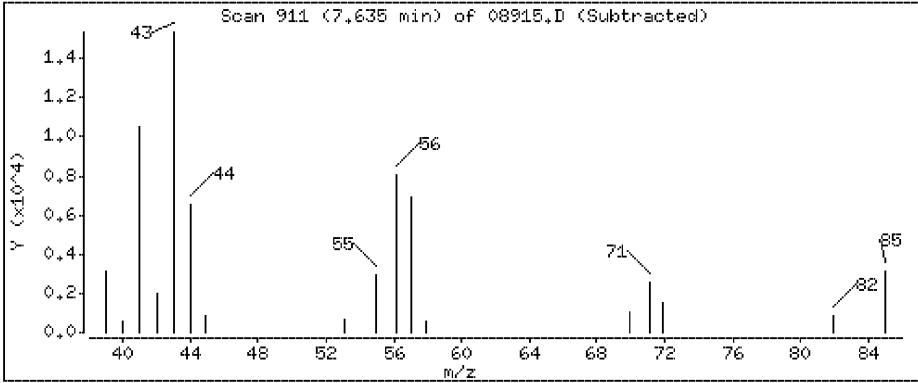
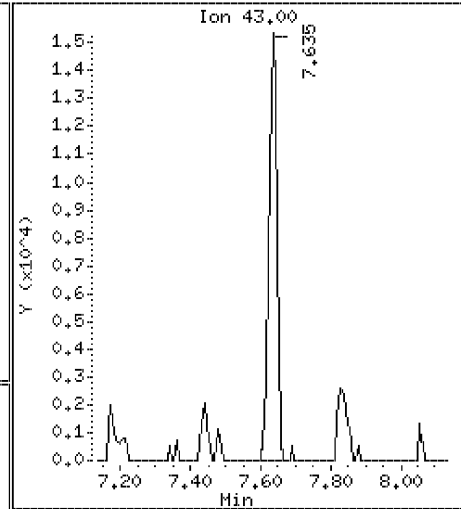
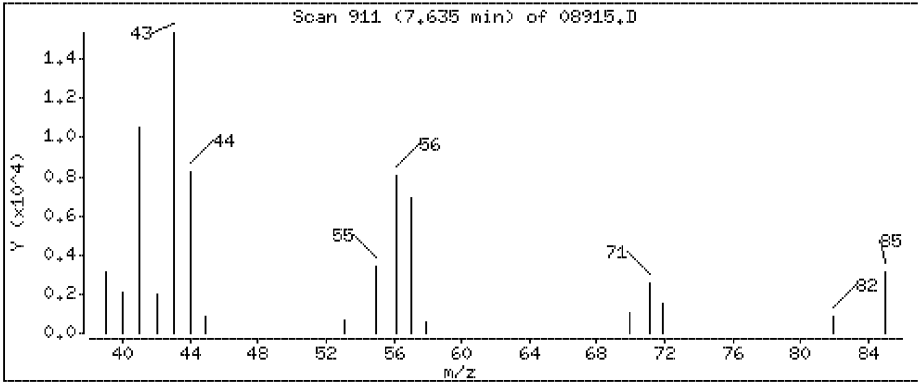
Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

59 Methyl Butyl Ketone

Concentration: 0.0325 ppbv





Data File: \\192.168.10.12\chem\10airI,i\033019,b\08915.D

Date : 30-MAR-2019 13:24

Client ID:

Instrument: 10airI.i

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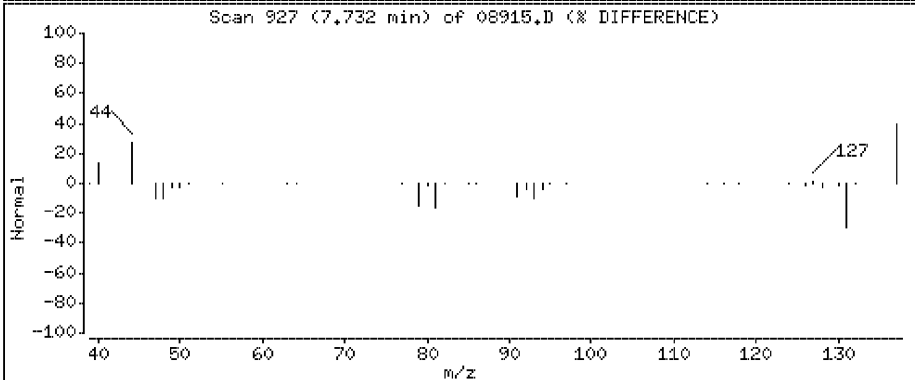
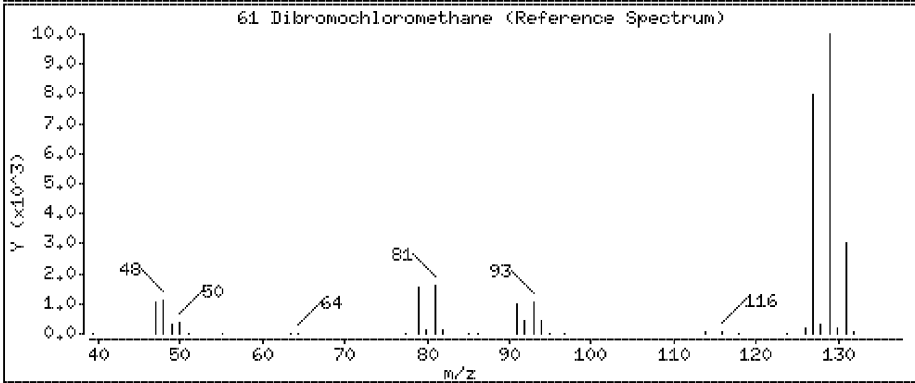
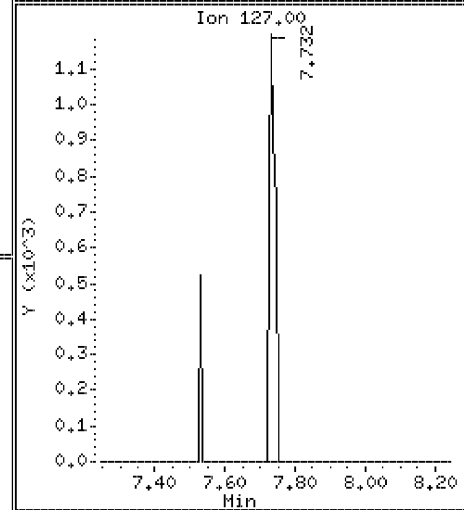
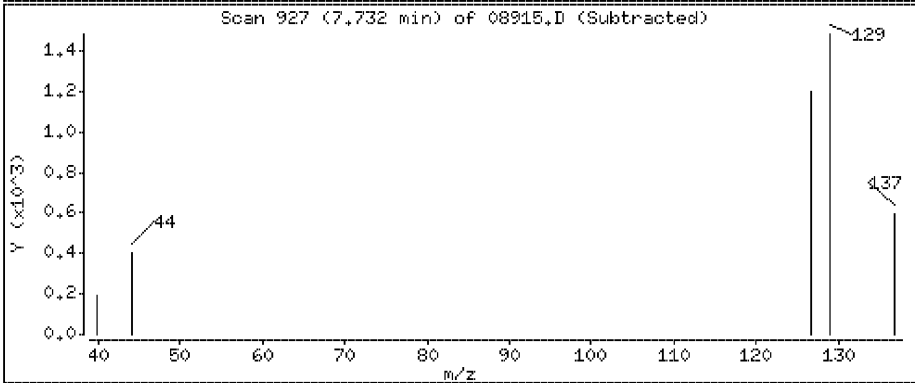
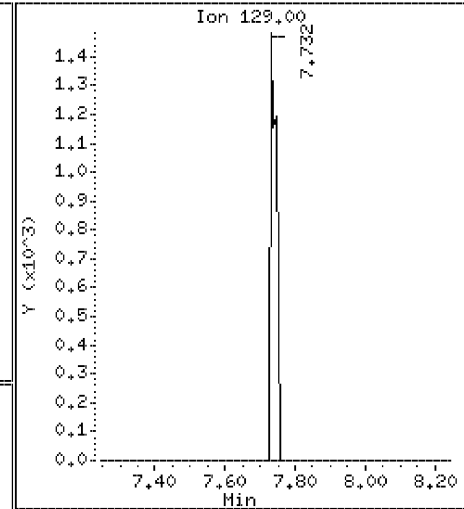
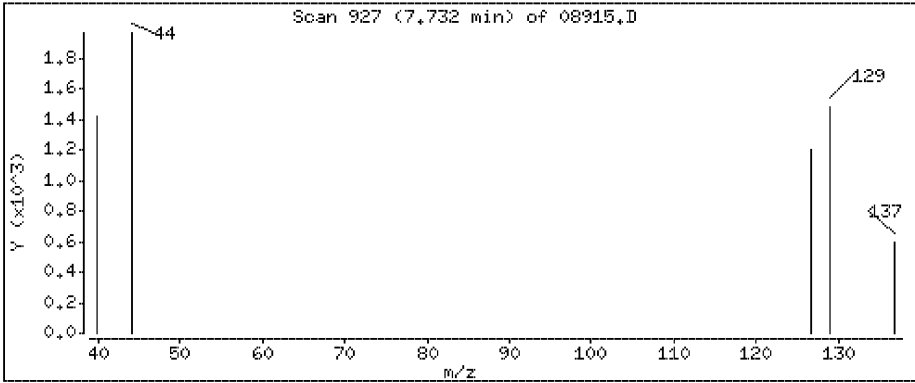
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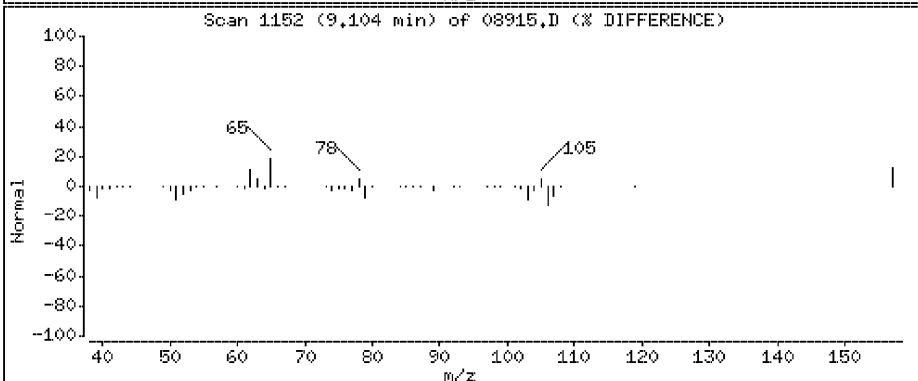
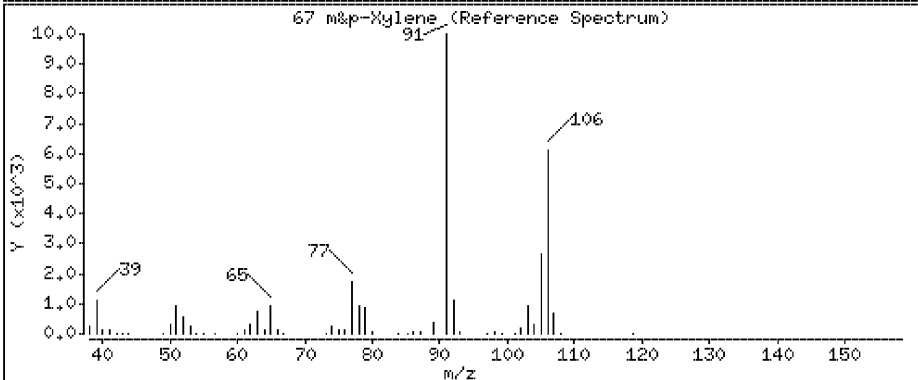
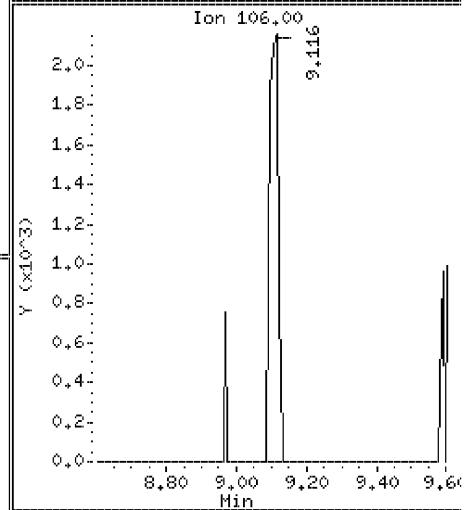
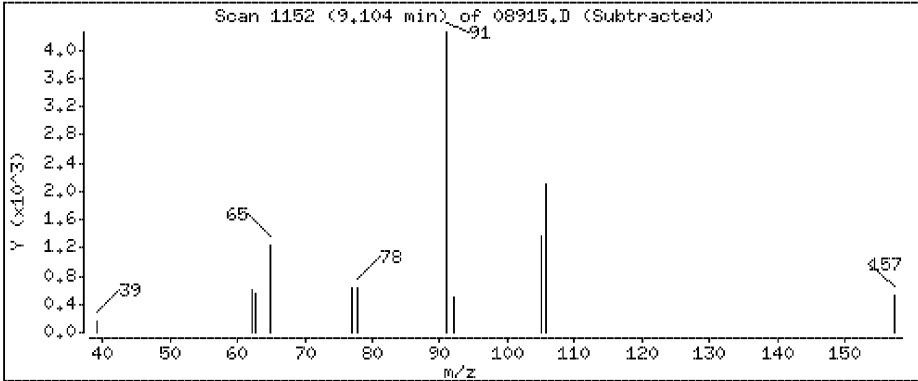
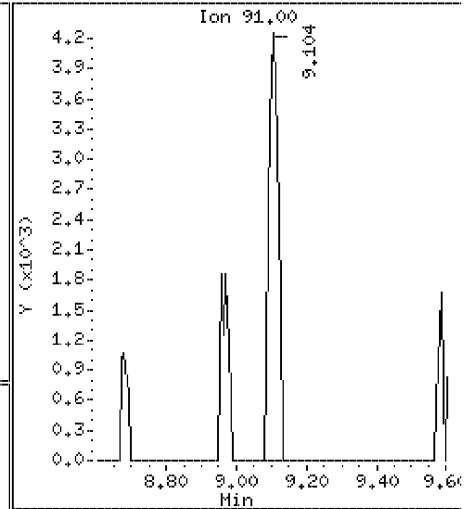
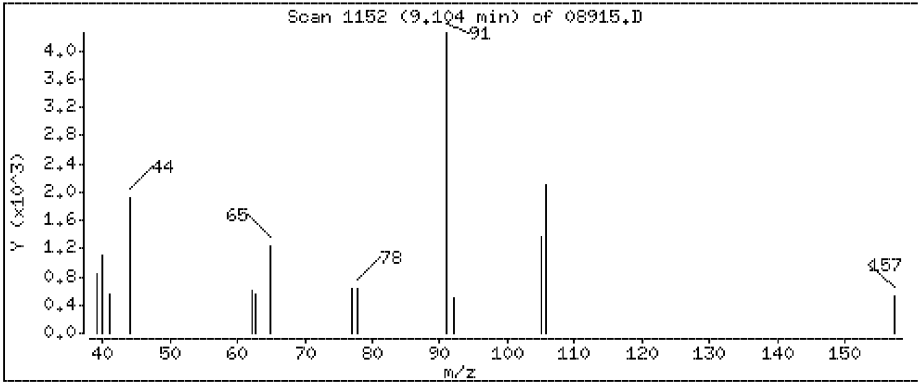
Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

61 Dibromochloromethane

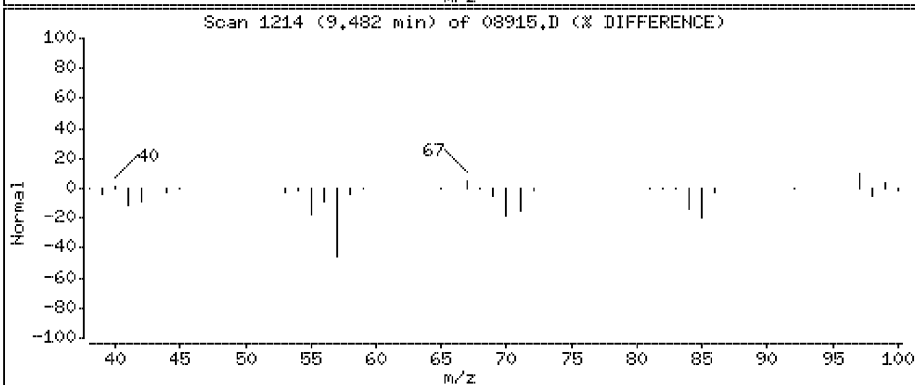
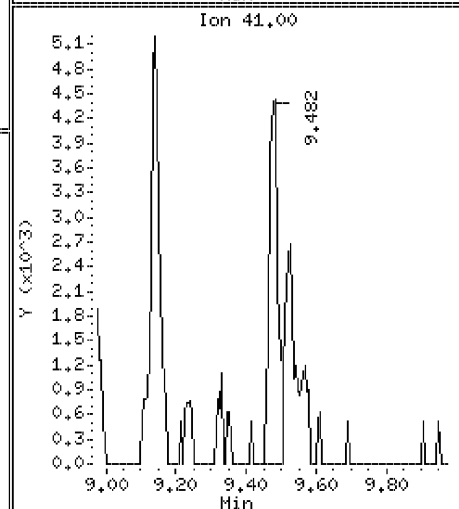
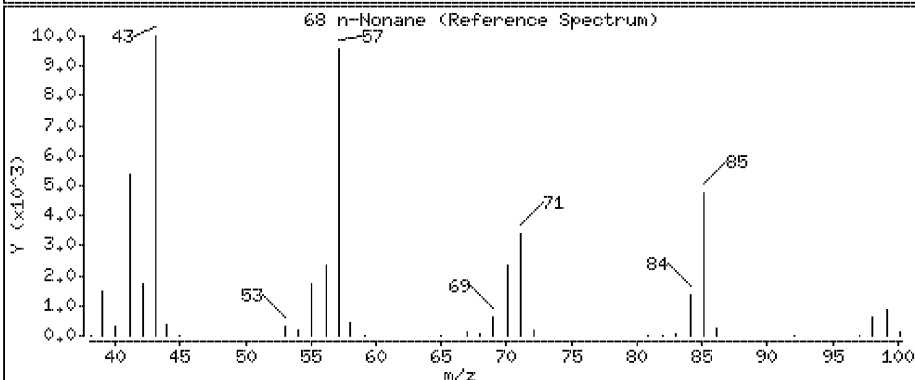
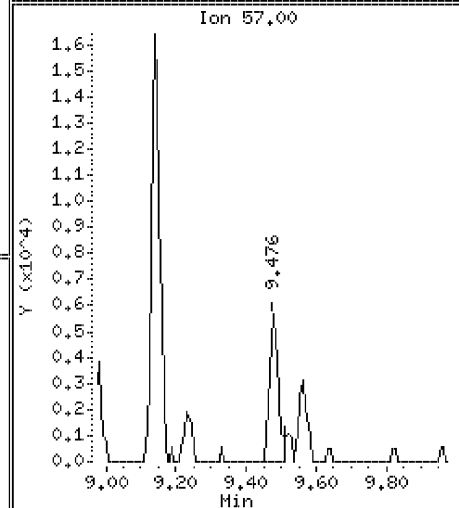
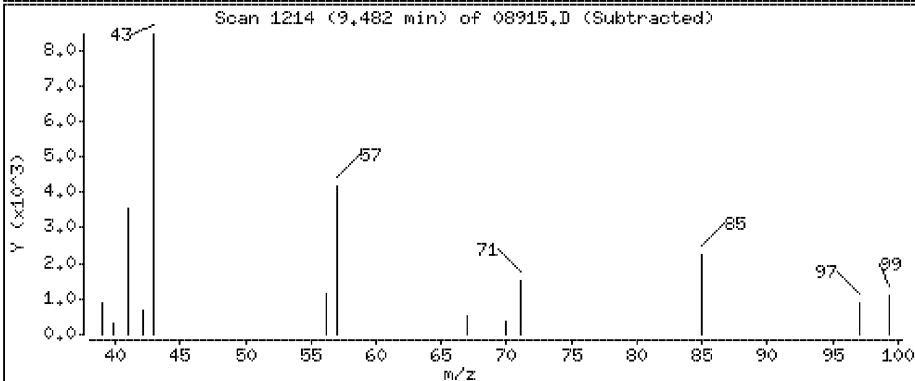
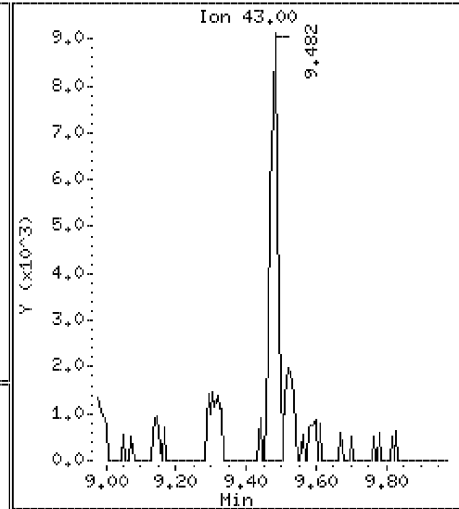
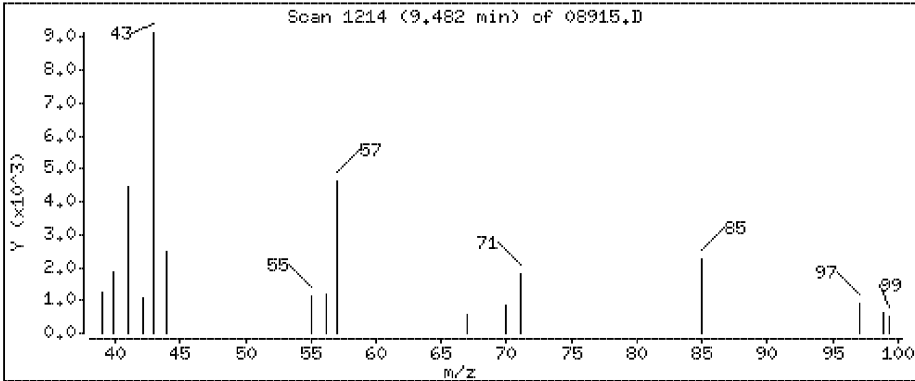
Concentration: 0.0408 ppbv





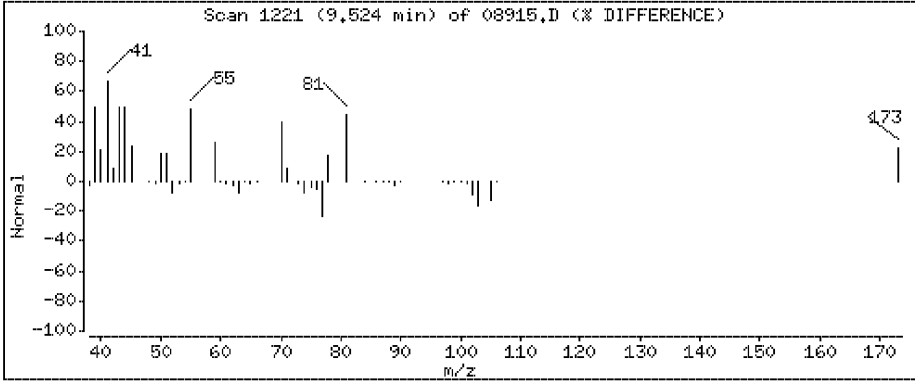
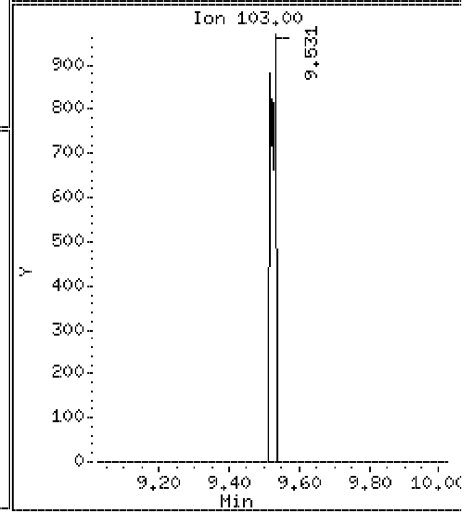
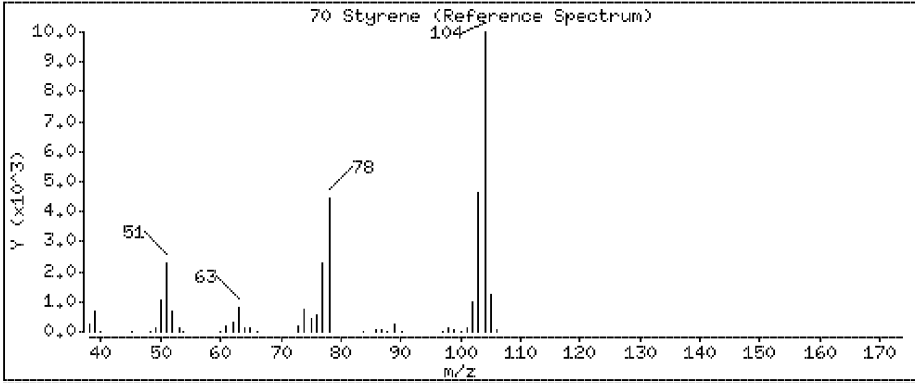
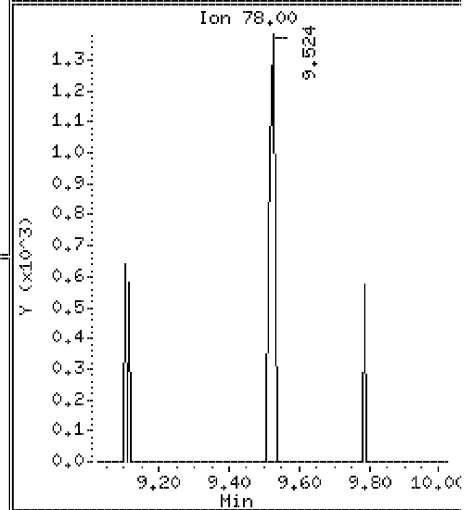
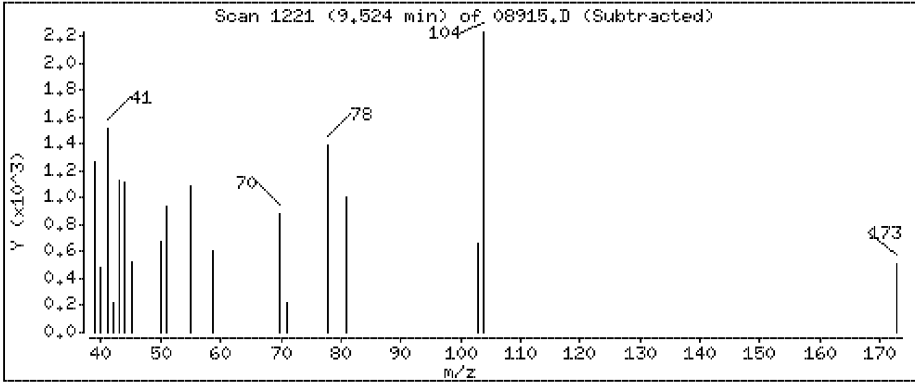
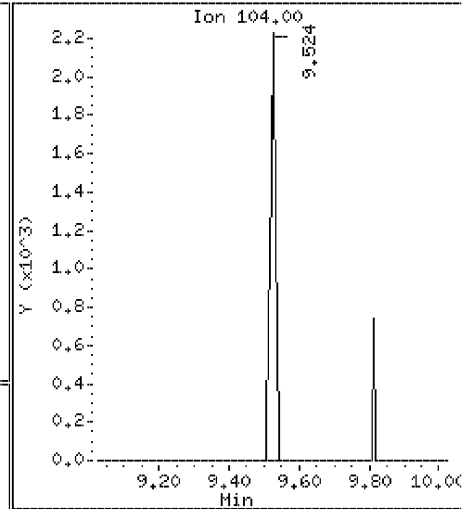
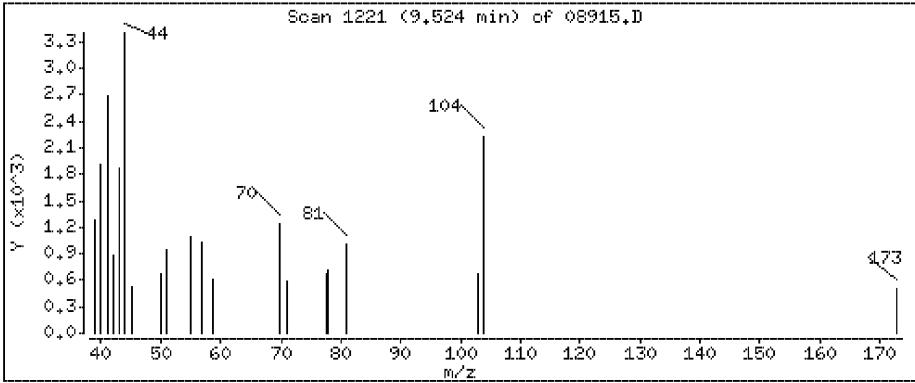
68 n-Nonane

Concentration: 0.172 ppbv



70 Styrene

Concentration: 0.0396 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08915.D

Date : 30-MAR-2019 13:24

Client ID:

Instrument: 10airI.i

Sample Info:

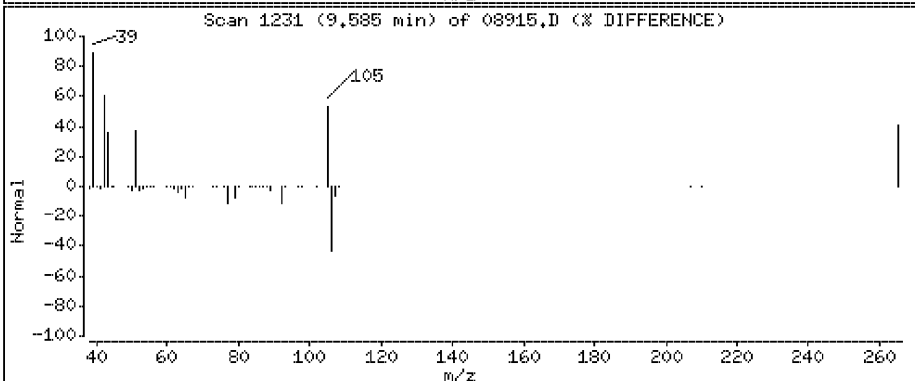
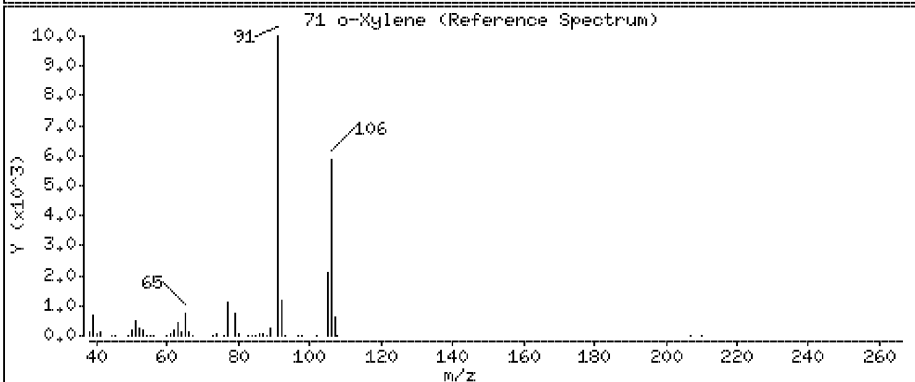
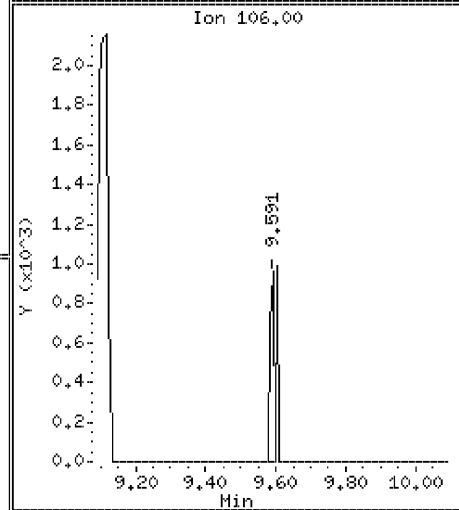
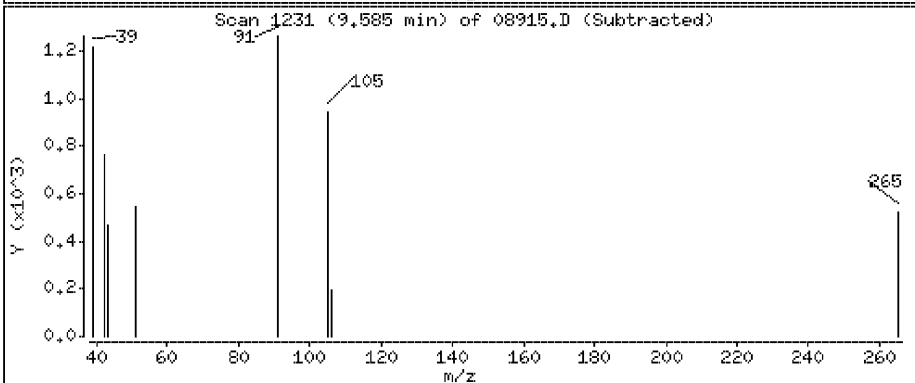
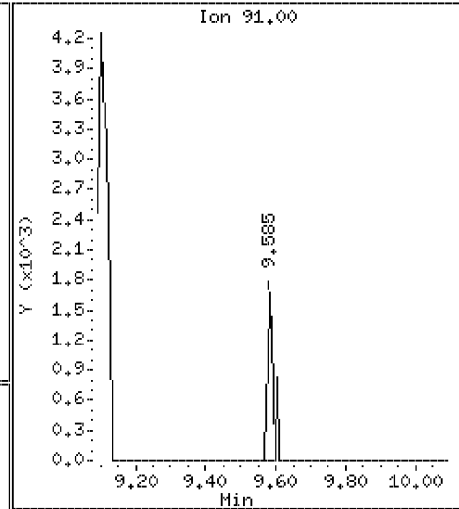
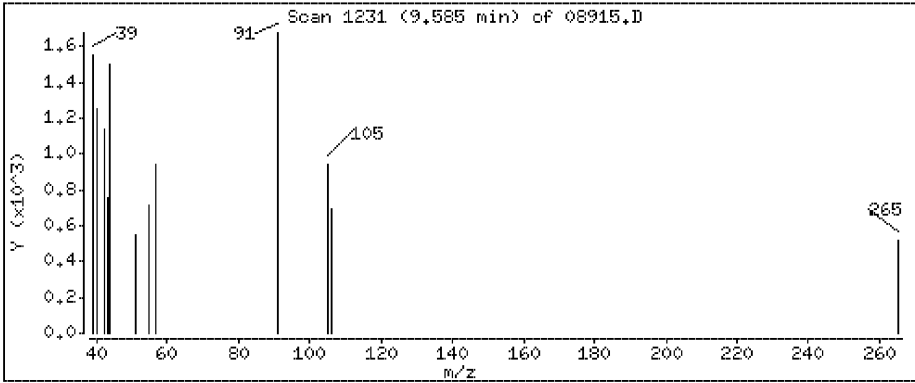
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

71 o-Xylene

Concentration: 0.0181 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08915.D

Date : 30-MAR-2019 13:24

Client ID:

Instrument: 10airI.i

Sample Info:

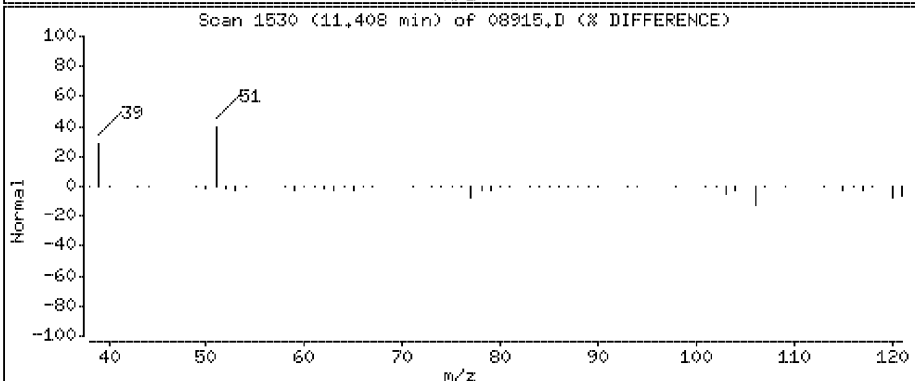
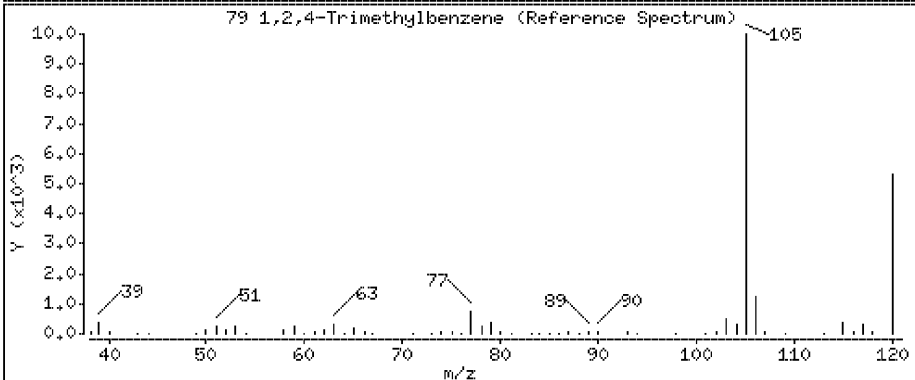
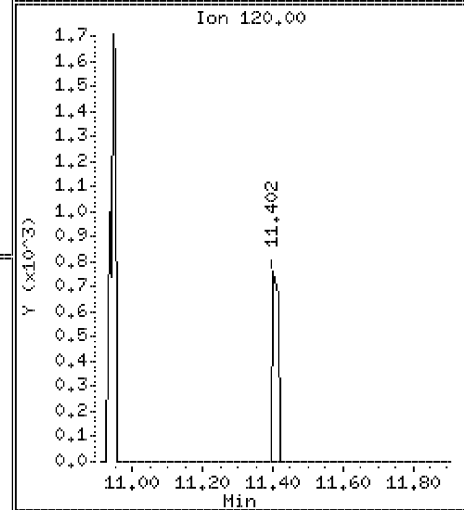
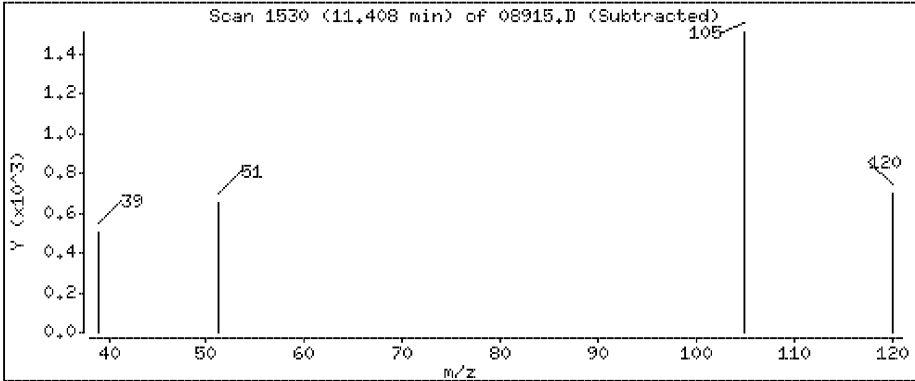
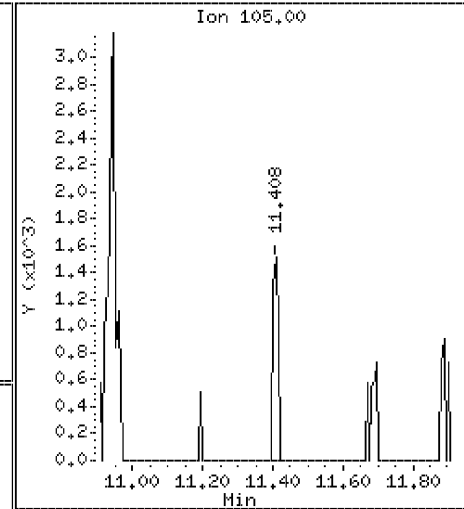
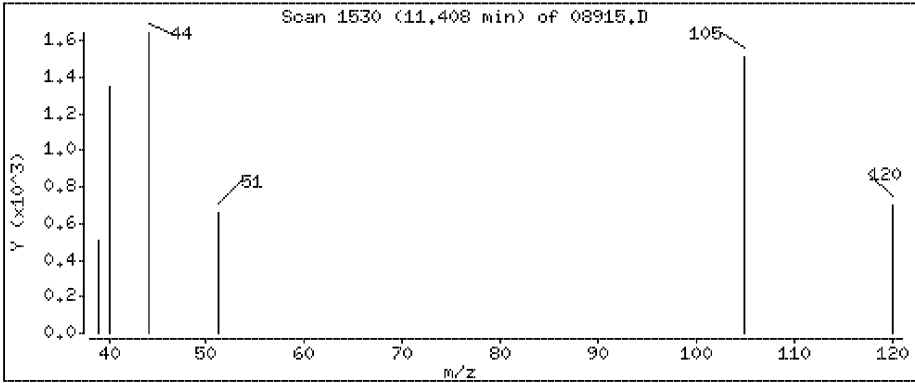
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

79 1,2,4-Trimethylbenzene

Concentration: 0.0164 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08915.D

Date : 30-MAR-2019 13:24

Client ID:

Instrument: 10airI.i

Sample Info:

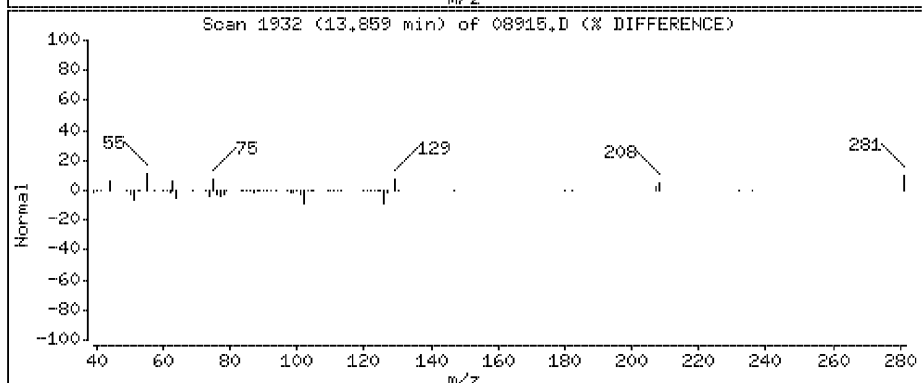
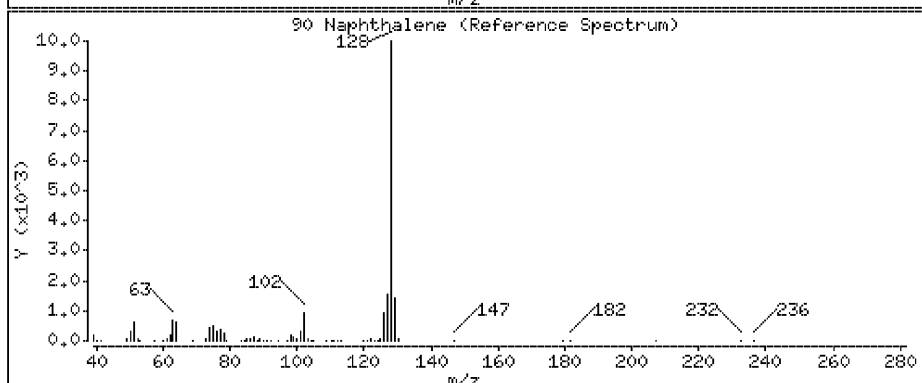
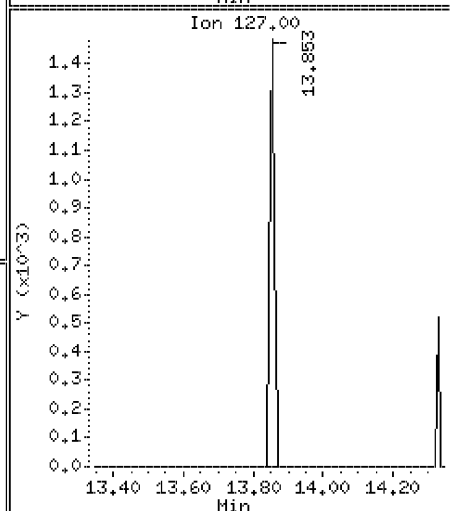
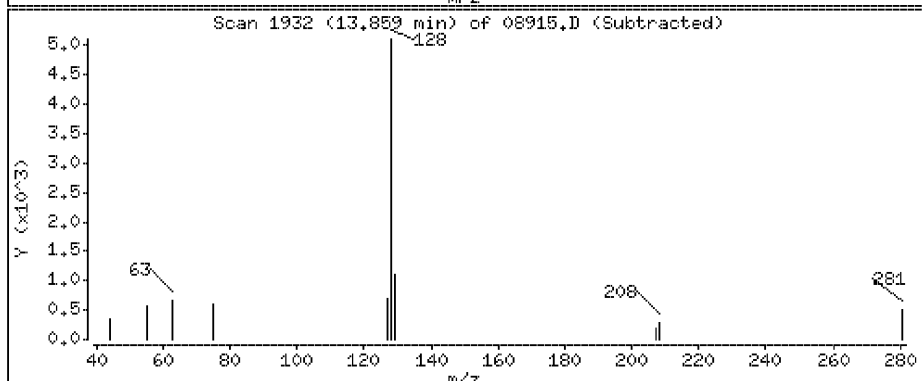
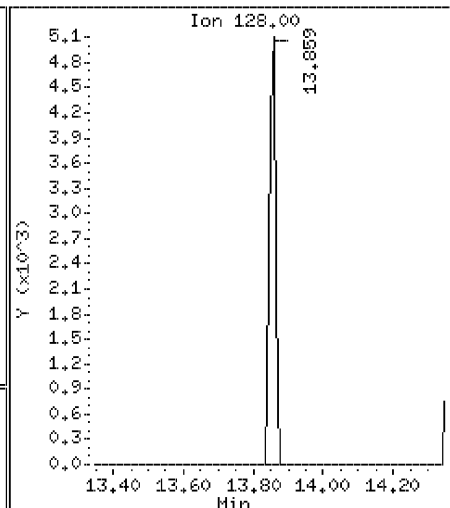
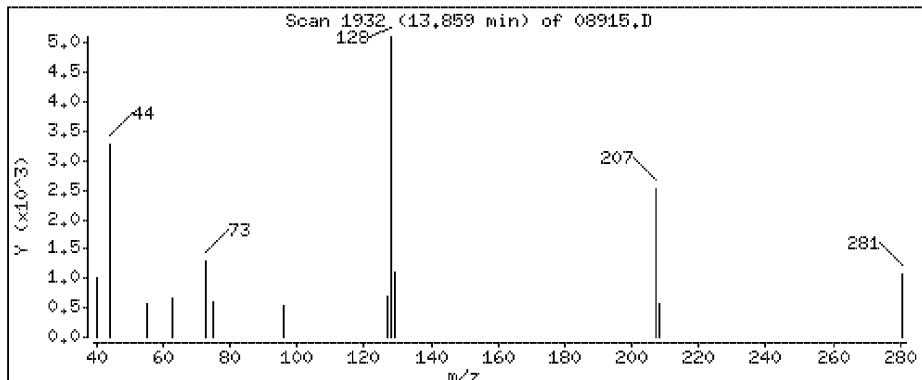
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

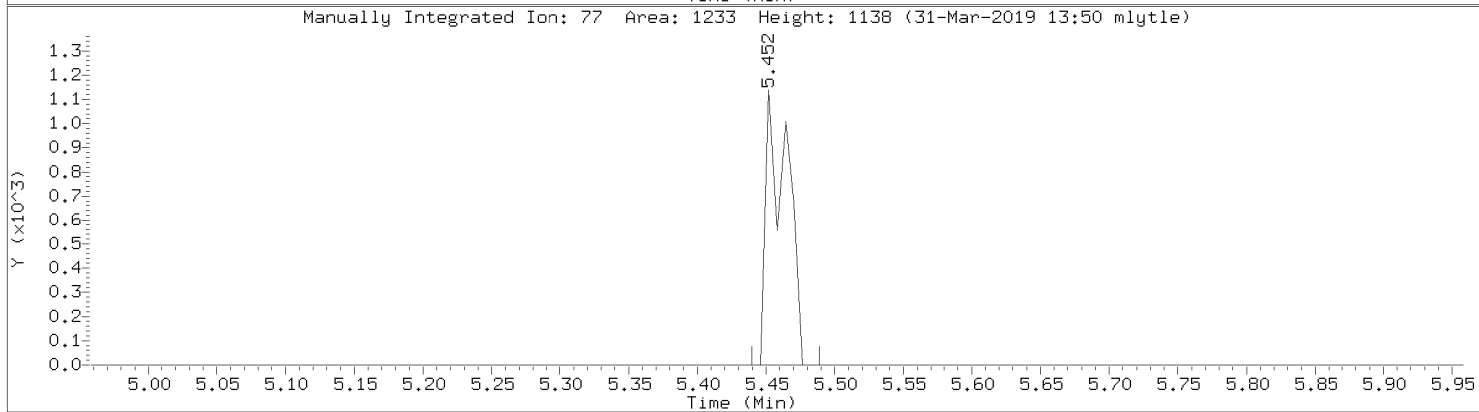
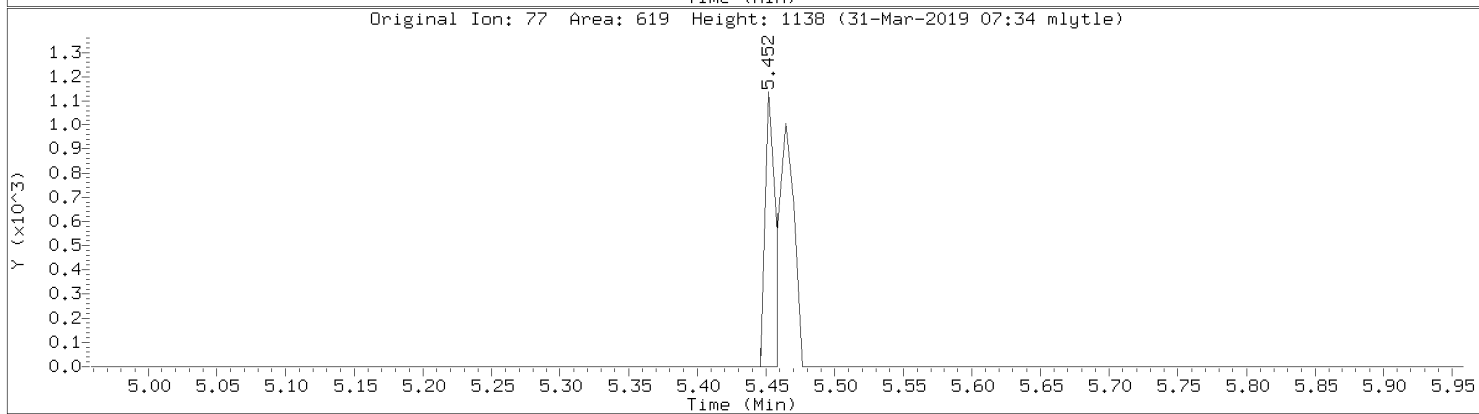
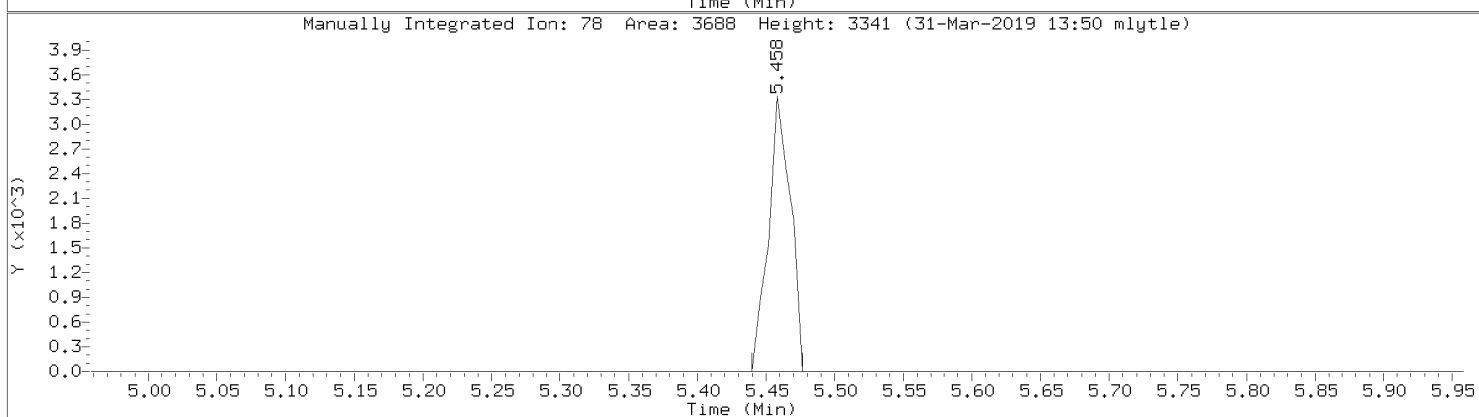
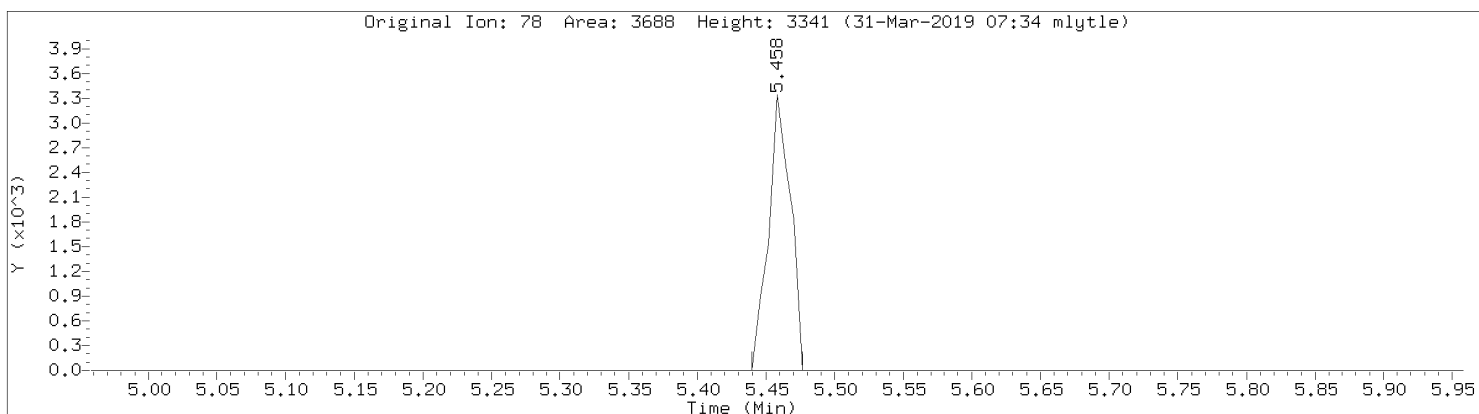
90 Naphthalene

Concentration: 0.106 ppbv

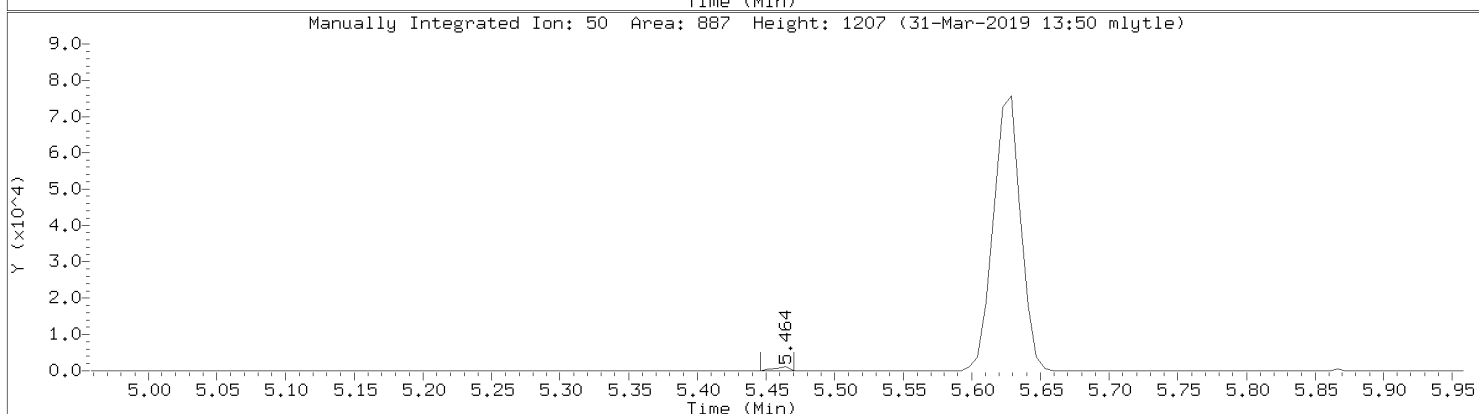
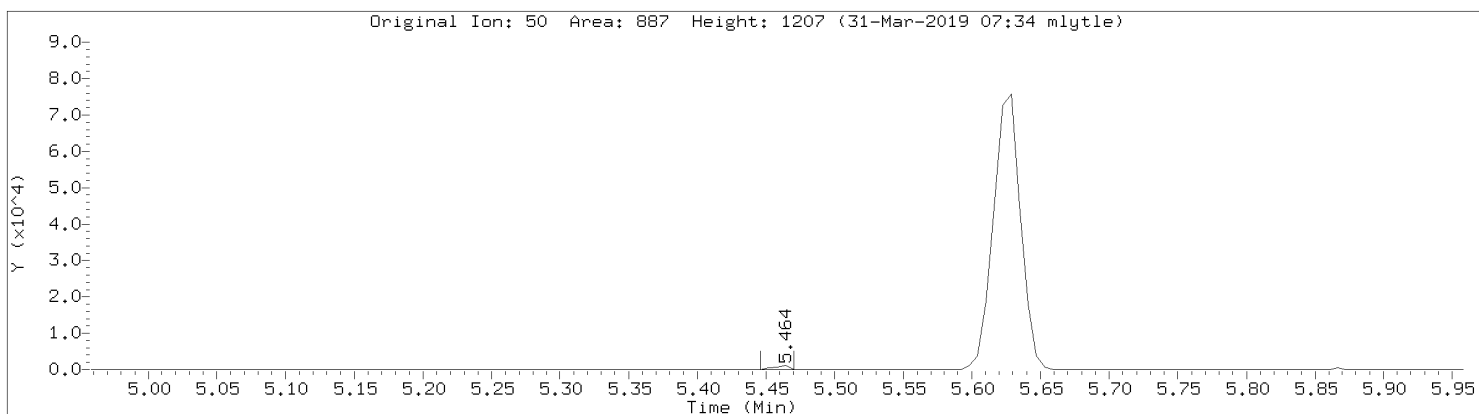


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08915.D
Injection Date: 30-MAR-2019 13:24
Instrument: 10airI.i
Lab Sample ID: 10468767001

Compound: Benzene
CAS Number: 71-43-2

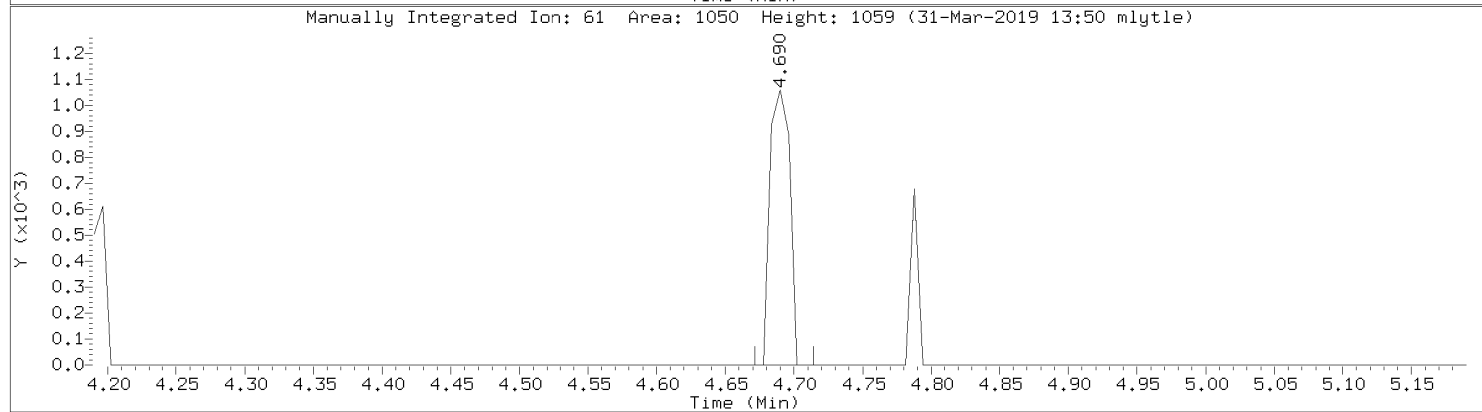
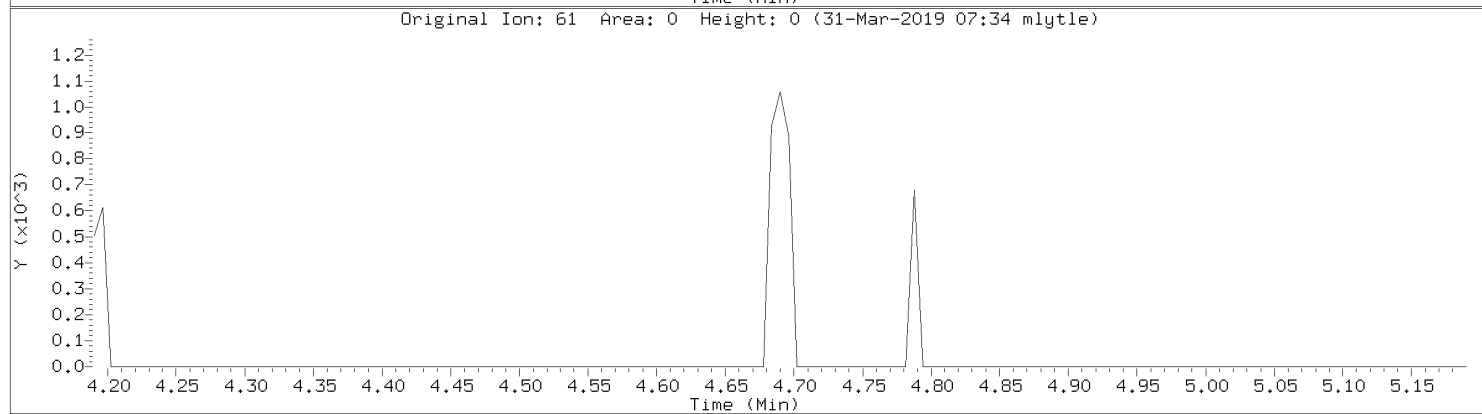
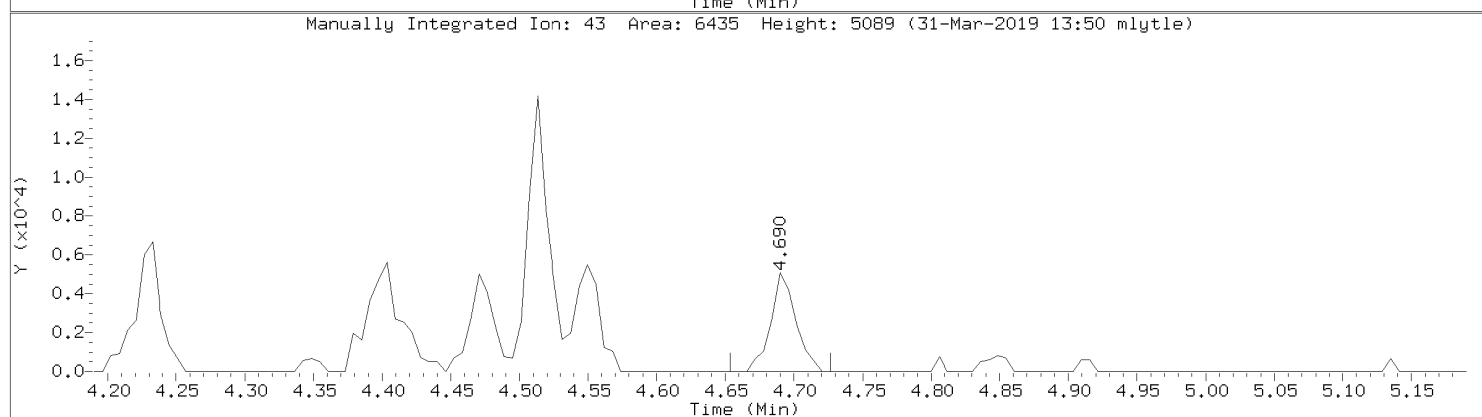
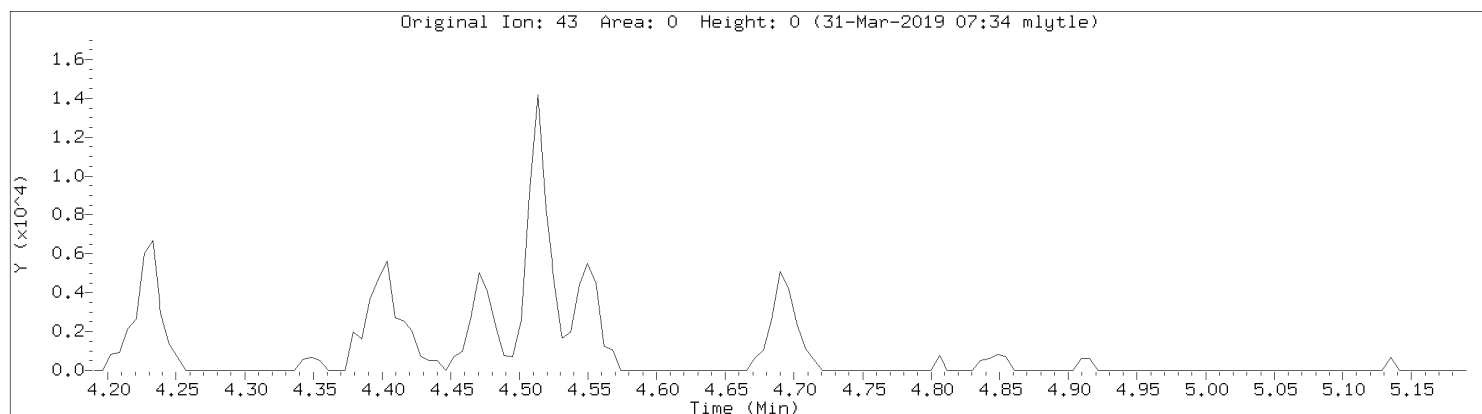


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08915.D
Injection Date: 30-MAR-2019 13:24
Instrument: 10airI.i
Lab Sample ID: 10468767001

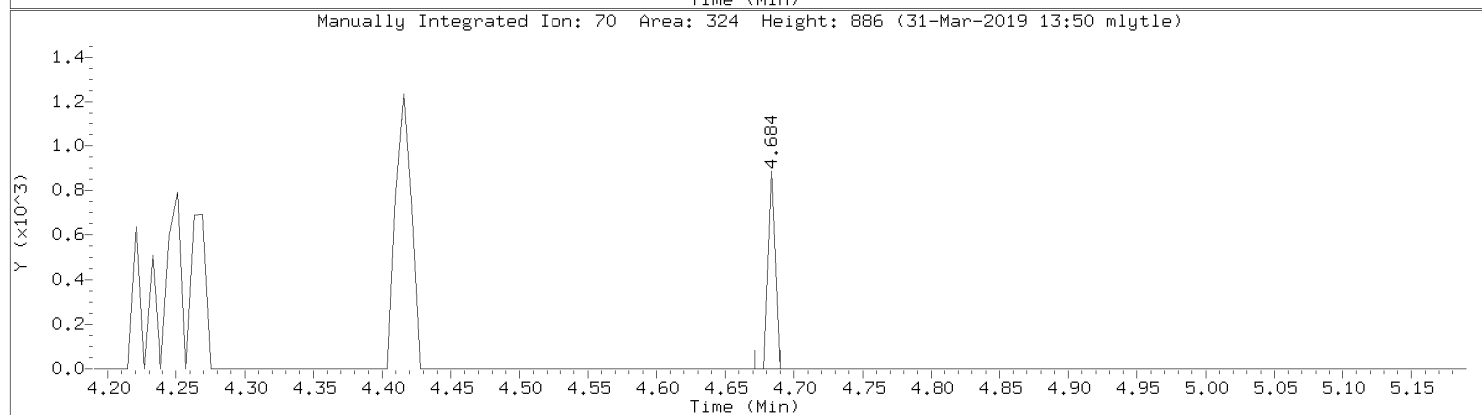
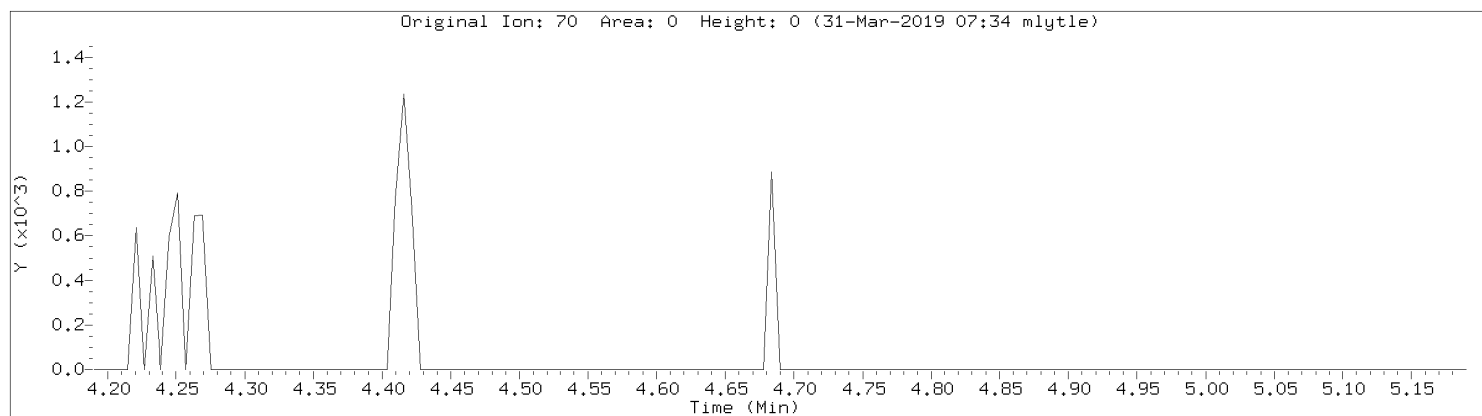


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08915.D
Injection Date: 30-MAR-2019 13:24
Instrument: 10airI.i
Lab Sample ID: 10468767001

Compound: Ethyl Acetate
CAS Number: 141-78-6



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08915.D
Injection Date: 30-MAR-2019 13:24
Instrument: 10airI.i
Lab Sample ID: 10468767001



Data File: \\192.168.10.12\chem\10airH.i\033119.b\09029.D
 Report Date: 01-Apr-2019 10:20

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airH.i\033119.b\09029.D
 Lab Smp Id: 10468767003
 Inj Date : 31-MAR-2019 19:15
 Operator : MJL Inst ID: 10airH.i
 Smp Info :
 Misc Info : 33312
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airH.i\033119.b\TO15_084-19.m
 Meth Date : 01-Apr-2019 10:18 mlytle Quant Type: ISTD
 Cal Date : 25-MAR-2019 10:53 Cal File: 08412.D
 Als bottle: 29
 Dil Factor: 93.00000
 Integrator: HP RTE Compound Sublist: 124TCB.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	93.000	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
26 Carbon Disulfide	76		3.922	3.916	(0.721)	284189	7.49492	697
37 Chloroform	83		4.675	4.671	(0.859)	251271	7.63669	710
* 45 1,4-Difluorobenzene	114		5.440	5.433	(1.000)	348473	10.0000	
57 Toluene	91		6.945	6.938	(1.277)	89451	1.84982	172
* 64 Chlorobenzene - d5	117		8.430	8.427	(1.000)	296436	10.0000	
76 1,3,5-Trimethylbenzene	105		10.691	10.687	(1.268)	15943	0.28966	26.9
79 1,2,4-Trimethylbenzene	105		11.186	11.179	(1.327)	31996	0.56973	53.0

Data File: \\192.168.10.12\chem\10airH.i\033119.b\09029.D
Report Date: 01-Apr-2019 10:20

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airH.i
Lab File ID: 09029.D
Lab Smp Id: 10468767003
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airH.i\033119.b\TO15_084-19.m
Misc Info: 33312

Calibration Date: 31-MAR-2019
Calibration Time: 07:42

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	451734	271040	632428	348473	-22.86
64 Chlorobenzene - d	397119	238271	555967	296436	-25.35

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.43	5.10	5.76	5.44	0.12
64 Chlorobenzene - d	8.43	8.10	8.76	8.43	0.04

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

Data File: \\192.168.10.12\chem\10airH.i\033119.b\09029.D

Date : 31-MAR-2019 19:15

Client ID:

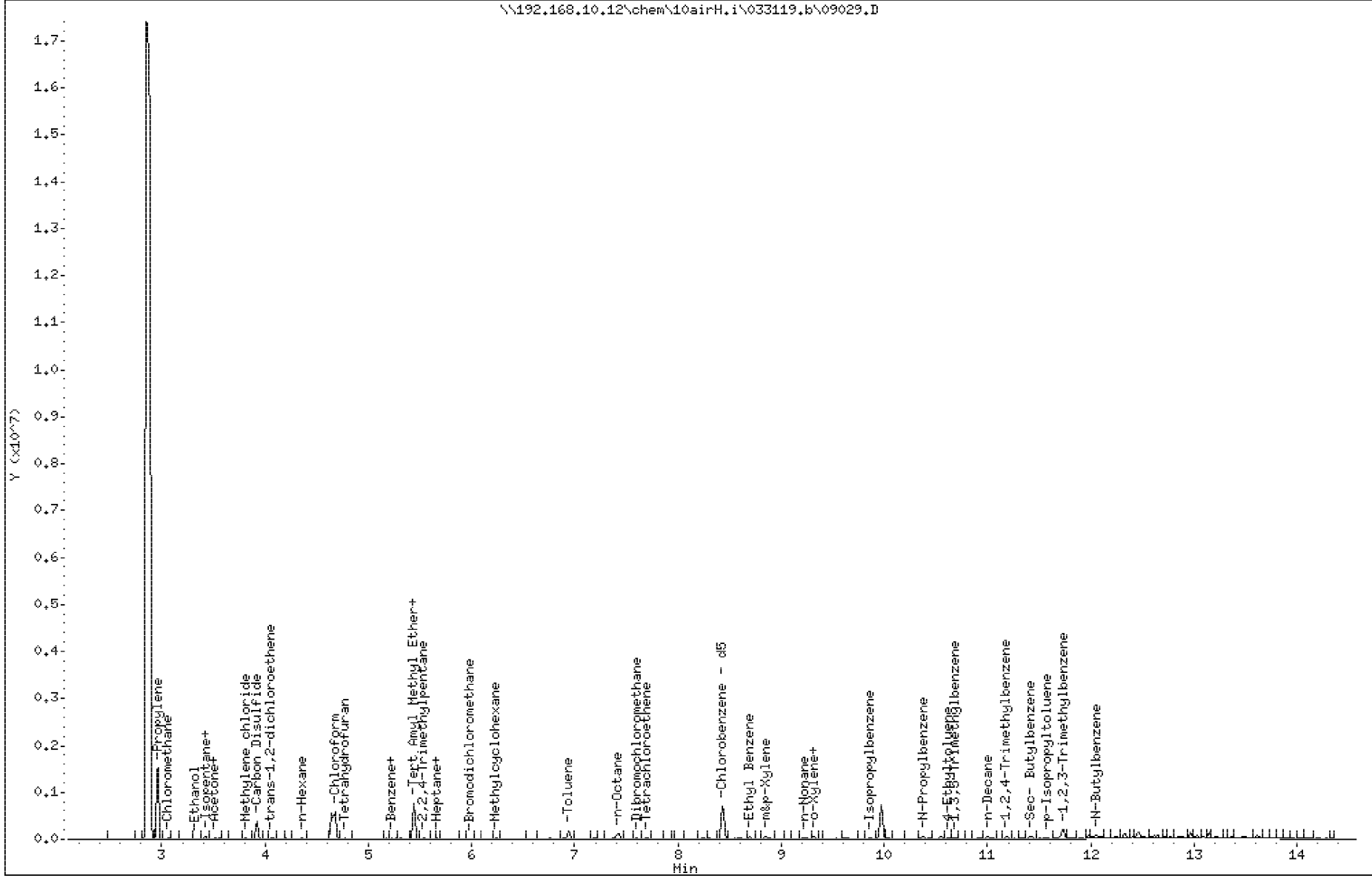
Sample Info:

Column phase: ZB-5MSplus SN338857

Instrument: 10airH.i

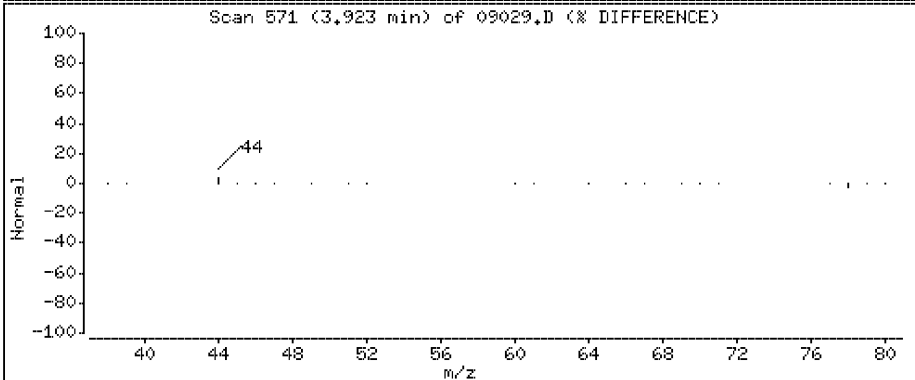
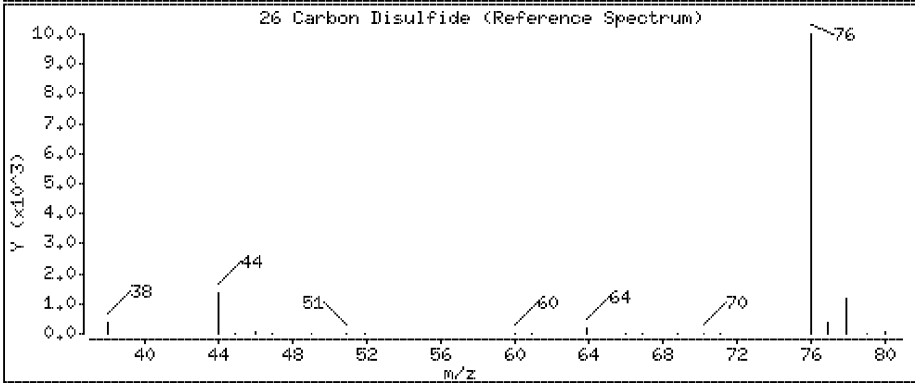
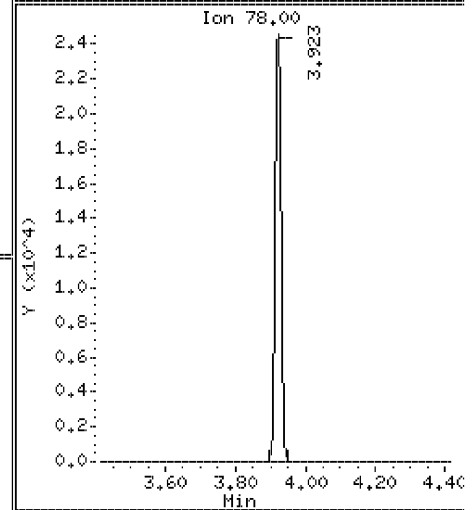
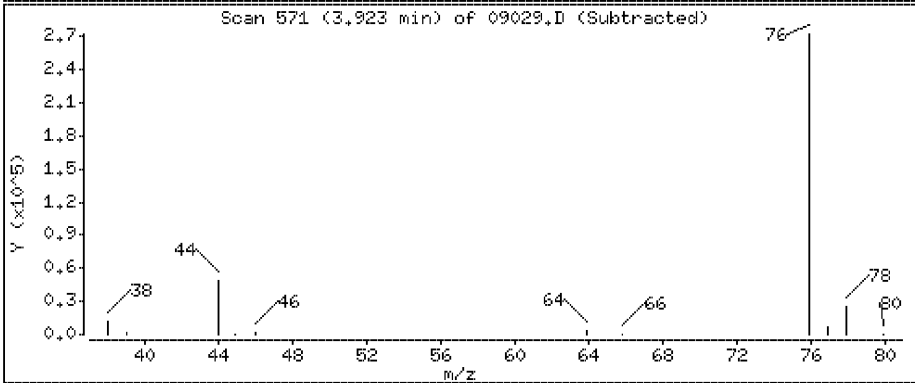
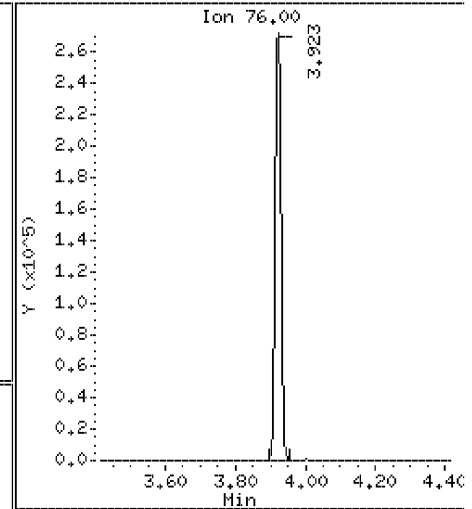
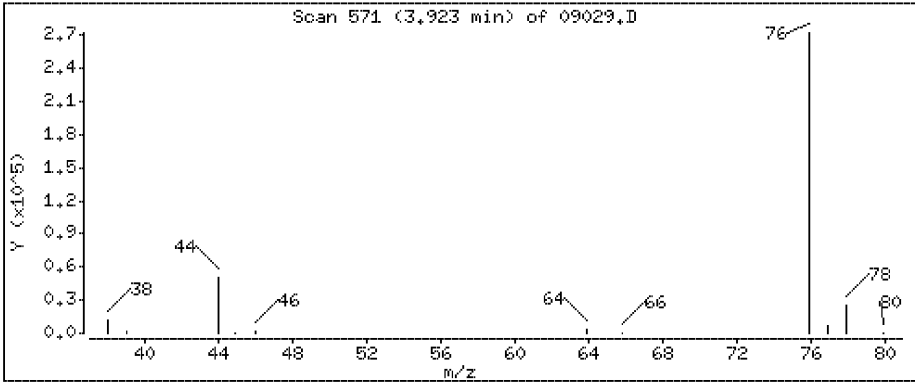
Operator: MJL

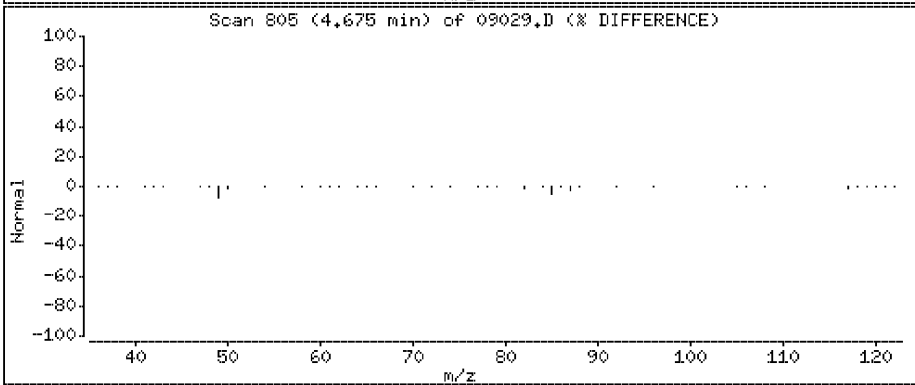
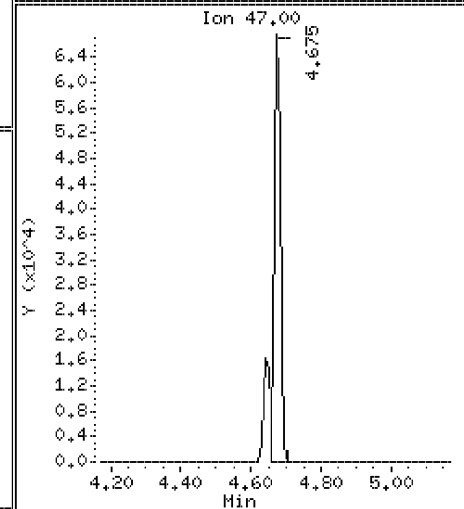
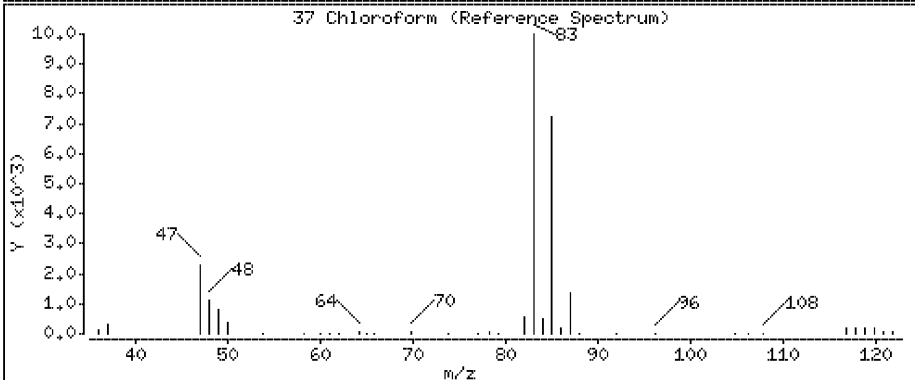
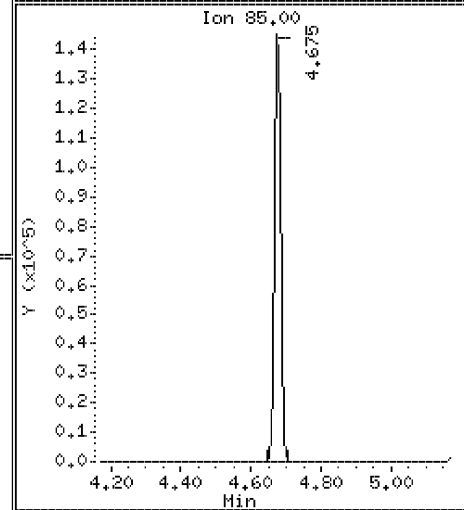
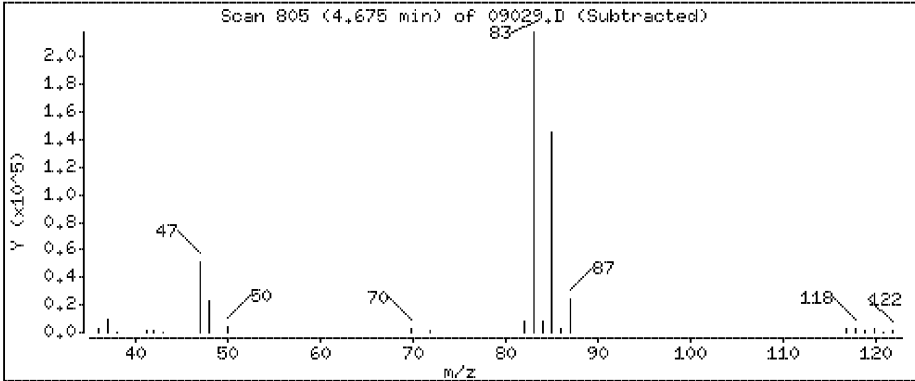
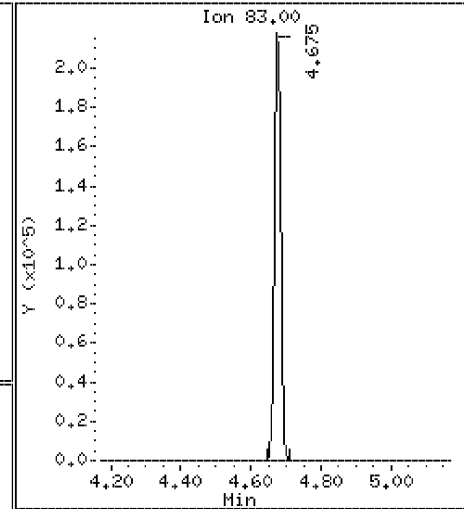
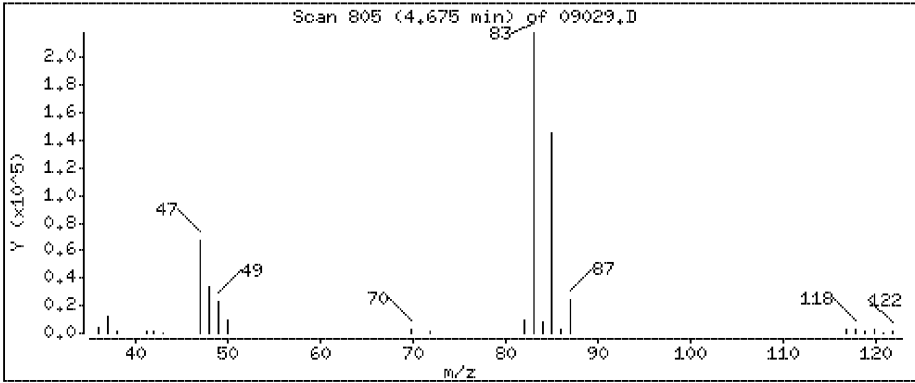
Column diameter: 0,32



26 Carbon Disulfide

Concentration: 697 ppbv





Data File: \\192.168.10.12\chem\10airH,1\033119,b\09029.D

Date : 31-MAR-2019 19:15

Client ID:

Instrument: 10airH.i

Sample Info:

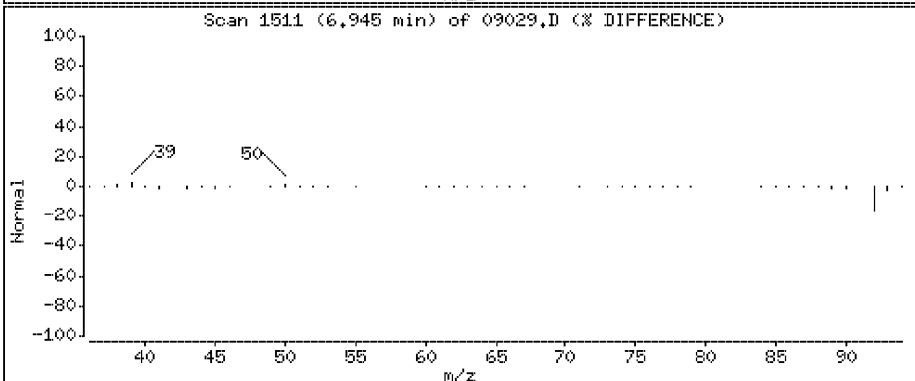
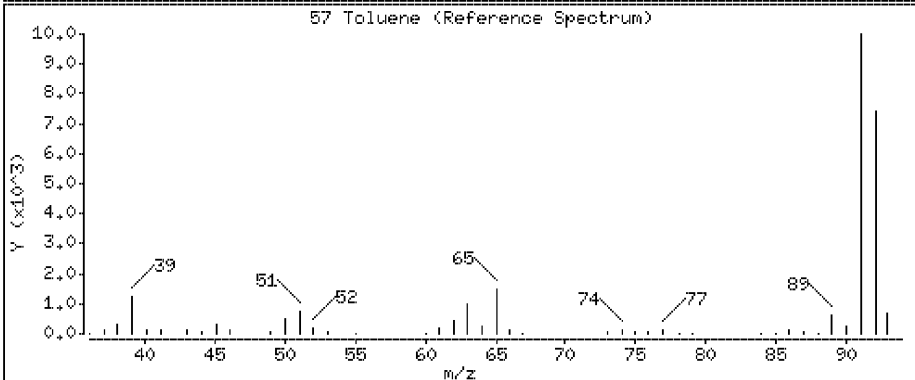
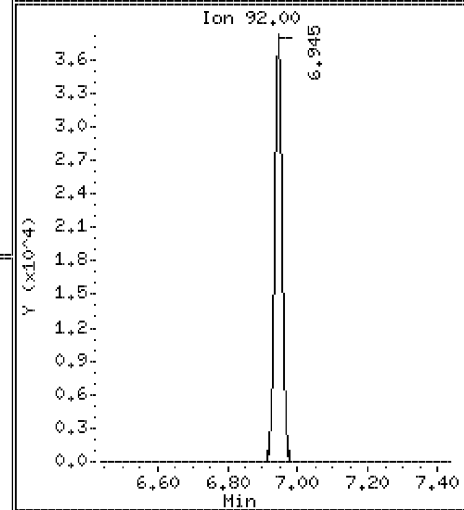
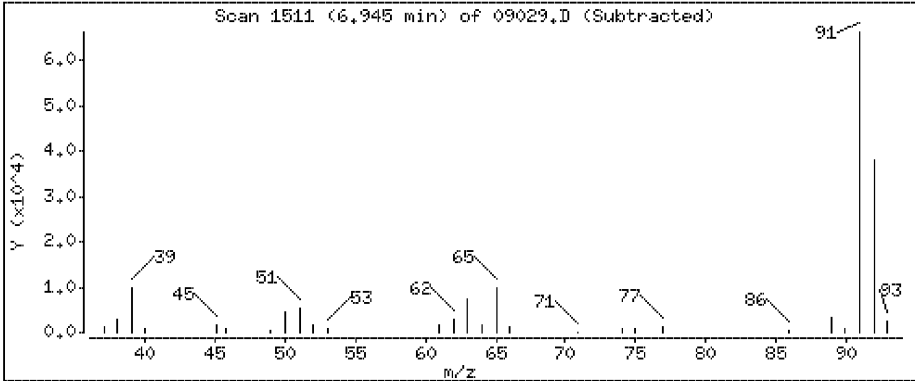
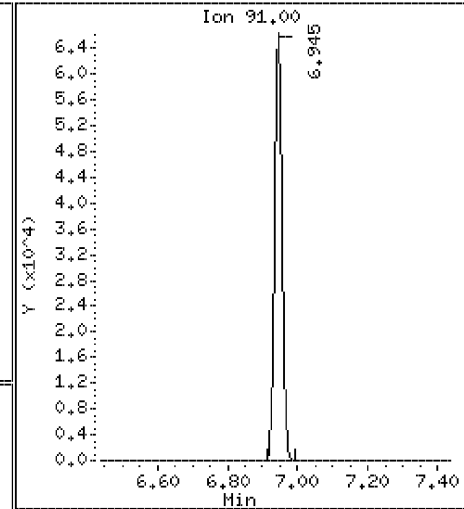
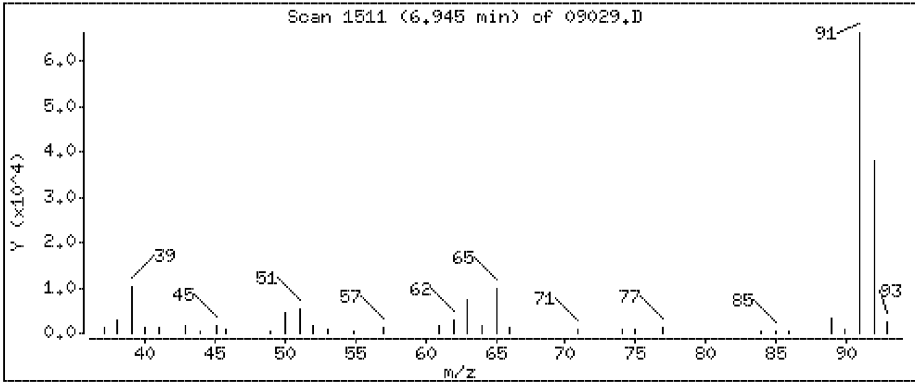
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0,32

57 Toluene

Concentration: 172 ppbv



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09029.D

Date : 31-MAR-2019 19:15

Client ID:

Instrument: 10airH.i

Sample Info:

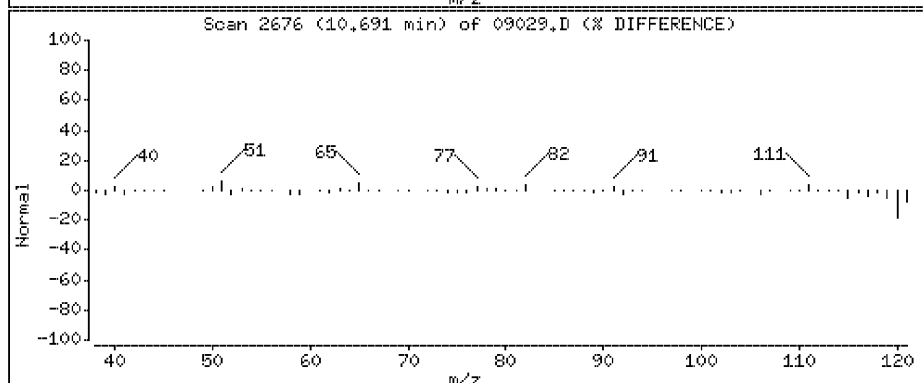
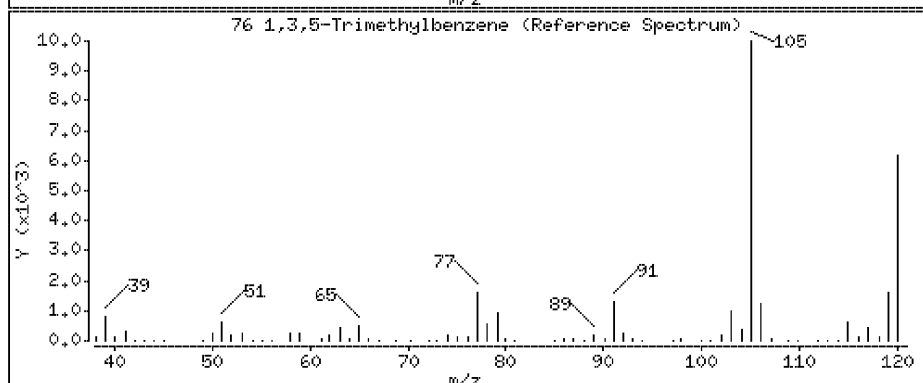
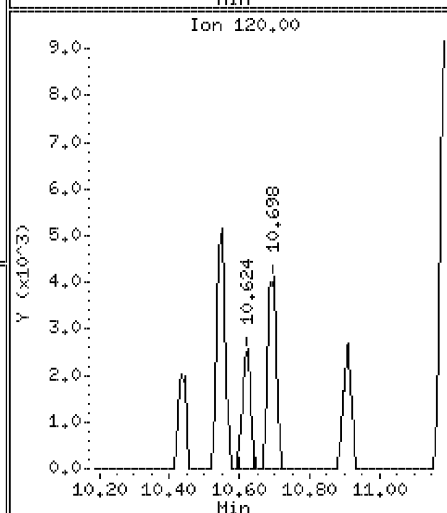
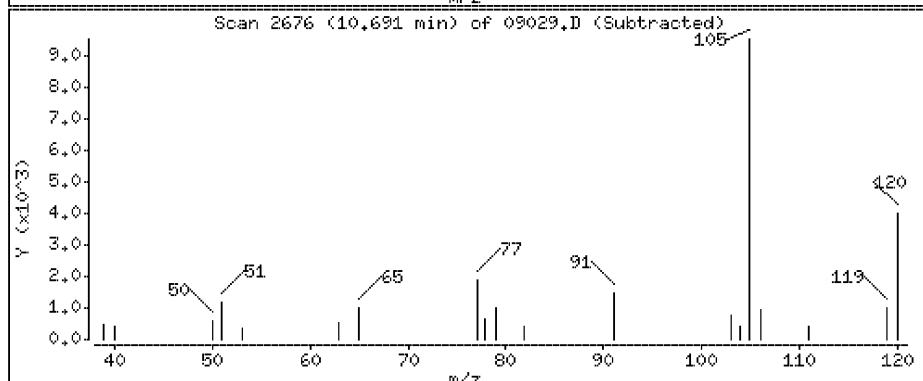
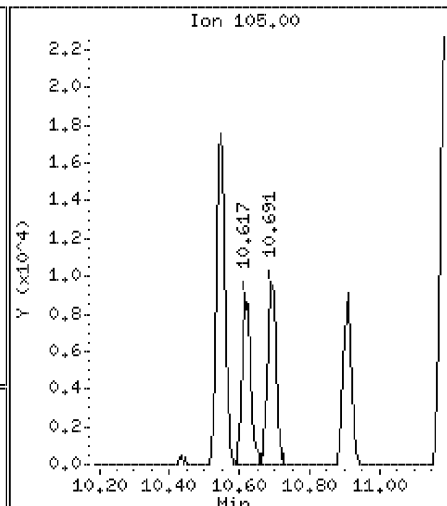
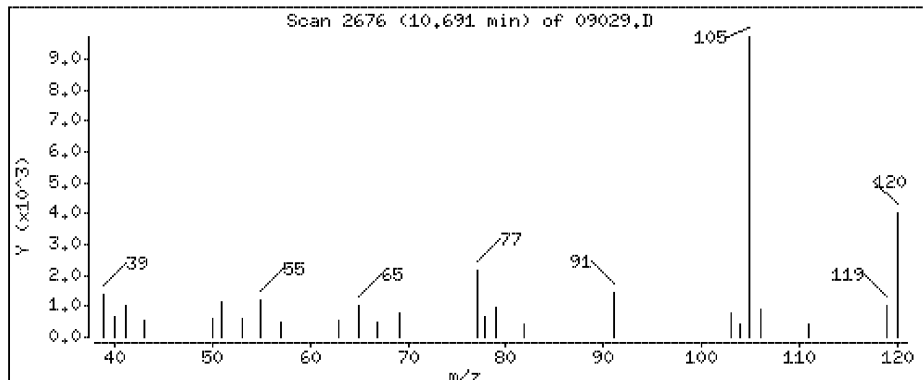
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0.32

76 1,3,5-Trimethylbenzene

Concentration: 26.9 ppbv



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09029.D

Date : 31-MAR-2019 19:15

Client ID:

Instrument: 10airH.i

Sample Info:

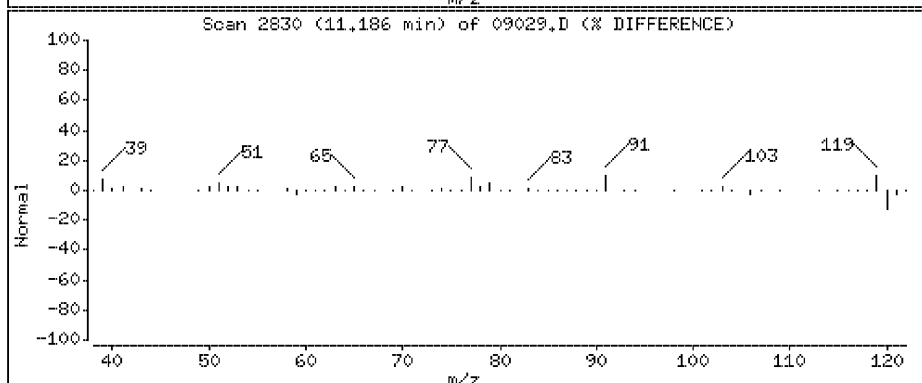
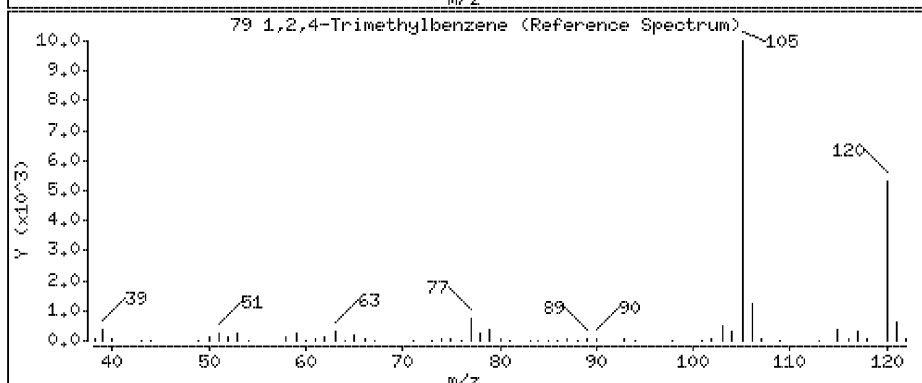
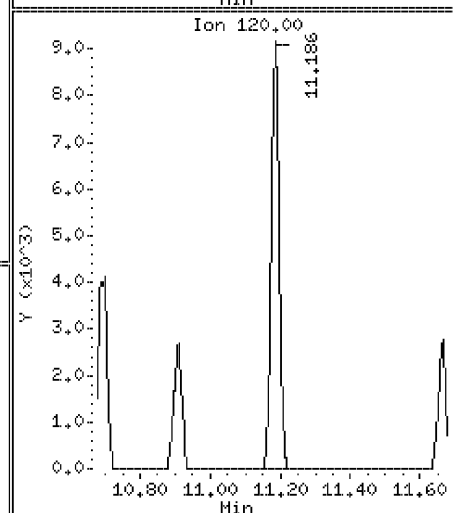
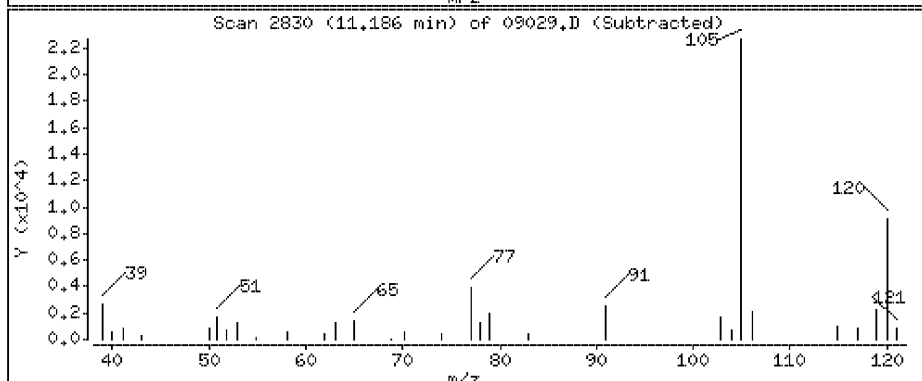
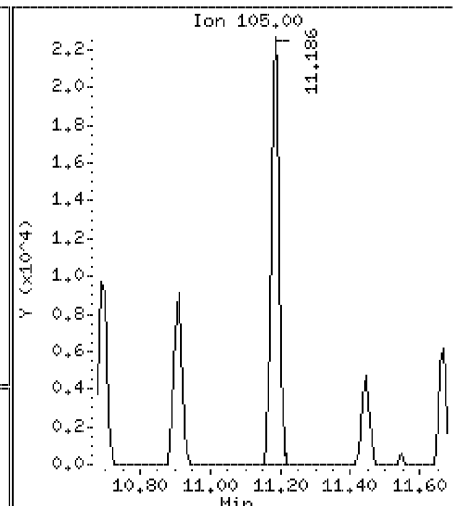
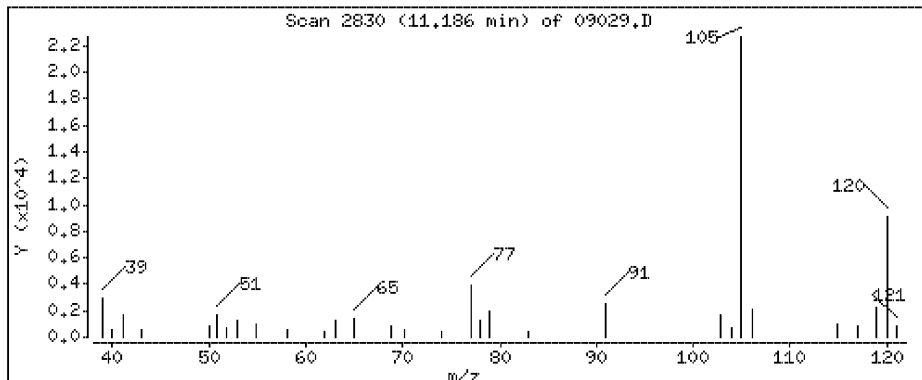
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0.32

79 1,2,4-Trimethylbenzene

Concentration: 53.0 ppbv



Data File: \\192.168.10.12\chem\10airH.i\033119.b\09029.D
Injection Date: 31-MAR-2019 19:15
Instrument: 10airH.i
Lab Sample ID: 10468767003
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\033019.b\08916.D
 Lab Smp Id: 10468767003
 Inj Date : 30-MAR-2019 13:53
 Operator : MJL Inst ID: 10airI.i
 Smp Info :
 Misc Info : 33312
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Meth Date : 31-Mar-2019 13:48 mlytle Quant Type: ISTD
 Cal Date : 30-MAR-2019 10:33 Cal File: 08909.D
 Als bottle: 16
 Dil Factor: 1.55000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.550	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ppbv)	FINAL (ppbv)	
1 1,1-Difluoroethane	65		3.019	3.013	(0.536)	25884	1.24246	1.93(Q)	
2 Chlorodifluoromethane	67		3.031	3.025	(0.539)	3024	0.32948	0.511(Q)	
3 Propylene	41		3.043	3.044	(0.541)	105923	2.85078	4.42(H)	
4 Dichlorodifluoromethane	85		3.068	3.068	(0.545)	20744	0.22308	0.346	
5 Dichlorotetrafluoroethane	85		Compound Not Detected.						(D)
6 Chloromethane	50		3.153	3.147	(0.560)	287683	7.17006	11.1	
7 Vinyl chloride	62		3.226	3.220	(0.573)	9948	0.38297	0.594	
8 1,3-Butadiene	54		Compound Not Detected.						(D)
9 Bromomethane	94		3.391	3.391	(0.603)	1175	0.05370	0.0832	
10 Chloroethane	64		Compound Not Detected.						(D)
11 Ethanol	45		3.440	3.440	(0.611)	301505	20.1521	31.2	
12 Vinyl Bromide	106		Compound Not Detected.						(D)
13 Isopentane	43		3.562	3.556	(0.633)	517897	14.2040	22.0	
14 Freon 123	83		Compound Not Detected.						(D)
15 Acrolein	56		Compound Not Detected.						(D)
16 Trichlorofluoromethane	101		3.635	3.635	(0.646)	9223	0.11628	0.180	
17 Acetone	43		3.653	3.653	(0.649)	815170	9.65443	15.0	
18 Isopropyl Alcohol	45		3.659	3.659	(0.650)	76666	1.26283	1.96(Q)	
19 Tert Butyl Alcohol (TBA)	59		Compound Not Detected.						(D)
20 Acrylonitrile	53		Compound Not Detected.						(D)
21 1,1-Dichloroethene	61		Compound Not Detected.						(D)
22 Methyl Acetate	43		Compound Not Detected.						(D)
23 Freon 113	101		3.909	3.903	(0.695)	1995	0.03078	0.0477(a)	

Compounds	QUANT	SIG						CONCENTRATIONS		
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)	
24 Methylene chloride	49		3.958	3.959	(0.703)	292194	5.39919	8.37		
25 Allyl Chloride	76		Compound Not Detected.							
26 Carbon Disulfide	76		4.080	4.080	(0.725)	7201212	81.9502	127 (A)		
27 trans-1,2-dichloroethene	96		4.232	4.226	(0.752)	171009	5.29328	8.20 (Q)		
28 Methyl Tert-Butyl Ether	73		Compound Not Detected.							(D)
29 Vinyl Acetate	43		Compound Not Detected.							(D)
30 1,1-Dichloroethane	63		4.366	4.366	(0.776)	43713	0.68259	1.06		
31 Methyl Ethyl Ketone	72		4.513	4.513	(0.802)	15324	0.78482	1.22 (Q)		
32 n-Hexane	57		4.549	4.549	(0.808)	366612	5.93989	9.21 (Q)		
33 Di-isopropyl Ether	45		Compound Not Detected.							(D)
34 Ethyl Acetate	43		4.689	4.690	(0.833)	10469	0.09446	0.146		
35 cis-1,2-Dichloroethene	96		4.696	4.690	(0.834)	2922	0.08389	0.130		
36 Ethyl Tert-Butyl Ether	59		Compound Not Detected.							(D)
38 Tetrahydrofuran	42		4.964	4.964	(0.882)	338671	6.93304	10.7 (Q)		
39 1,1,1-Trichloroethane	97		5.220	5.214	(0.927)	68865	0.87448	1.36		
40 1,2-Dichloroethane	62		5.232	5.232	(0.930)	18161	0.28575	0.443		
41 Benzene	78		5.464	5.458	(0.971)	638009	6.40651	9.93		
42 Carbon tetrachloride	117		5.482	5.476	(0.974)	28550	0.38267	0.593		
43 Cyclohexane	56		5.488	5.482	(0.975)	382232	6.20208	9.61 (Q)		
44 Tert Amyl Methyl Ether	73		Compound Not Detected.							(D)
* 45 1,4-Difluorobenzene	114		5.628	5.628	(1.000)	776013	10.0000			
46 2,2,4-Trimethylpentane	57		5.775	5.769	(1.026)	646084	3.46093	5.36 (Q)		
47 Heptane	43		5.909	5.909	(1.050)	363007	4.15244	6.44 (M)		
48 1,2-Dichloropropane	63		Compound Not Detected.							(D)
49 Trichloroethene	130		6.012	6.006	(1.068)	6978	0.16920	0.262		
50 Methyl methacrylate	69		6.079	6.086	(1.080)	8040	0.21232	0.329 (Q)		
51 1,4-Dioxane	88		Compound Not Detected.							(D)
52 Bromodichloromethane	83		6.116	6.110	(1.087)	307591	3.99075	6.19		
53 Methylcyclohexane	98		6.451	6.458	(1.146)	181487	7.04996	10.9 (Q)		
54 Methyl Isobutyl Ketone	43		6.573	6.579	(1.168)	33394	0.30264	0.469		
55 cis-1,3-Dichloropropene	75		Compound Not Detected.							
56 trans-1,3-Dichloropropene	75		Compound Not Detected.							
57 Toluene	91		7.201	7.195	(1.279)	4561920	39.7510	61.6 (A)		
58 1,1,2-Trichloroethane	97		Compound Not Detected.							(D)
59 Methyl Butyl Ketone	43		Compound Not Detected.							(D)
60 n-Octane	43		7.634	7.634	(0.879)	708365	6.27432	9.73		
61 Dibromochloromethane	129		7.738	7.744	(0.891)	107734	1.91245	2.96		
62 1,2-Dibromoethane	107		Compound Not Detected.							
63 Tetrachloroethene	166		8.036	8.036	(0.926)	264784	5.45390	8.45		
* 64 Chlorobenzene - d5	117		8.683	8.683	(1.000)	676284	10.0000			
65 Chlorobenzene	112		Compound Not Detected.							(D)
66 Ethyl Benzene	91		8.969	8.963	(1.033)	1148838	7.87934	12.2		
67 m&p-Xylene	91		9.109	9.103	(1.049)	2801964	25.2434	39.1		
68 n-Nonane	43		9.481	9.475	(1.092)	771168	6.84675	10.6 (M)		
69 Bromoform	173		9.512	9.506	(1.095)	82266	1.99456	3.09 (Q)		
70 Styrene	104		Compound Not Detected.							(D)
71 o-Xylene	91		9.591	9.591	(1.105)	1313449	11.5431	17.9		
72 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.							(D)
73 Isopropylbenzene	105		10.146	10.146	(1.169)	281166	1.82811	2.83		
74 N-Propylbenzene	91		10.694	10.688	(1.232)	997596	5.28630	8.19		
75 4-Ethyltoluene	105		10.853	10.853	(1.250)	897979	6.37017	9.87		
76 1,3,5-Trimethylbenzene	105		10.938	10.938	(1.260)	824214	6.77351	10.5		
77 n-Decane	57		11.280	11.274	(2.004)	1502063	16.1418	25.0 (Q)		
78 Tert-Butyl Benzene	119		Compound Not Detected.							(D)

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS			
							ON-COLUMN (ppbv)	FINAL (ppbv)		
79 1,2,4-Trimethylbenzene	105		11.408	11.408	(1.314)	1735534	14.3865	22.3		
80 Sec- Butylbenzene	105		11.676	11.676	(1.345)	343450	2.00768	3.11		
81 1,3-Dichlorobenzene	146		Compound Not Detected.							(D)
82 Benzyl Chloride	91		Compound Not Detected.							(D)
83 1,4-Dichlorobenzene	146		11.767	11.767	(1.355)	13423	0.21562	0.334 (M)		
84 p-Isopropyltoluene	119		11.847	11.847	(1.364)	248400	1.84006	2.85 (M)		
85 1,2,3-Trimethylbenzene	105		11.889	11.883	(1.369)	514963	4.45676	6.91		
86 1,2-Dichlorobenzene	146		Compound Not Detected.							
87 N-Butylbenzene	91		12.279	12.273	(1.414)	395198	2.96061	4.59		
88 1,2-Dibromo-3-Chloropropane	157		Compound Not Detected.							(D)
89 1,2,4-Trichlorobenzene	180		Compound Not Detected.							(D)
90 Naphthalene	128		13.864	13.846	(1.597)	28595	0.32361	0.502		
91 Hexachlorobutadiene	225		Compound Not Detected.							

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.
- D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08916.D
Report Date: 31-Mar-2019 13:57

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airI.i
Lab File ID: 08916.D
Lab Smp Id: 10468767003
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
Misc Info: 33312

Calibration Date: 30-MAR-2019
Calibration Time: 08:43

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	1148342	689005	1607679	776013	-32.42
64 Chlorobenzene - d	994820	596892	1392748	676284	-32.02

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.63	5.30	5.96	5.63	-0.00
64 Chlorobenzene - d	8.68	8.35	9.01	8.68	-0.00

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

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

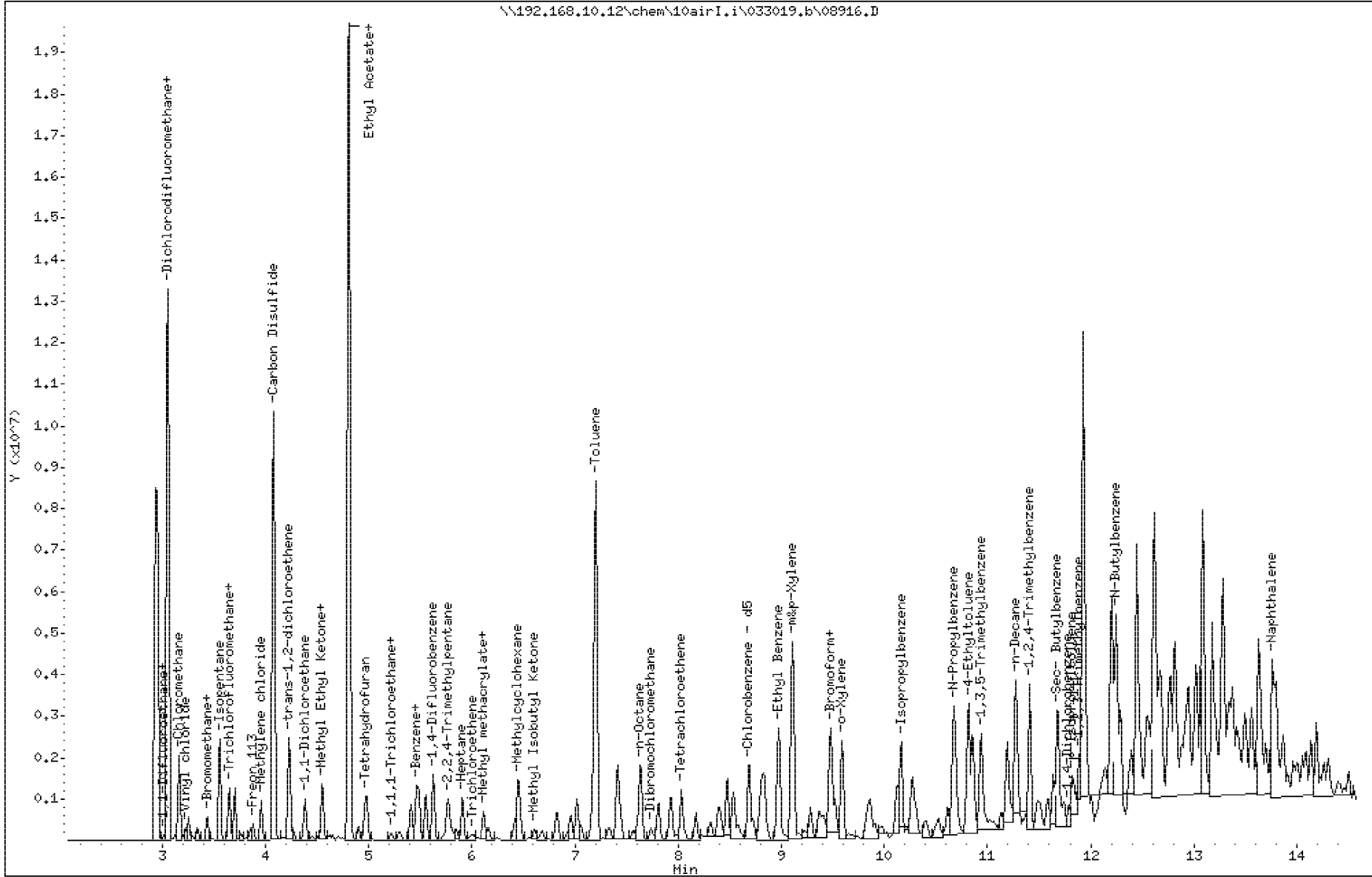
Sample Info:

Column phase: DB-5 SN:USD449717H

Instrument: 10airI.i

Operator: MJL

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

Sample Info:

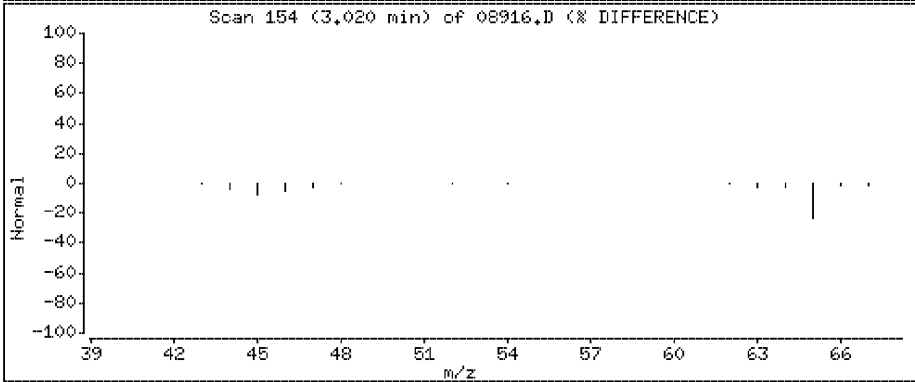
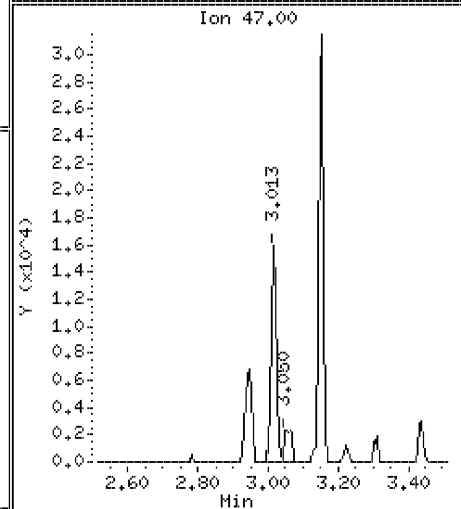
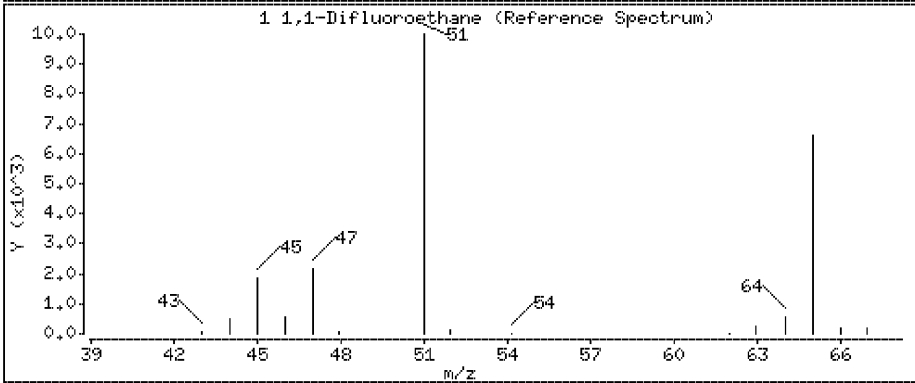
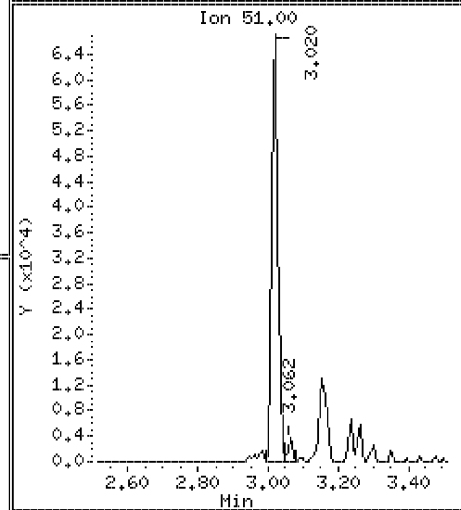
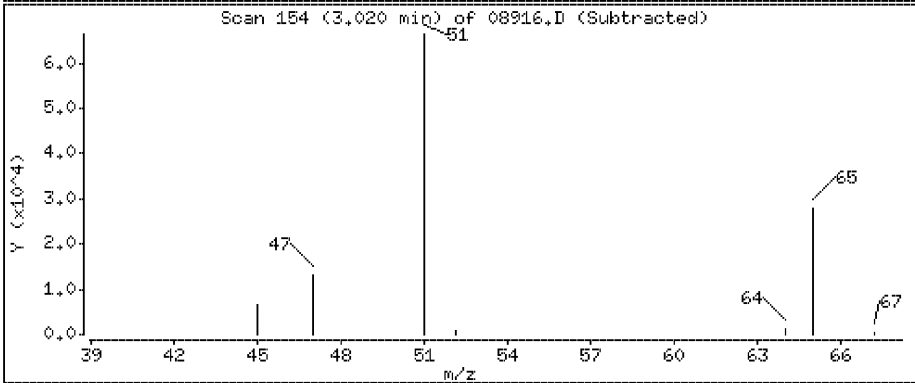
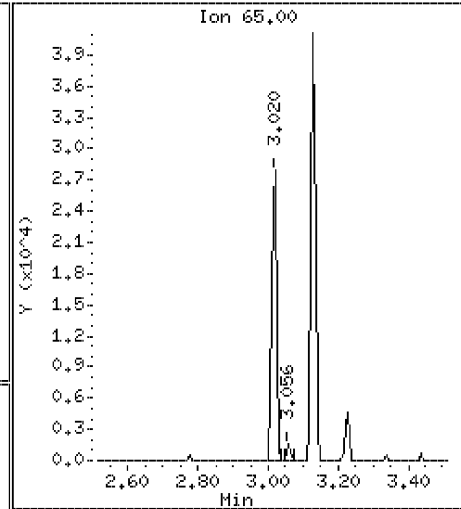
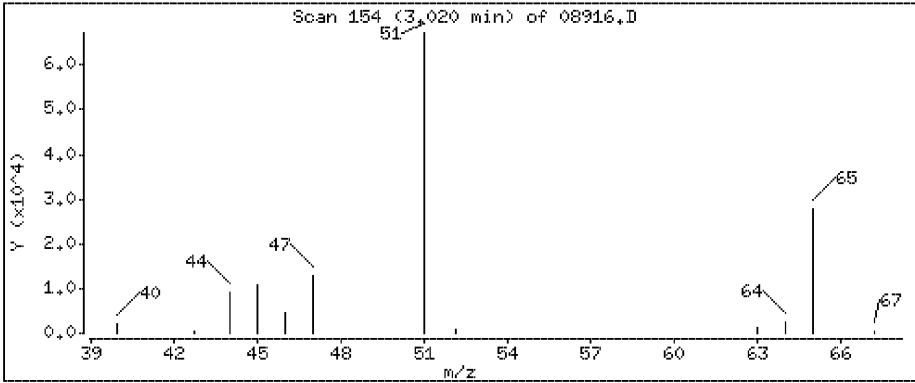
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

1 1,1-Difluoroethane

Concentration: 1,93 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

Sample Info:

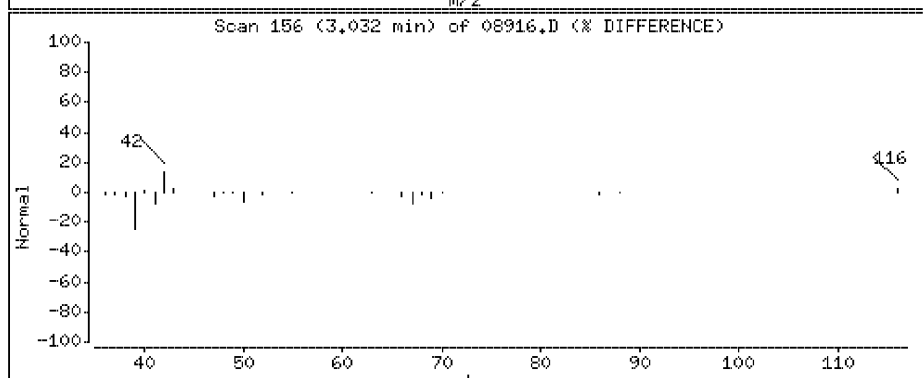
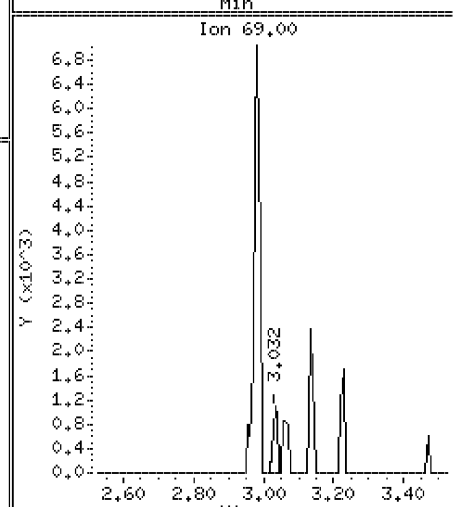
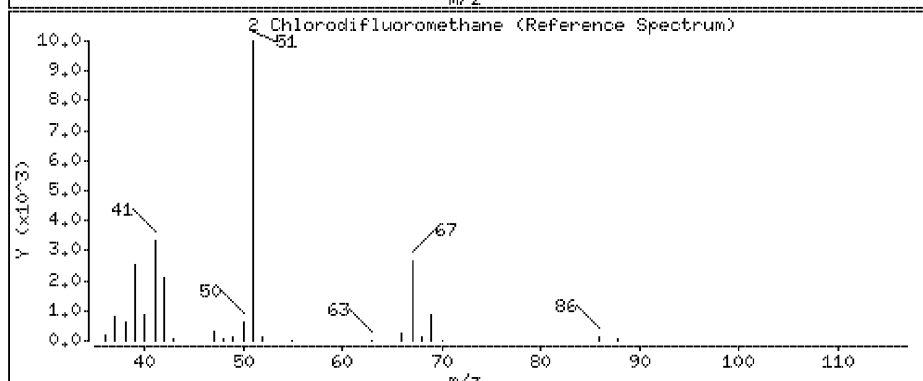
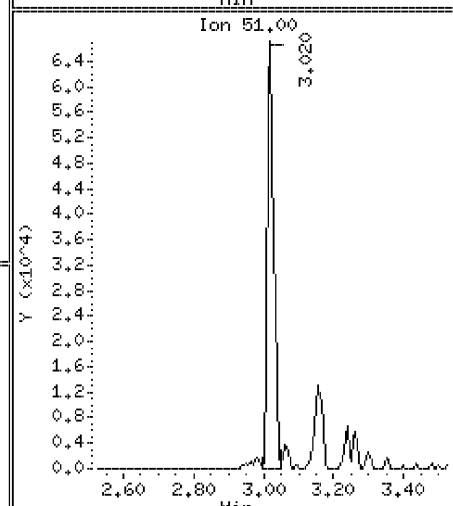
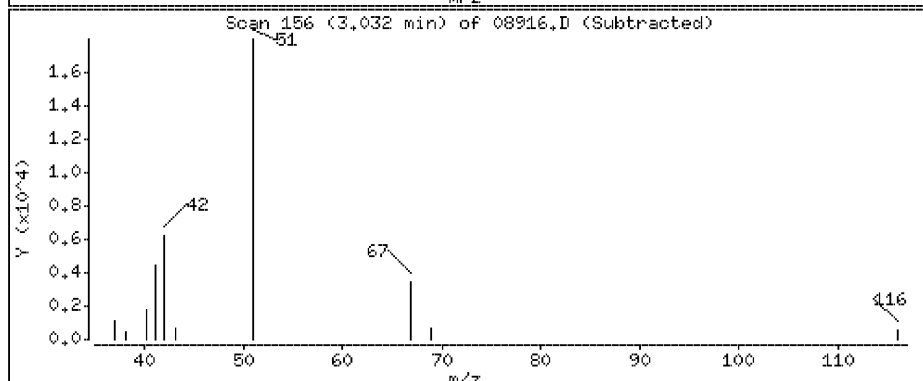
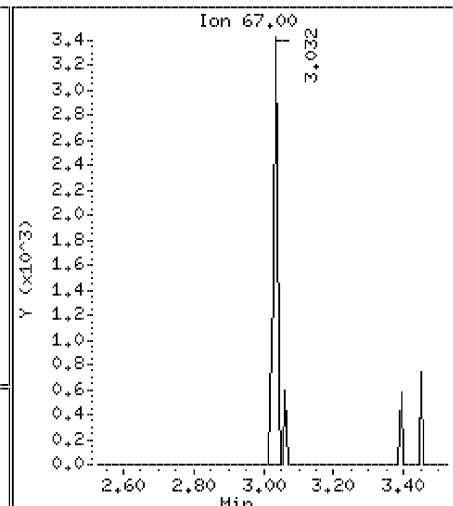
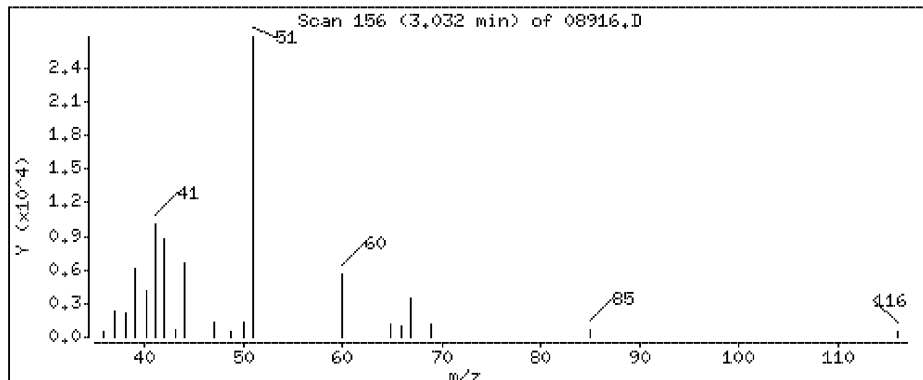
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

2 Chlorodifluoromethane

Concentration: 0,511 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

Sample Info:

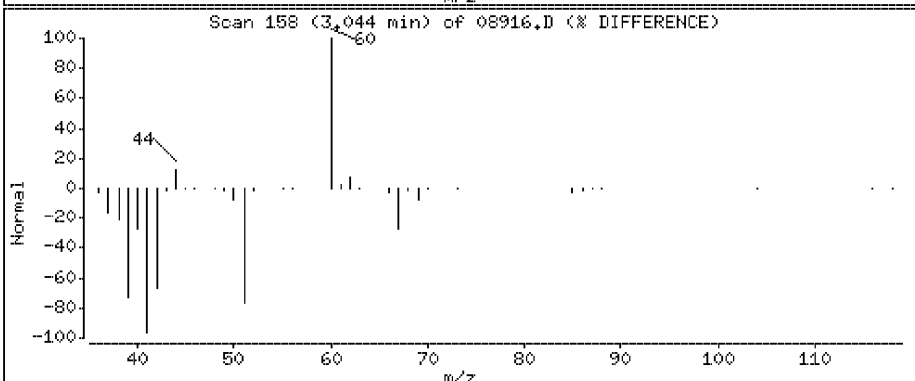
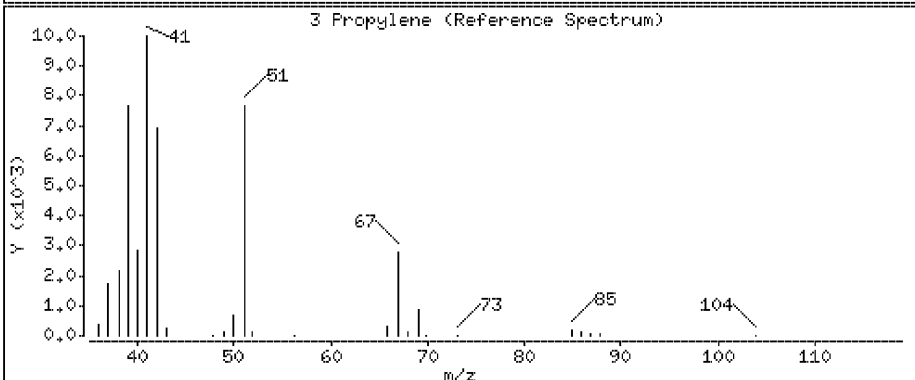
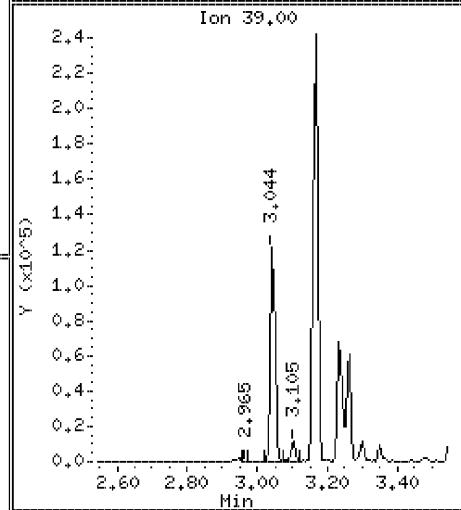
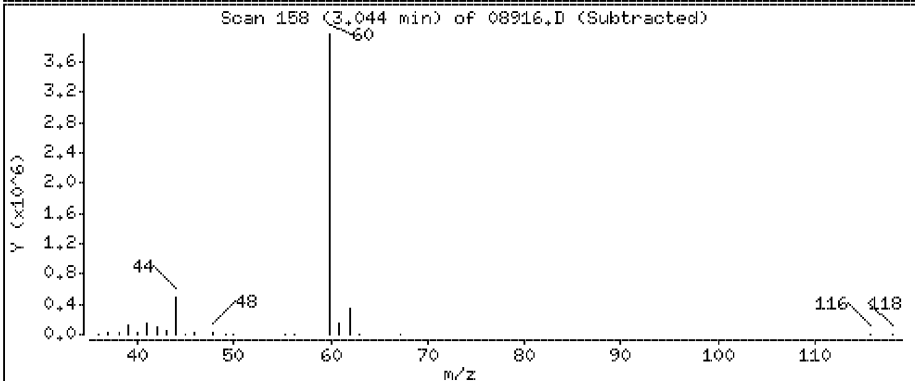
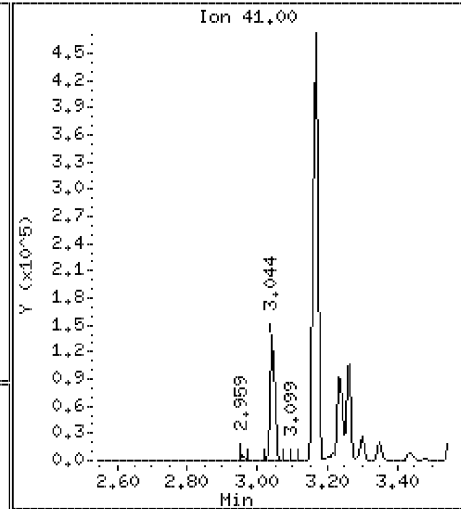
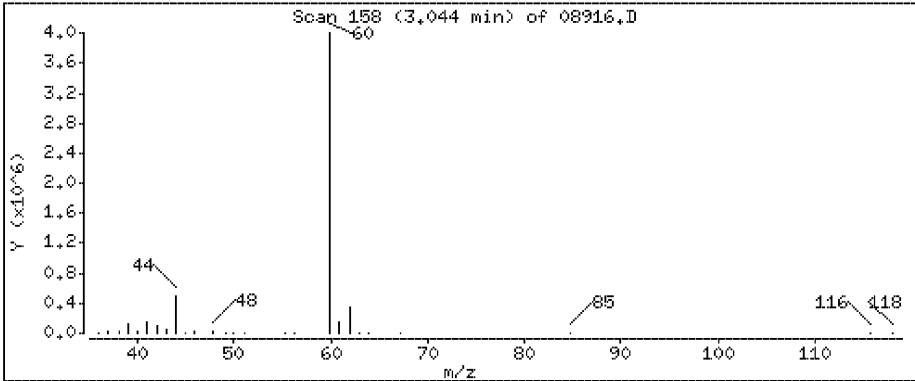
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

3 Propylene

Concentration: 4.42 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

Sample Info:

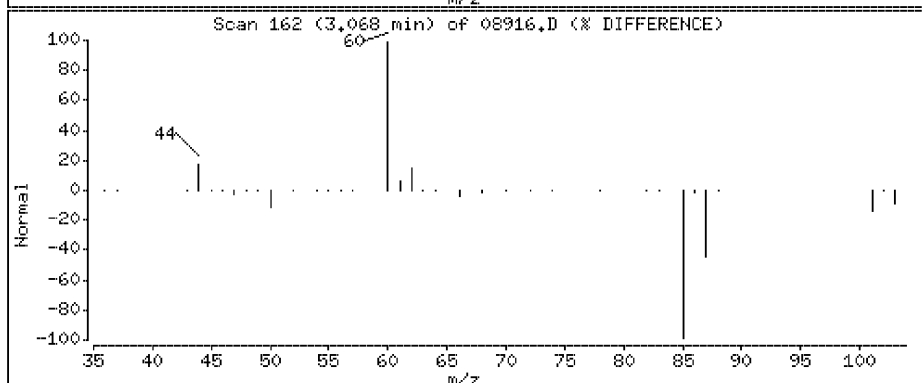
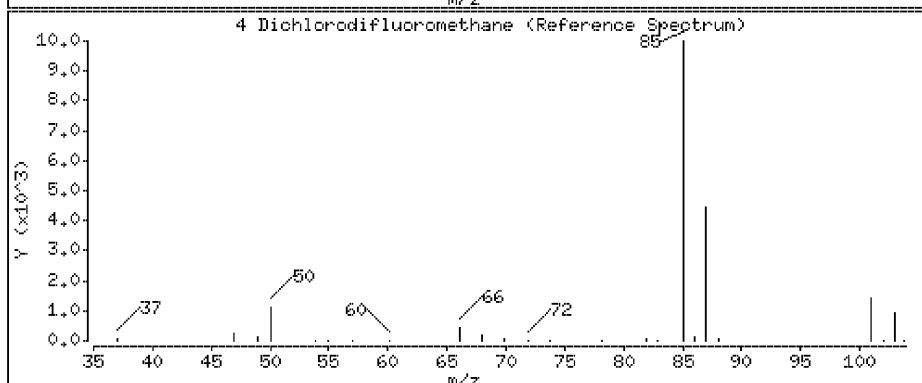
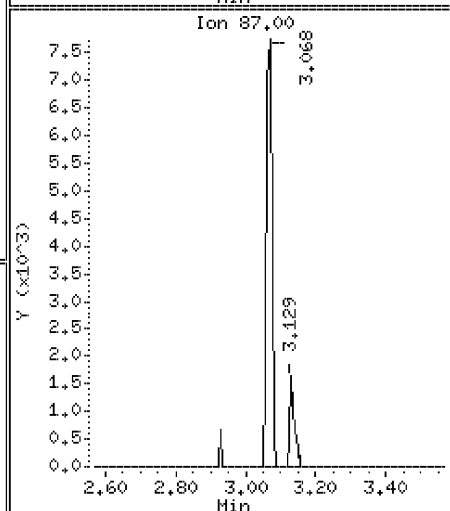
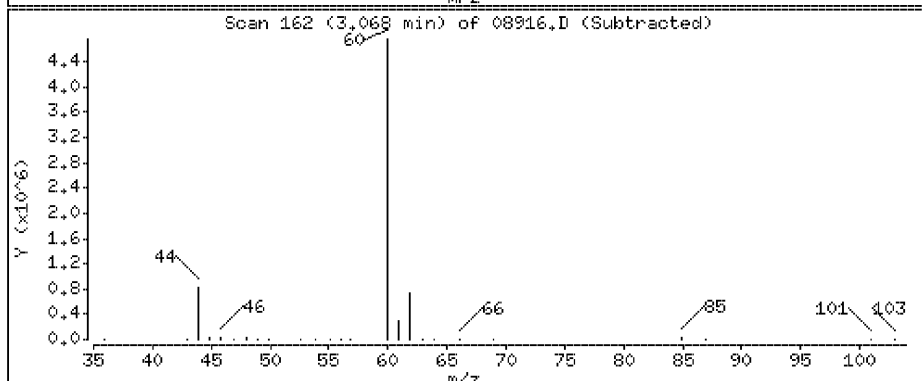
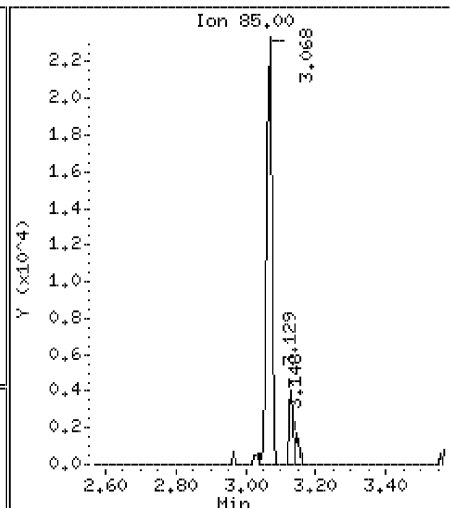
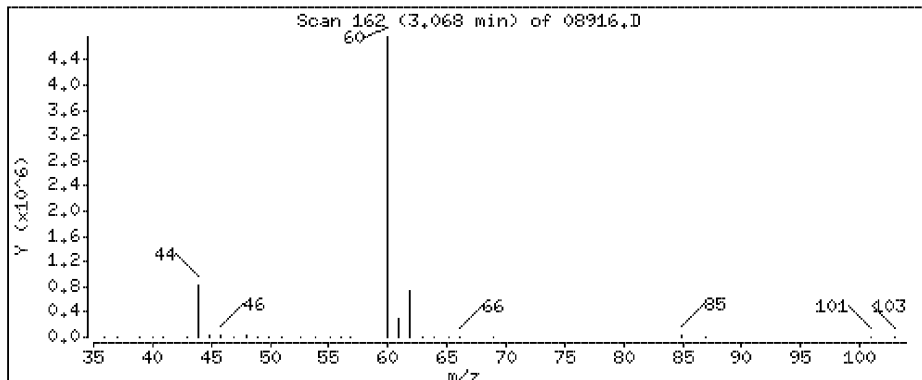
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

4 Dichlorodifluoromethane

Concentration: 0,346 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

Sample Info:

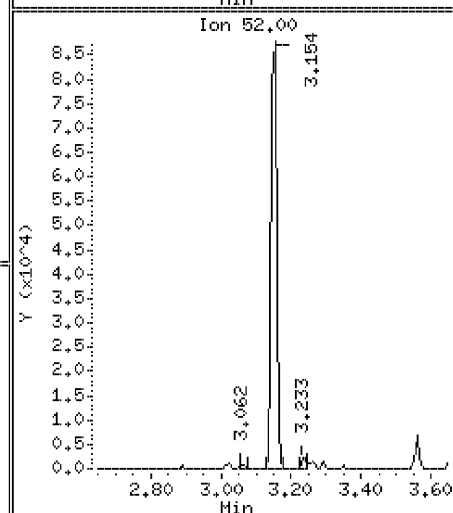
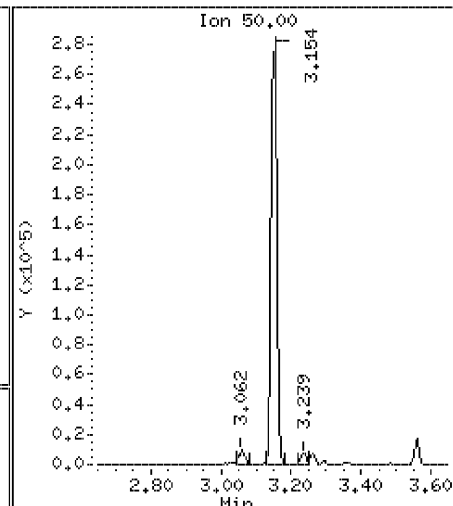
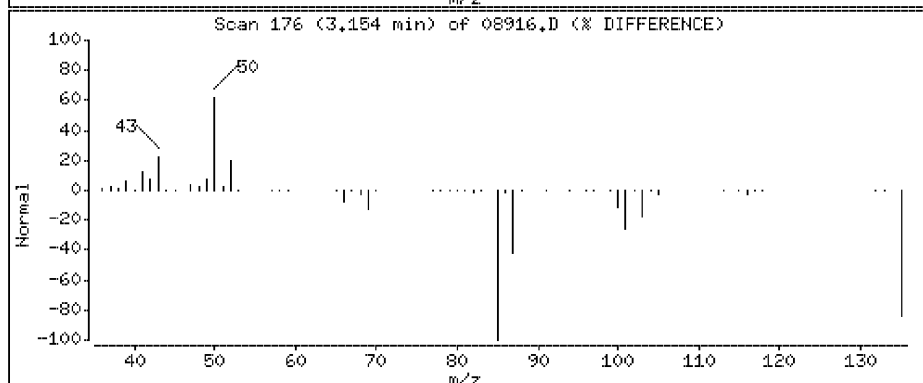
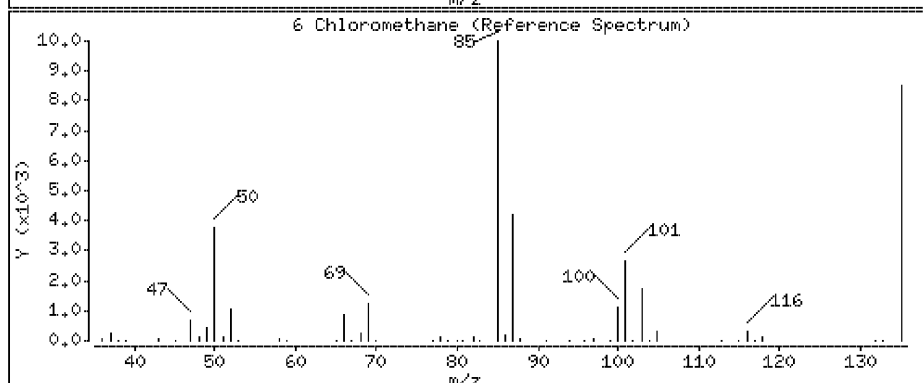
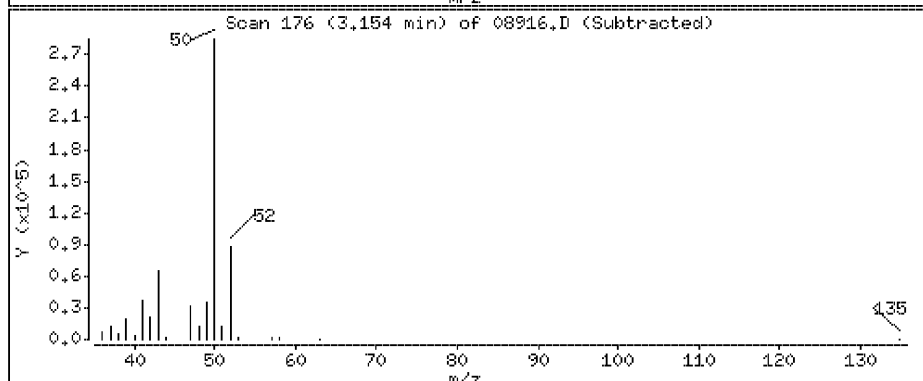
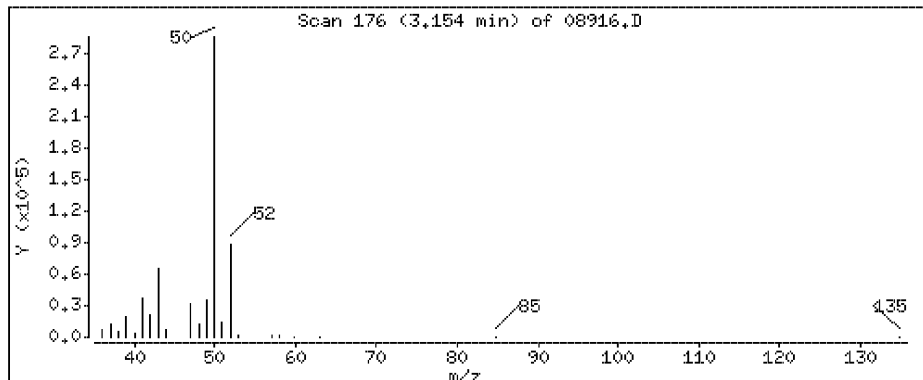
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

6 Chloromethane

Concentration: 11.1 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

Sample Info:

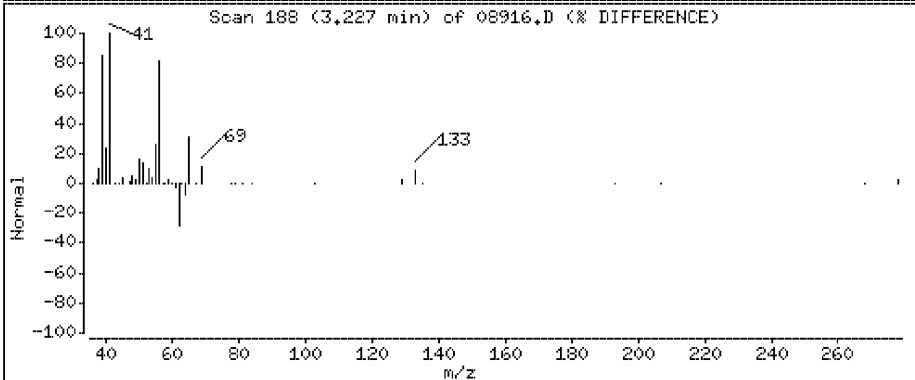
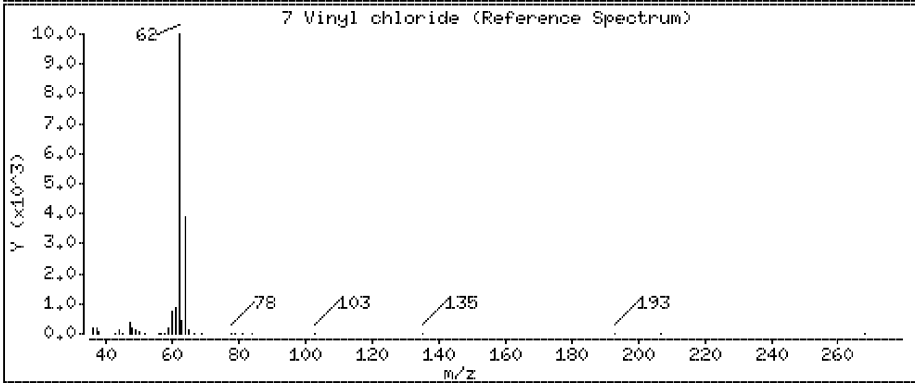
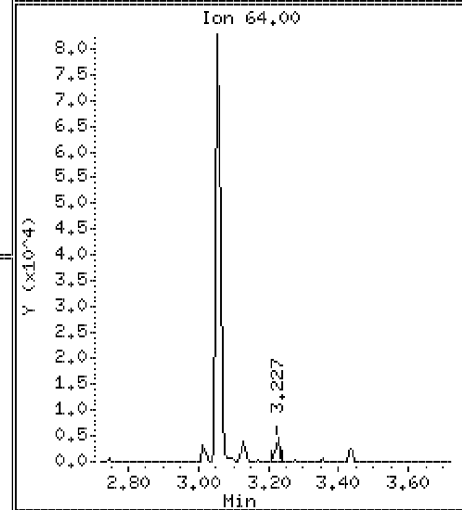
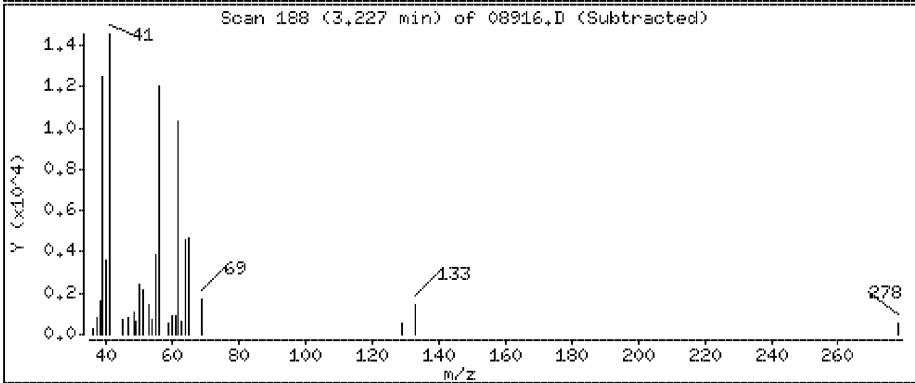
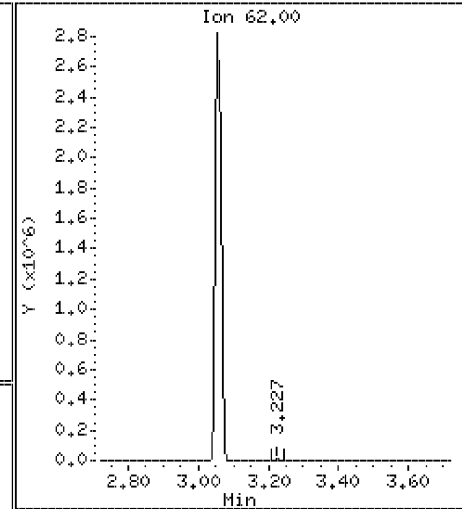
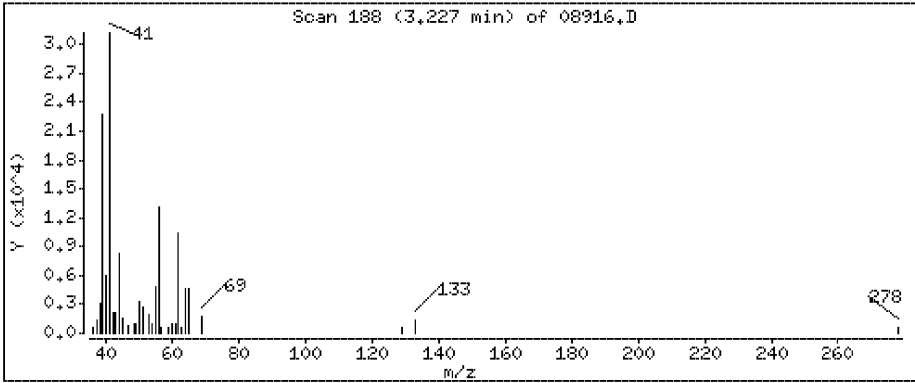
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

7 Vinyl chloride

Concentration: 0.594 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

Sample Info:

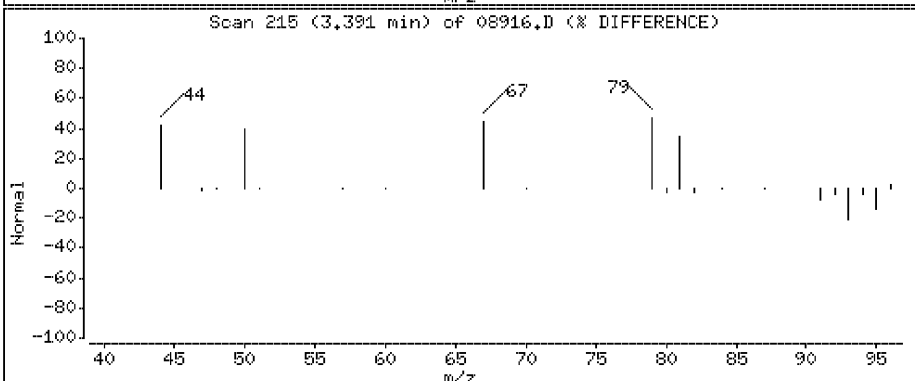
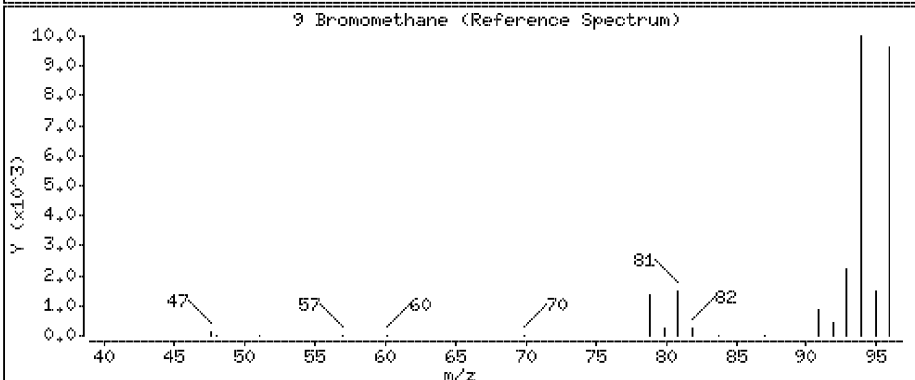
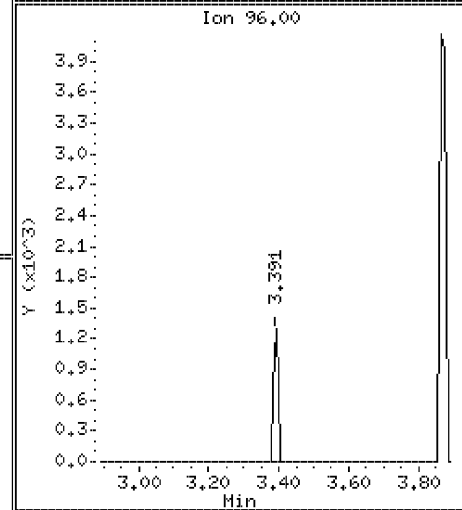
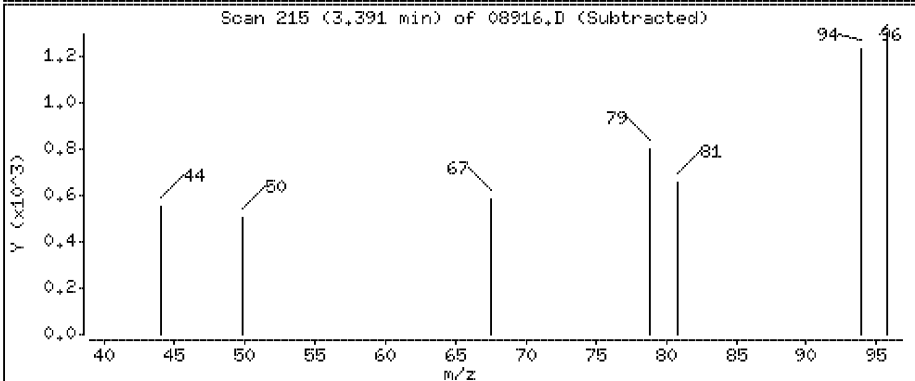
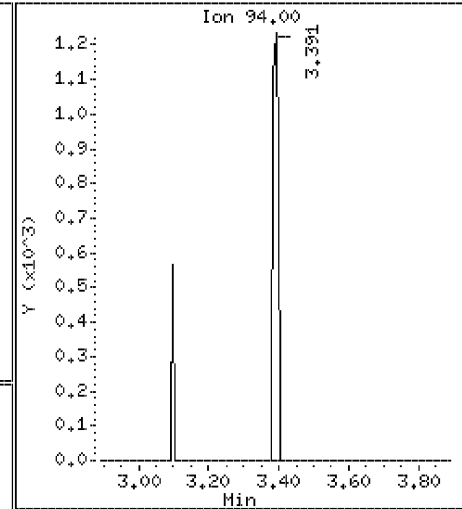
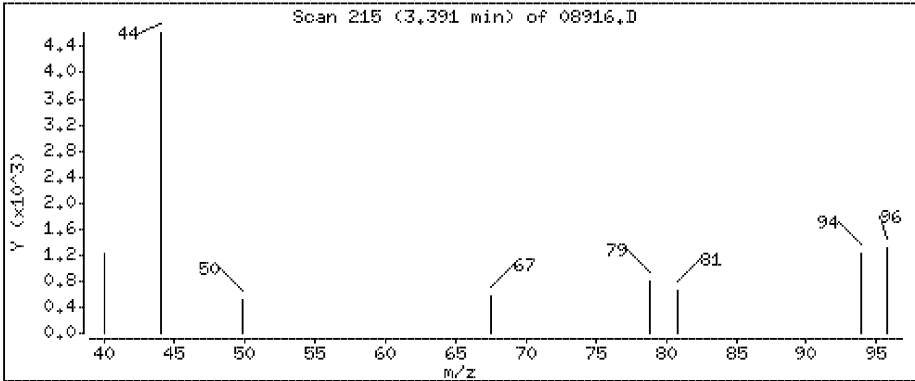
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

9 Bromomethane

Concentration: 0.0832 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

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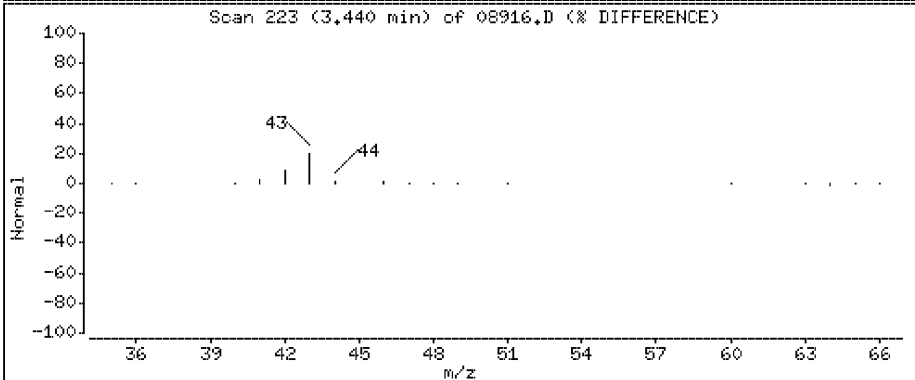
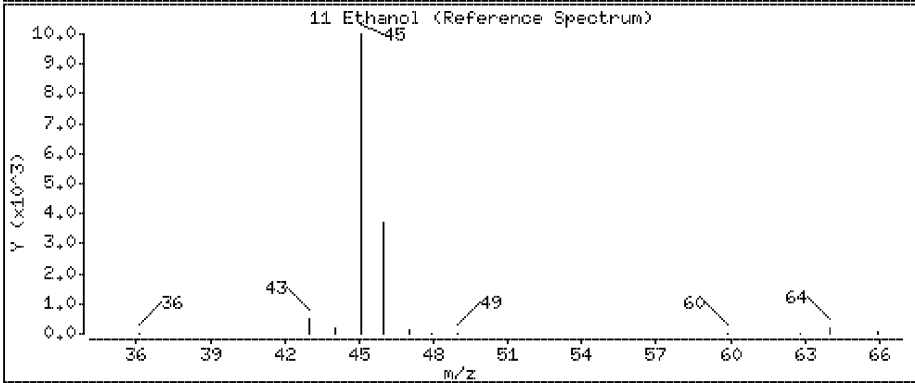
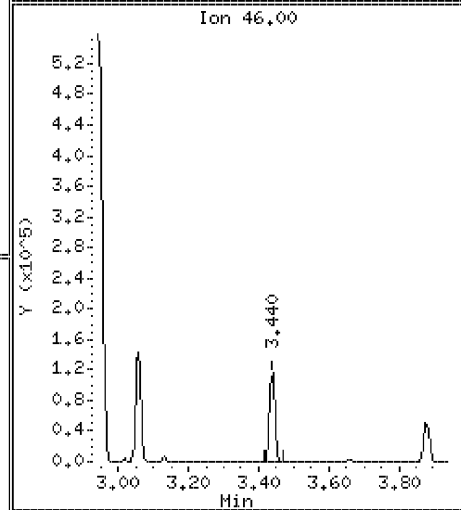
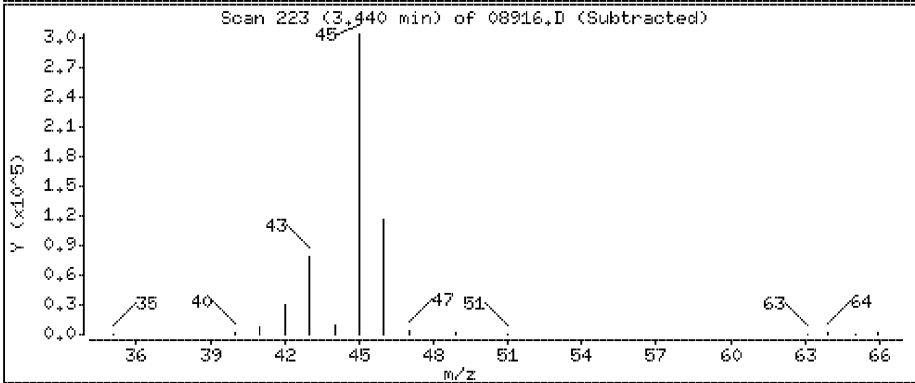
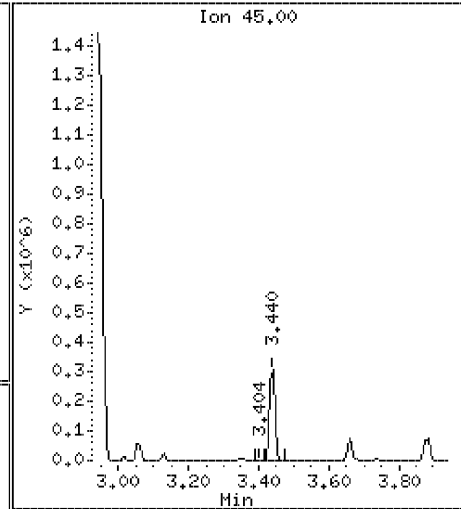
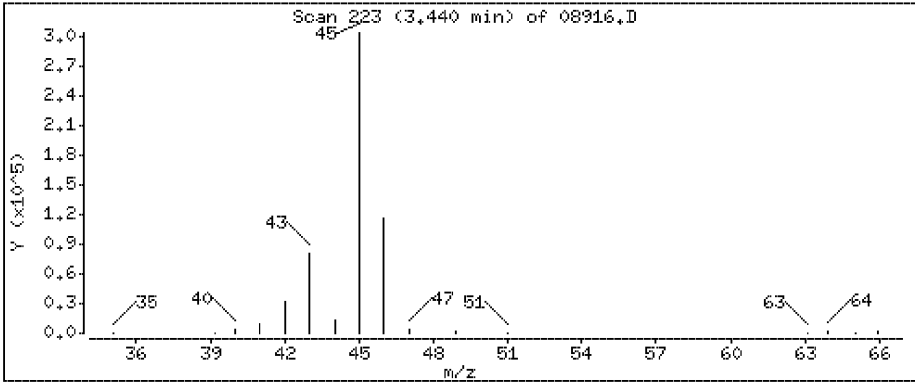
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

11 Ethanol

Concentration: 31.2 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

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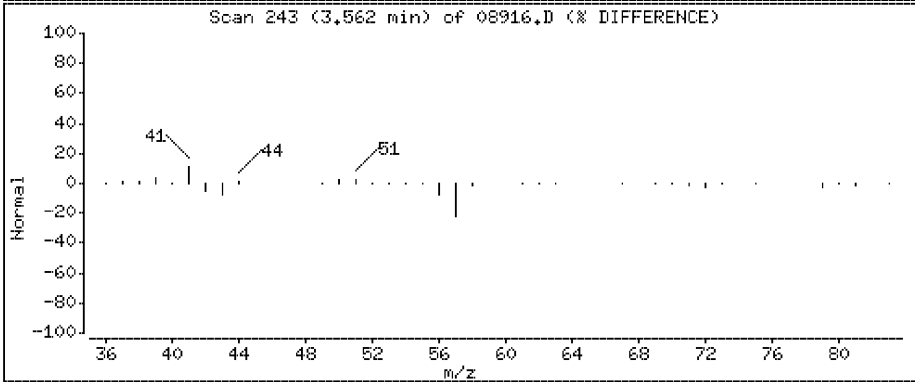
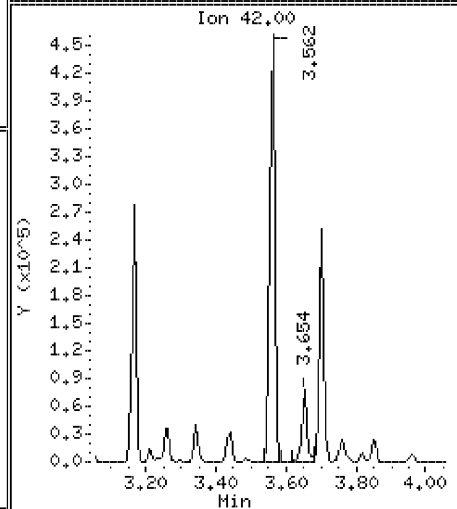
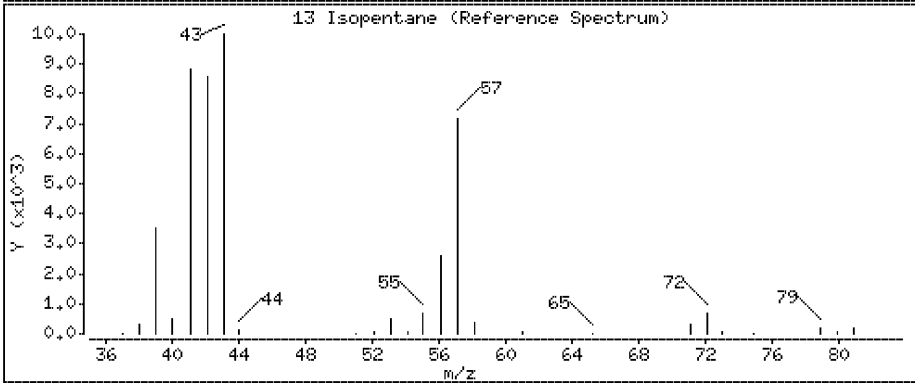
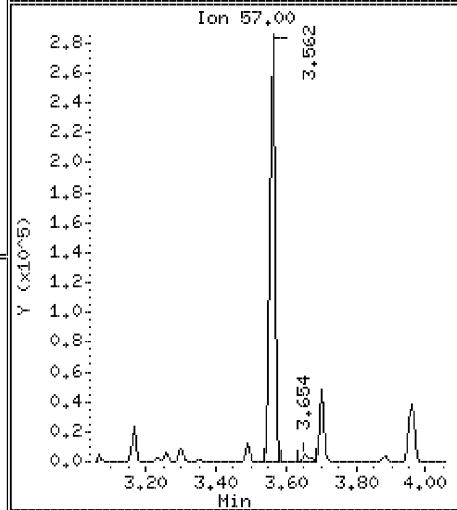
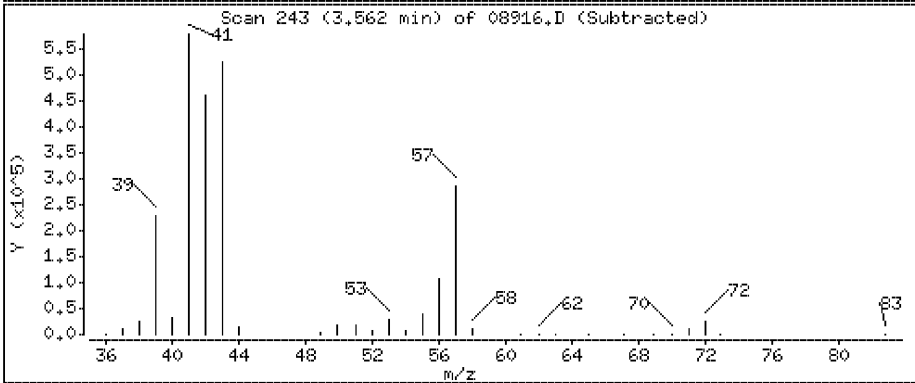
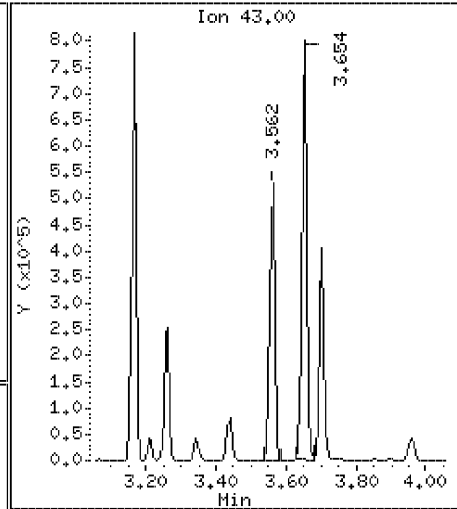
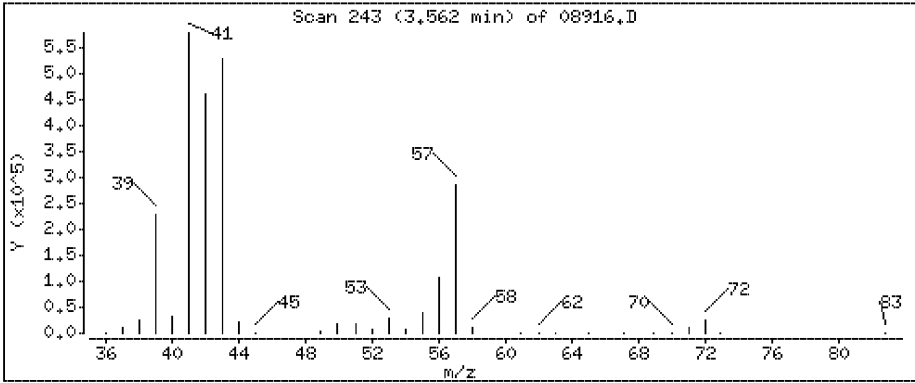
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

13 Isopentane

Concentration: 22.0 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

Sample Info:

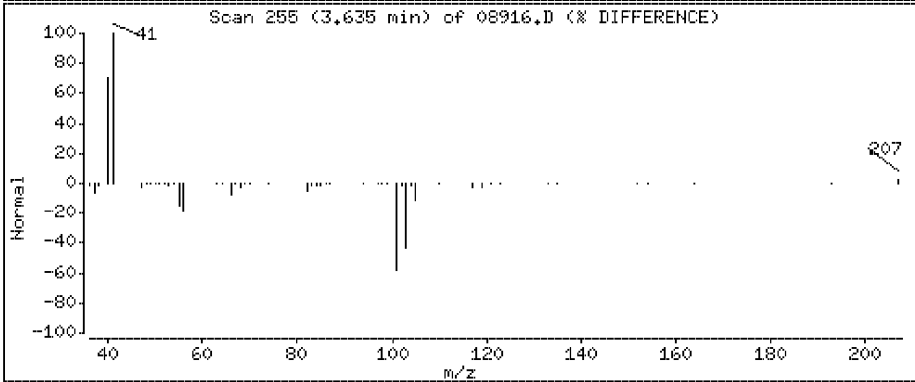
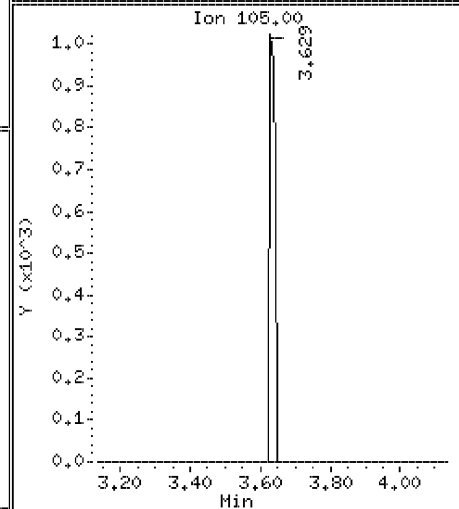
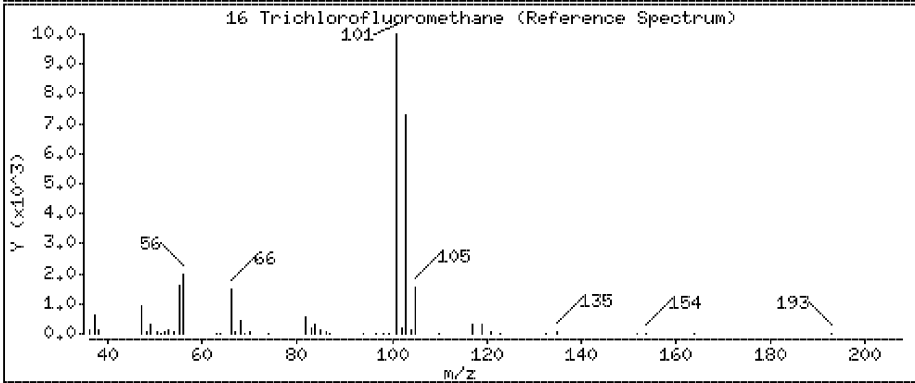
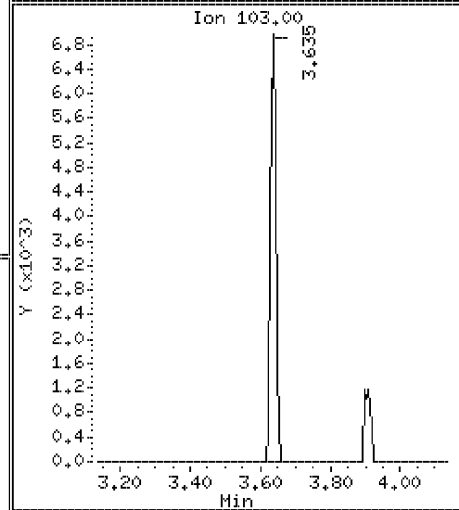
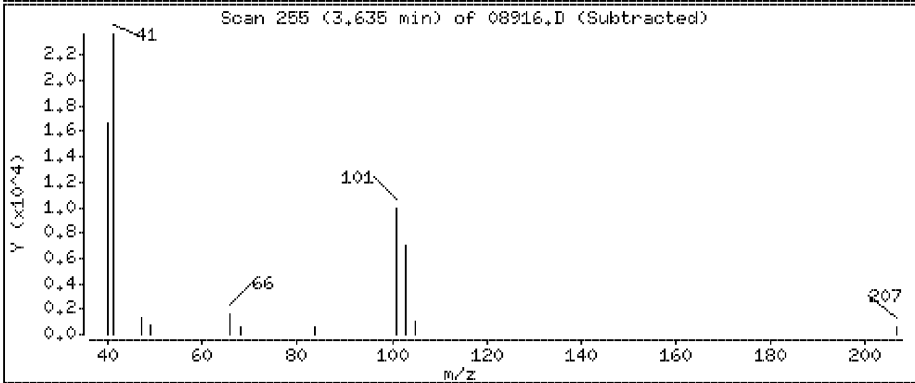
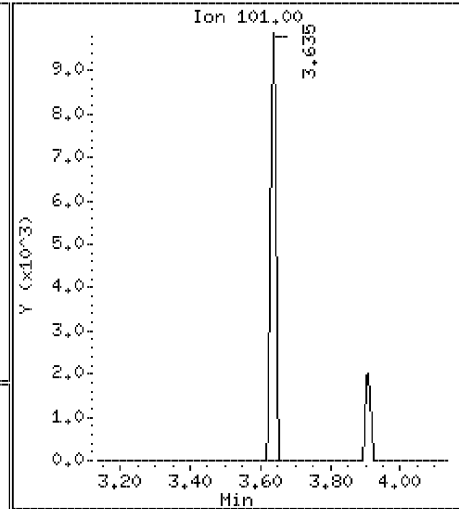
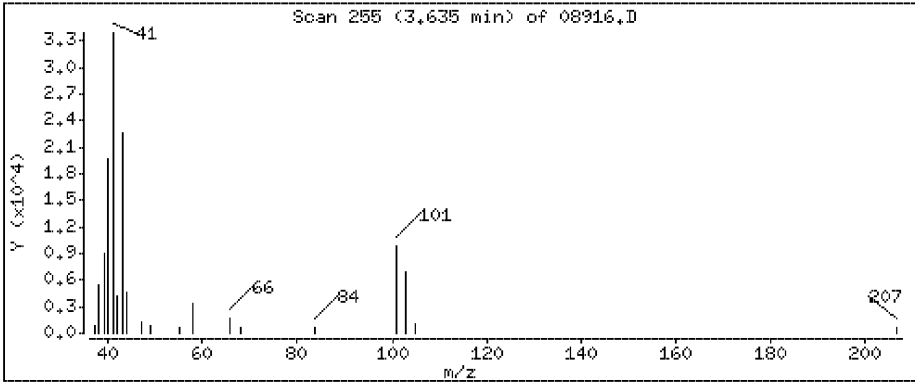
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

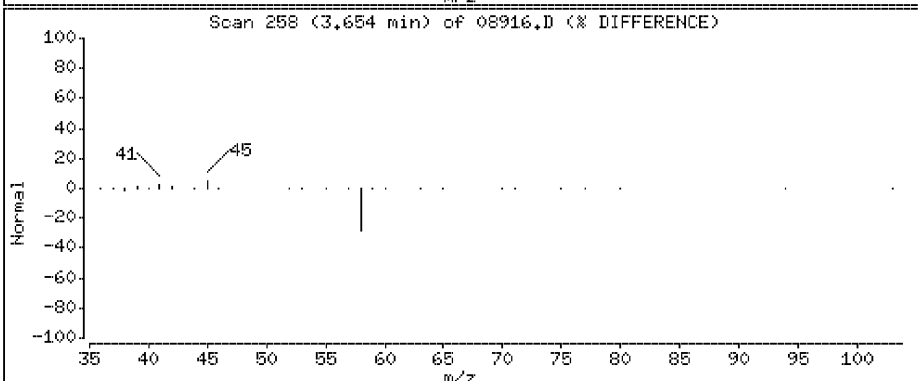
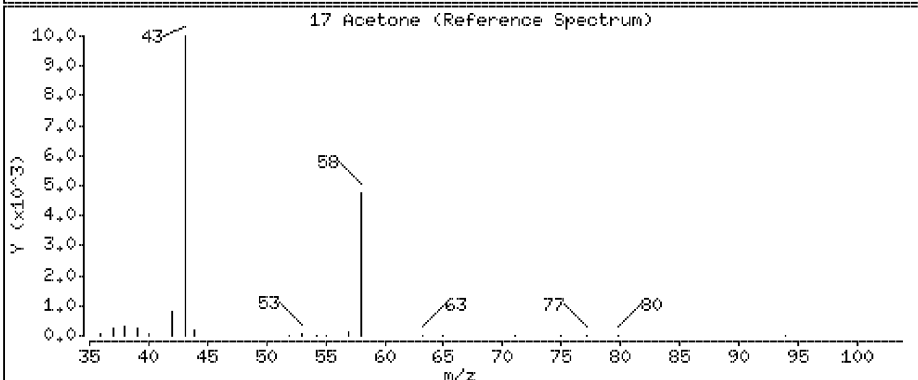
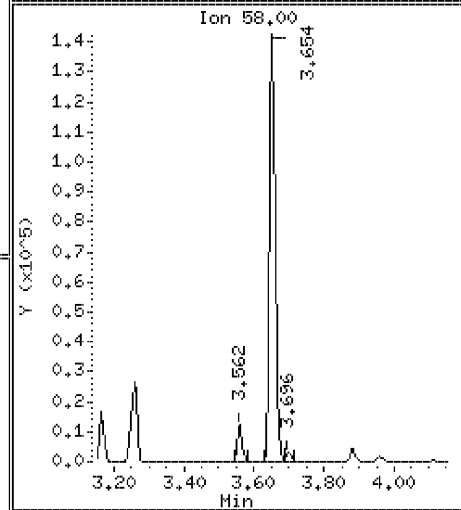
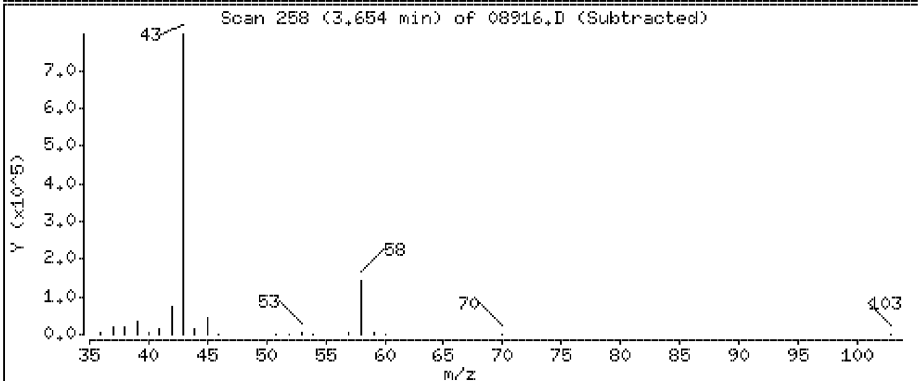
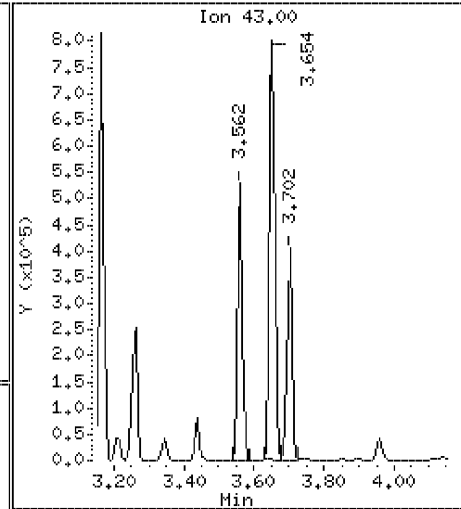
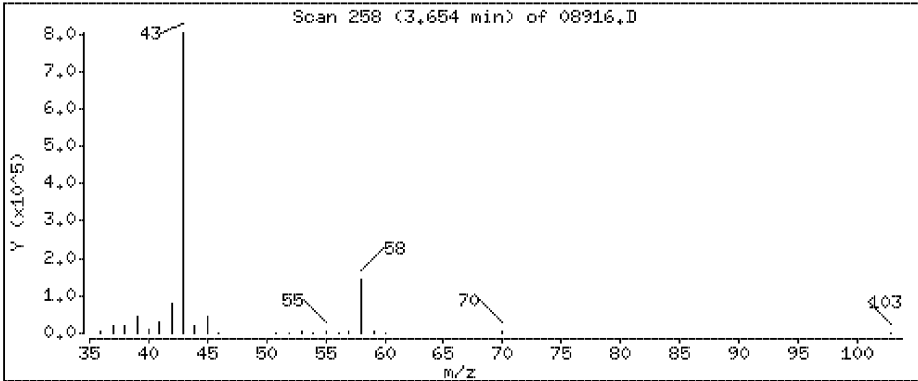
16 Trichlorofluoromethane

Concentration: 0,180 ppbv



17 Acetone

Concentration: 15.0 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

Sample Info:

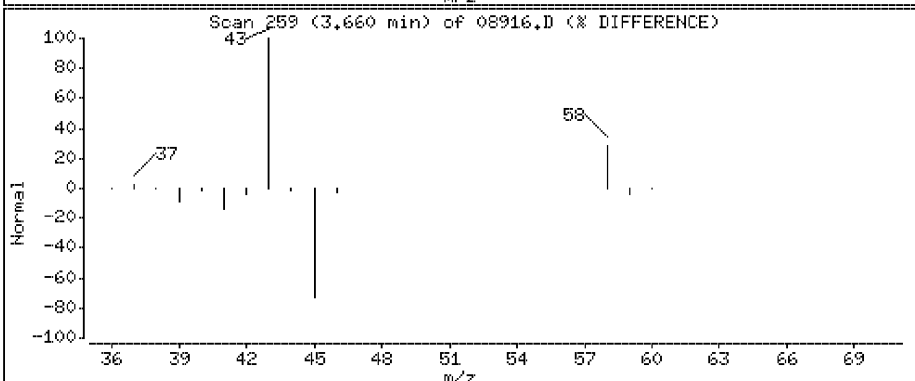
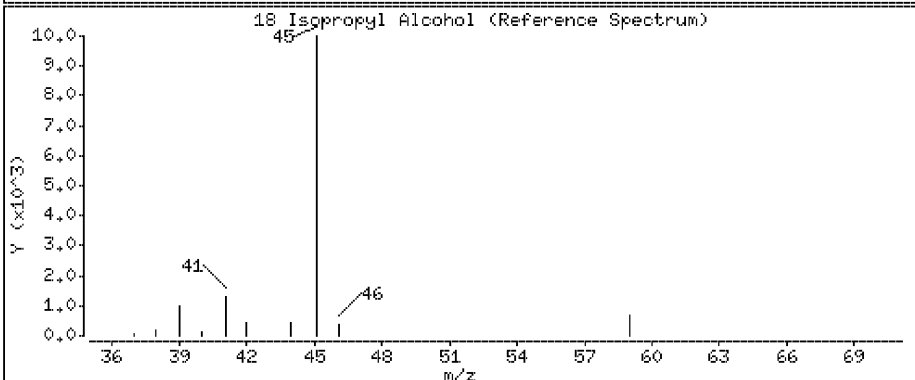
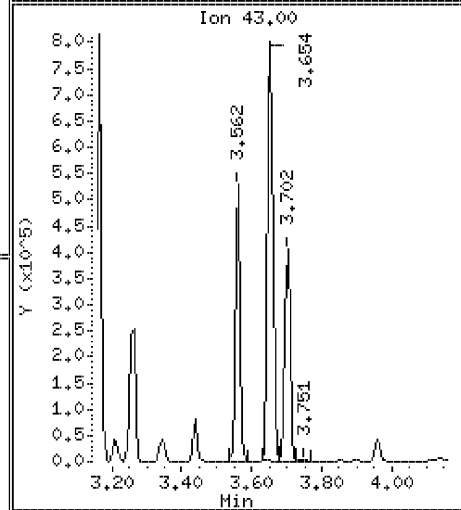
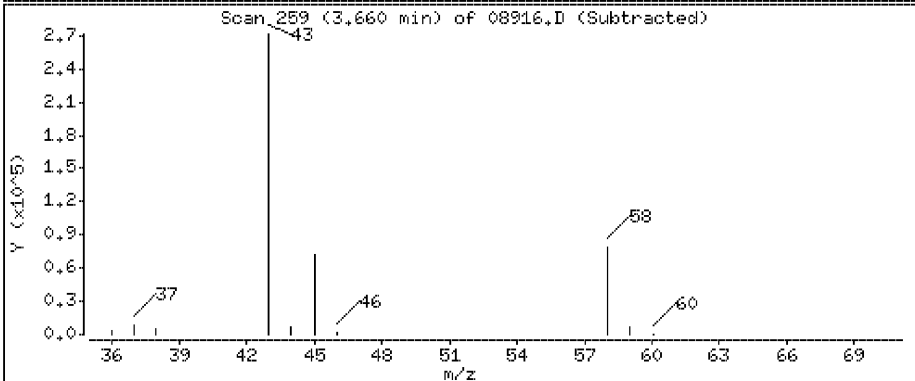
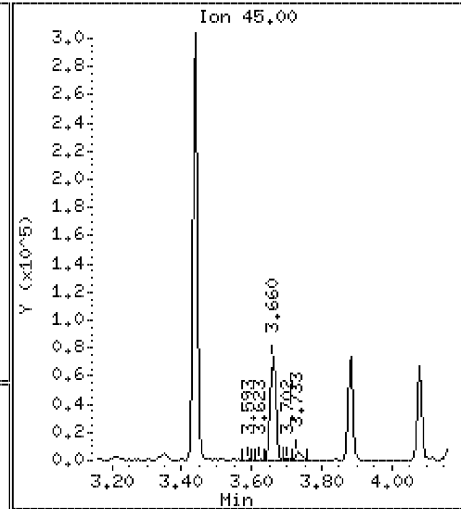
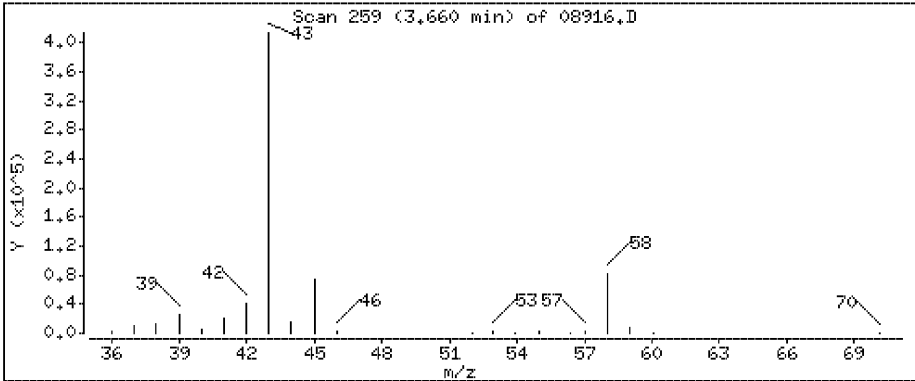
Operator: MJL

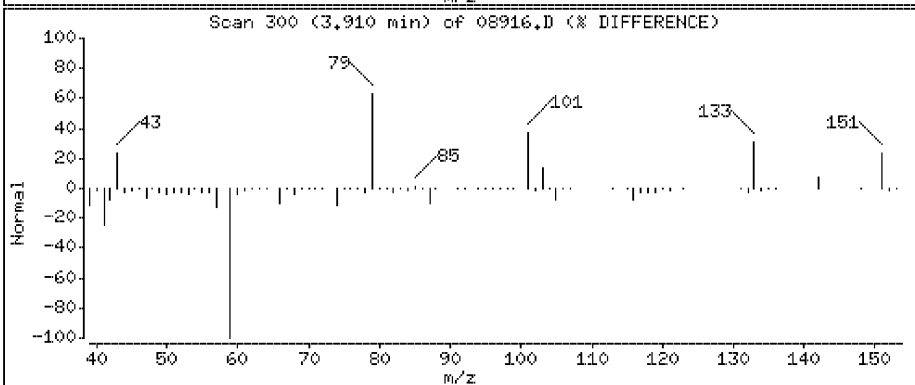
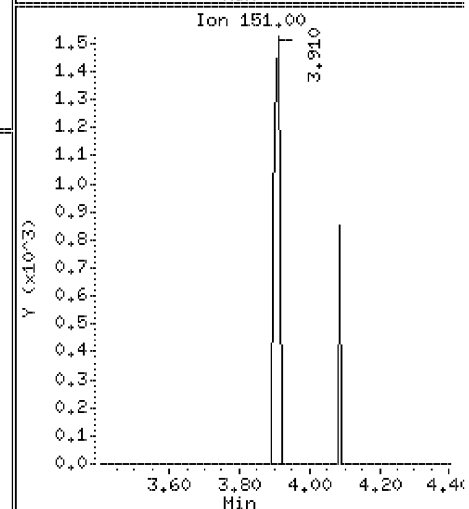
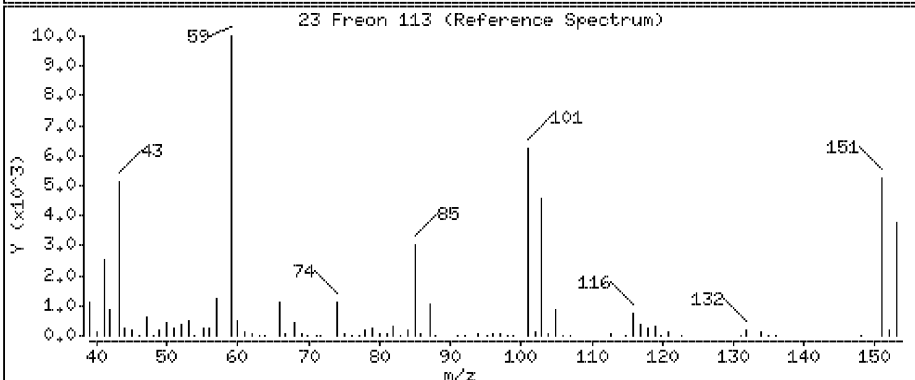
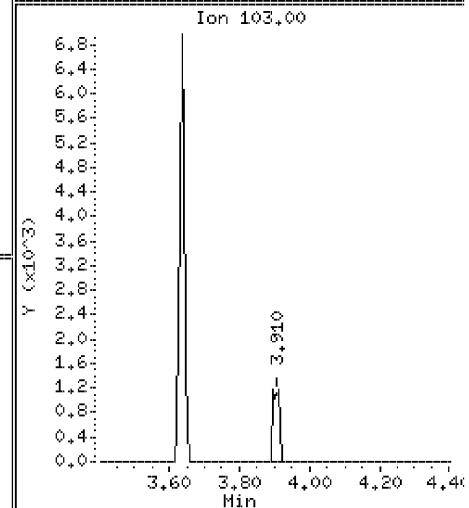
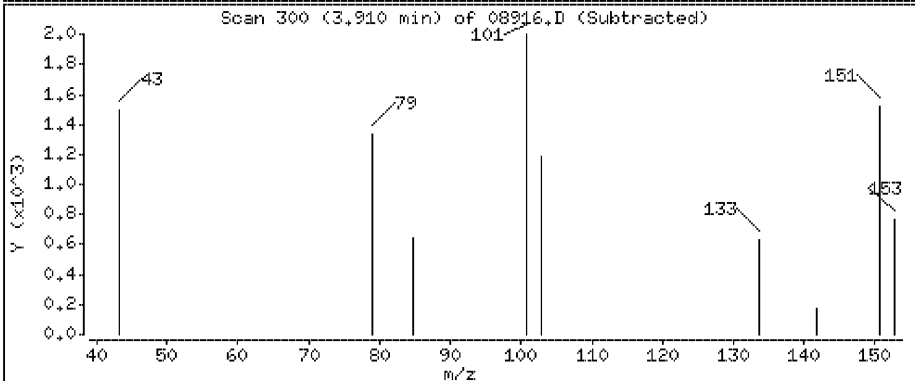
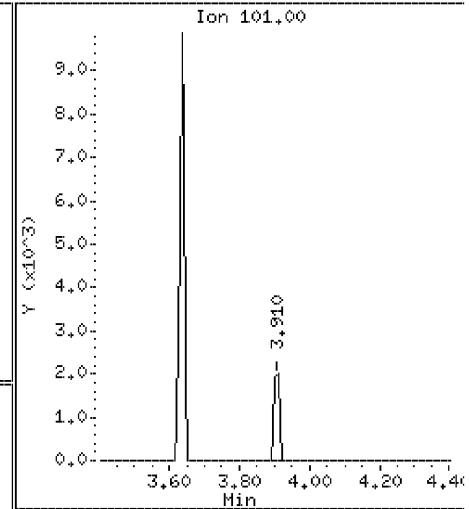
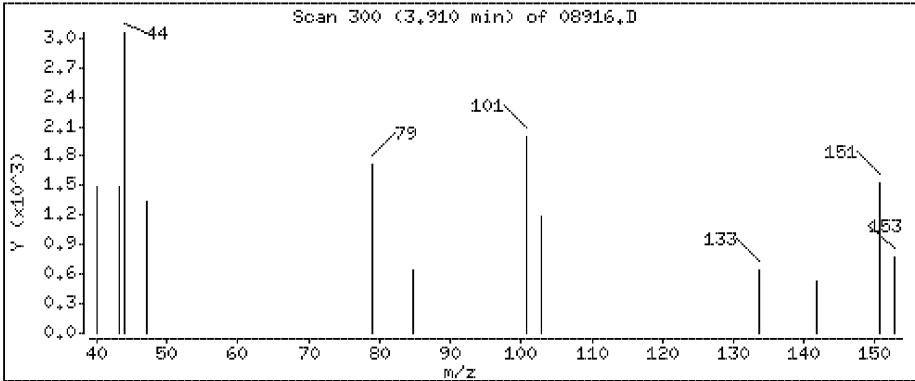
Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

18 Isopropyl Alcohol

Concentration: 1.96 ppbv





Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

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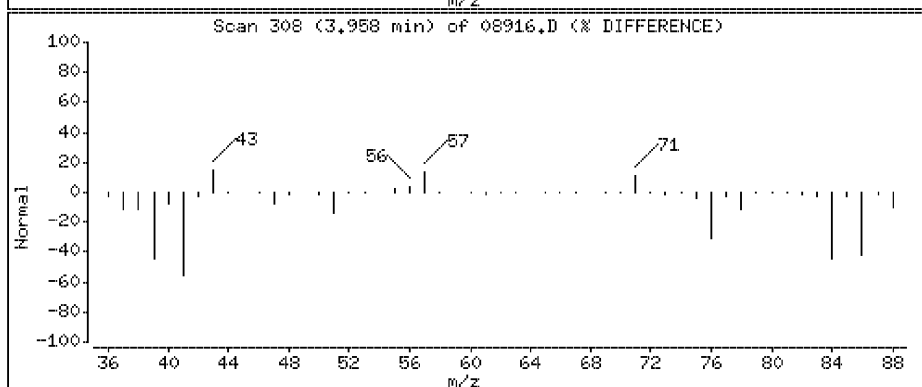
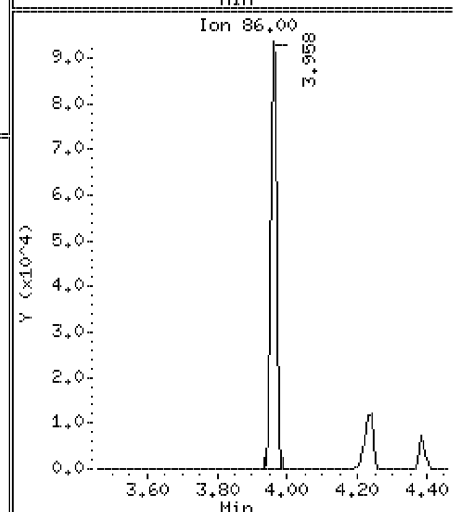
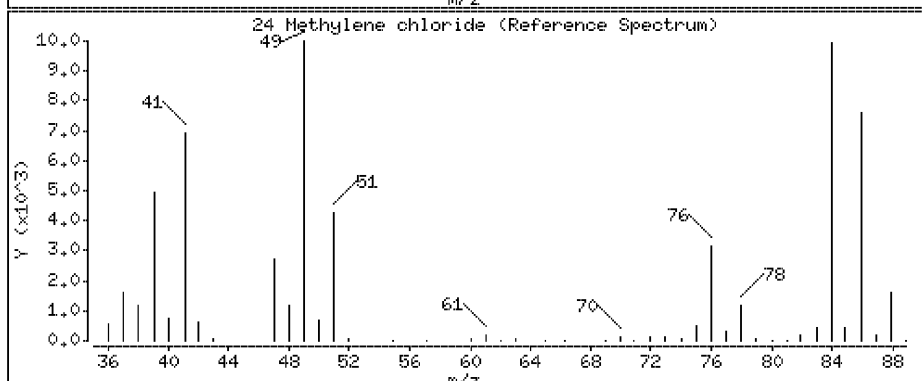
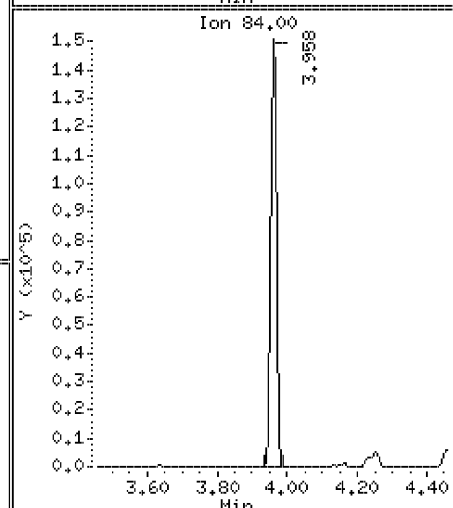
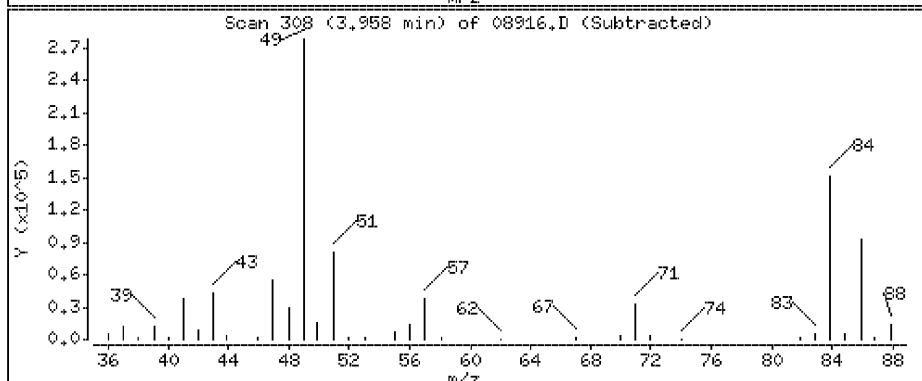
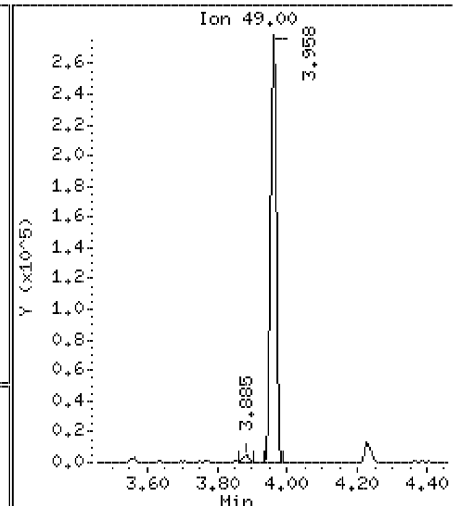
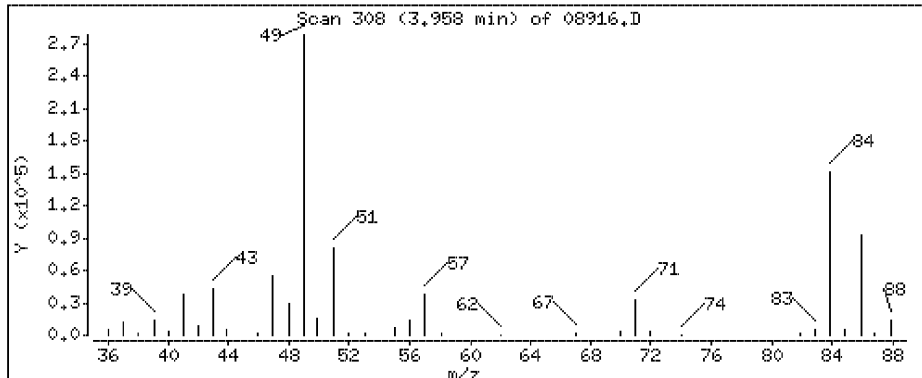
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

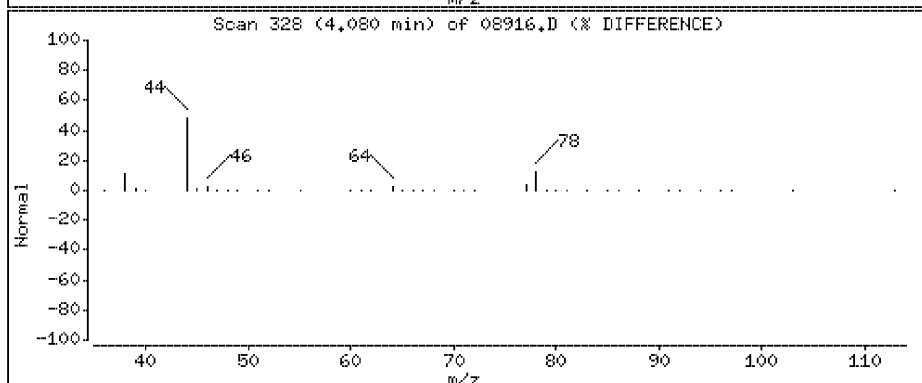
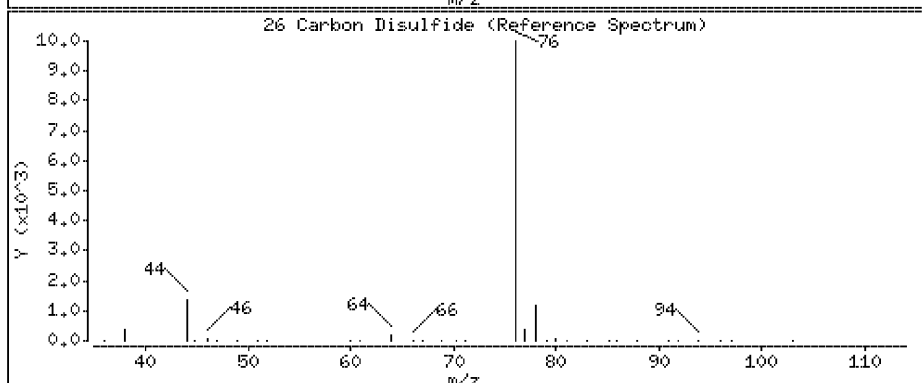
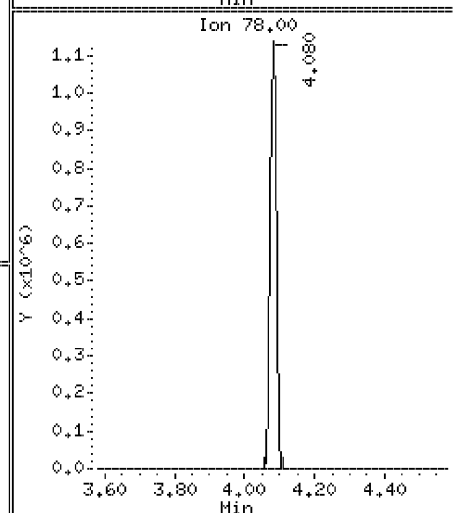
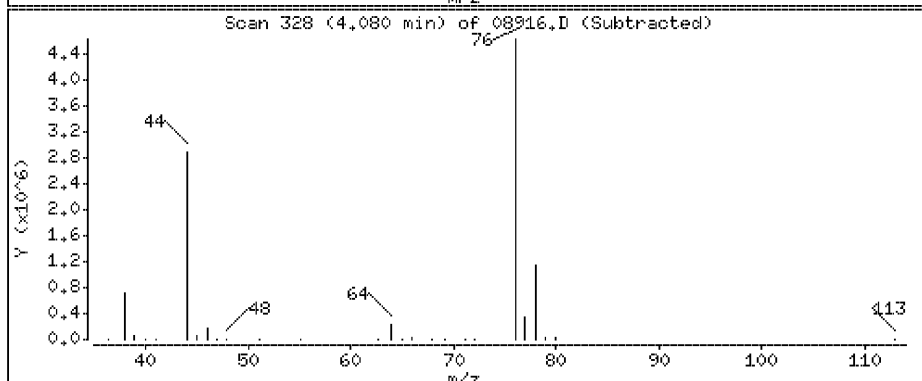
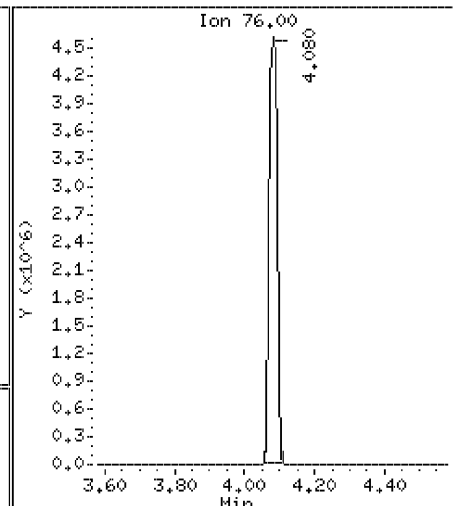
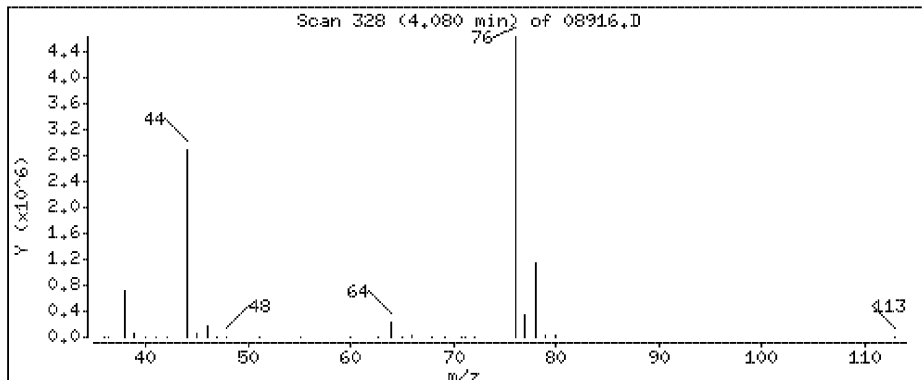
24 Methylene chloride

Concentration: 8.37 ppbv



26 Carbon Disulfide

Concentration: 127 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

Sample Info:

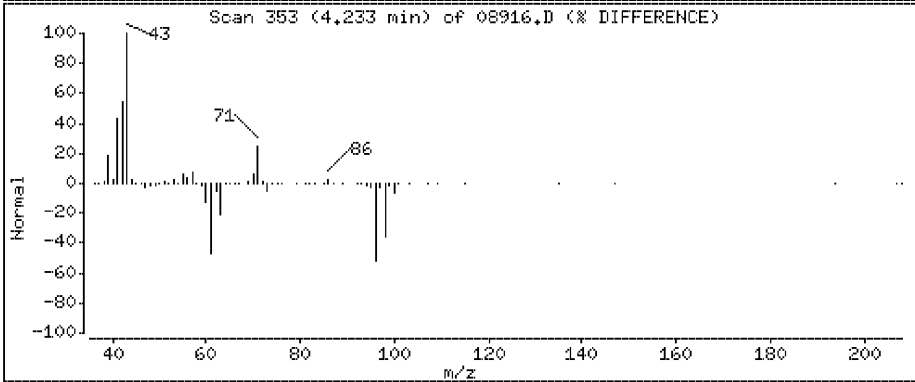
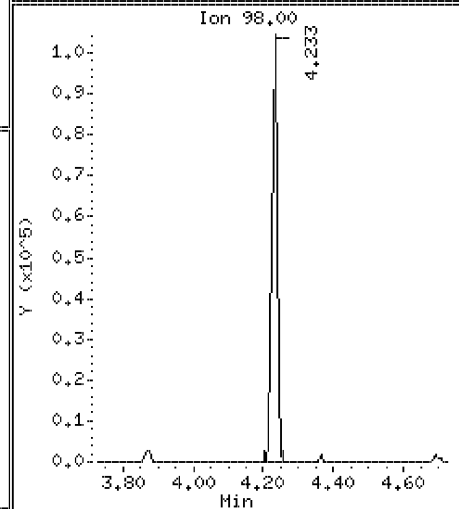
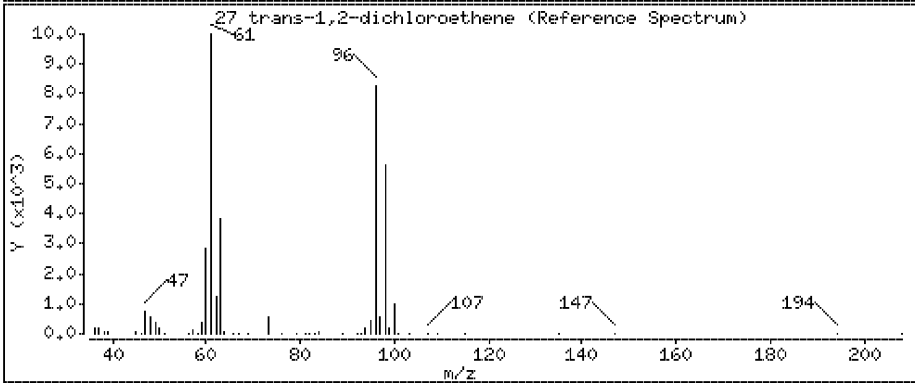
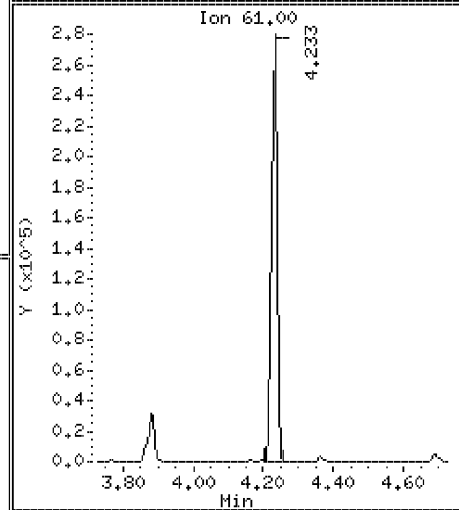
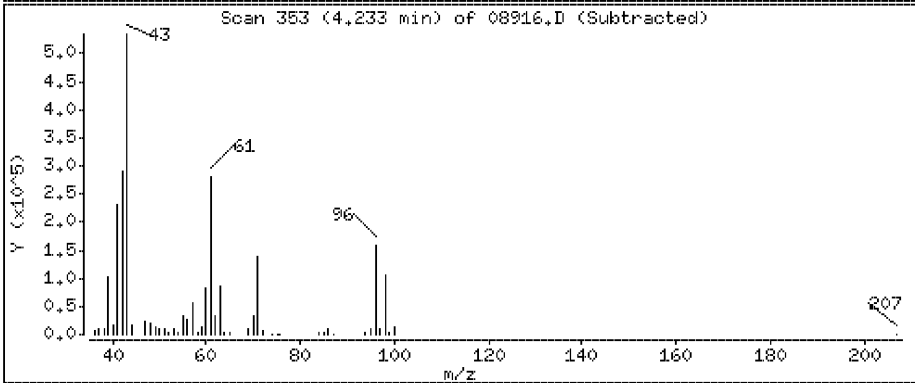
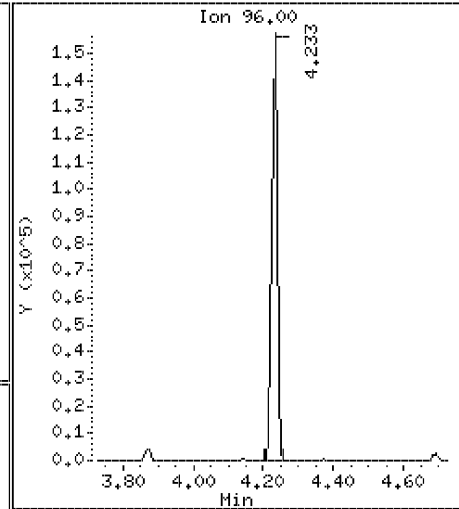
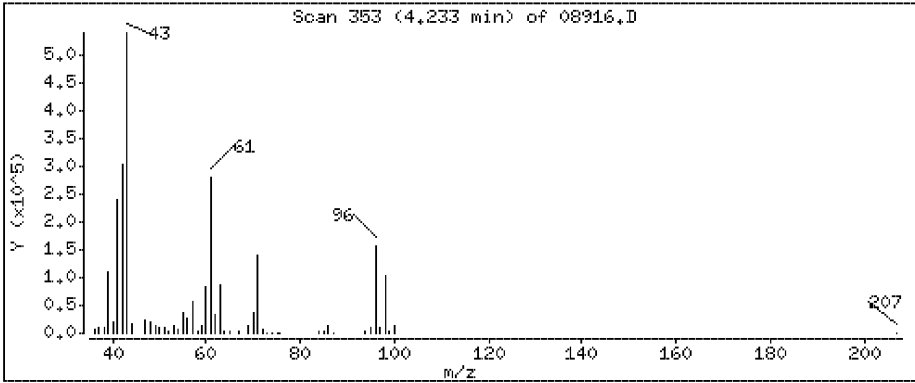
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

27 trans-1,2-dichloroethene

Concentration: 8,20 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

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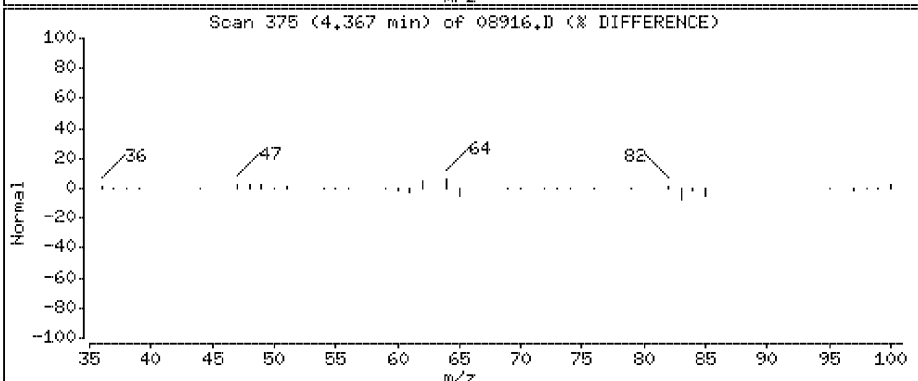
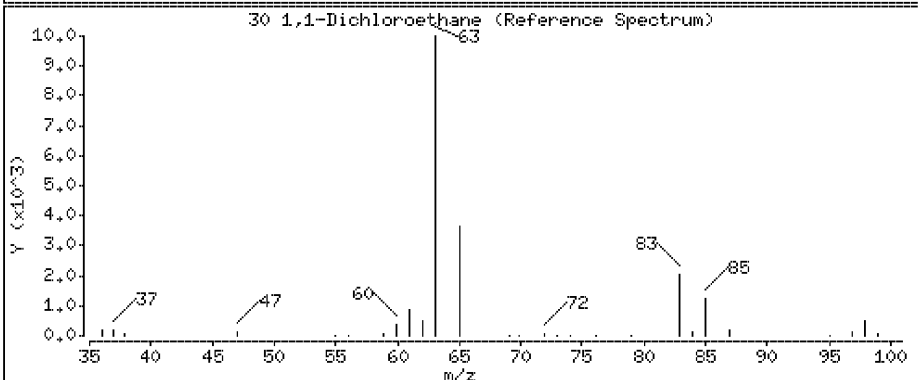
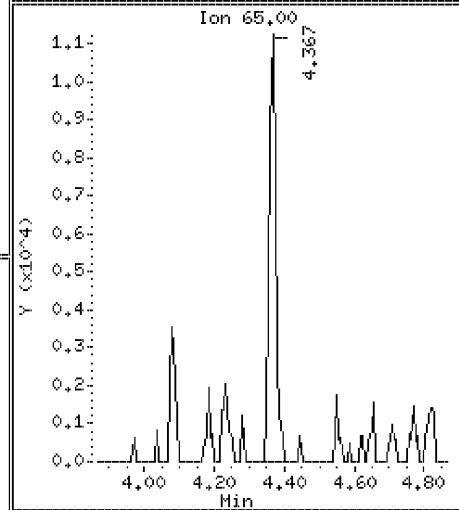
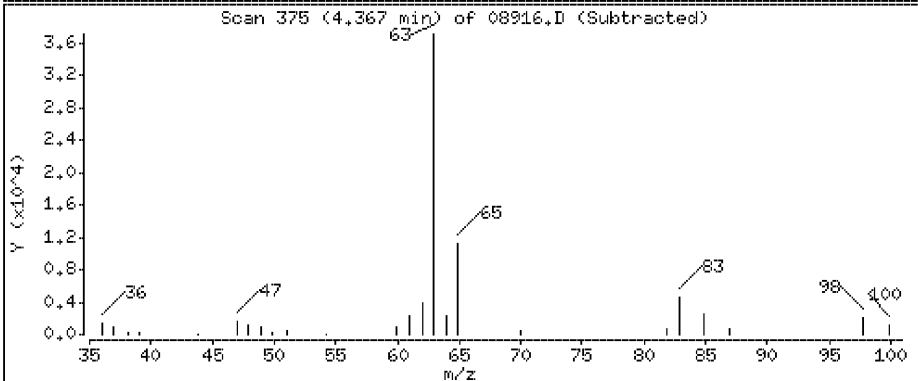
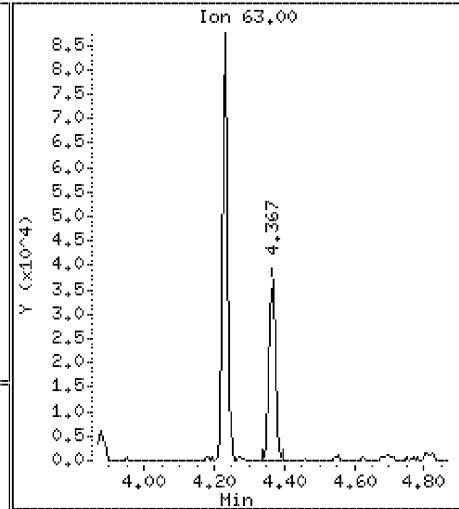
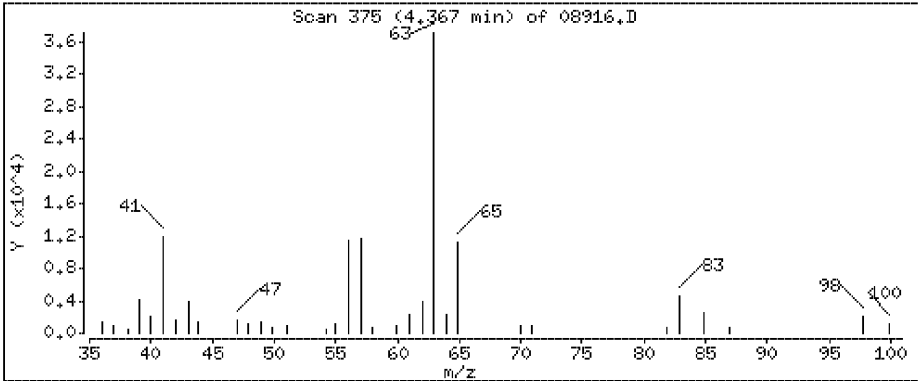
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

30 1,1-Dichloroethane

Concentration: 1.06 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

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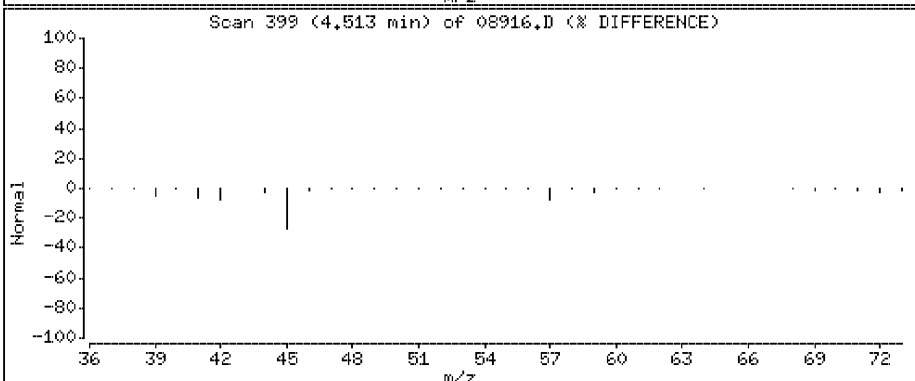
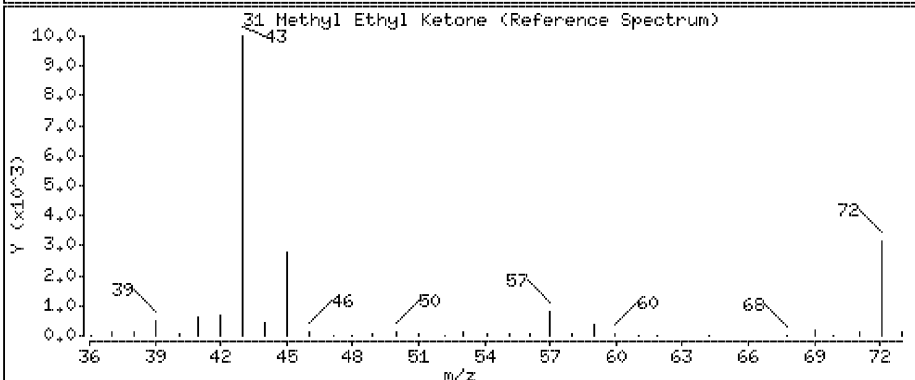
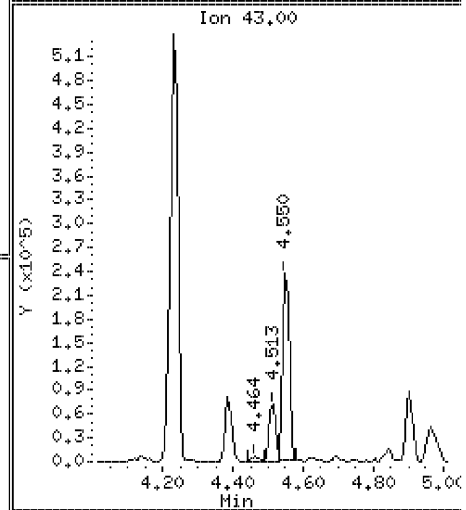
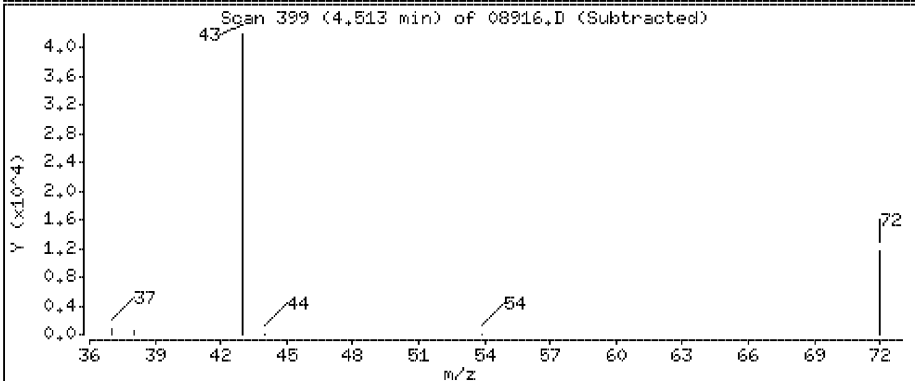
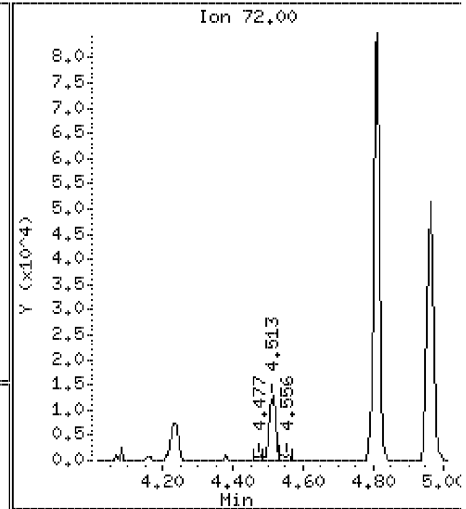
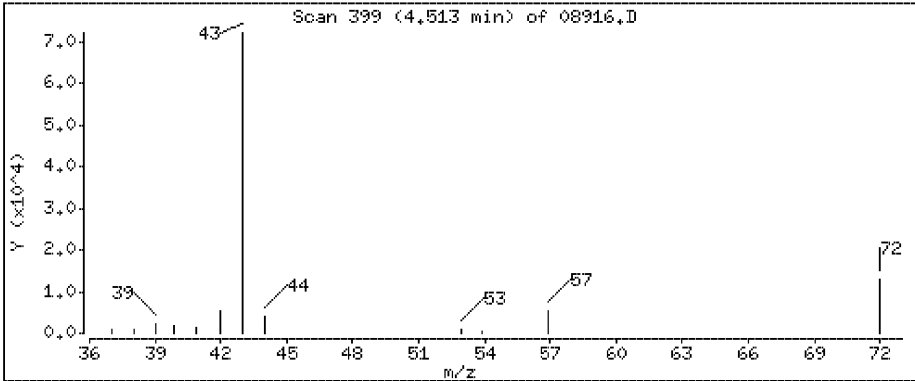
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

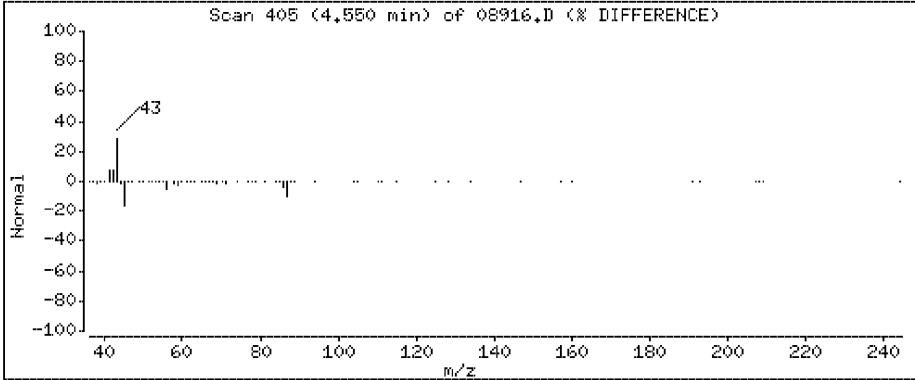
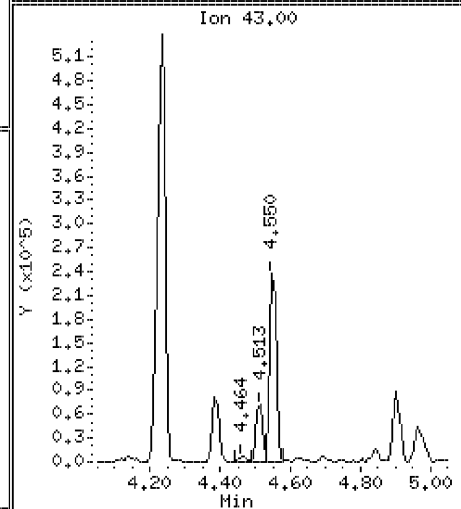
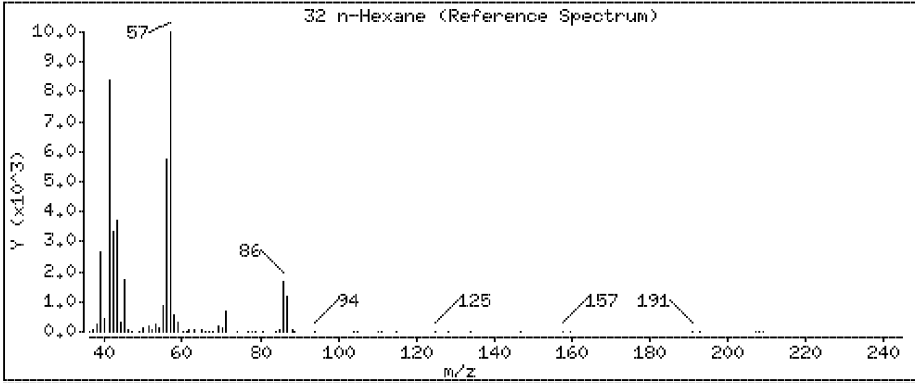
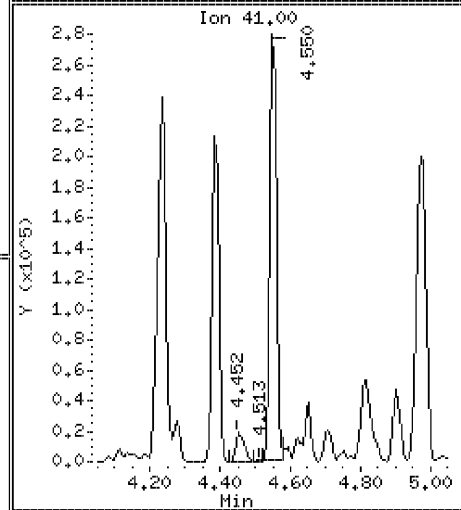
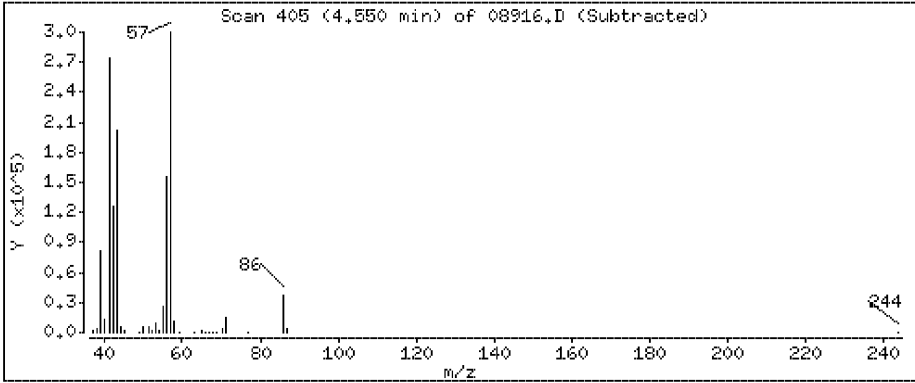
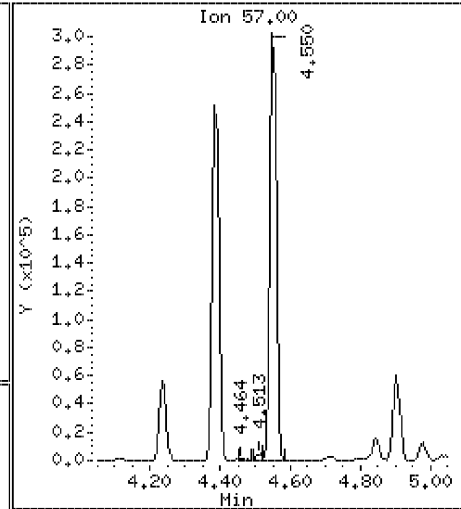
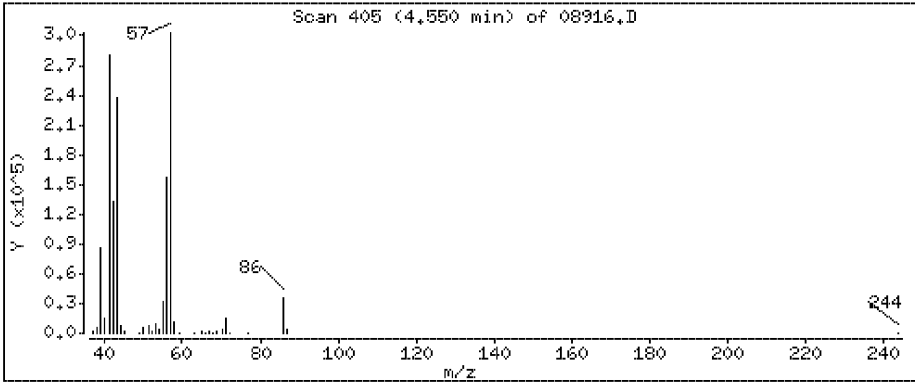
31 Methyl Ethyl Ketone

Concentration: 1.22 ppbv



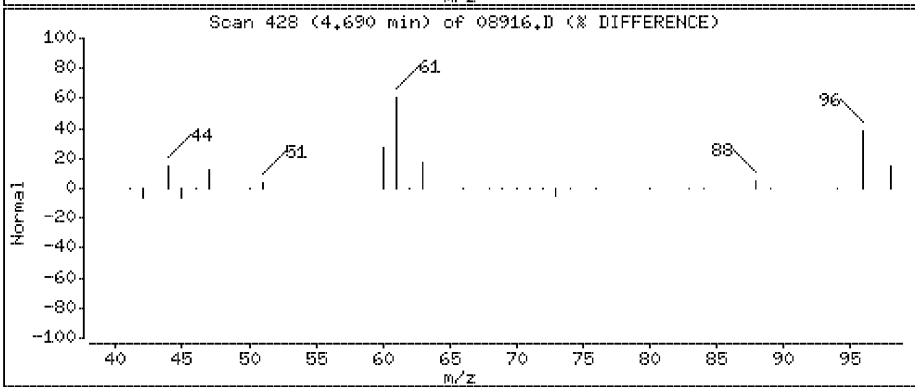
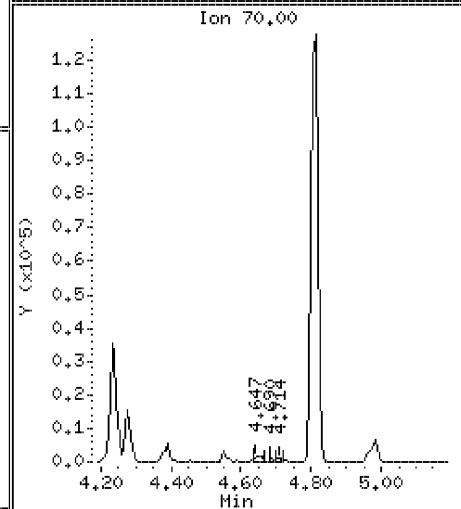
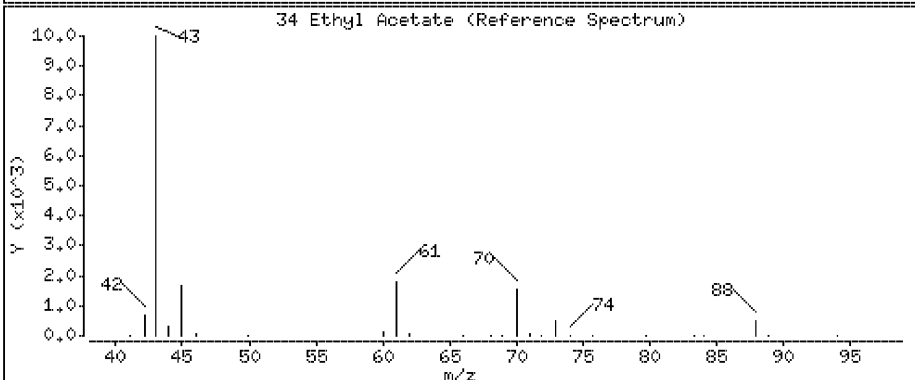
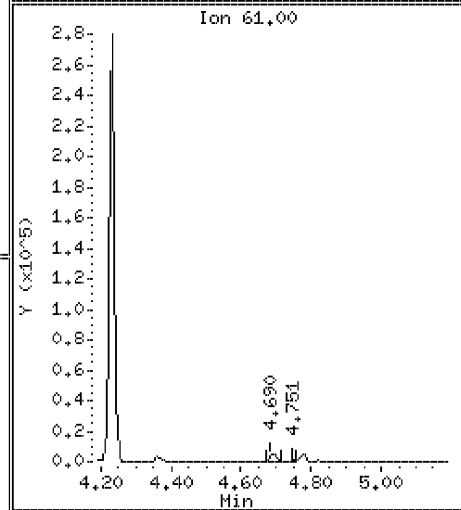
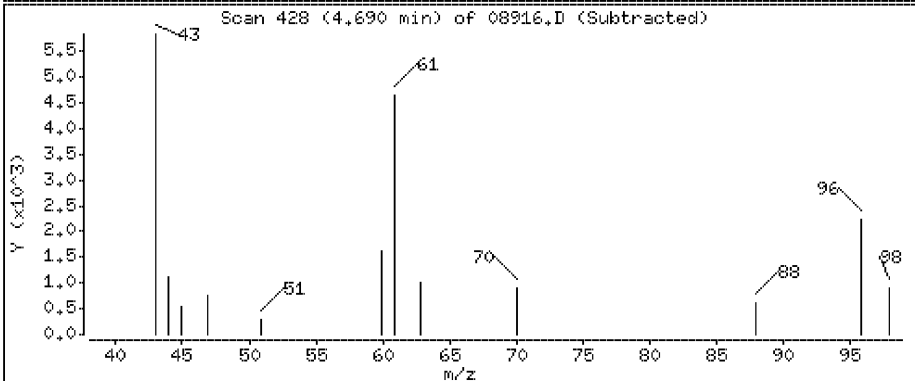
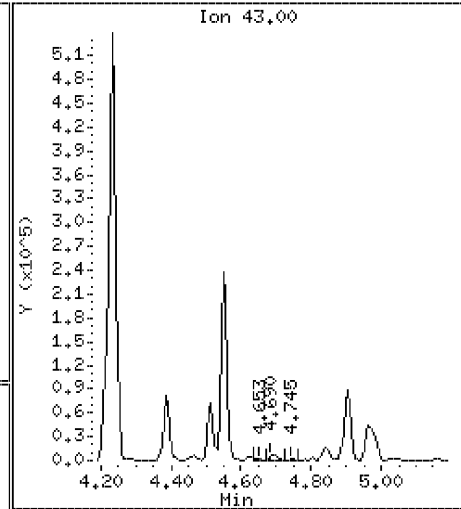
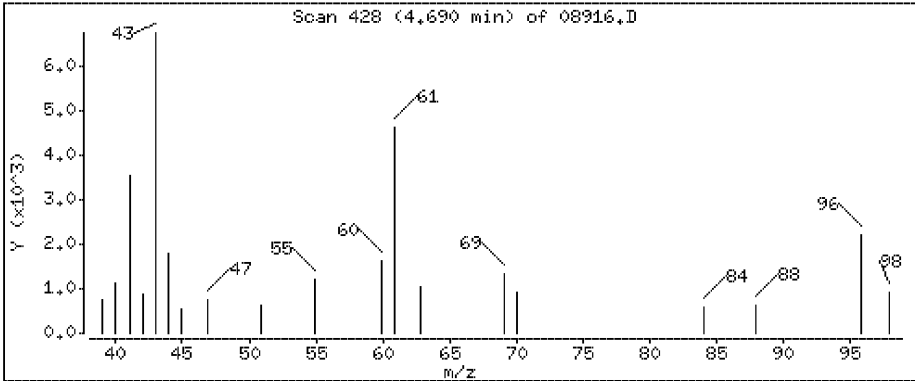
32 n-Hexane

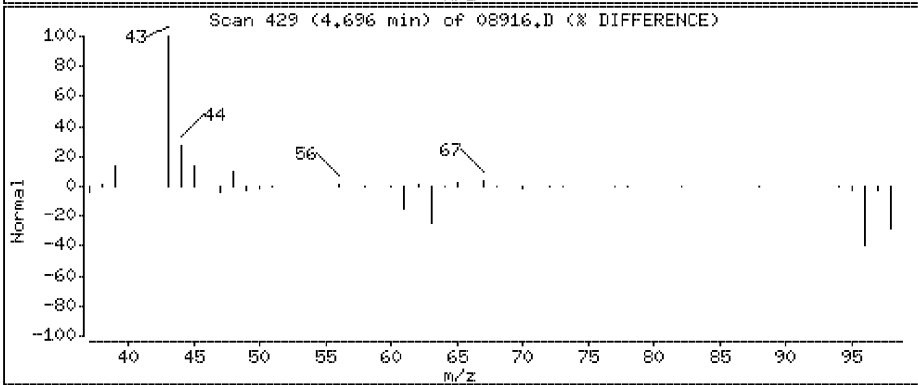
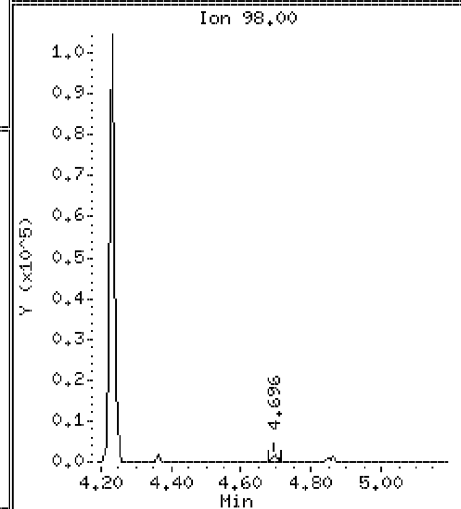
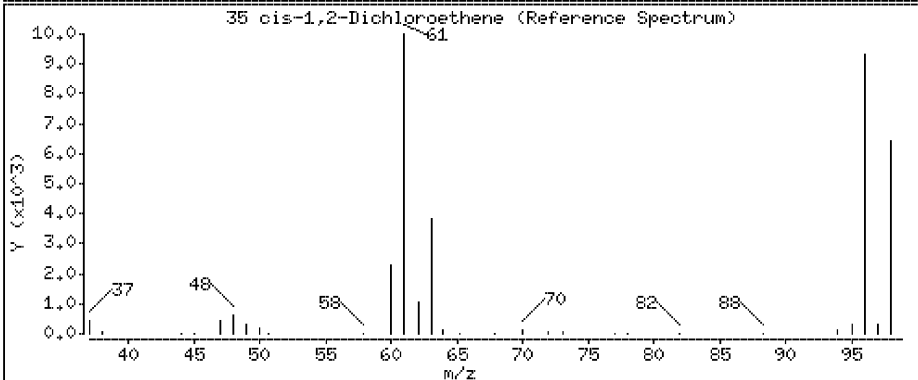
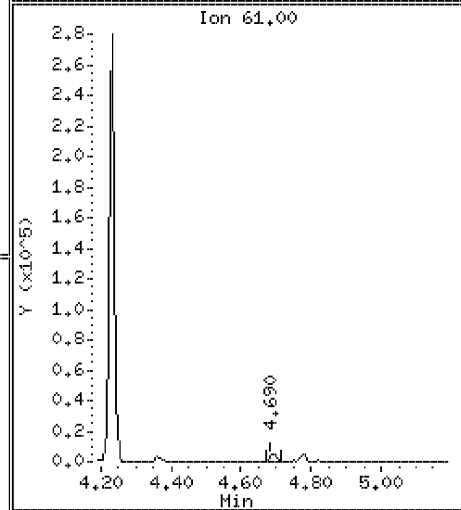
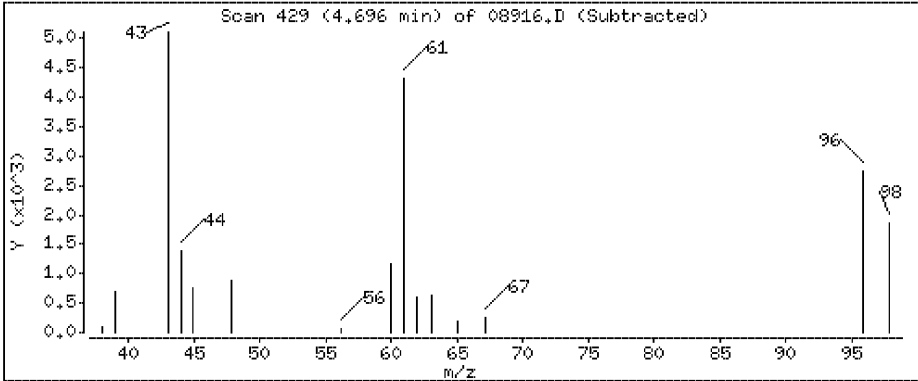
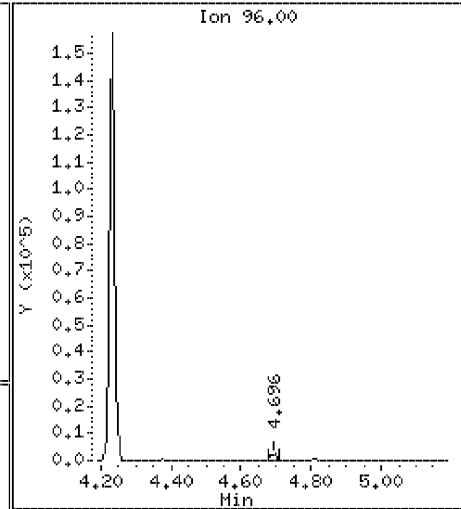
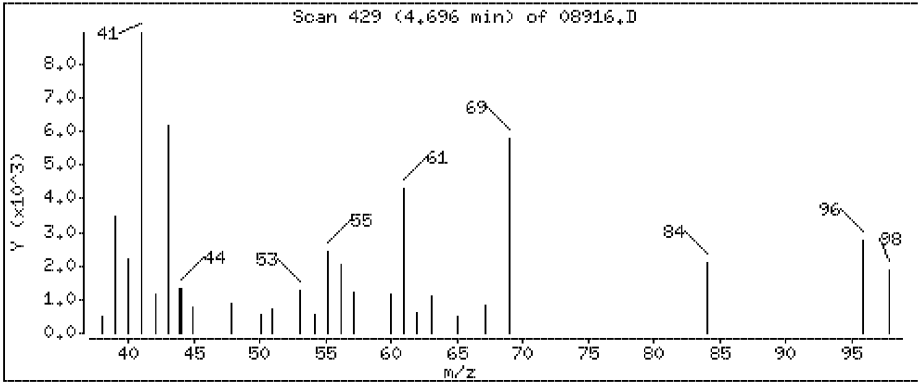
Concentration: 9.21 ppbv



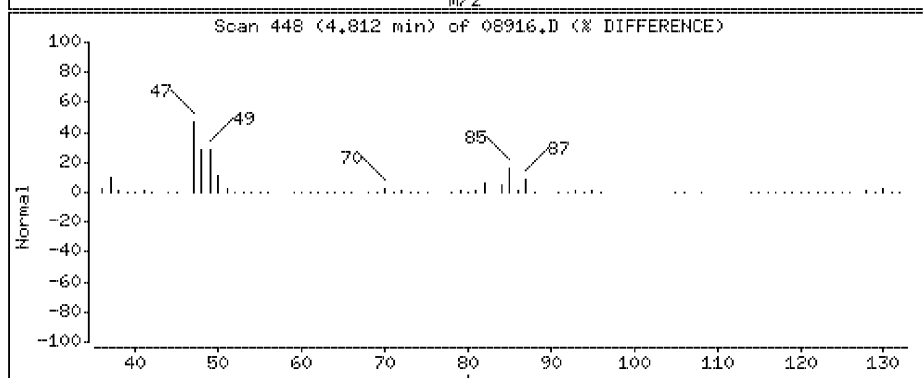
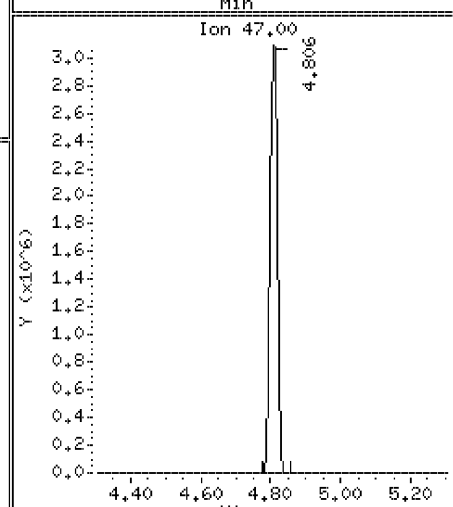
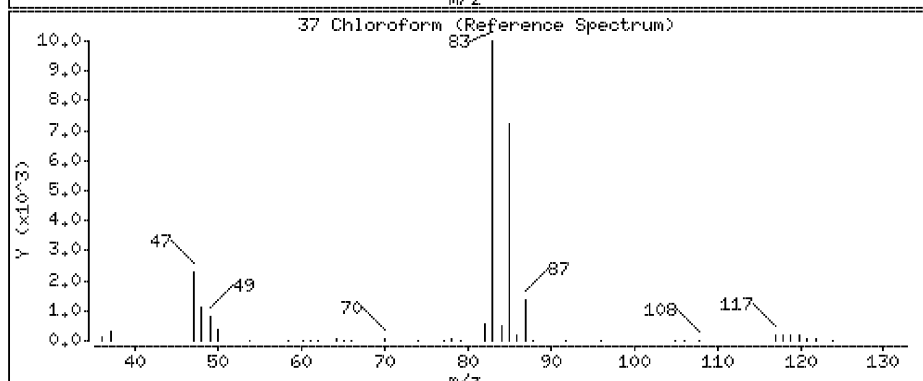
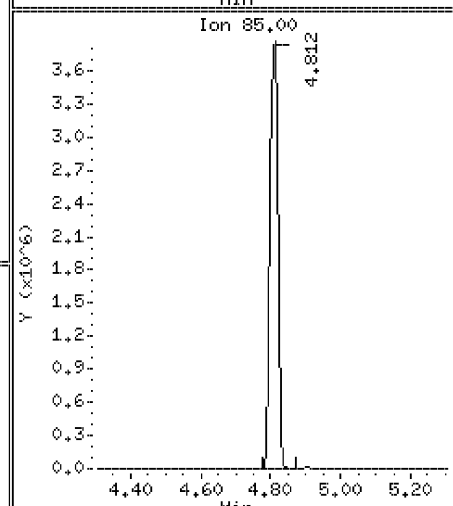
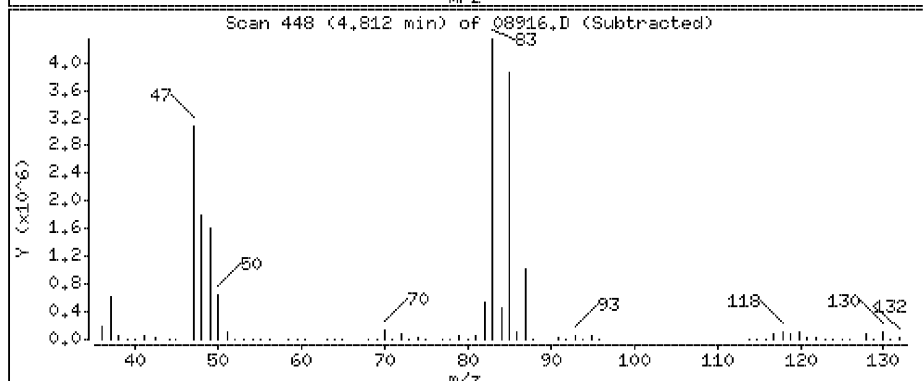
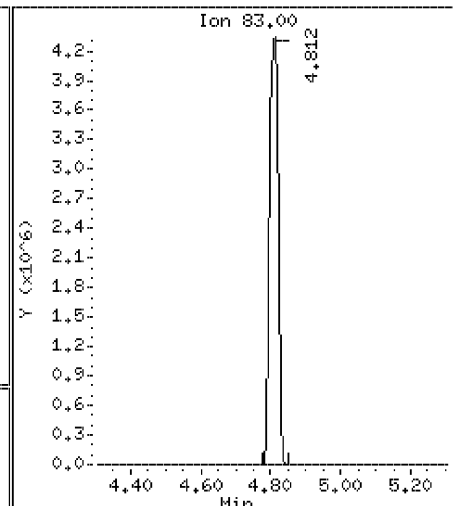
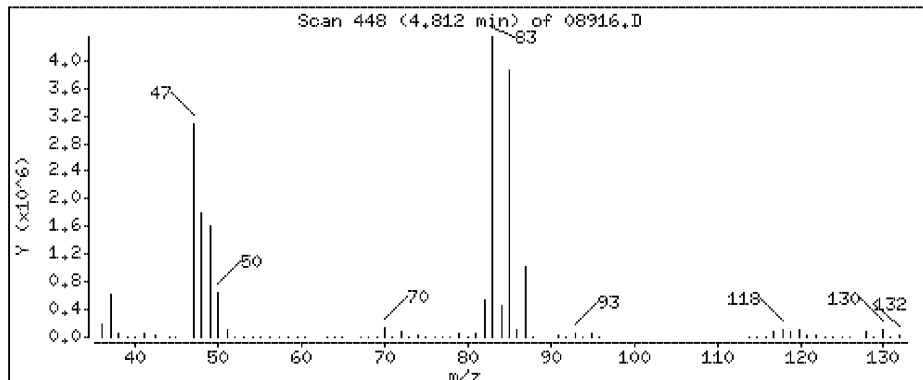
34 Ethyl Acetate

Concentration: 0.146 ppbv





37 Chloroform



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

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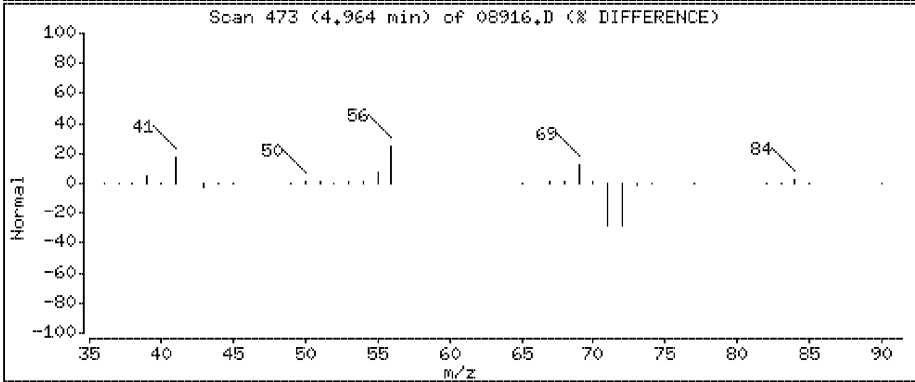
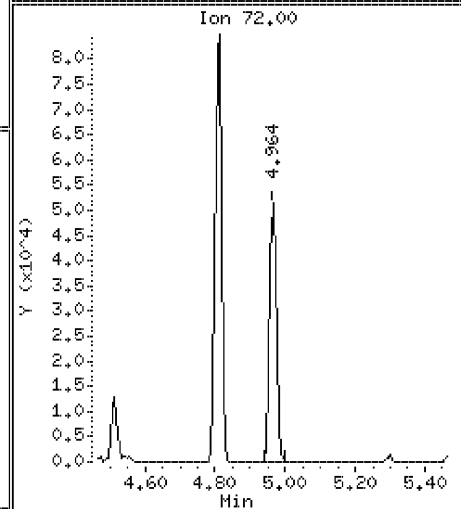
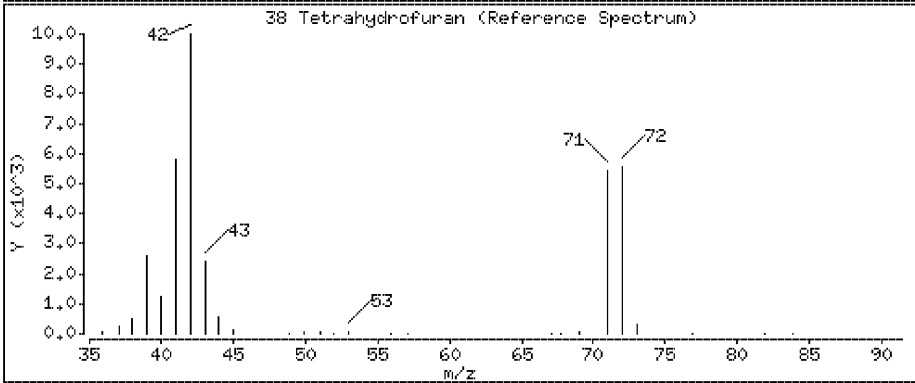
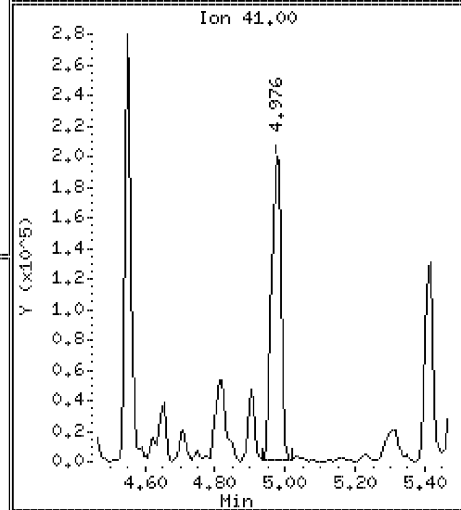
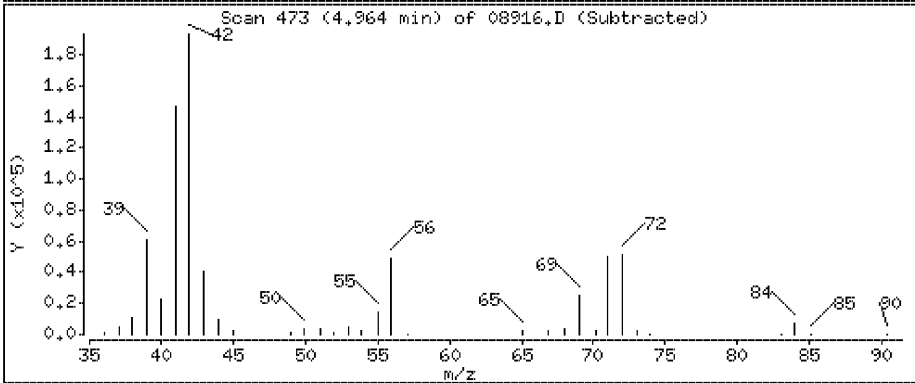
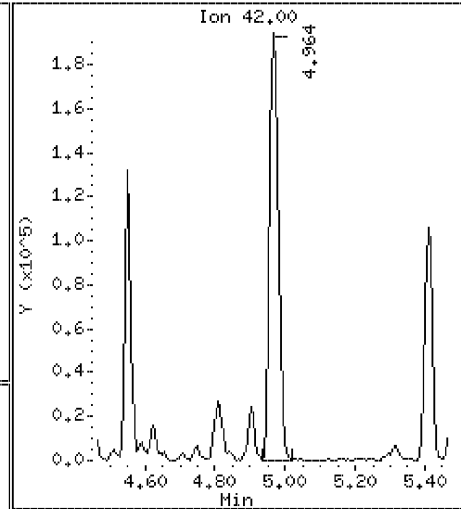
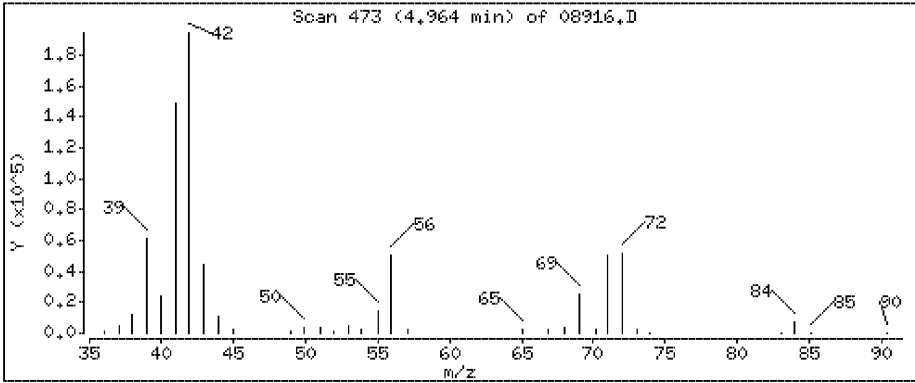
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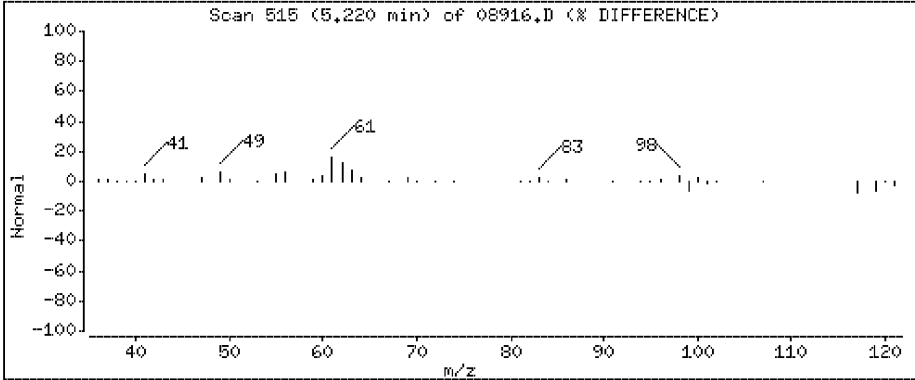
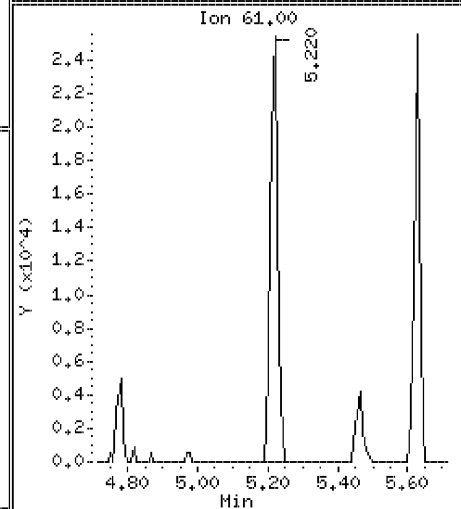
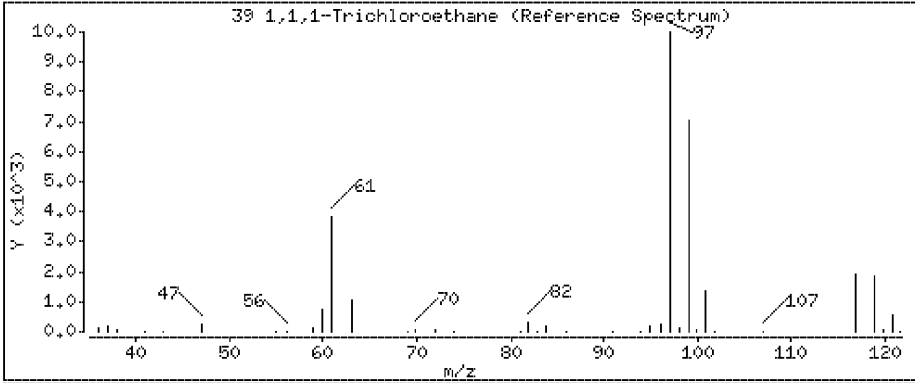
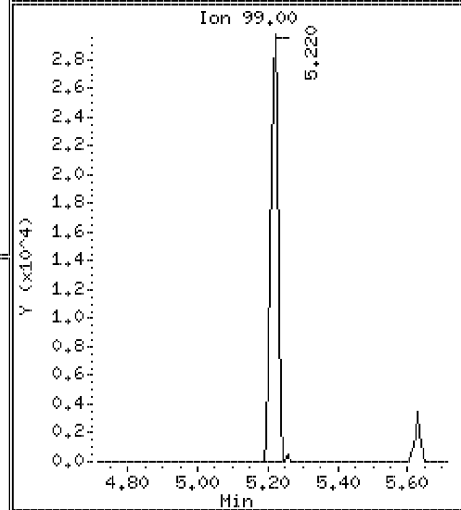
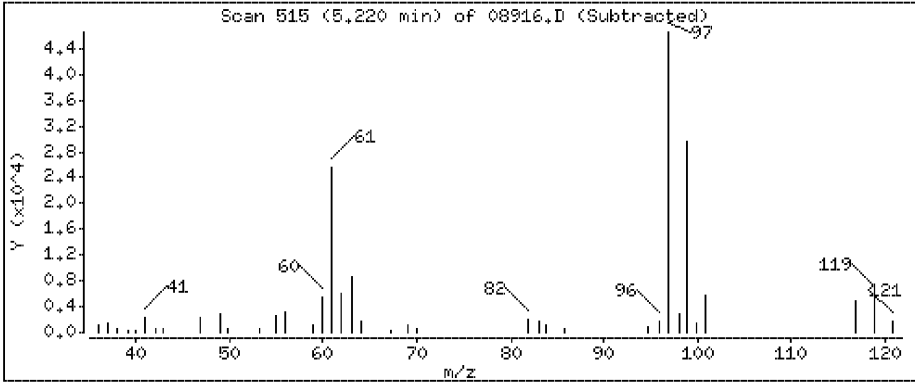
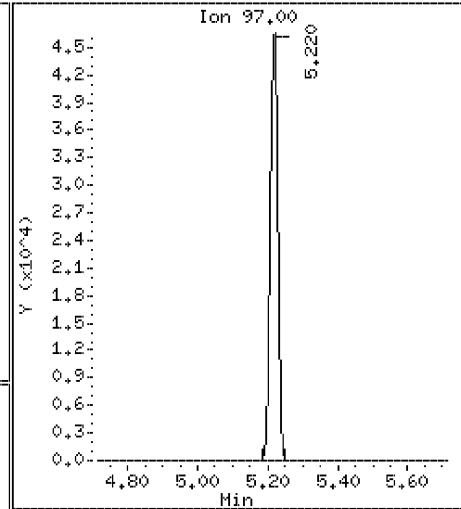
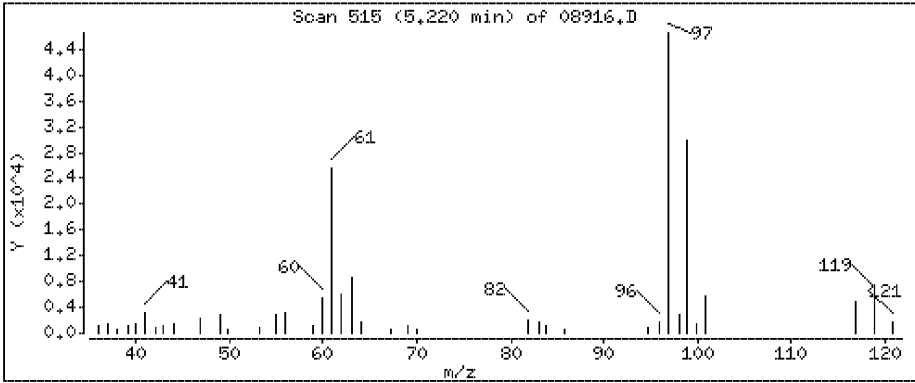
Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

38 Tetrahydrofuran

Concentration: 10,7 ppbv





Data File: \\192.168.10.12\chem\10airI,i\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

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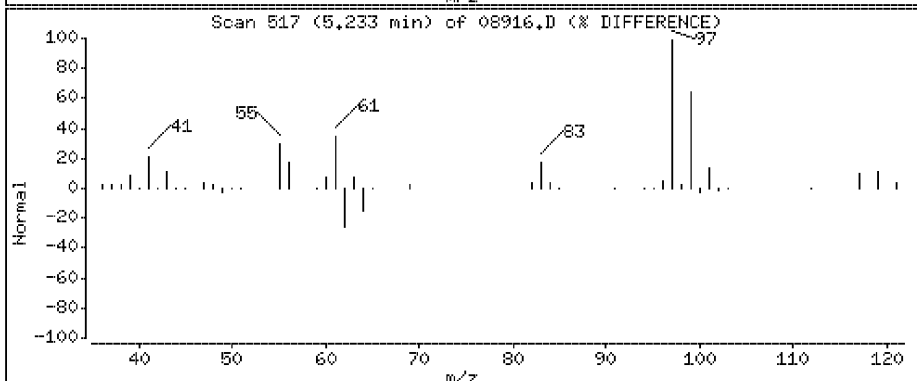
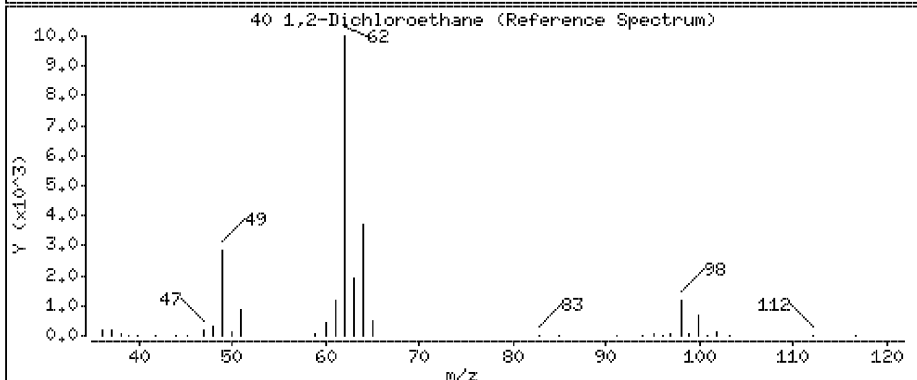
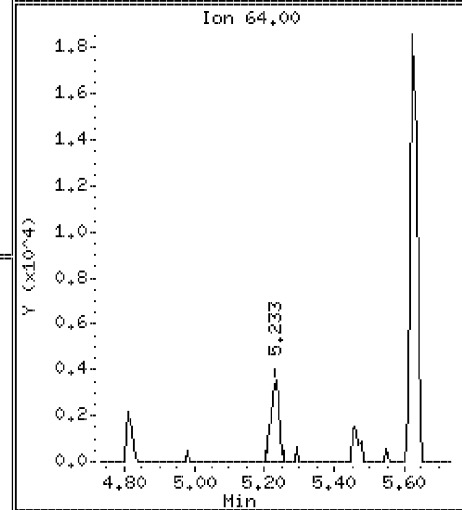
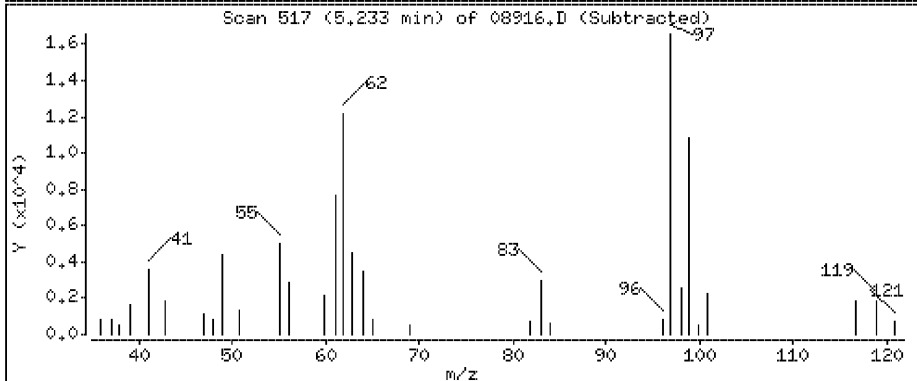
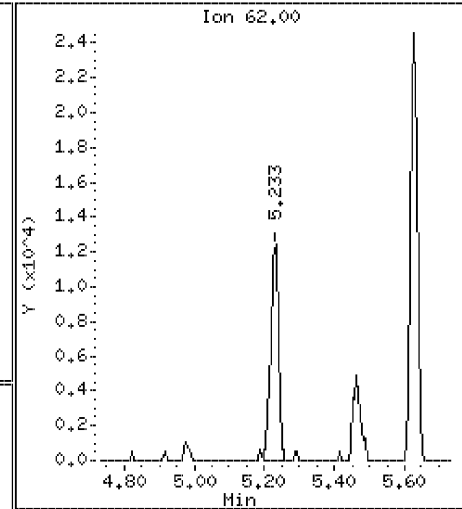
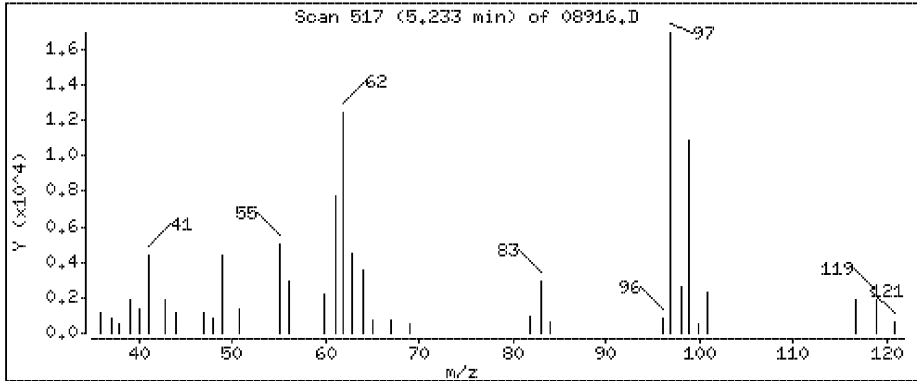
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Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

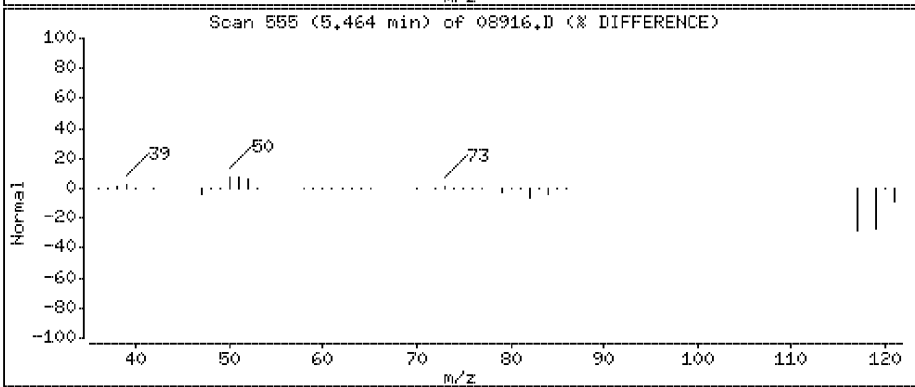
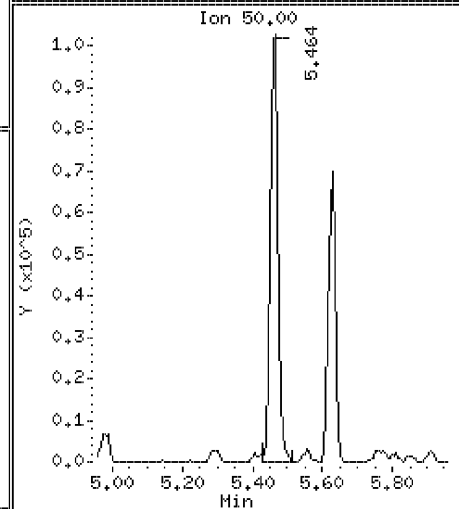
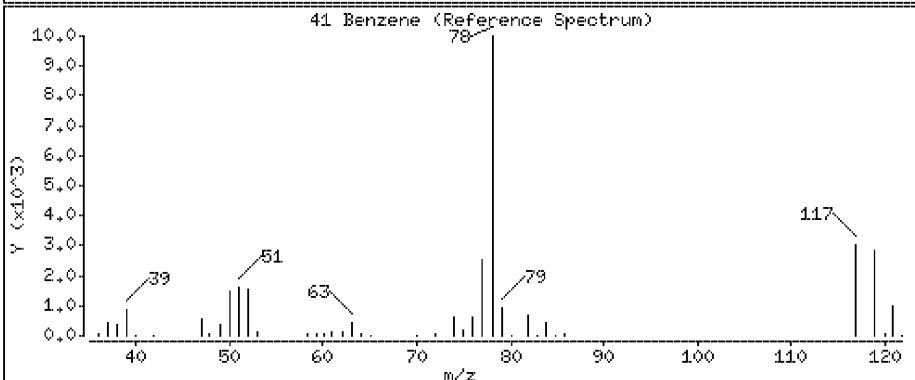
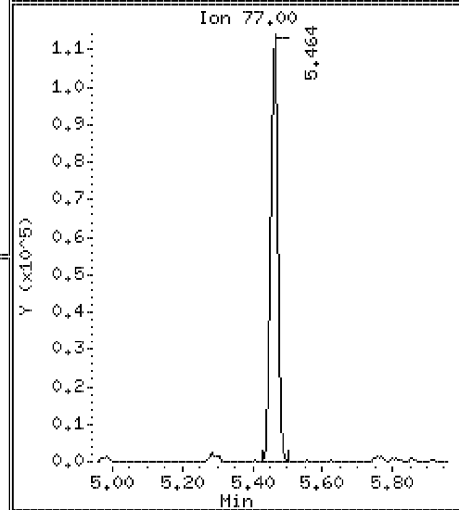
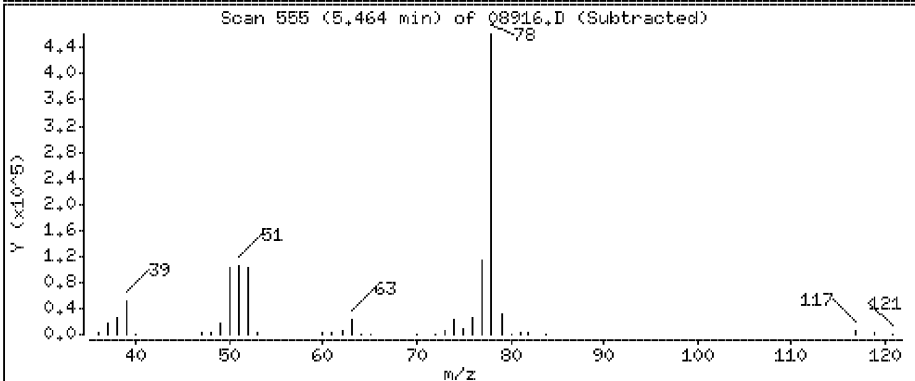
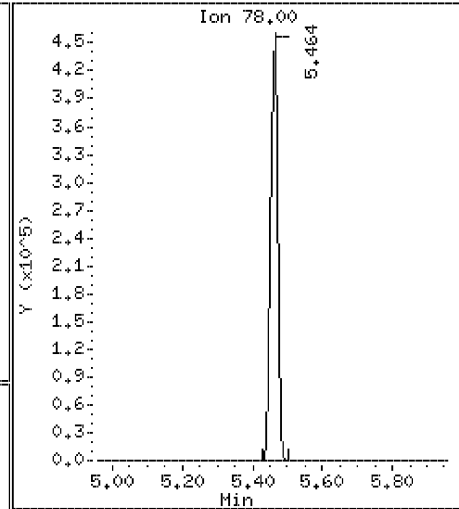
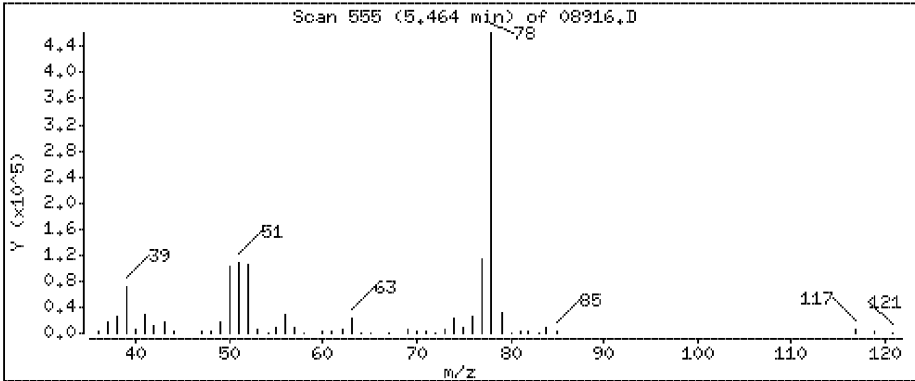
40 1,2-Dichloroethane

Concentration: 0.443 ppbv



41 Benzene

Concentration: 9.93 ppbv



Data File: \\192.168.10.12\chem\10airI.i\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

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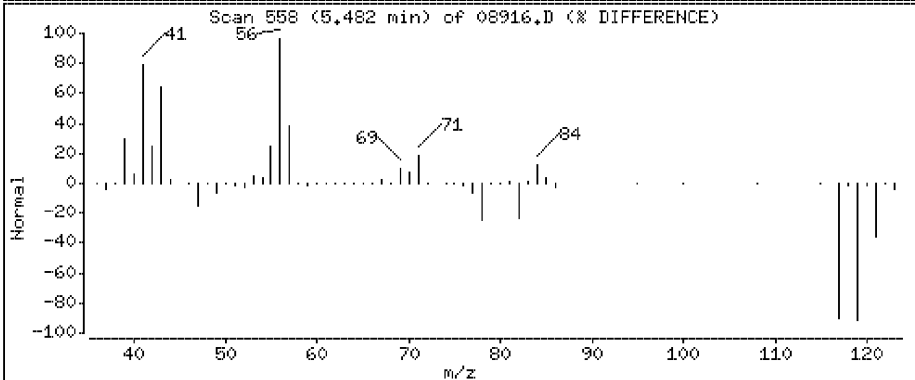
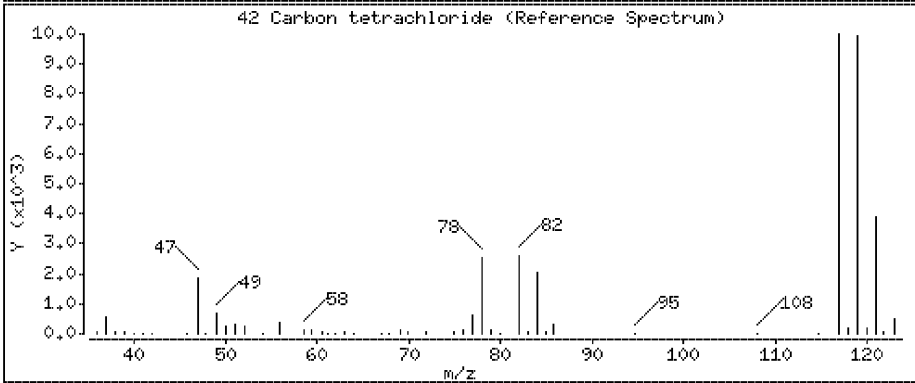
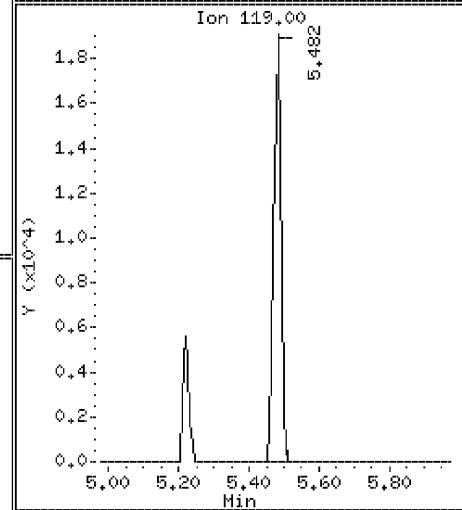
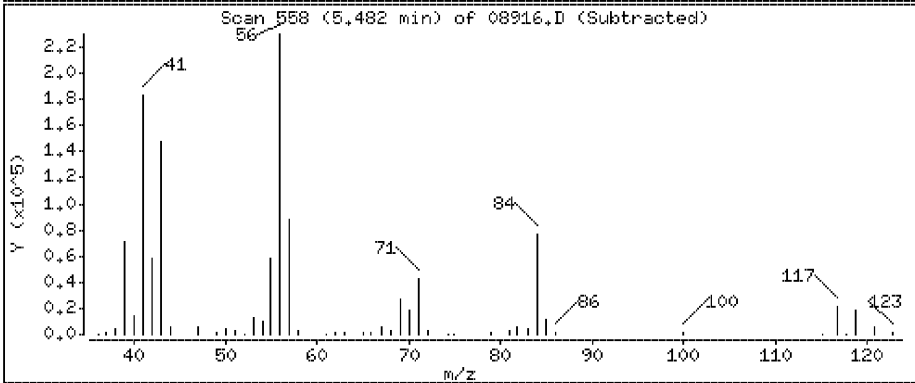
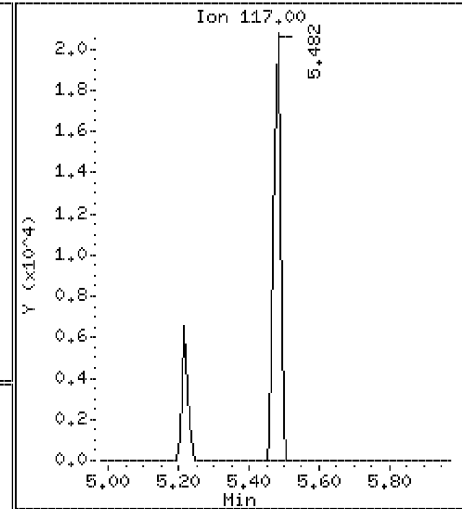
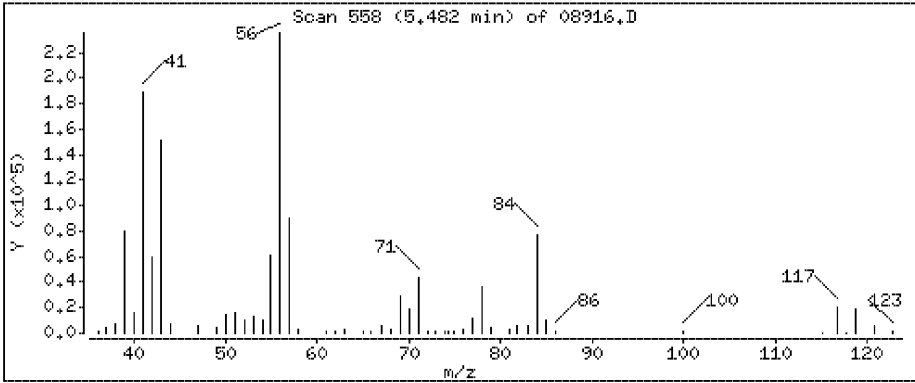
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

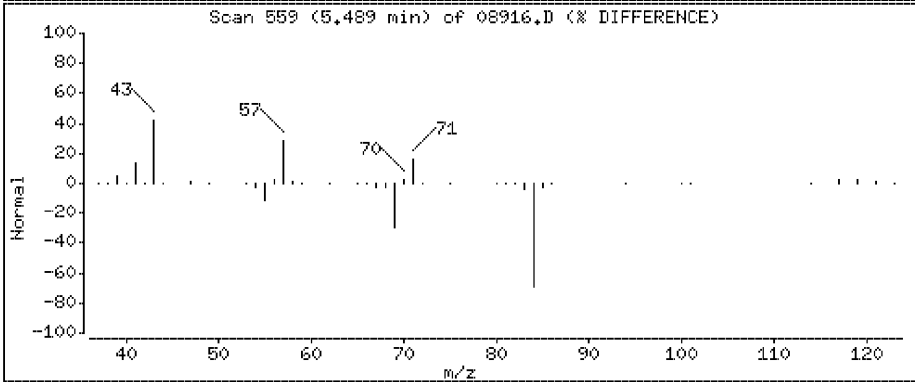
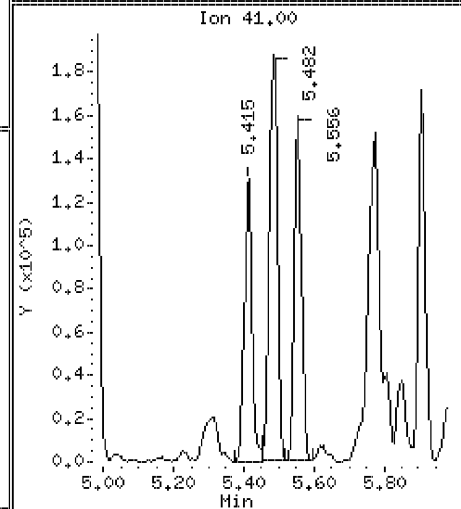
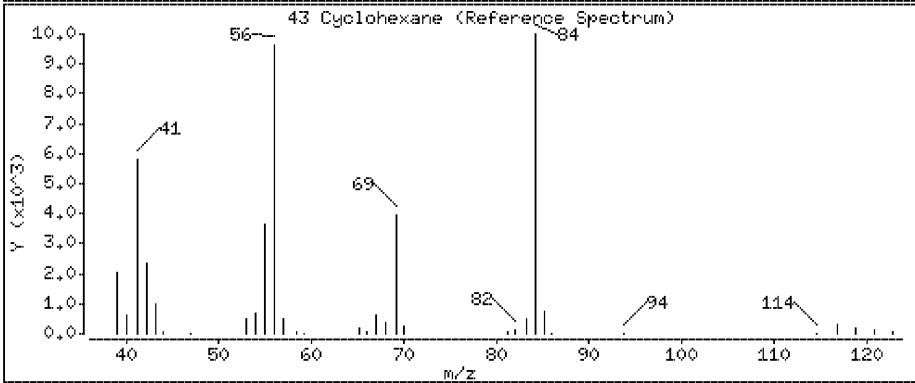
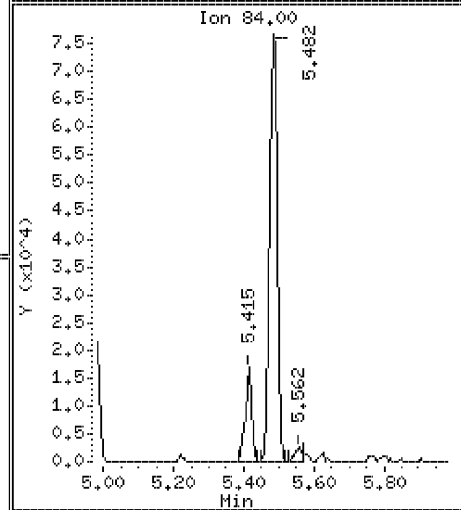
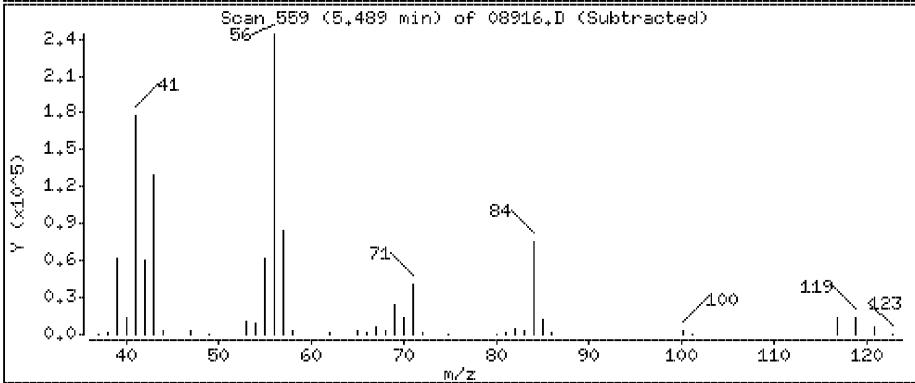
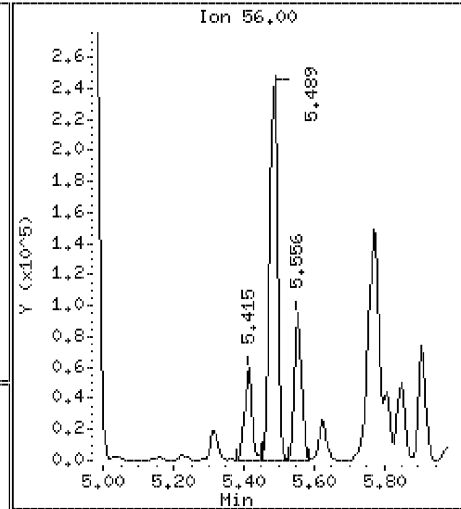
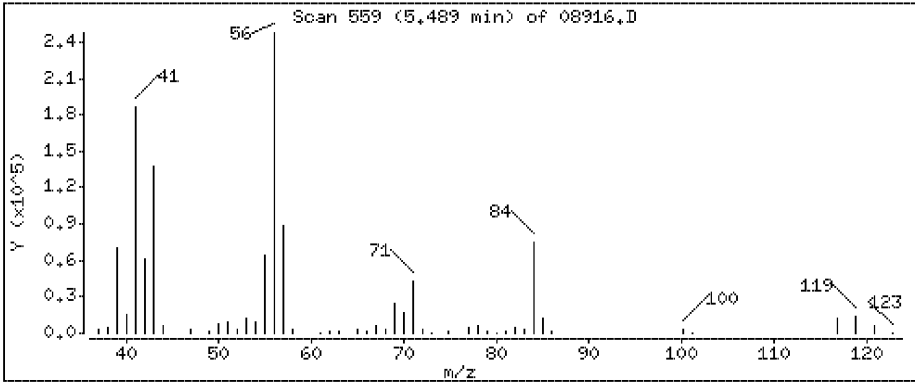
42 Carbon tetrachloride

Concentration: 0.593 ppbv



43 Cyclohexane

Concentration: 9.61 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

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Instrument: 10airI.i

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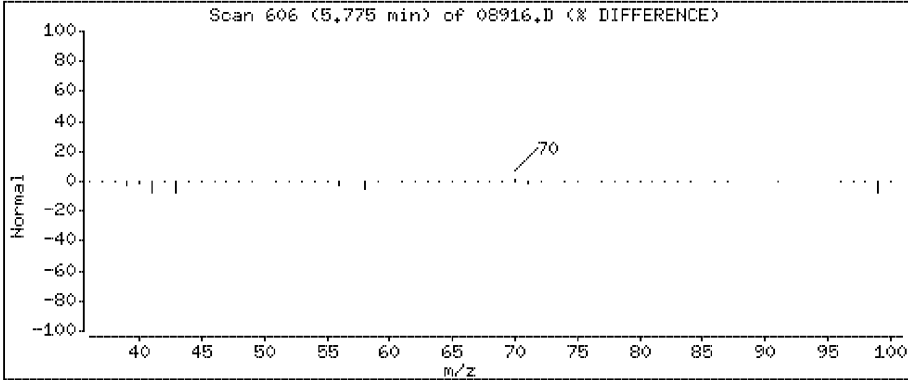
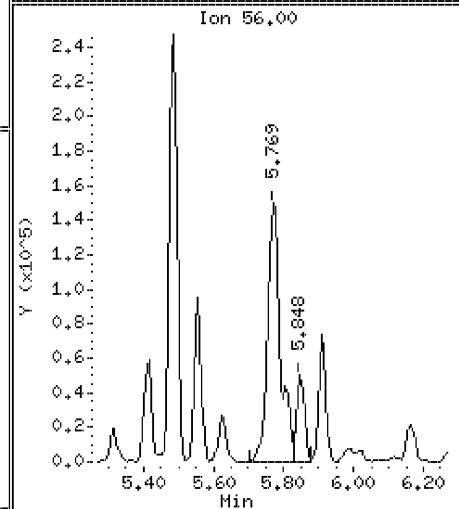
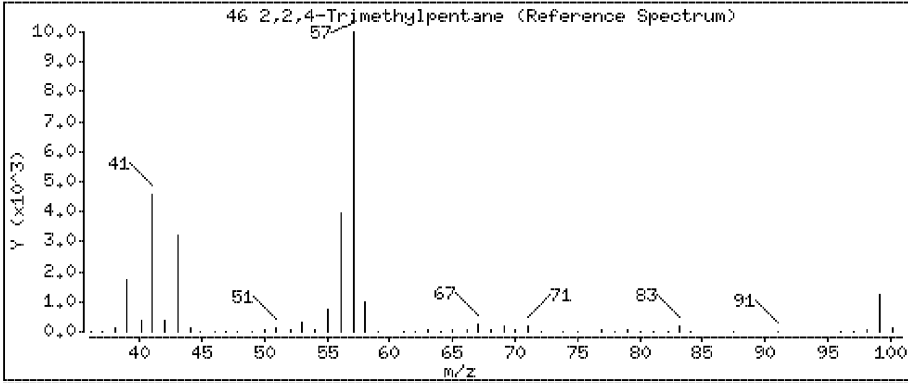
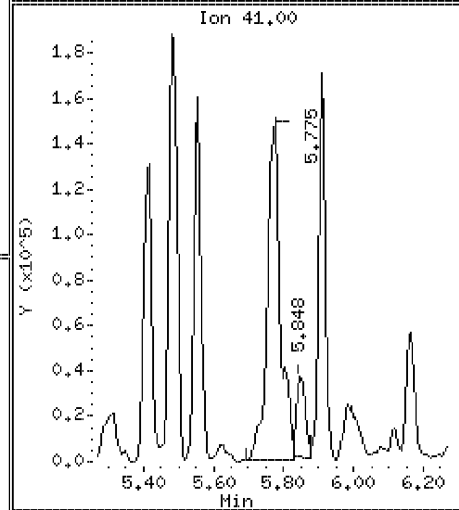
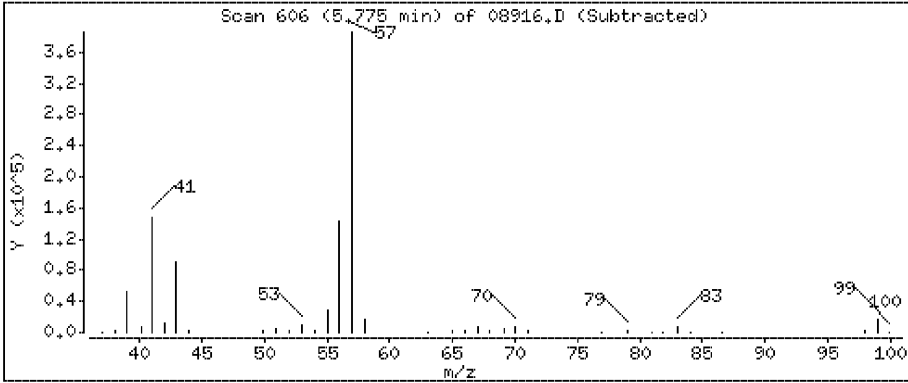
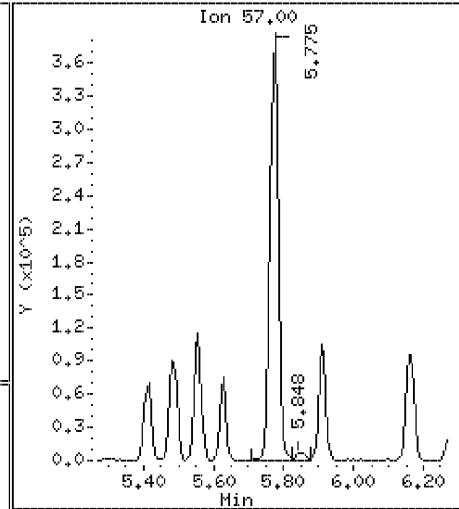
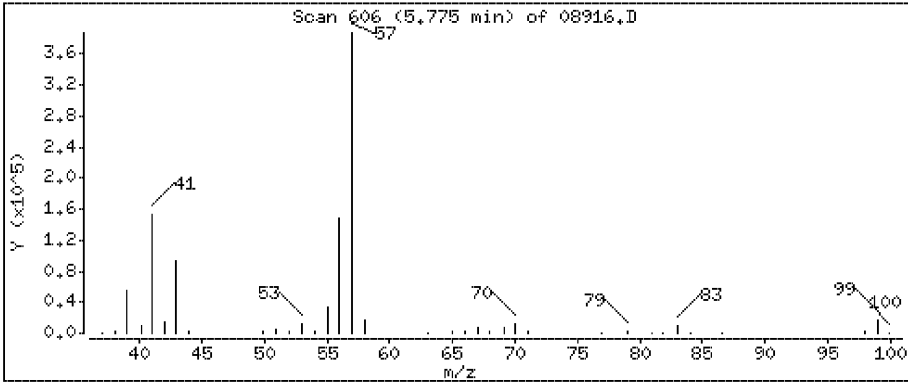
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

46 2,2,4-Trimethylpentane

Concentration: 5.36 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

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Instrument: 10airI.i

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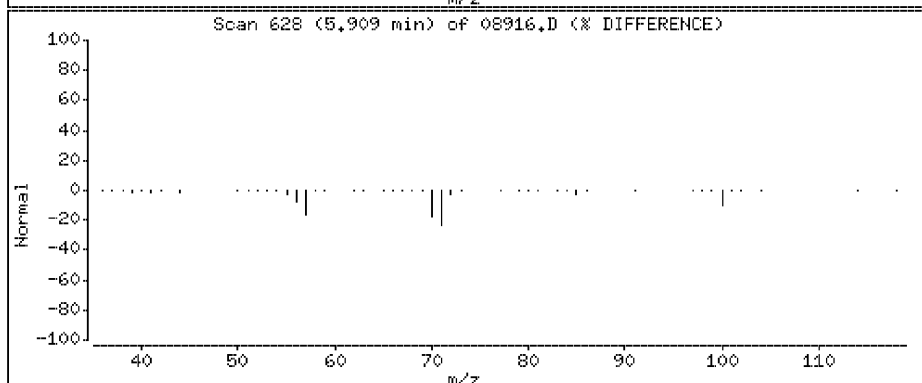
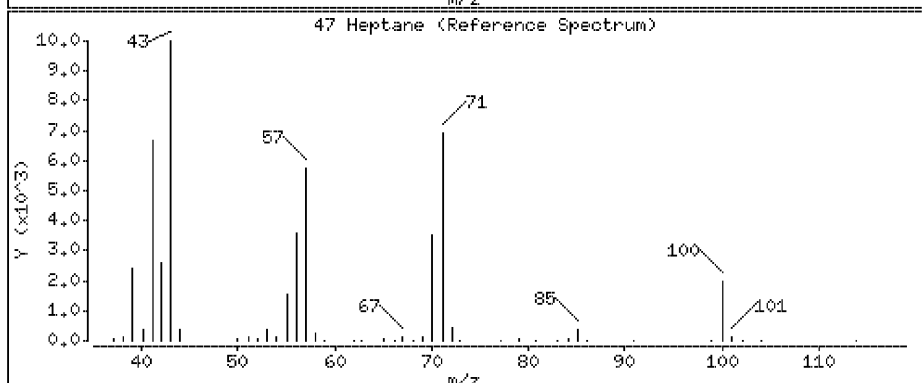
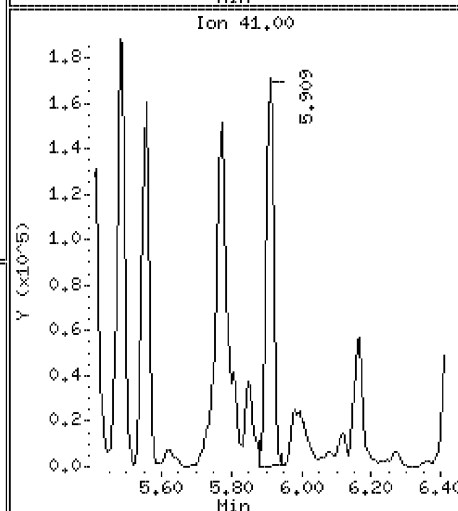
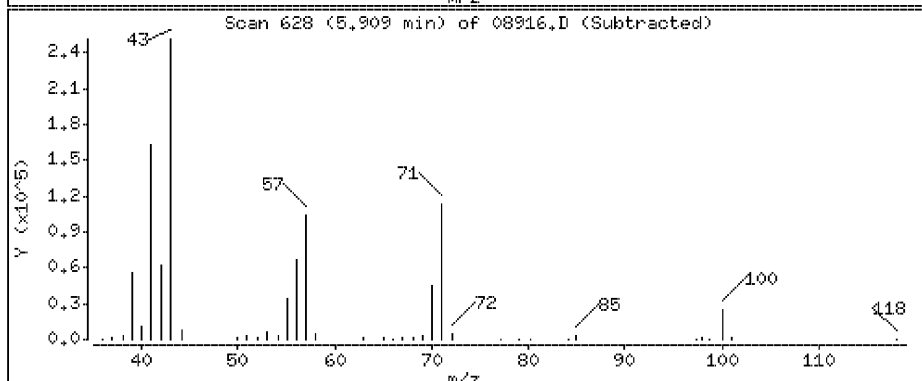
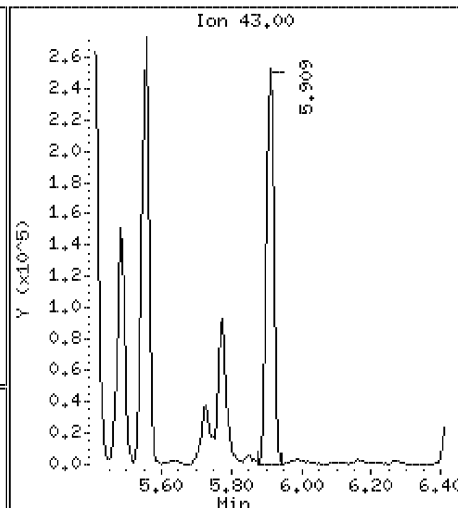
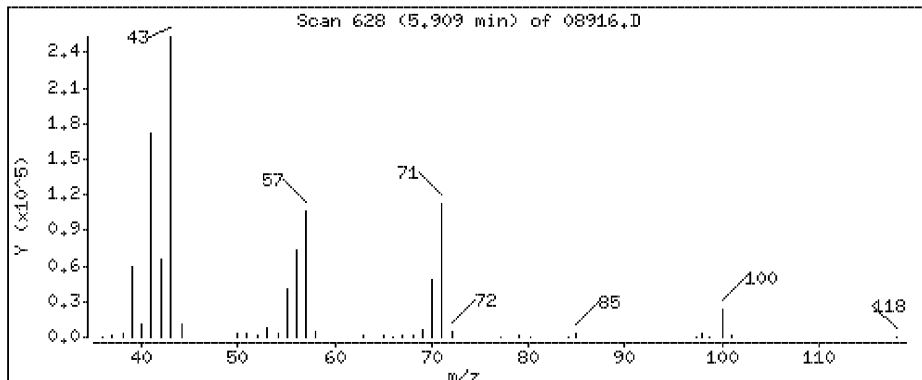
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Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

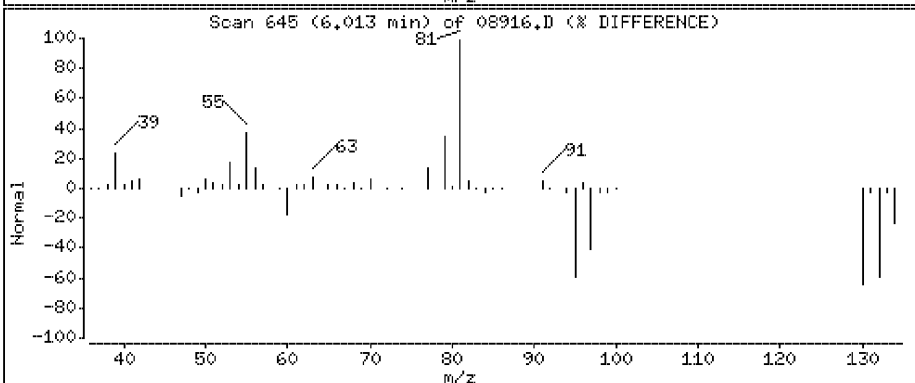
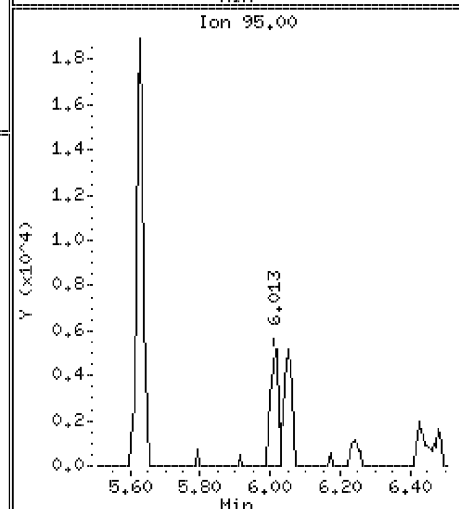
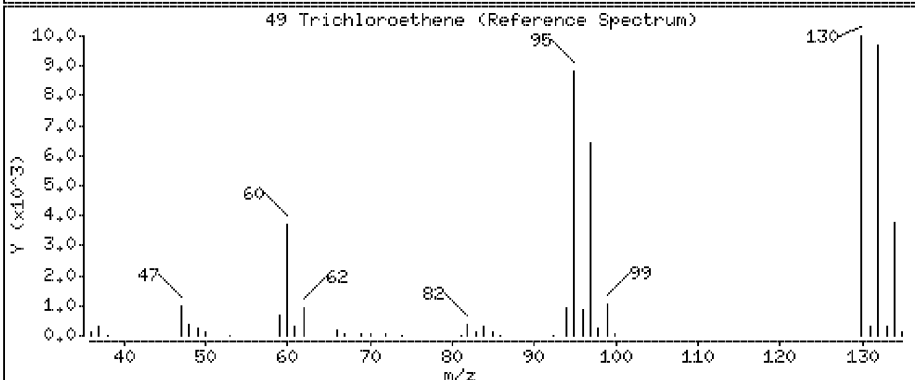
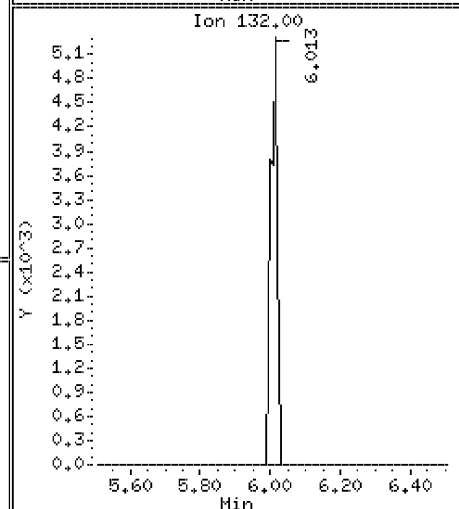
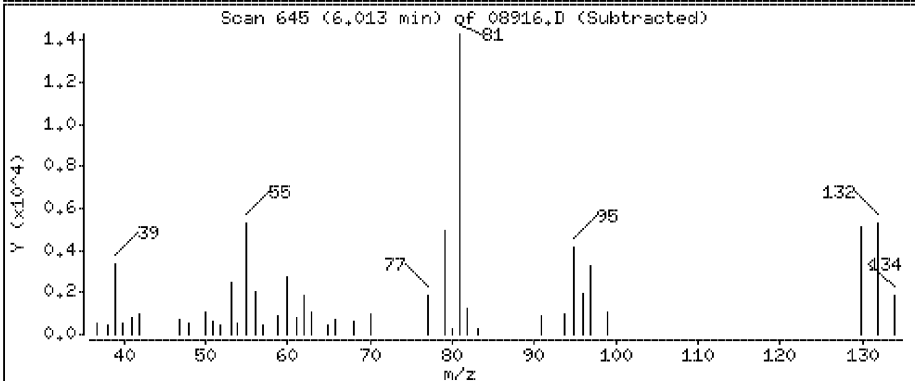
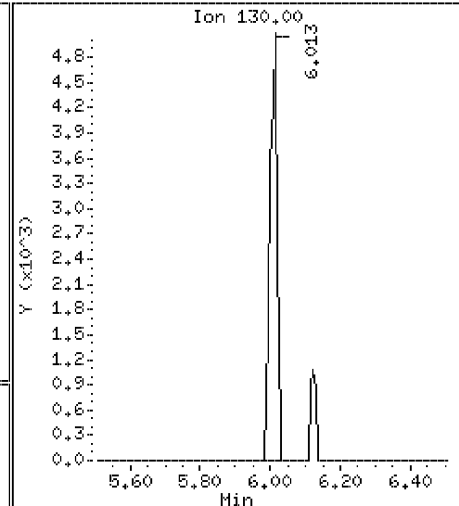
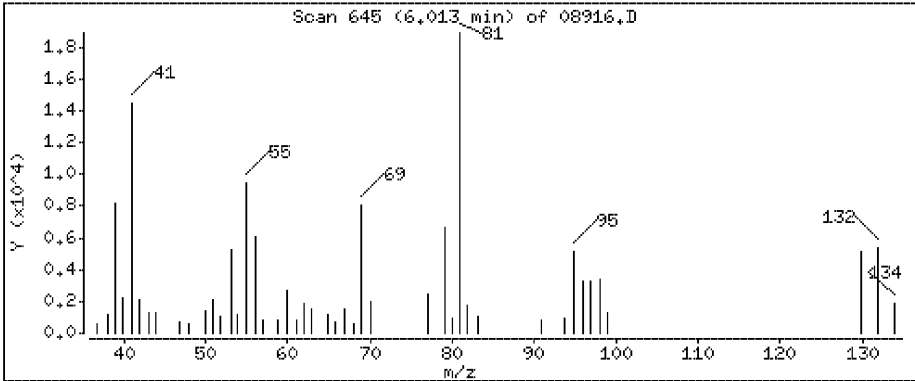
47 Heptane

Concentration: 6.44 ppbv



49 Trichloroethene

Concentration: 0.262 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

Sample Info:

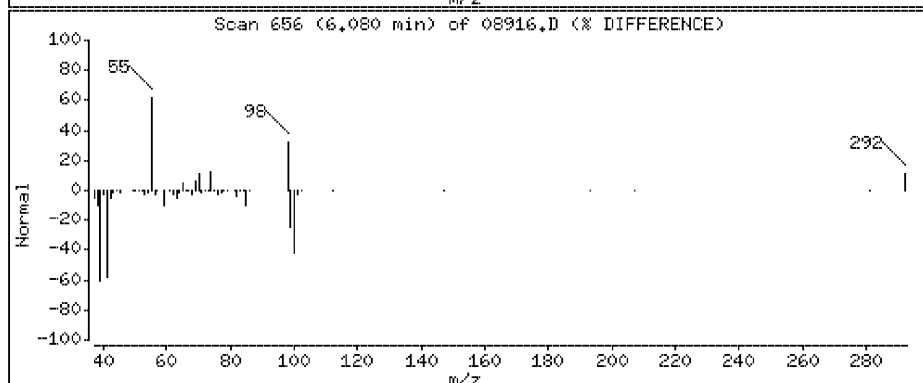
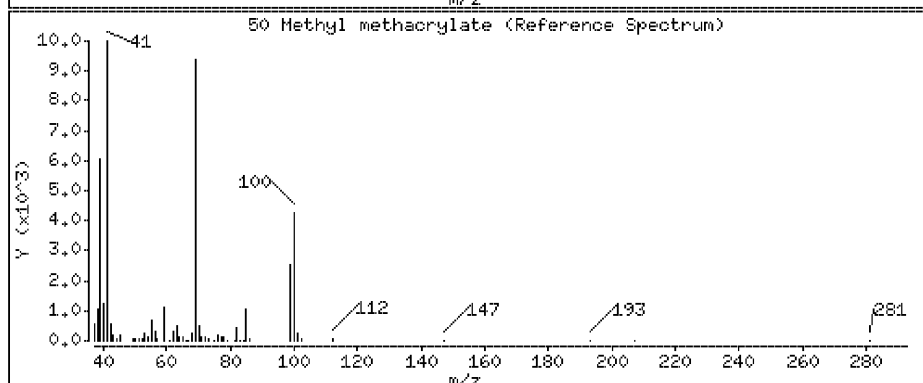
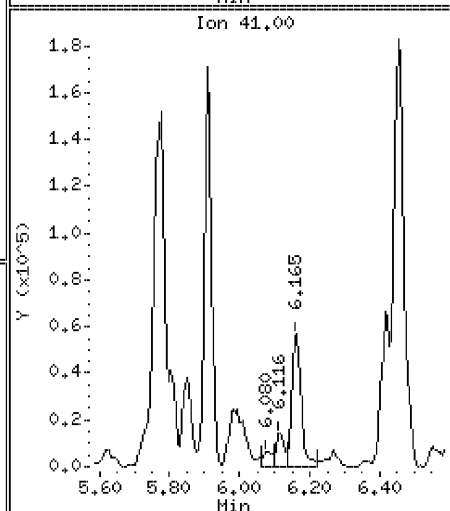
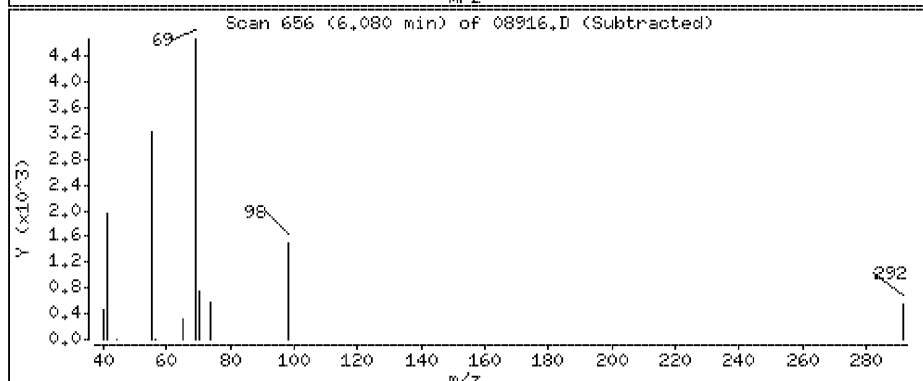
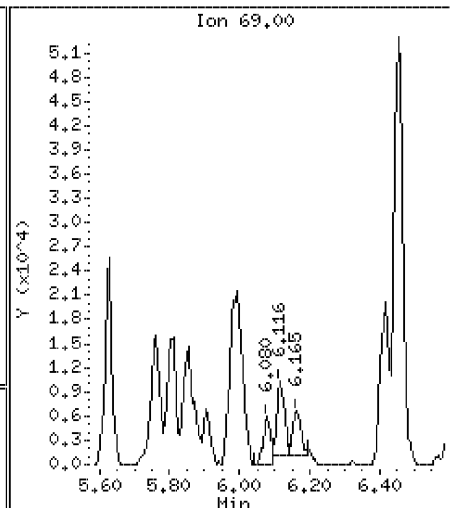
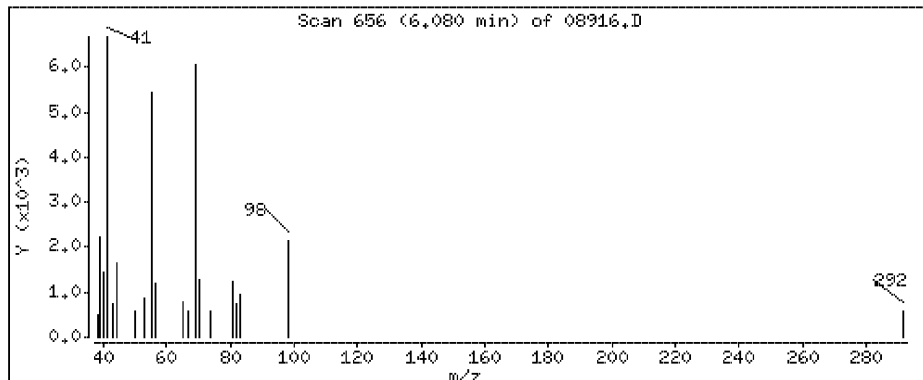
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

50 Methyl methacrylate

Concentration: 0.329 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

Sample Info:

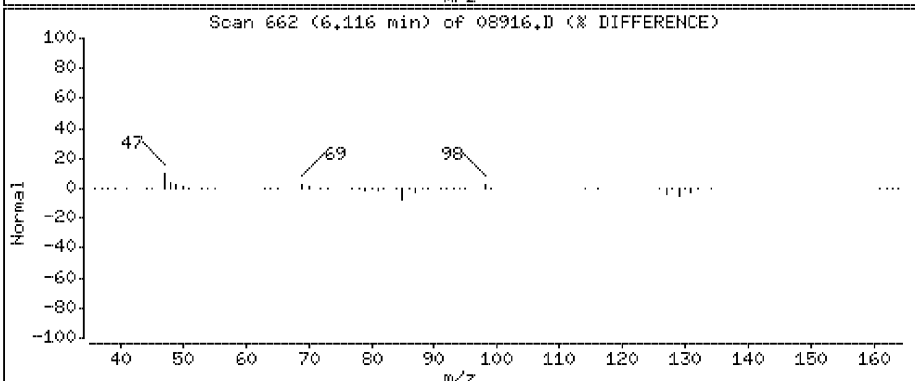
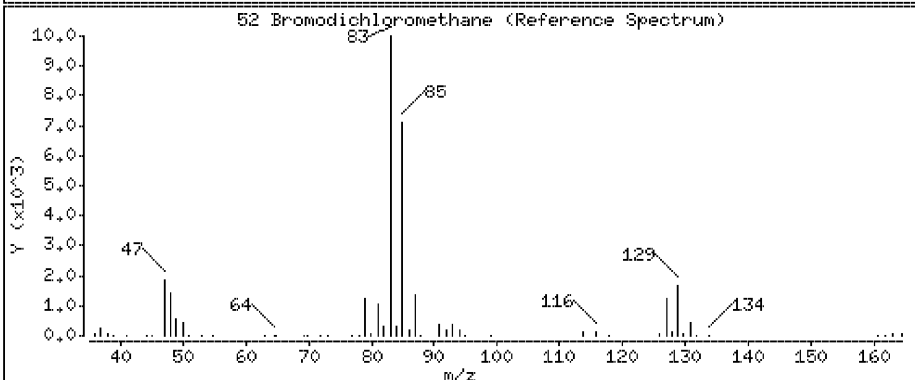
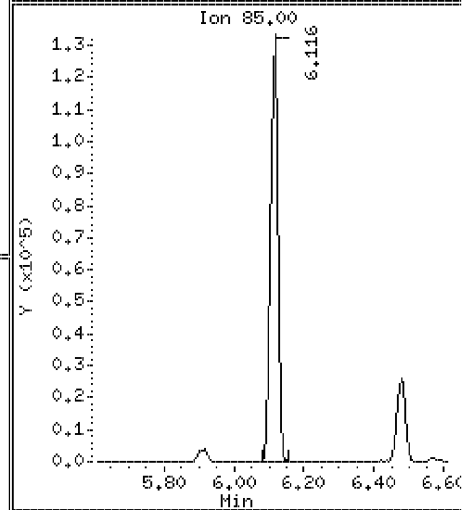
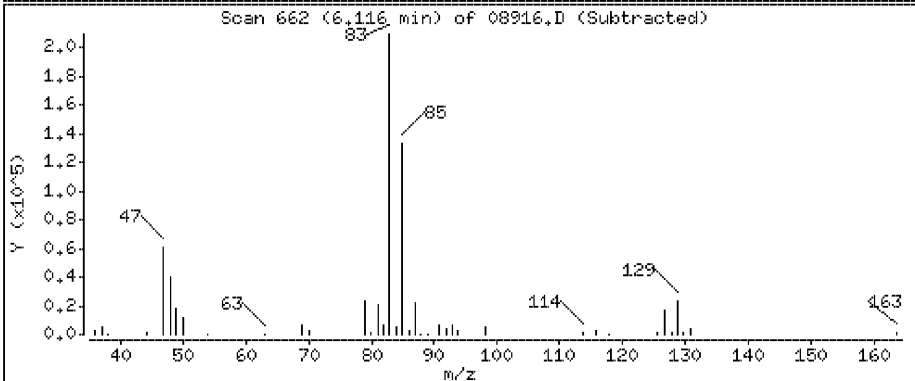
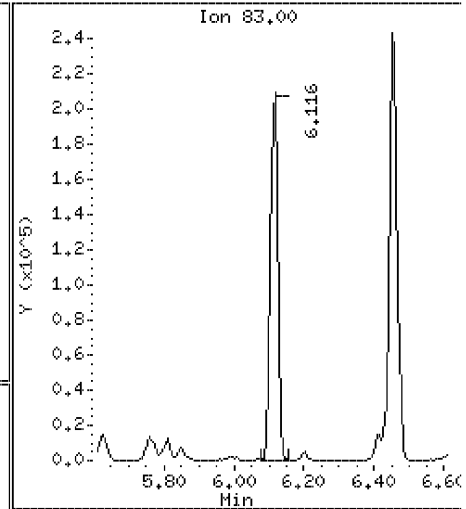
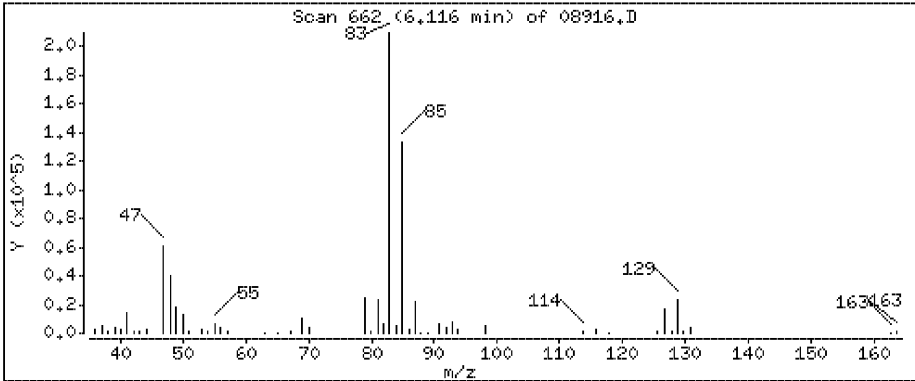
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

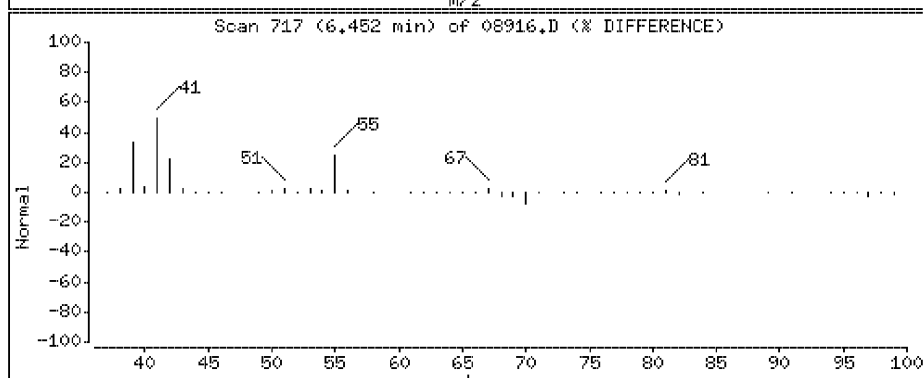
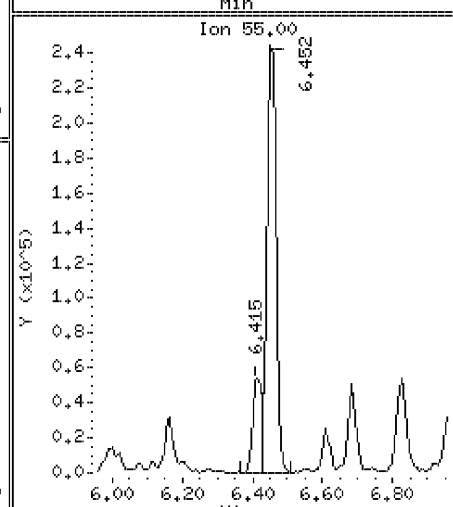
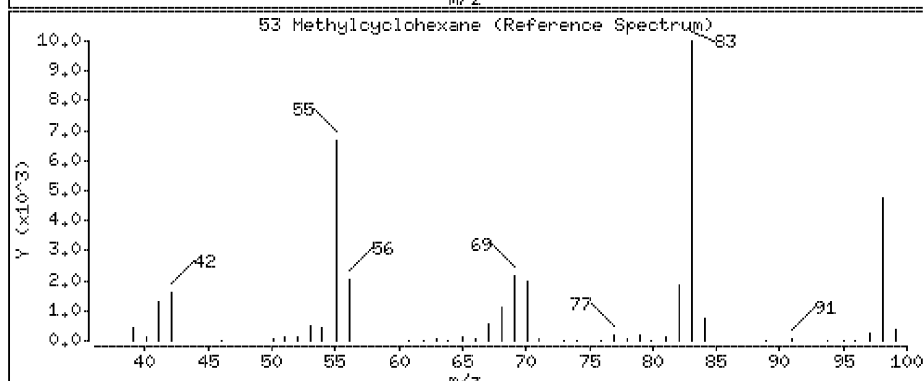
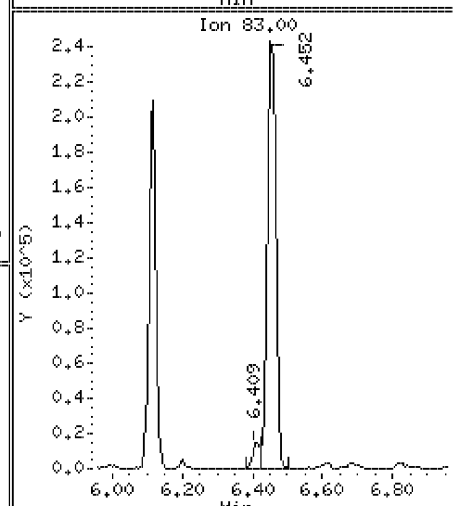
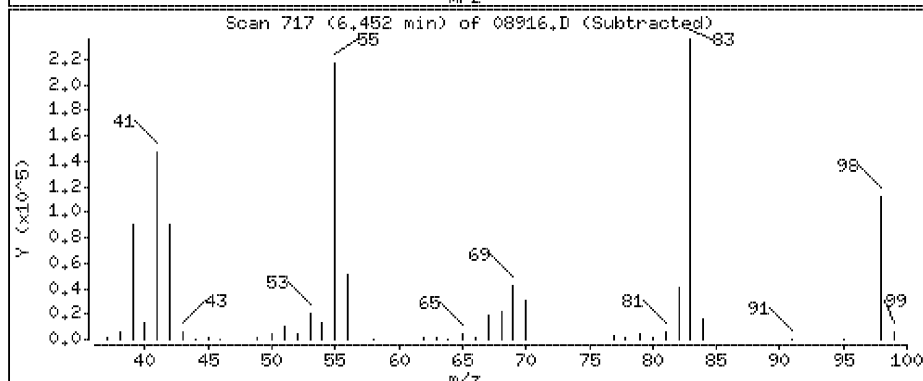
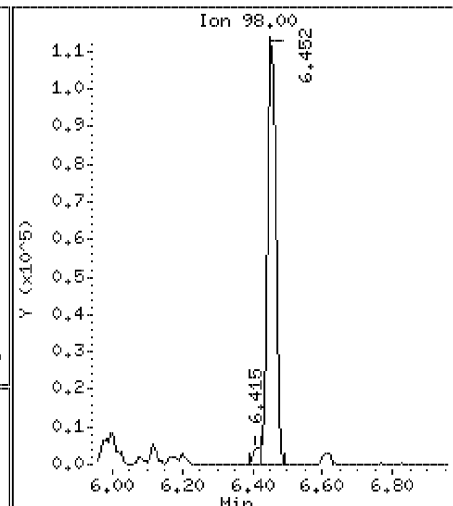
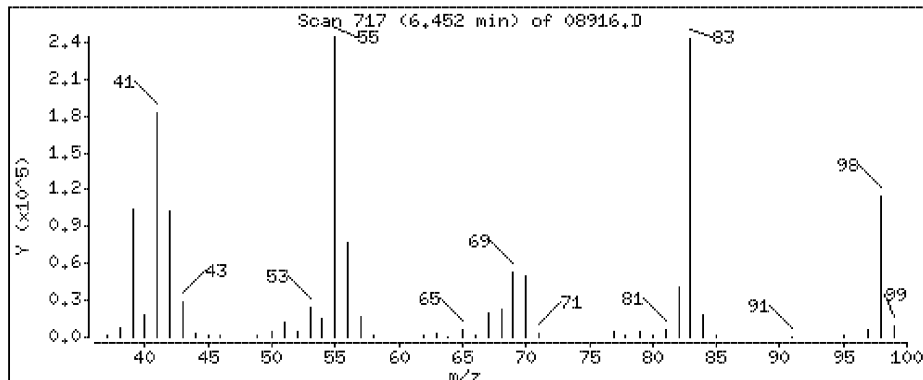
52 Bromodichloromethane

Concentration: 6.19 ppbv



53 Methylcyclohexane

Concentration: 10.9 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

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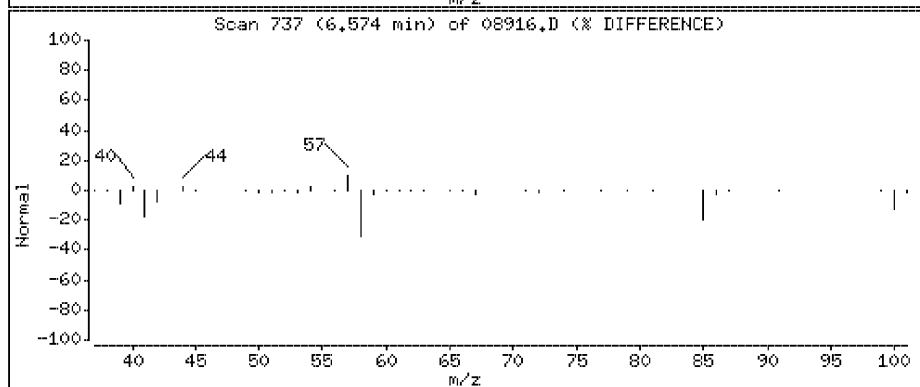
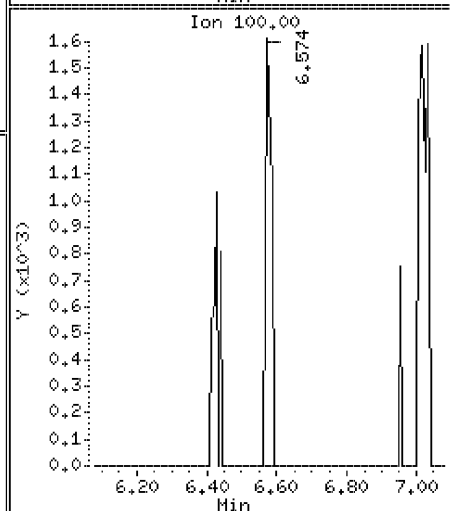
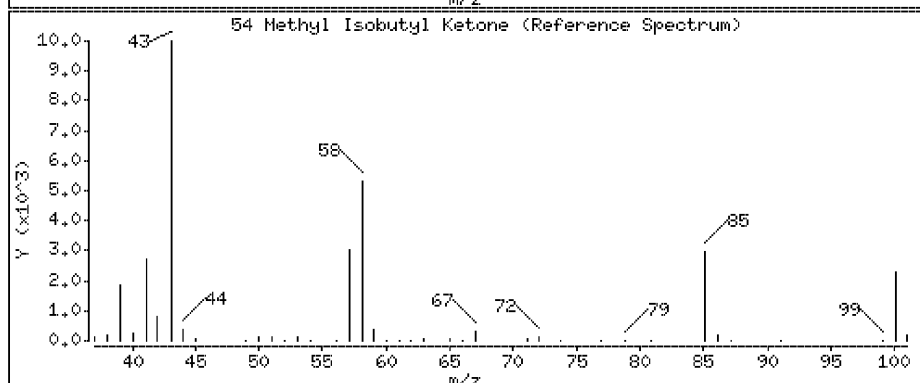
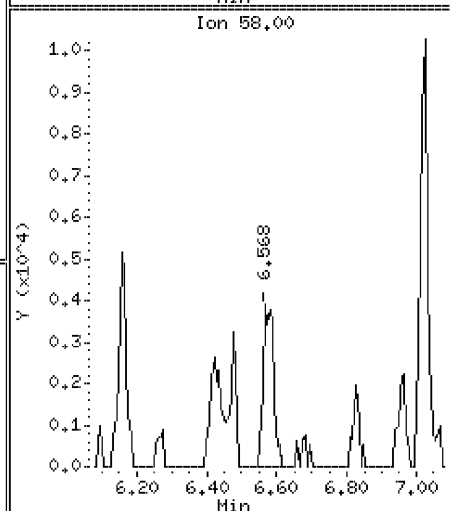
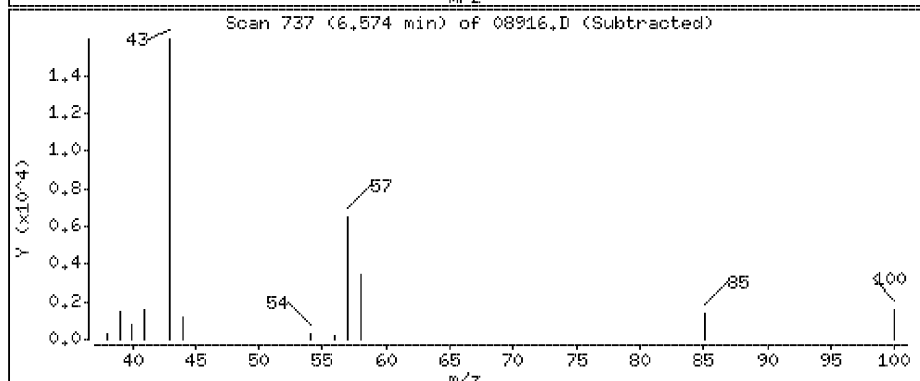
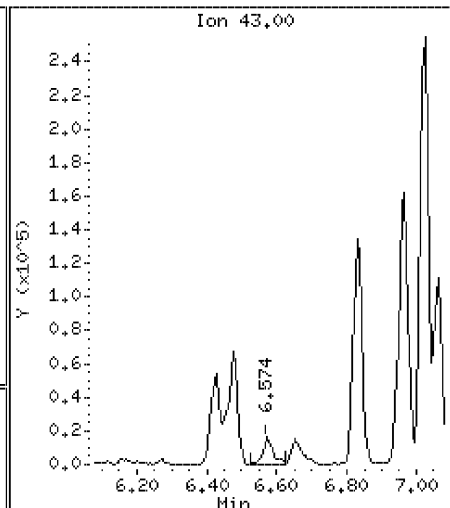
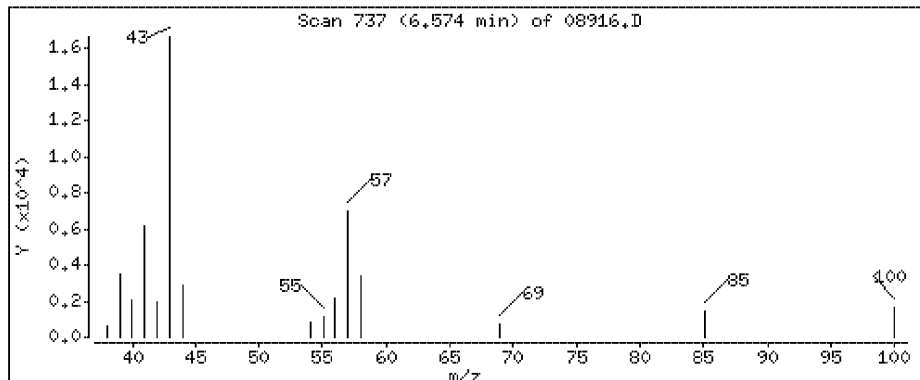
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

54 Methyl Isobutyl Ketone

Concentration: 0,469 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

Sample Info:

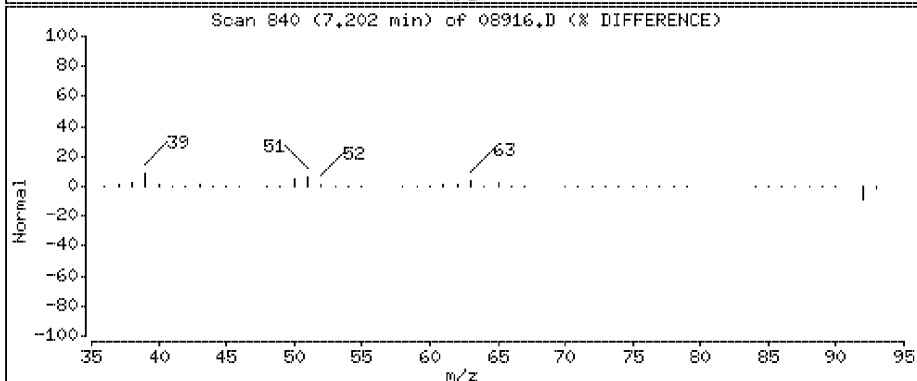
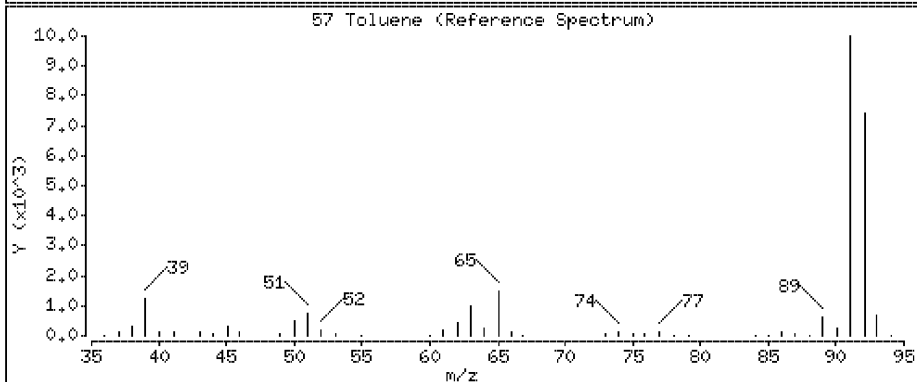
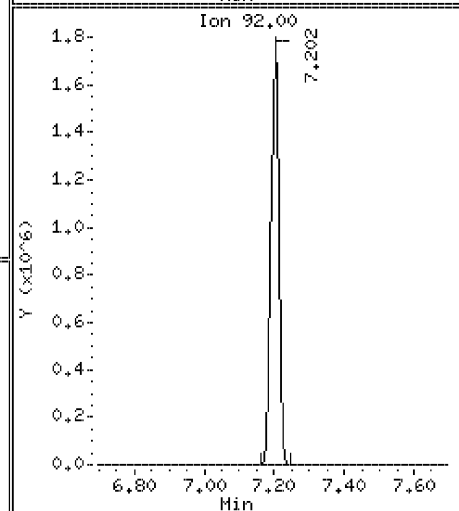
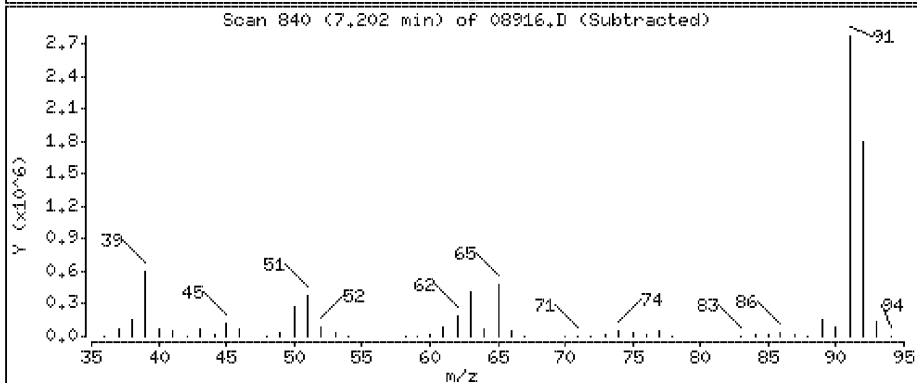
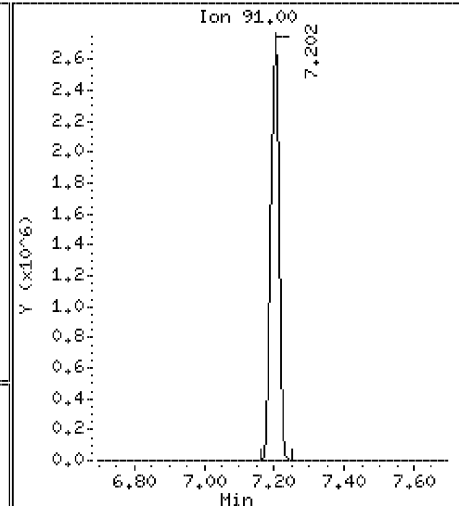
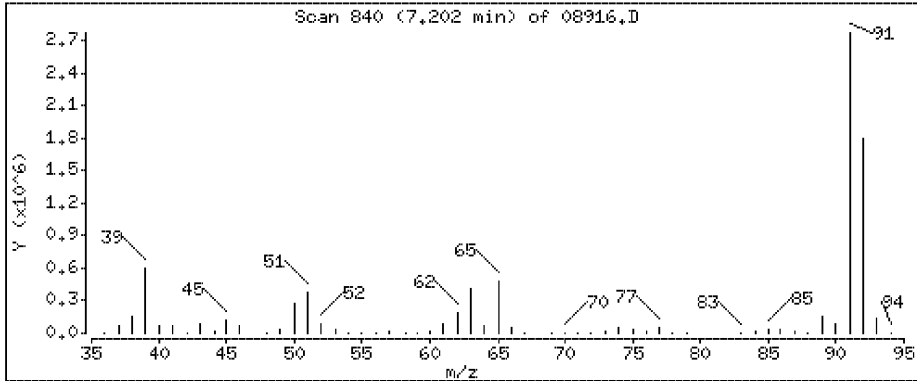
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

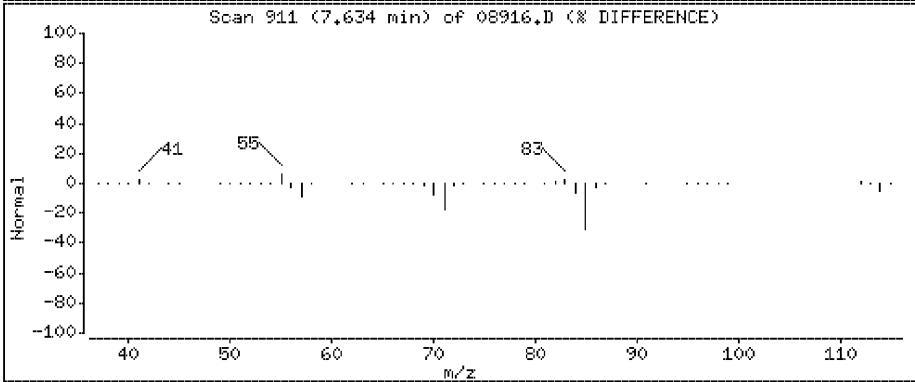
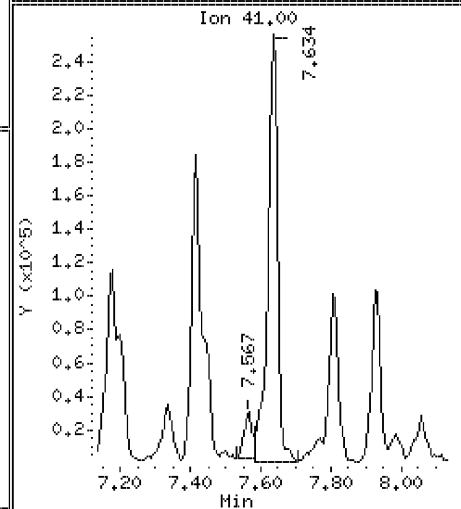
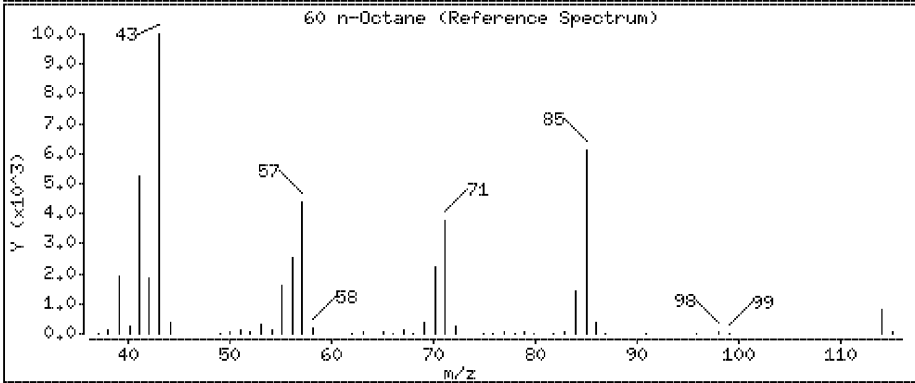
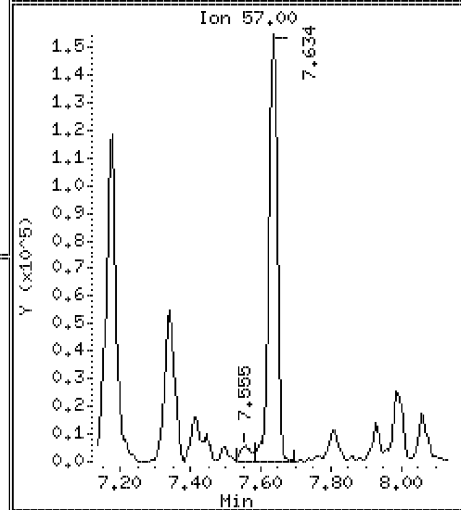
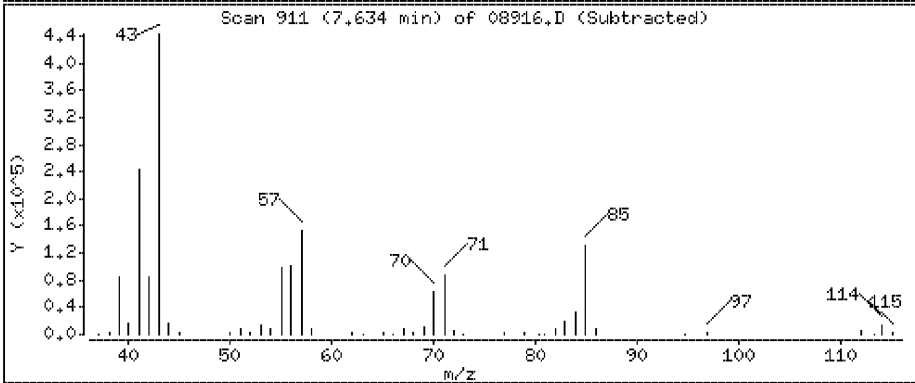
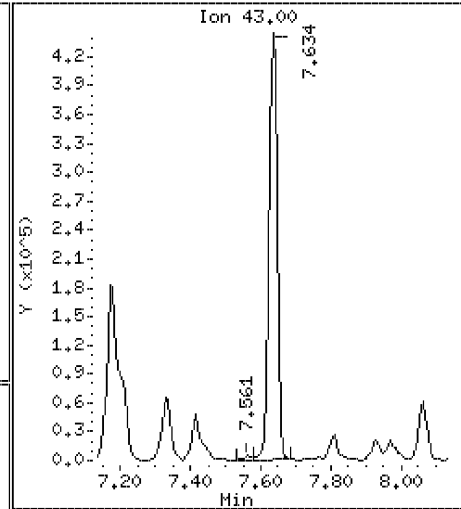
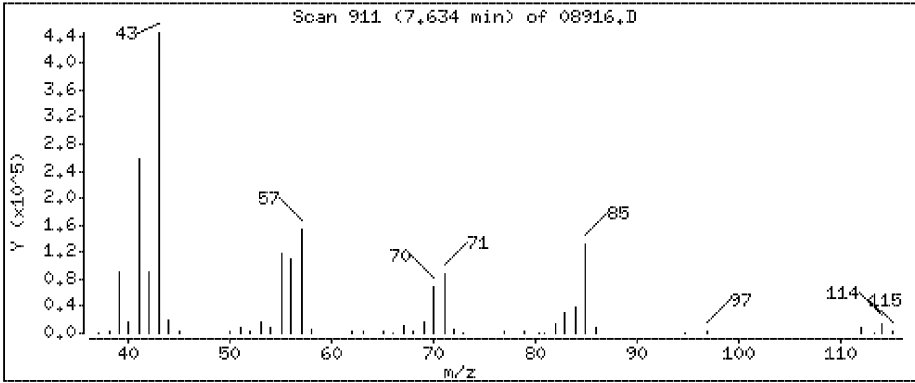
57 Toluene

Concentration: 61.6 ppbv



60 n-Octane

Concentration: 9.73 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

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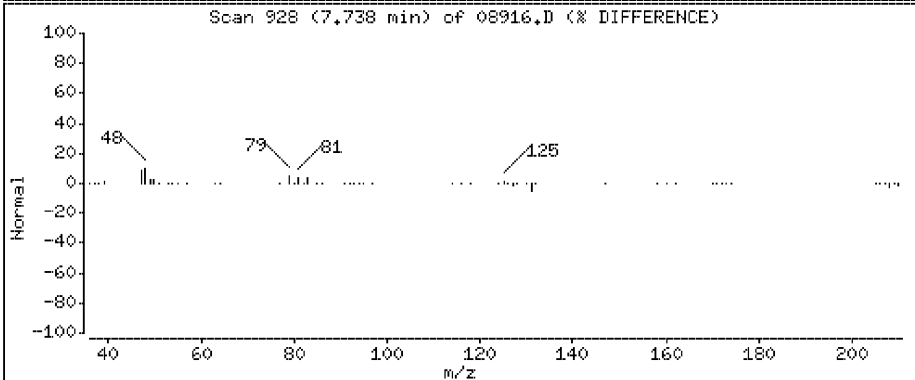
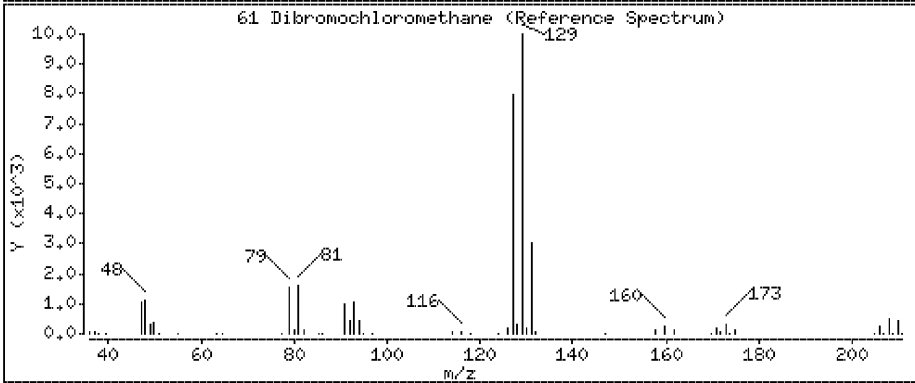
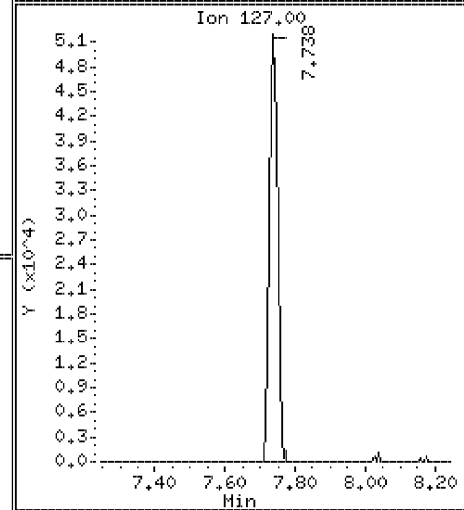
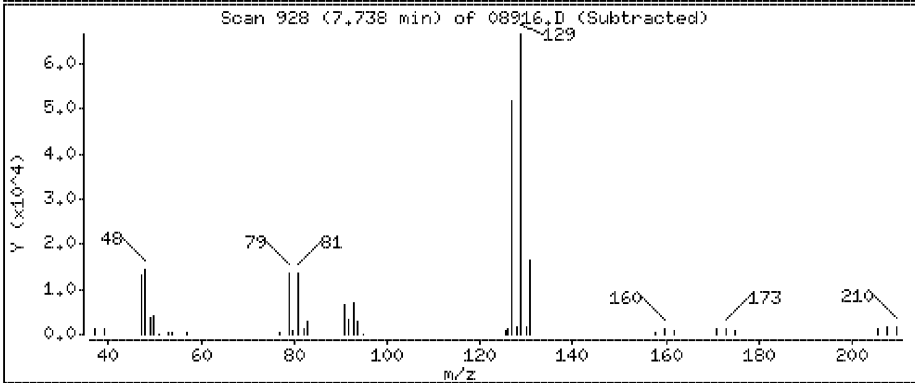
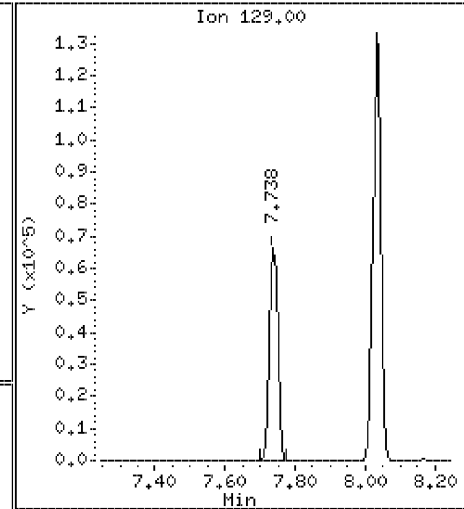
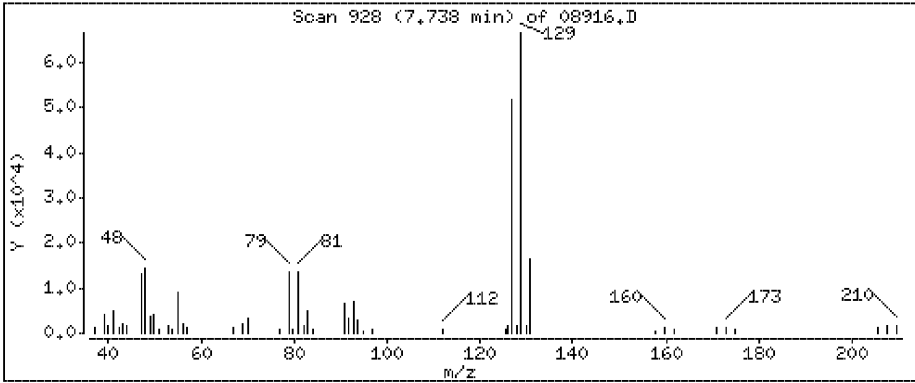
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

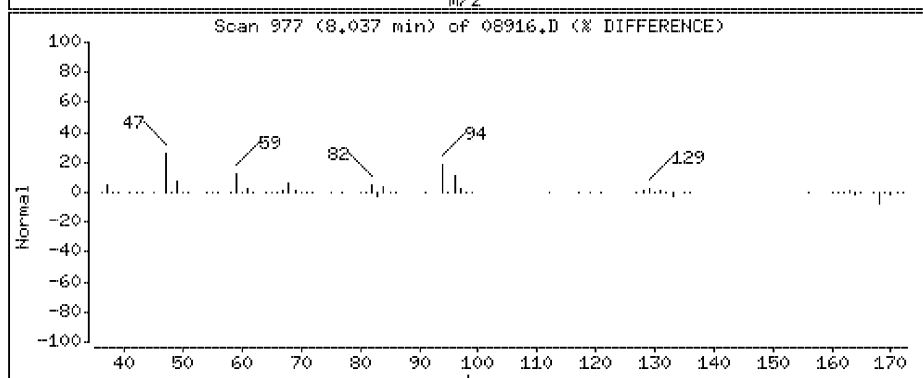
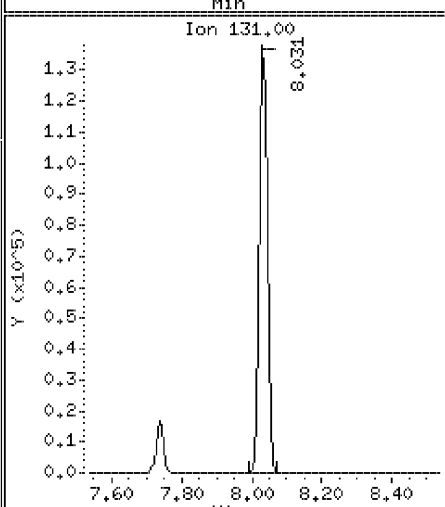
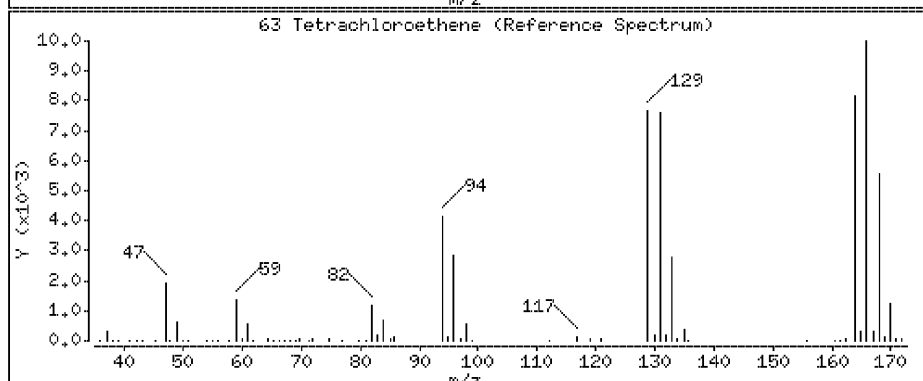
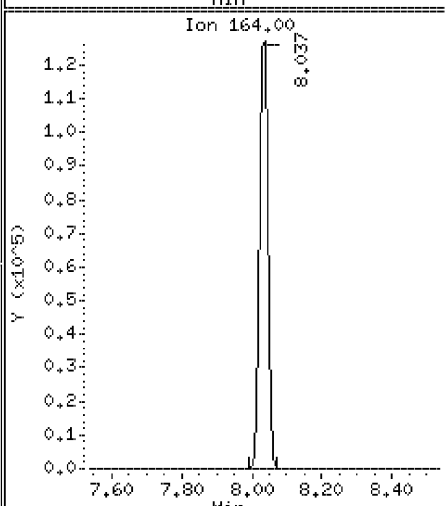
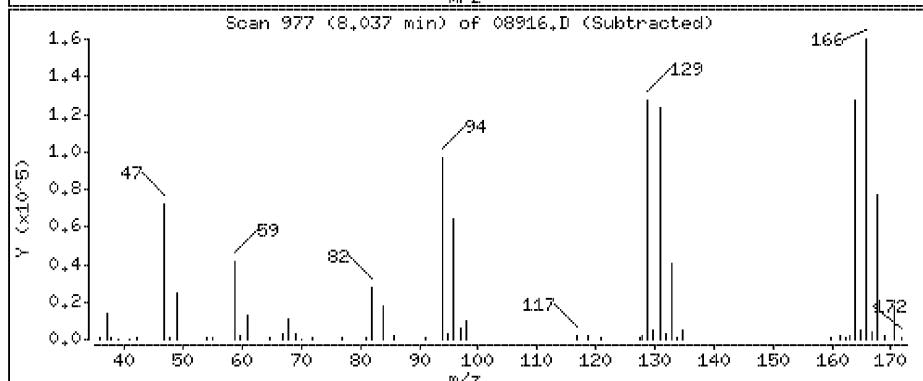
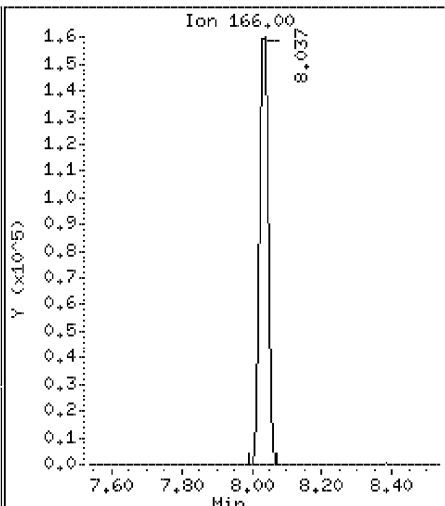
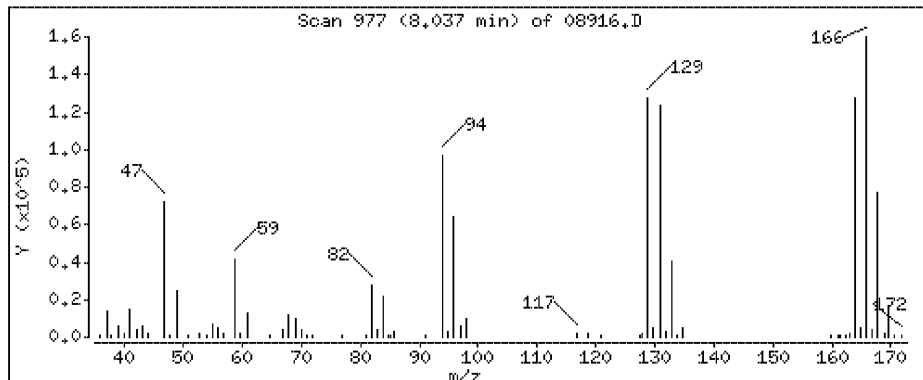
61 Dibromochloromethane

Concentration: 2.96 ppbv



63 Tetrachloroethene

Concentration: 8.45 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

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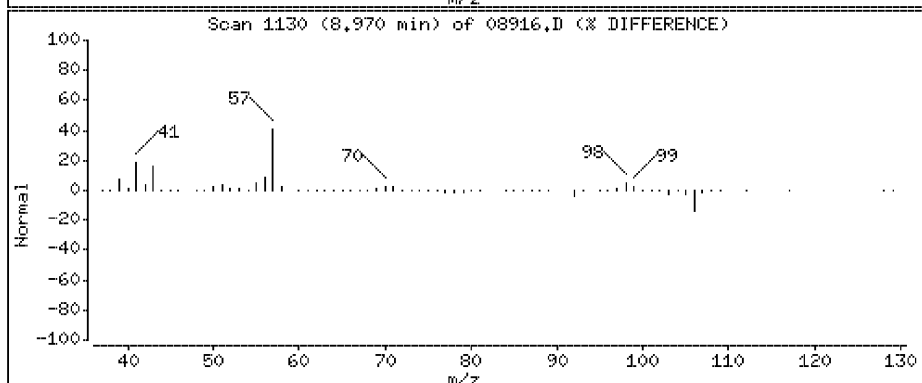
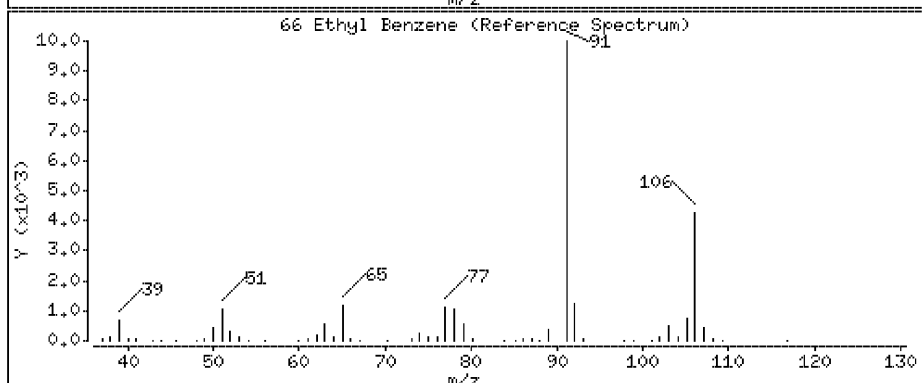
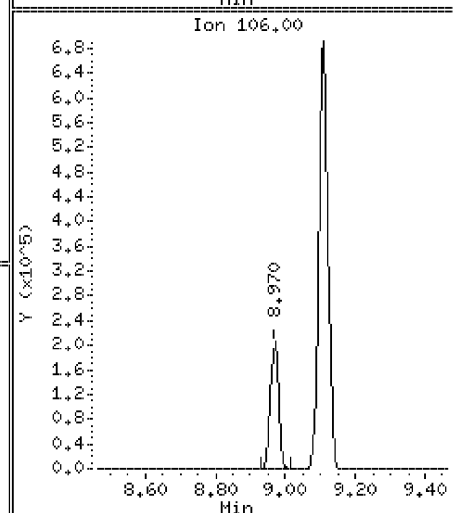
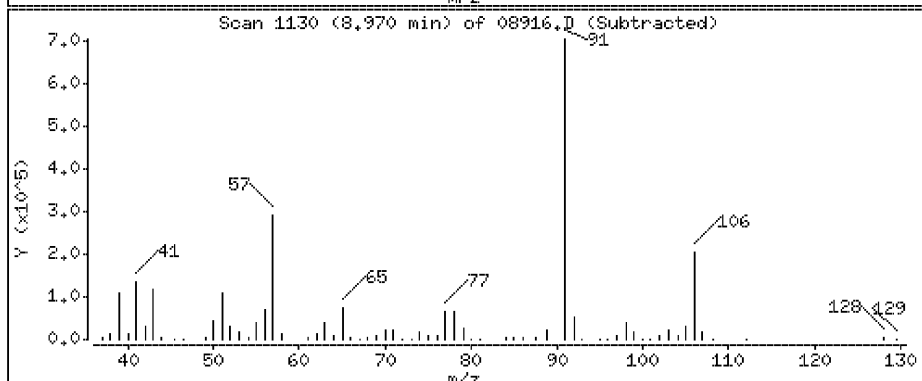
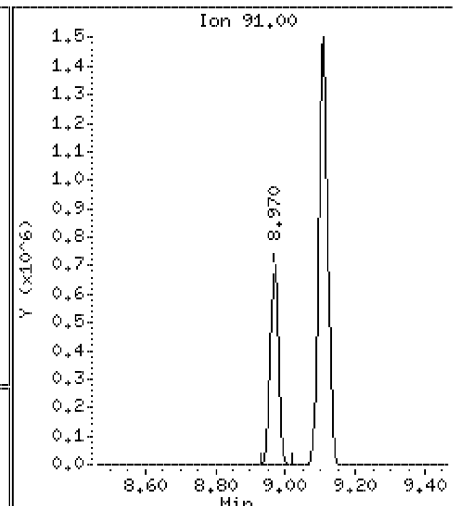
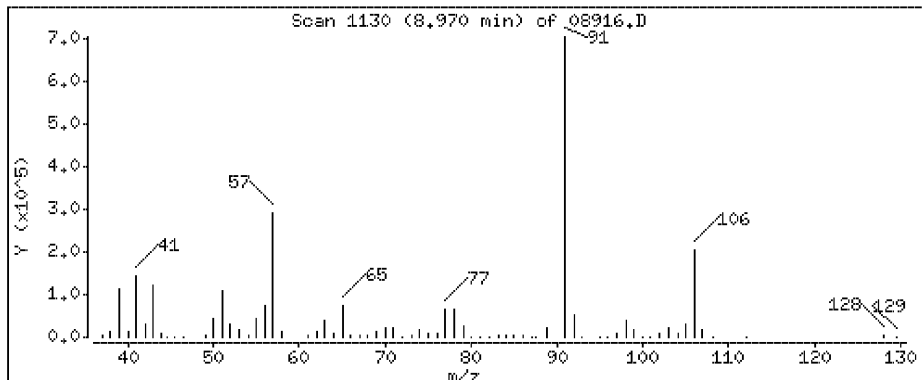
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

66 Ethyl Benzene

Concentration: 12.2 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

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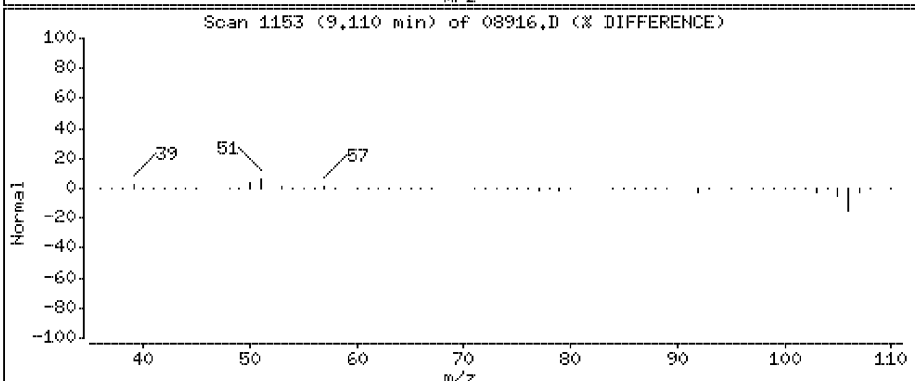
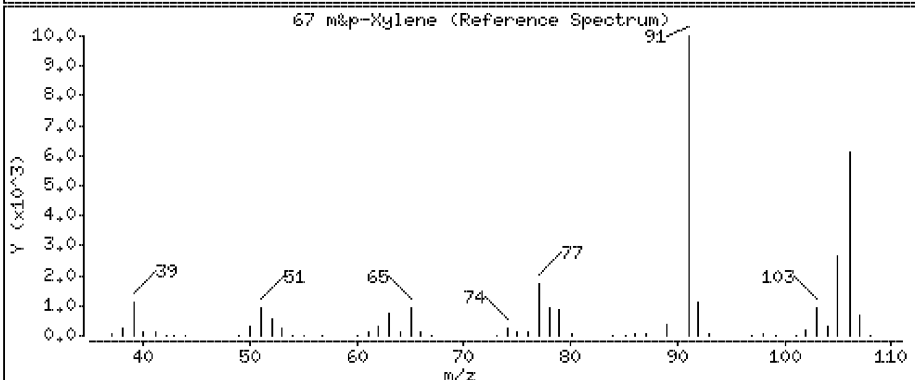
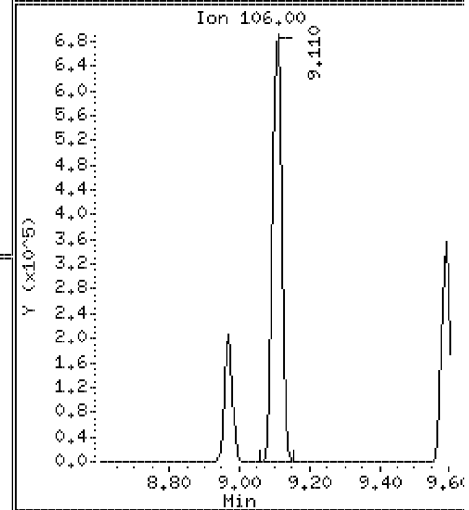
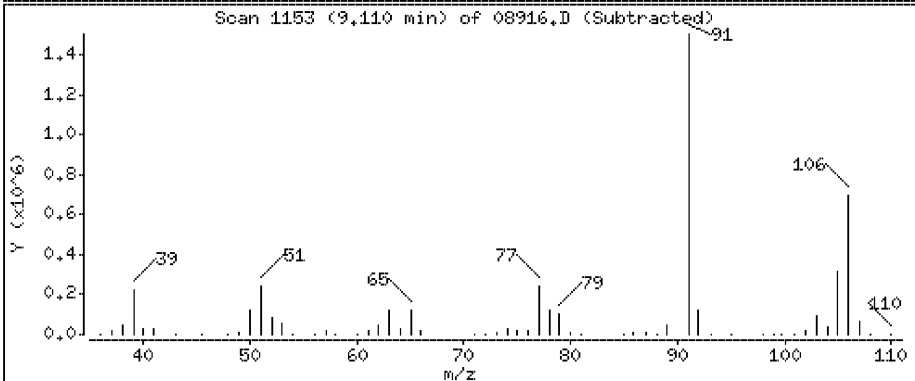
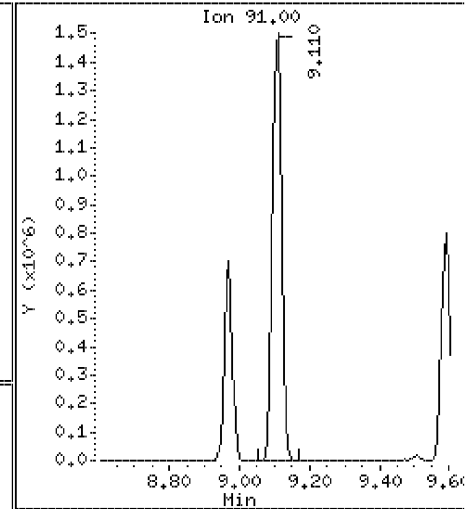
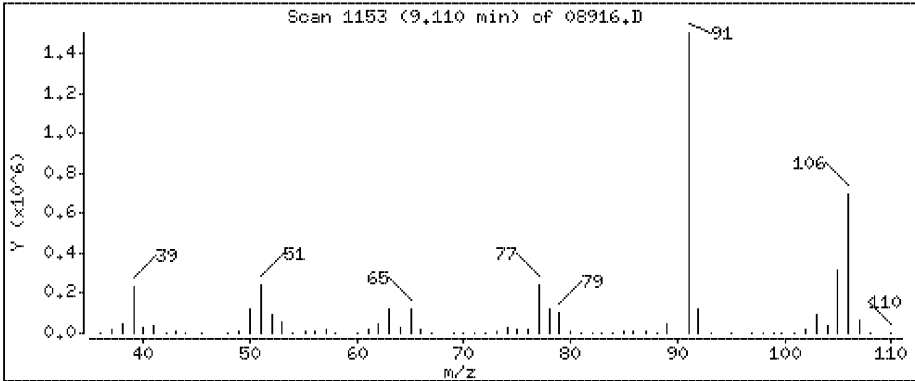
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

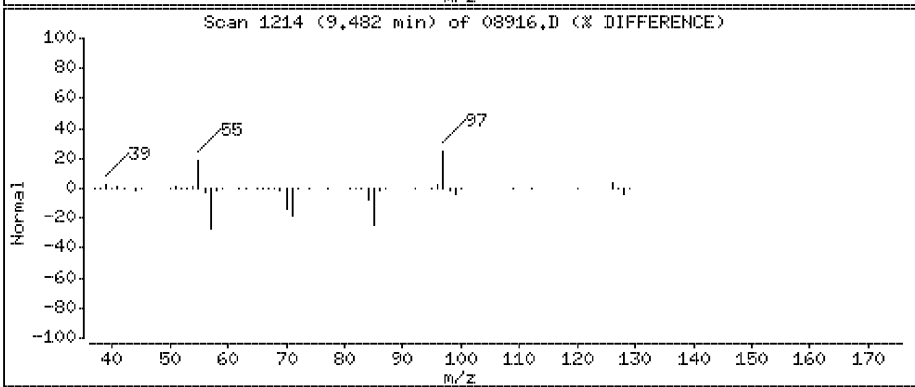
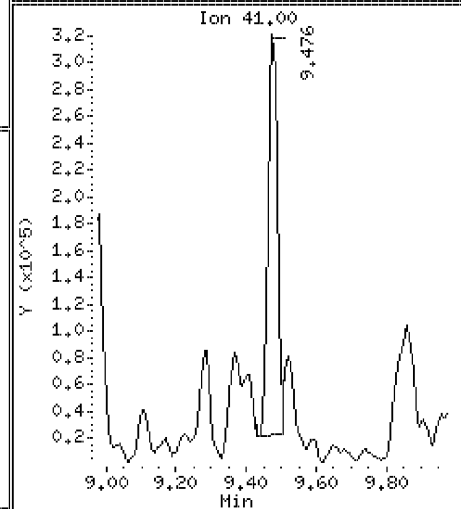
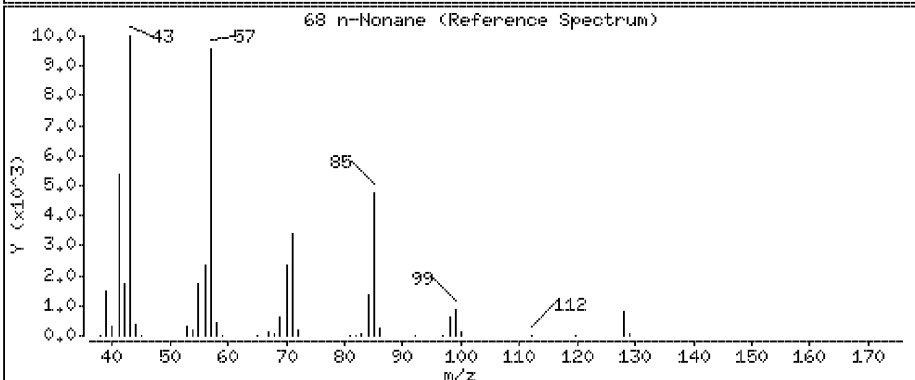
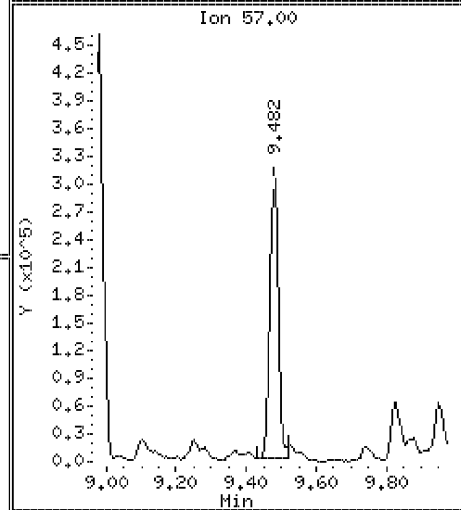
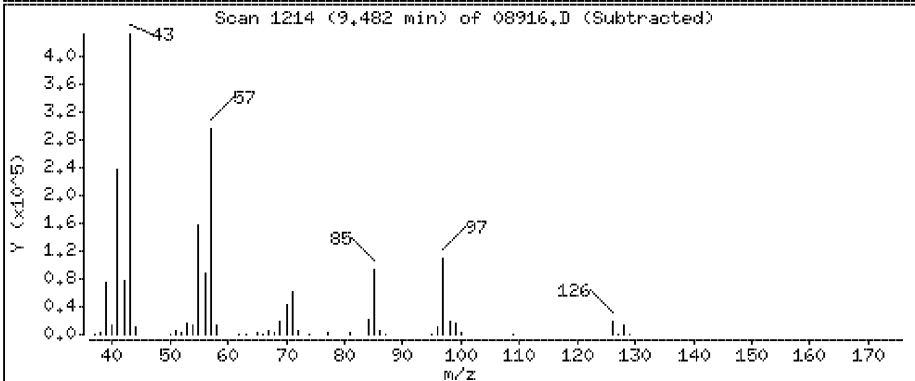
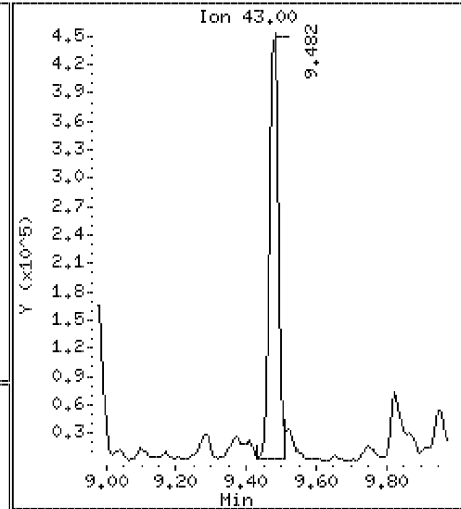
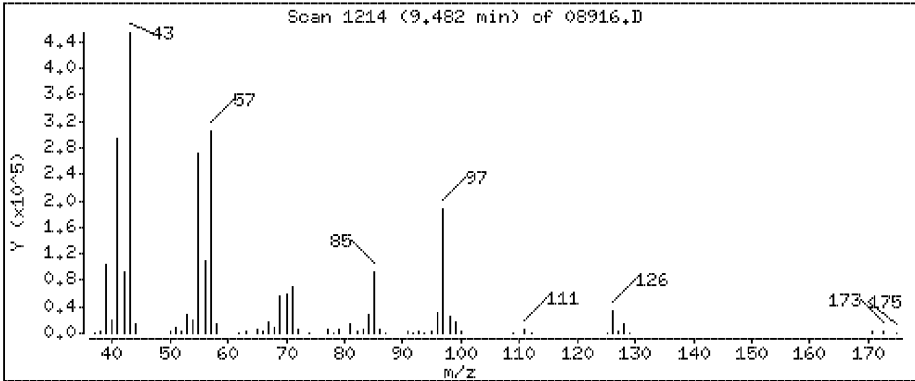
67 m&p-Xylene

Concentration: 39.1 ppbv



68 n-Nonane

Concentration: 10.6 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

Sample Info:

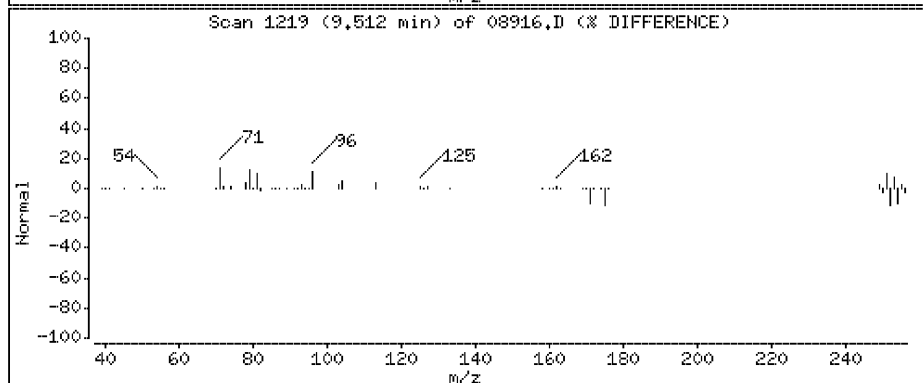
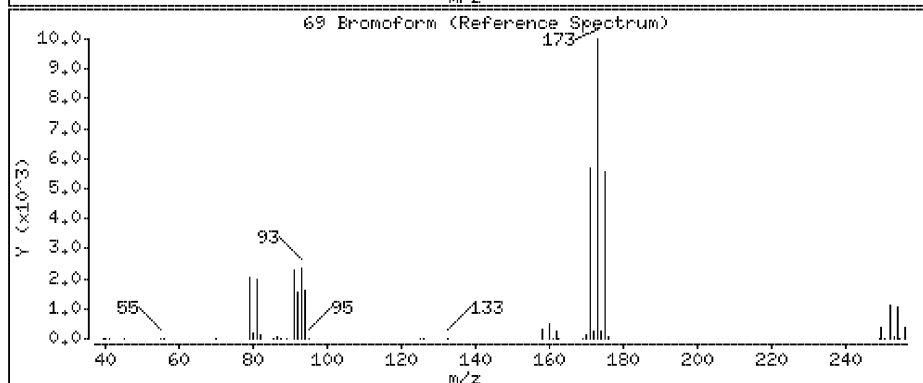
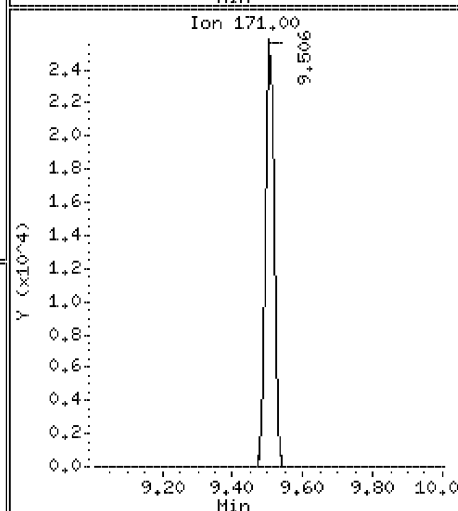
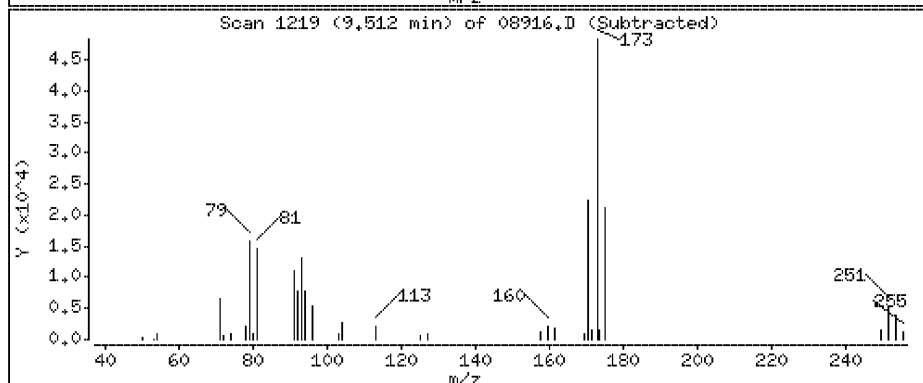
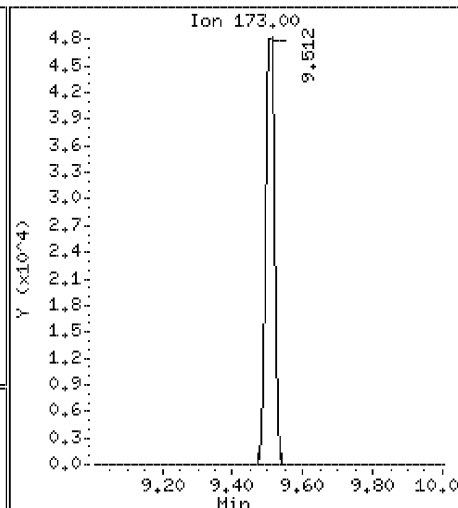
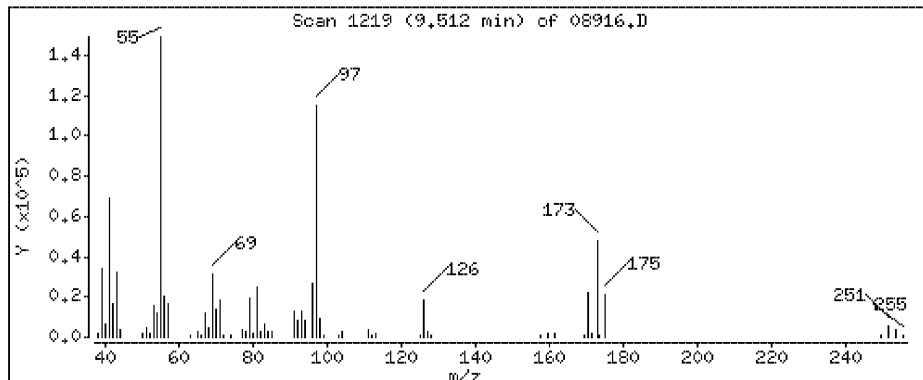
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

69 Bromoform

Concentration: 3.09 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

Sample Info:

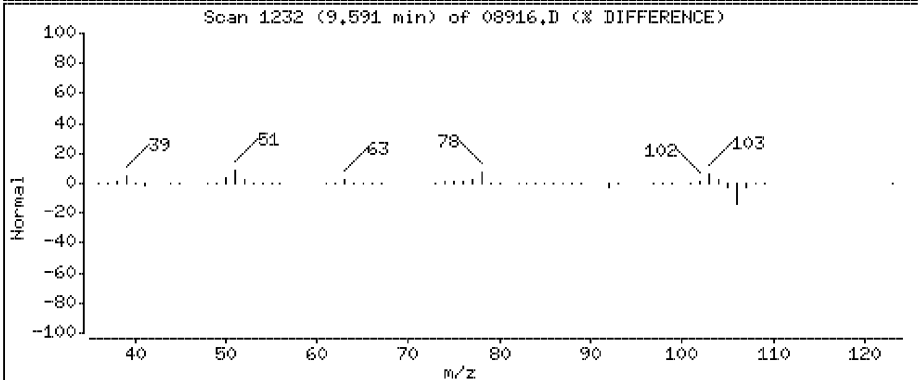
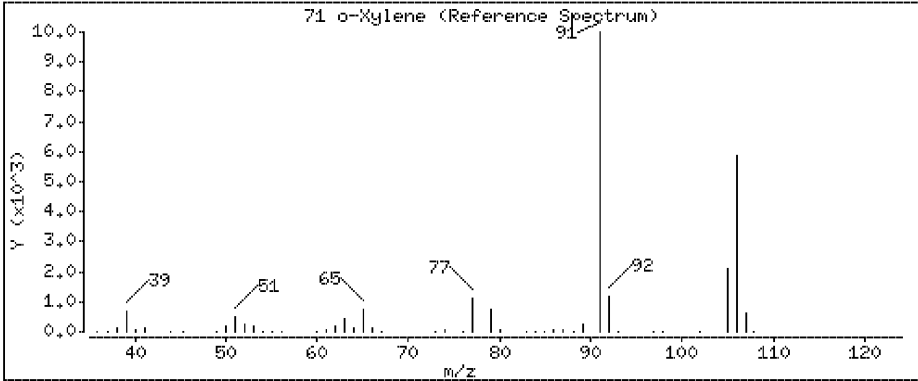
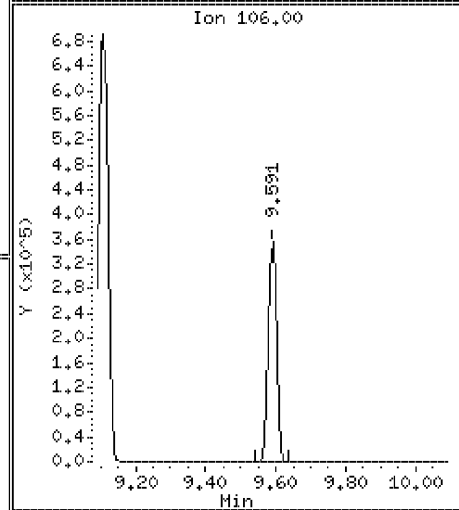
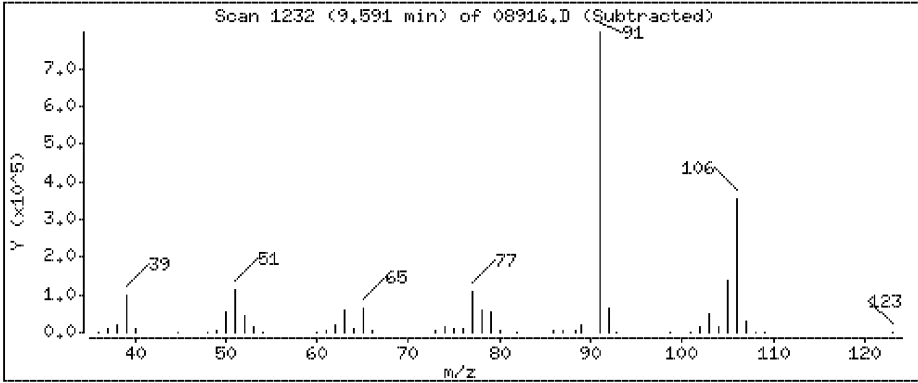
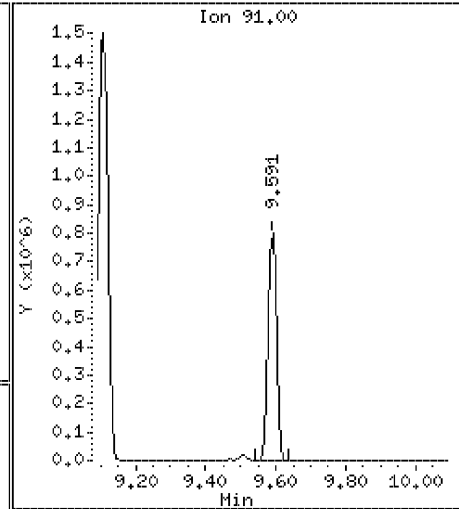
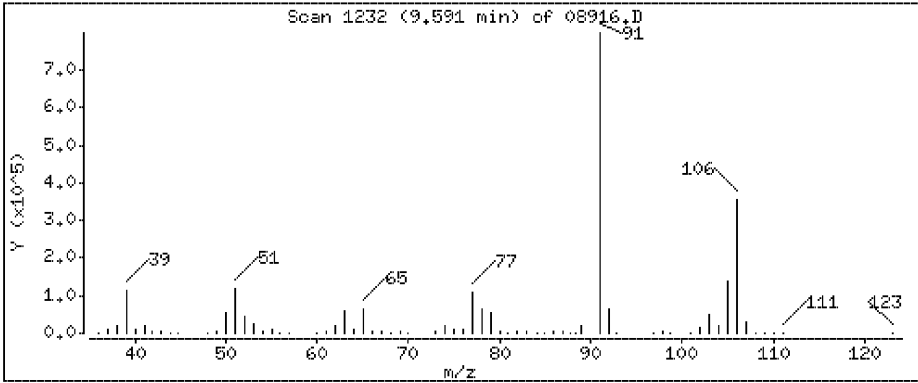
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

71 o-Xylene

Concentration: 17.9 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

Sample Info:

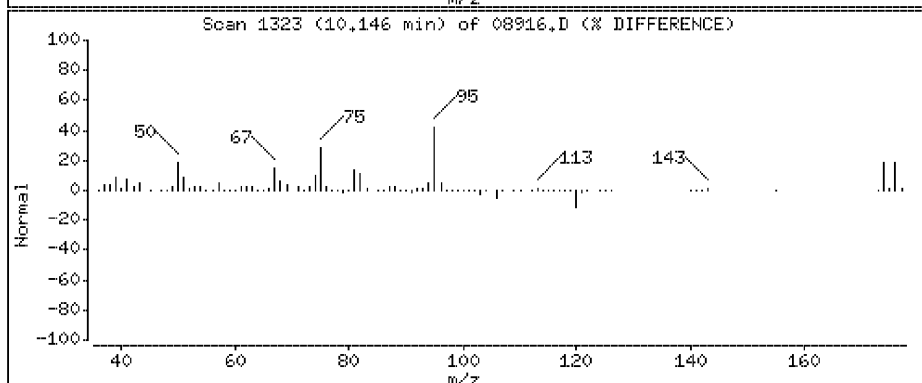
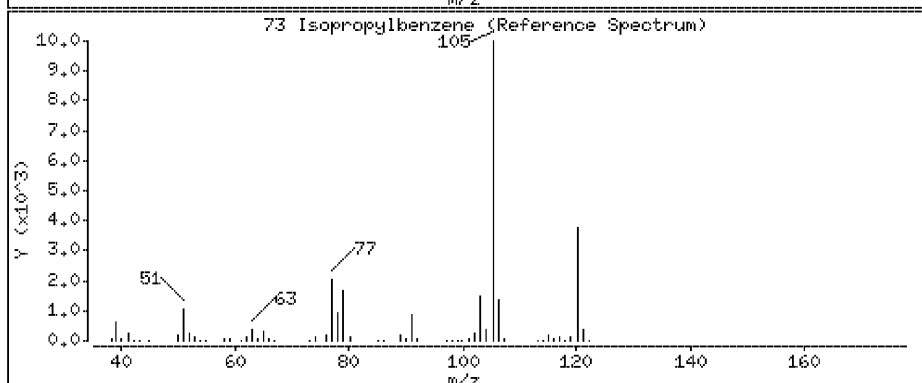
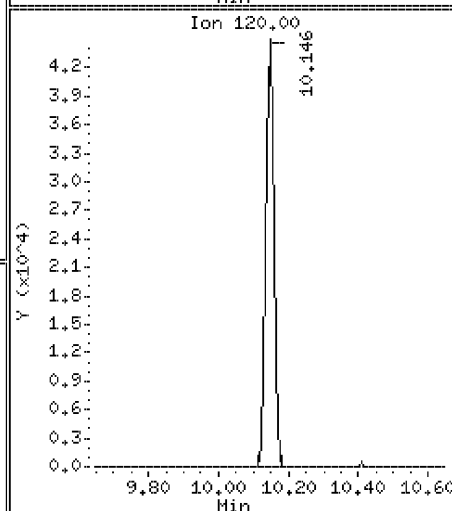
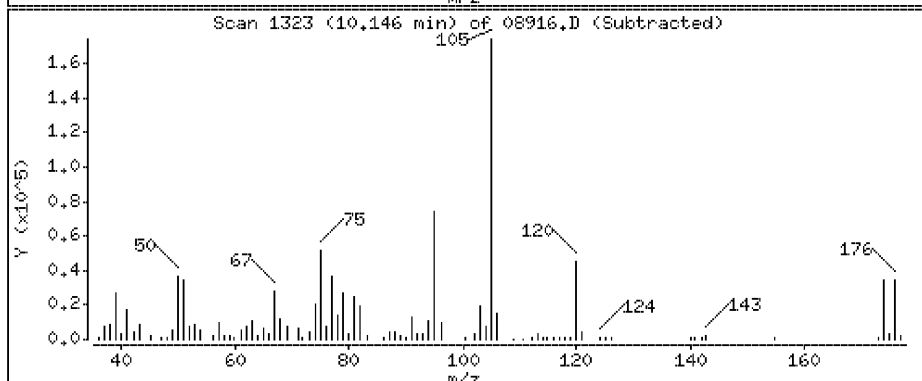
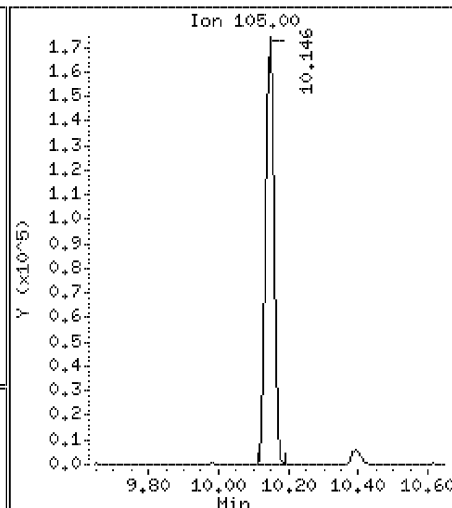
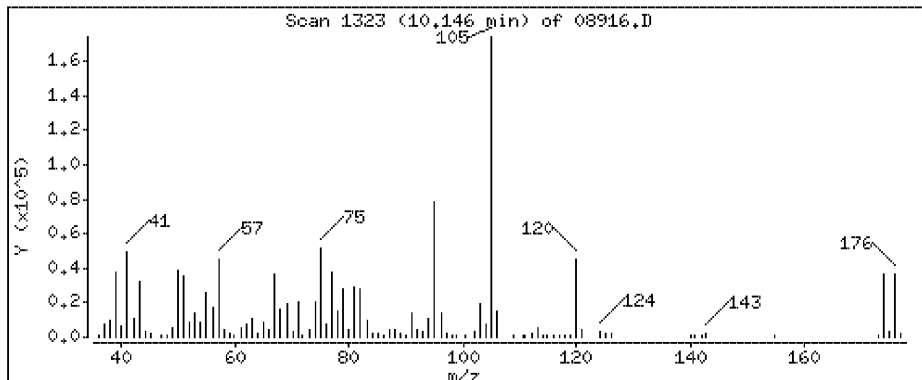
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

73 Isopropylbenzene

Concentration: 2.83 ppbv



Data File: \\192.168.10.12\chem\10airI.i\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

Sample Info:

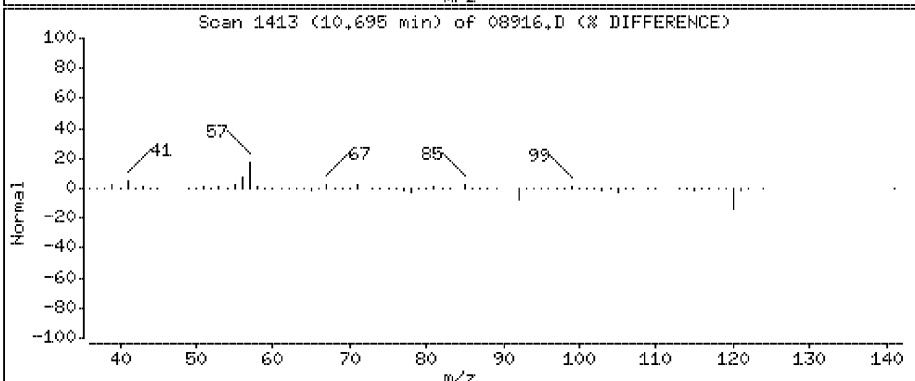
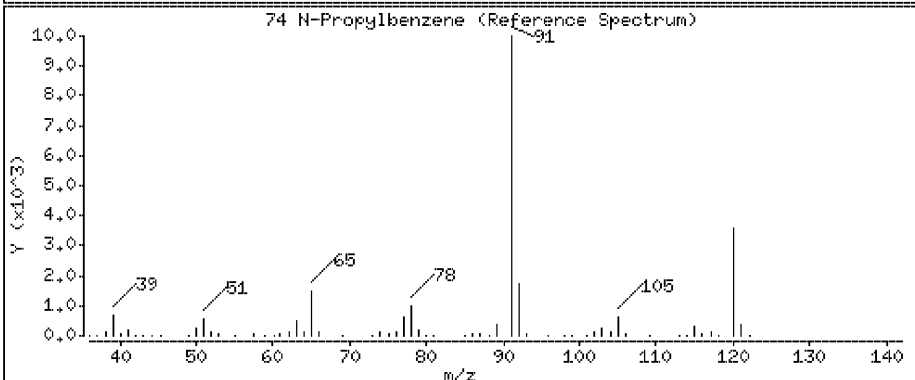
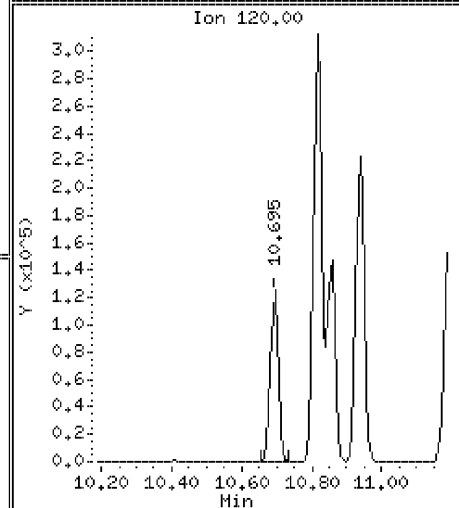
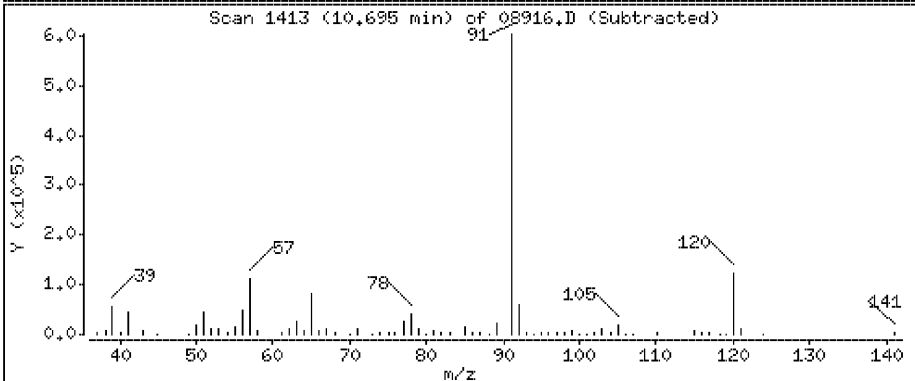
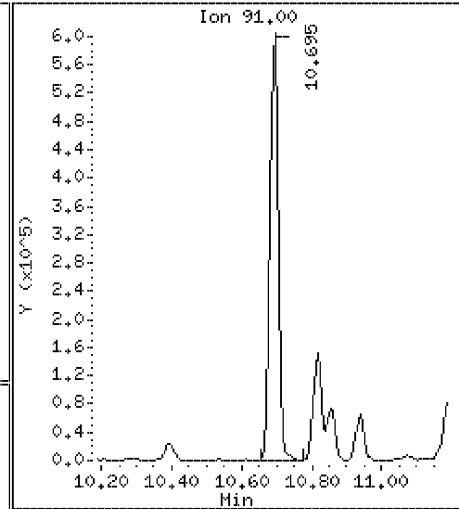
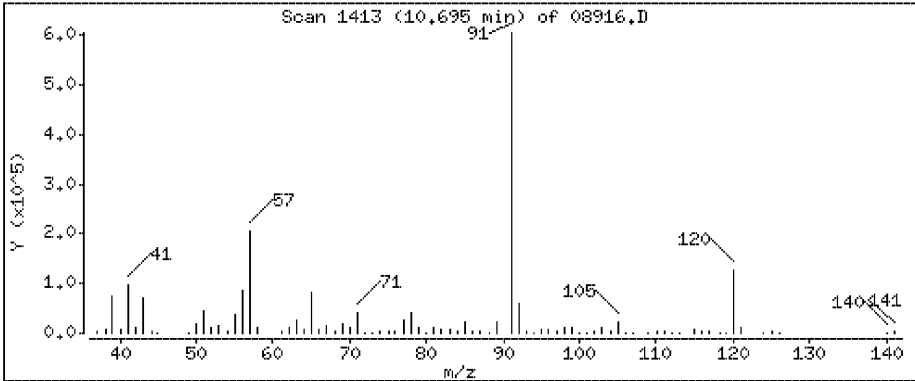
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

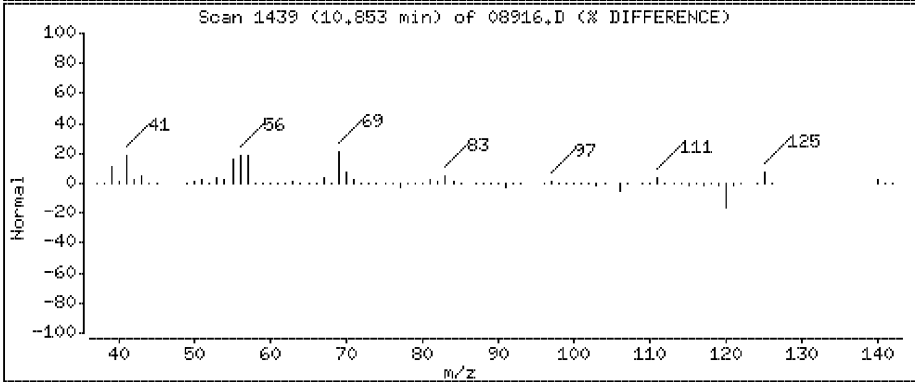
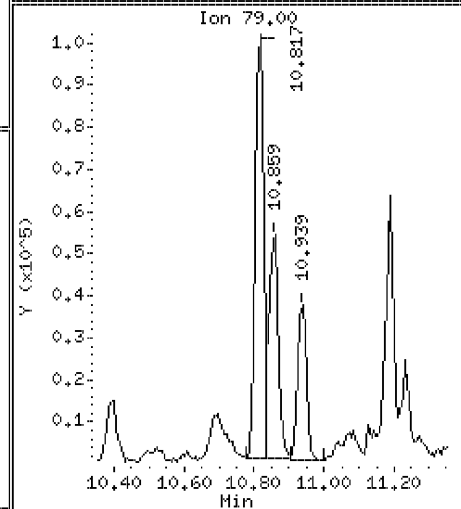
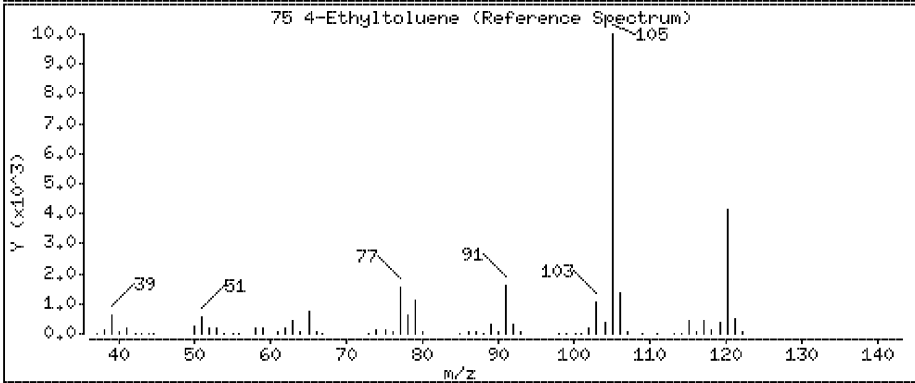
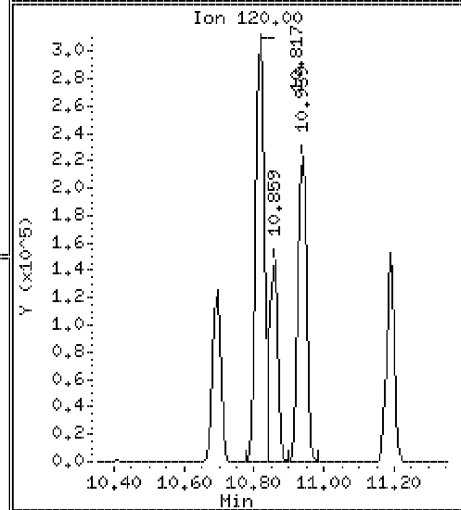
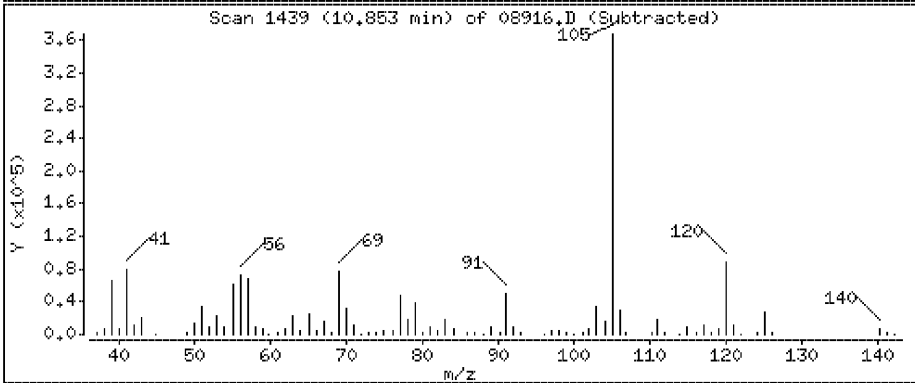
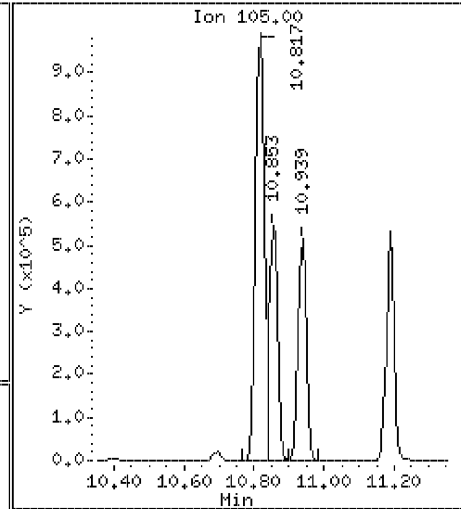
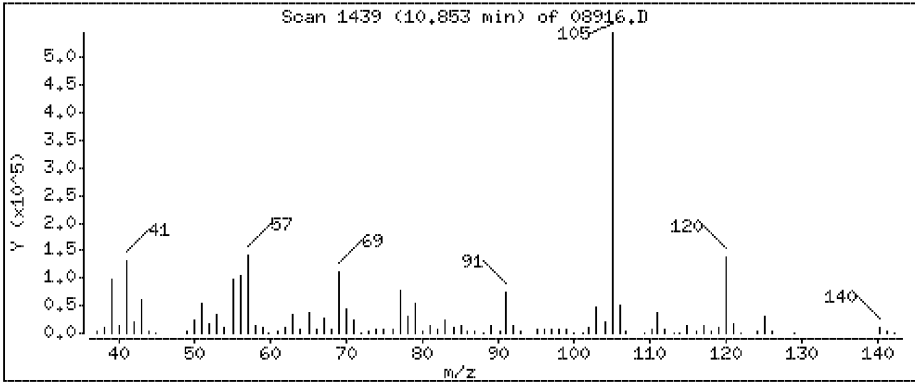
74 N-Propylbenzene

Concentration: 8.19 ppbv



75 4-Ethyltoluene

Concentration: 9.87 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

Sample Info:

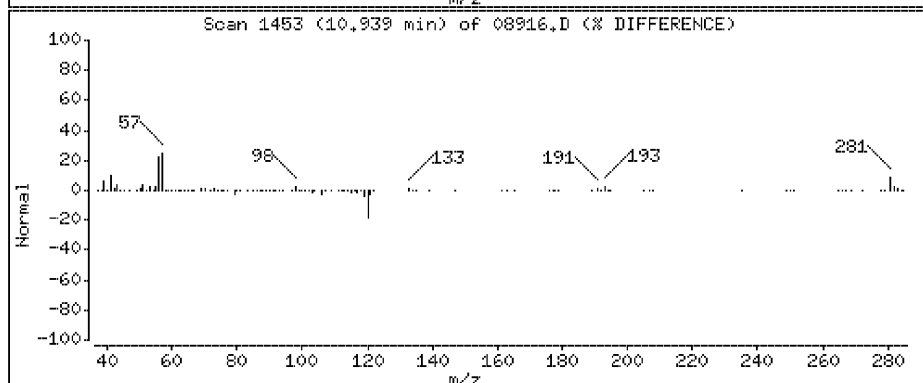
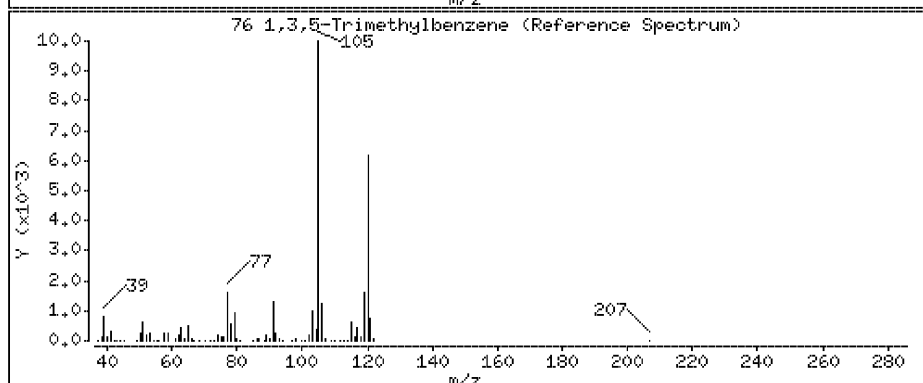
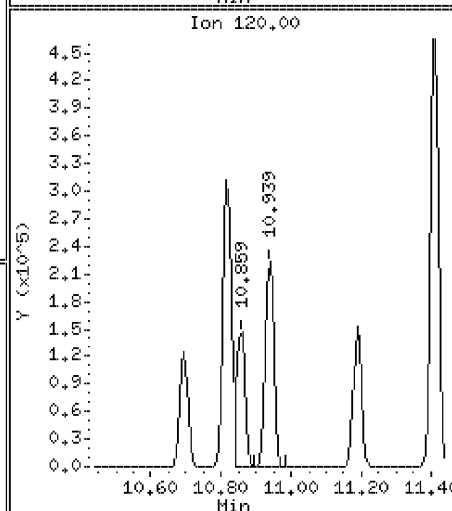
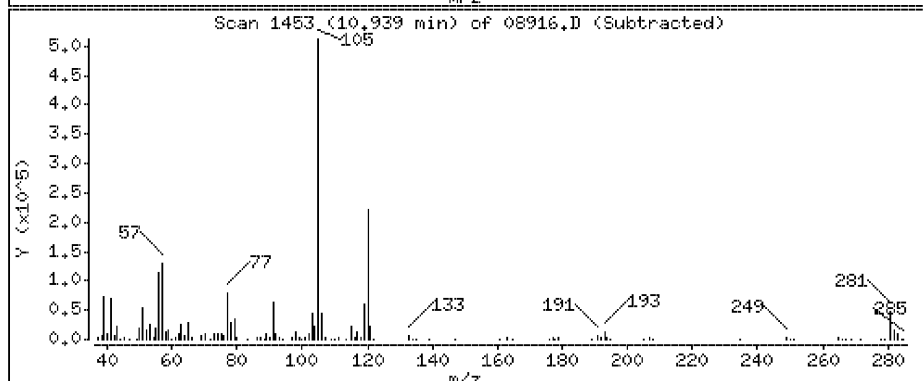
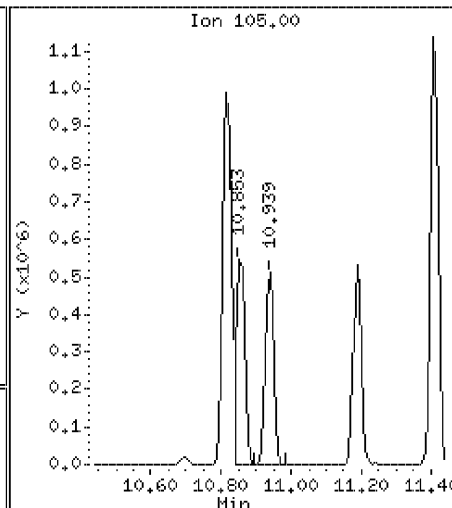
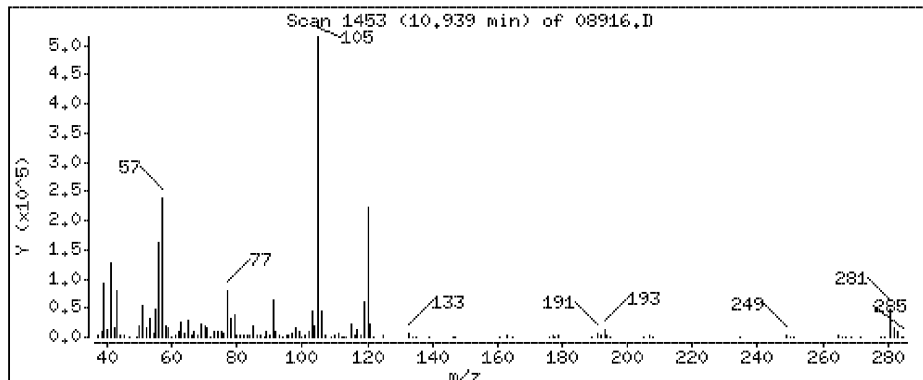
Operator: MJL

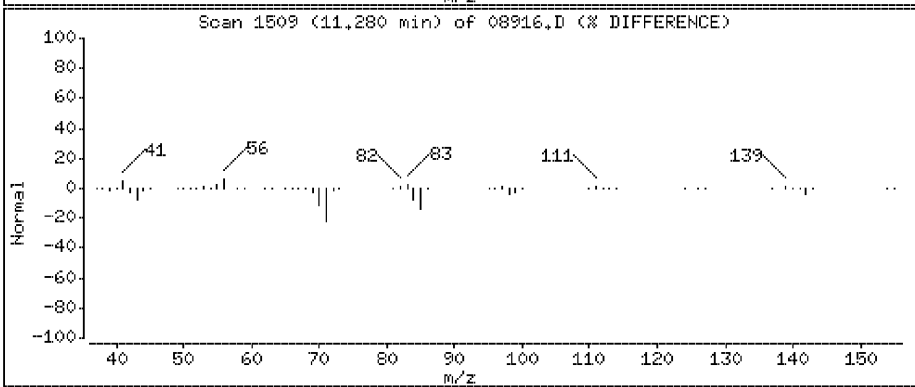
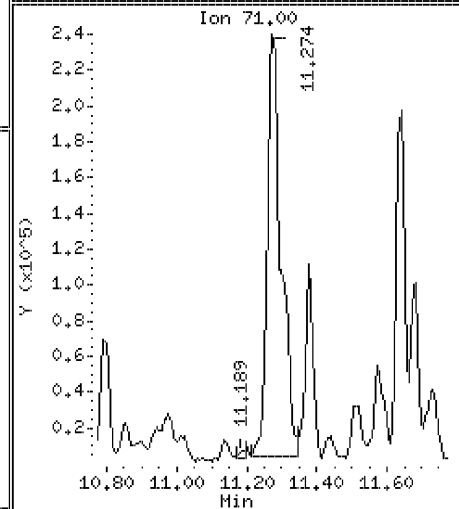
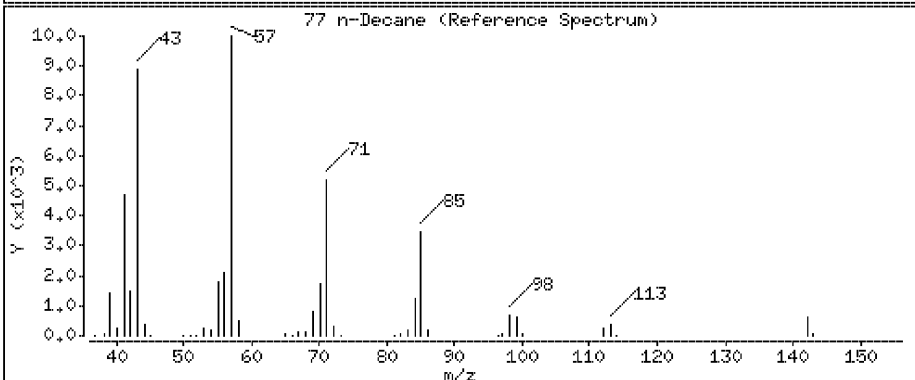
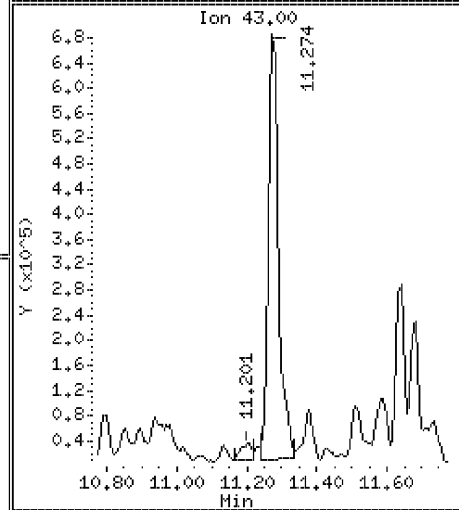
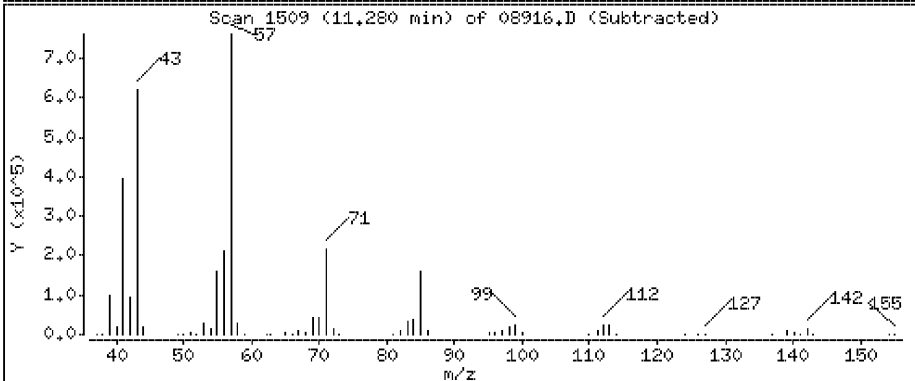
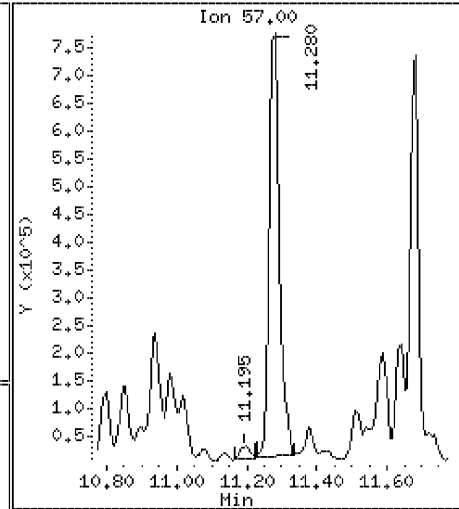
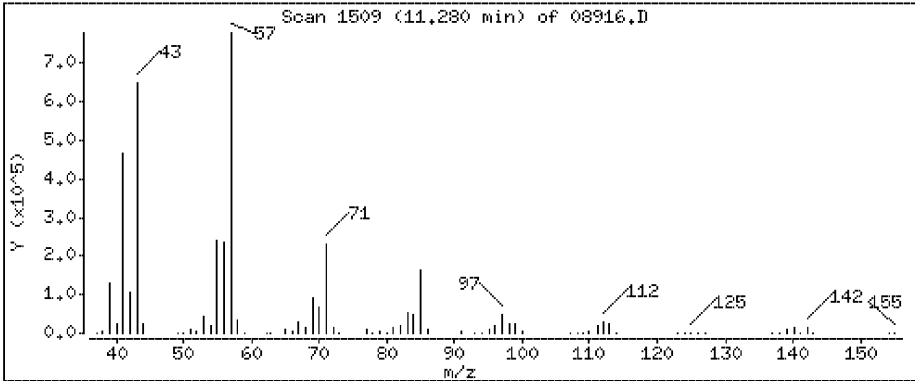
Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

76 1,3,5-Trimethylbenzene

Concentration: 10,5 ppbv





Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

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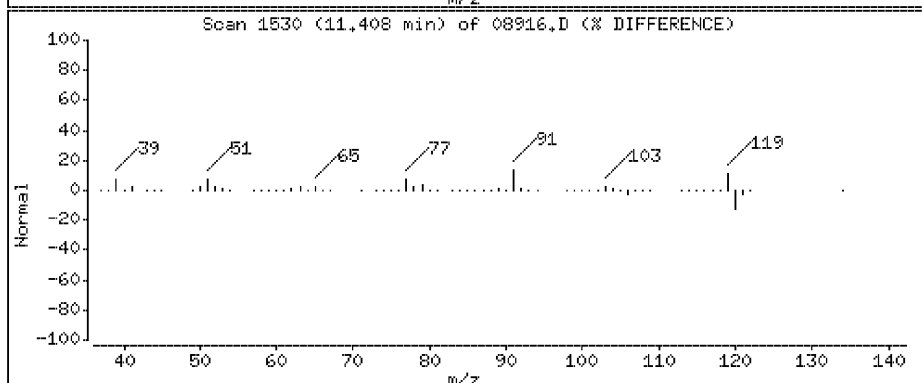
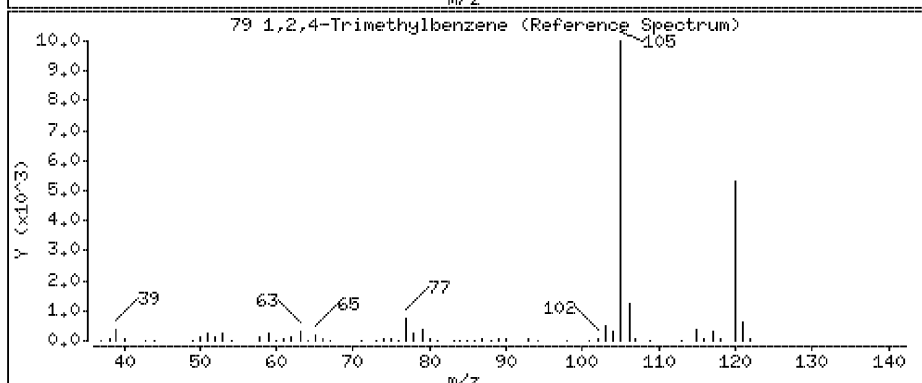
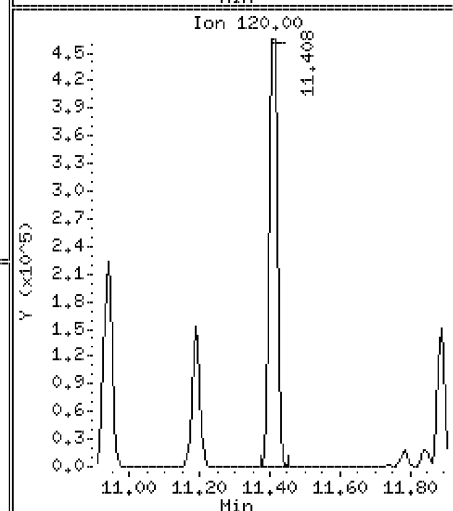
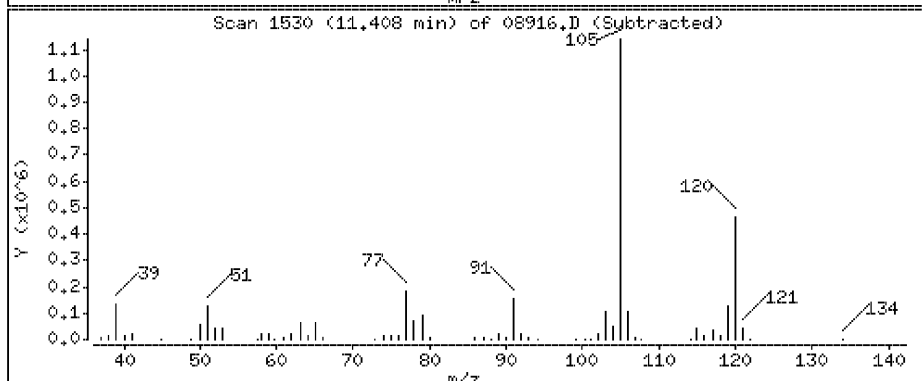
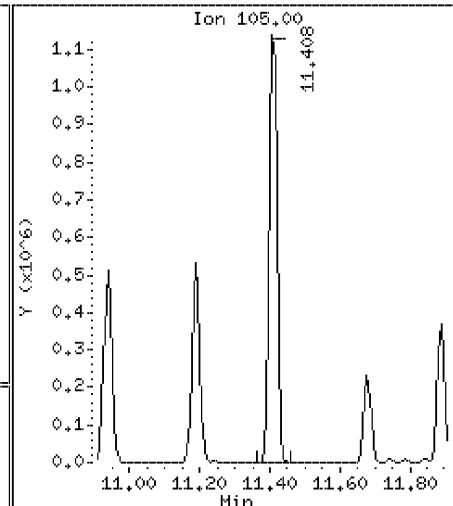
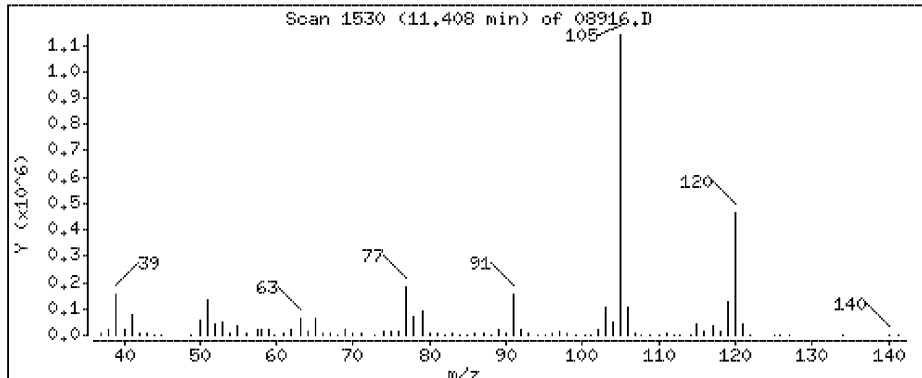
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

79 1,2,4-Trimethylbenzene

Concentration: 22.3 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

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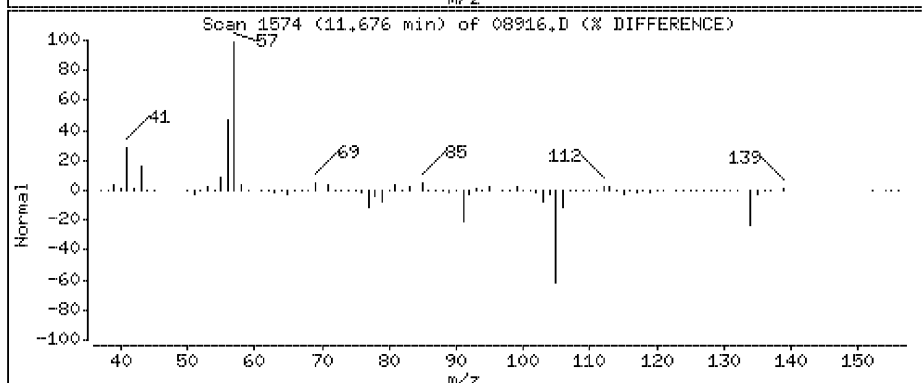
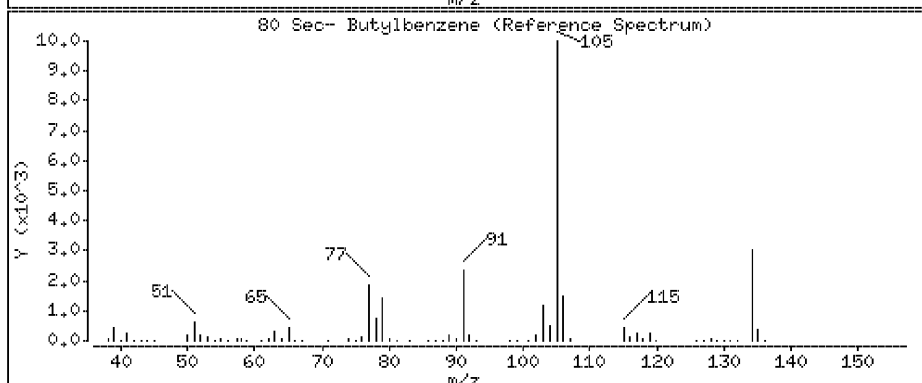
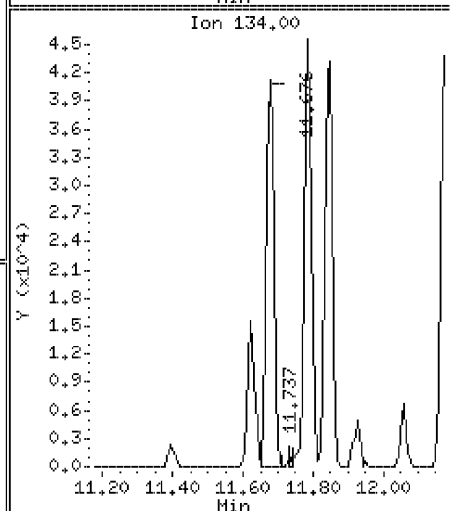
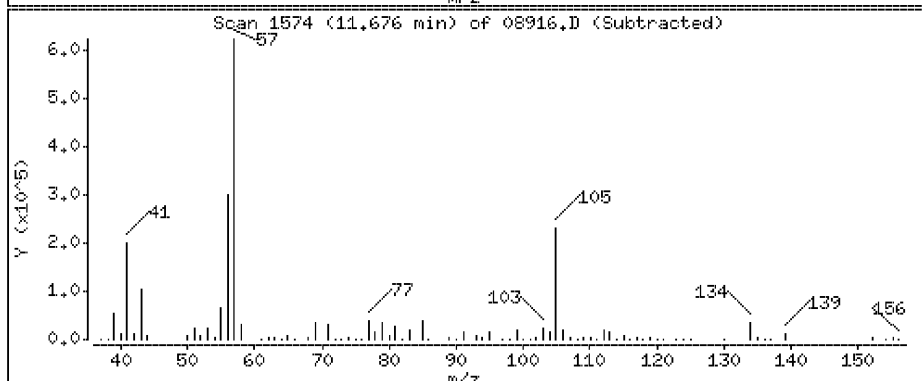
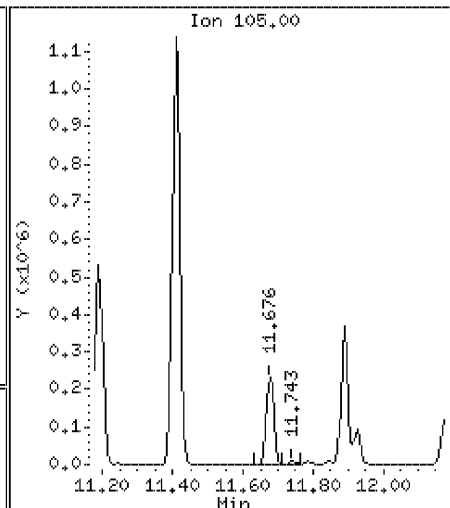
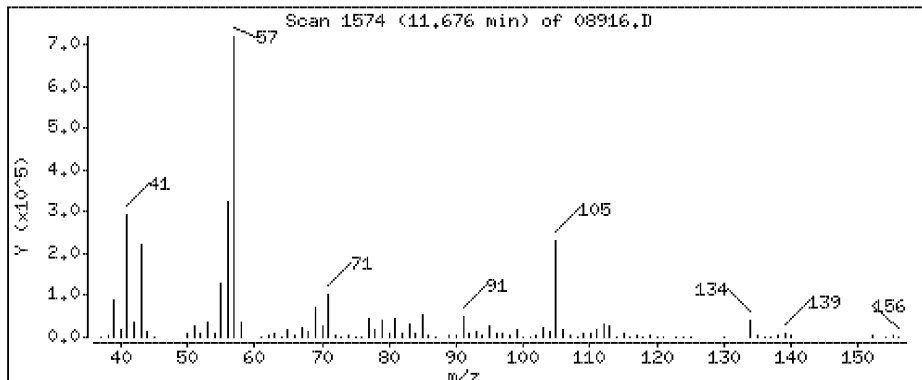
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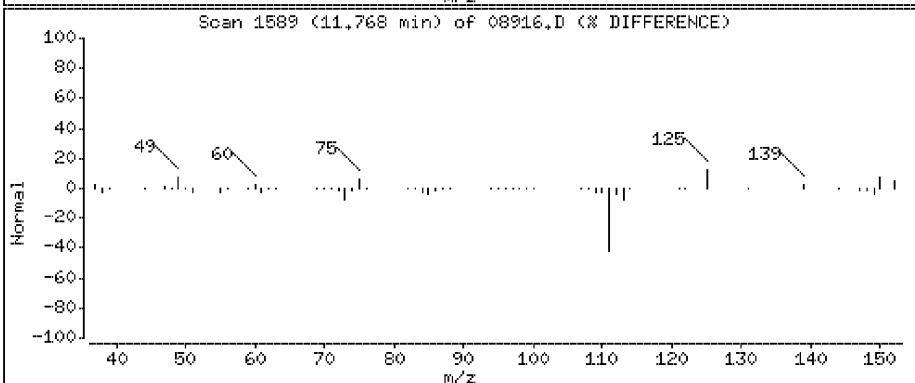
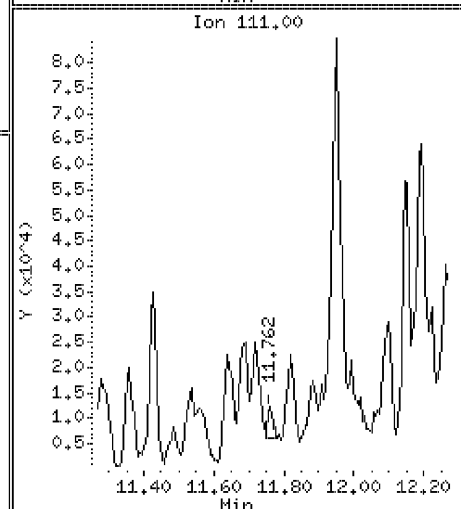
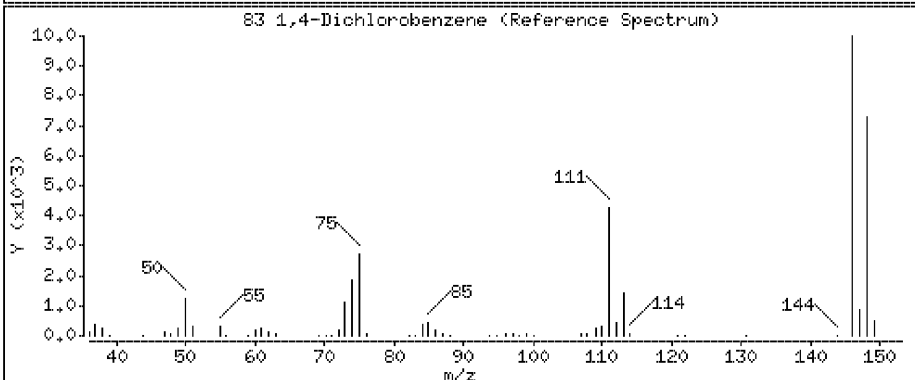
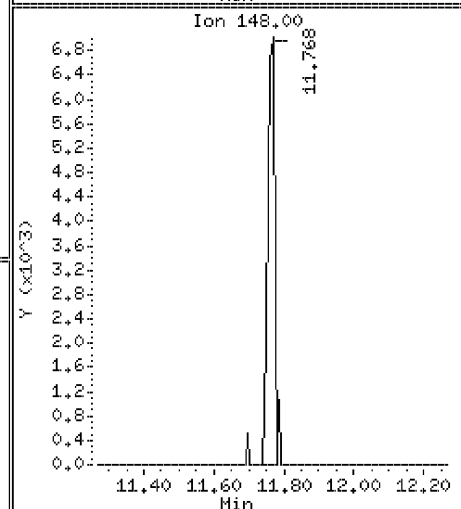
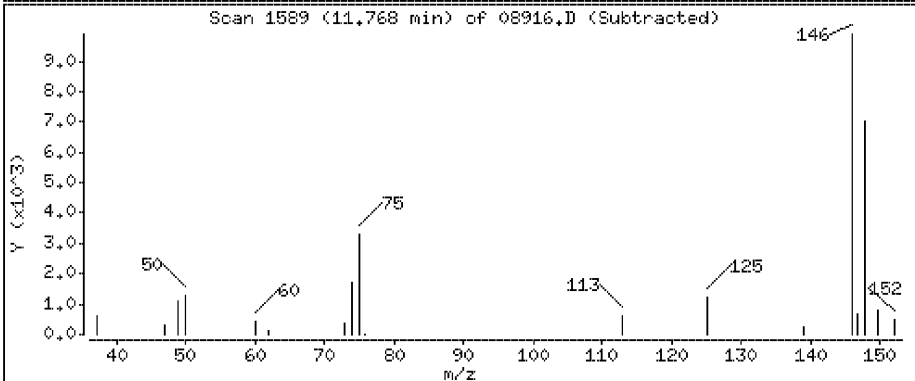
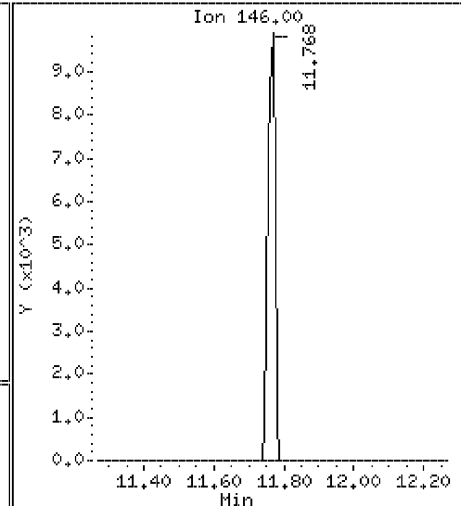
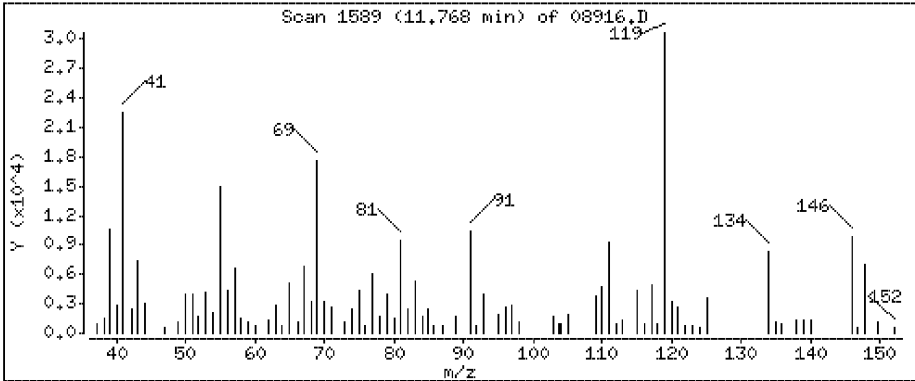
Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

80 Sec- Butylbenzene

Concentration: 3.11 ppbv





Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

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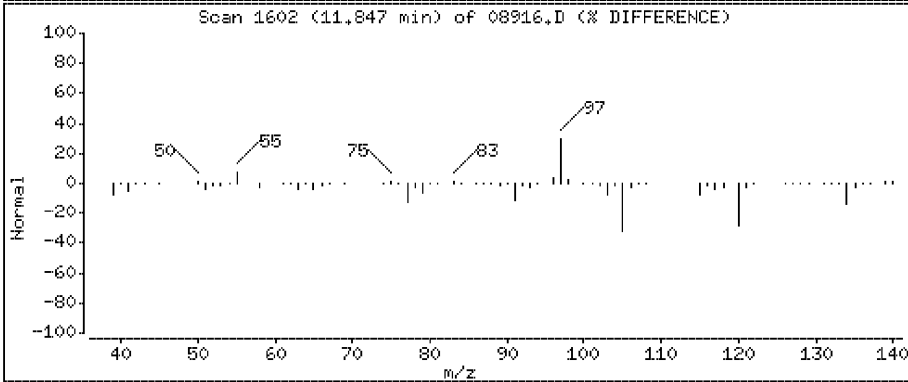
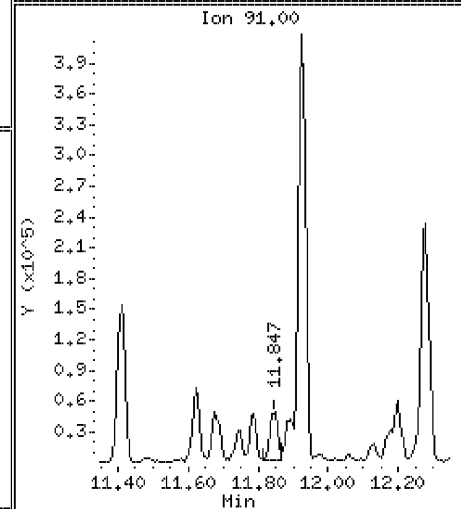
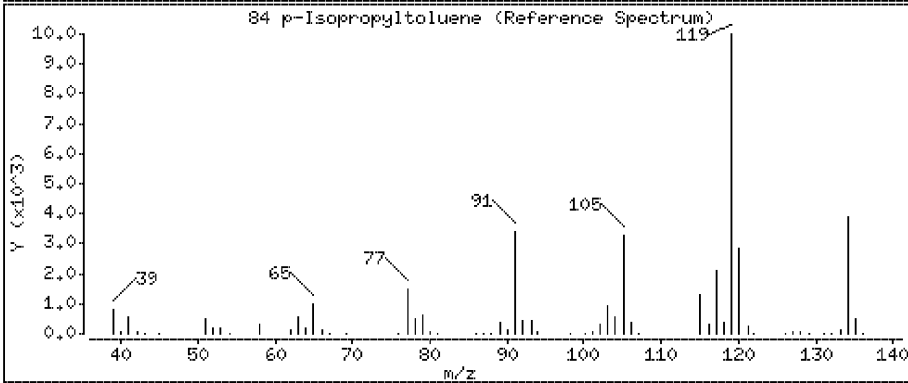
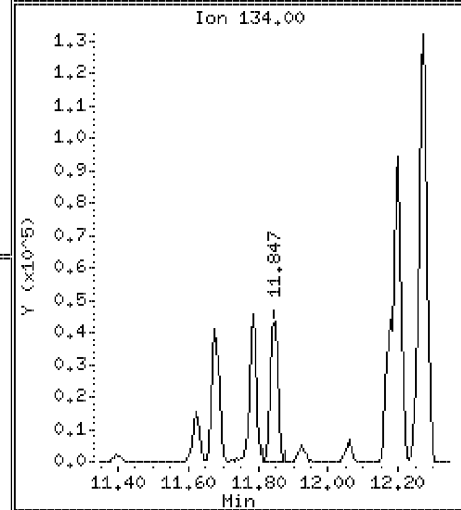
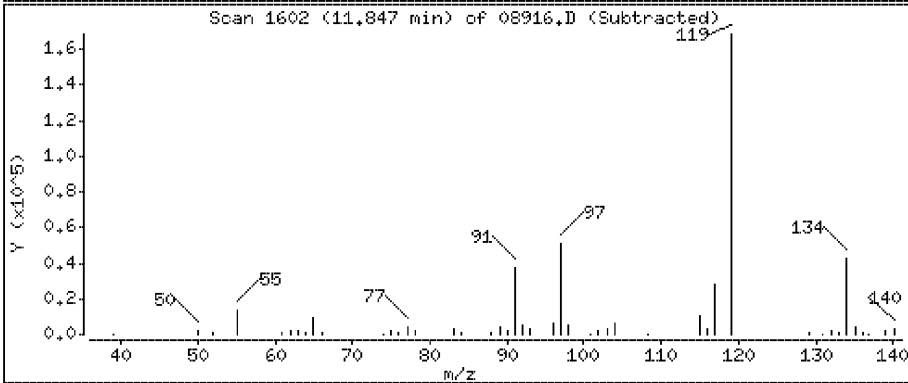
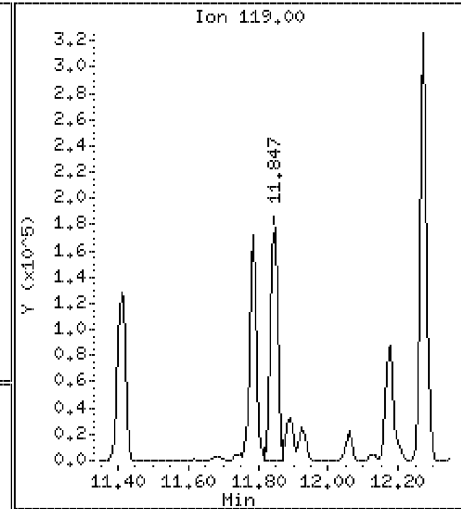
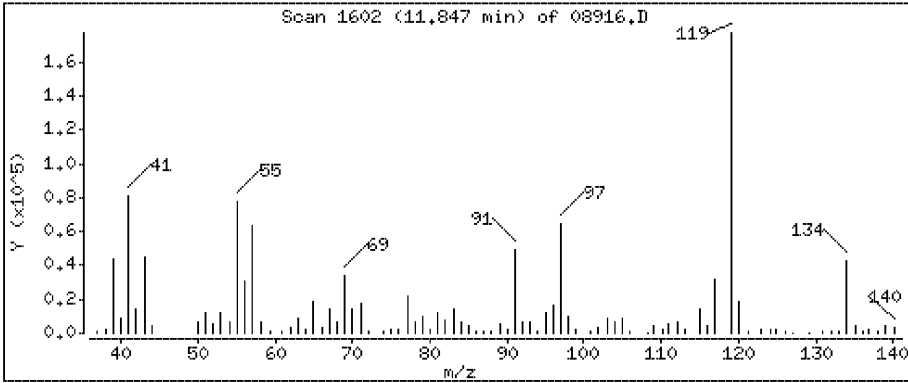
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

84 p-Isopropyltoluene

Concentration: 2.85 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

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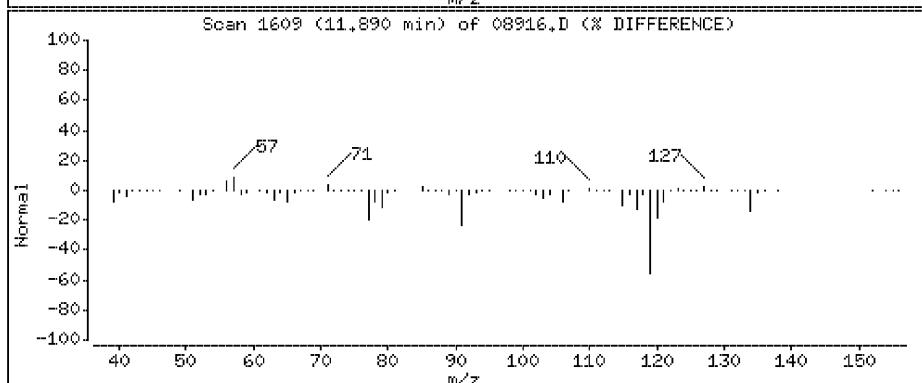
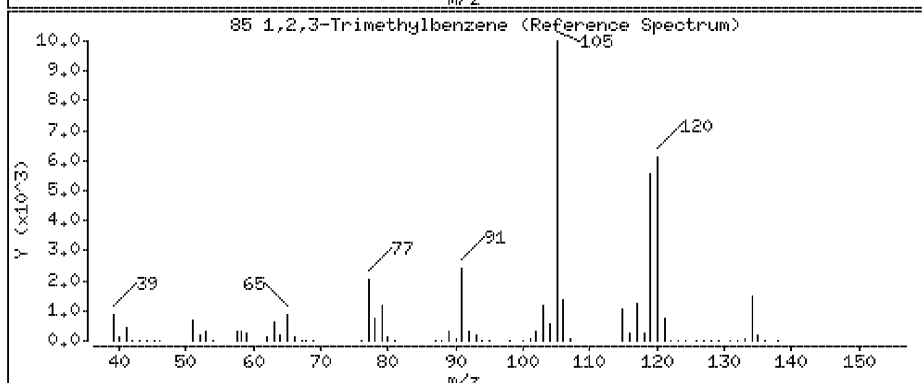
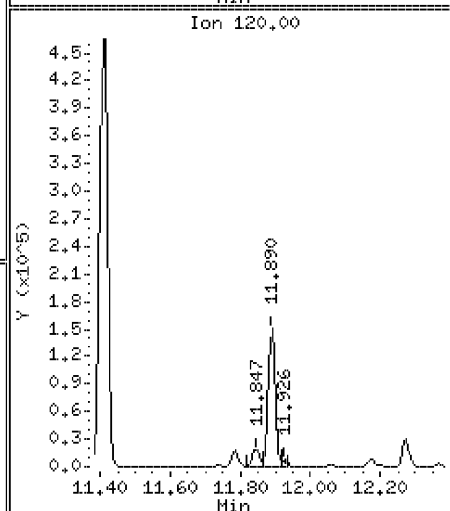
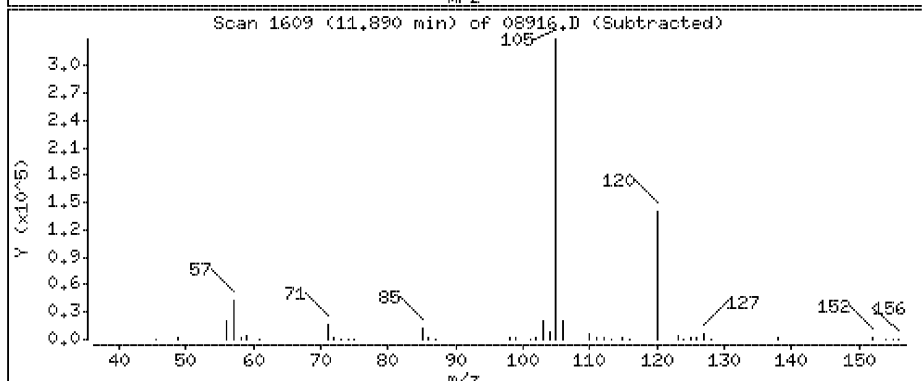
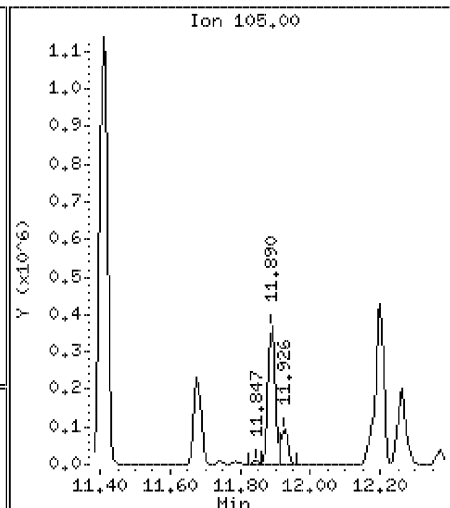
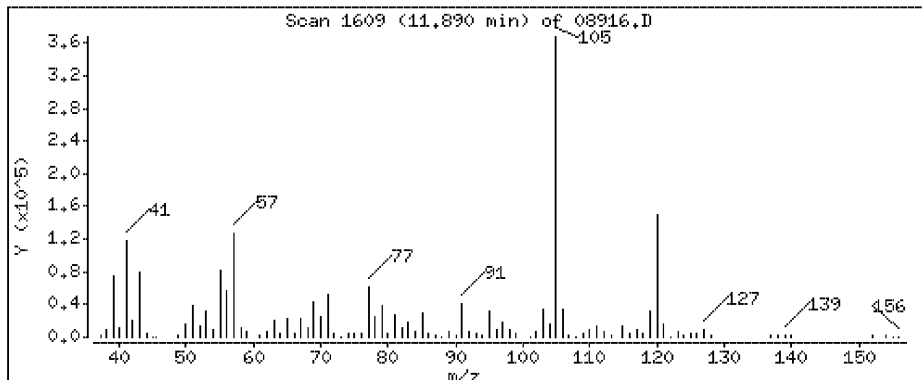
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Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

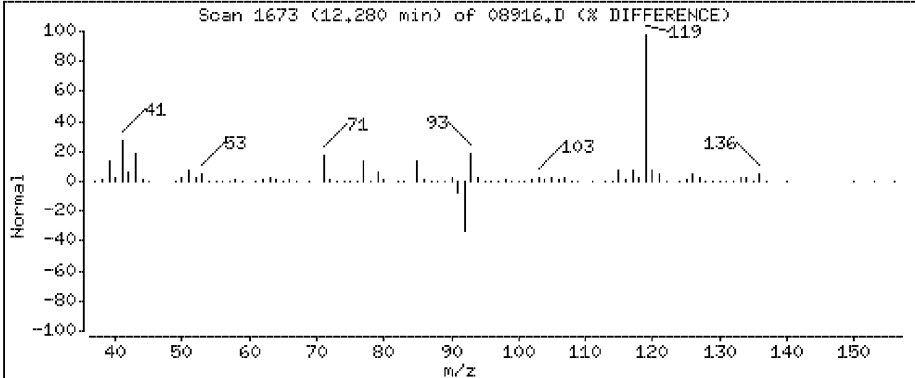
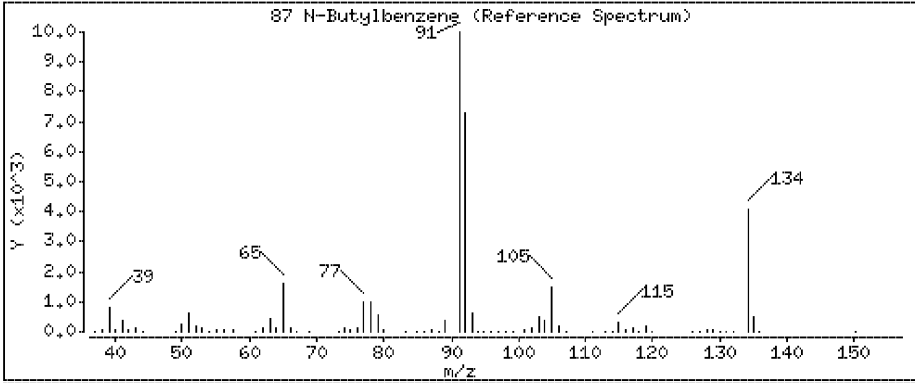
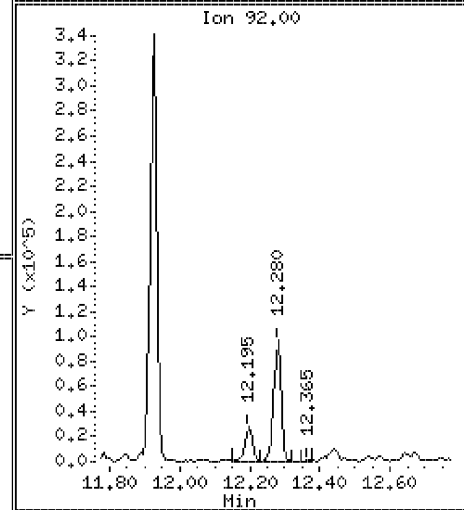
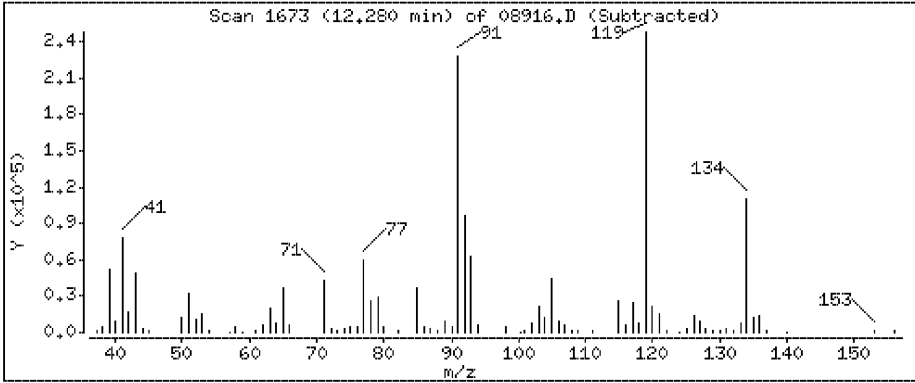
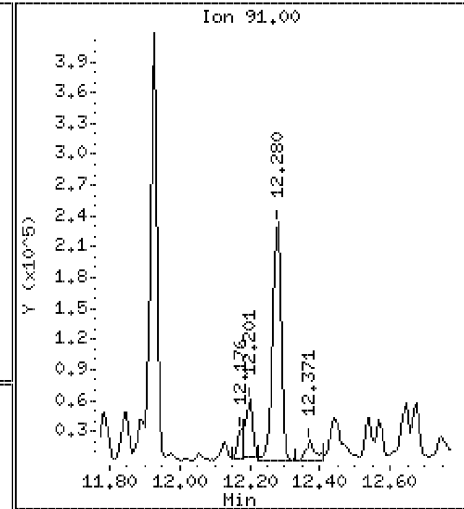
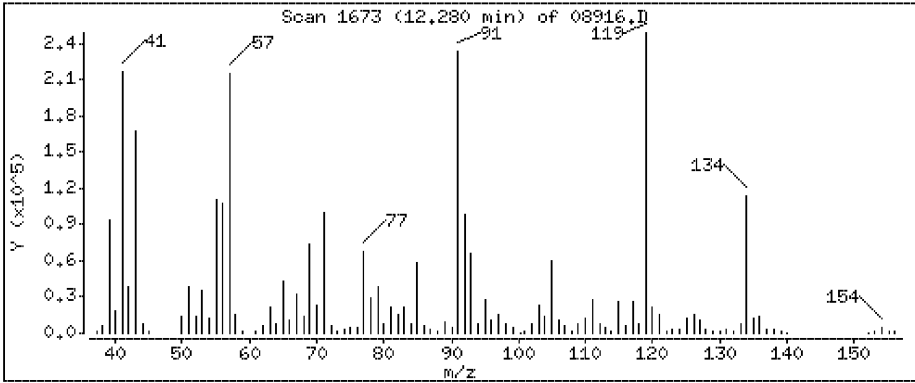
85 1,2,3-Trimethylbenzene

Concentration: 6.91 ppbv



87 N-Butylbenzene

Concentration: 4.59 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08916.D

Date : 30-MAR-2019 13:53

Client ID:

Instrument: 10airI.i

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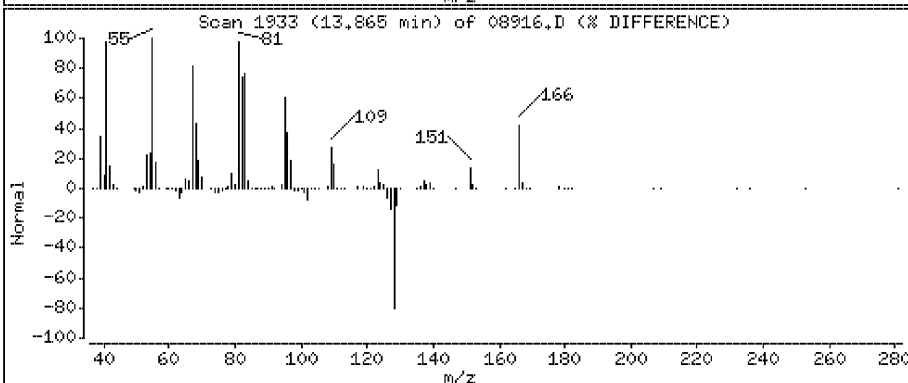
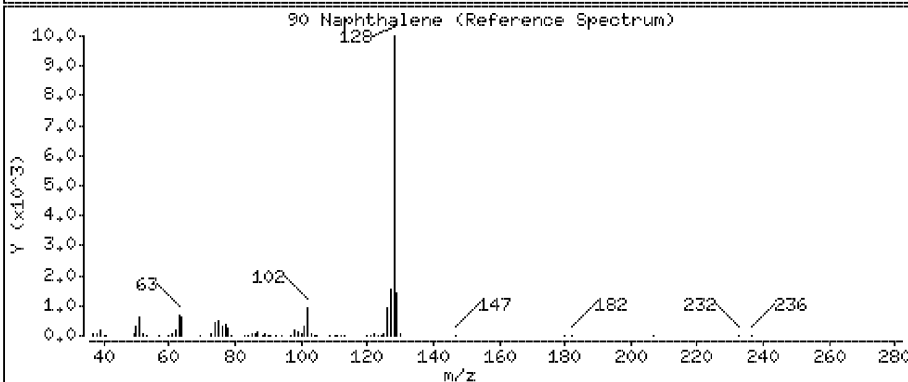
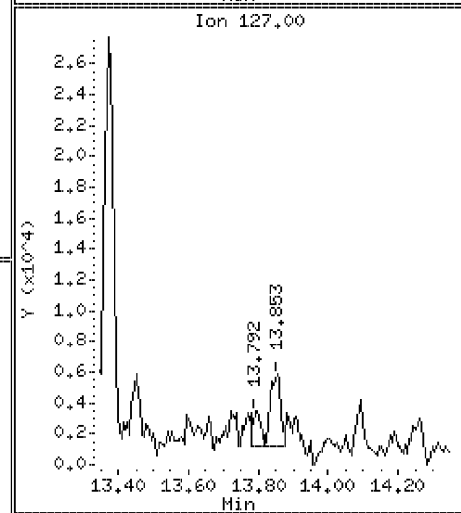
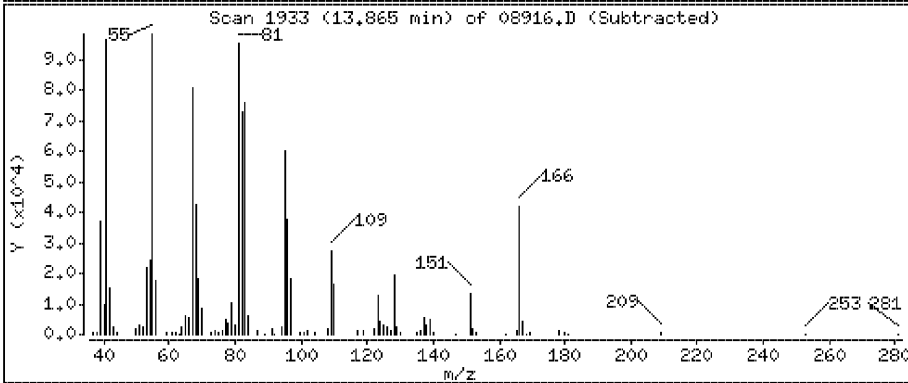
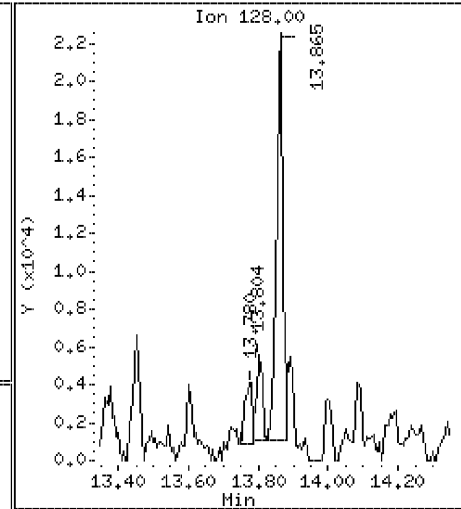
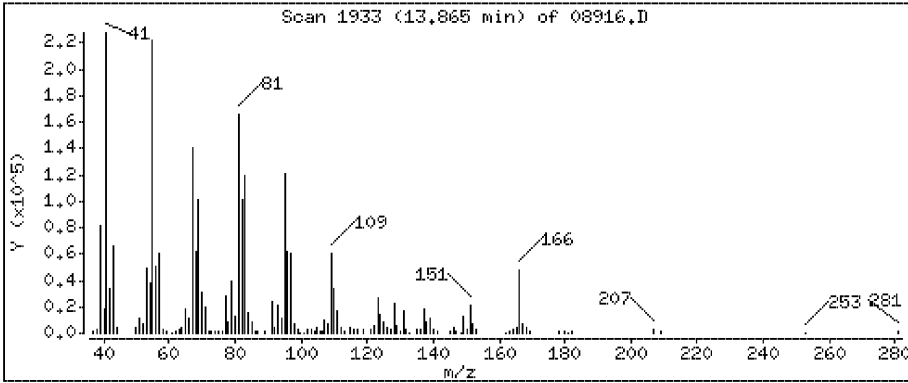
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

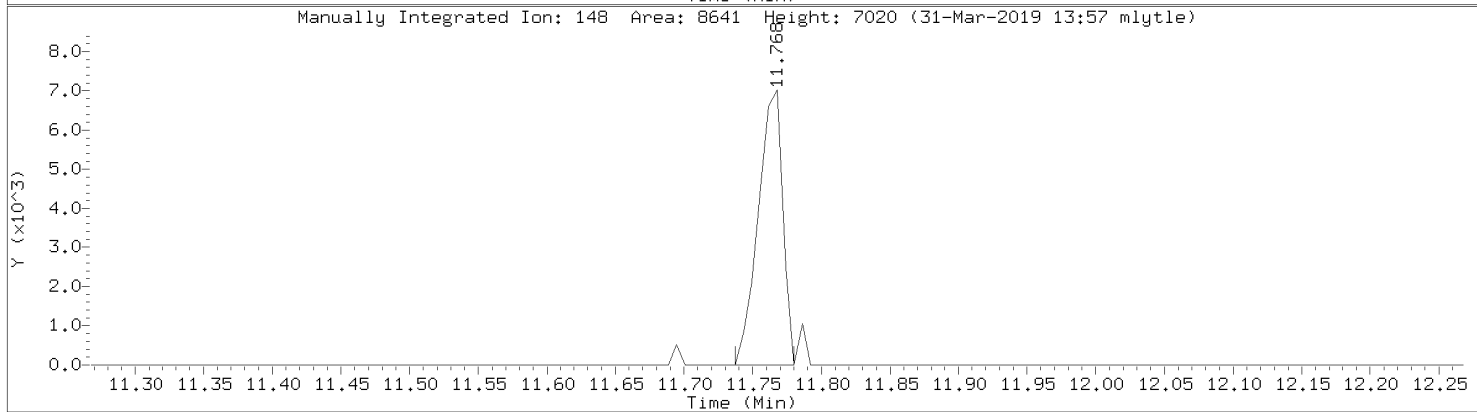
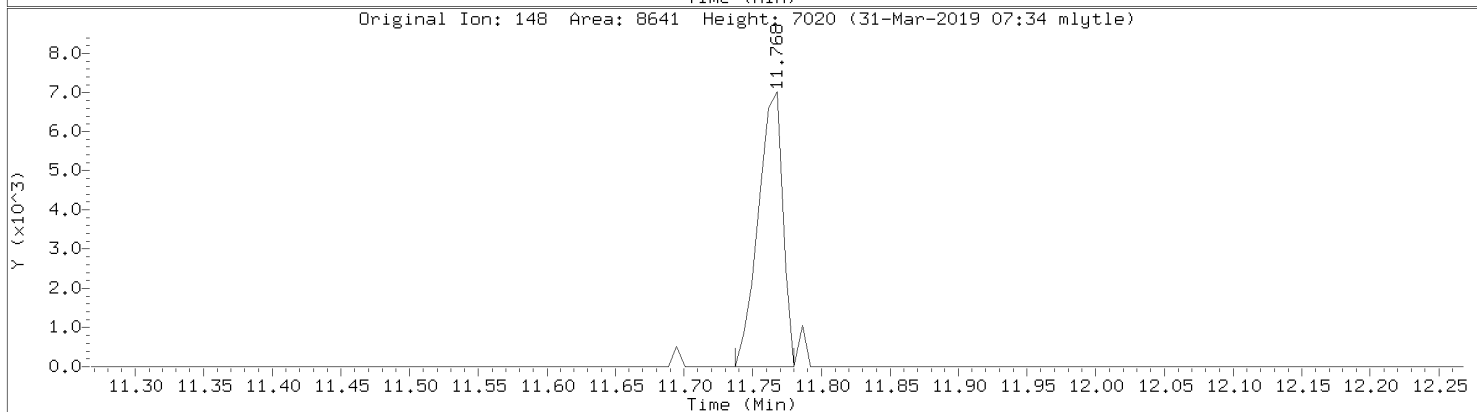
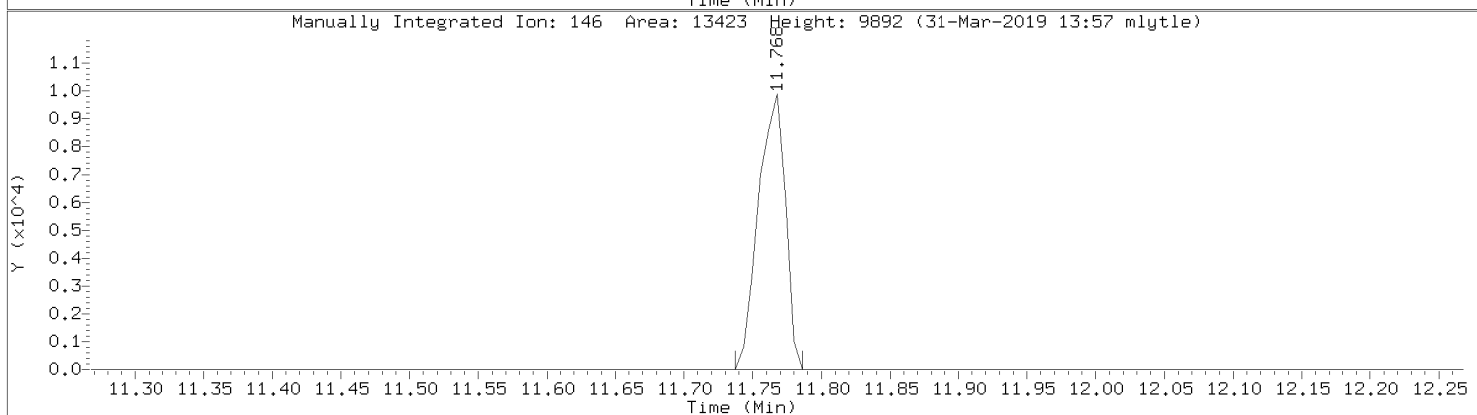
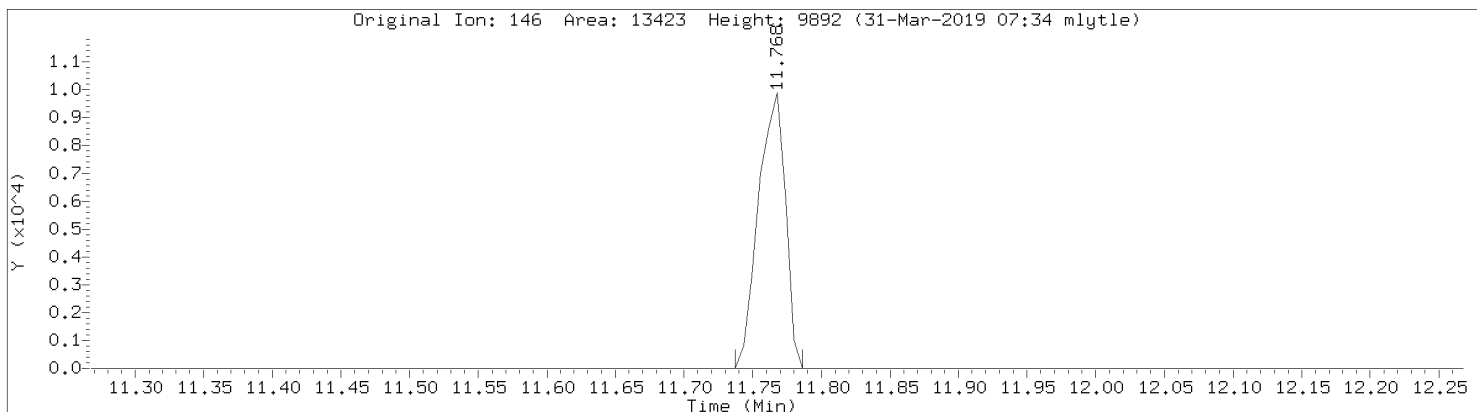
90 Naphthalene

Concentration: 0.502 ppbv

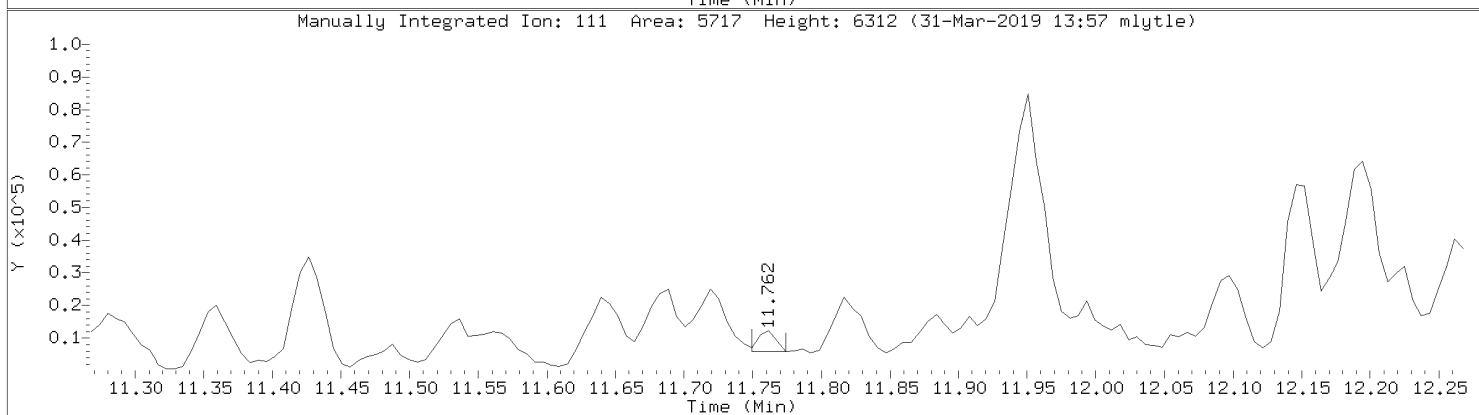
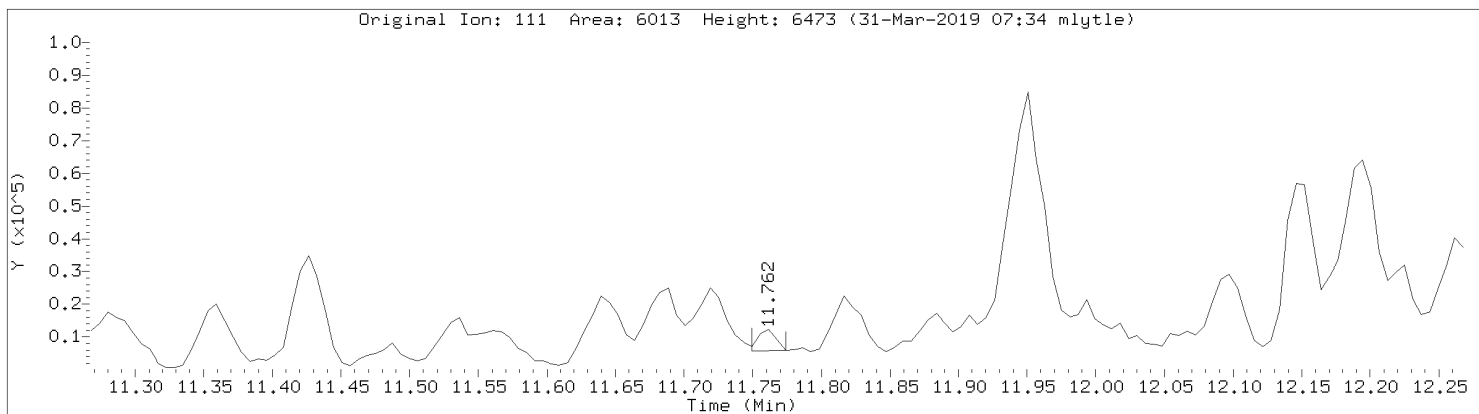


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08916.D
Injection Date: 30-MAR-2019 13:53
Instrument: 10airI.i
Lab Sample ID: 10468767003

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

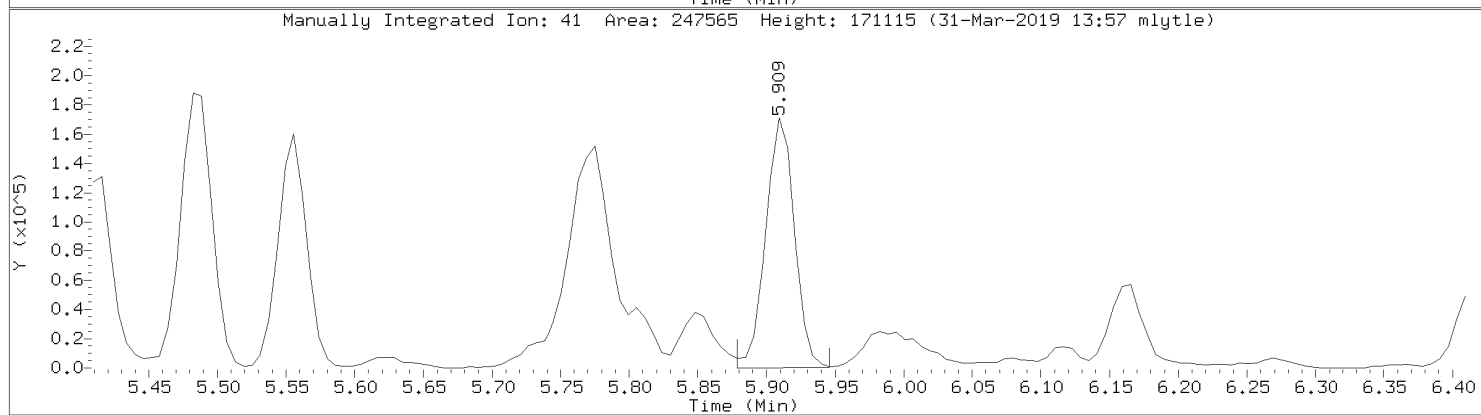
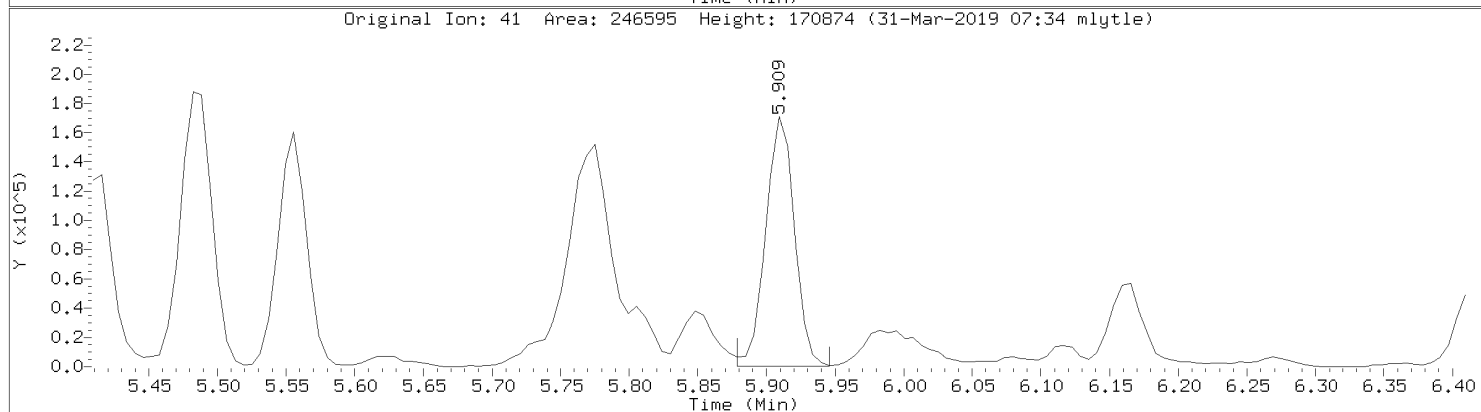
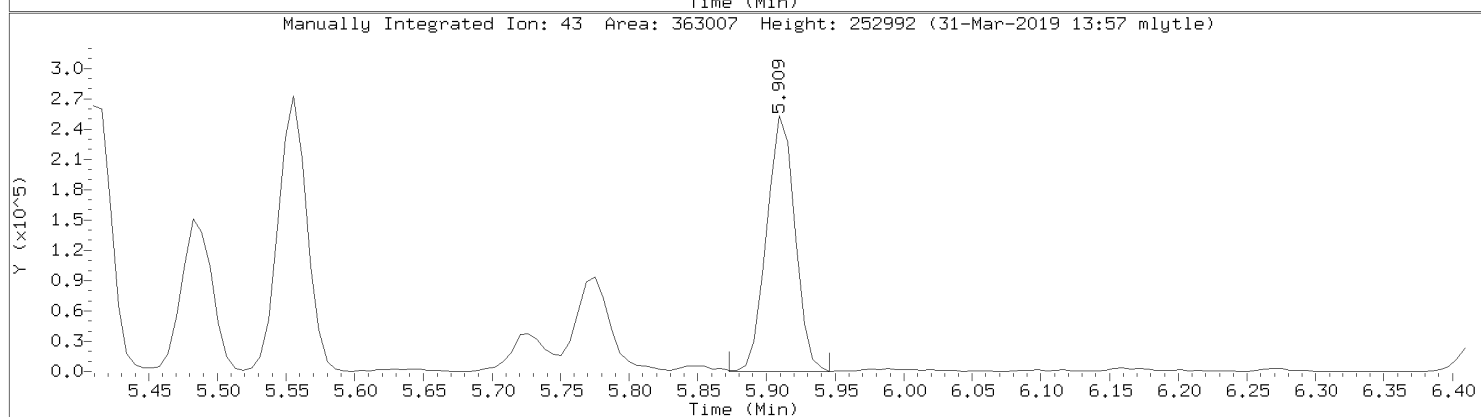
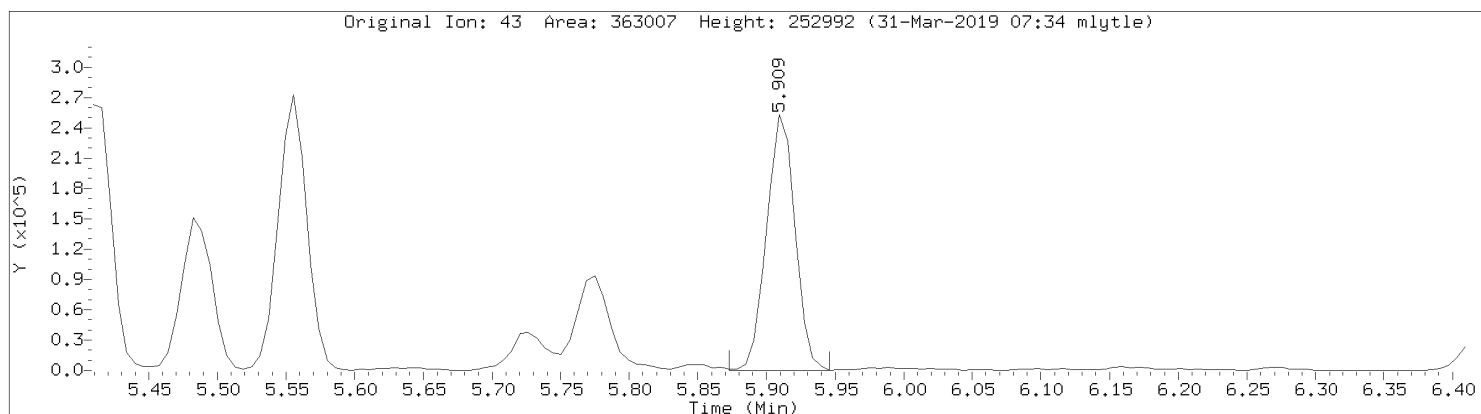


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Injection Date: 30-MAR-2019 13:53
Instrument: 10airI.i
Lab Sample ID: 10468767003



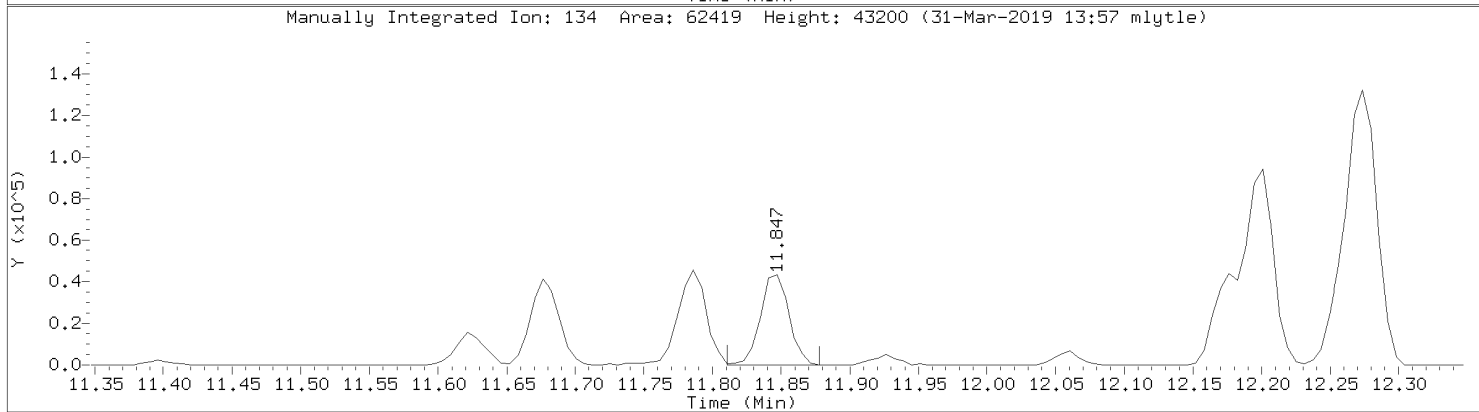
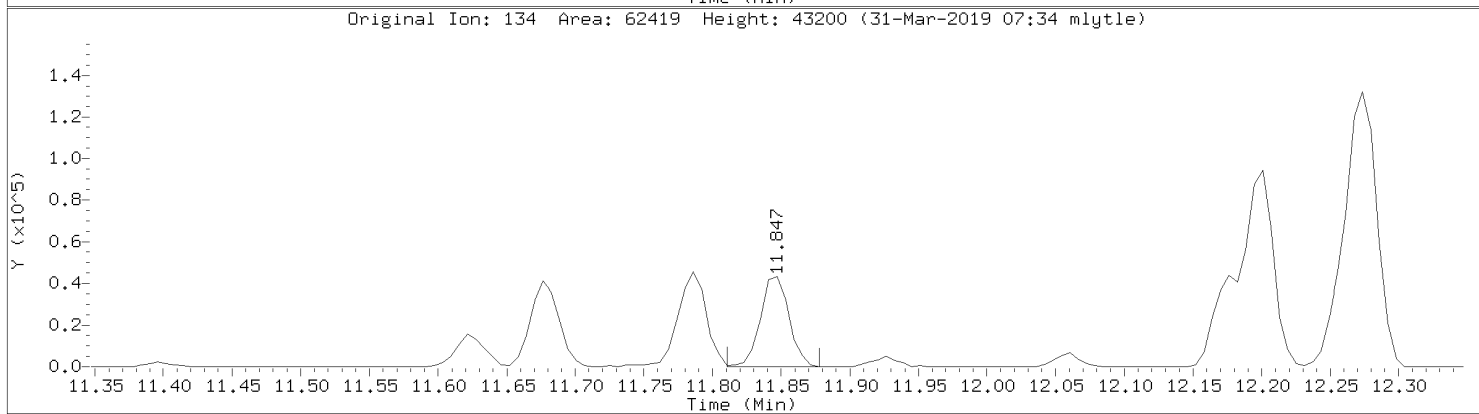
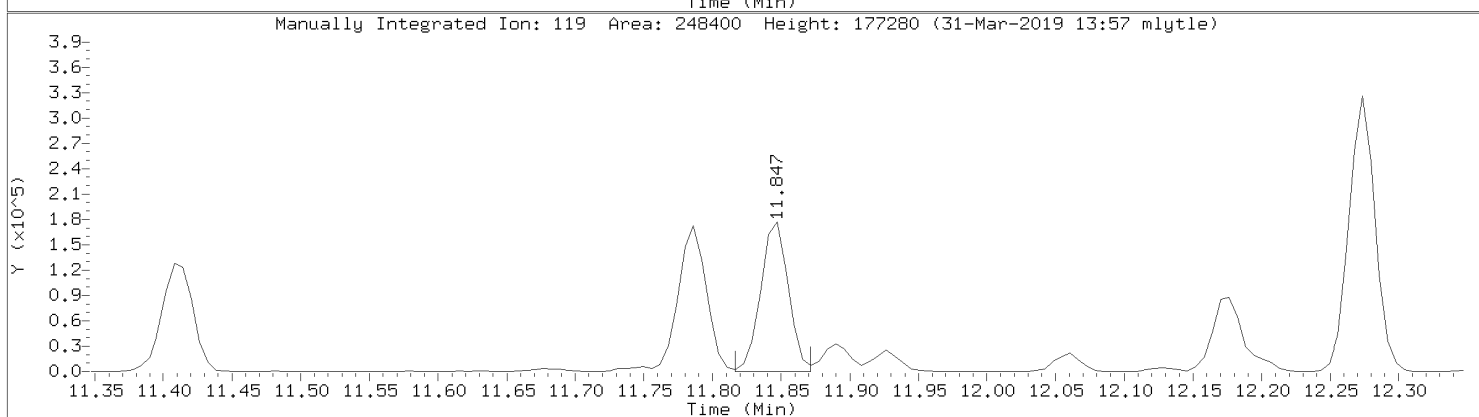
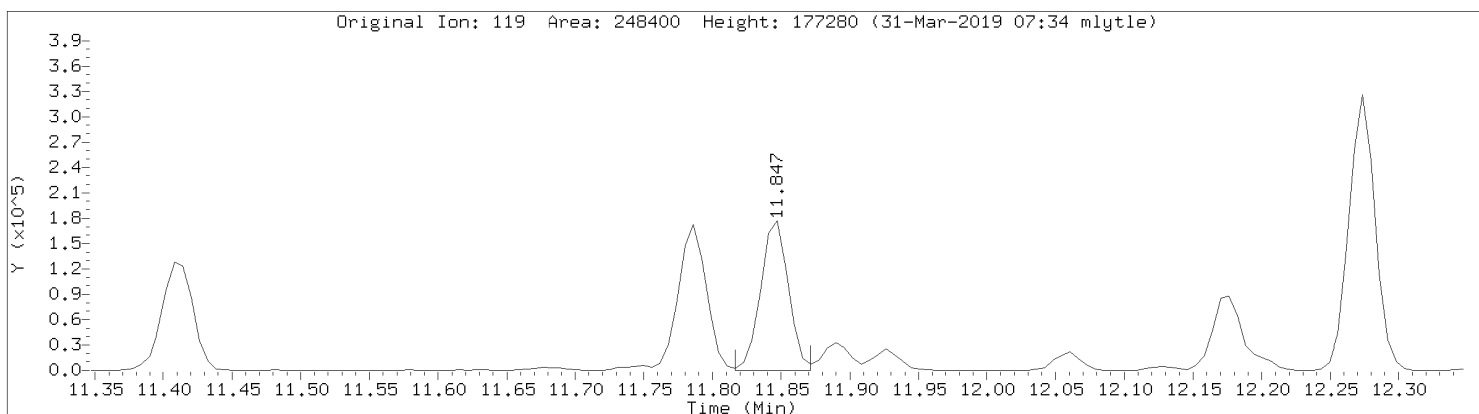
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Injection Date: 30-MAR-2019 13:53
Instrument: 10airI.i
Lab Sample ID: 10468767003

Compound: Heptane
CAS Number: 142-82-5

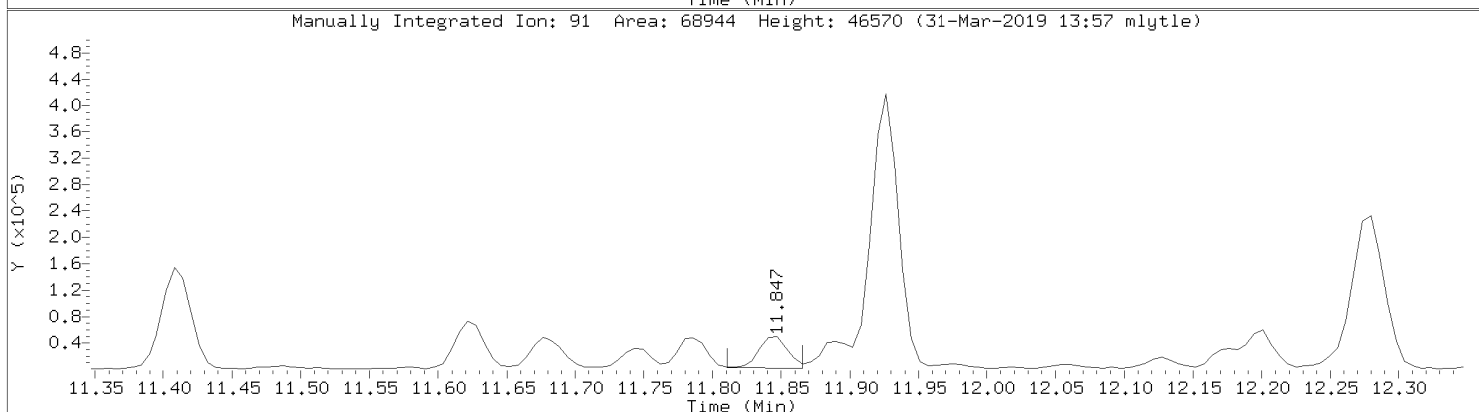
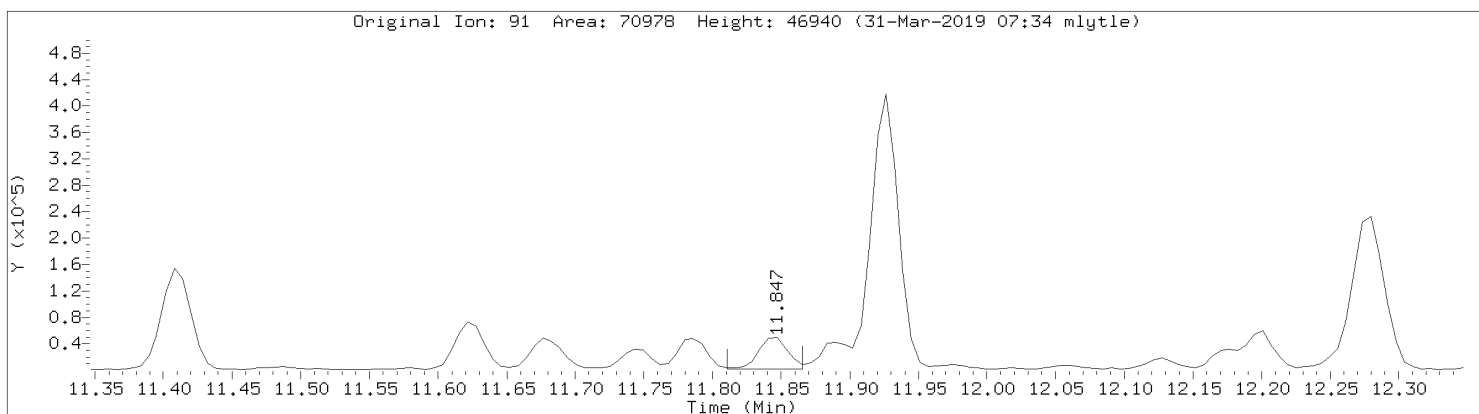


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08916.D
Injection Date: 30-MAR-2019 13:53
Instrument: 10airI.i
Lab Sample ID: 10468767003

Compound: p-Isopropyltoluene
CAS Number: 99-87-6

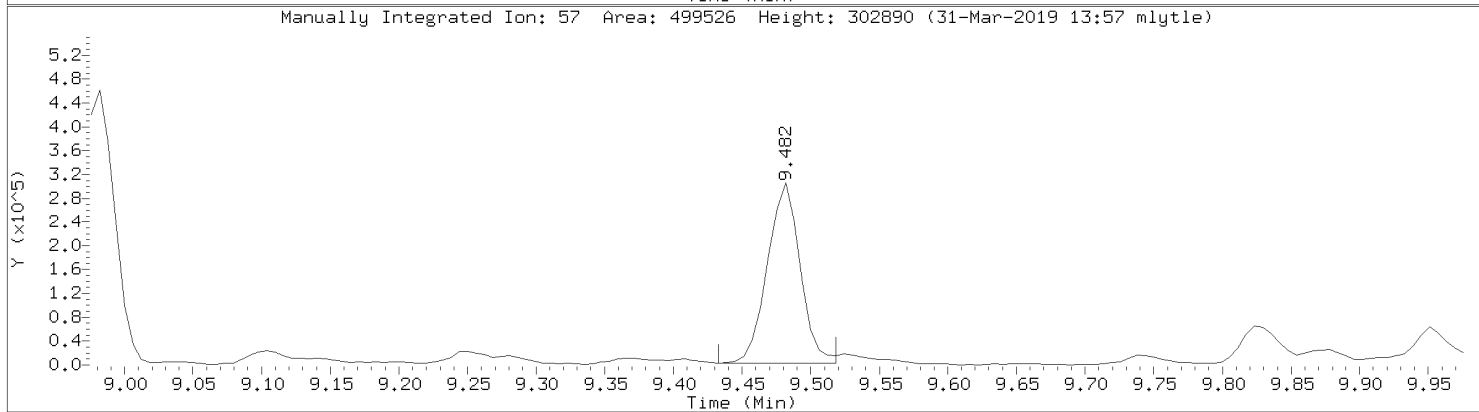
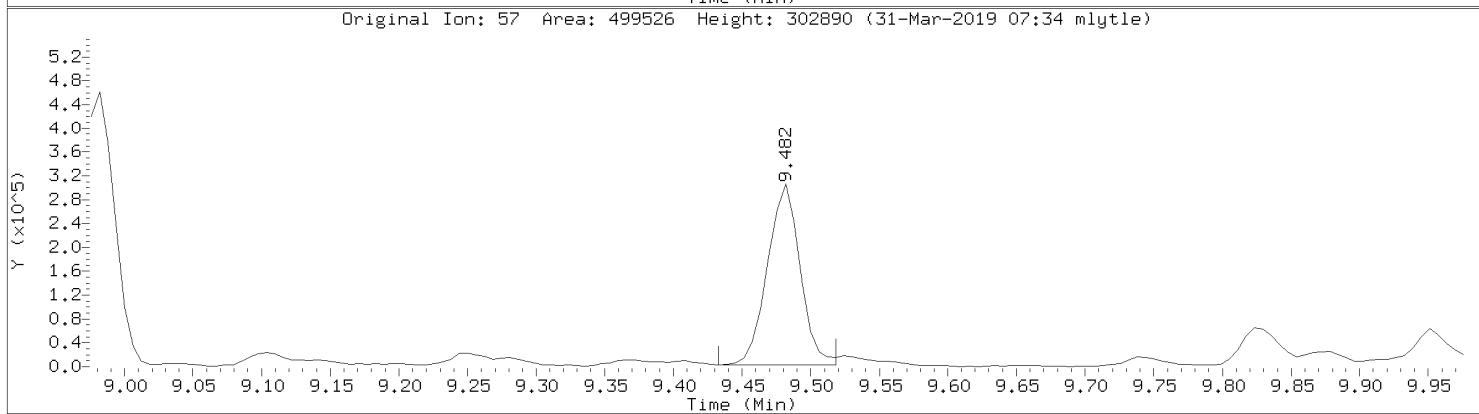
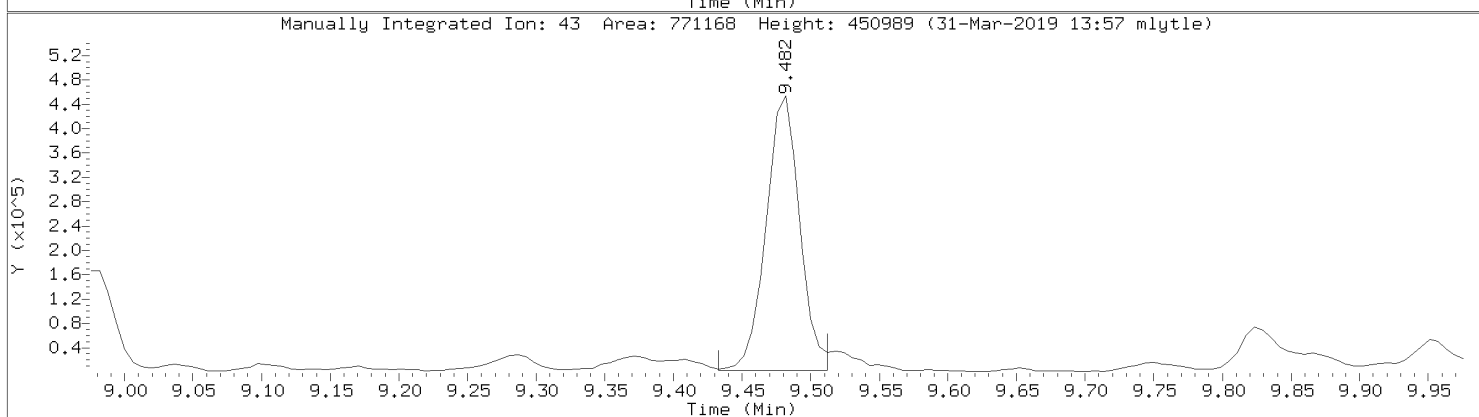
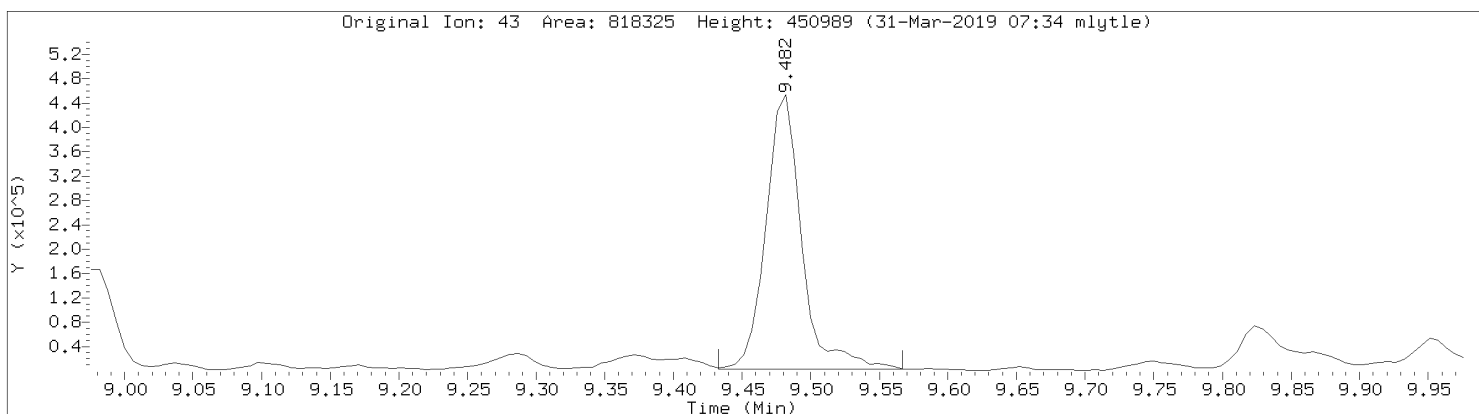


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08916.D
Injection Date: 30-MAR-2019 13:53
Instrument: 10airI.i
Lab Sample ID: 10468767003

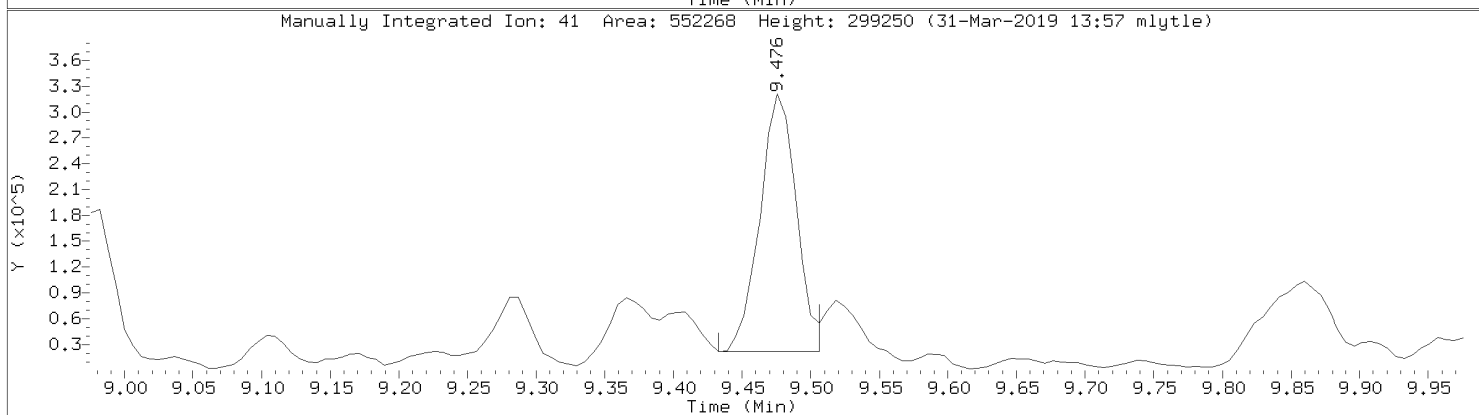
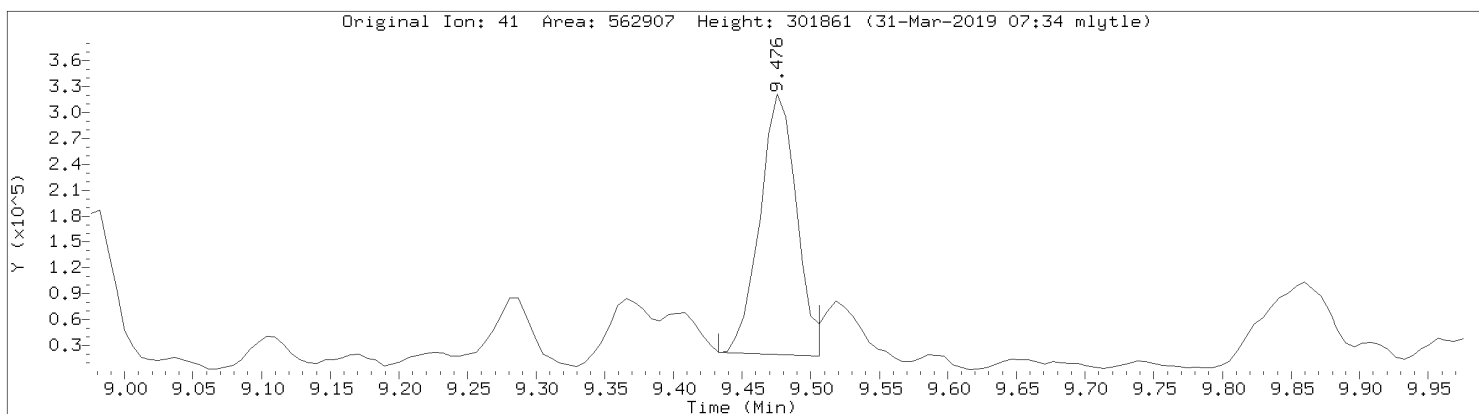


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08916.D
Injection Date: 30-MAR-2019 13:53
Instrument: 10airI.i
Lab Sample ID: 10468767003

Compound: n-Nonane
CAS Number: 111-84-2



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08916.D
Injection Date: 30-MAR-2019 13:53
Instrument: 10airI.i
Lab Sample ID: 10468767003



Data File: \\192.168.10.12\chem\10airH.i\033119.b\09028.D
 Report Date: 01-Apr-2019 10:20

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airH.i\033119.b\09028.D
 Lab Smp Id: 10468767005
 Inj Date : 31-MAR-2019 18:50
 Operator : MJL Inst ID: 10airH.i
 Smp Info :
 Misc Info : 33312
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airH.i\033119.b\TO15_084-19.m
 Meth Date : 01-Apr-2019 10:18 mlytle Quant Type: ISTD
 Cal Date : 25-MAR-2019 10:53 Cal File: 08412.D
 Als bottle: 28
 Dil Factor: 89.40000
 Integrator: HP RTE Compound Sublist: 124TCB.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	89.400	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
26 Carbon Disulfide	76		3.919	3.916	(0.720)	315653	8.39924	751
37 Chloroform	83		4.672	4.671	(0.859)	228005	6.99162	625
* 45 1,4-Difluorobenzene	114		5.440	5.433	(1.000)	345381	10.0000	
57 Toluene	91		6.945	6.938	(1.277)	101602	2.11991	190
* 64 Chlorobenzene - d5	117		8.430	8.427	(1.000)	291037	10.0000	
76 1,3,5-Trimethylbenzene	105		10.691	10.687	(1.268)	19347	0.35803	32.0
79 1,2,4-Trimethylbenzene	105		11.186	11.179	(1.327)	46683	0.84668	75.7

Data File: \\192.168.10.12\chem\10airH.i\033119.b\09028.D
Report Date: 01-Apr-2019 10:20

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airH.i
Lab File ID: 09028.D
Lab Smp Id: 10468767005
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airH.i\033119.b\TO15_084-19.m
Misc Info: 33312

Calibration Date: 31-MAR-2019
Calibration Time: 07:42

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	451734	271040	632428	345381	-23.54
64 Chlorobenzene - d	397119	238271	555967	291037	-26.71

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.43	5.10	5.76	5.44	0.12
64 Chlorobenzene - d	8.43	8.10	8.76	8.43	0.04

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

Data File: \\192.168.10.12\chem\10airH.i\033119.b\09028.D

Date : 31-MAR-2019 18:50

Client ID:

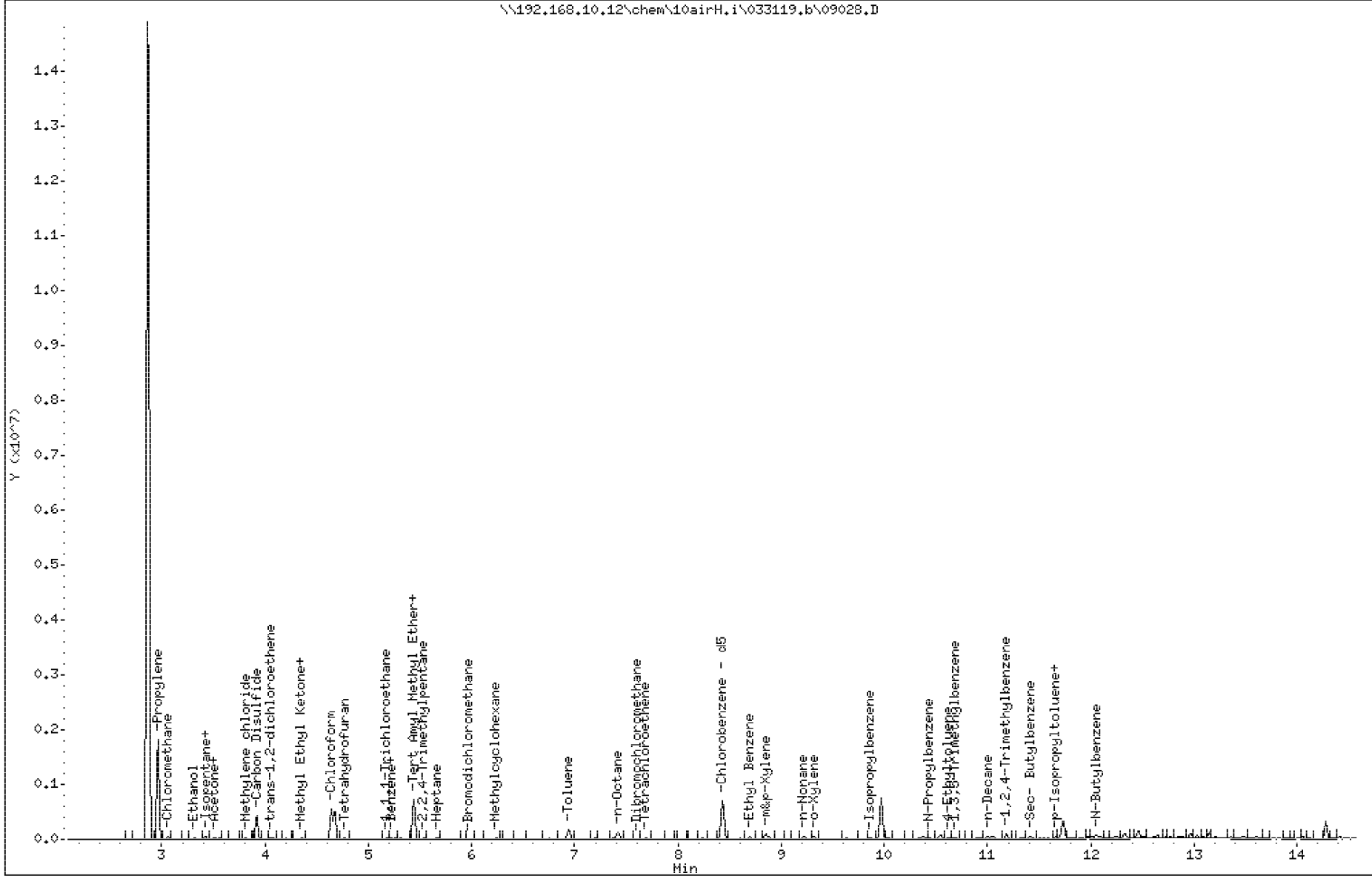
Sample Info:

Column phase: ZB-5MSplus SN338857

Instrument: 10airH.i

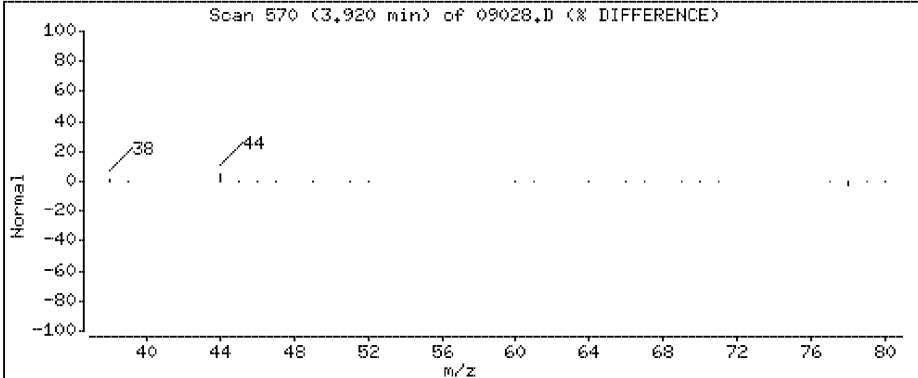
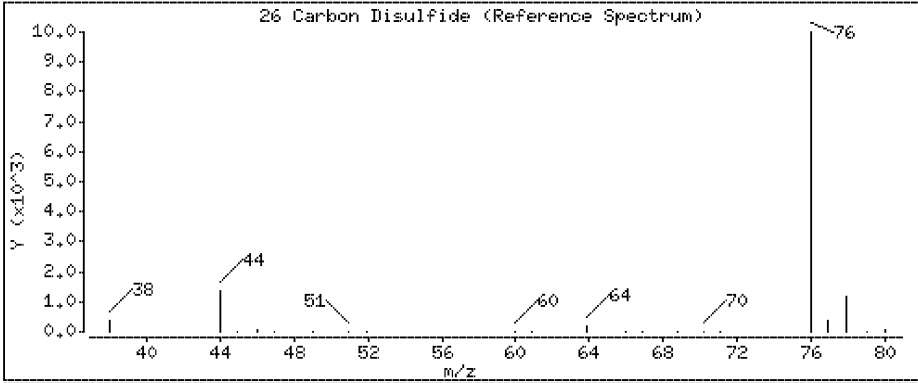
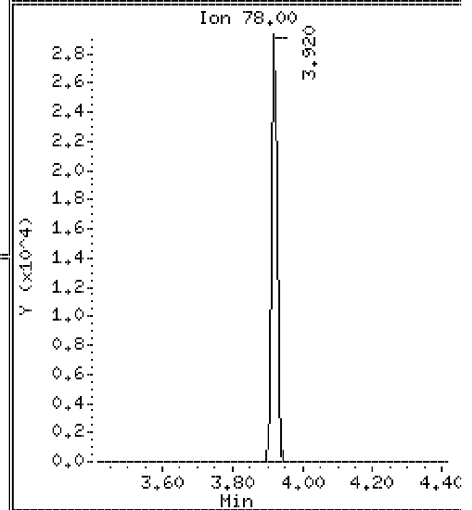
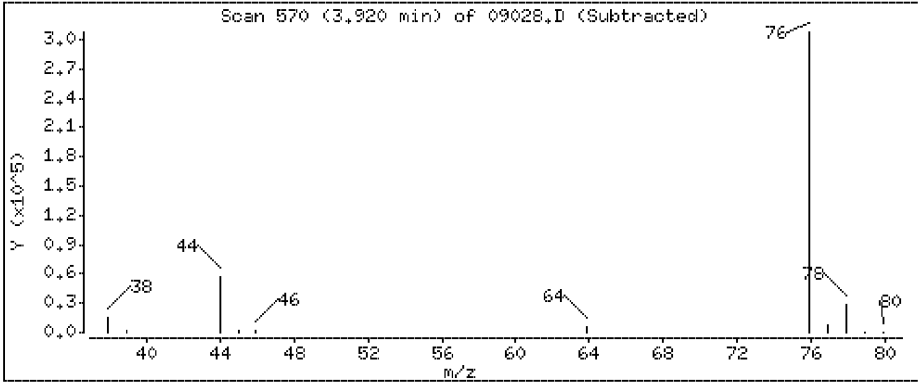
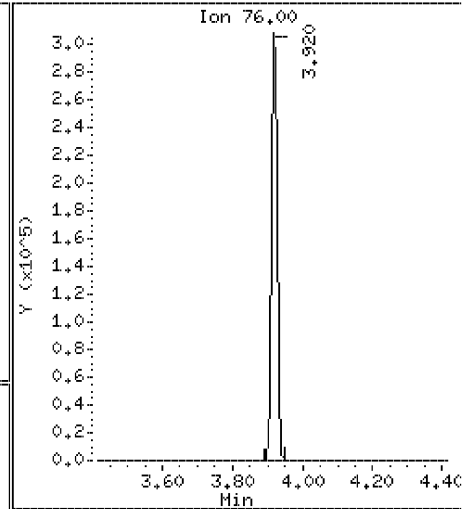
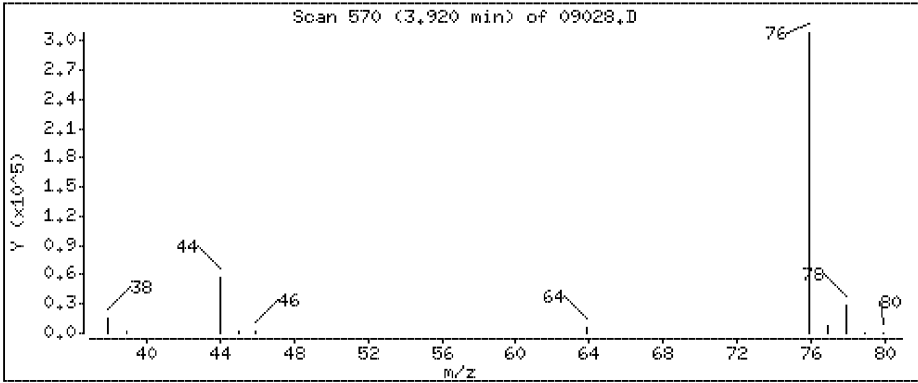
Operator: MJL

Column diameter: 0.32



26 Carbon Disulfide

Concentration: 751 ppbv



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09028.D

Date : 31-MAR-2019 18:50

Client ID:

Instrument: 10airH.i

Sample Info:

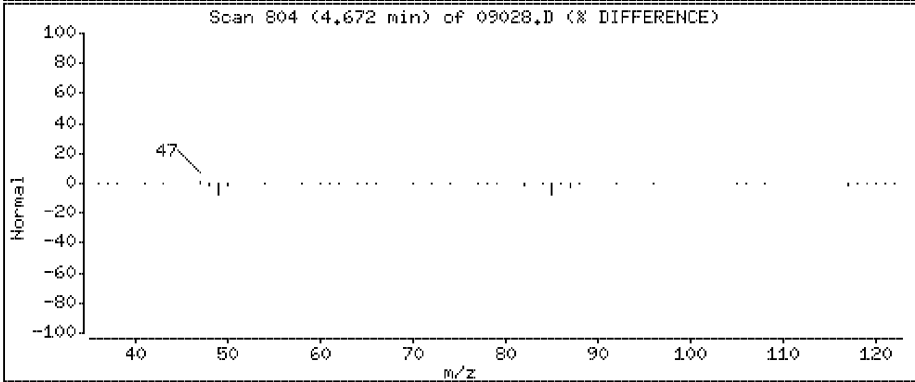
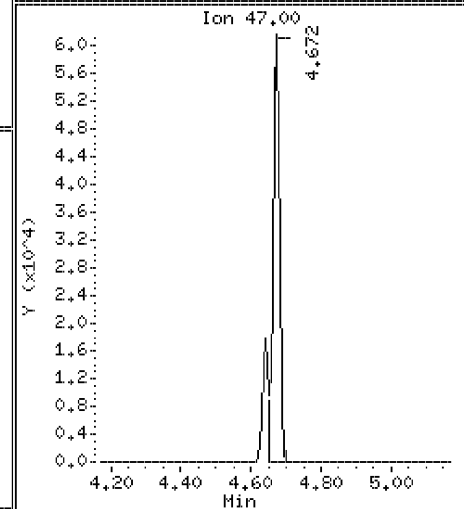
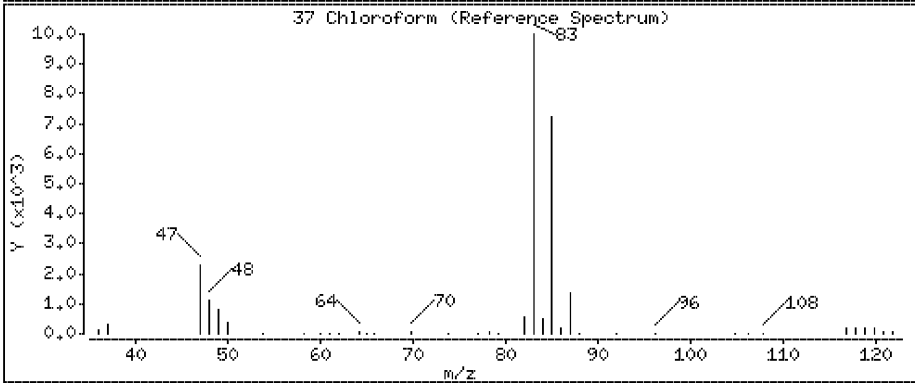
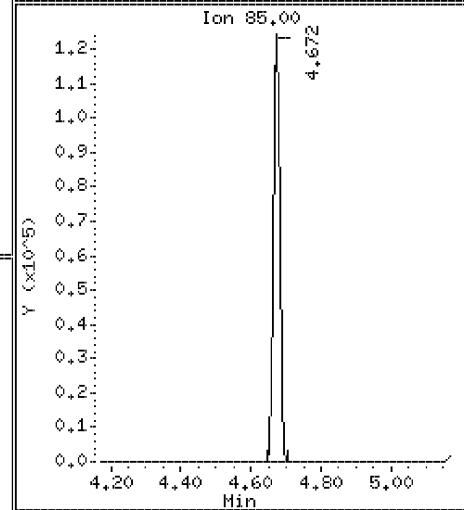
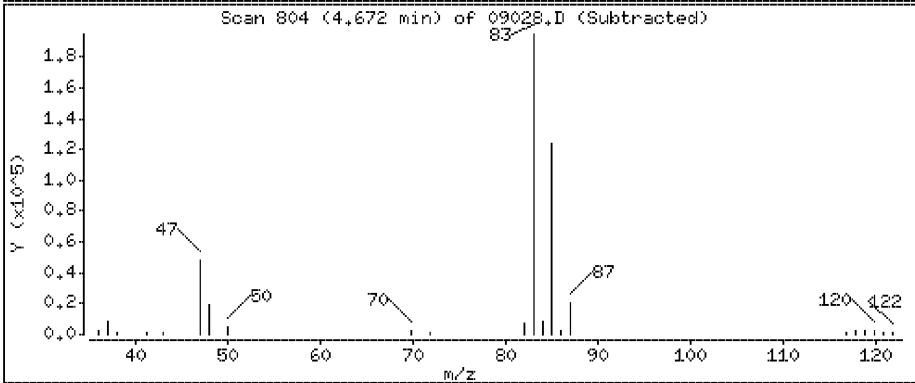
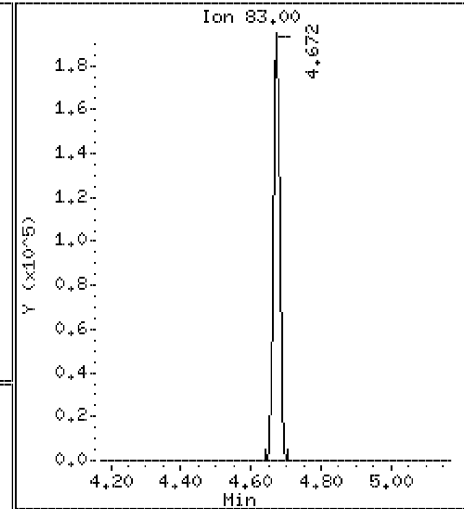
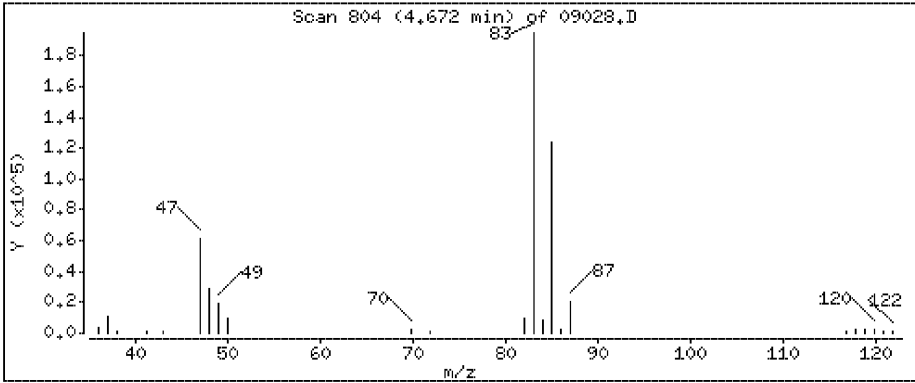
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0.32

37 Chloroform

Concentration: 625 ppbv



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09028.D

Date : 31-MAR-2019 18:50

Client ID:

Instrument: 10airH.i

Sample Info:

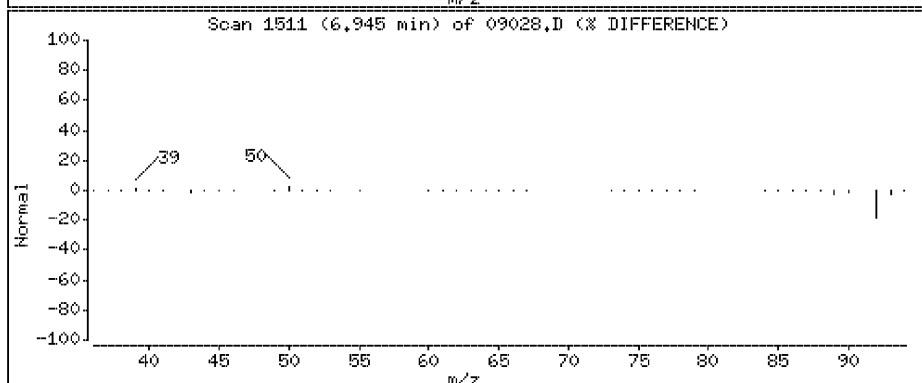
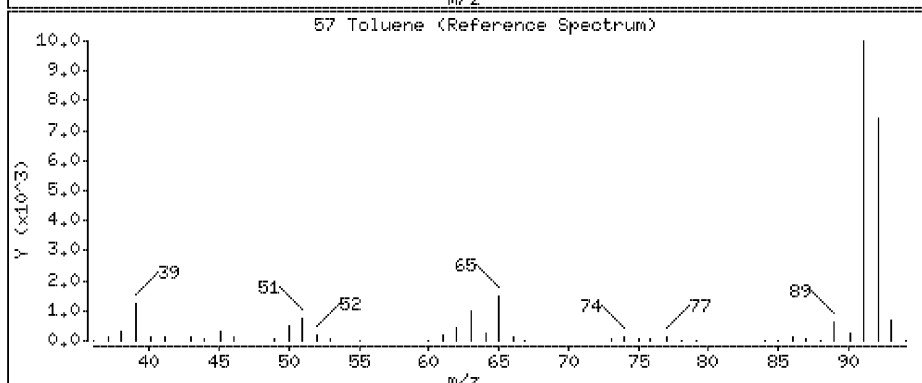
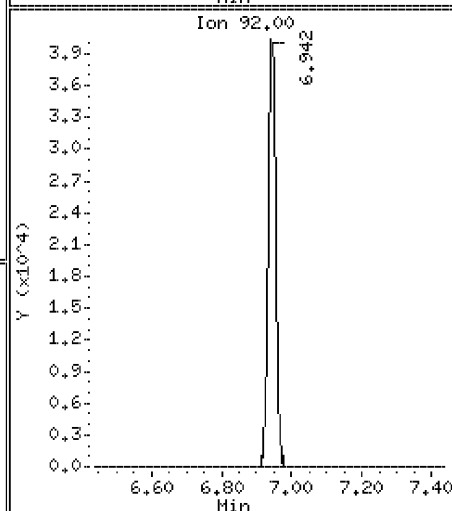
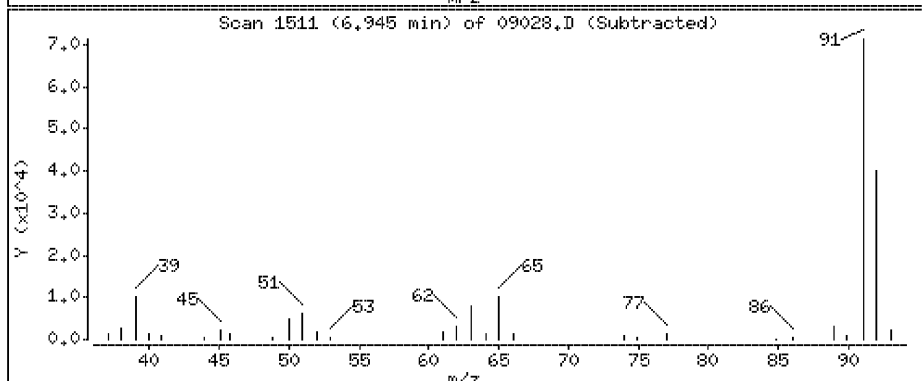
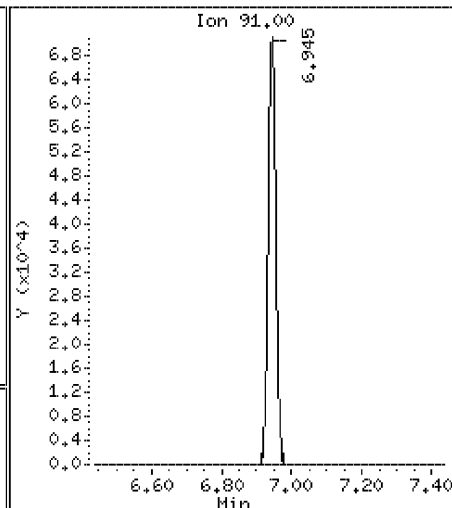
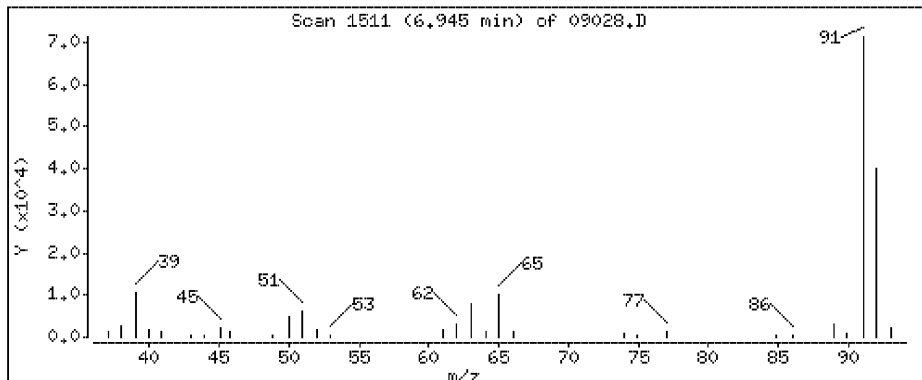
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0.32

57 Toluene

Concentration: 190 ppbv



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09028.D

Date : 31-MAR-2019 18:50

Client ID:

Instrument: 10airH.i

Sample Info:

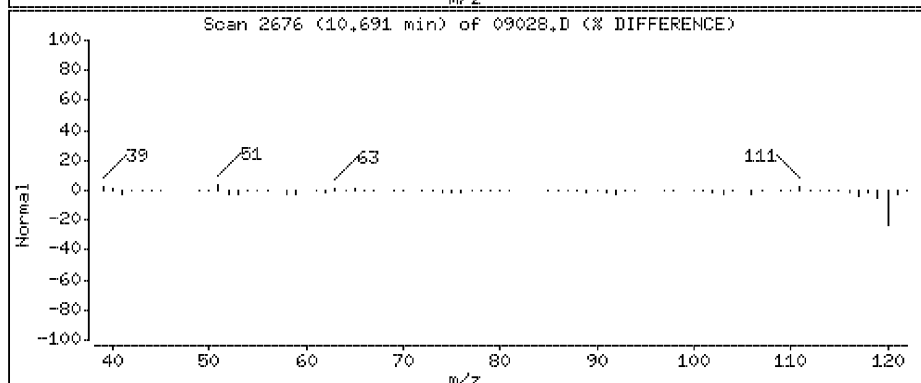
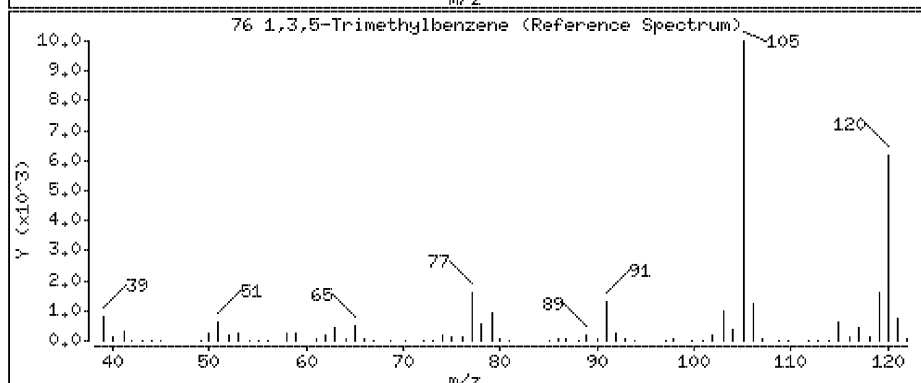
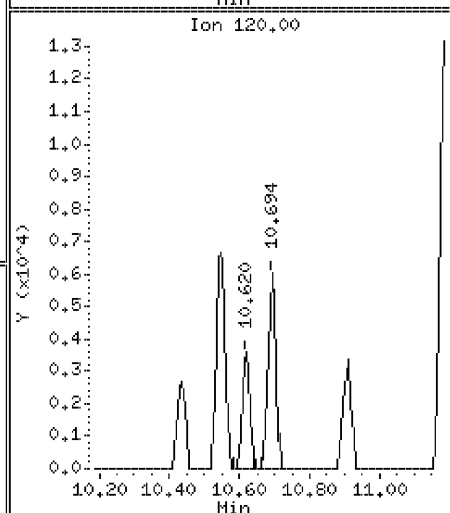
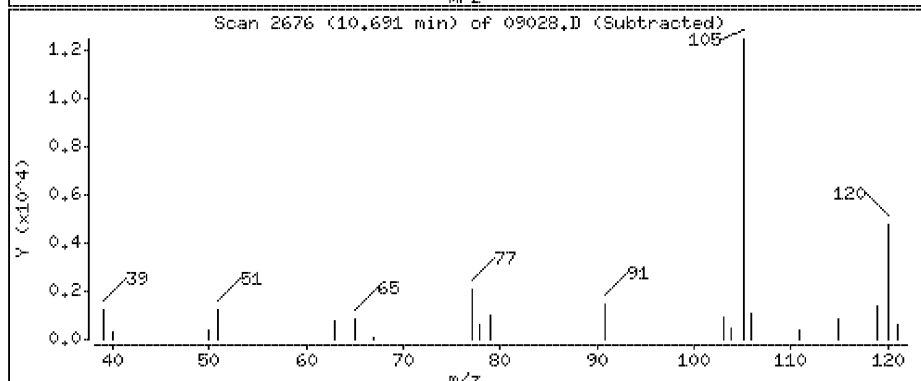
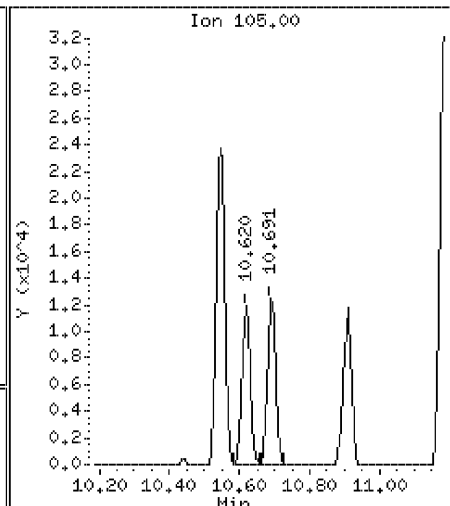
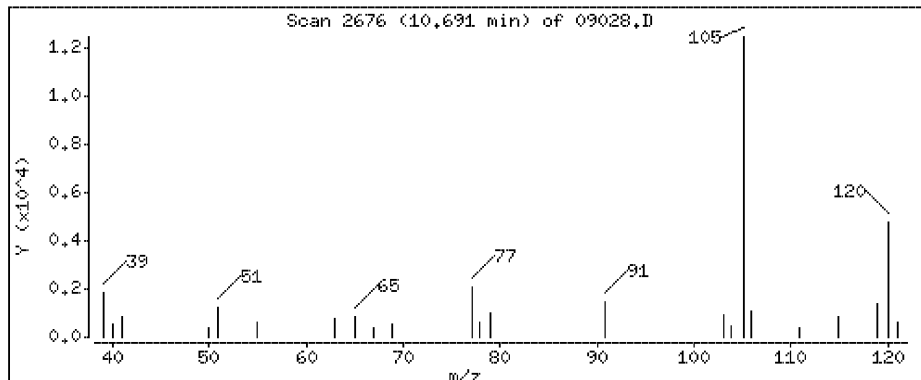
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0.32

76 1,3,5-Trimethylbenzene

Concentration: 32.0 ppbv



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09028.D

Date : 31-MAR-2019 18:50

Client ID:

Instrument: 10airH.i

Sample Info:

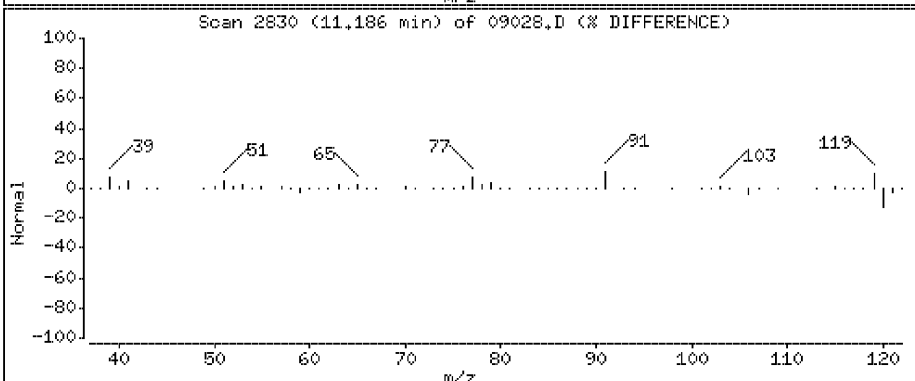
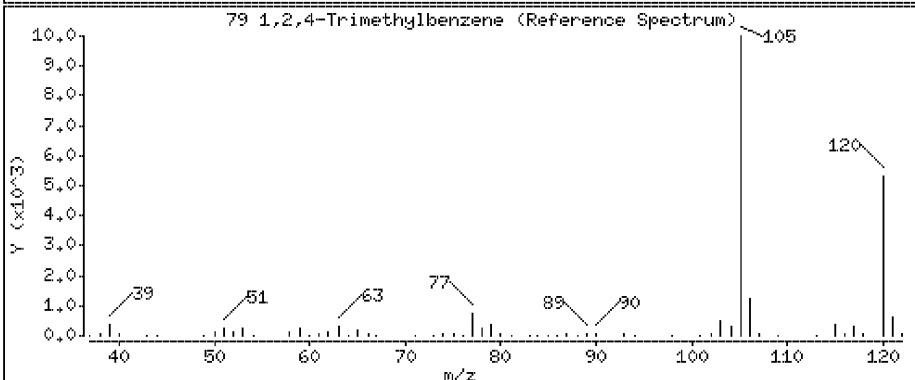
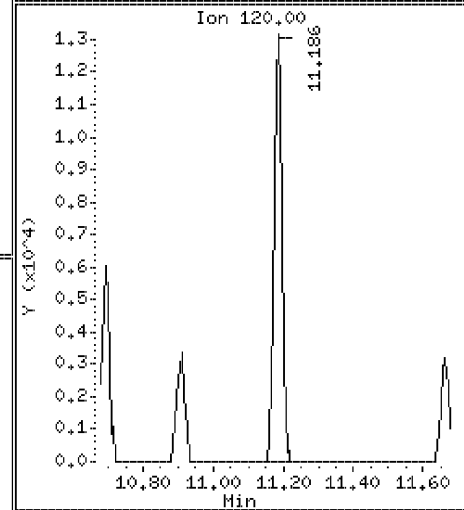
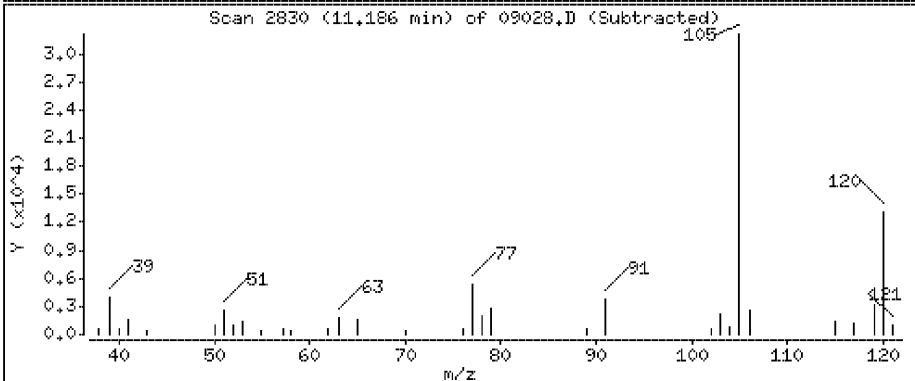
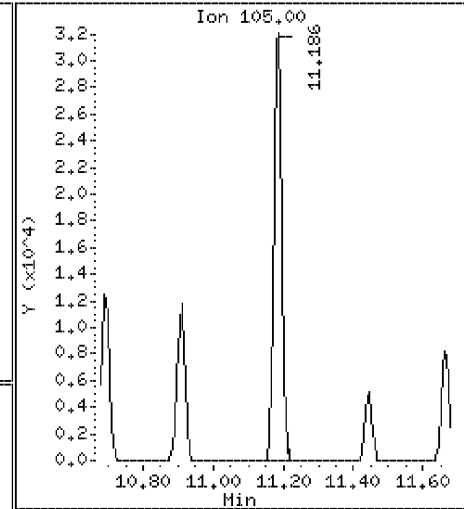
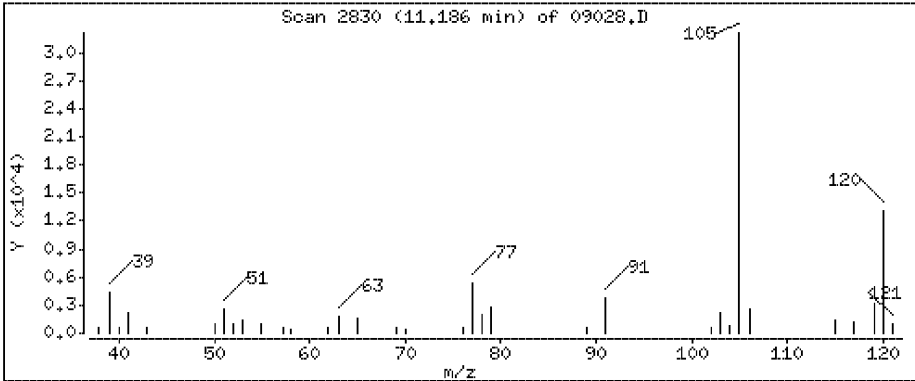
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0.32

79 1,2,4-Trimethylbenzene

Concentration: 75.7 ppbv



Data File: \\192.168.10.12\chem\10airH.i\033119.b\09028.D
Injection Date: 31-MAR-2019 18:50
Instrument: 10airH.i
Lab Sample ID: 10468767005
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\033019.b\08917.D
 Lab Smp Id: 10468767005
 Inj Date : 30-MAR-2019 14:22
 Operator : MJL Inst ID: 10airI.i
 Smp Info :
 Misc Info : 33312
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Meth Date : 31-Mar-2019 13:48 mlytle Quant Type: ISTD
 Cal Date : 30-MAR-2019 10:33 Cal File: 08909.D
 Als bottle: 17
 Dil Factor: 1.49000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.490	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS			
							ON-COLUMN (ppbv)	FINAL (ppbv)		
1 1,1-Difluoroethane	65		3.019	3.013	(0.536)	28688	1.19742	1.78 (Q)		
2 Chlorodifluoromethane	67		Compound Not Detected.							(D)
3 Propylene	41		3.044	3.044	(0.541)	99328	2.32456	3.46		
4 Dichlorodifluoromethane	85		3.068	3.068	(0.545)	23049	0.21553	0.321		
5 Dichlorotetrafluoroethane	85		Compound Not Detected.							(D)
6 Chloromethane	50		3.153	3.147	(0.560)	353290	7.65659	11.4		
7 Vinyl chloride	62		3.226	3.220	(0.573)	11190	0.37459	0.558		
8 1,3-Butadiene	54		Compound Not Detected.							(D)
9 Bromomethane	94		3.391	3.391	(0.603)	2055	0.08166	0.122		
10 Chloroethane	64		3.434	3.434	(0.610)	4534	0.33285	0.496 (H)		
11 Ethanol	45		3.440	3.440	(0.611)	538465	31.2952	46.6		
12 Vinyl Bromide	106		Compound Not Detected.							(D)
13 Isopentane	43		3.562	3.556	(0.633)	788831	18.8125	28.0		
14 Freon 123	83		Compound Not Detected.							(D)
15 Acrolein	56		Compound Not Detected.							(D)
16 Trichlorofluoromethane	101		3.641	3.635	(0.647)	11240	0.12323	0.184		
17 Acetone	43		3.653	3.653	(0.649)	1445720	14.8887	22.2		
18 Isopropyl Alcohol	45		3.659	3.659	(0.650)	100163	1.43465	2.14 (Q)		
19 Tert Butyl Alcohol (TBA)	59		Compound Not Detected.							(D)
20 Acrylonitrile	53		Compound Not Detected.							(D)
21 1,1-Dichloroethene	61		Compound Not Detected.							(D)
22 Methyl Acetate	43		Compound Not Detected.							(D)
23 Freon 113	101		3.903	3.903	(0.693)	2782	0.03733	0.0556 (a)		

Compounds	QUANT MASS	SIG						CONCENTRATIONS		
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)		
24 Methylene chloride	49		3.958	3.959	(0.703)	358562	5.79635	8.64		
25 Allyl Chloride	76		Compound Not Detected.							
26 Carbon Disulfide	76		4.080	4.080	(0.725)	7825122	77.4338	115 (A)		
27 trans-1,2-dichloroethene	96		4.232	4.226	(0.752)	234814	6.32012	9.42 (Q)		
28 Methyl Tert-Butyl Ether	73		Compound Not Detected.							(D)
29 Vinyl Acetate	43		Compound Not Detected.							(D)
30 1,1-Dichloroethane	63		4.366	4.366	(0.776)	48798	0.66259	0.987		
31 Methyl Ethyl Ketone	72		4.513	4.513	(0.802)	28957	1.28958	1.92 (Q)		
32 n-Hexane	57		4.555	4.549	(0.809)	461587	6.50310	9.69 (Q)		
33 Di-isopropyl Ether	45		Compound Not Detected.							(D)
34 Ethyl Acetate	43		4.690	4.690	(0.833)	10092	0.07918	0.118		
35 cis-1,2-Dichloroethene	96		4.696	4.690	(0.834)	4929	0.12306	0.183 (Q)		
36 Ethyl Tert-Butyl Ether	59		Compound Not Detected.							(D)
38 Tetrahydrofuran	42		4.964	4.964	(0.882)	429275	7.64146	11.4 (Q)		
39 1,1,1-Trichloroethane	97		5.220	5.214	(0.927)	80283	0.88649	1.32		
40 1,2-Dichloroethane	62		5.232	5.232	(0.930)	21042	0.28789	0.429		
41 Benzene	78		5.464	5.458	(0.971)	773877	6.75713	10.1		
42 Carbon tetrachloride	117		5.482	5.476	(0.974)	41577	0.48458	0.722		
43 Cyclohexane	56		5.488	5.482	(0.975)	490517	6.92085	10.3 (Q)		
44 Tert Amyl Methyl Ether	73		Compound Not Detected.							(D)
* 45 1,4-Difluorobenzene	114		5.628	5.628	(1.000)	892429	10.0000			
46 2,2,4-Trimethylpentane	57		5.775	5.769	(1.026)	884934	4.12202	6.14 (Q)		
47 Heptane	43		5.909	5.909	(1.050)	495571	4.92935	7.34		
48 1,2-Dichloropropane	63		Compound Not Detected.							(D)
49 Trichloroethene	130		6.013	6.006	(1.068)	8269	0.17435	0.260 (QM)		
50 Methyl methacrylate	69		Compound Not Detected.							(D)
51 1,4-Dioxane	88		Compound Not Detected.							(D)
52 Bromodichloromethane	83		6.116	6.110	(1.087)	364979	4.11760	6.14		
53 Methylcyclohexane	98		6.458	6.458	(1.147)	201949	6.82147	10.2 (Q)		
54 Methyl Isobutyl Ketone	43		6.573	6.579	(1.168)	56196	0.44285	0.660		
55 cis-1,3-Dichloropropene	75		Compound Not Detected.							
56 trans-1,3-Dichloropropene	75		Compound Not Detected.							
57 Toluene	91		7.201	7.195	(1.279)	5704702	43.2243	64.4 (A)		
58 1,1,2-Trichloroethane	97		Compound Not Detected.							(D)
59 Methyl Butyl Ketone	43		Compound Not Detected.							(D)
60 n-Octane	43		7.634	7.634	(0.879)	645575	4.96647	7.40 (Q)		
61 Dibromochloromethane	129		7.738	7.744	(0.891)	113794	1.75448	2.61		
62 1,2-Dibromoethane	107		Compound Not Detected.							(D)
63 Tetrachloroethene	166		8.037	8.036	(0.925)	336456	6.01916	8.97		
* 64 Chlorobenzene - d5	117		8.689	8.683	(1.000)	778641	10.0000			
65 Chlorobenzene	112		Compound Not Detected.							(D)
66 Ethyl Benzene	91		8.969	8.963	(1.032)	1572005	9.36434	14.0		
67 m&p-Xylene	91		9.109	9.103	(1.048)	4131100	32.3253	48.2		
68 n-Nonane	43		9.481	9.475	(1.091)	1145489	8.83321	13.2 (M)		
69 Bromoform	173		9.506	9.506	(1.094)	89937	1.90628	2.84 (Q)		
70 Styrene	104		9.524	9.524	(1.096)	17895	0.20019	0.298 (Q)		
71 o-Xylene	91		9.591	9.591	(1.104)	1857416	14.1779	21.1		
72 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.							(D)
73 Isopropylbenzene	105		10.146	10.146	(1.168)	411577	2.32424	3.46		
74 N-Propylbenzene	91		10.695	10.688	(1.231)	1525668	7.02181	10.5		
75 4-Ethyltoluene	105		10.853	10.853	(1.249)	1362709	8.39614	12.5		
76 1,3,5-Trimethylbenzene	105		10.938	10.938	(1.259)	1290056	9.20819	13.7		
77 n-Decane	57		11.280	11.274	(2.004)	2327539	21.7499	32.4 (Q)		
78 Tert-Butyl Benzene	119		Compound Not Detected.							(D)

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS			
							ON-COLUMN (ppbv)	FINAL (ppbv)		
79 1,2,4-Trimethylbenzene	105		11.408	11.408	(1.313)	2972349	21.4000	31.9		
80 Sec- Butylbenzene	105		11.676	11.676	(1.344)	504753	2.56273	3.82		
81 1,3-Dichlorobenzene	146		Compound Not Detected.							(D)
82 Benzyl Chloride	91		Compound Not Detected.							(D)
83 1,4-Dichlorobenzene	146		11.761	11.767	(1.354)	30172	0.42095	0.627		
84 p-Isopropyltoluene	119		11.847	11.847	(1.363)	401045	2.58027	3.84		
85 1,2,3-Trimethylbenzene	105		11.889	11.883	(1.368)	803873	6.04258	9.00		
86 1,2-Dichlorobenzene	146		Compound Not Detected.							
87 N-Butylbenzene	91		12.280	12.273	(1.413)	654067	4.25579	6.34		
88 1,2-Dibromo-3-Chloropropane	157		Compound Not Detected.							(D)
89 1,2,4-Trichlorobenzene	180		Compound Not Detected.							(D)
90 Naphthalene	128		13.859	13.846	(1.595)	54148	0.53224	0.793 (M)		
91 Hexachlorobutadiene	225		Compound Not Detected.							

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.
- D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08917.D
Report Date: 31-Mar-2019 14:01

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airI.i
Lab File ID: 08917.D
Lab Smp Id: 10468767005
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
Misc Info: 33312

Calibration Date: 30-MAR-2019
Calibration Time: 08:43

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	1148342	689005	1607679	892429	-22.29
64 Chlorobenzene - d	994820	596892	1392748	778641	-21.73

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.63	5.30	5.96	5.63	0.00
64 Chlorobenzene - d	8.68	8.35	9.01	8.69	0.07

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

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

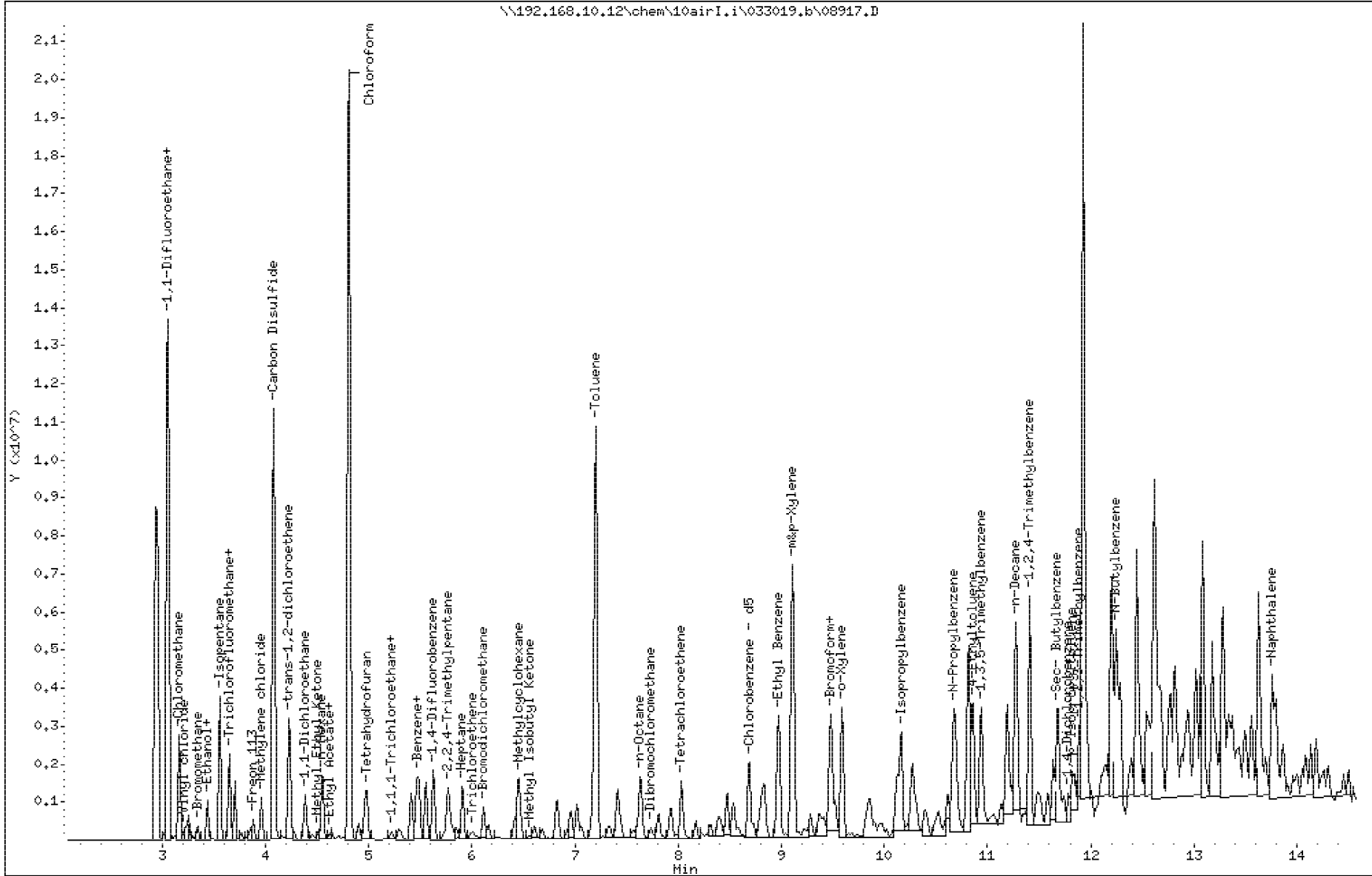
Sample Info:

Column phase: DB-5 SN:USD449717H

Instrument: 10airI.i

Operator: MJL

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

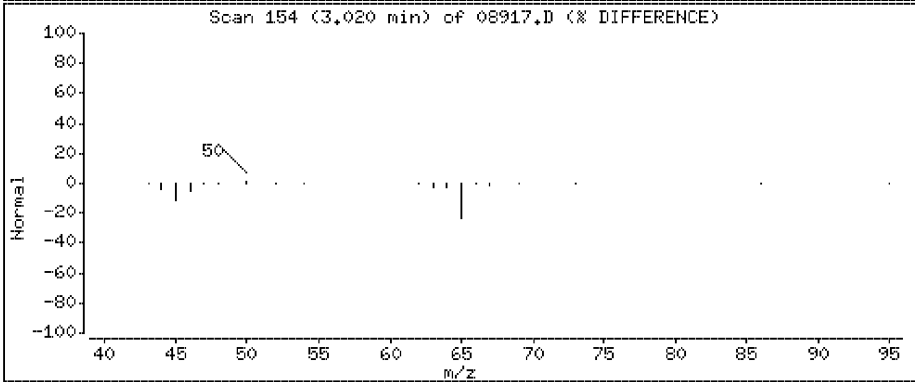
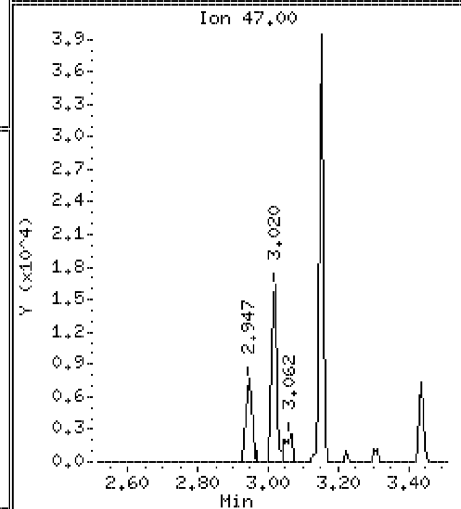
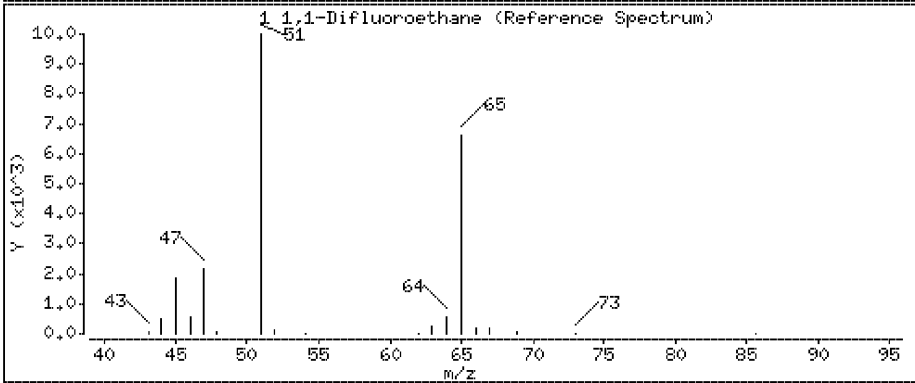
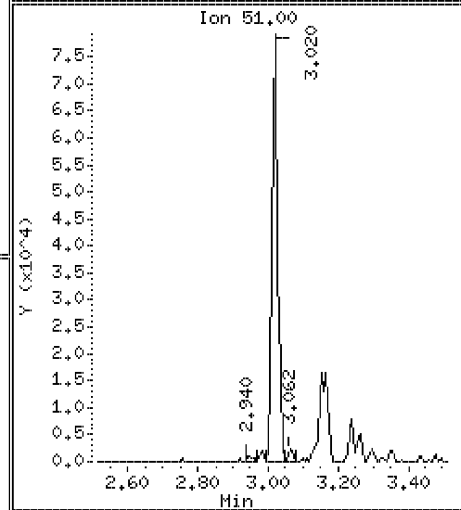
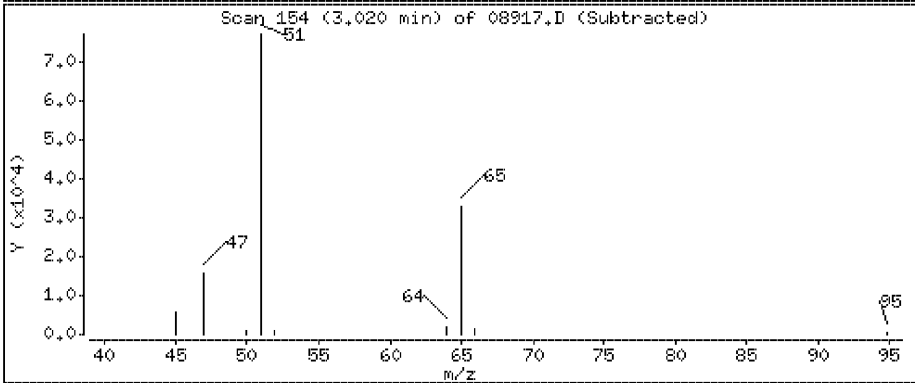
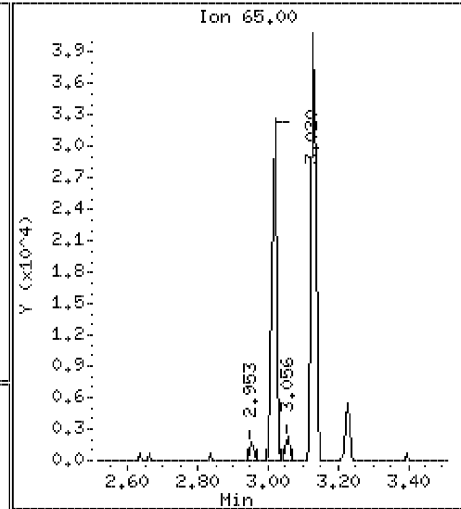
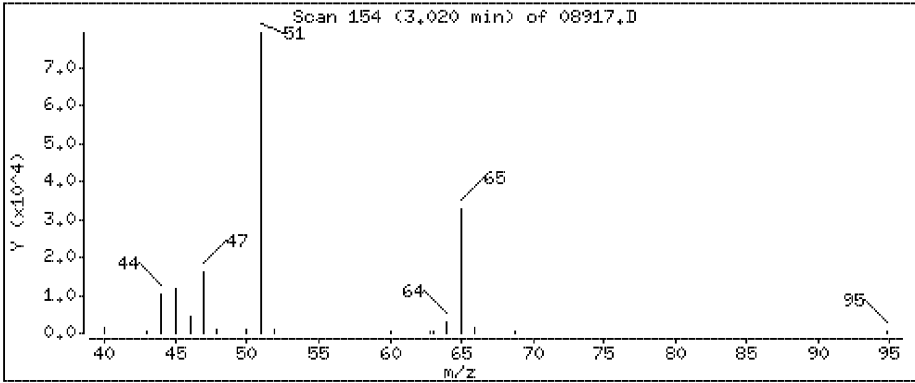
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

1,1-Difluoroethane

Concentration: 1.78 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

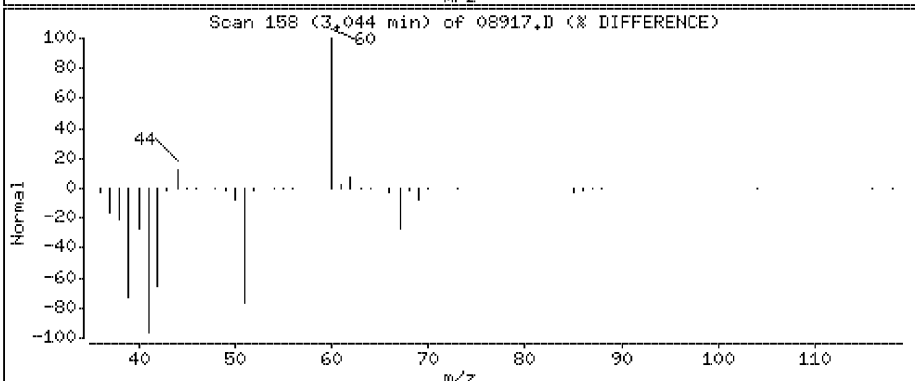
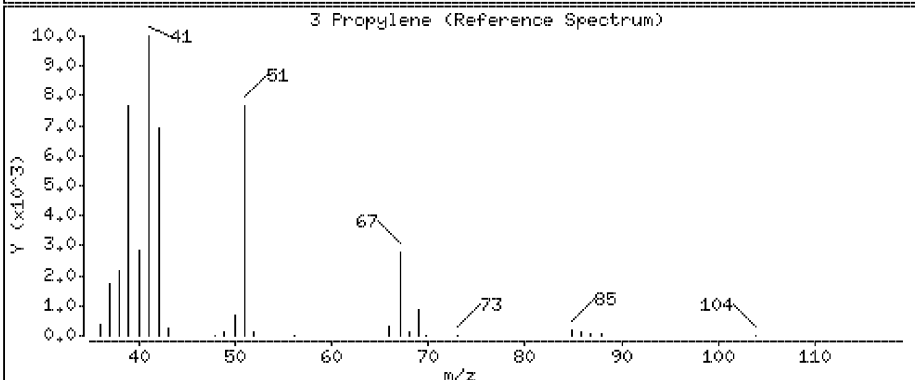
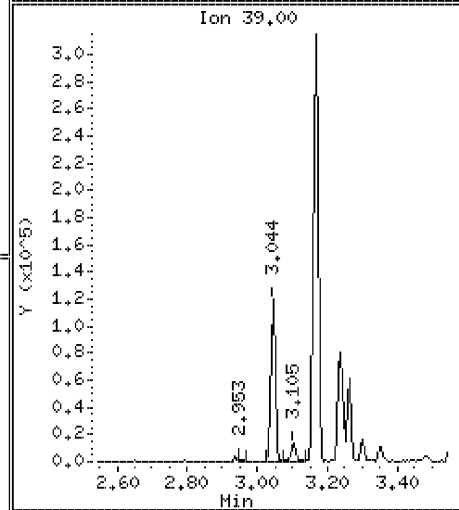
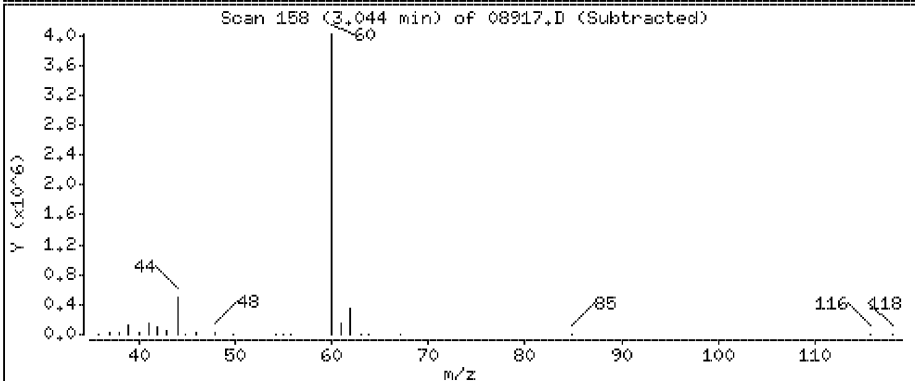
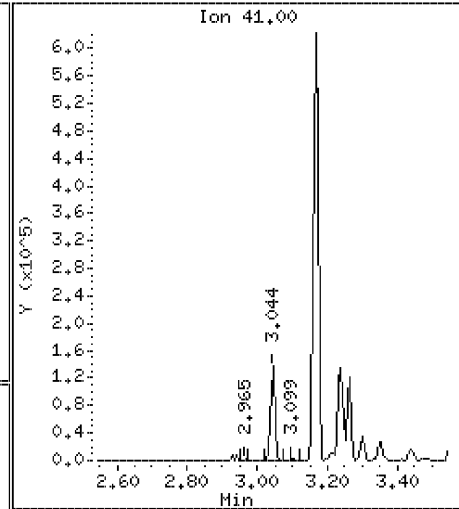
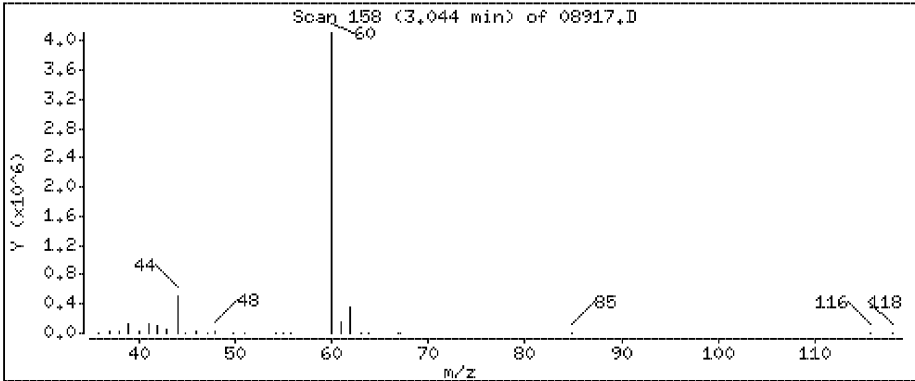
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

3 Propylene

Concentration: 3.46 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

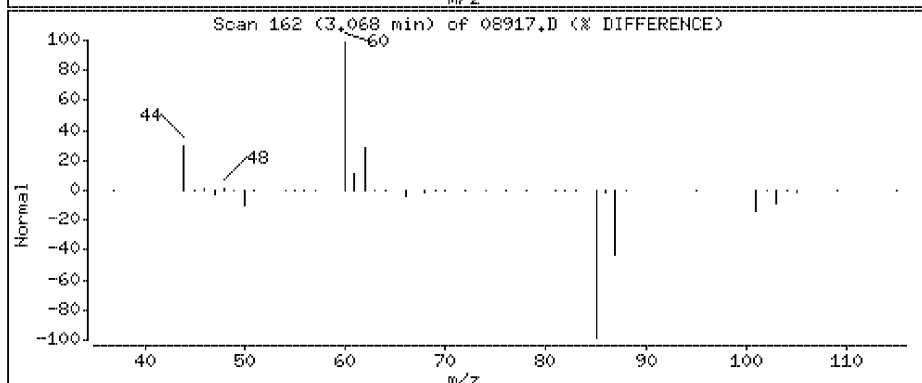
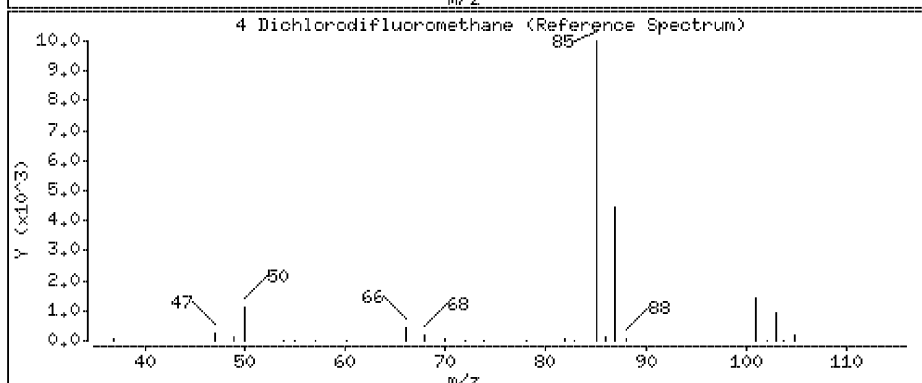
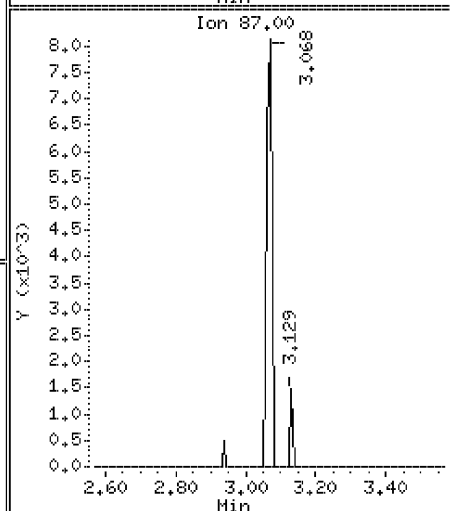
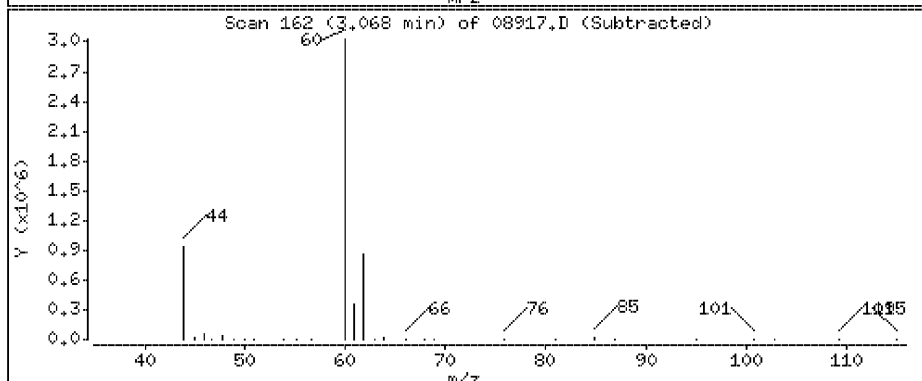
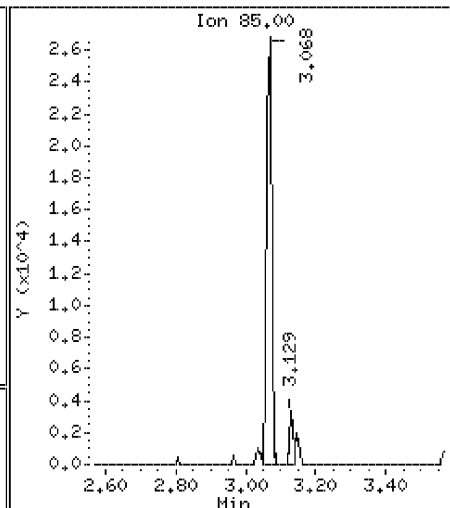
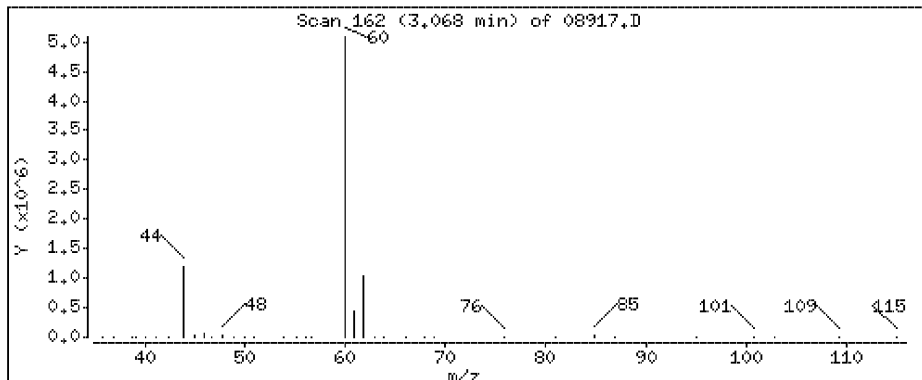
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

4 Dichlorodifluoromethane

Concentration: 0,321 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

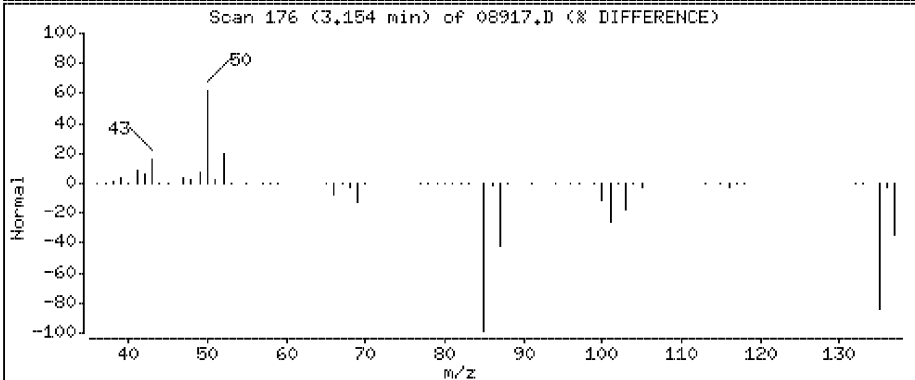
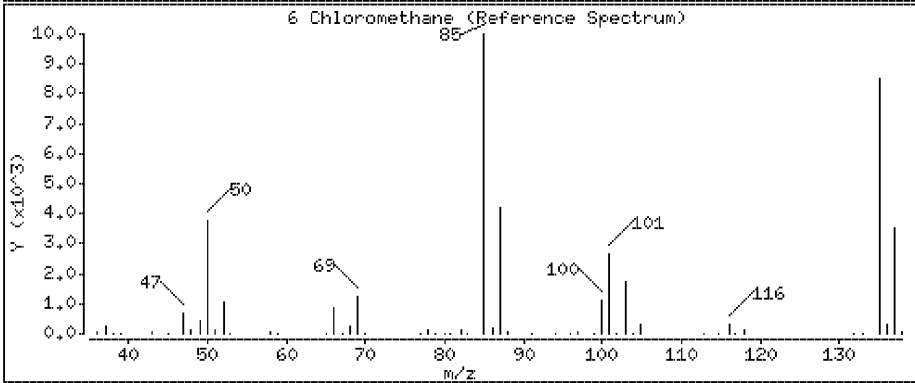
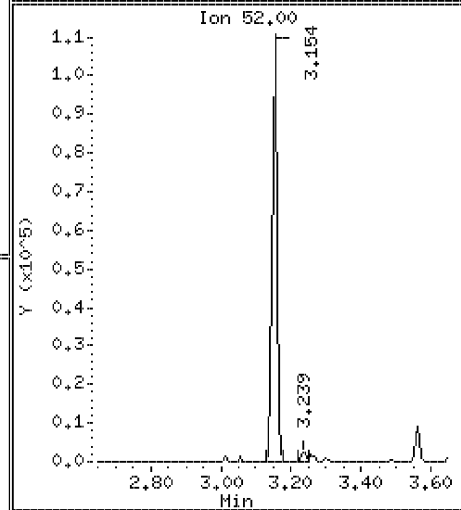
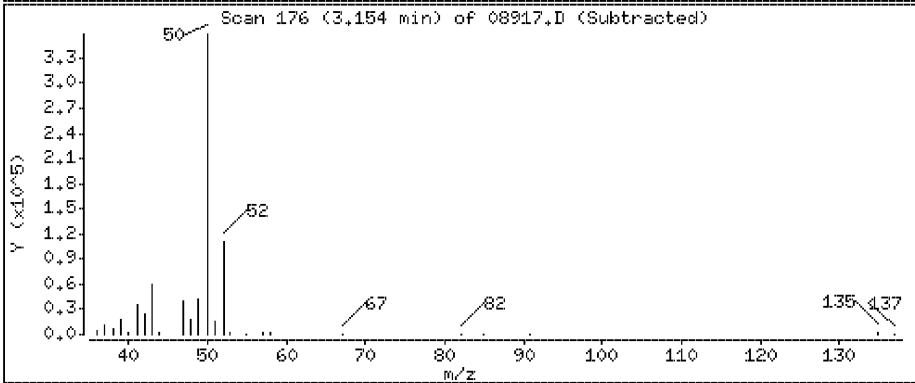
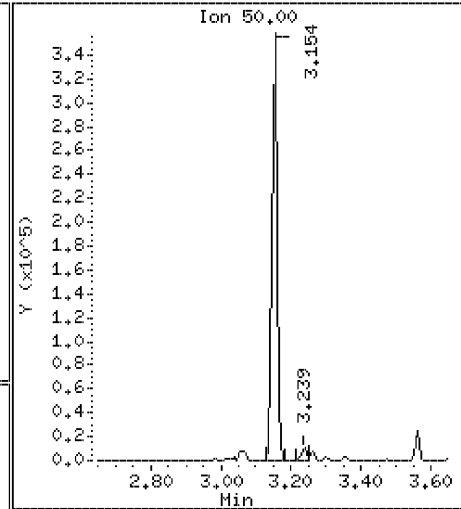
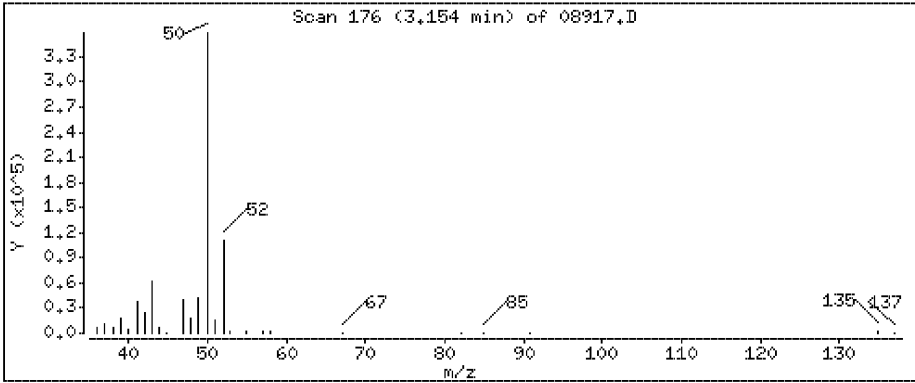
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

6 Chloromethane

Concentration: 11.4 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

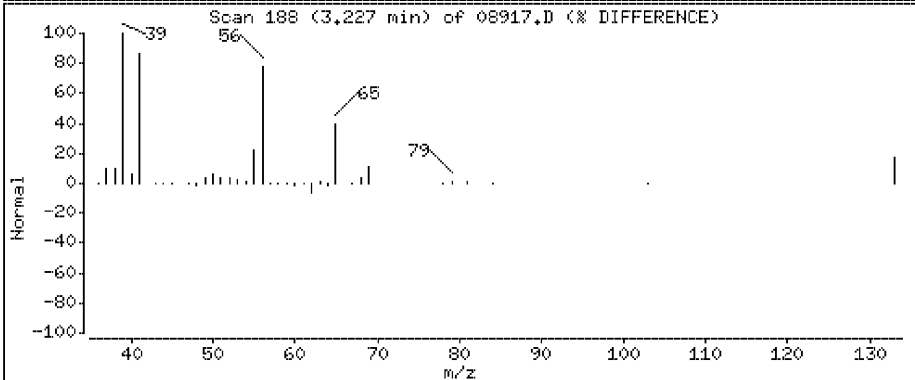
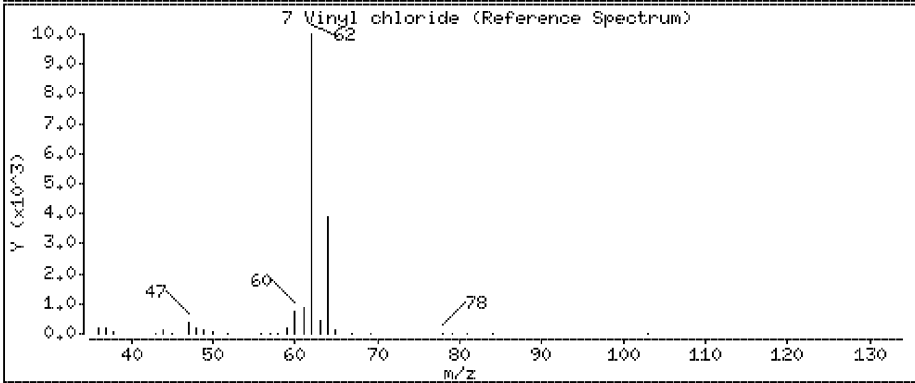
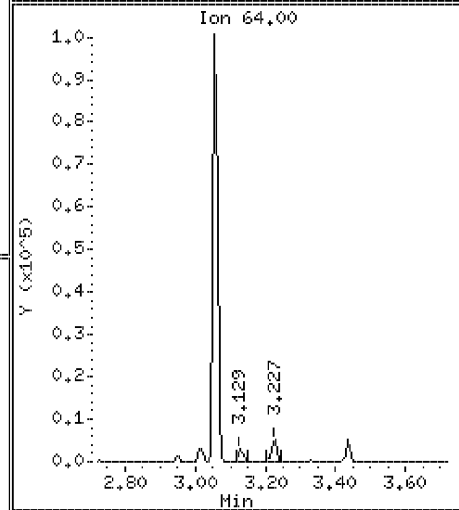
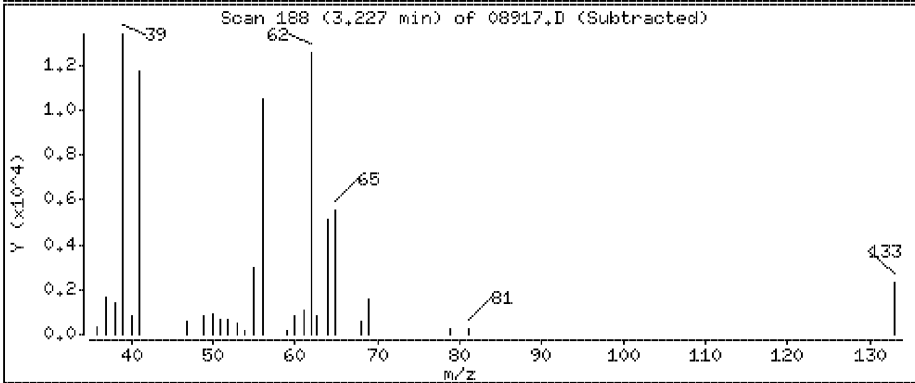
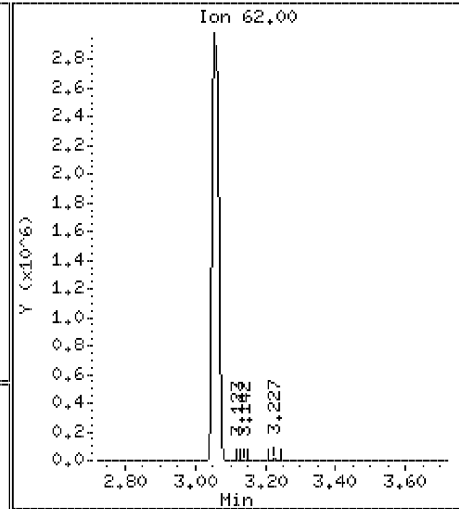
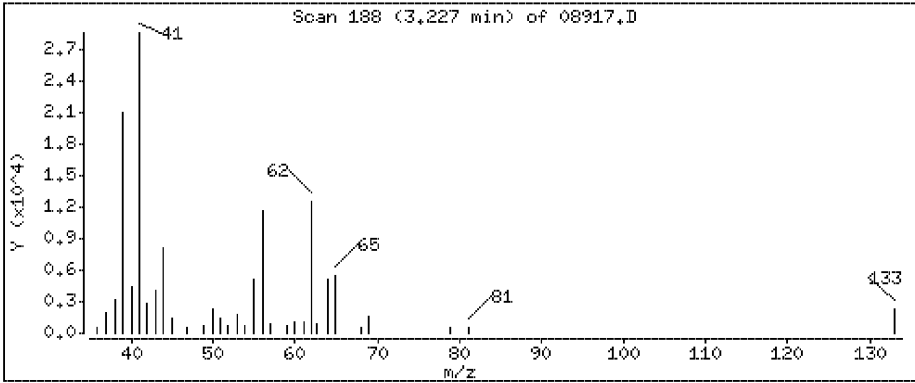
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

7 Vinyl chloride

Concentration: 0.558 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

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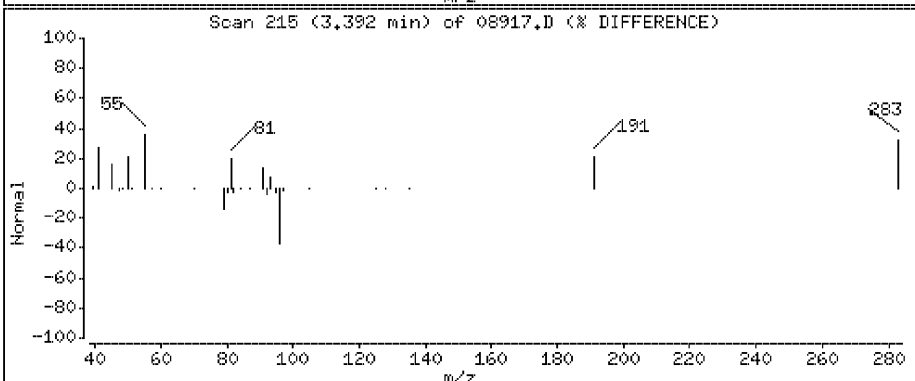
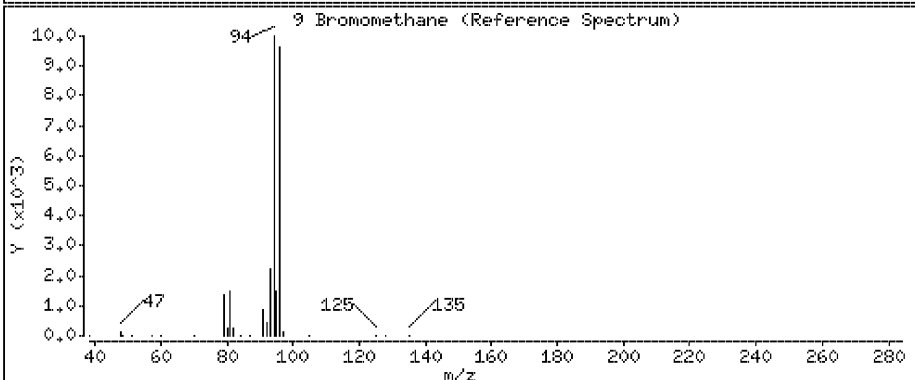
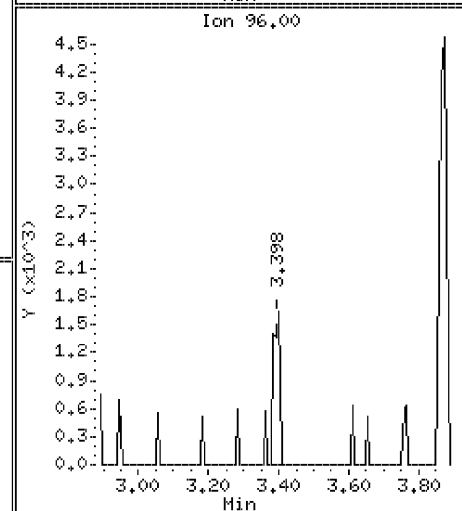
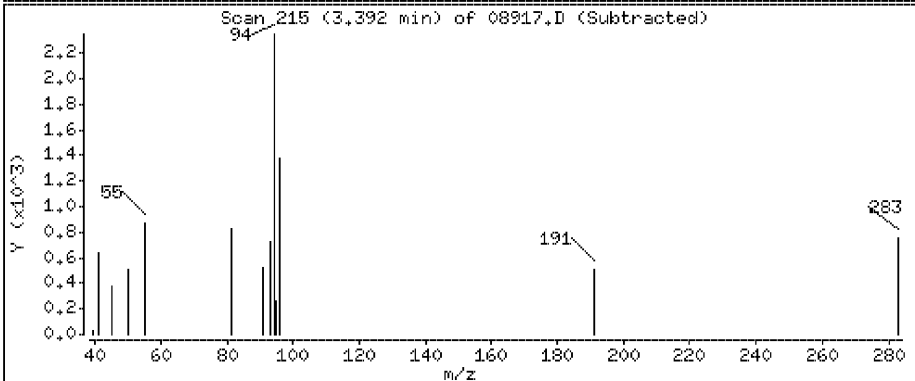
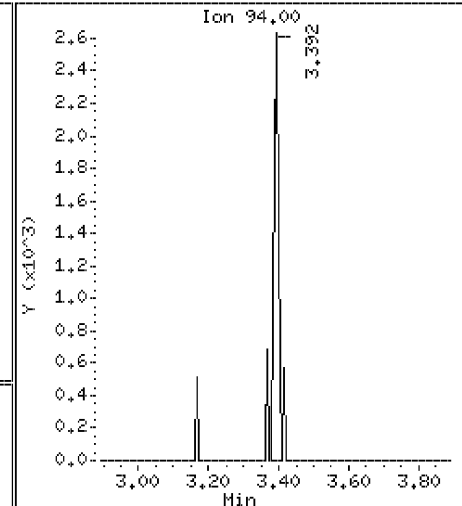
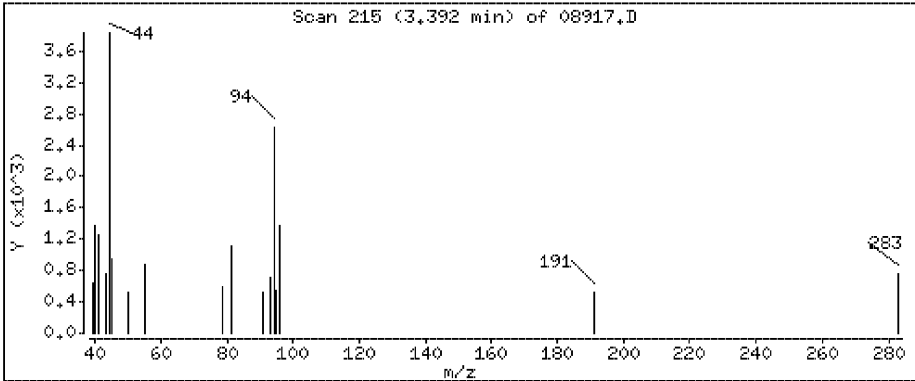
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

9 Bromomethane

Concentration: 0,122 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

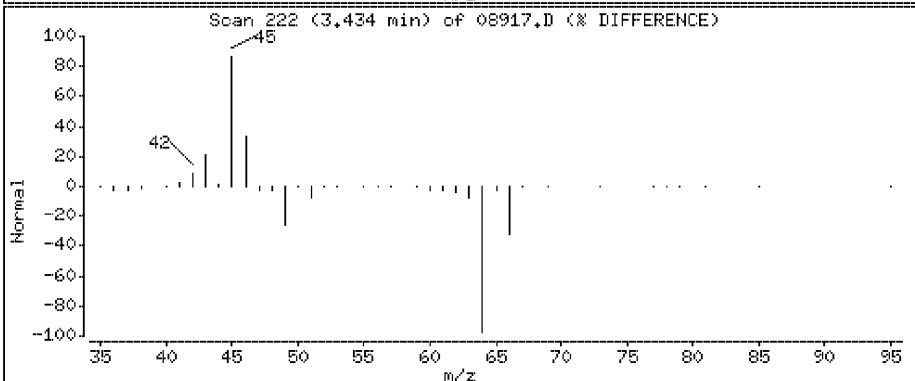
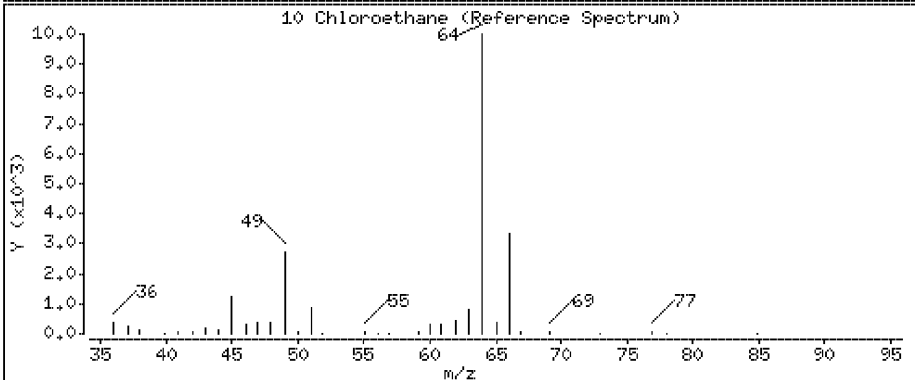
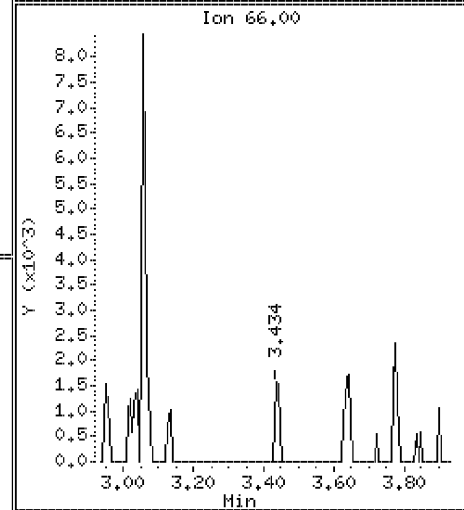
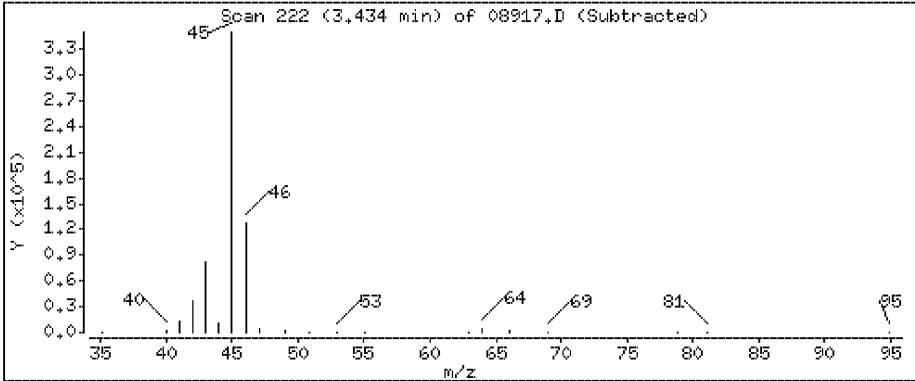
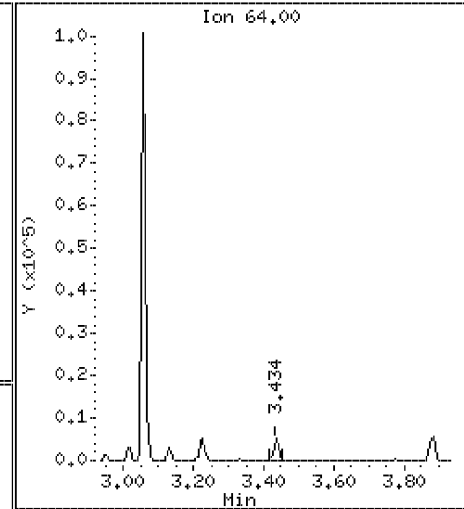
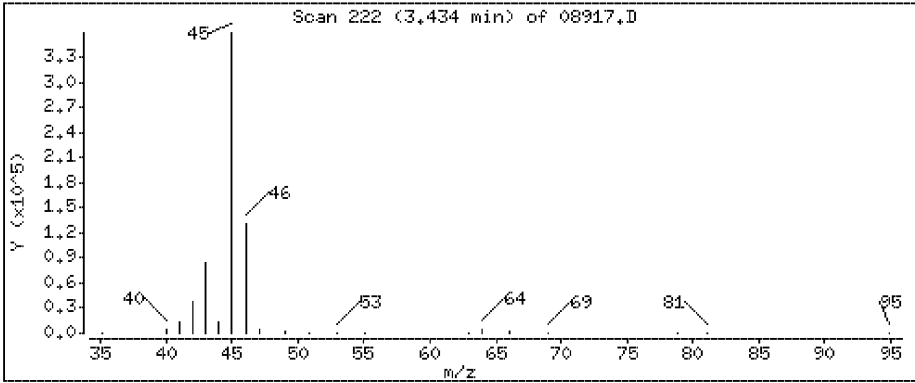
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

10 Chloroethane

Concentration: 0.496 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

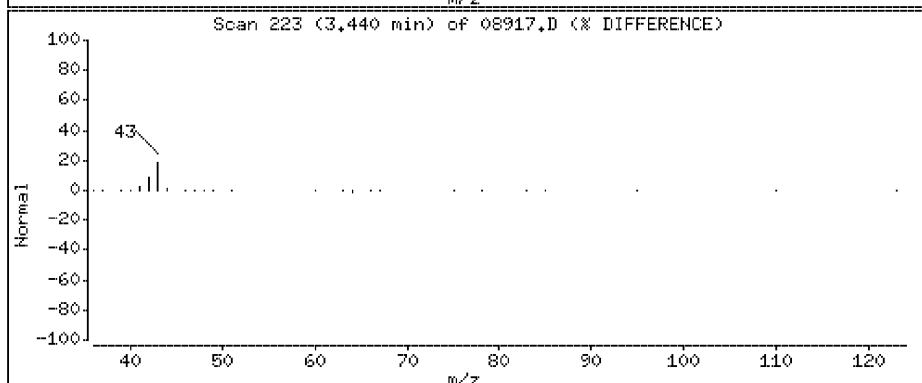
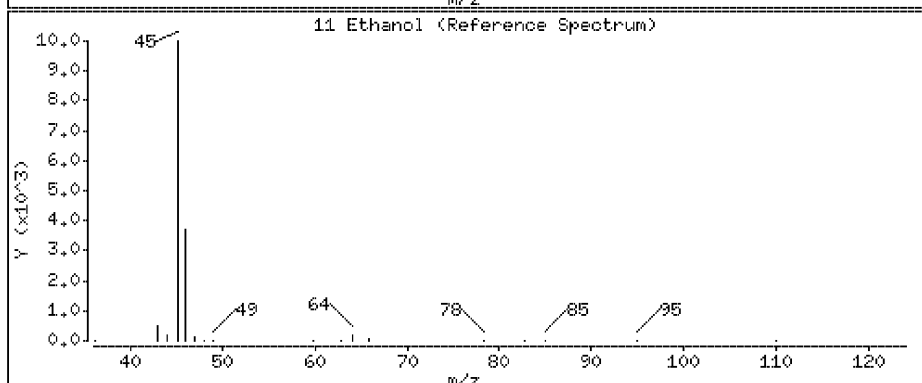
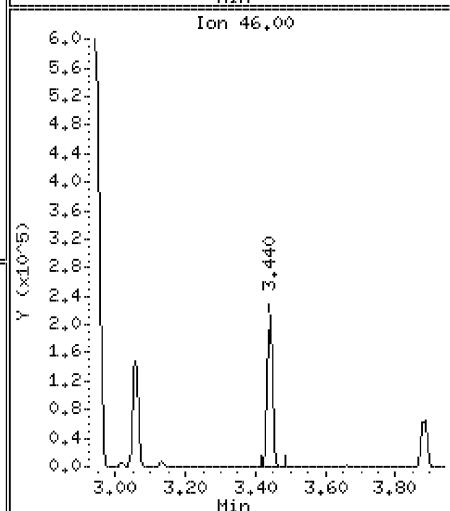
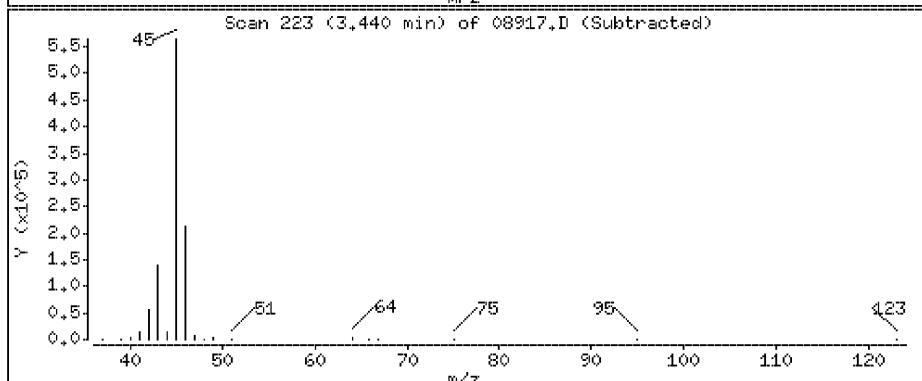
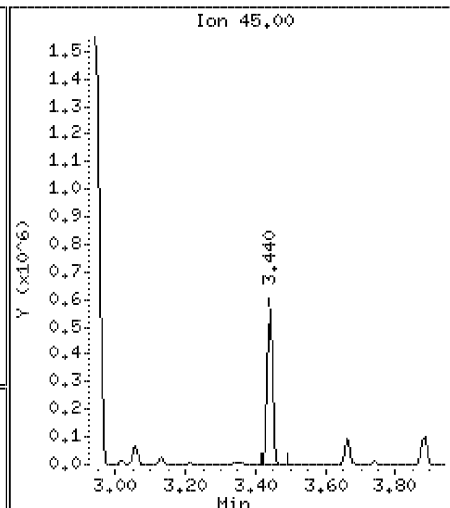
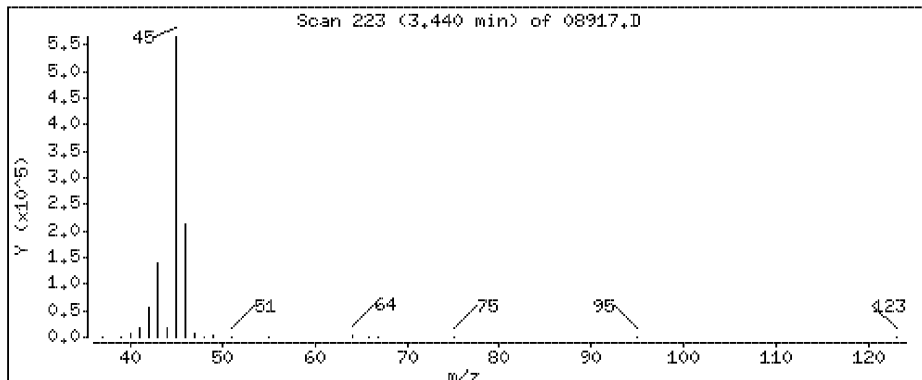
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

11 Ethanol

Concentration: 46,6 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

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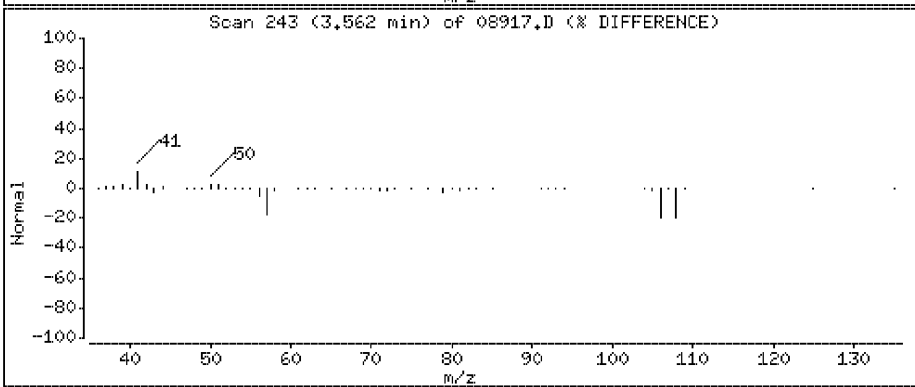
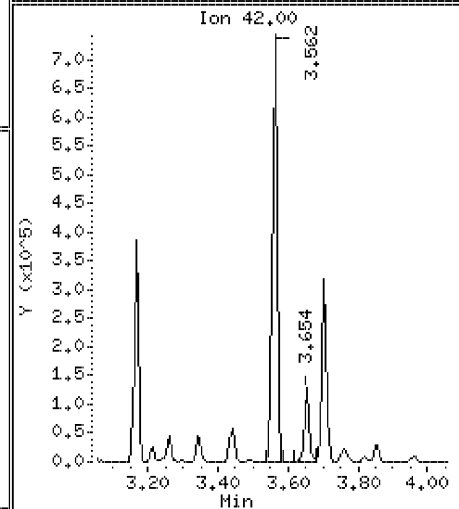
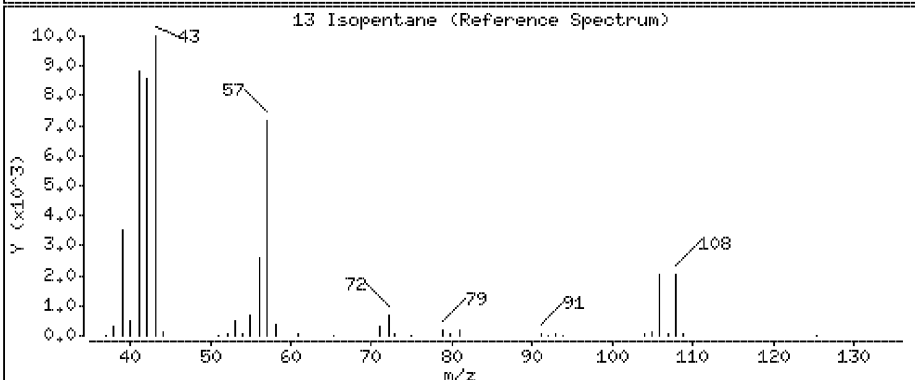
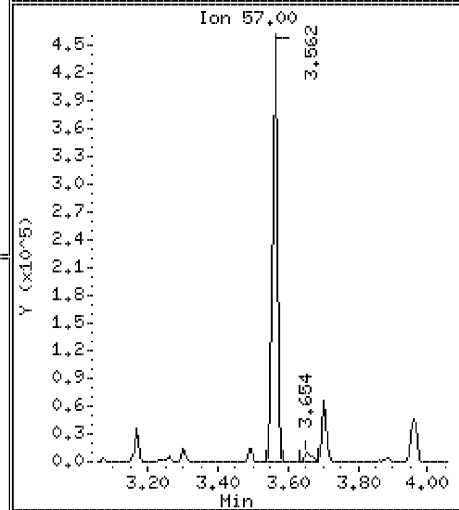
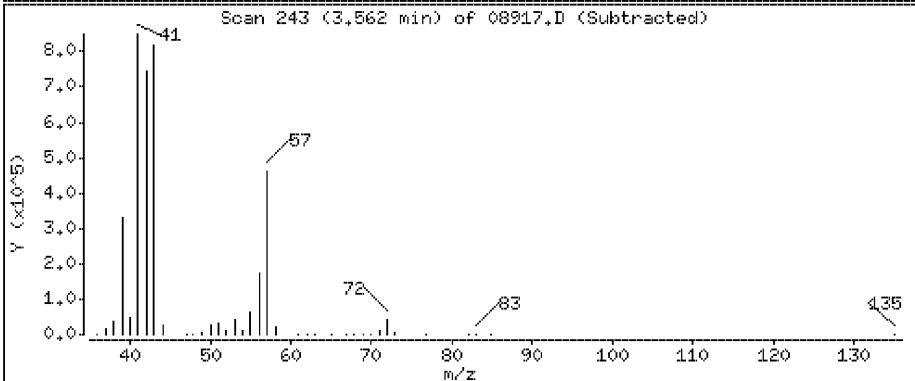
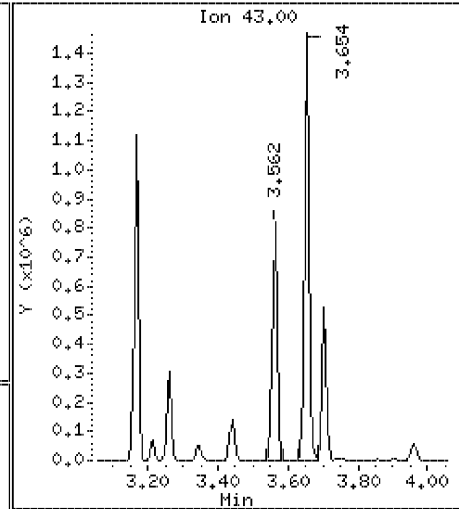
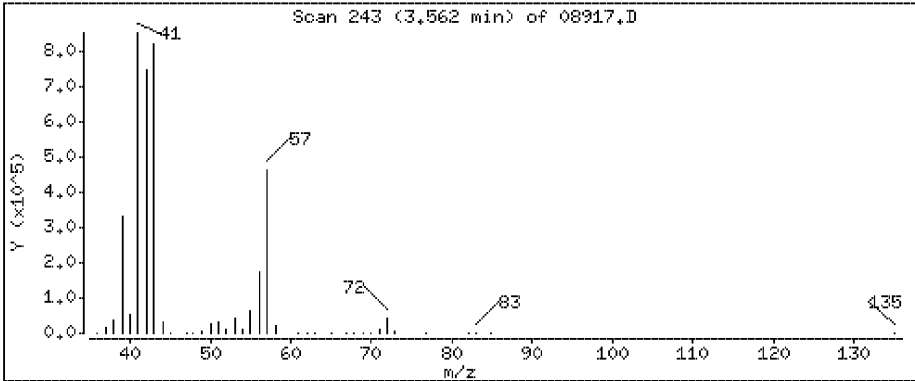
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

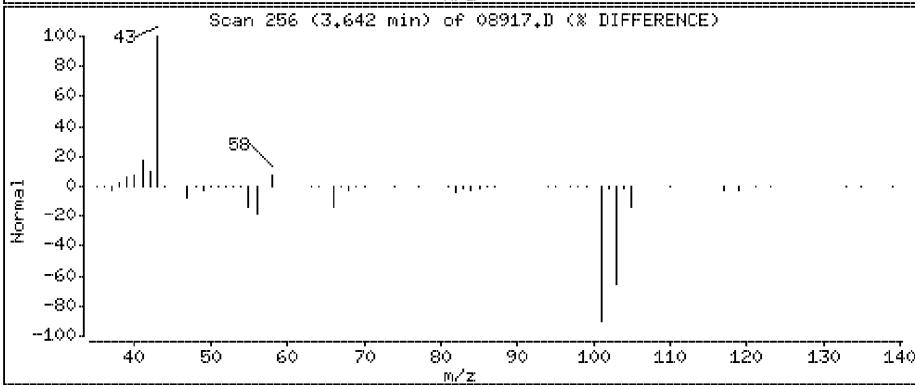
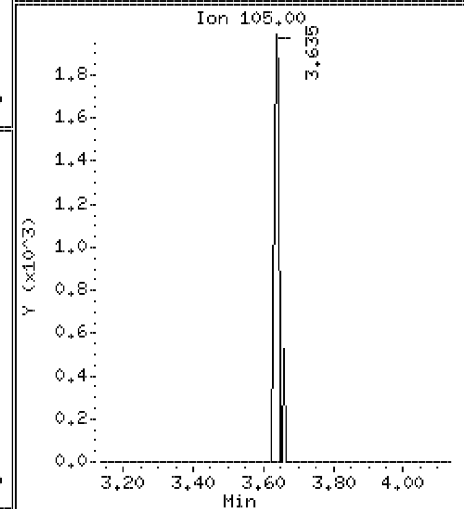
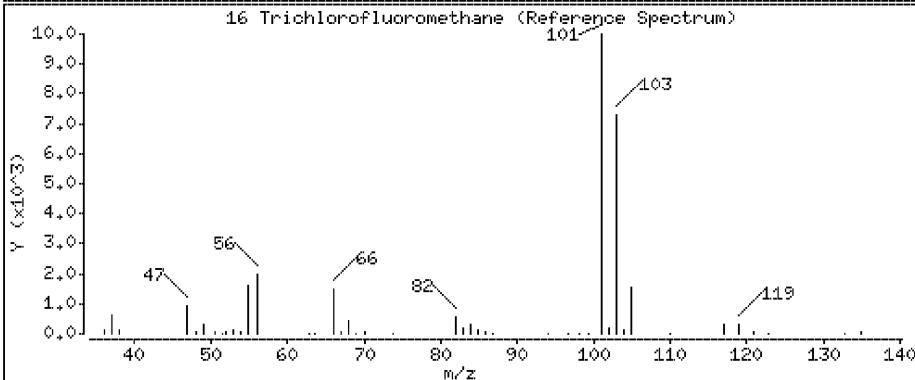
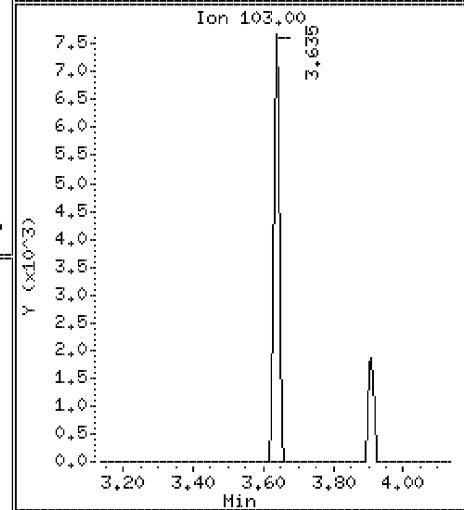
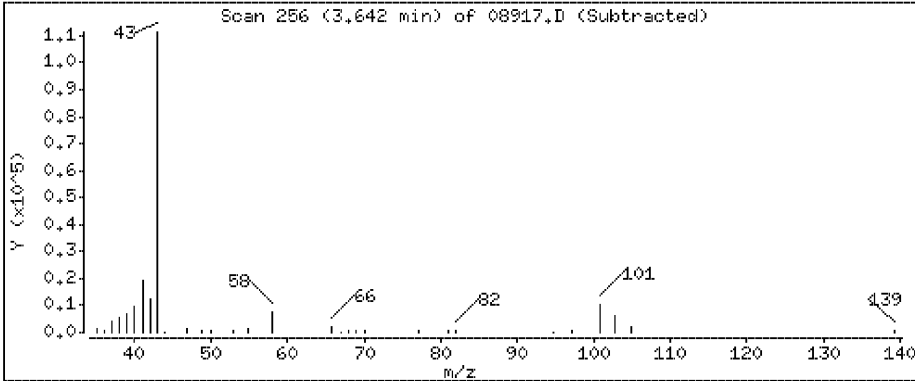
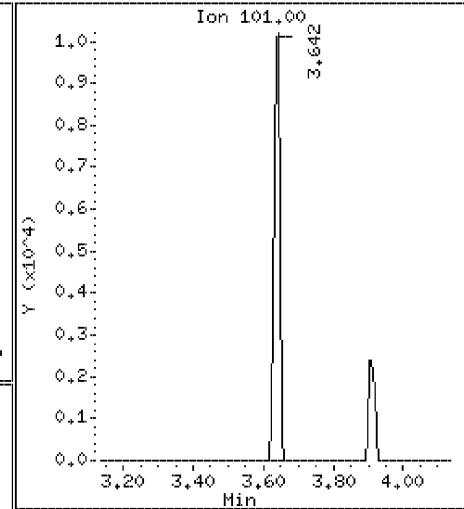
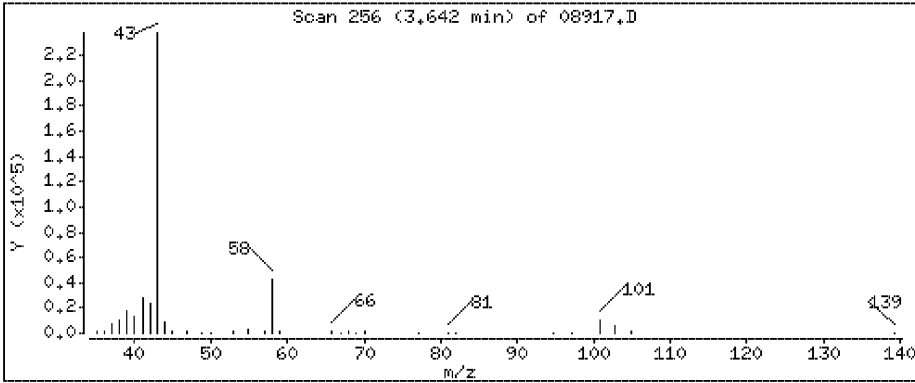
13 Isopentane

Concentration: 28.0 ppbv



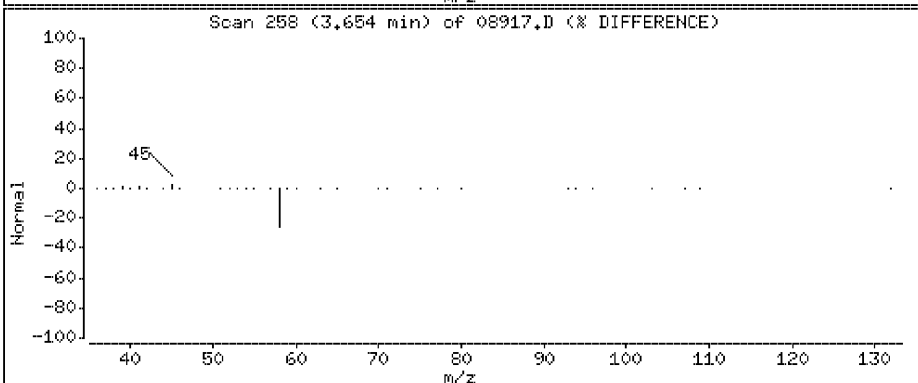
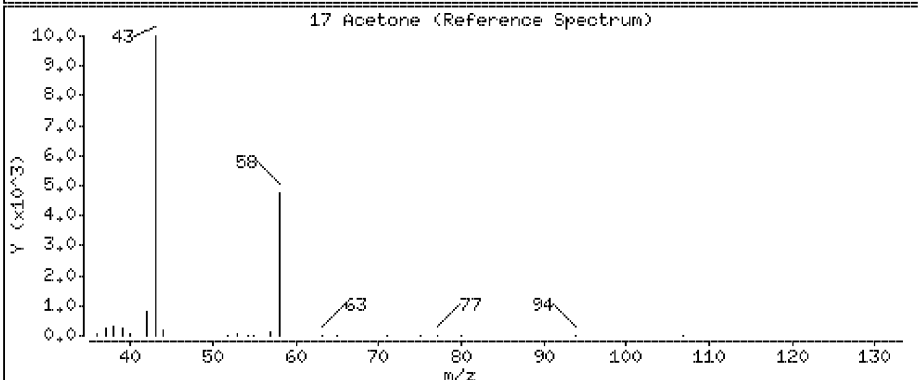
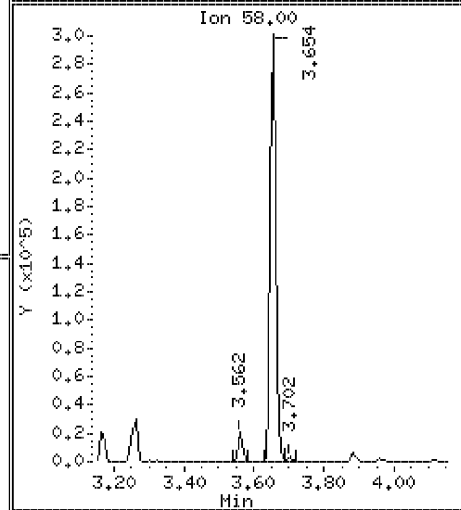
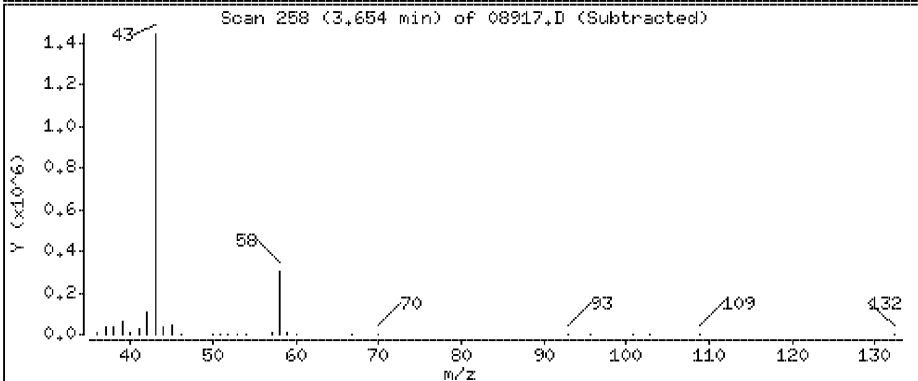
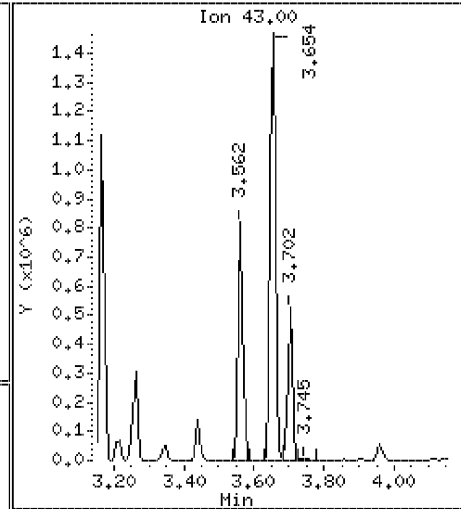
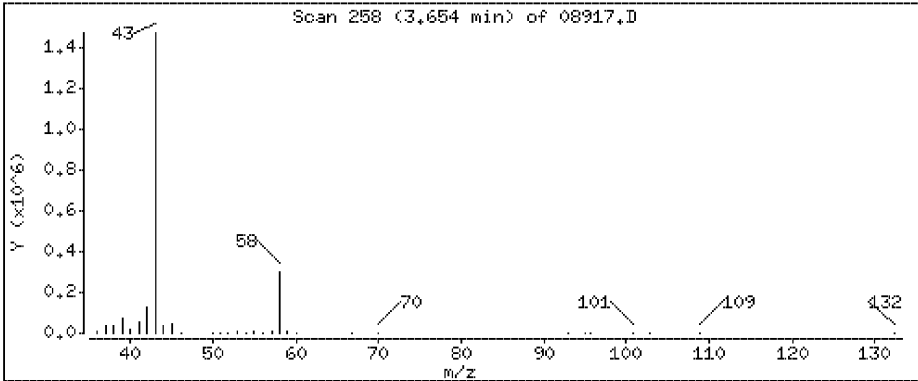
16 Trichlorofluoromethane

Concentration: 0,184 ppbv



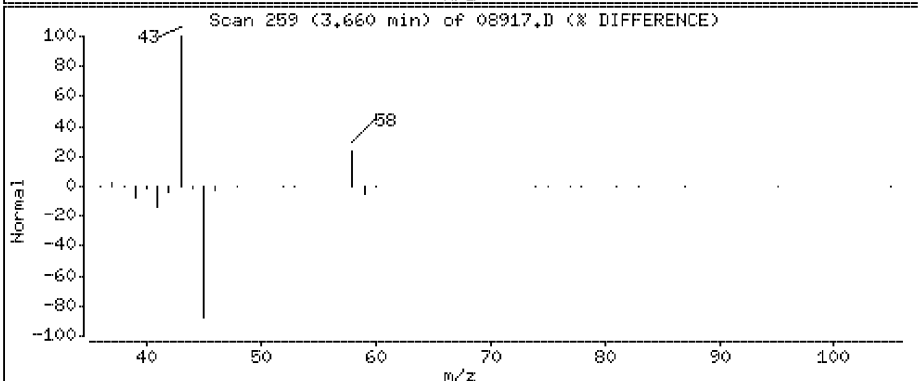
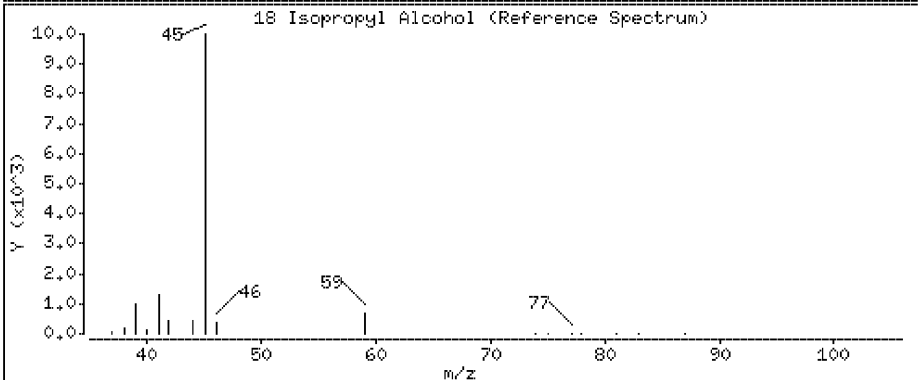
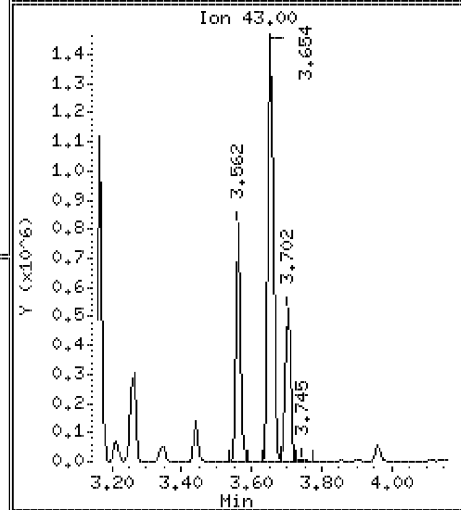
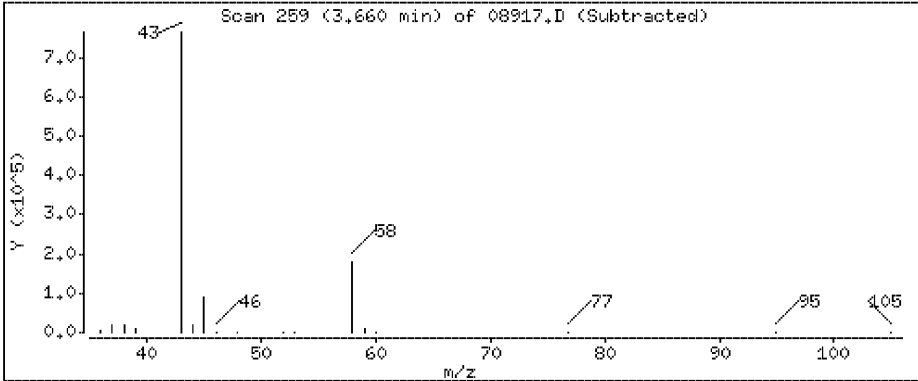
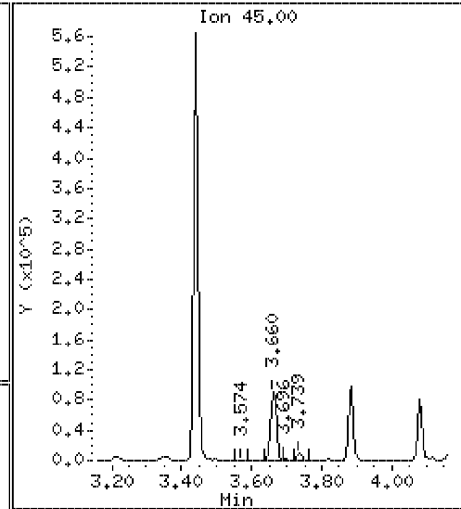
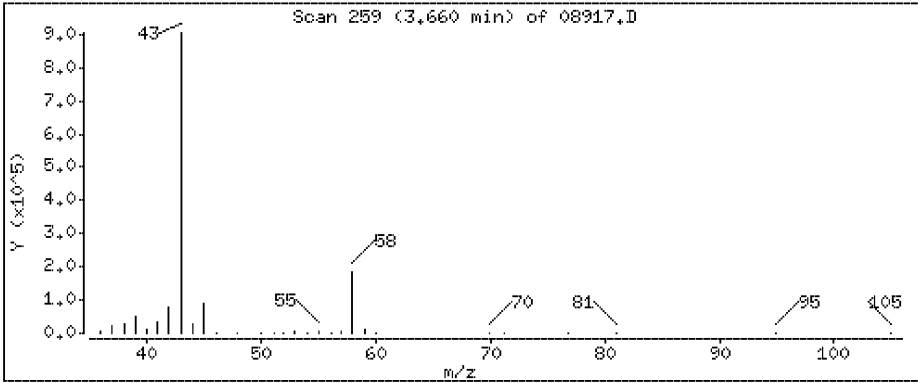
17 Acetone

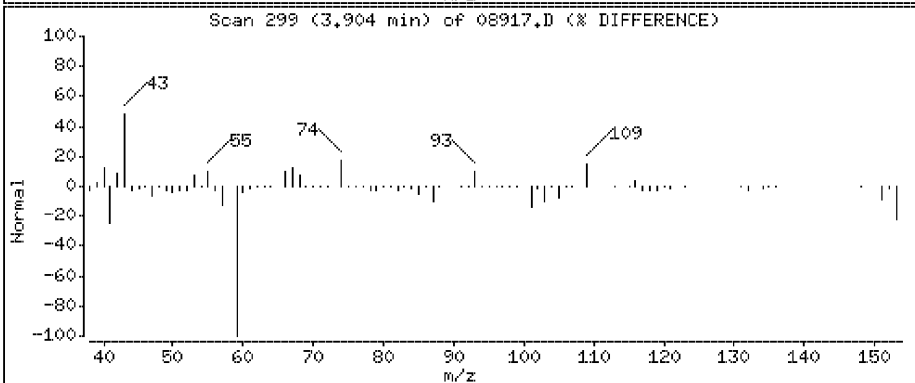
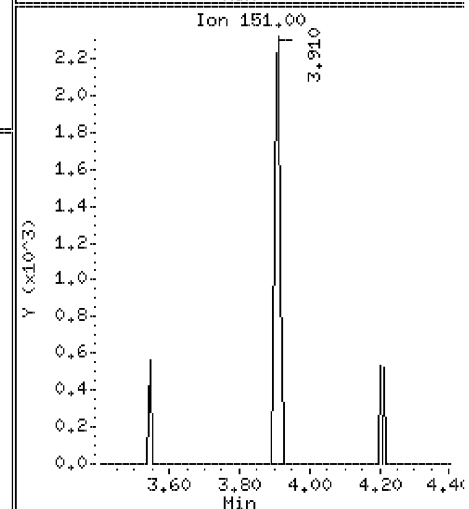
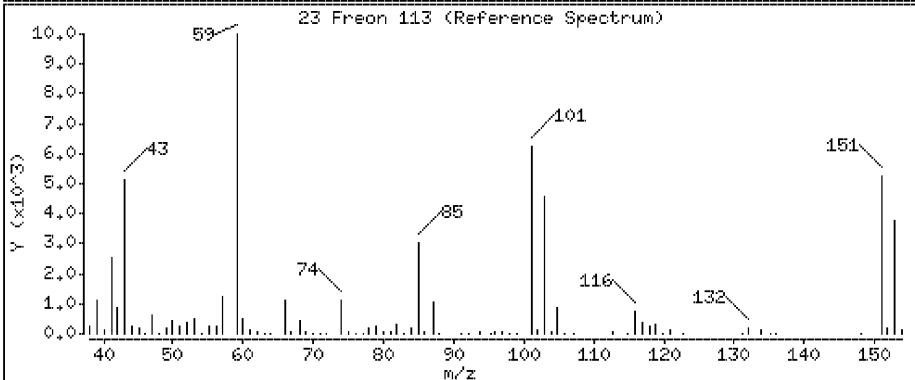
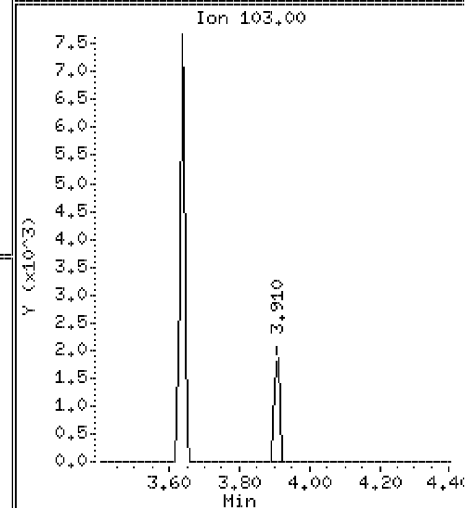
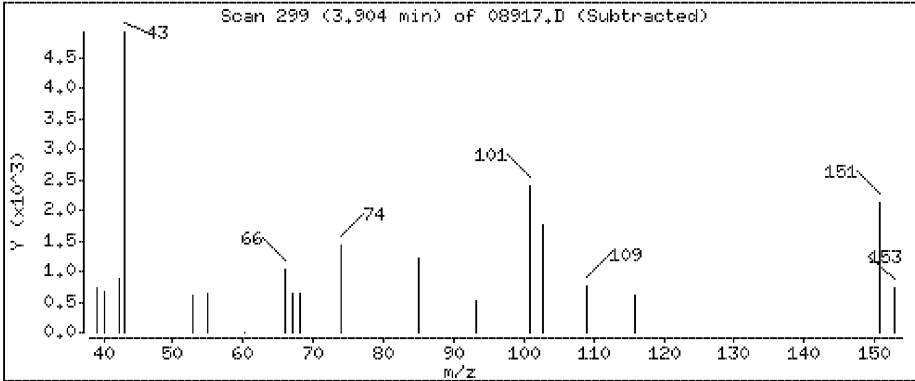
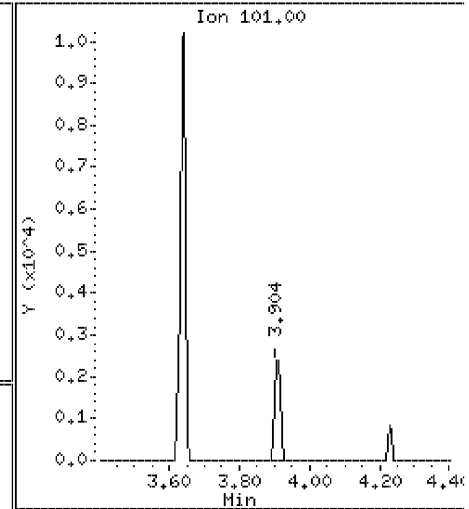
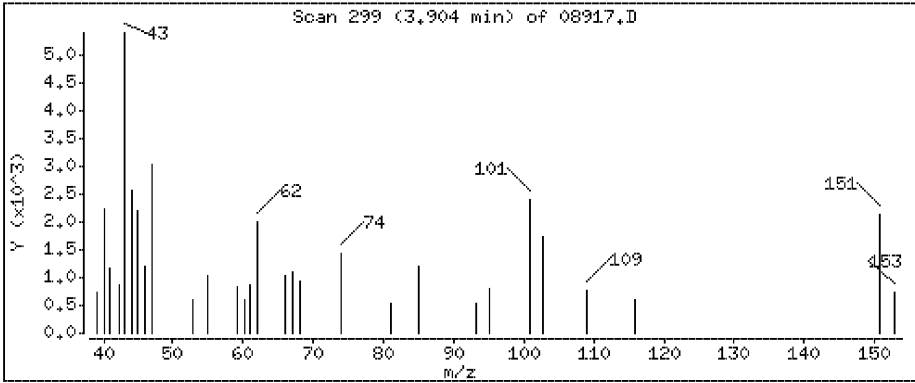
Concentration: 22.2 ppbv



18 Isopropyl Alcohol

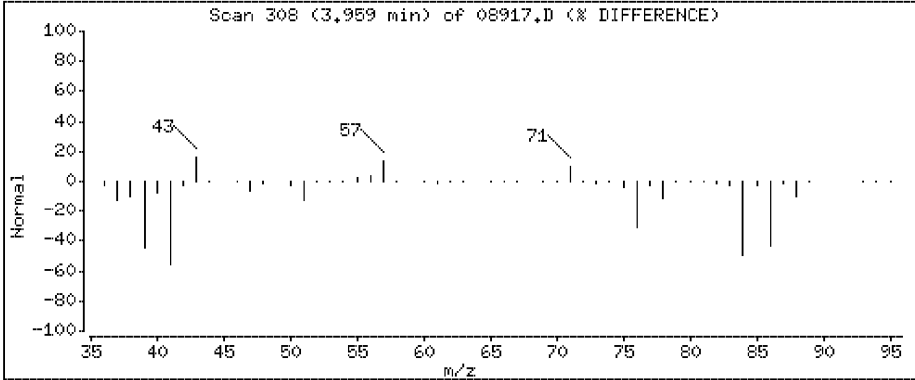
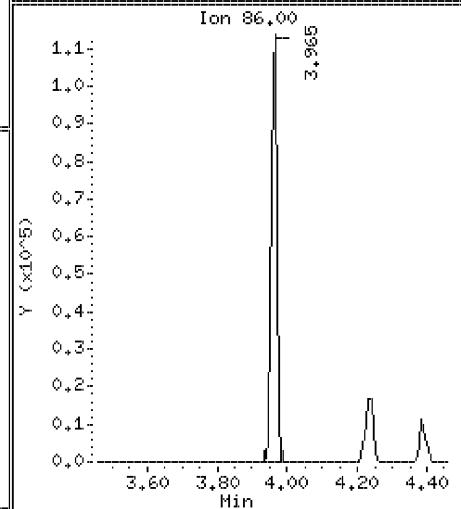
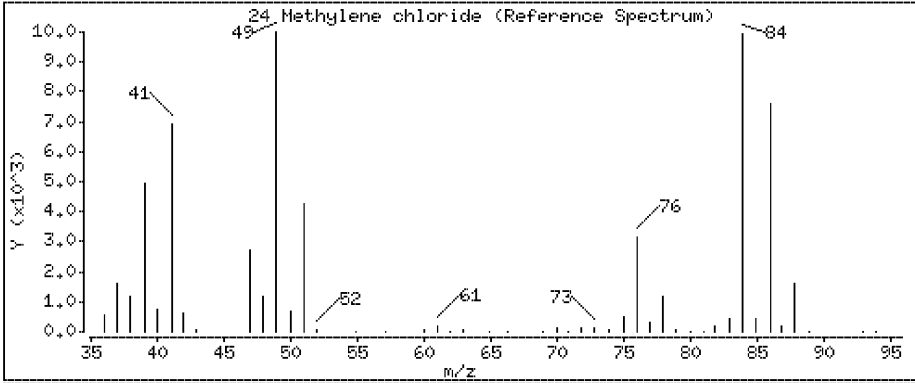
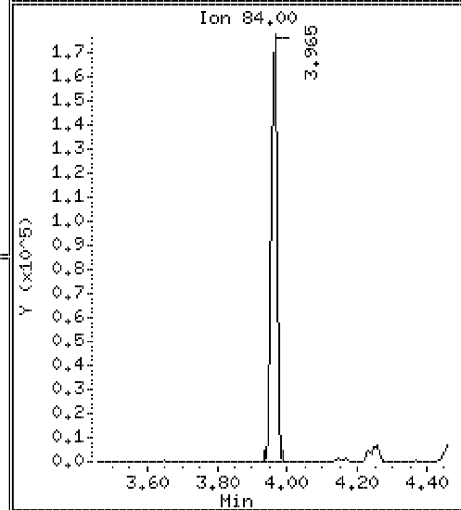
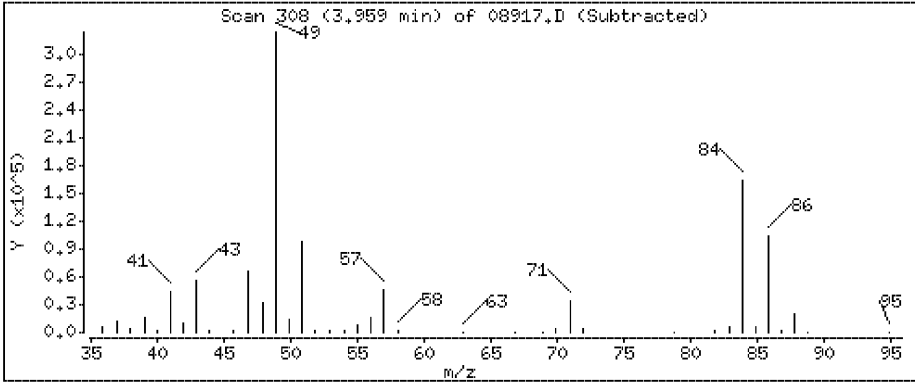
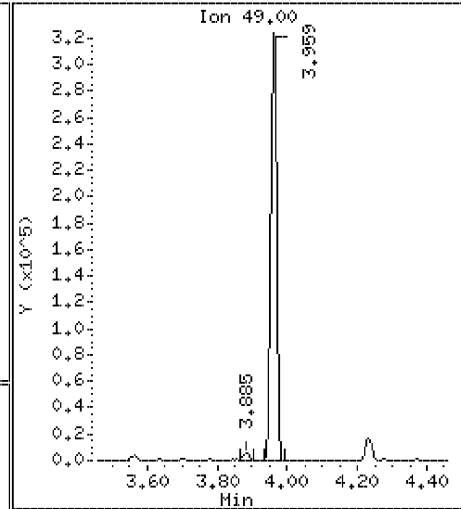
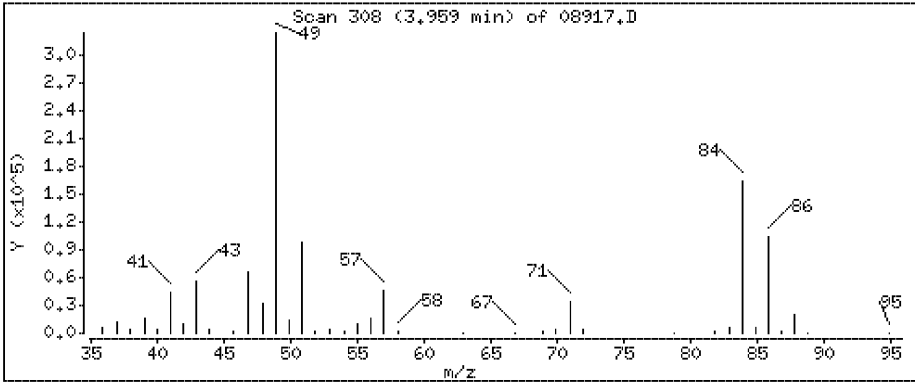
Concentration: 2.14 ppbv





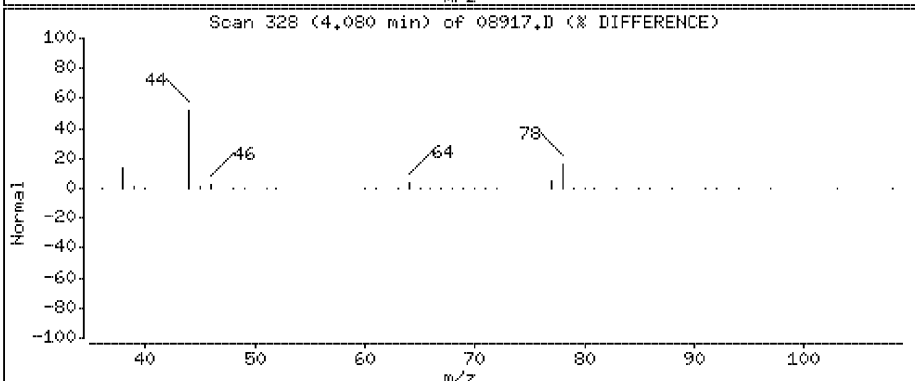
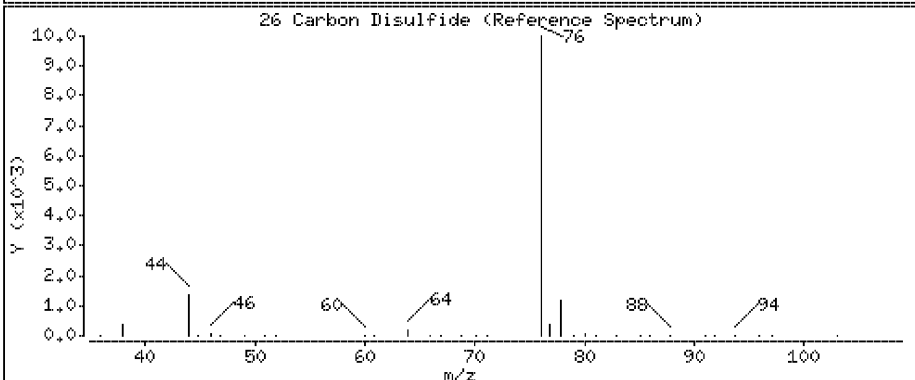
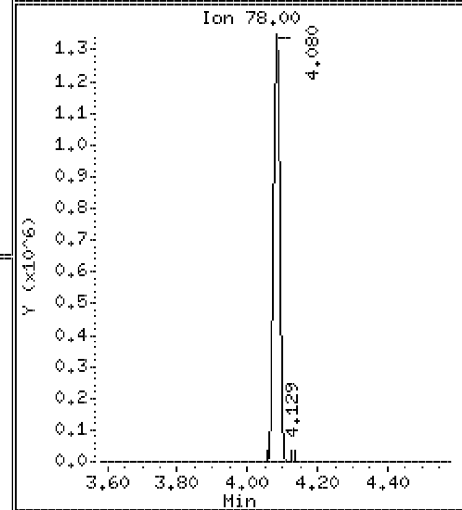
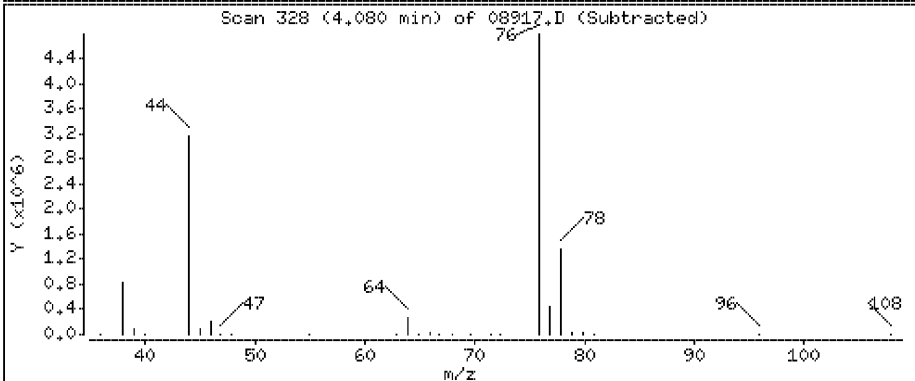
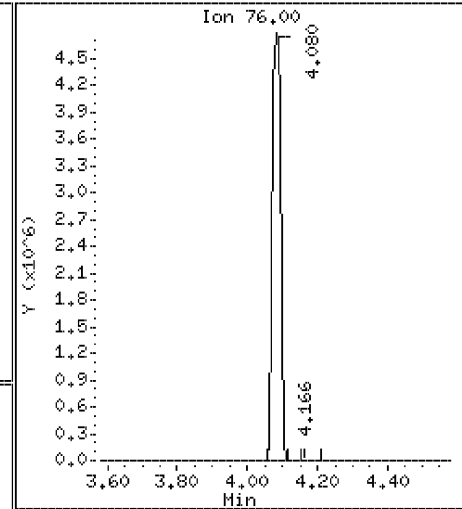
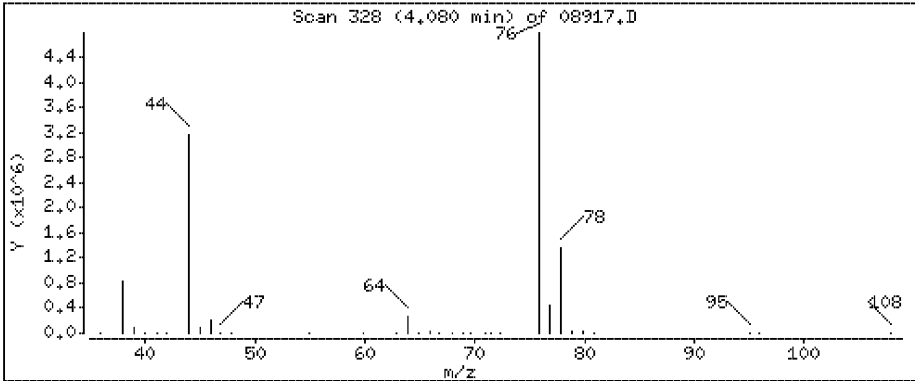
24 Methylene chloride

Concentration: 8.64 ppbv



26 Carbon Disulfide

Concentration: 115 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

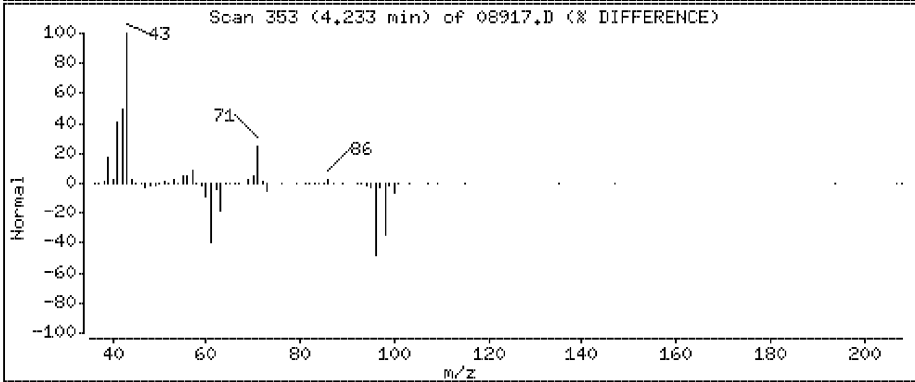
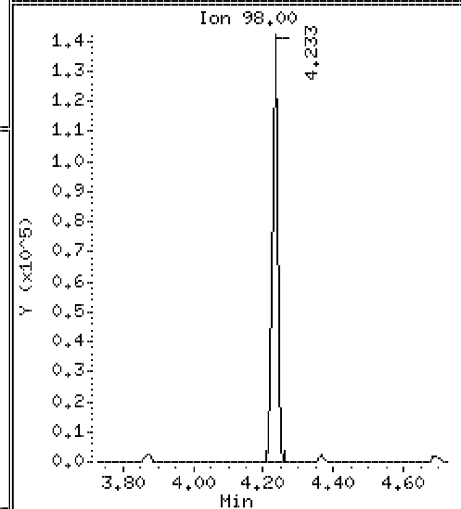
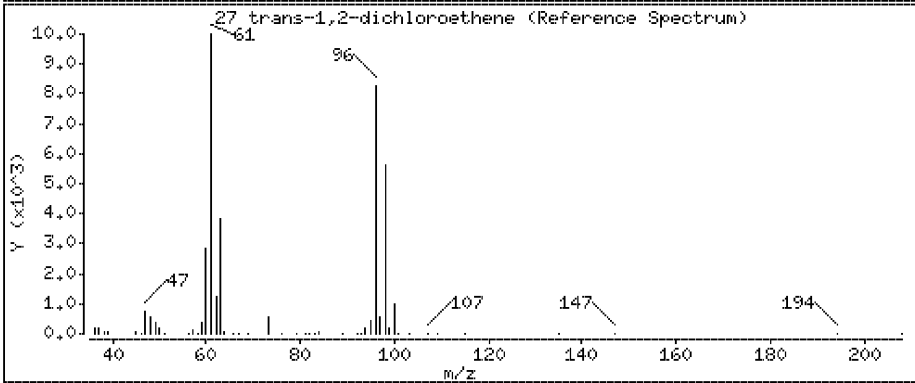
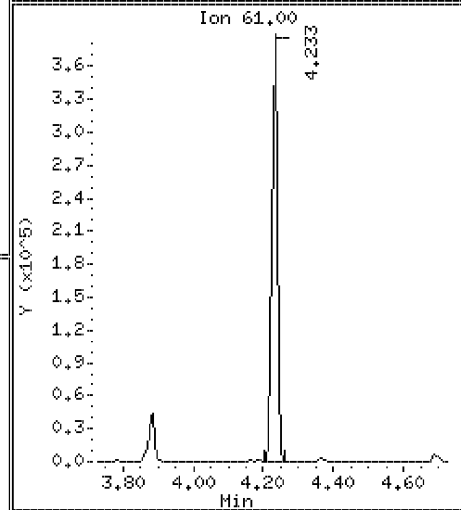
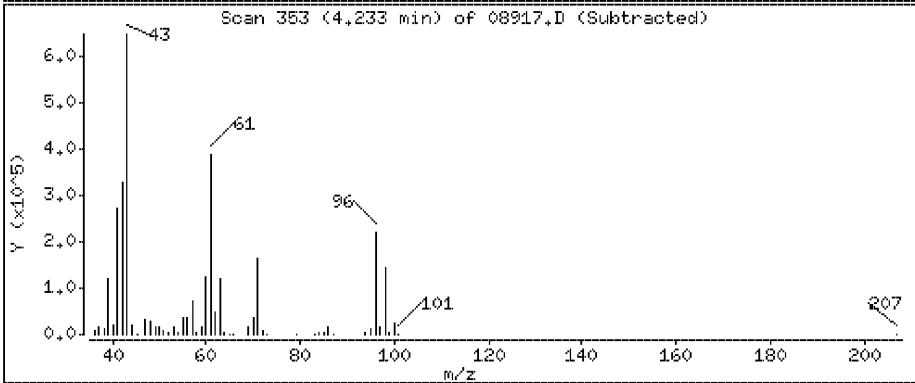
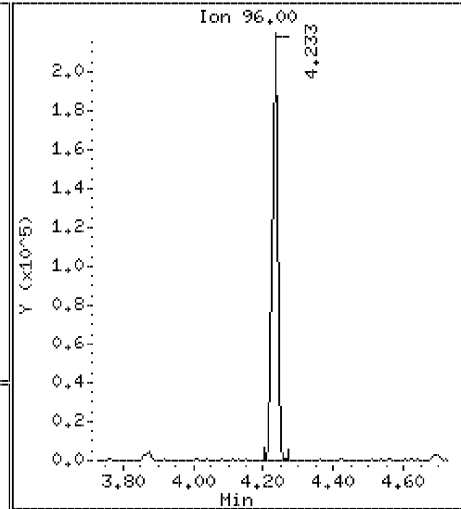
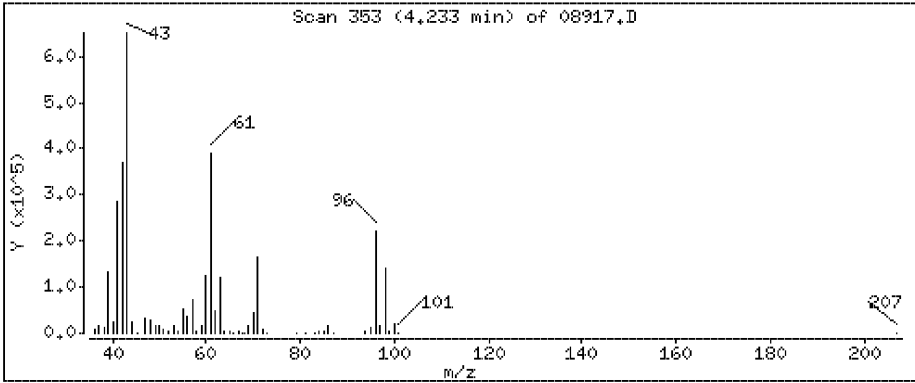
Operator: MJL

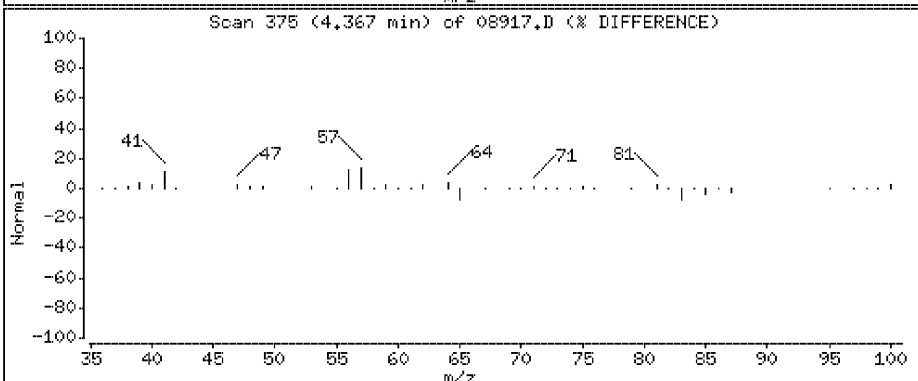
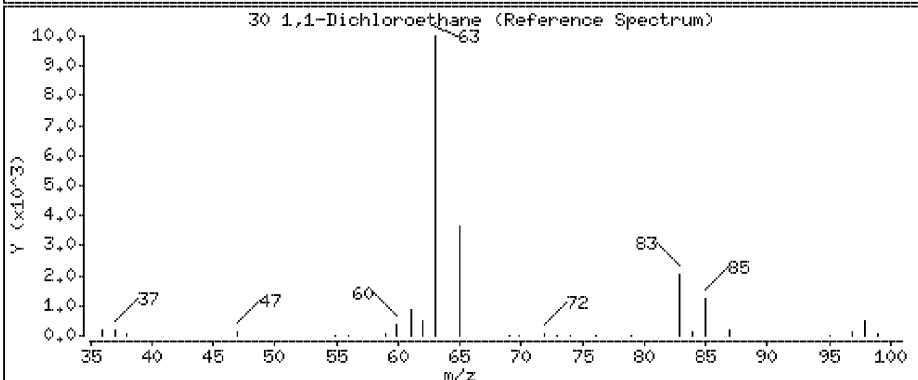
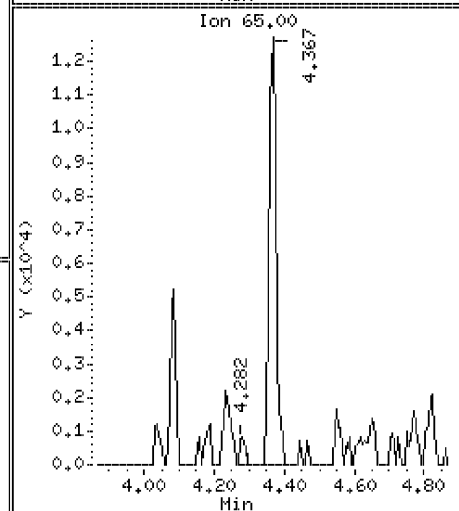
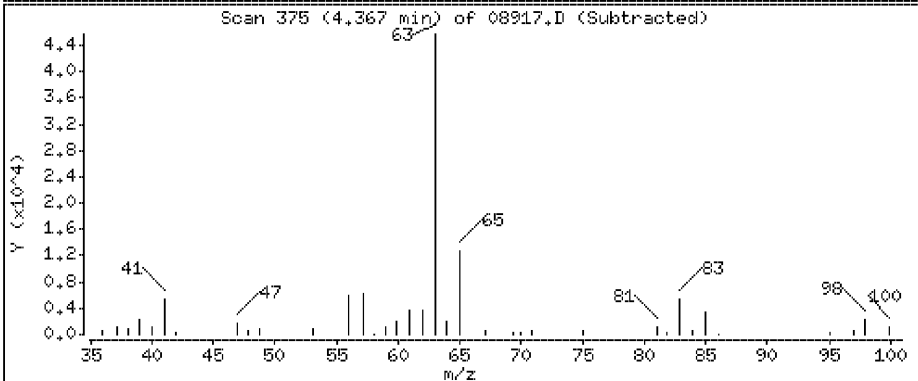
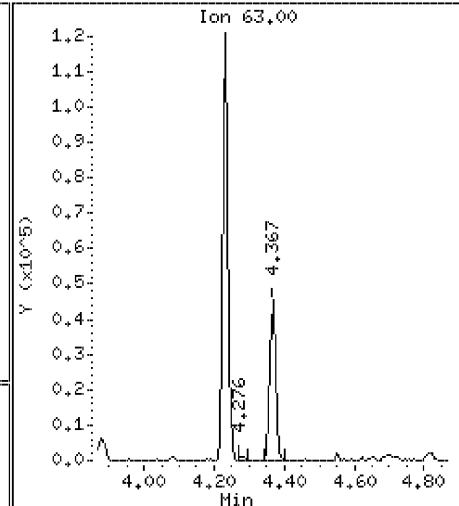
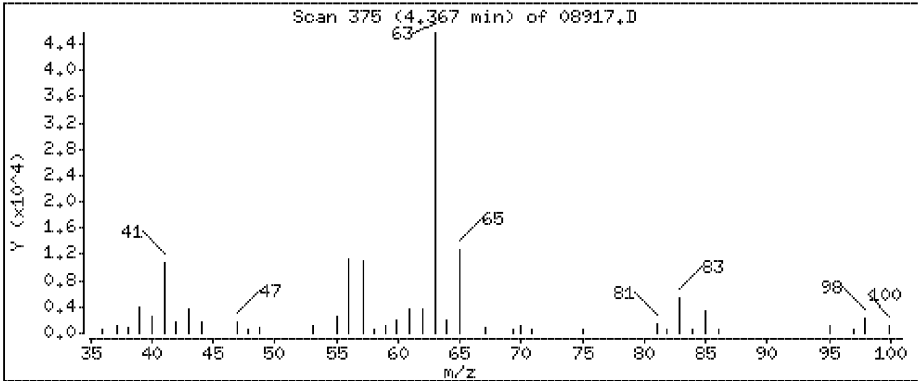
Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

27 trans-1,2-dichloroethene

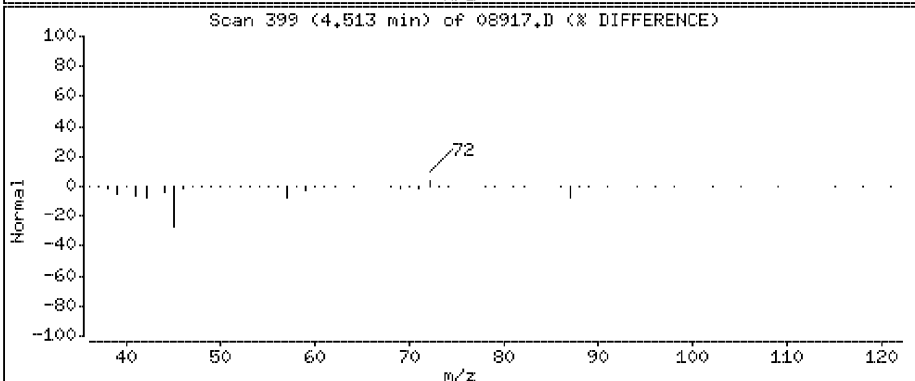
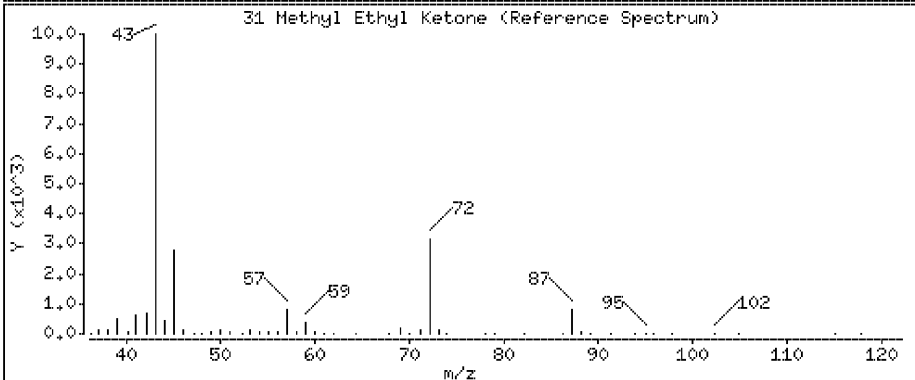
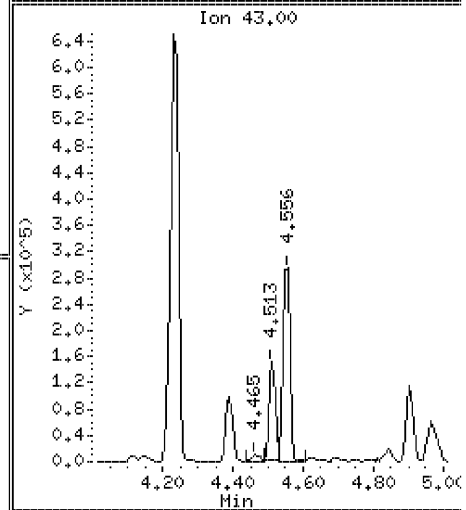
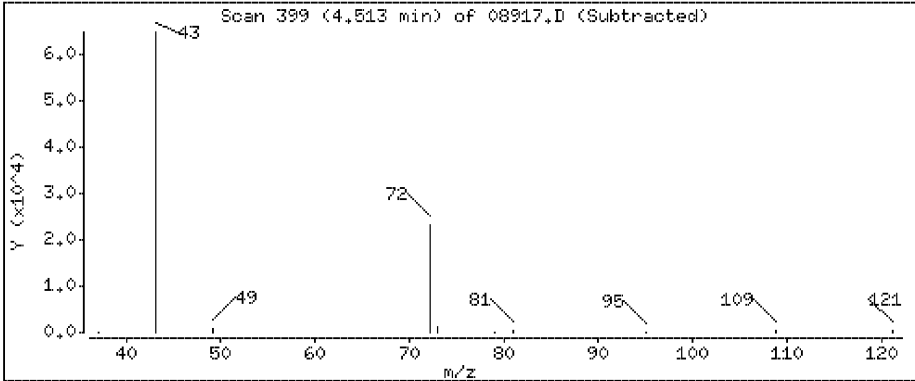
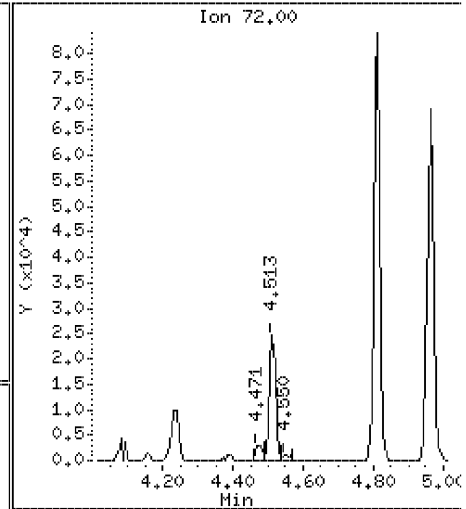
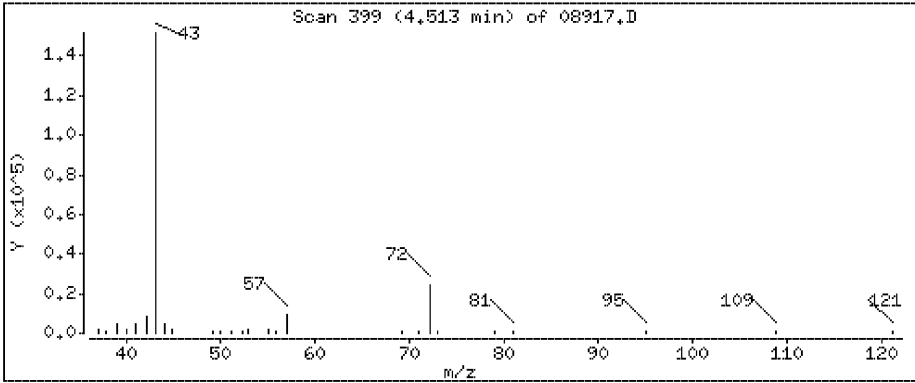
Concentration: 9,42 ppbv

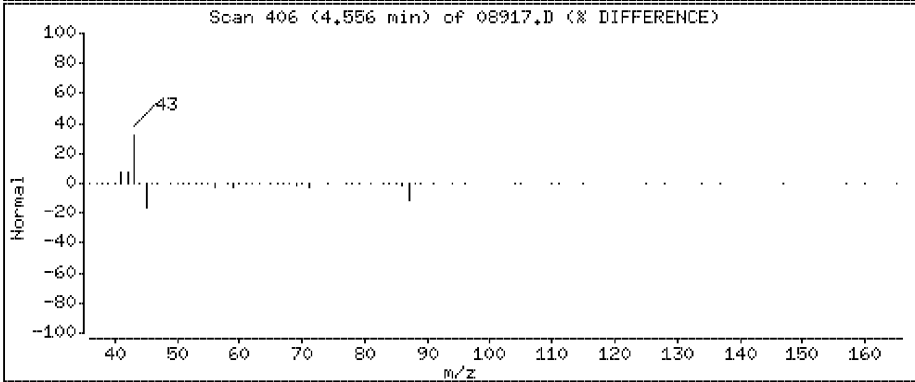
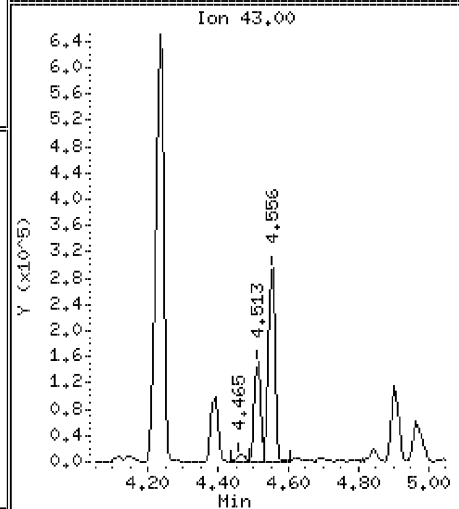
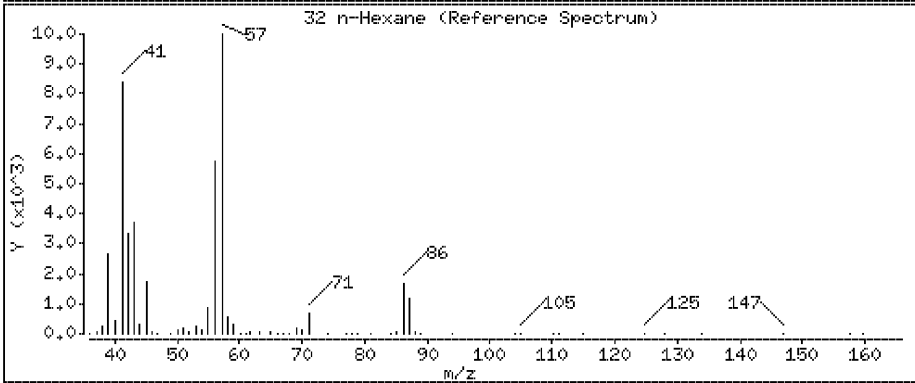
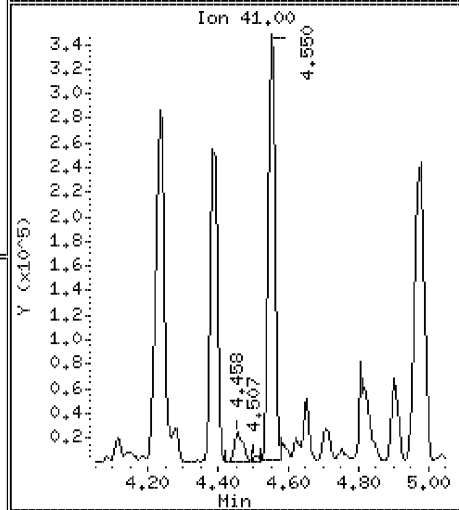
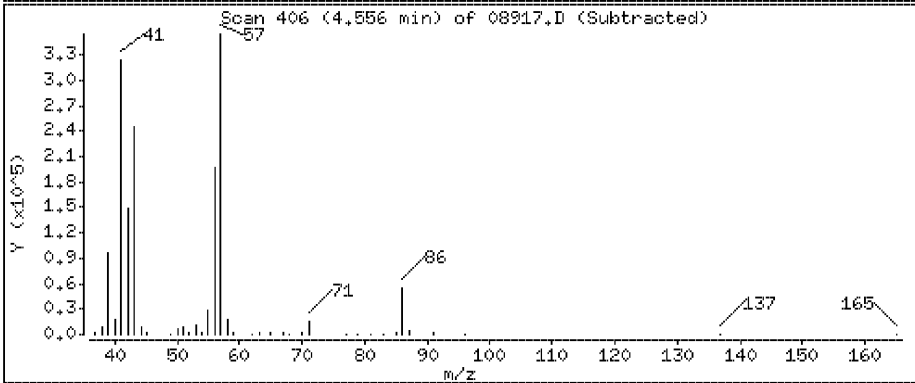
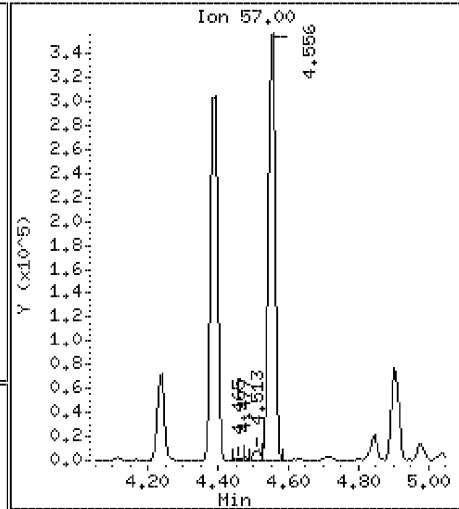
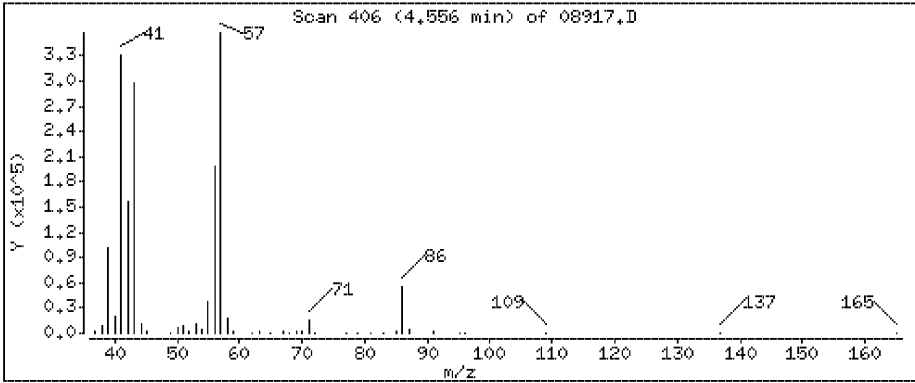




31 Methyl Ethyl Ketone

Concentration: 1.92 ppbv





Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

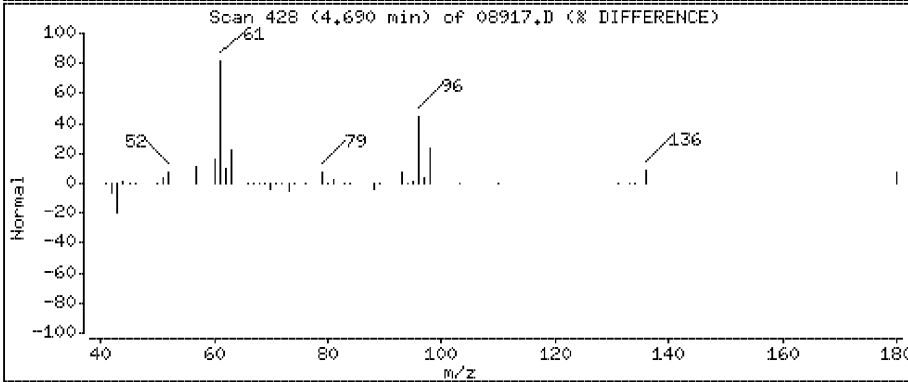
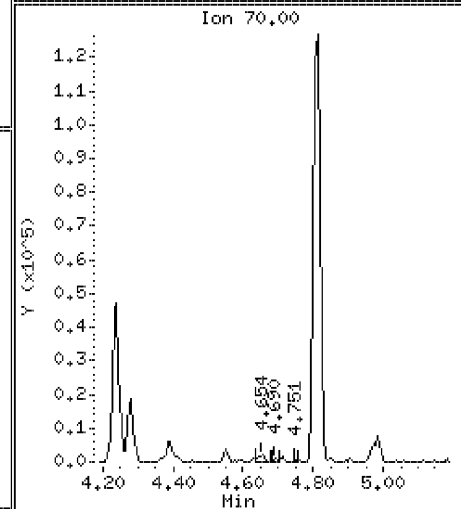
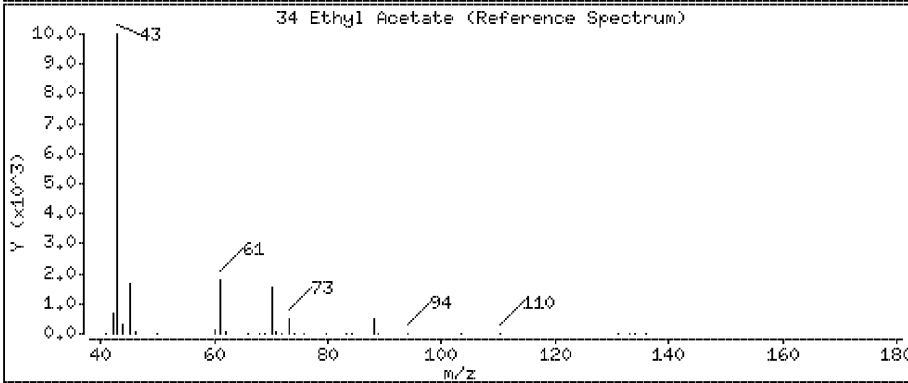
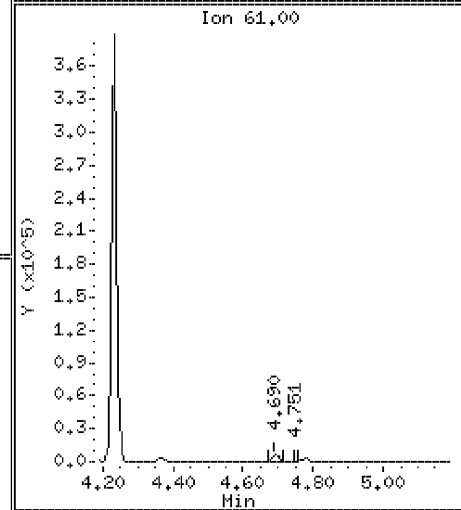
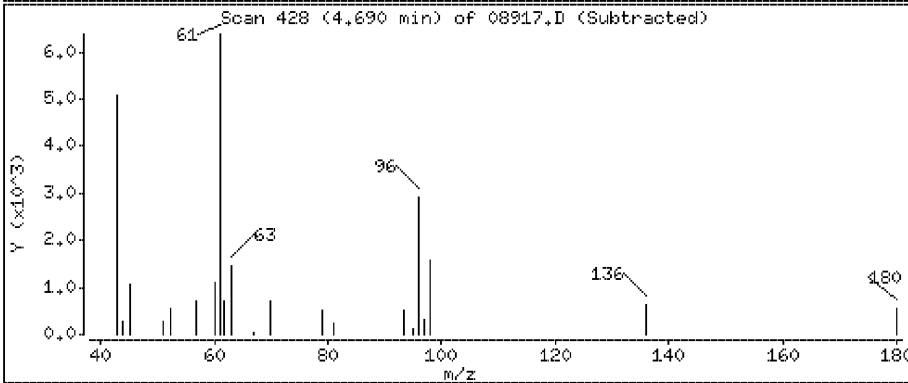
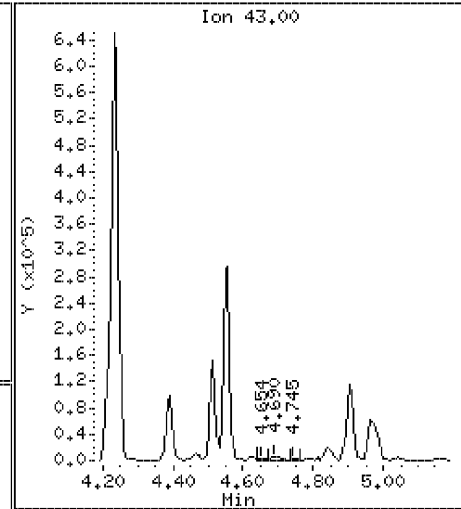
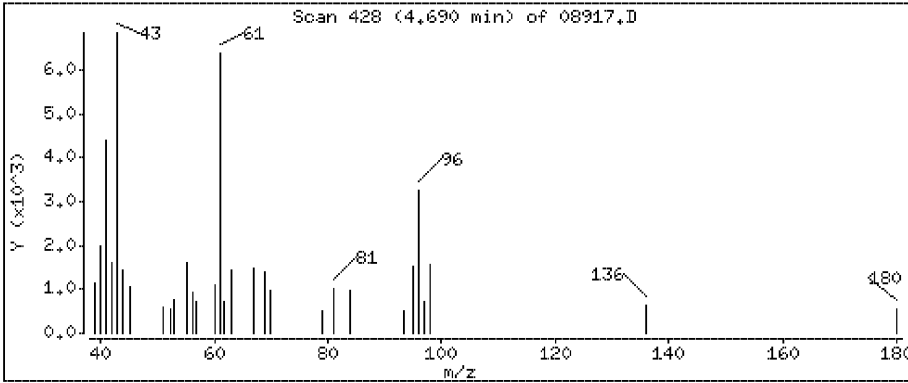
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

34 Ethyl Acetate

Concentration: 0.118 ppbv



Data File: \\192.168.10.12\chem\10airI.i\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

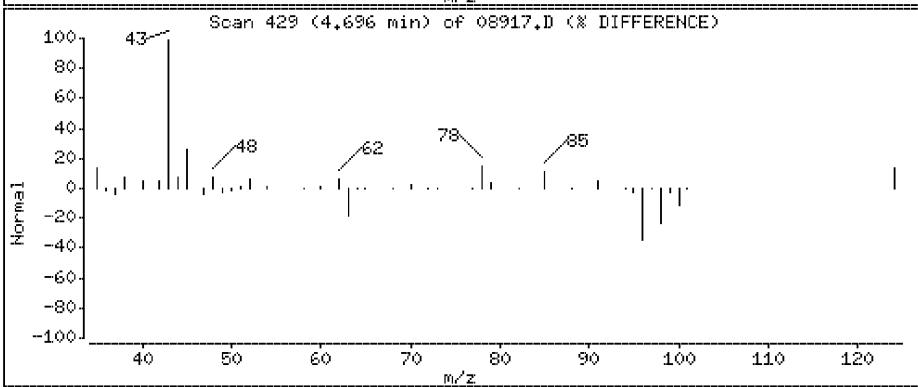
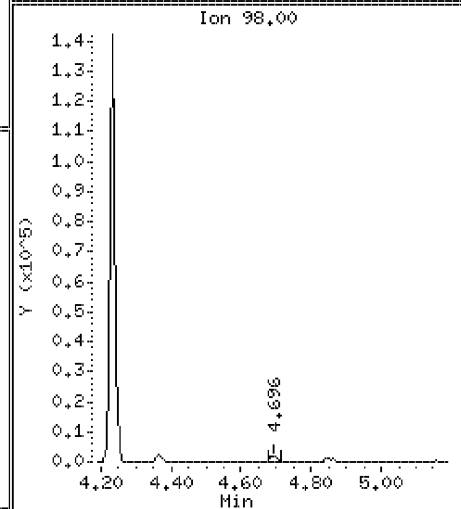
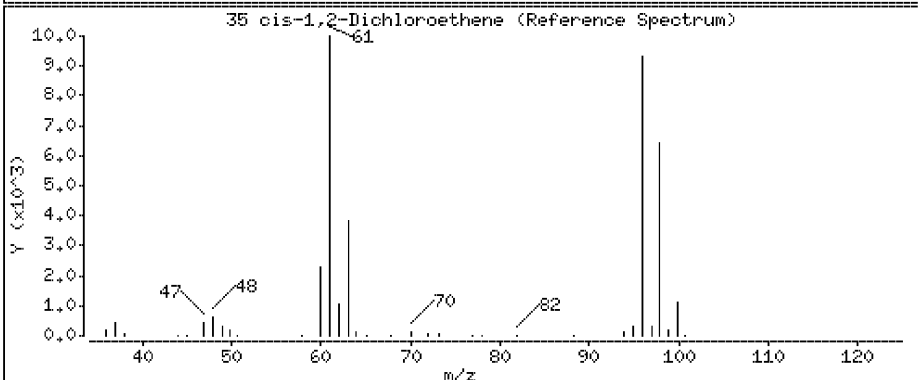
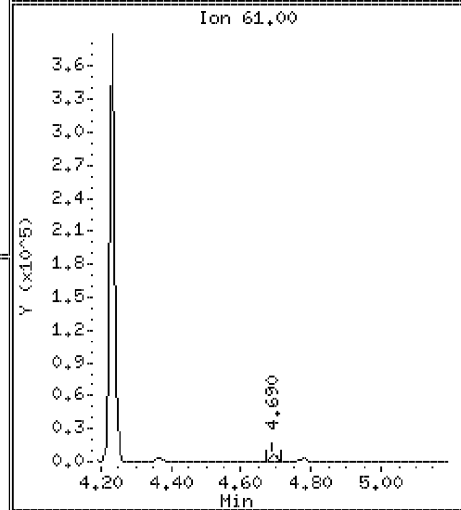
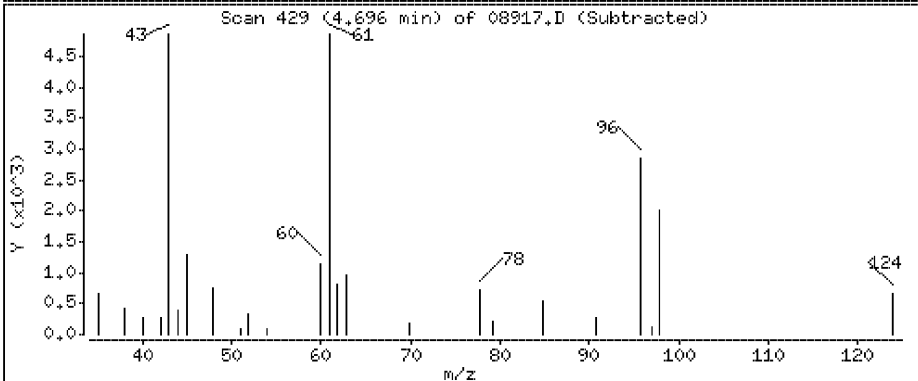
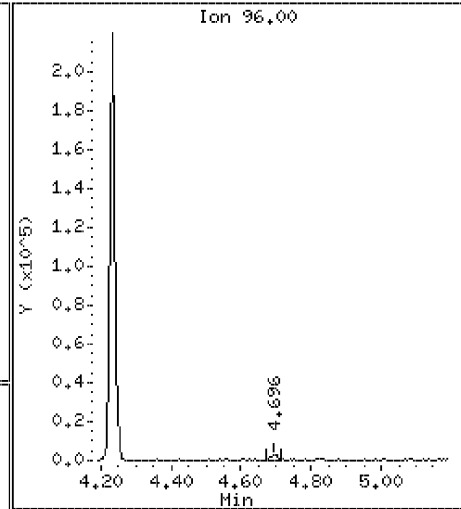
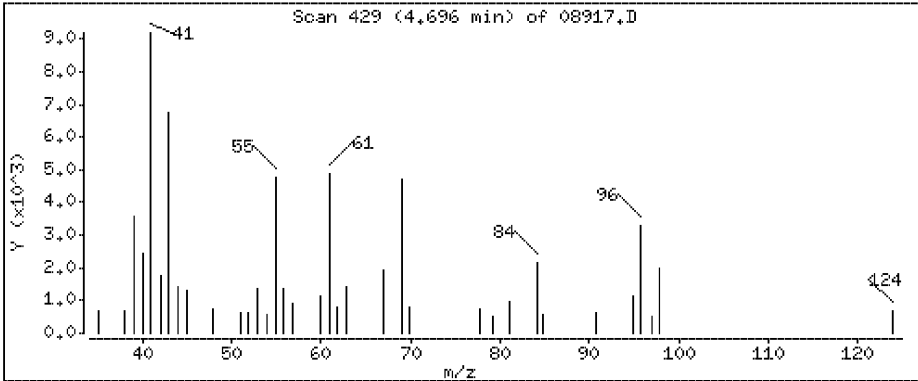
Operator: MJL

Column phase: DB-5 SN:USD449717H

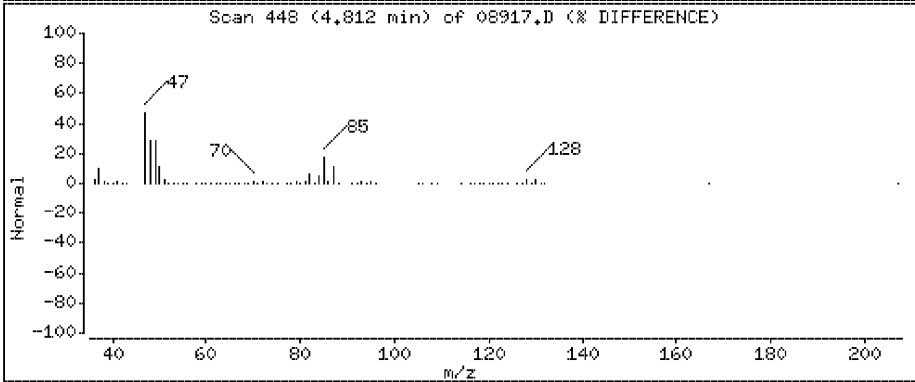
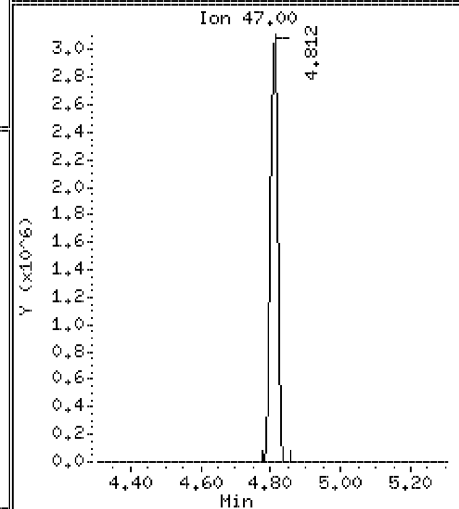
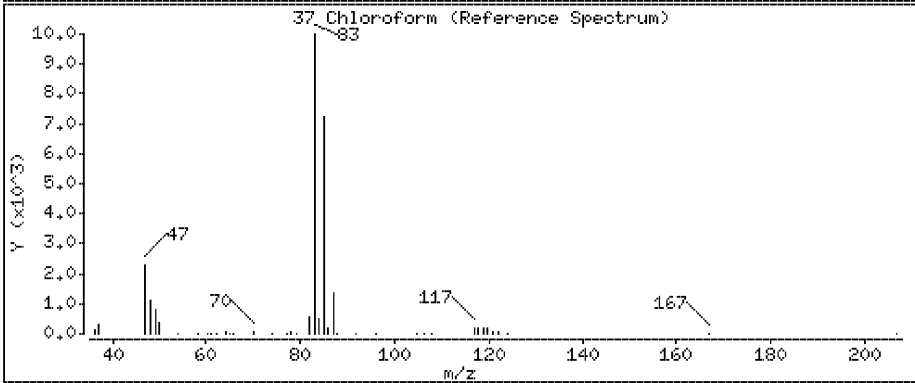
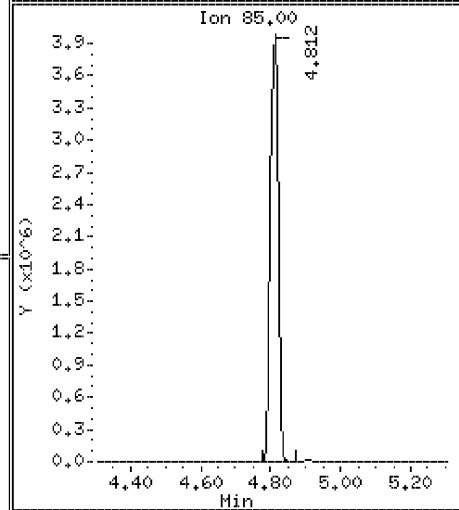
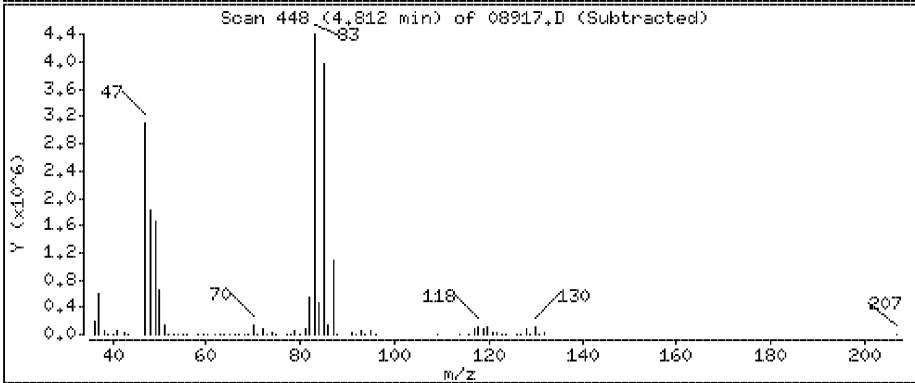
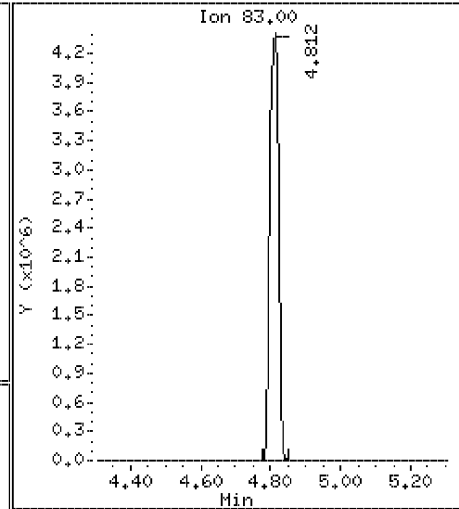
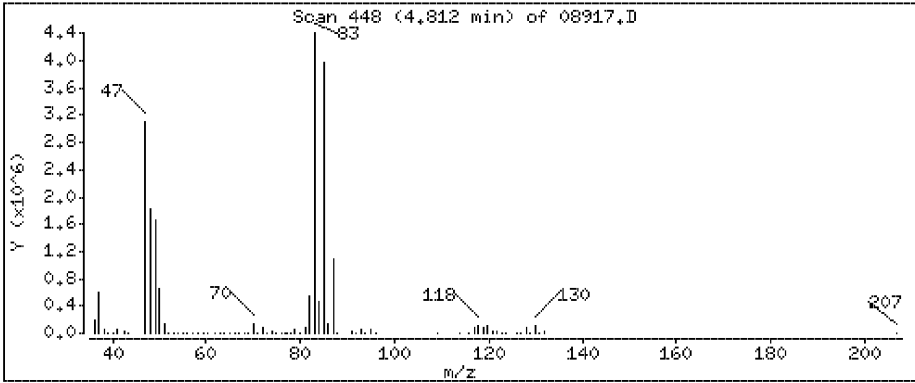
Column diameter: 0,32

35 cis-1,2-Dichloroethene

Concentration: 0,183 ppbv



37 Chloroform



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

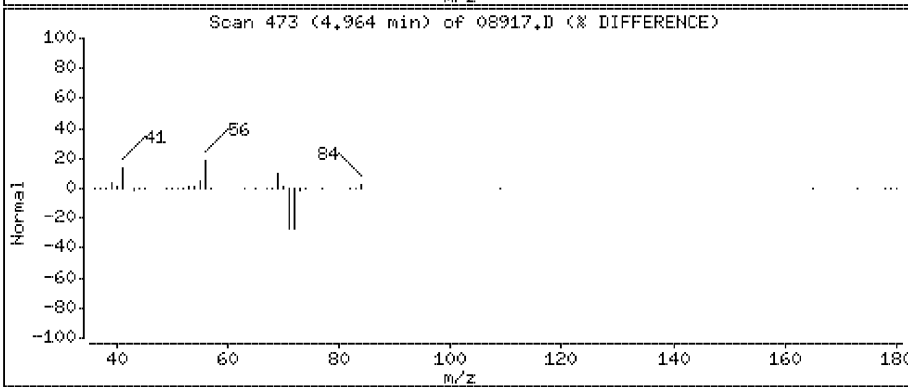
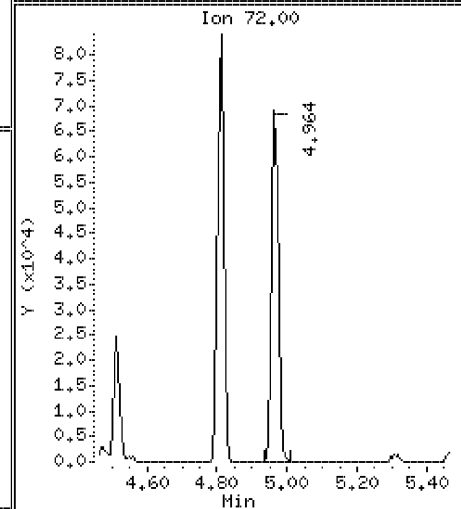
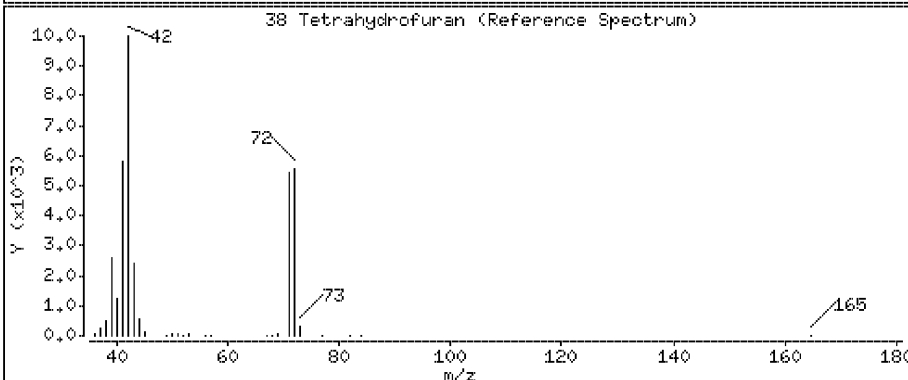
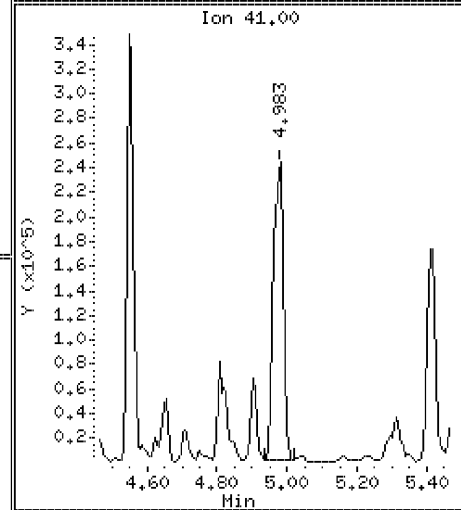
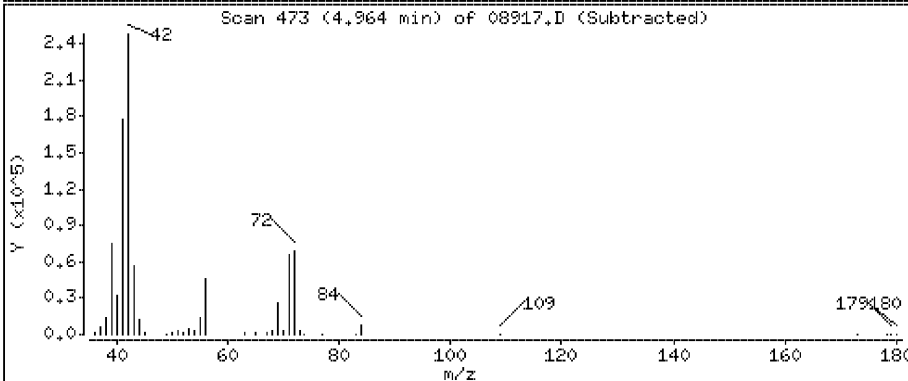
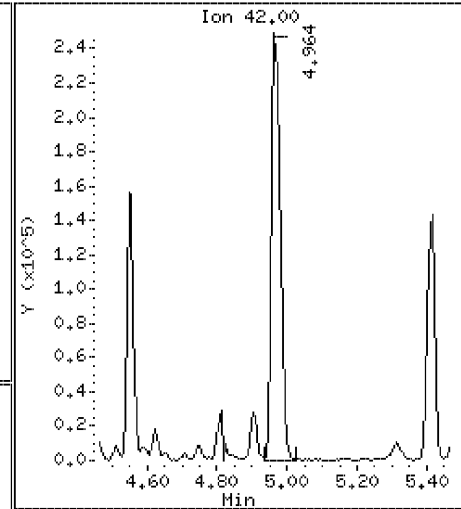
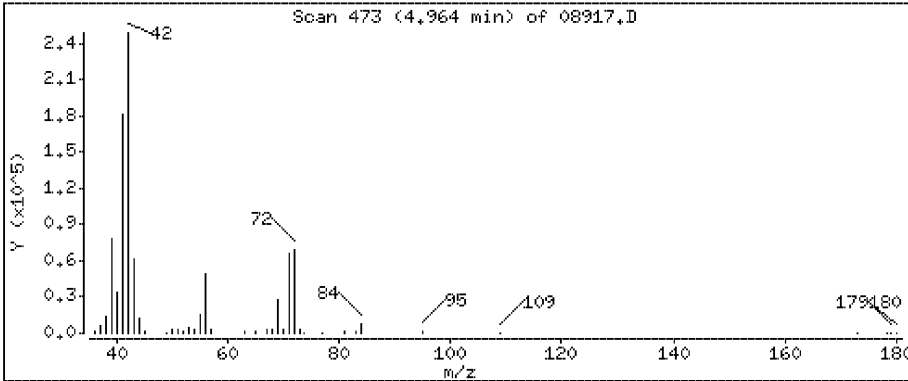
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

38 Tetrahydrofuran

Concentration: 11.4 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

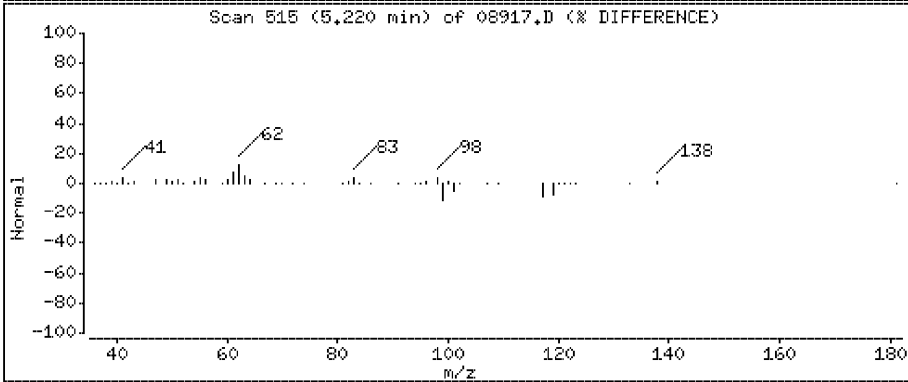
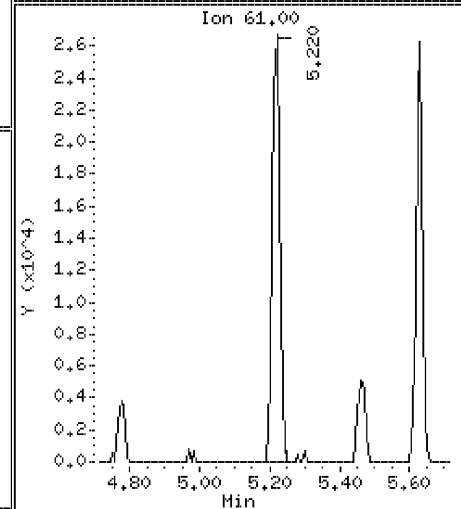
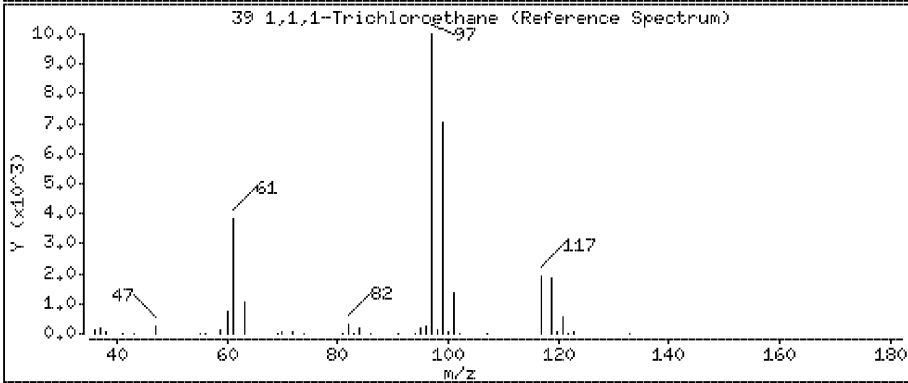
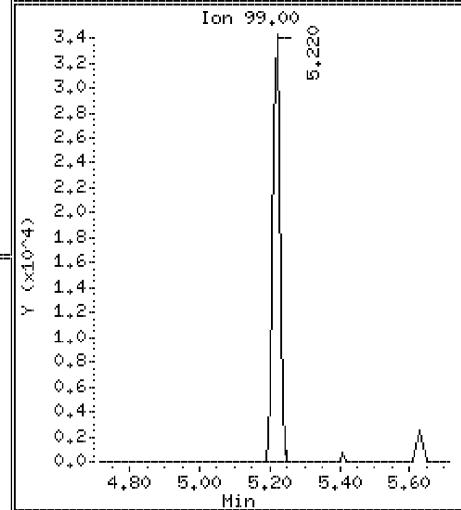
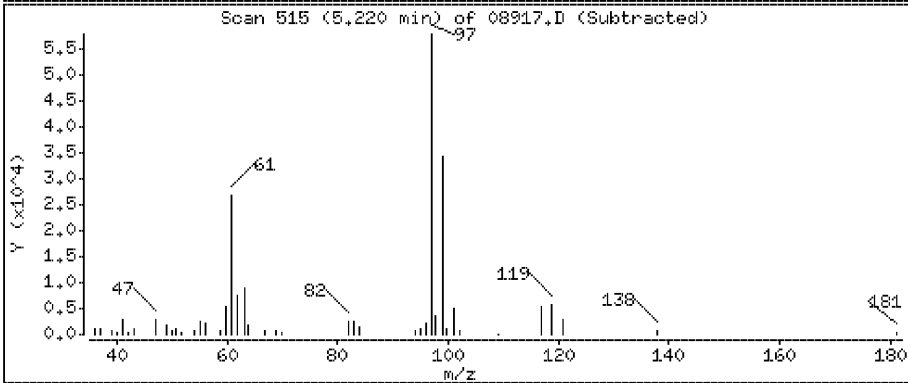
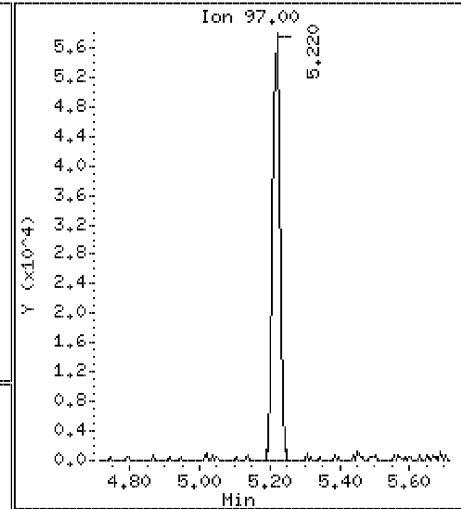
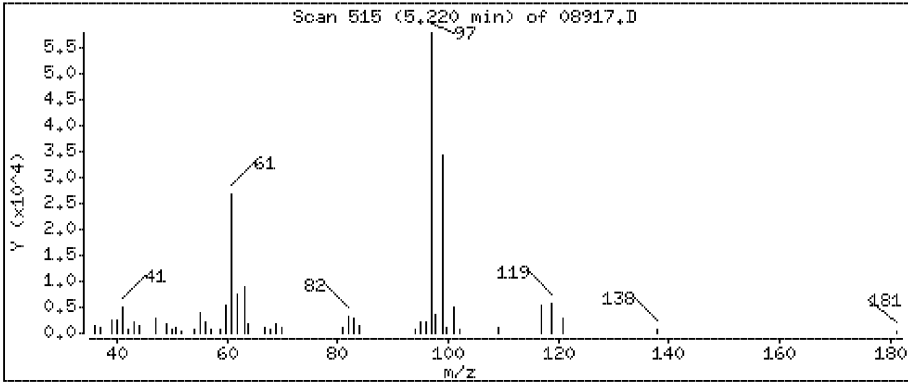
Operator: HJL

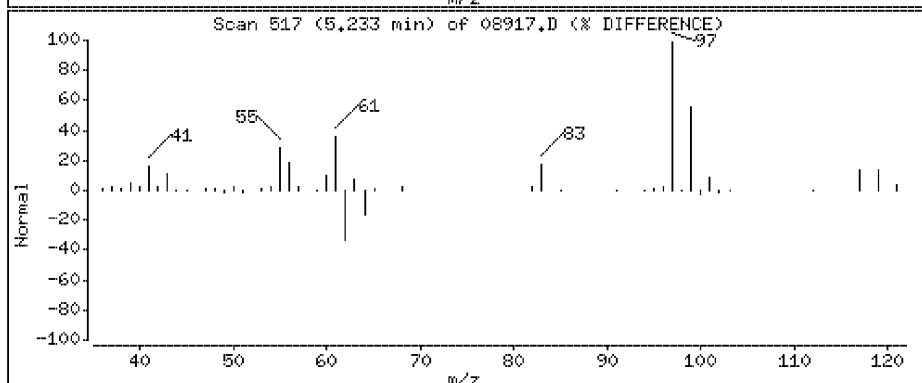
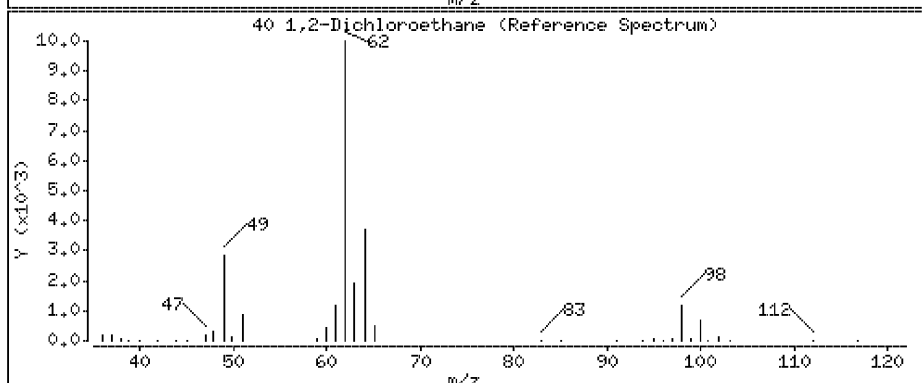
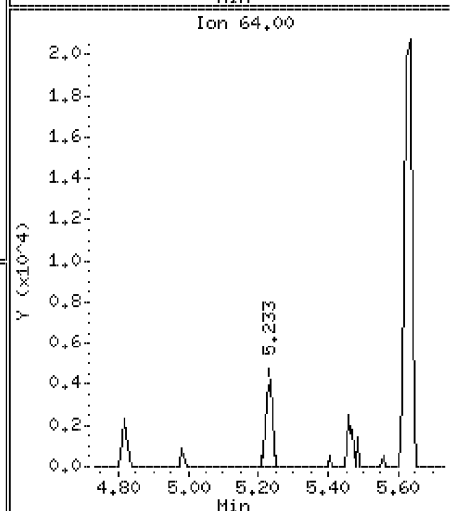
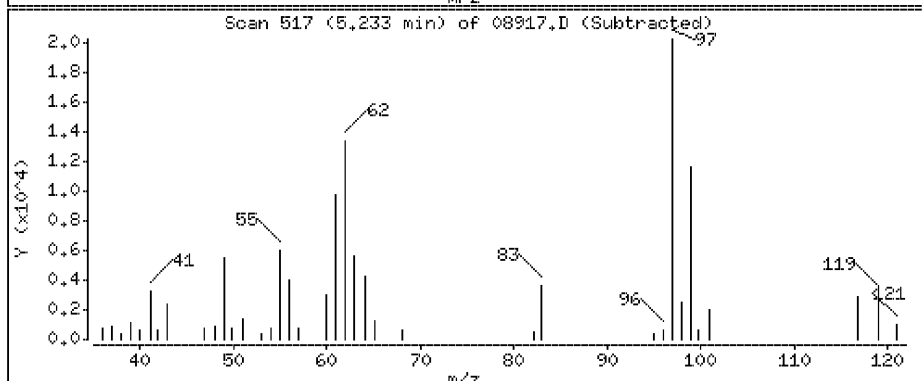
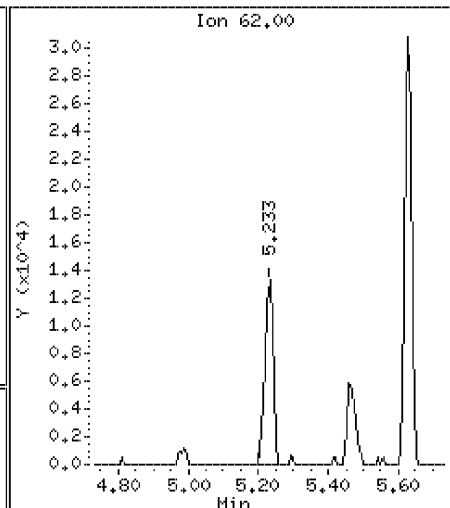
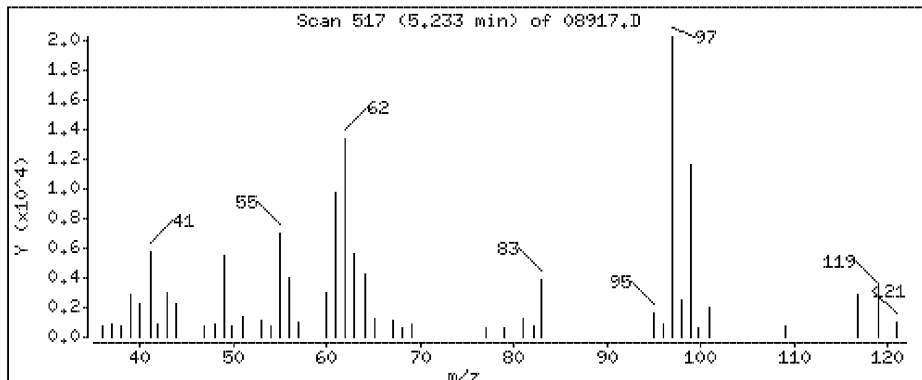
Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

39 1,1,1-Trichloroethane

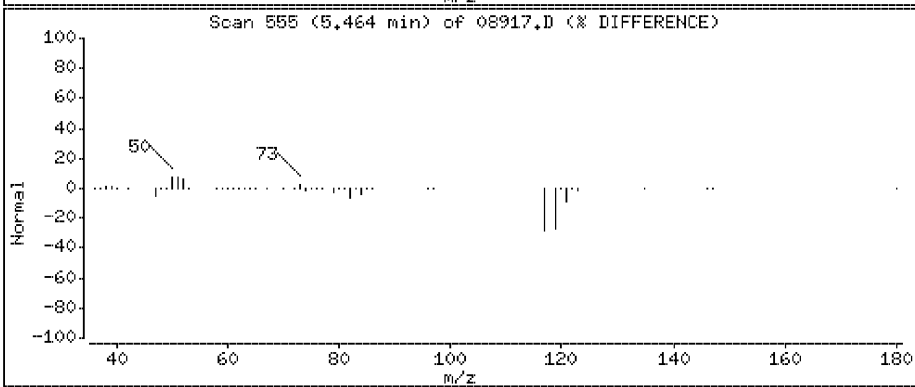
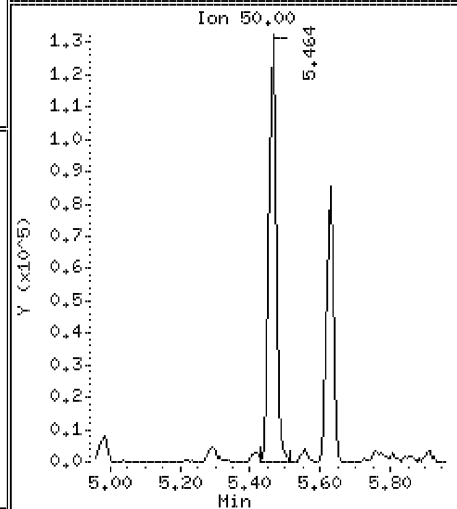
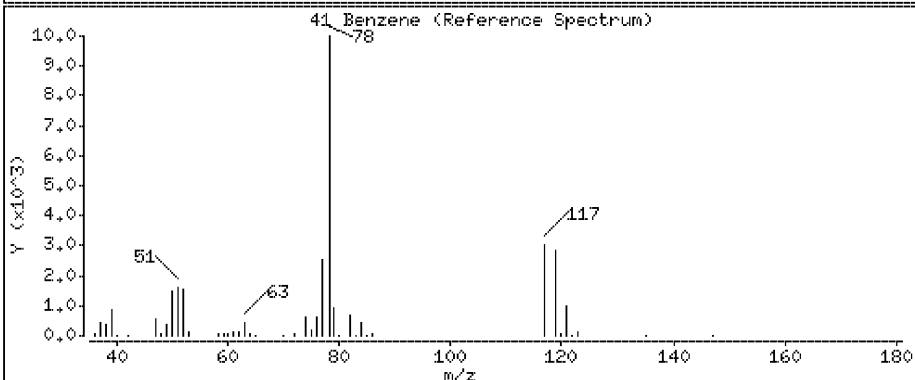
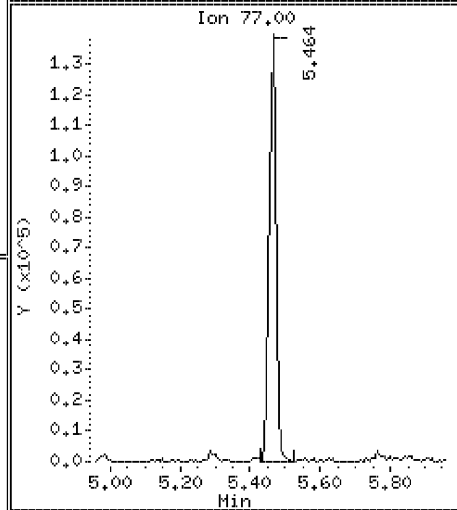
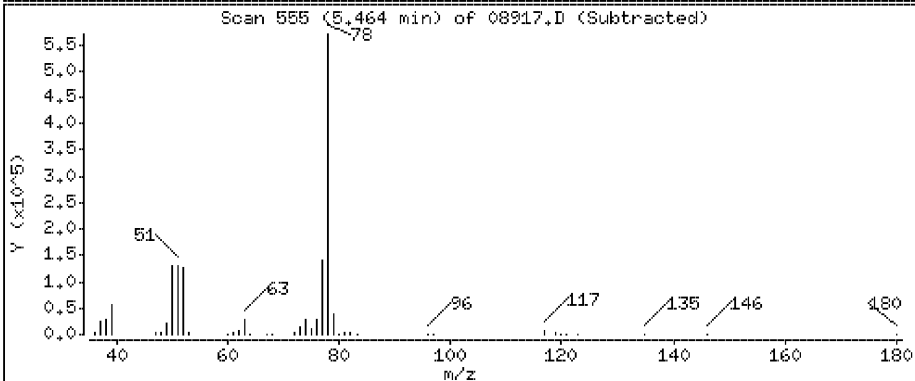
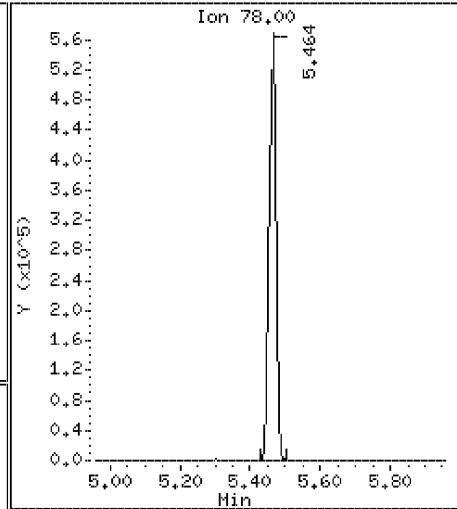
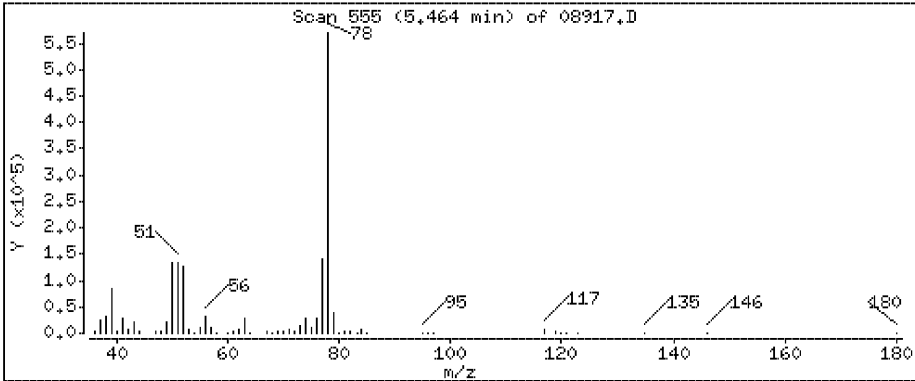
Concentration: 1.32 ppbv

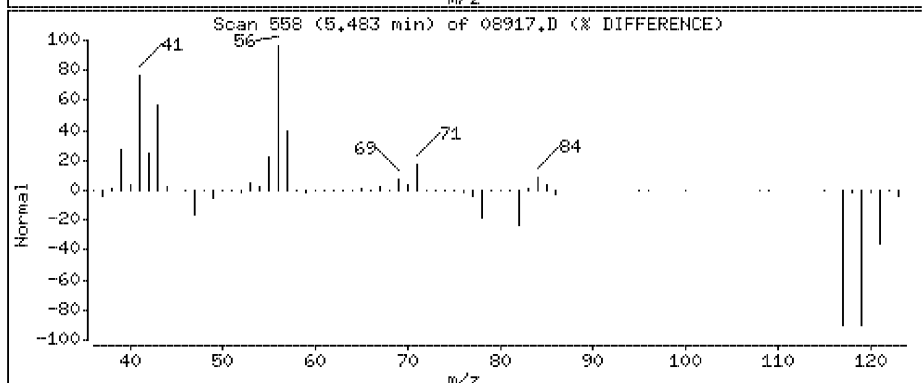
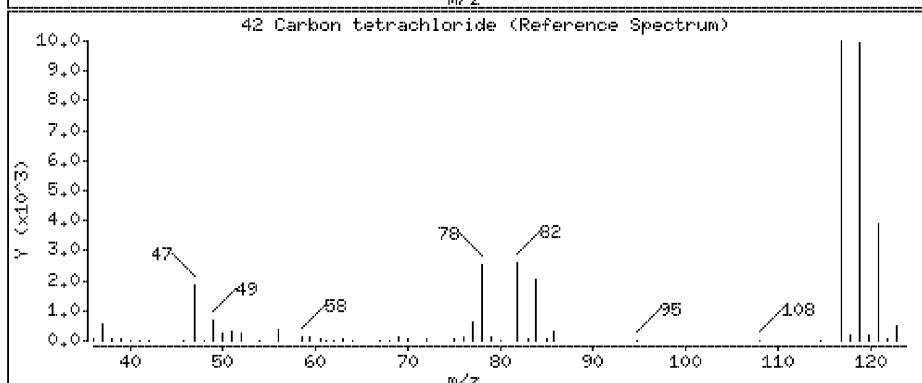
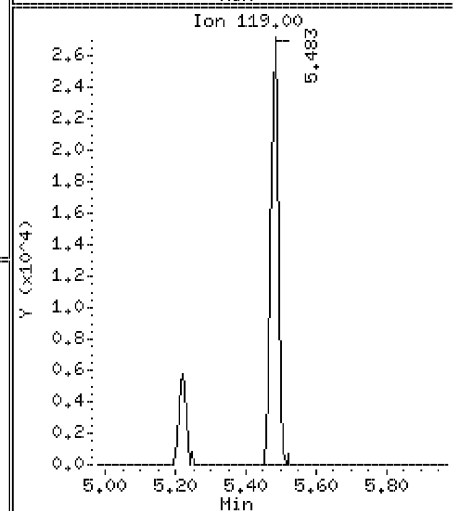
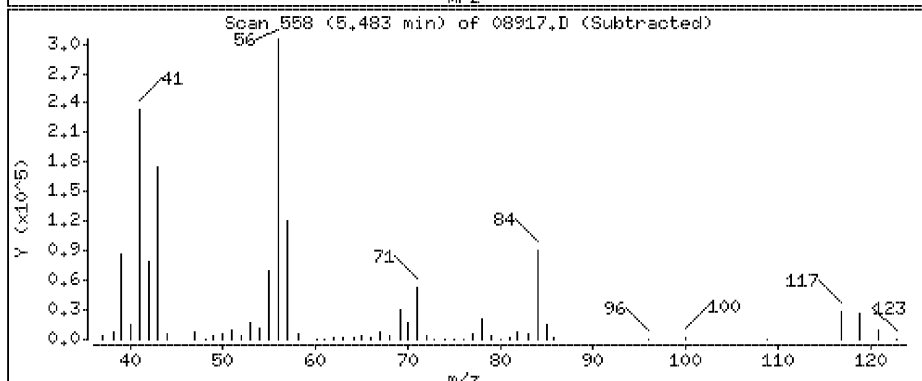
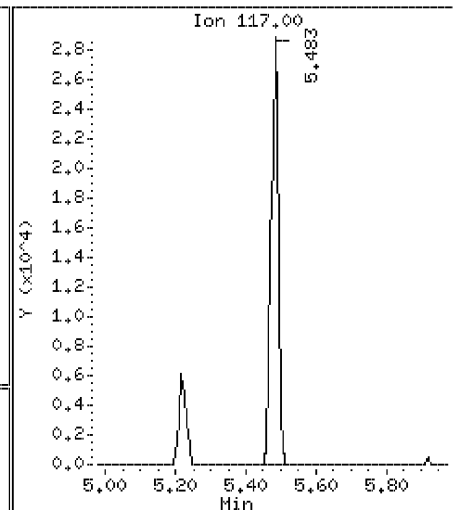
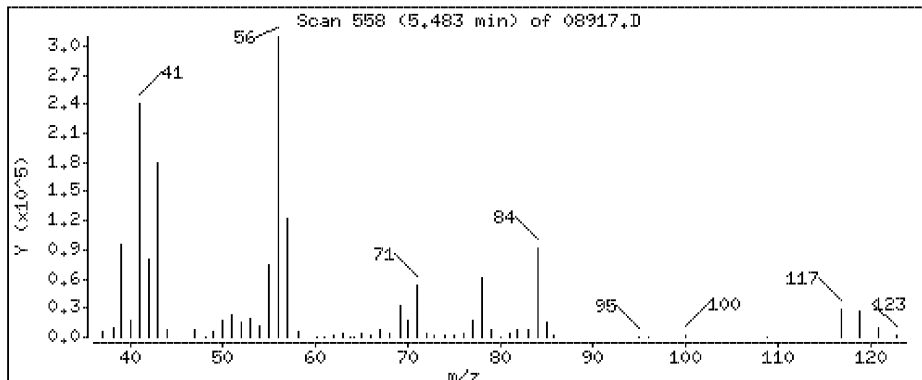




41 Benzene

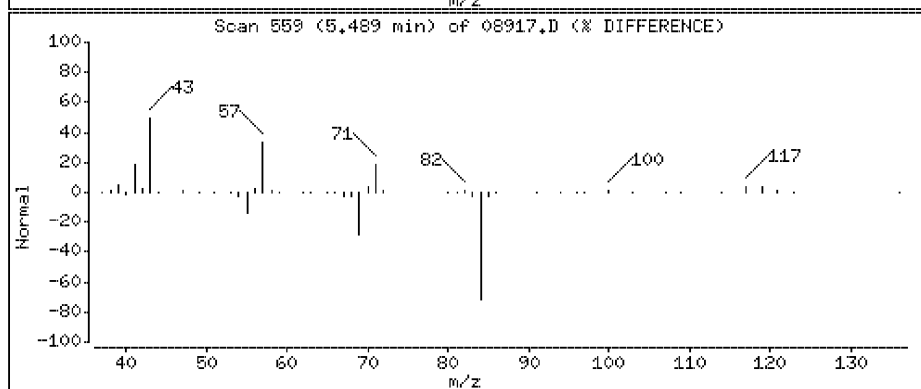
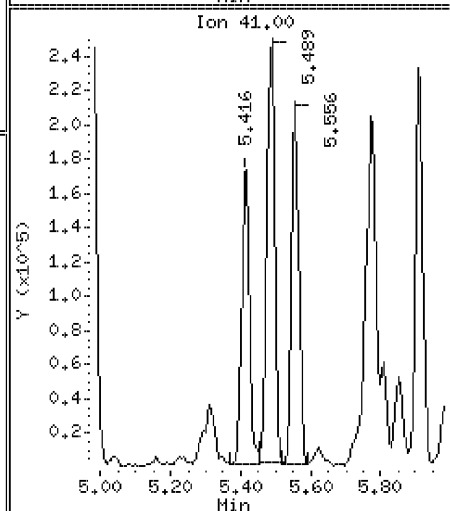
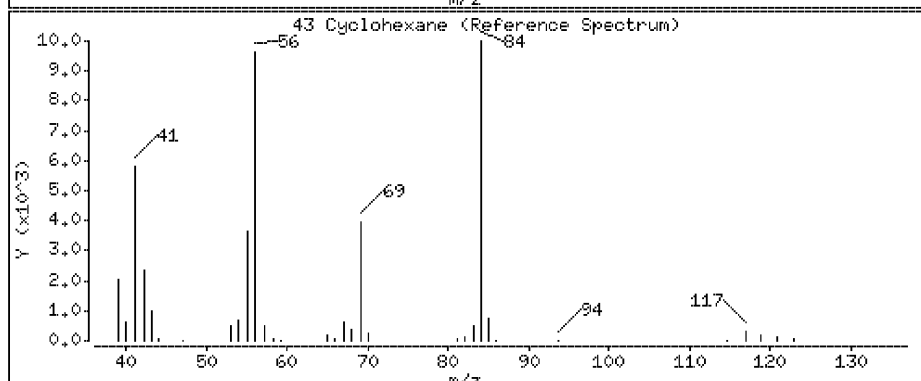
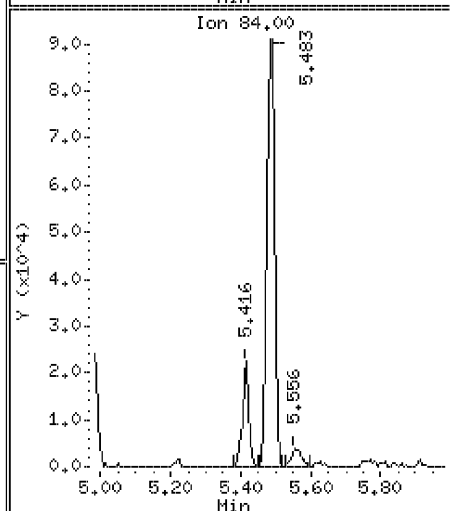
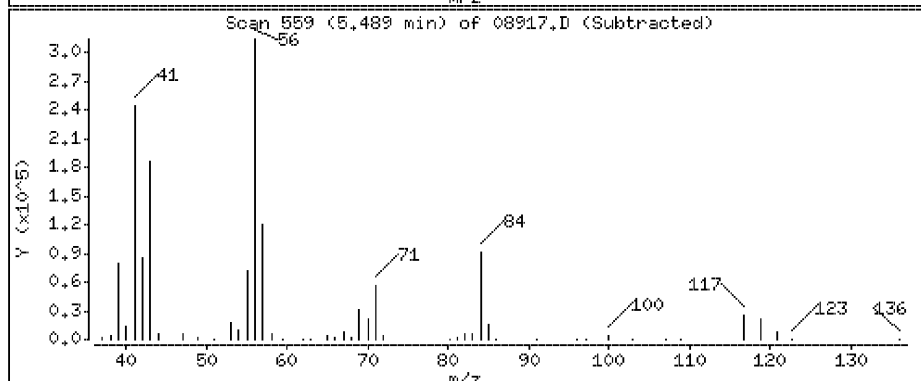
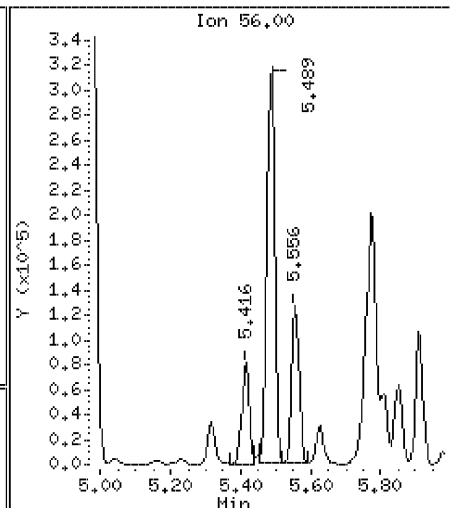
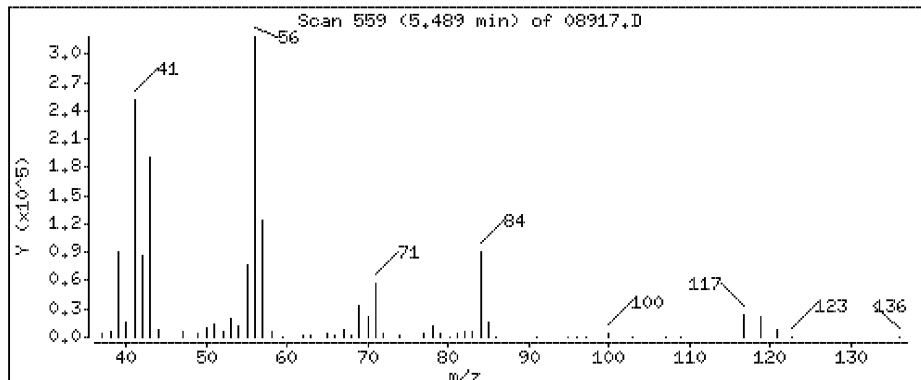
Concentration: 10,1 ppbv





43 Cyclohexane

Concentration: 10,3 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

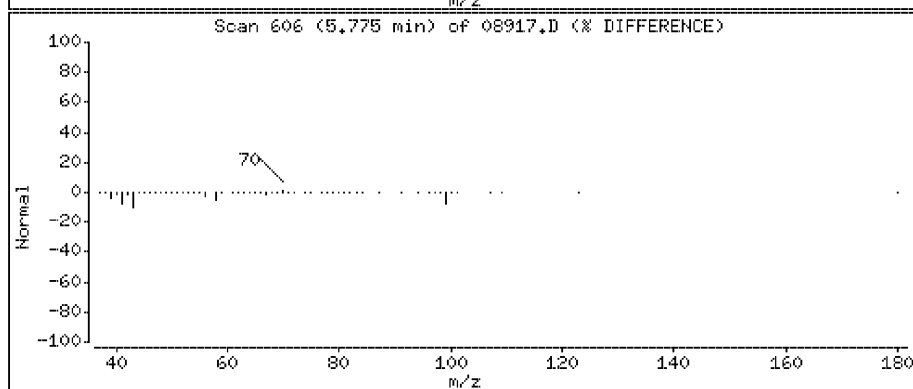
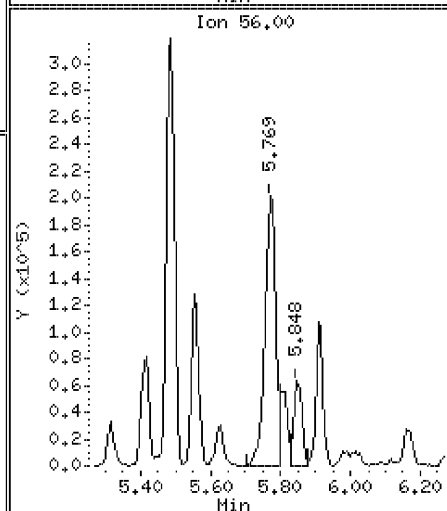
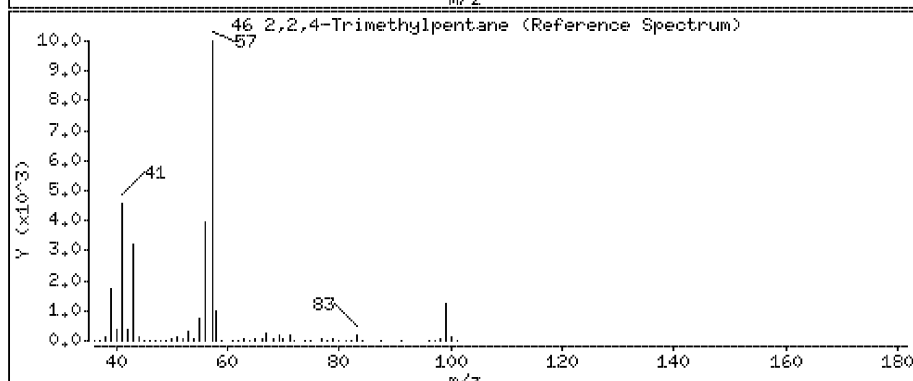
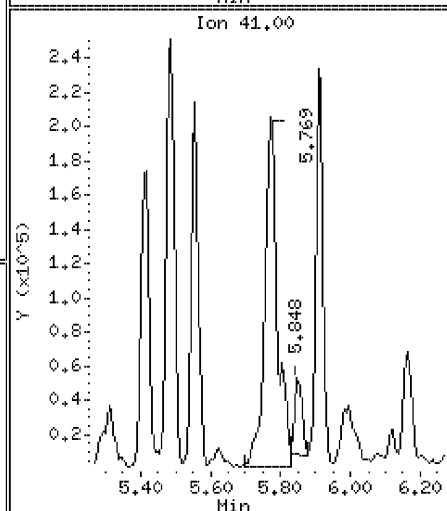
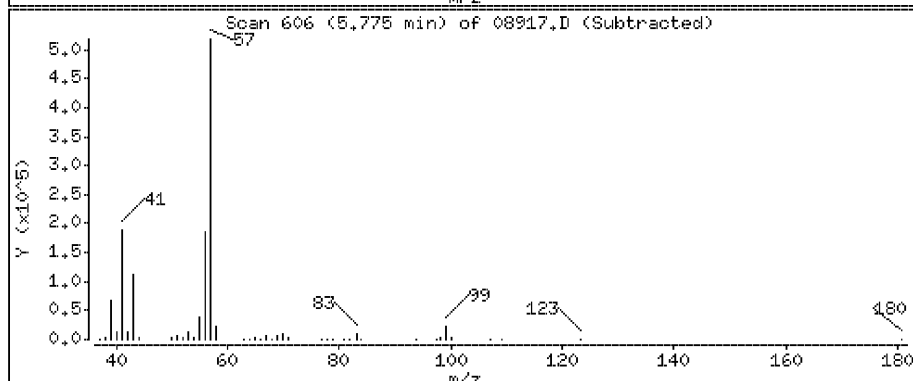
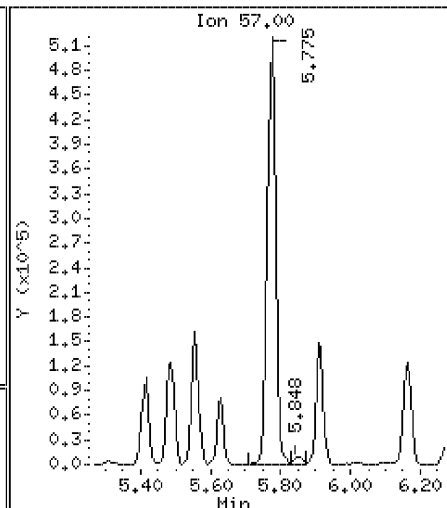
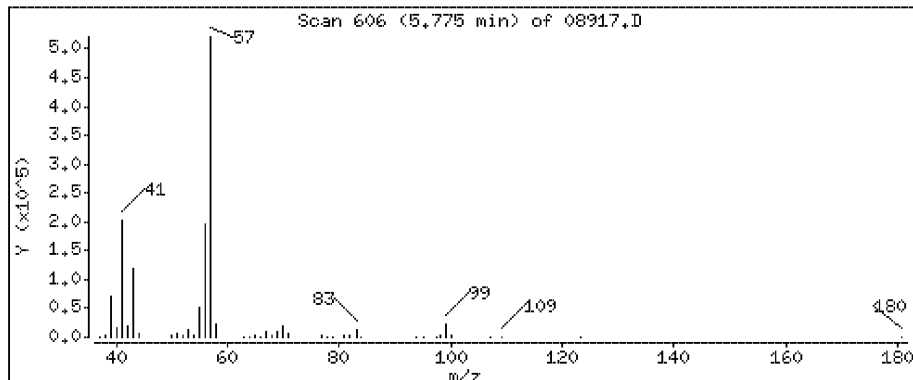
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

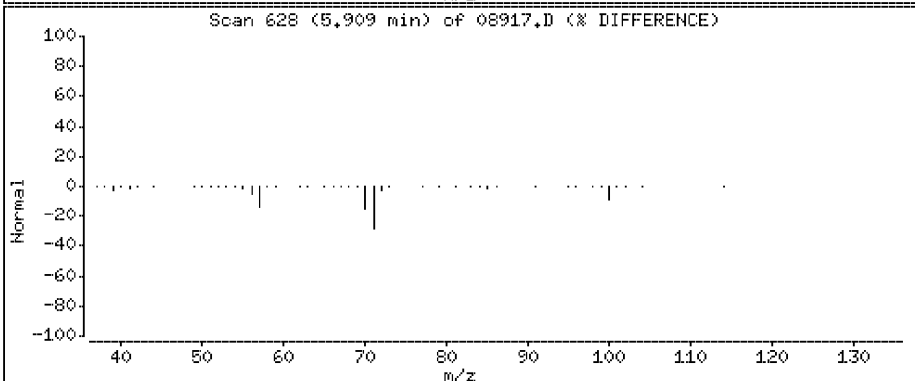
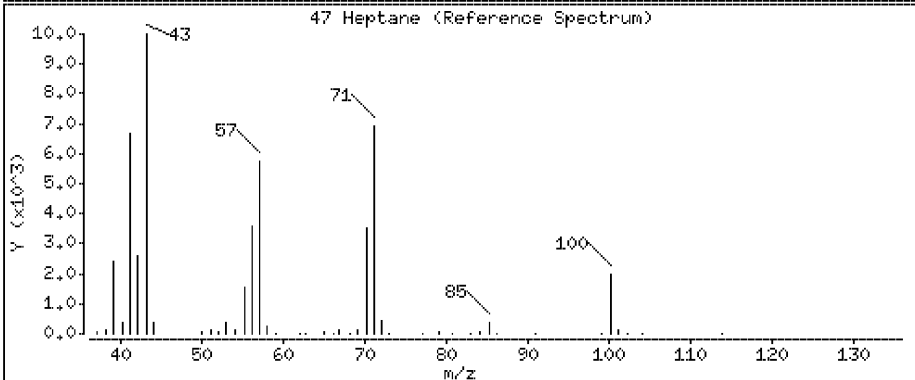
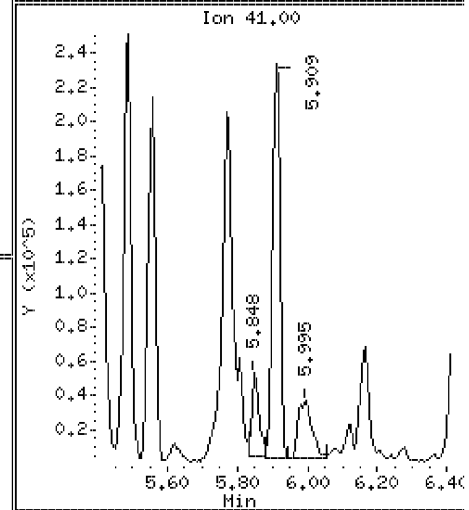
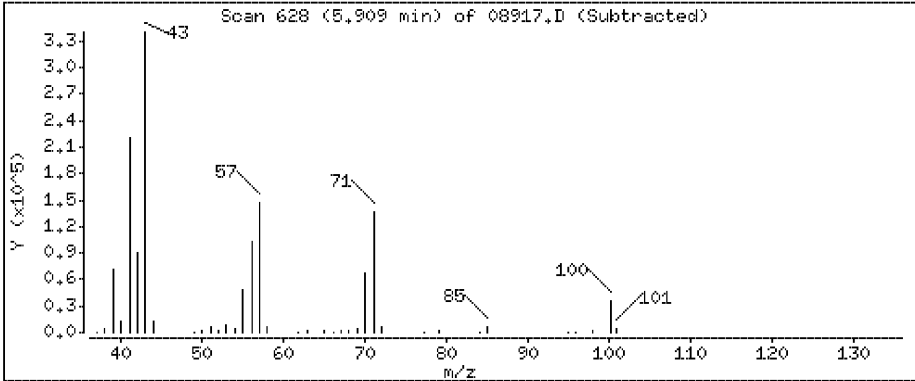
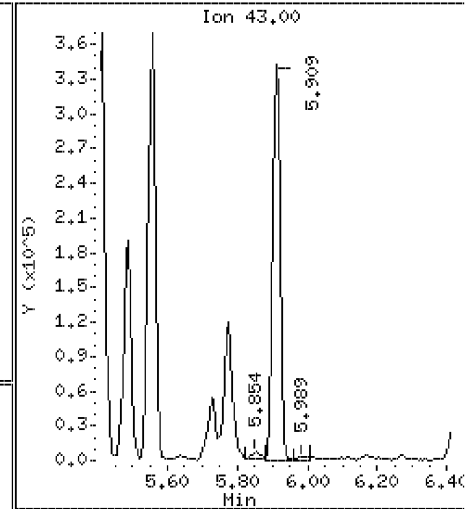
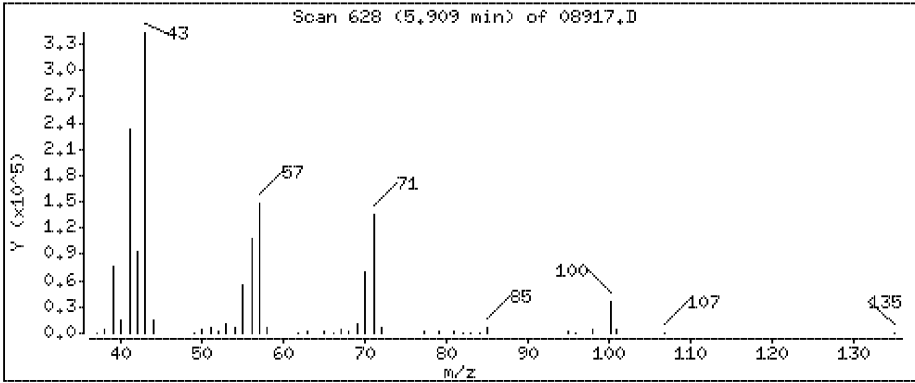
46 2,2,4-Trimethylpentane

Concentration: 6.14 ppbv



47 Heptane

Concentration: 7.34 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

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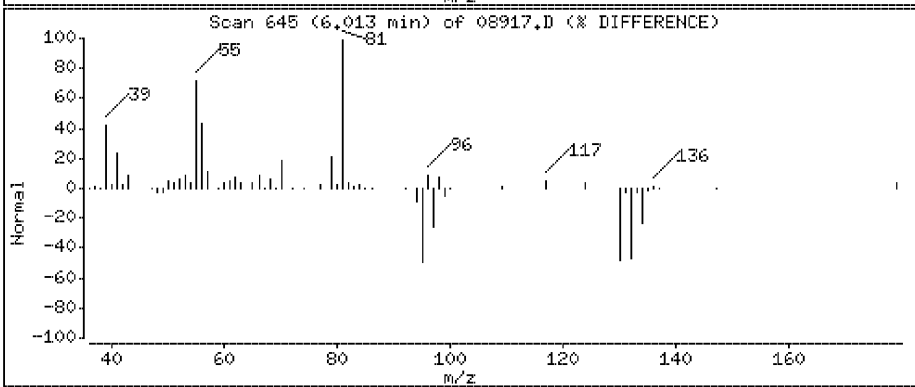
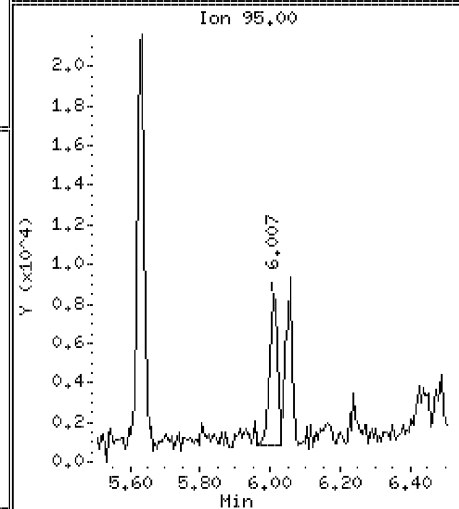
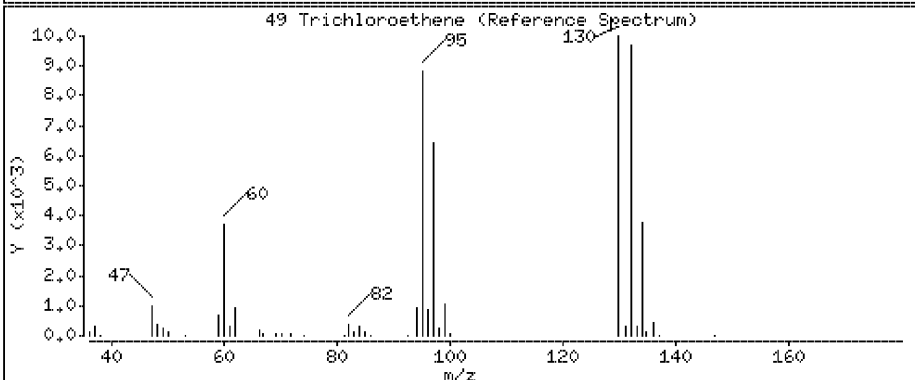
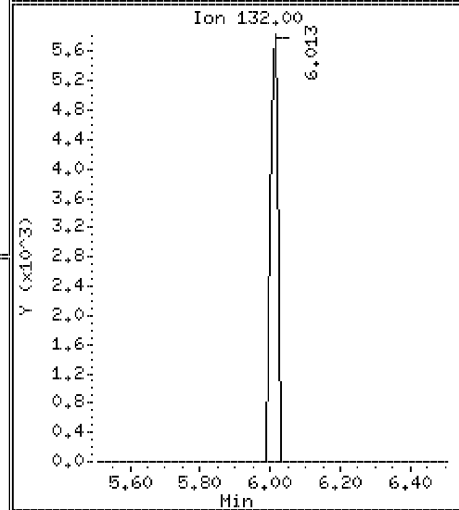
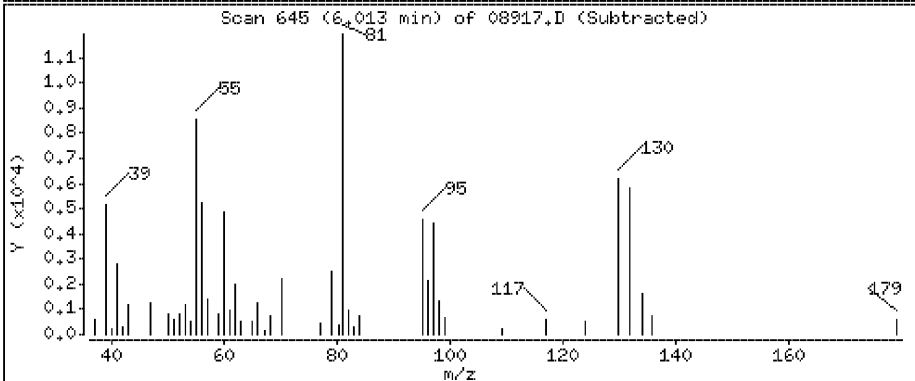
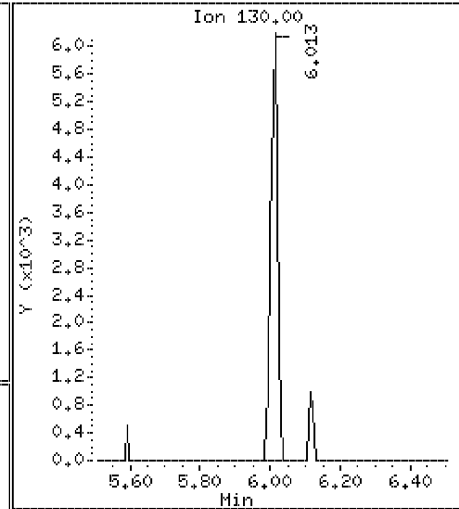
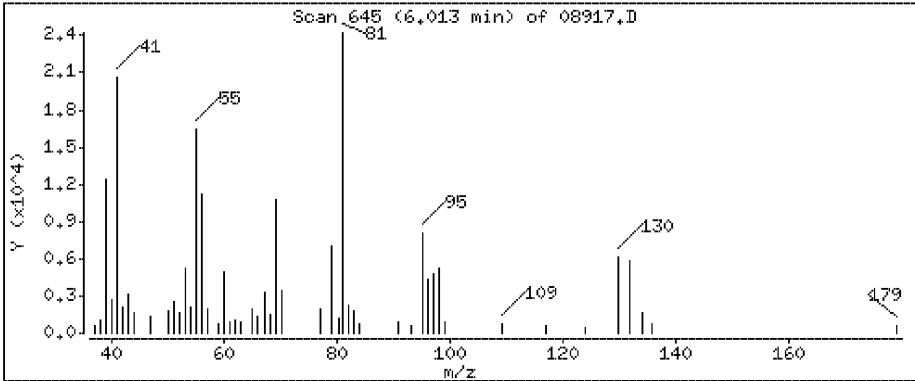
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

49 Trichloroethene

Concentration: 0.260 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

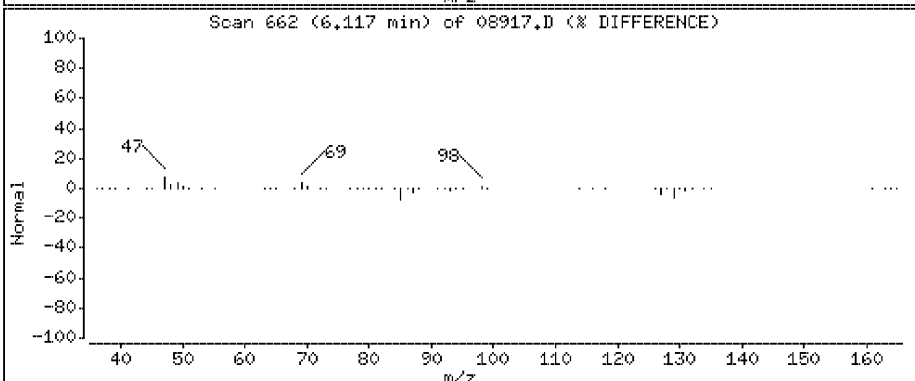
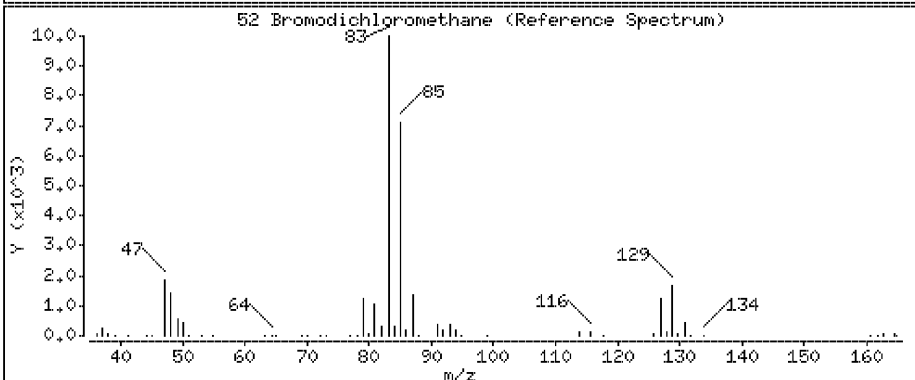
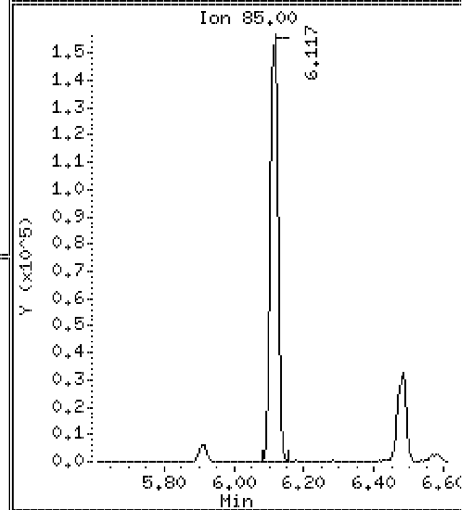
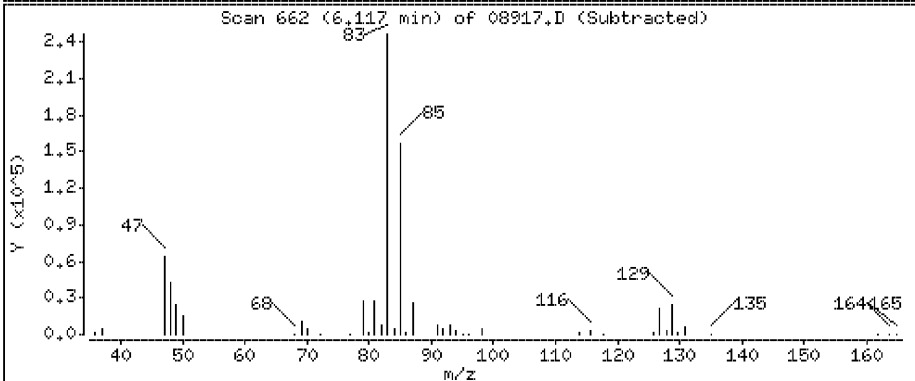
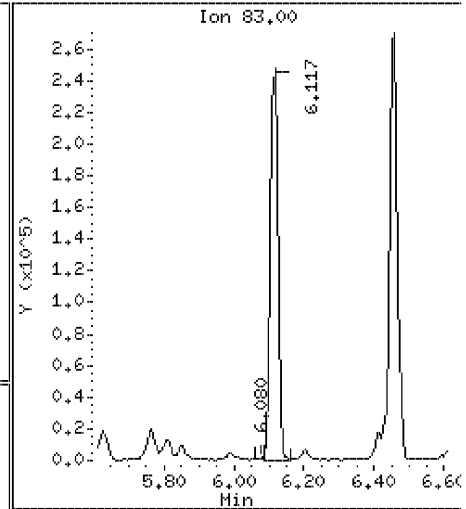
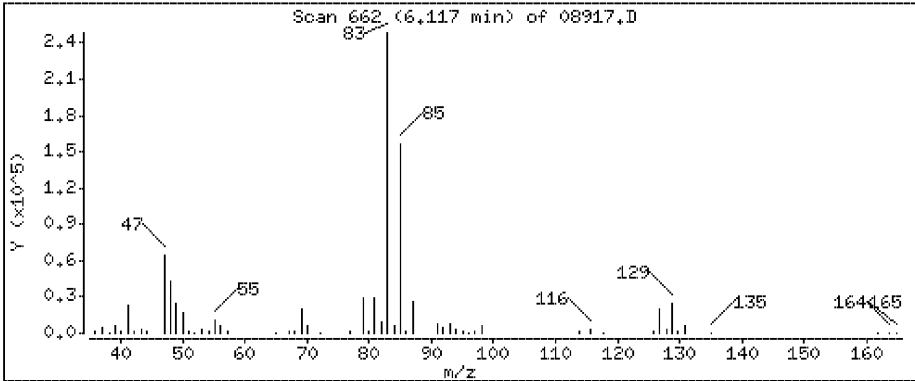
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

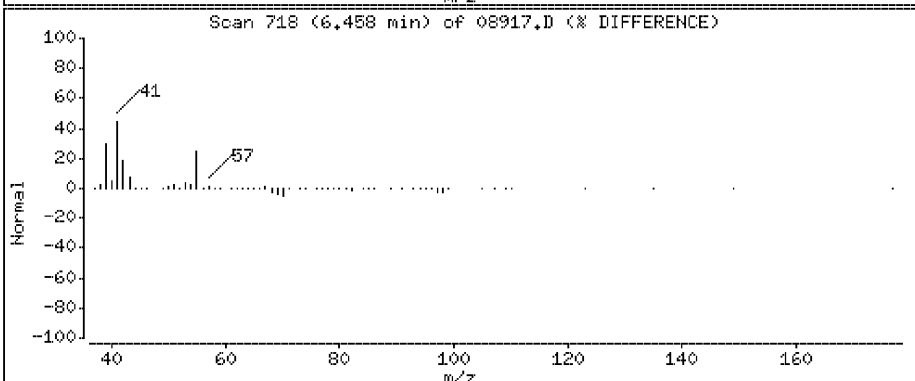
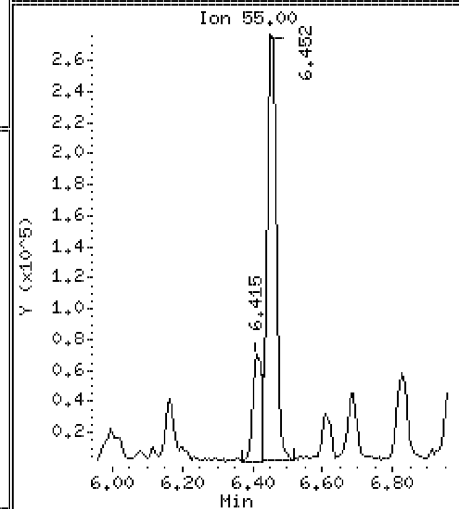
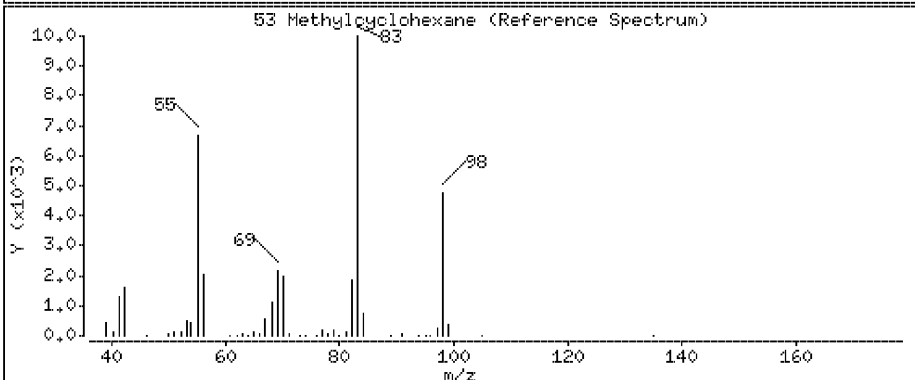
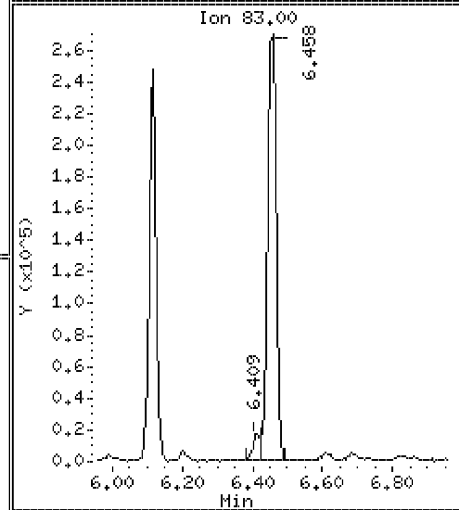
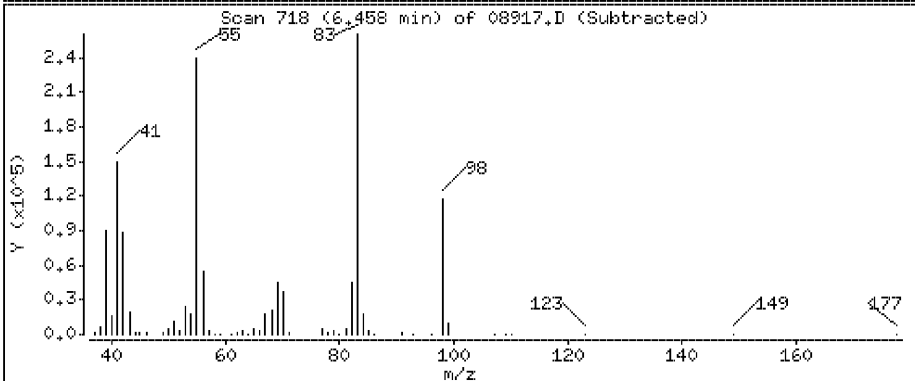
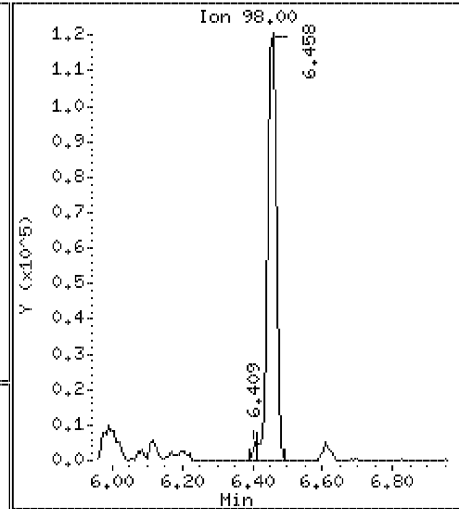
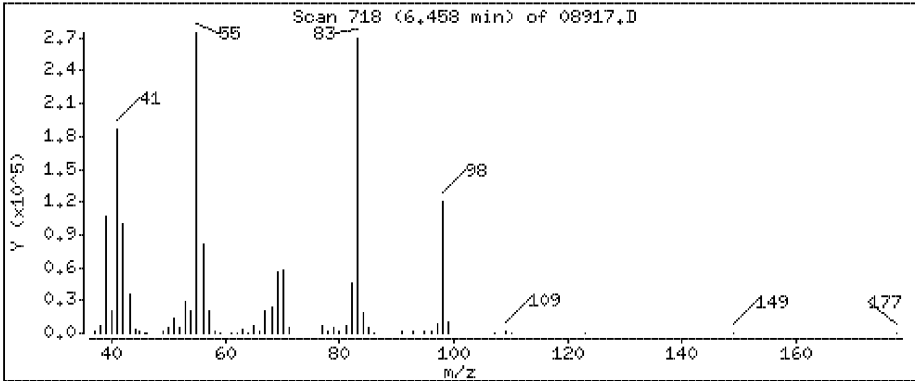
52 Bromodichloromethane

Concentration: 6.14 ppbv



53 Methylcyclohexane

Concentration: 10.2 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

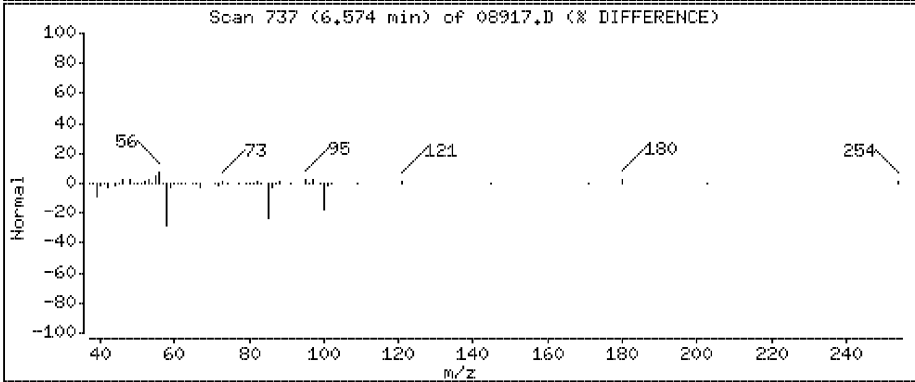
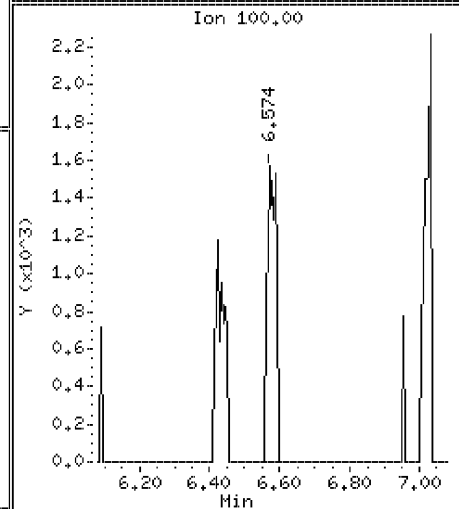
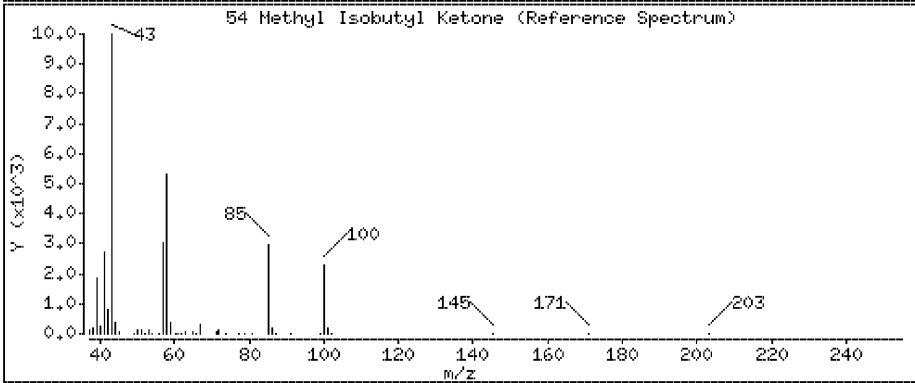
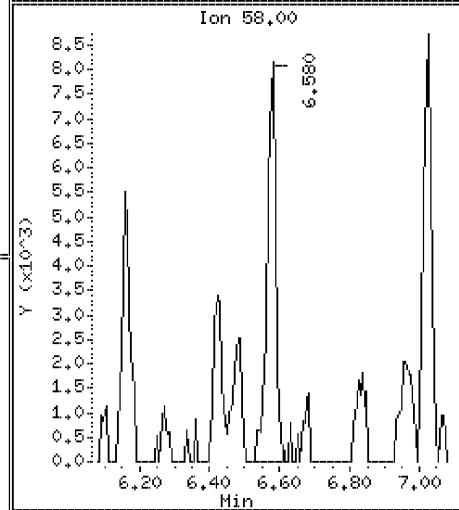
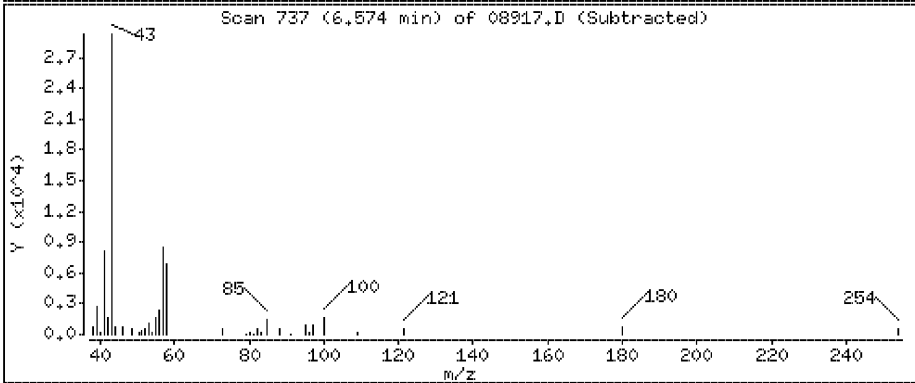
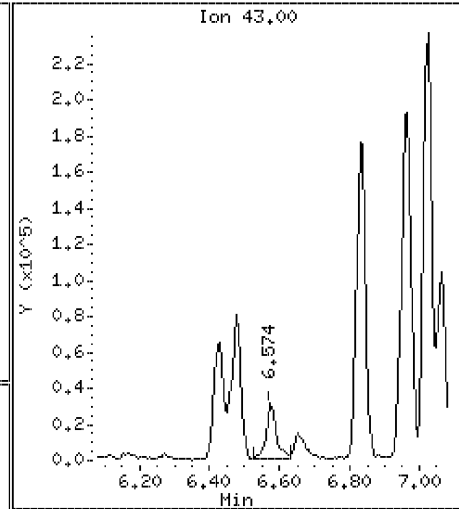
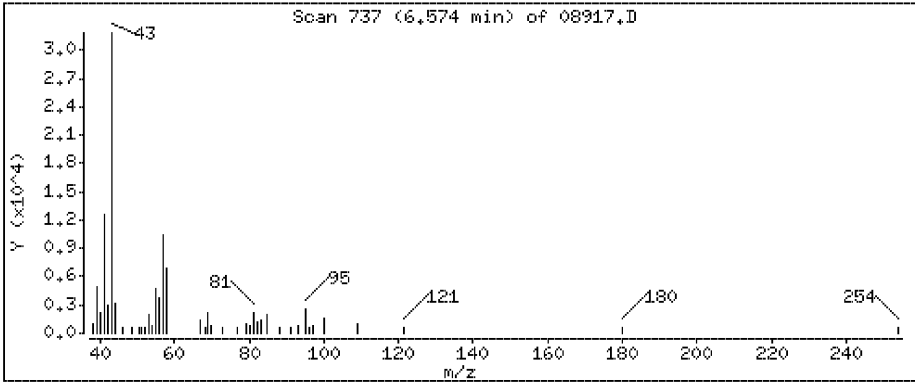
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

54 Methyl Isobutyl Ketone

Concentration: 0,660 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

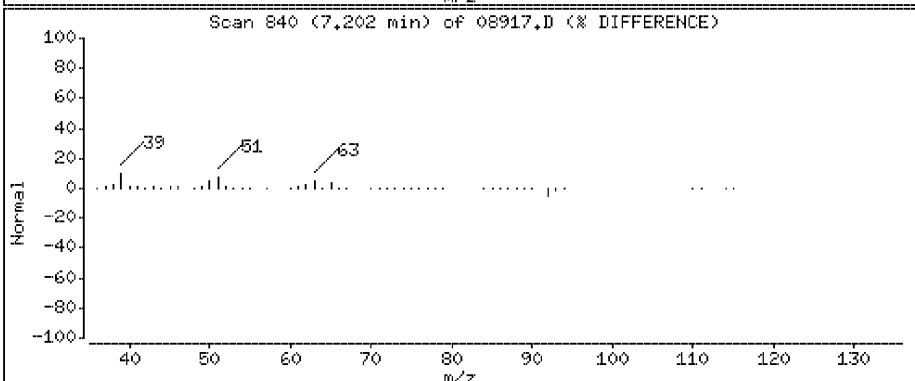
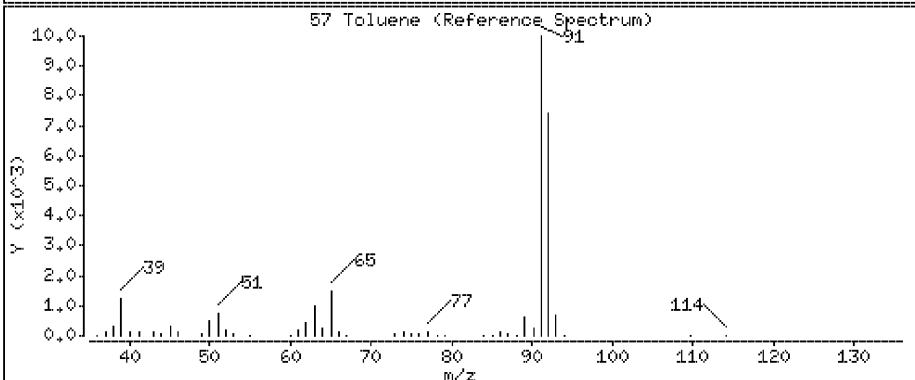
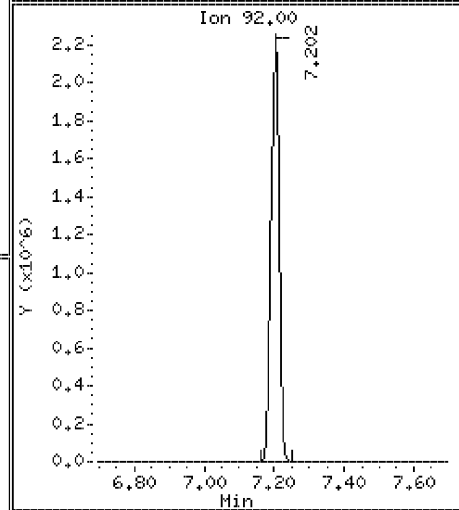
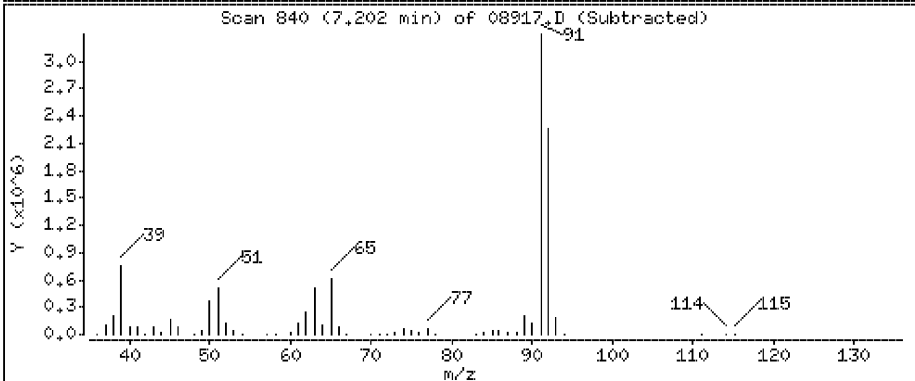
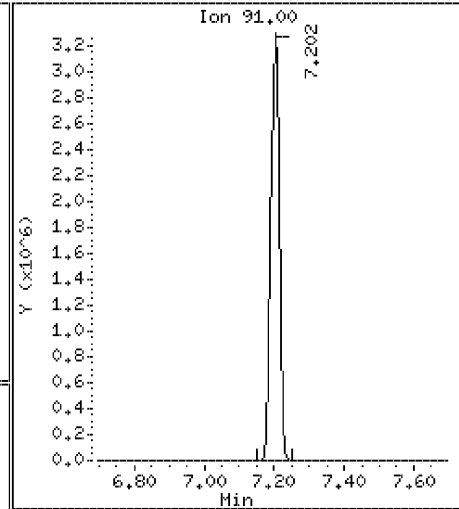
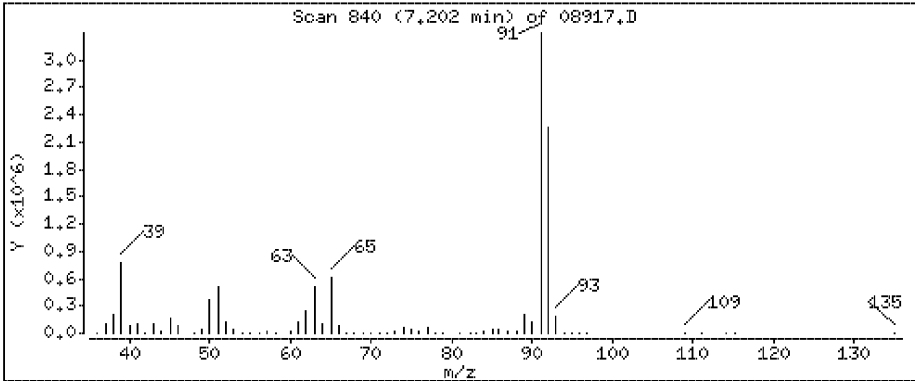
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

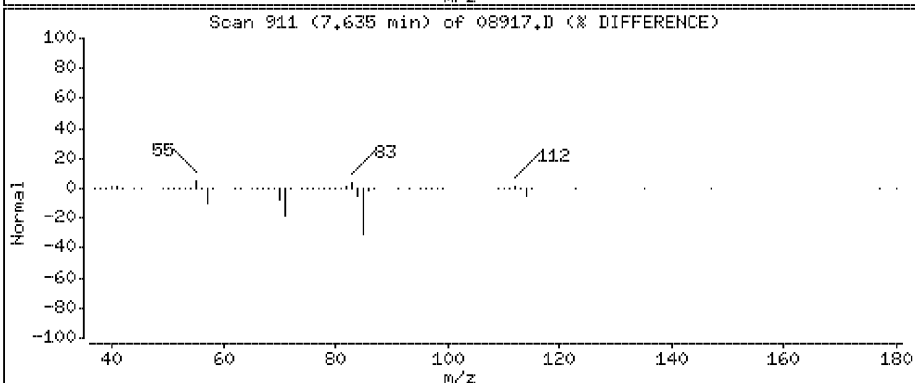
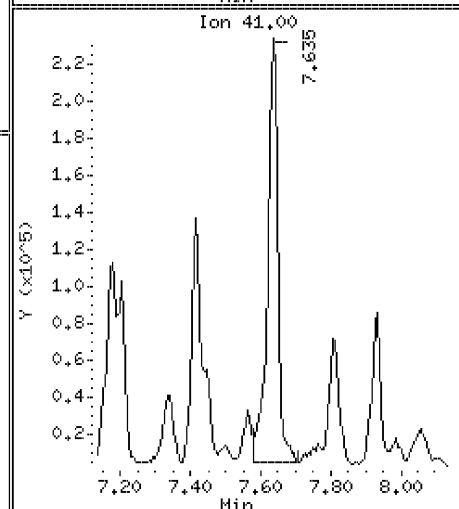
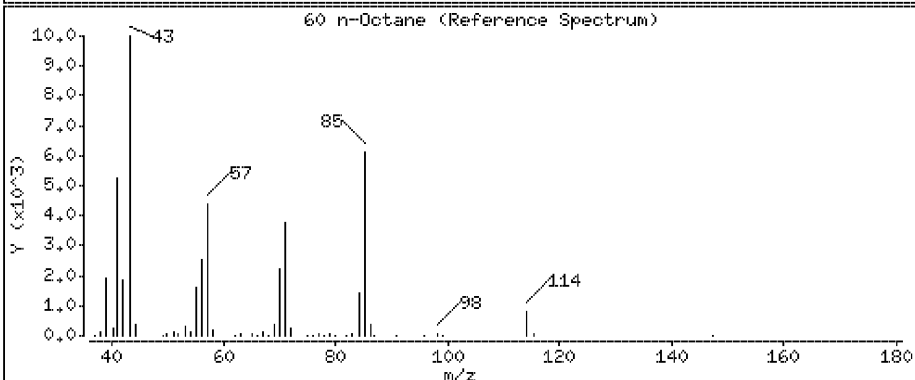
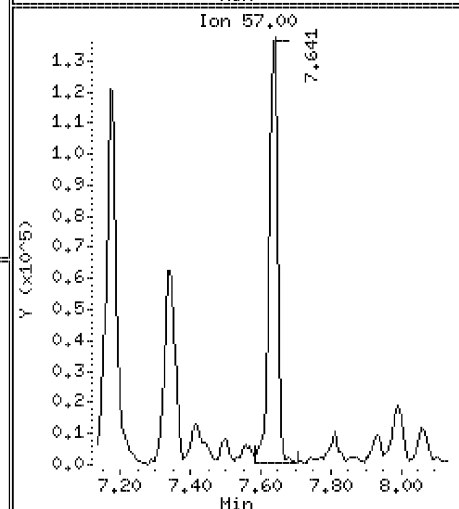
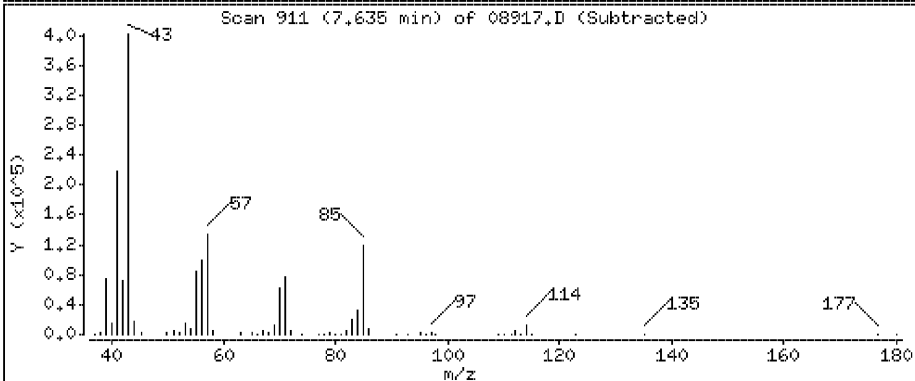
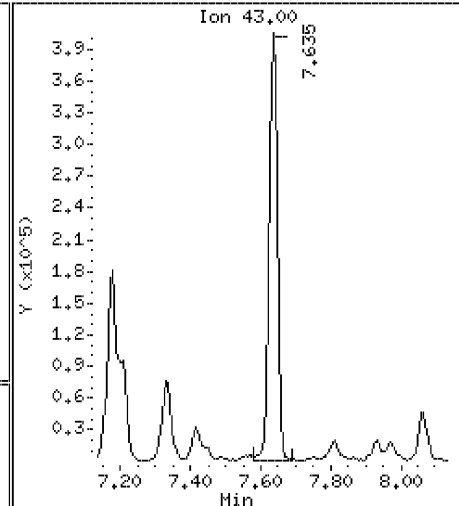
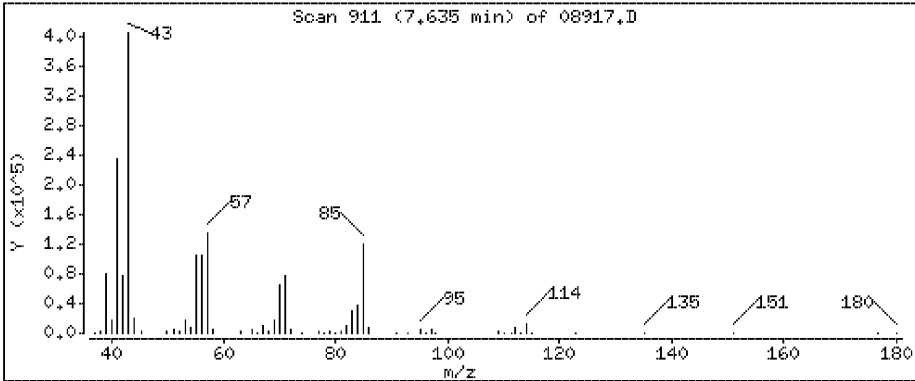
57 Toluene

Concentration: 64.4 ppbv



60 n-Octane

Concentration: 7.40 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

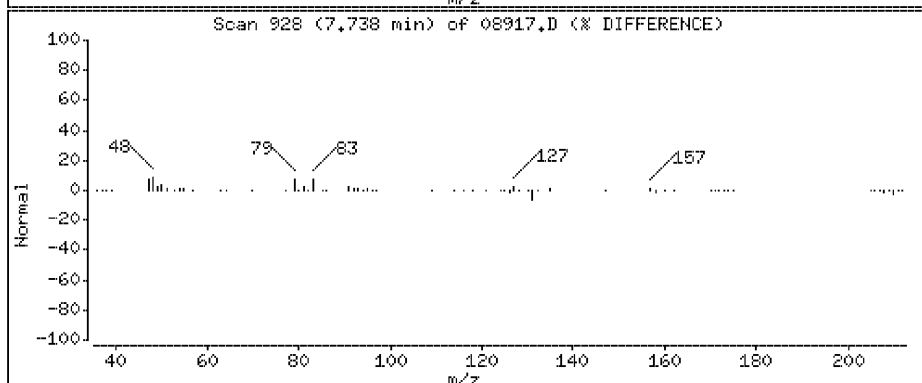
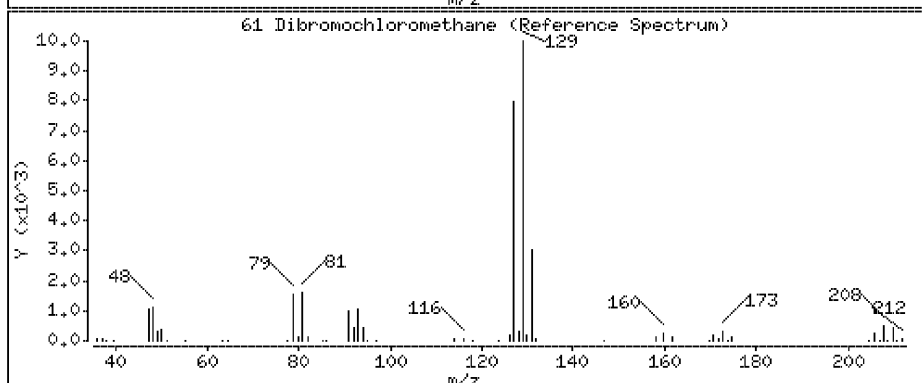
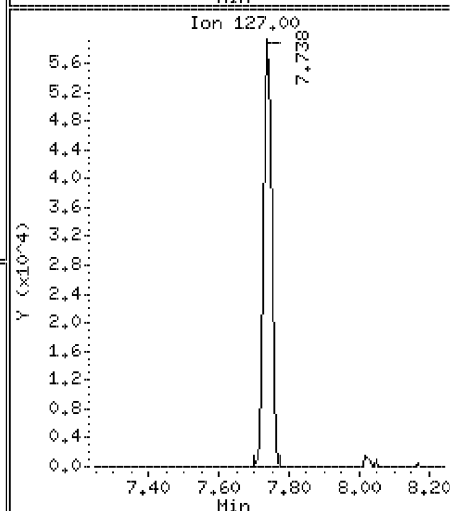
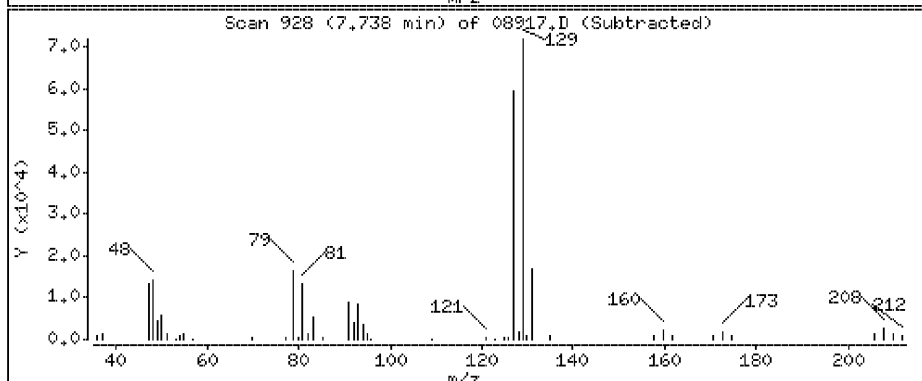
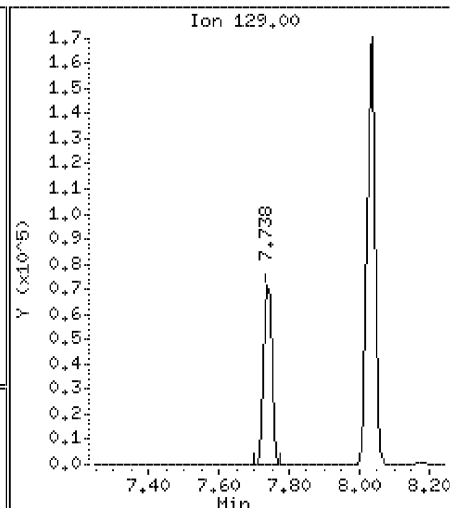
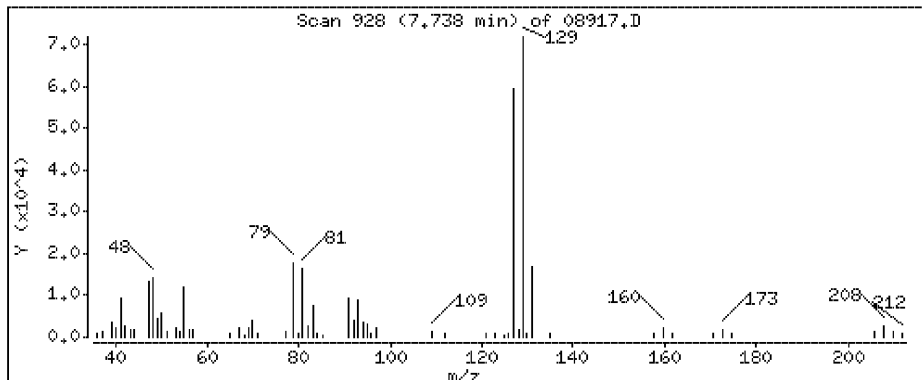
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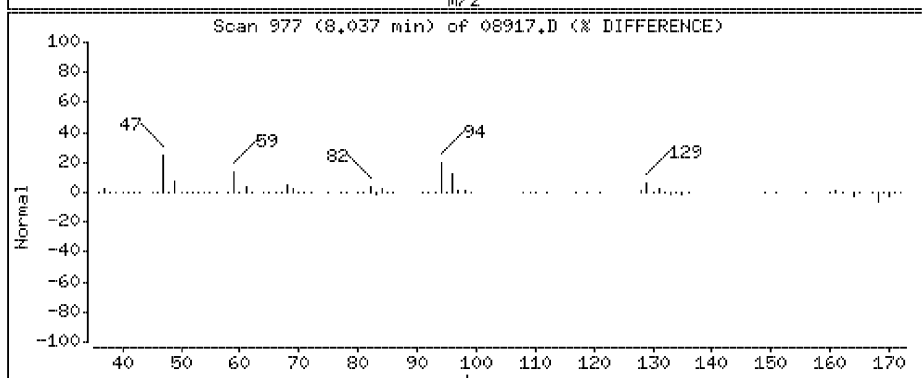
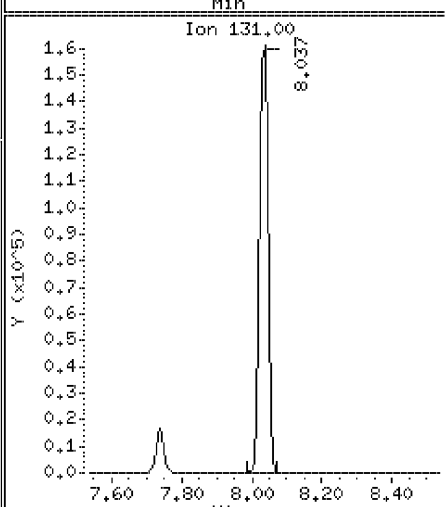
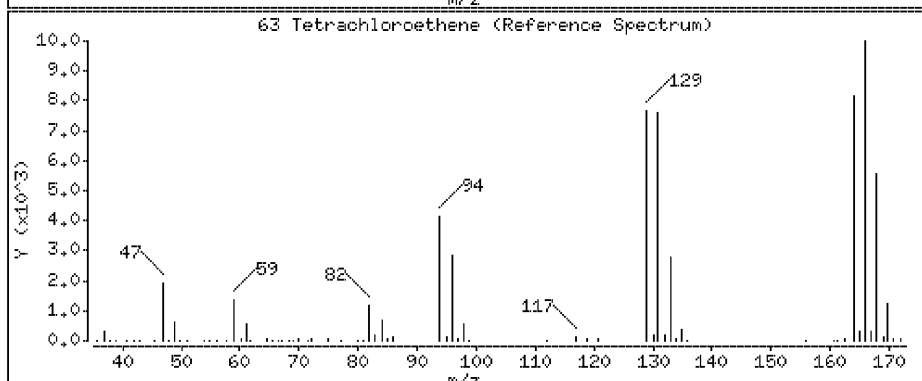
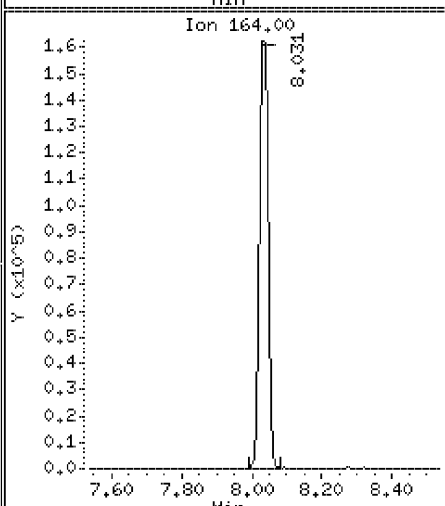
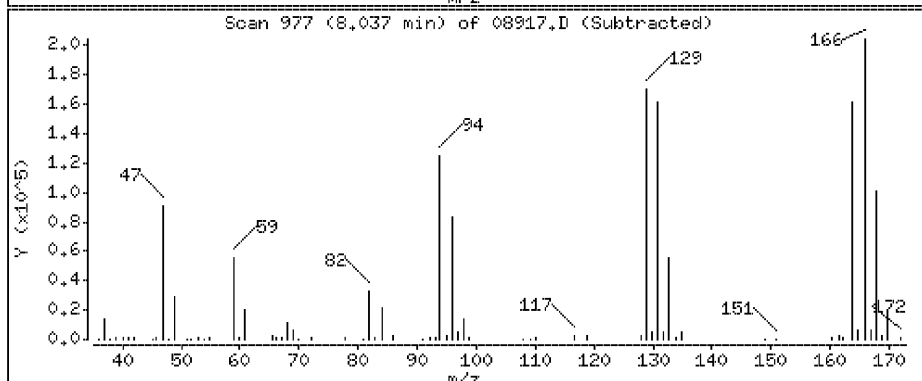
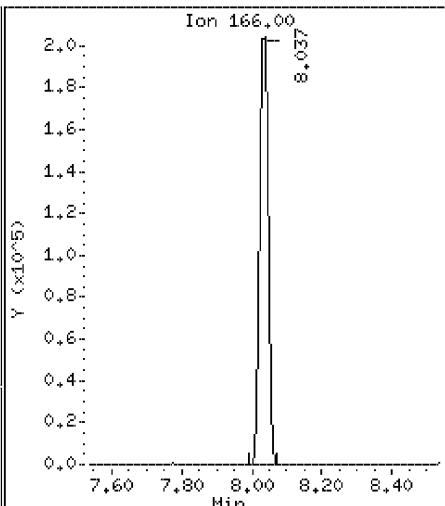
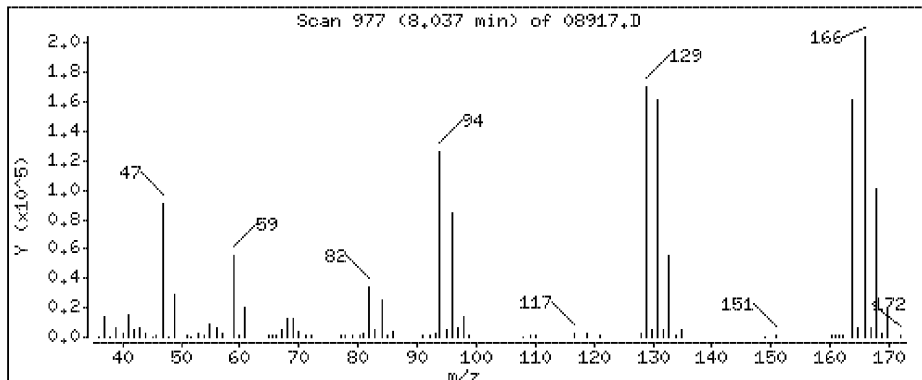
Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

61 Dibromochloromethane

Concentration: 2.61 ppbv





Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

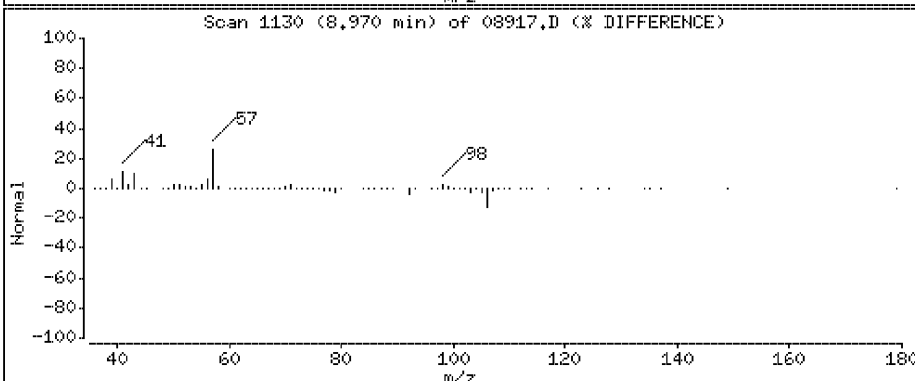
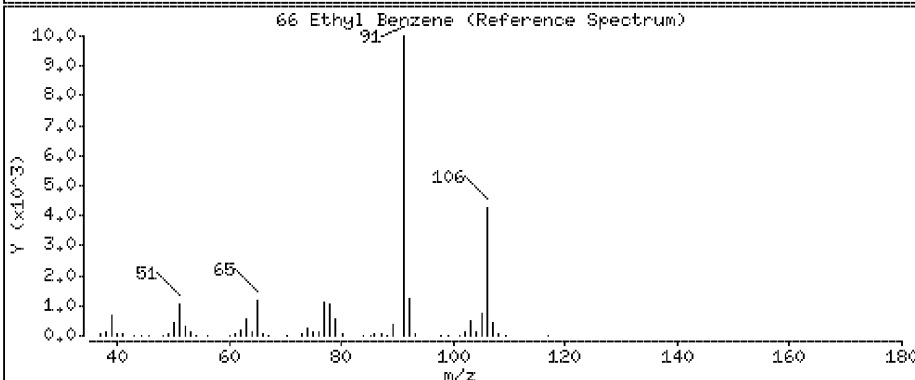
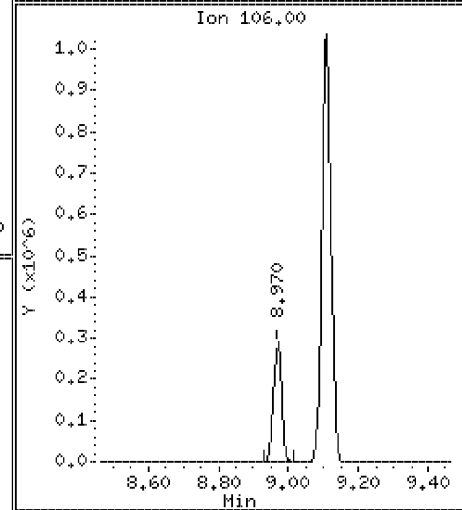
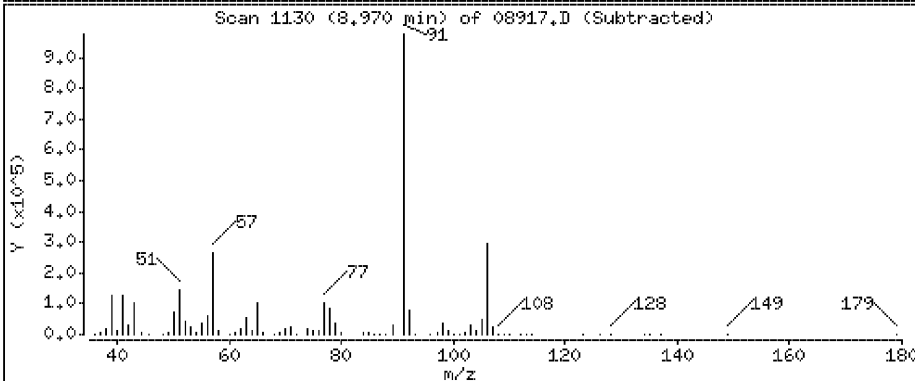
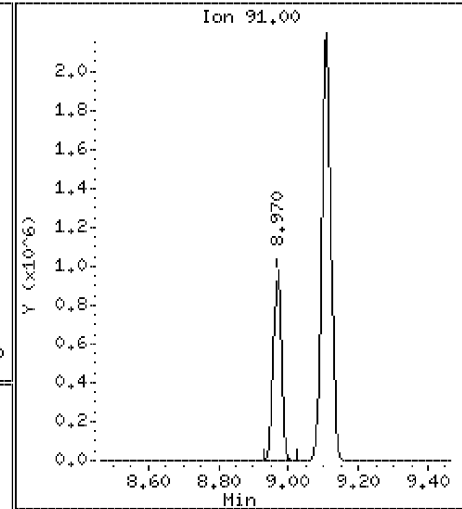
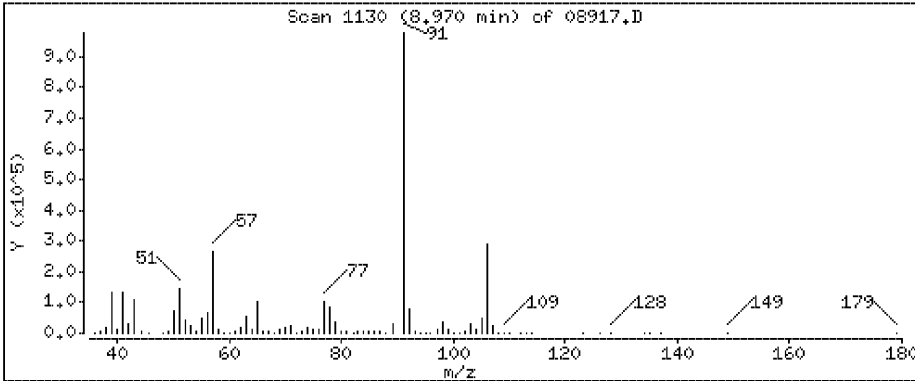
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

66 Ethyl Benzene

Concentration: 14.0 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

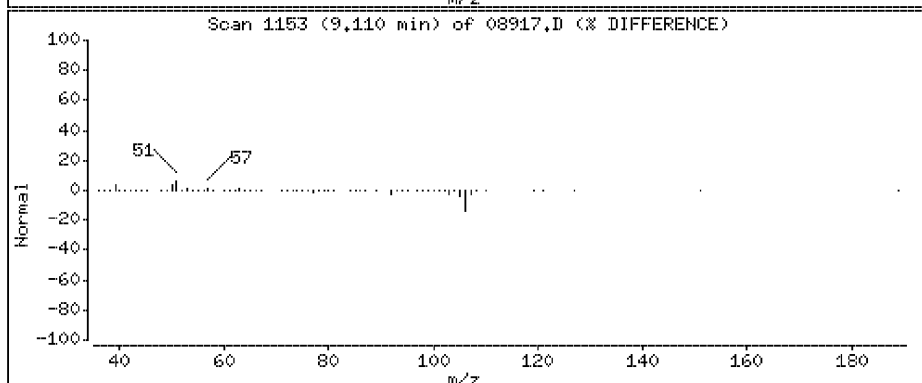
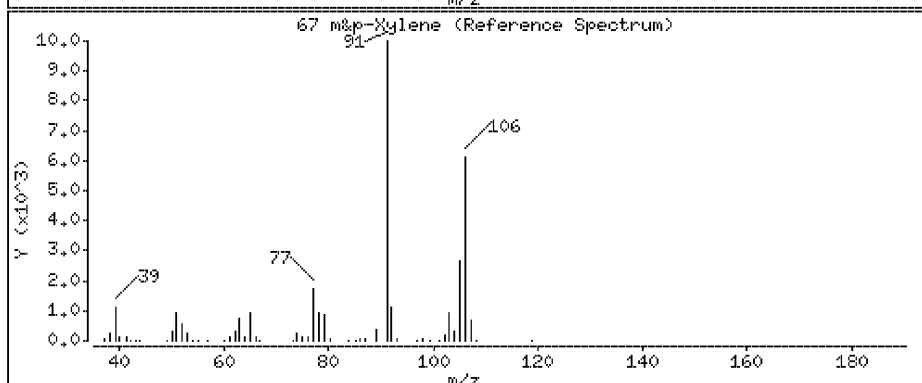
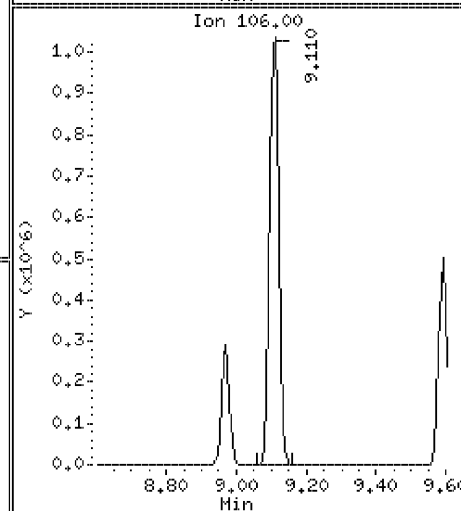
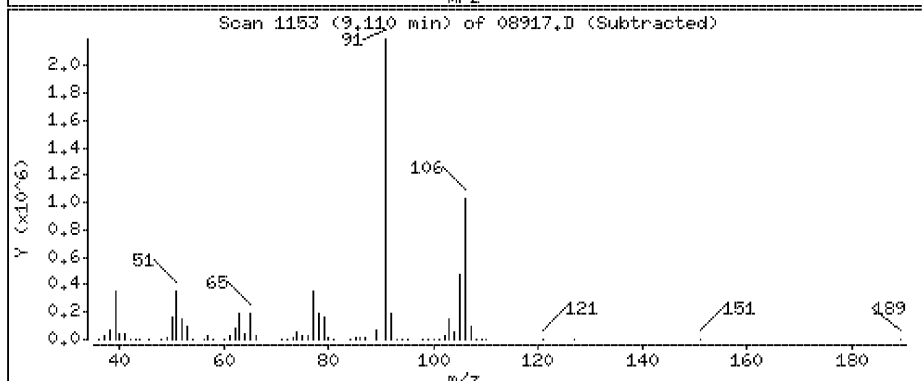
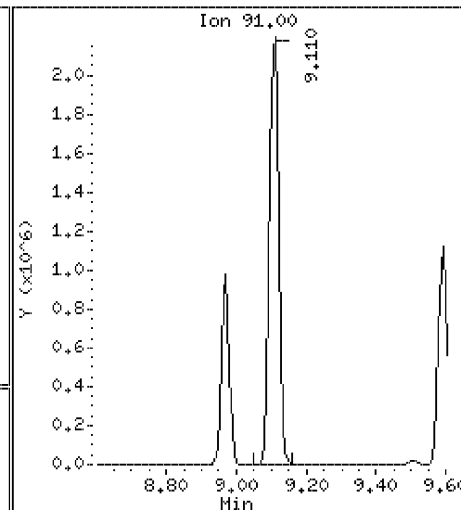
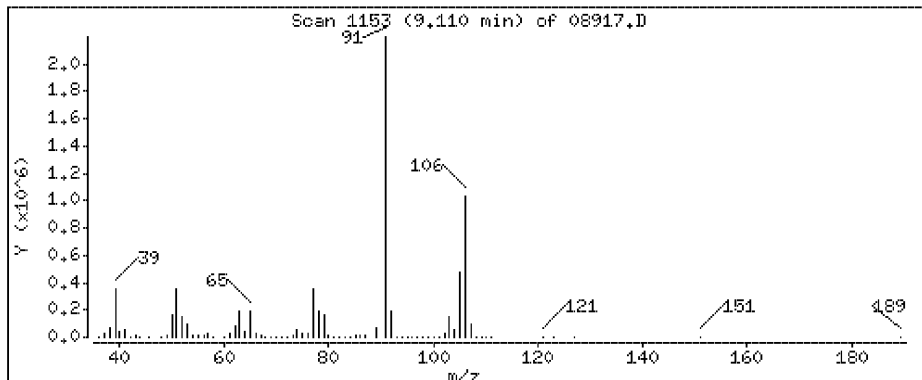
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

67 m&p-Xylene

Concentration: 48,2 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

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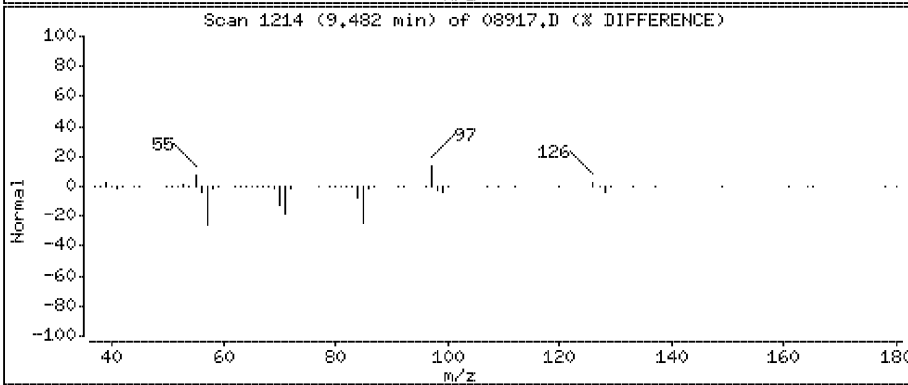
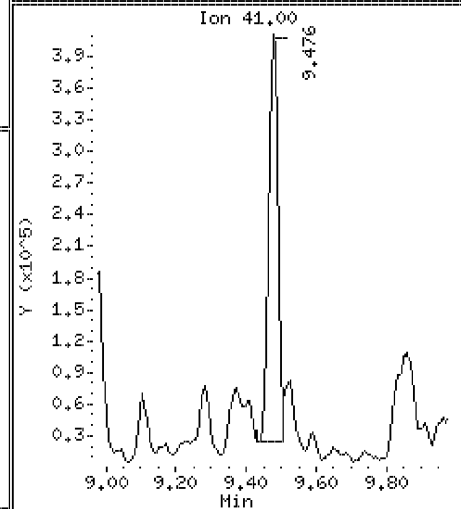
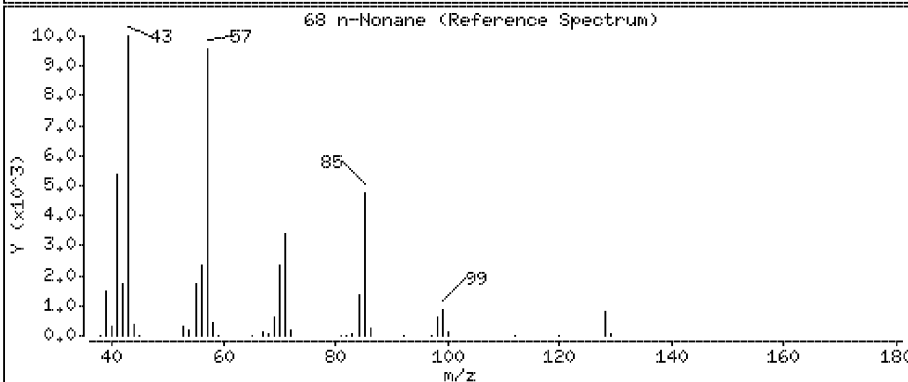
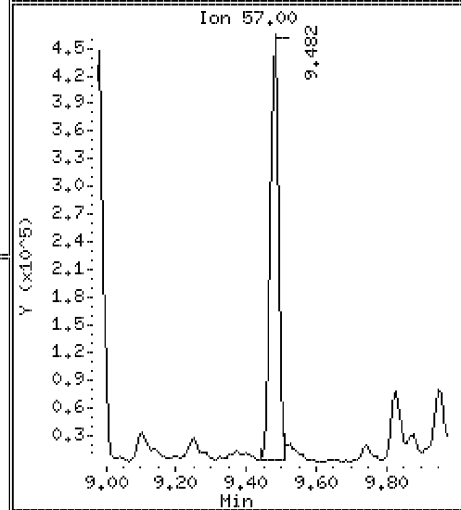
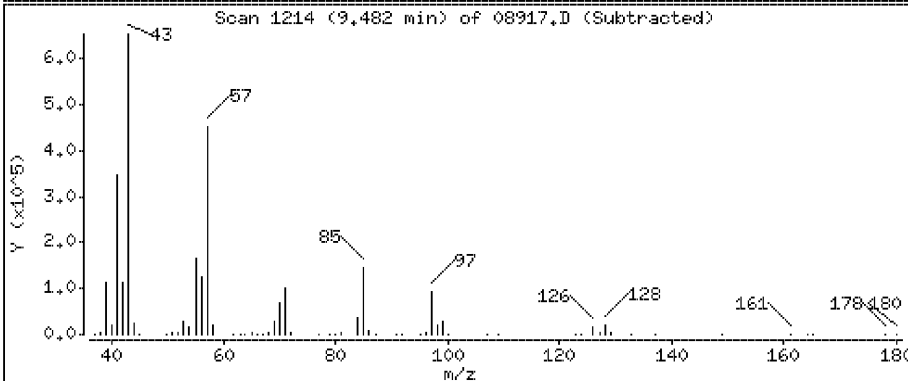
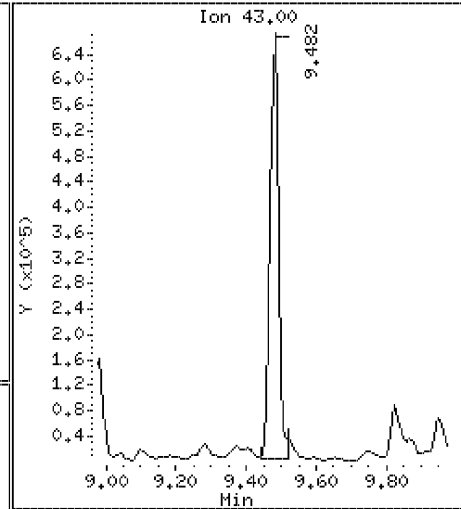
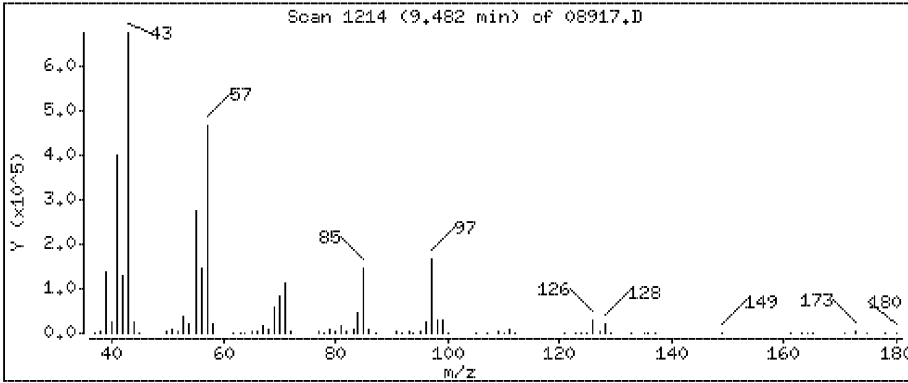
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

68 n-Nonane

Concentration: 13.2 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

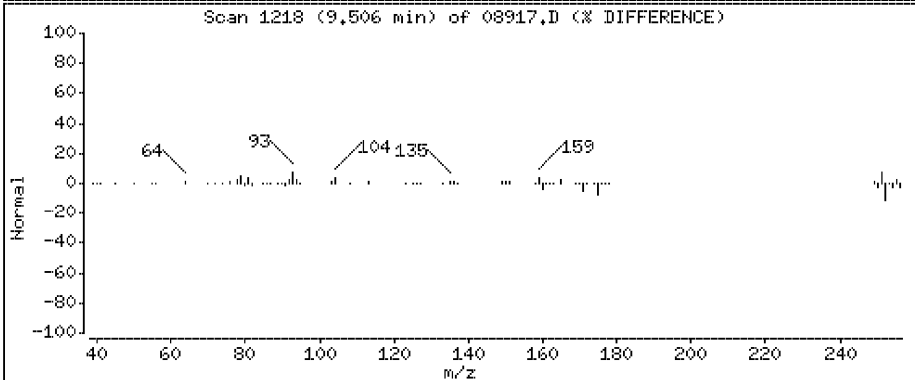
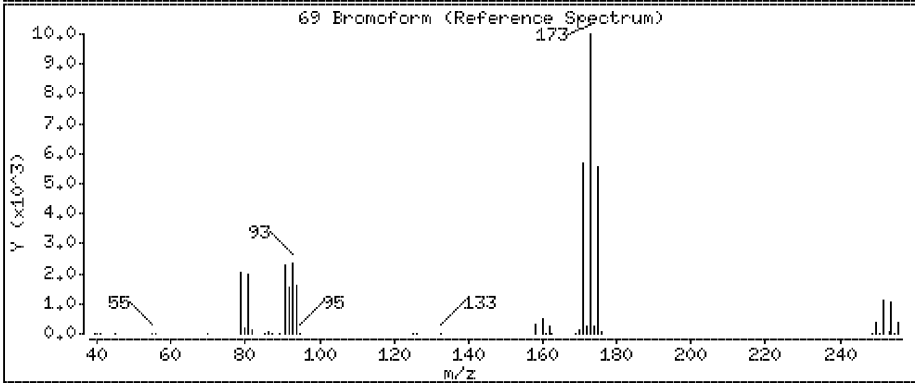
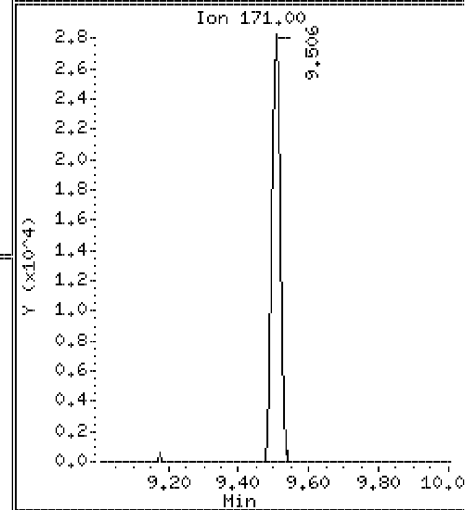
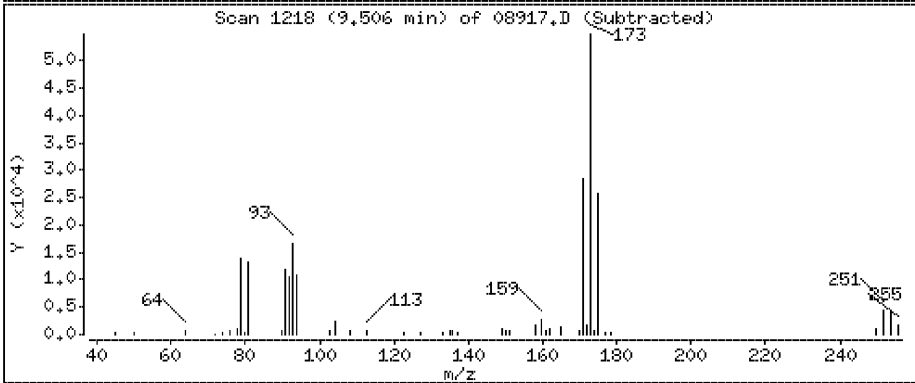
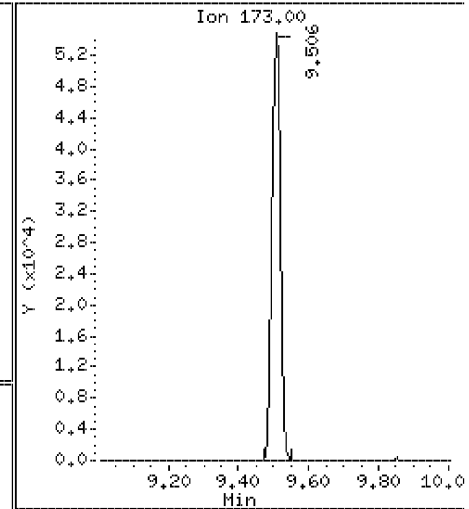
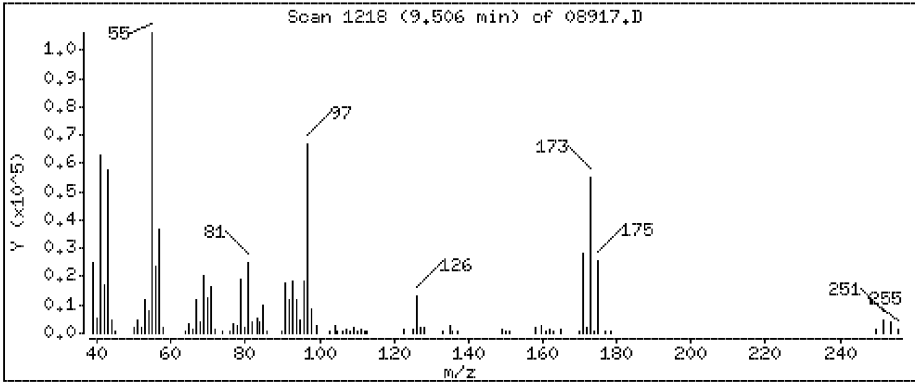
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

69 Bromoform

Concentration: 2.84 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

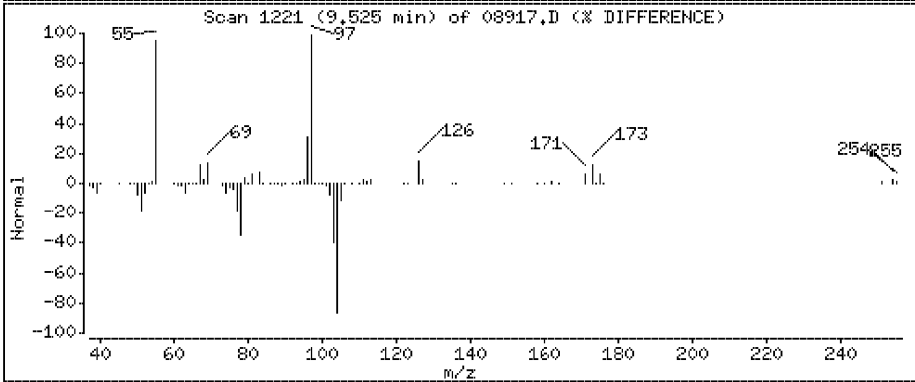
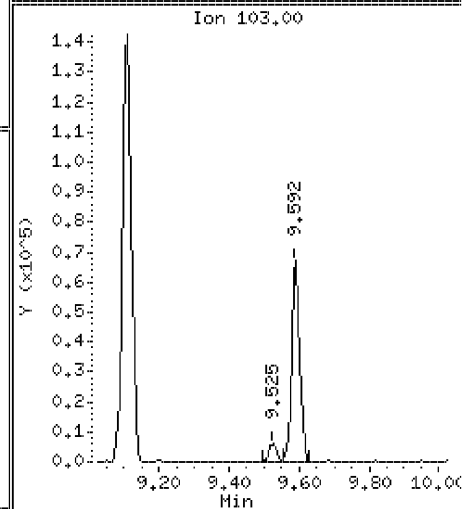
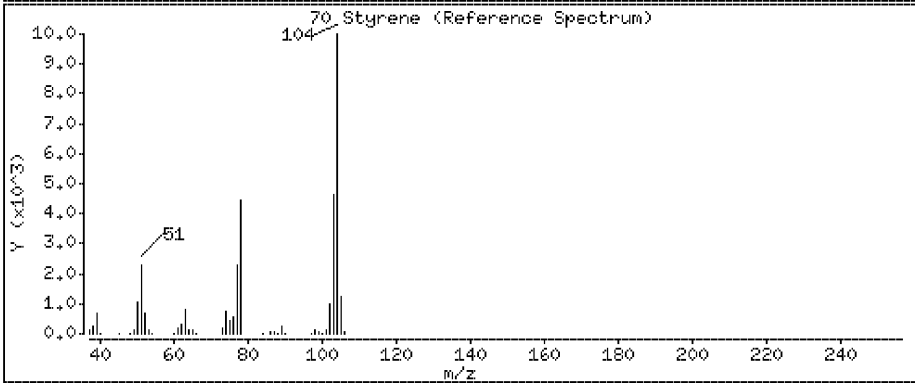
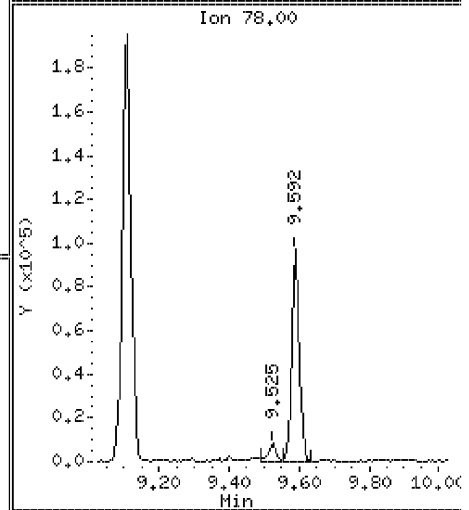
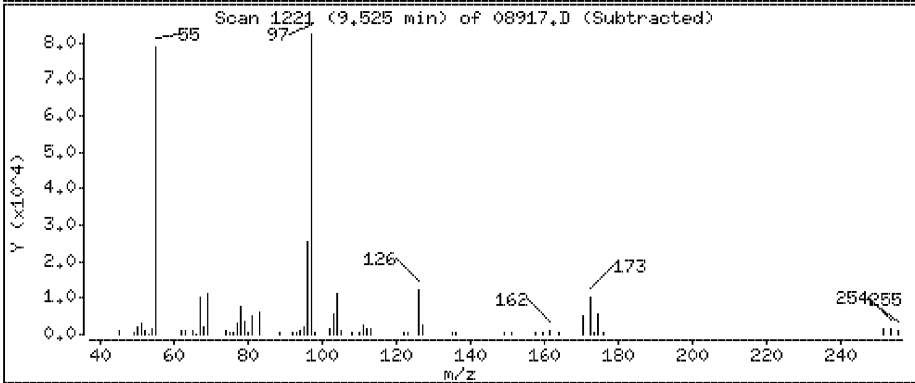
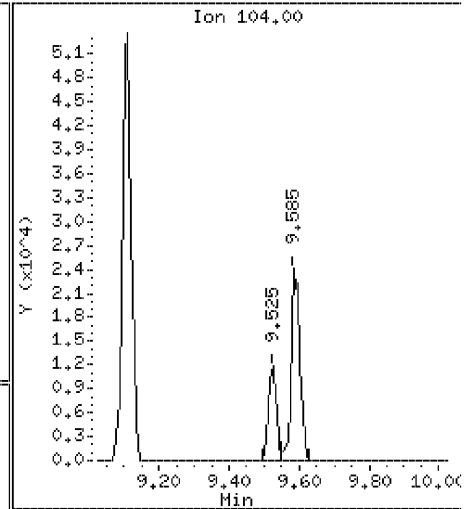
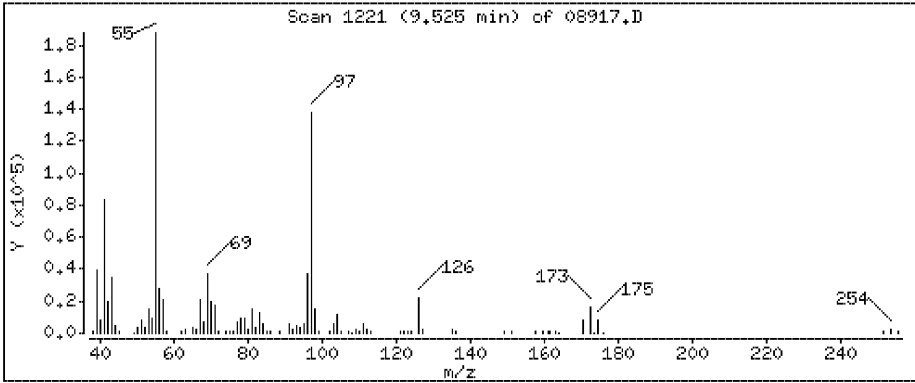
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

70 Styrene

Concentration: 0.298 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

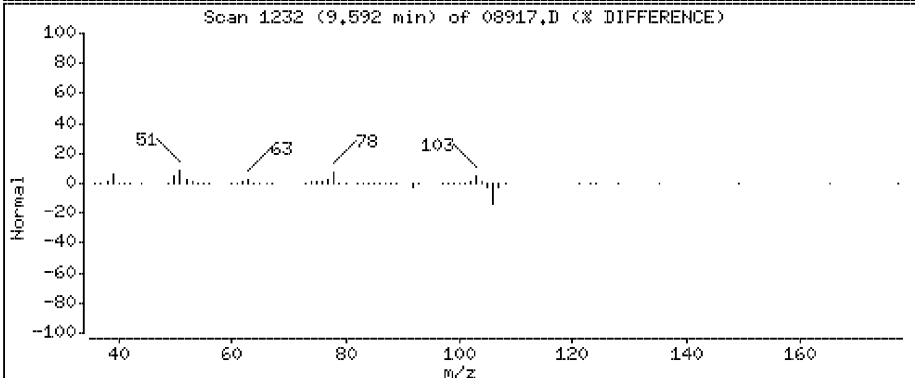
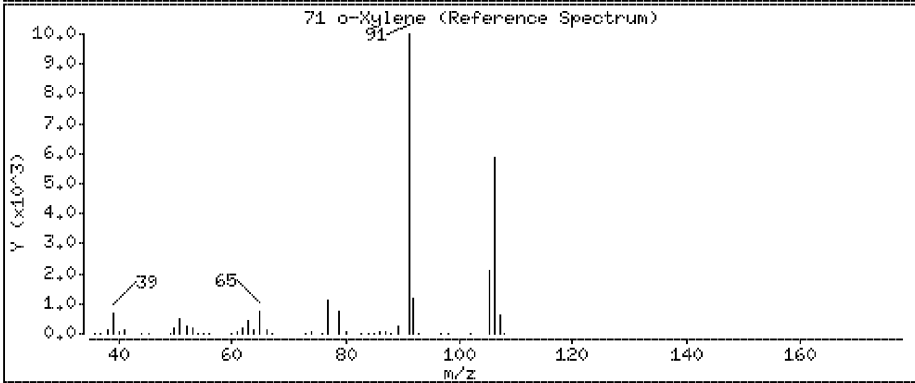
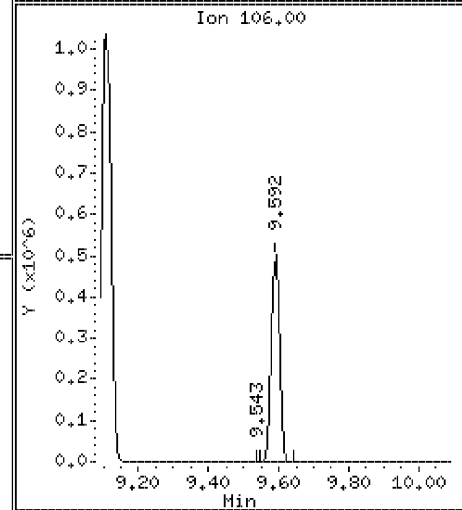
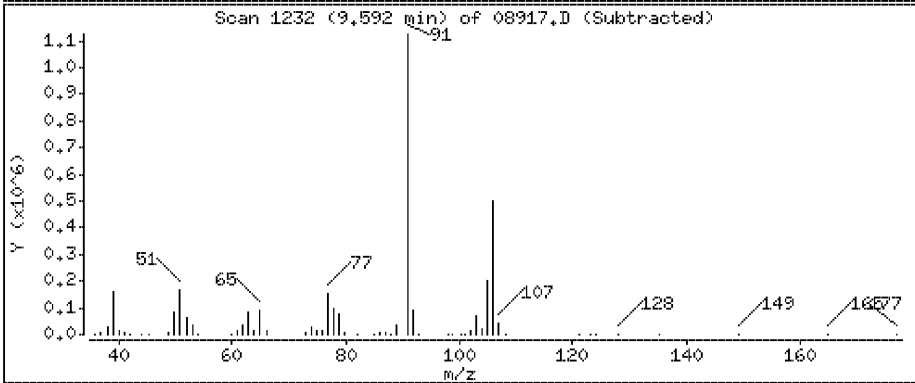
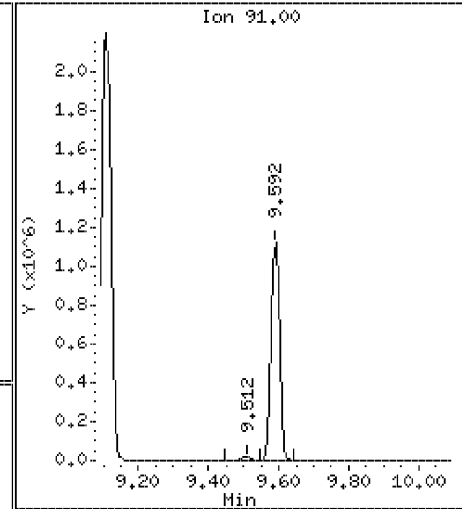
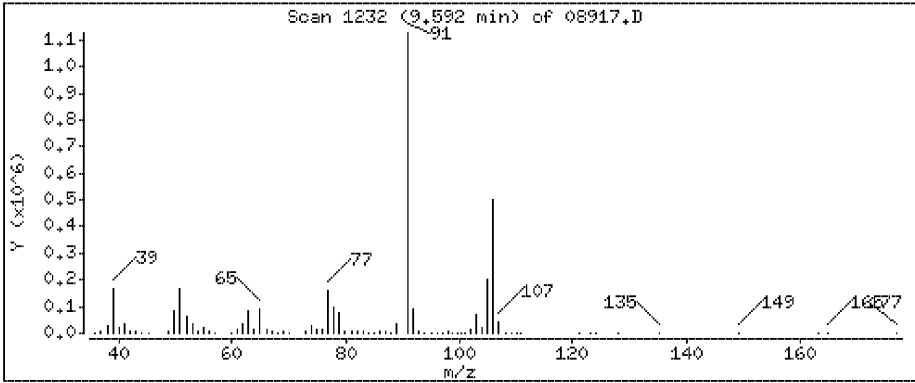
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

71 o-Xylene

Concentration: 21.1 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

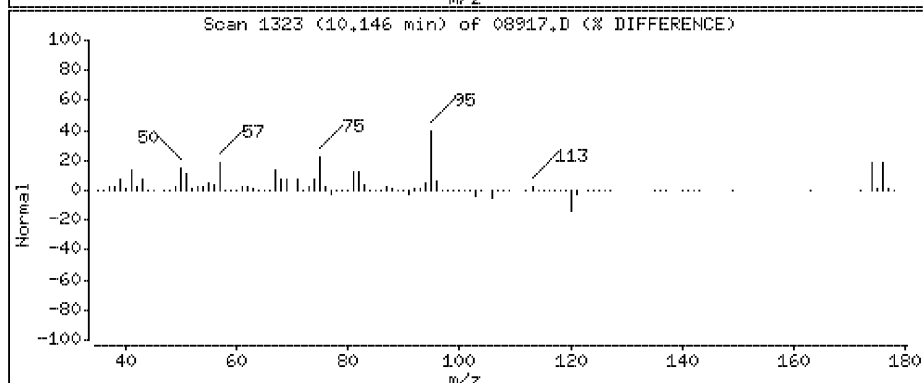
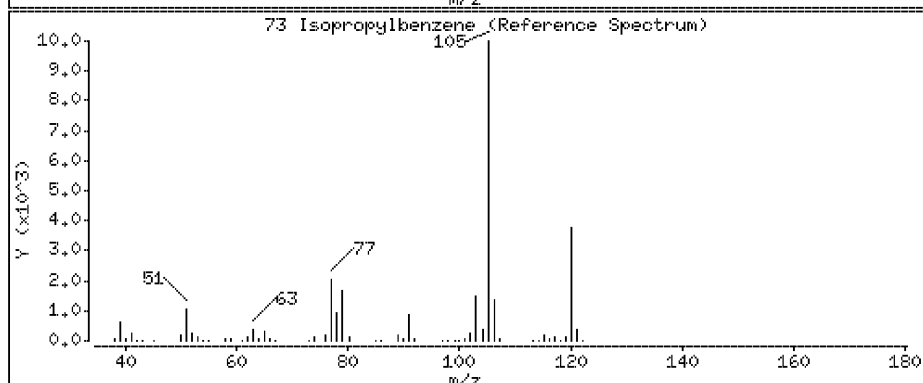
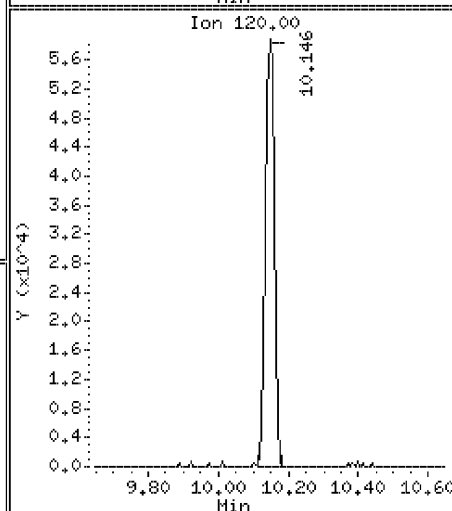
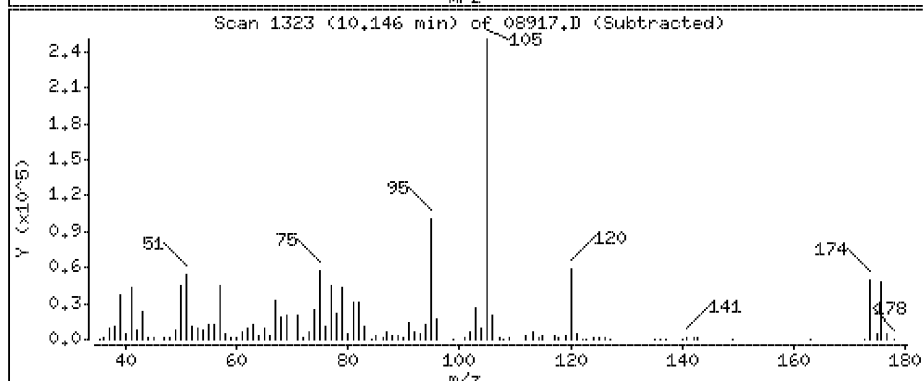
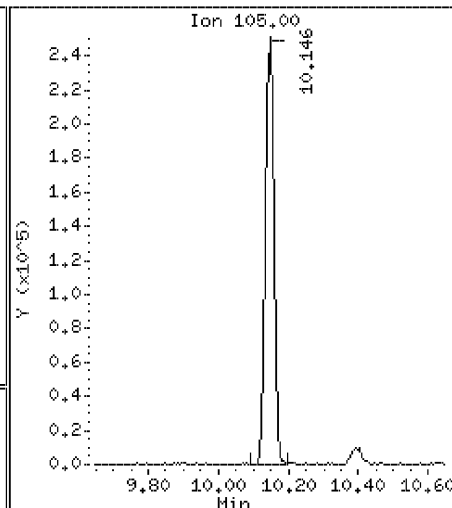
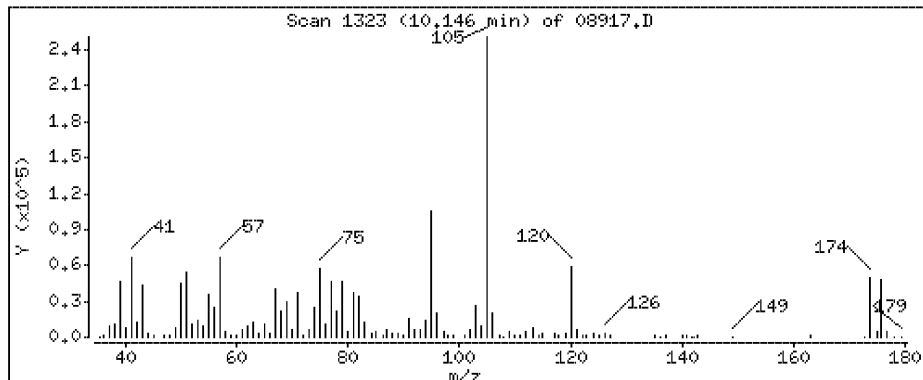
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

73 Isopropylbenzene

Concentration: 3.46 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

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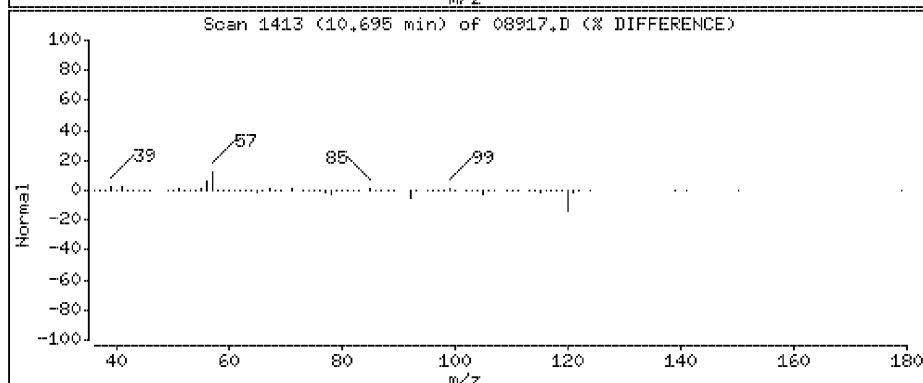
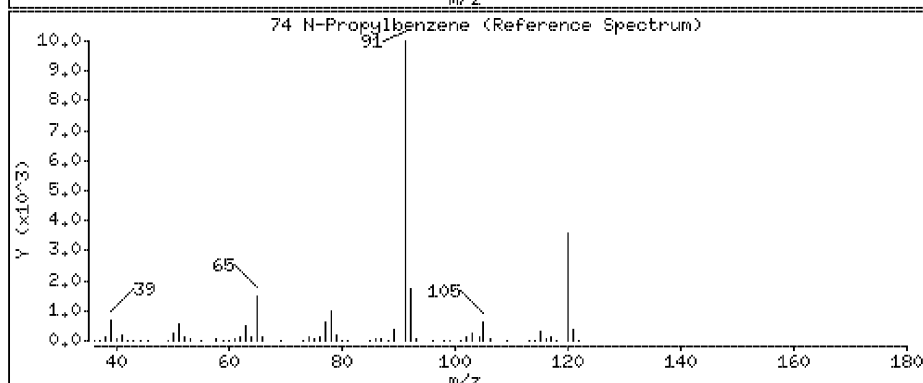
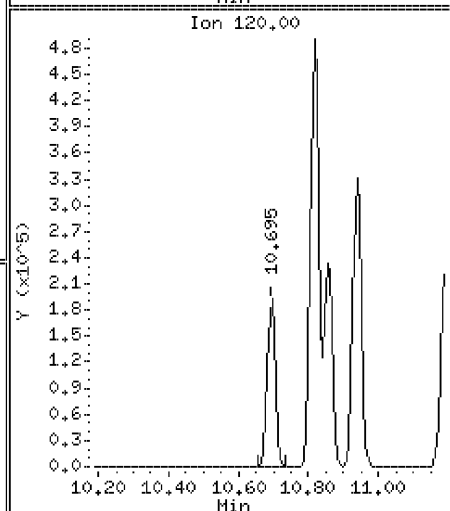
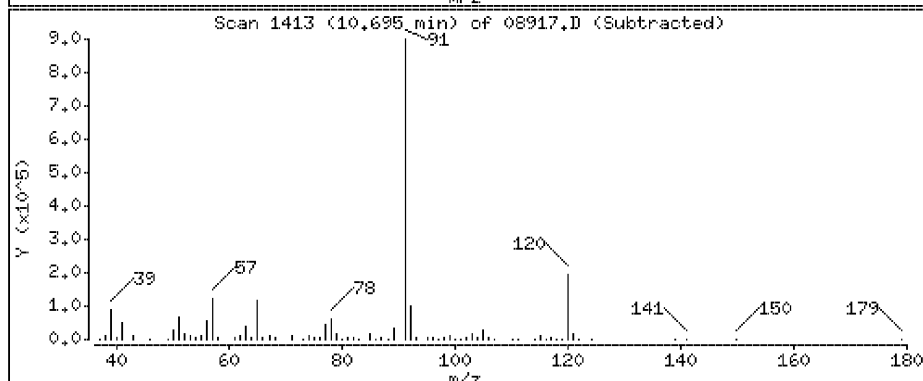
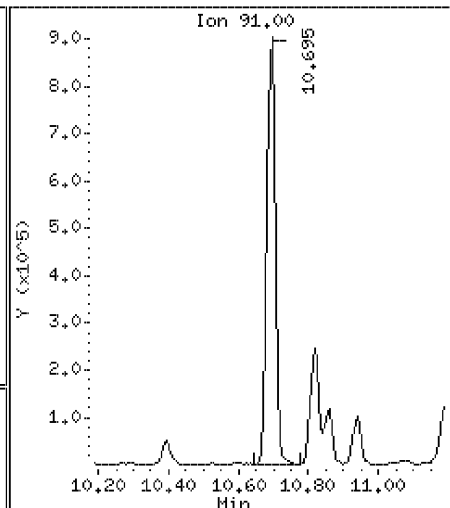
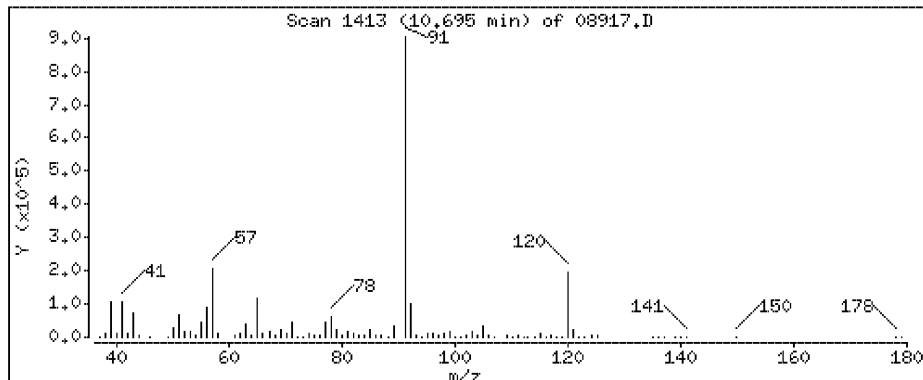
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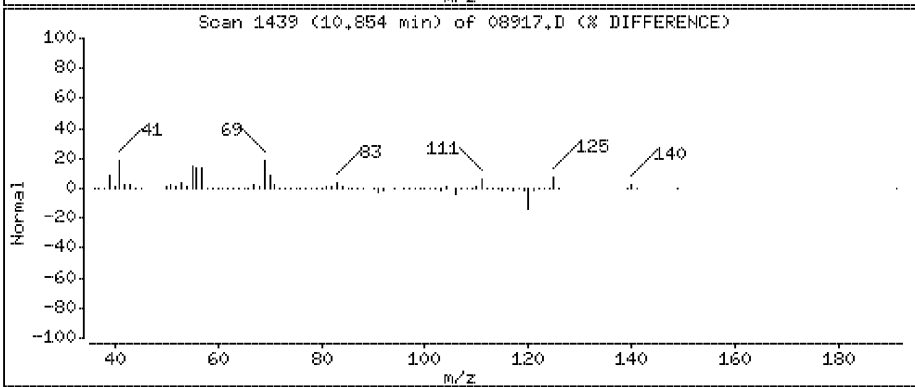
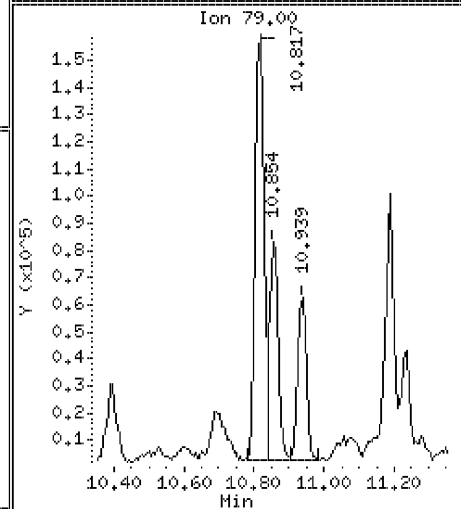
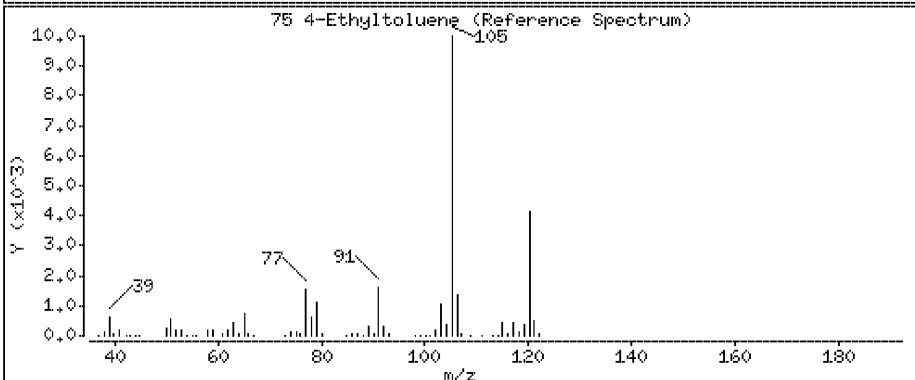
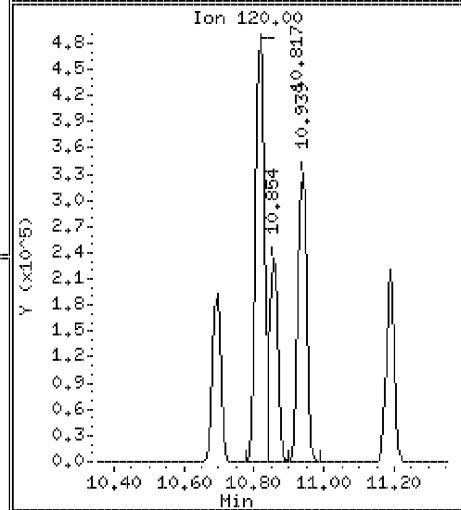
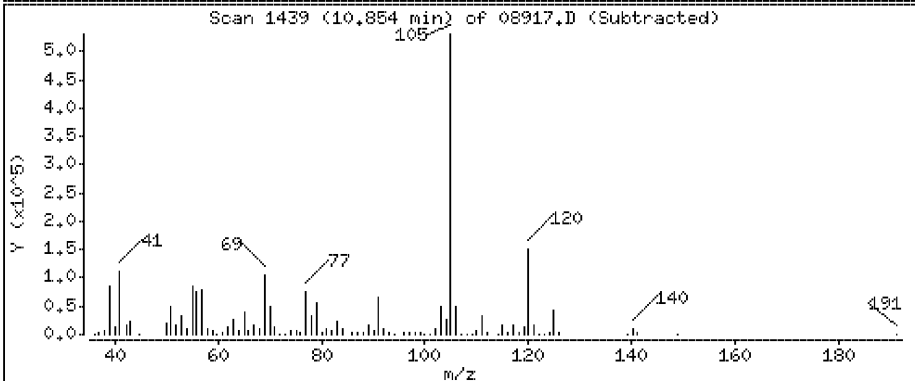
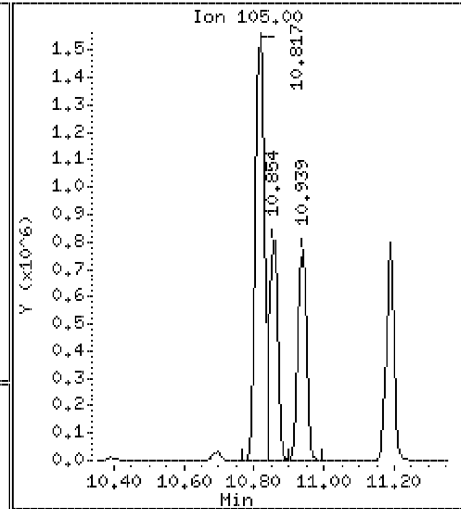
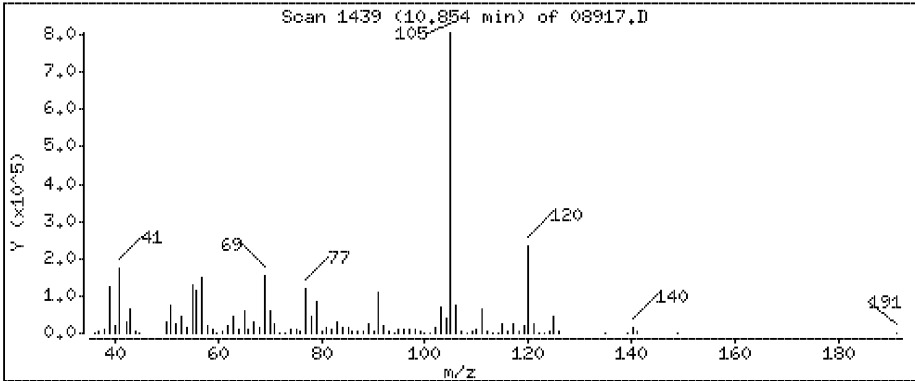
Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

74 N-Propylbenzene

Concentration: 10,5 ppbv





Data File: \\192.168.10.12\chem\10airI,i\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

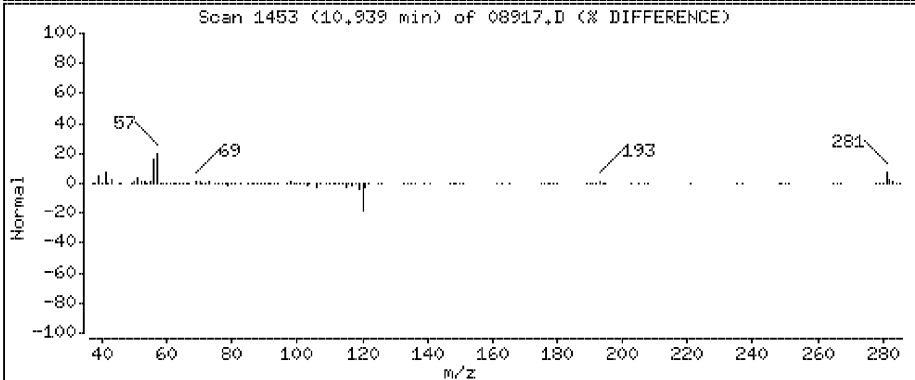
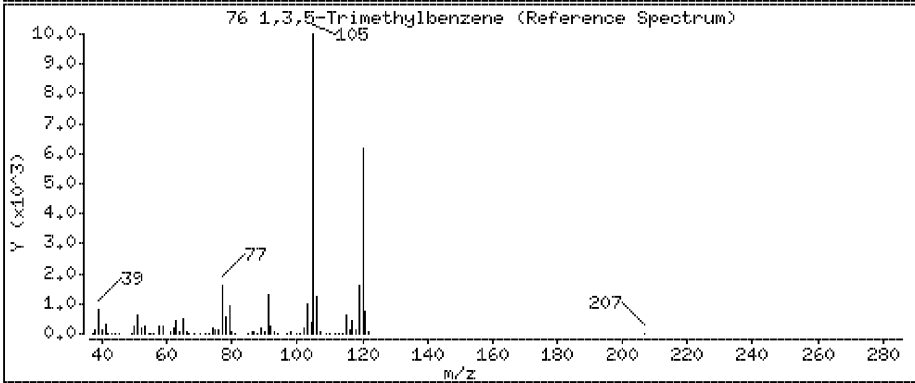
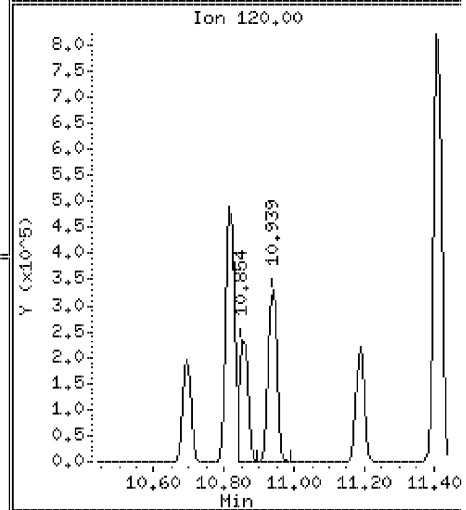
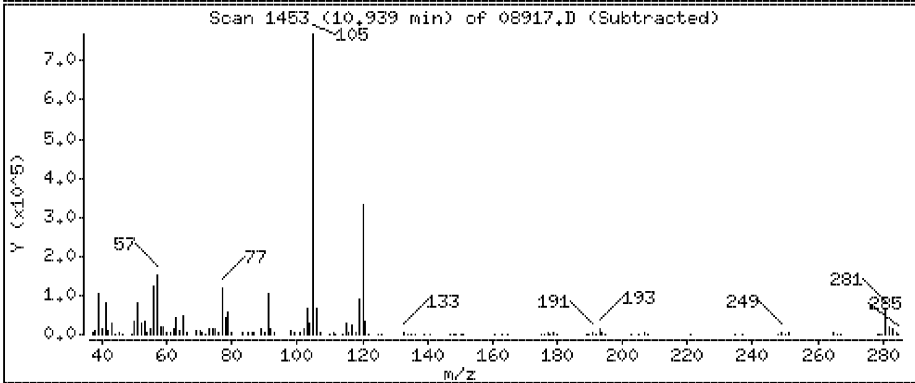
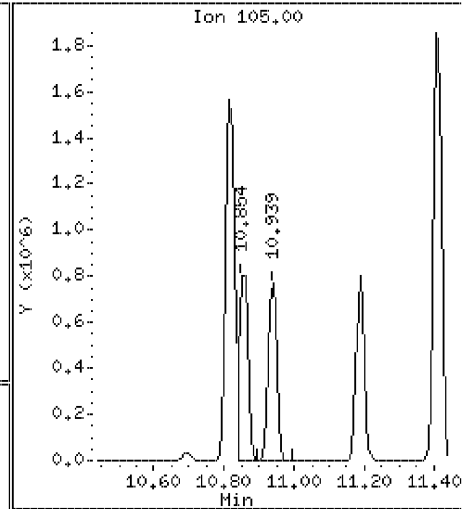
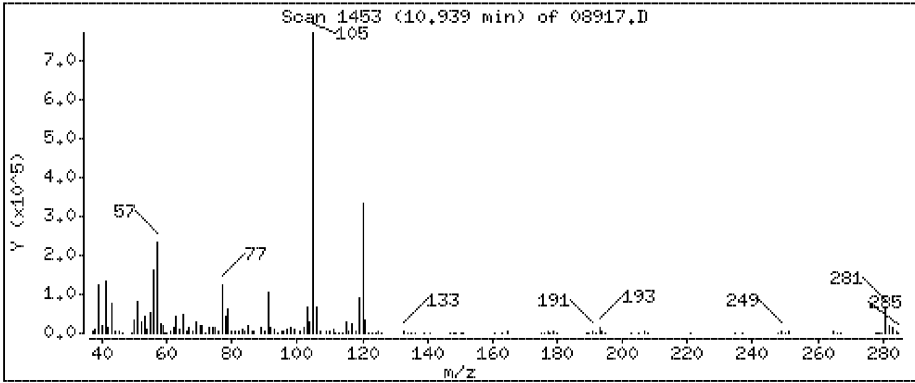
Operator: MJL

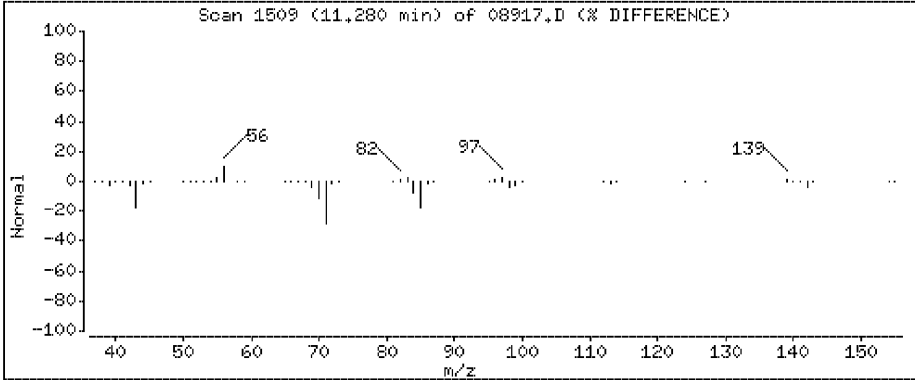
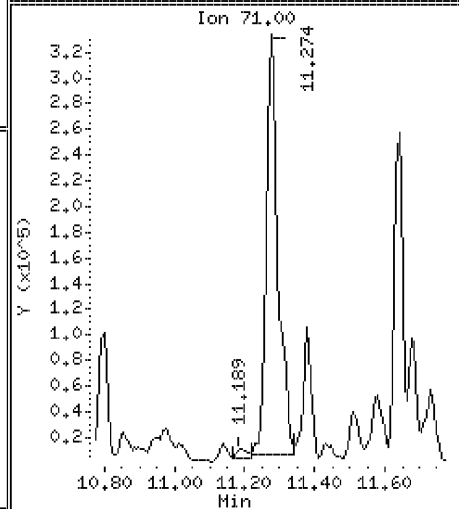
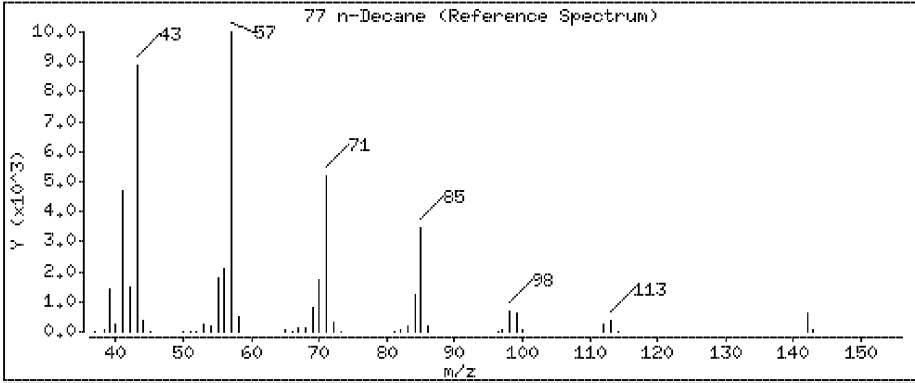
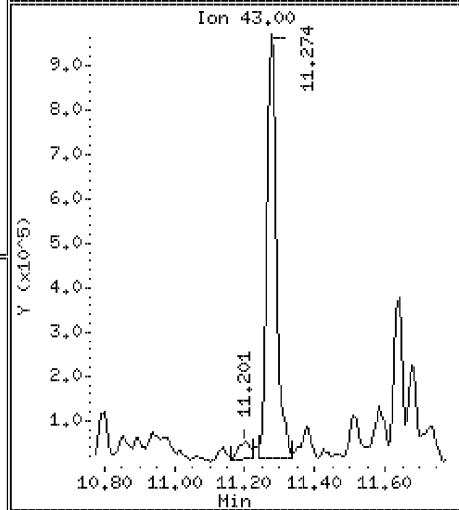
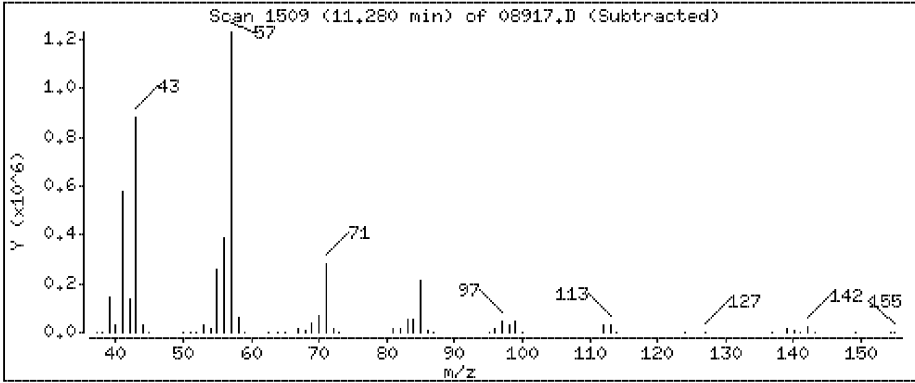
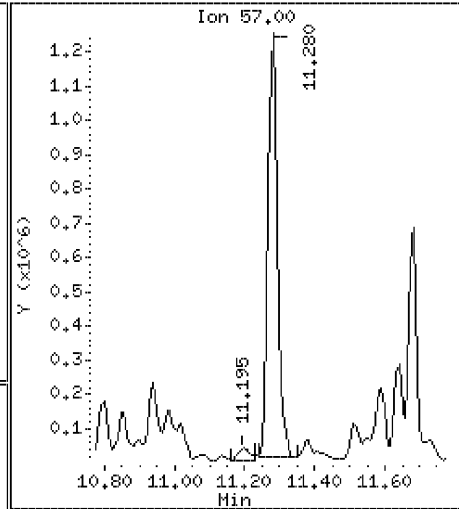
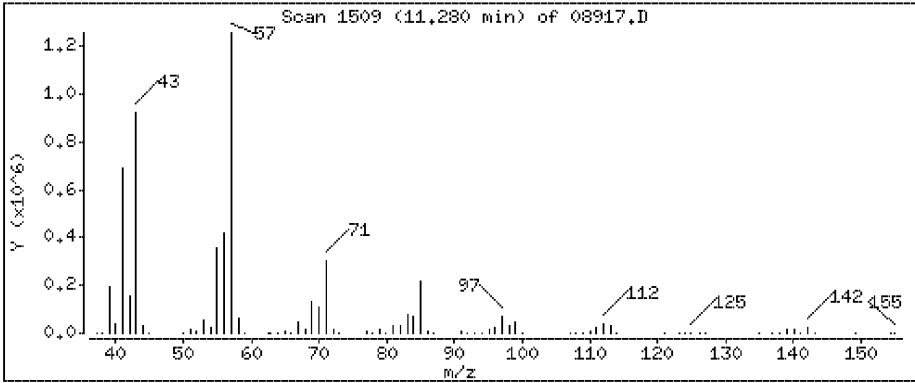
Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

76 1,3,5-Trimethylbenzene

Concentration: 13.7 ppbv





Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

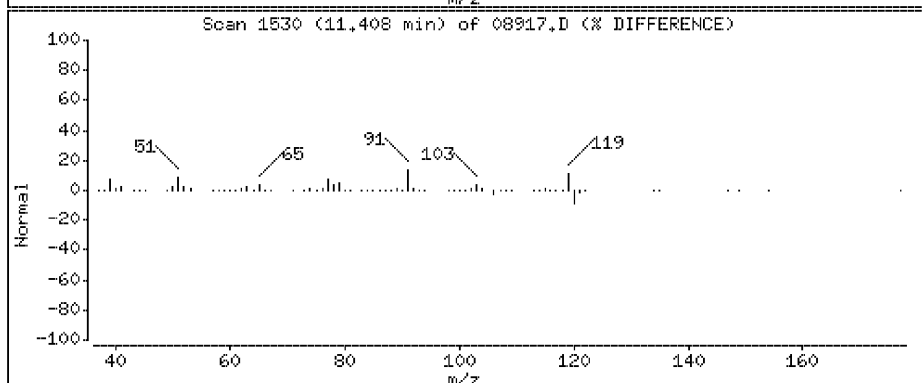
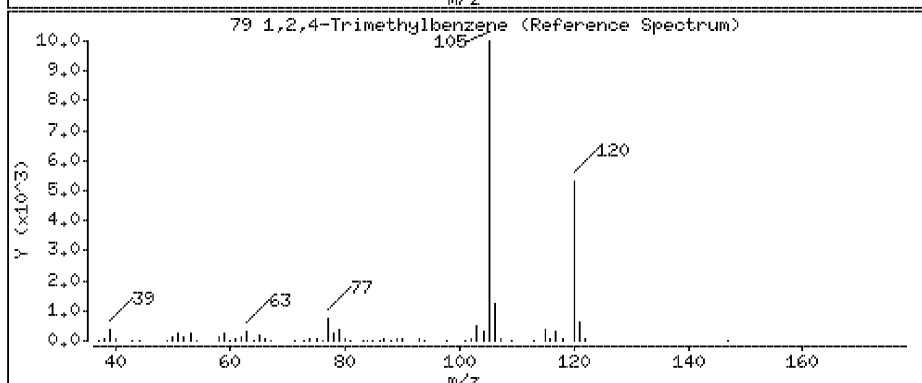
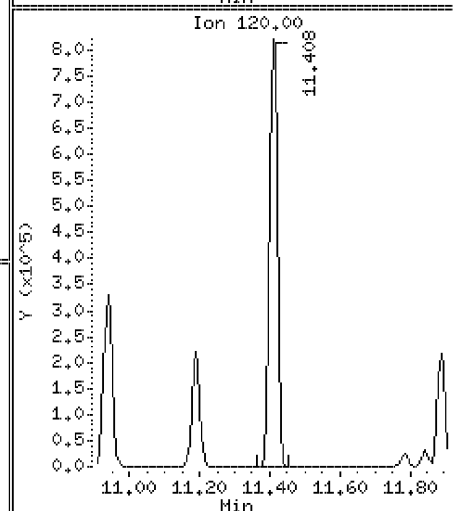
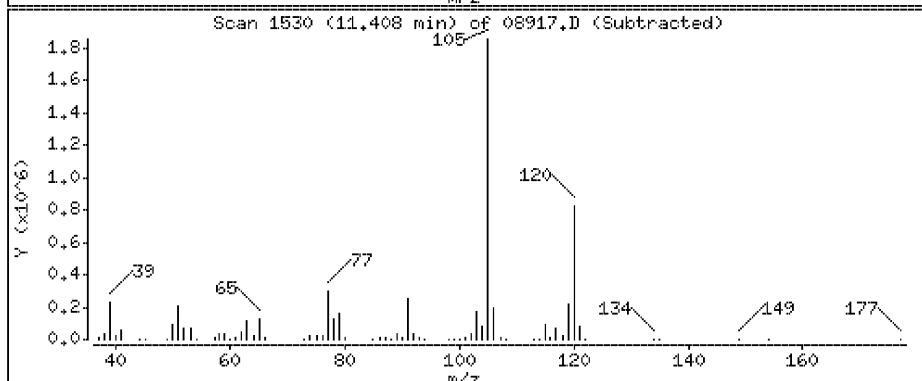
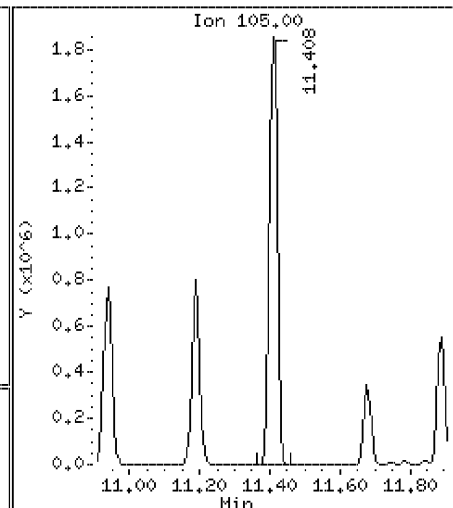
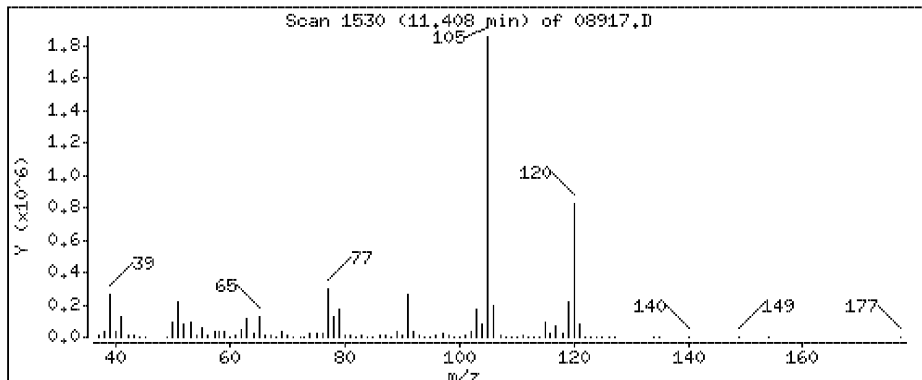
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

79 1,2,4-Trimethylbenzene

Concentration: 31.9 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

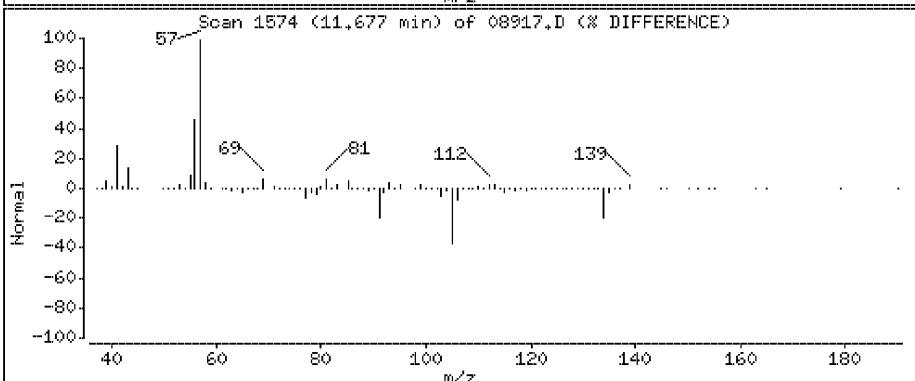
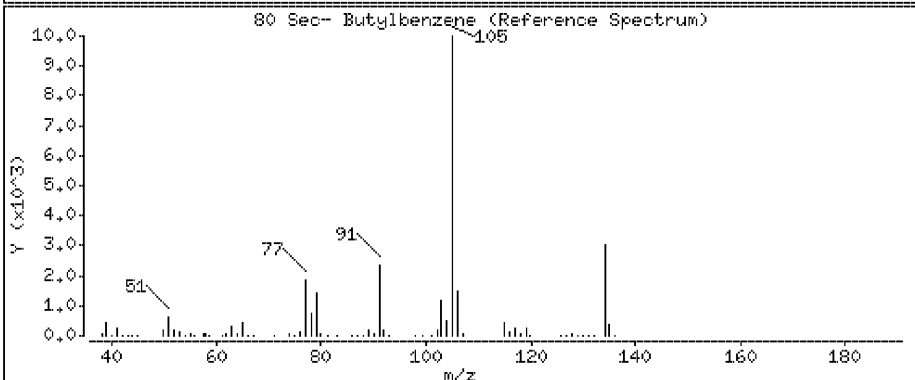
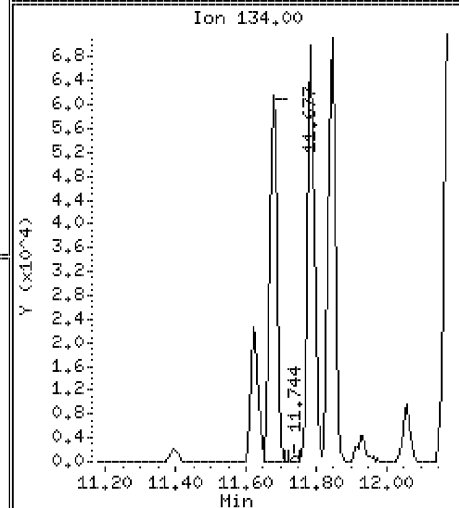
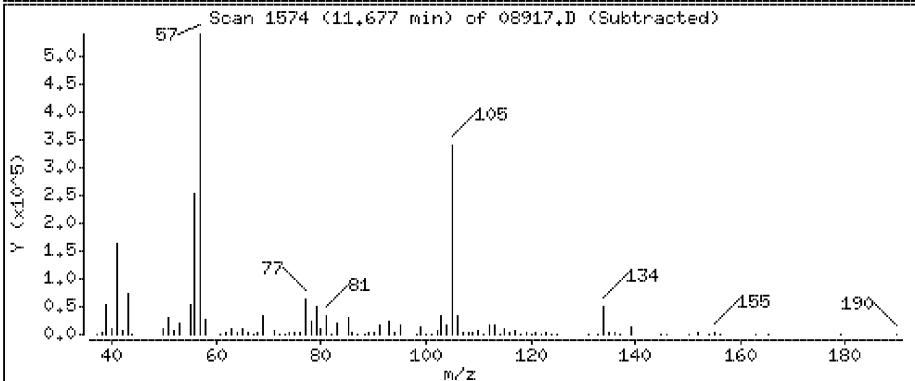
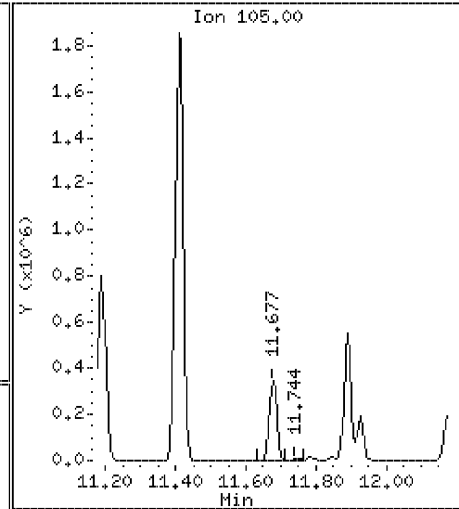
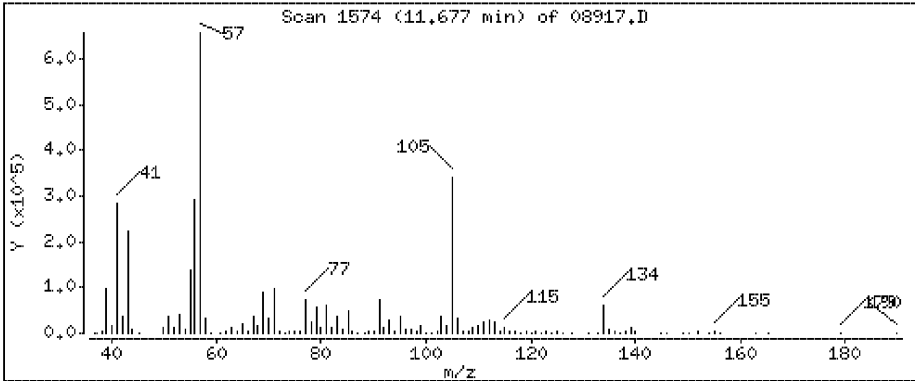
Operator: MJL

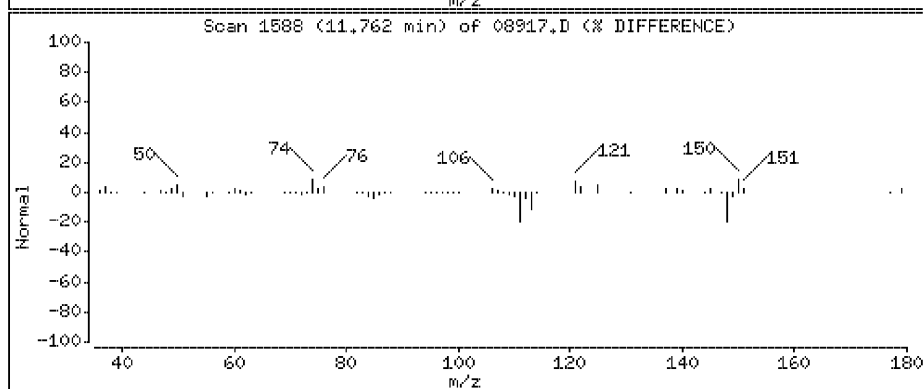
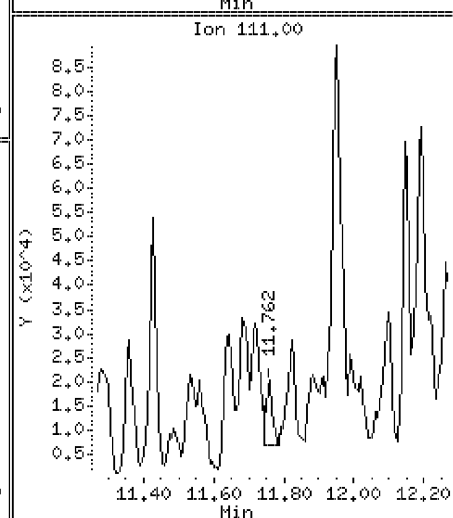
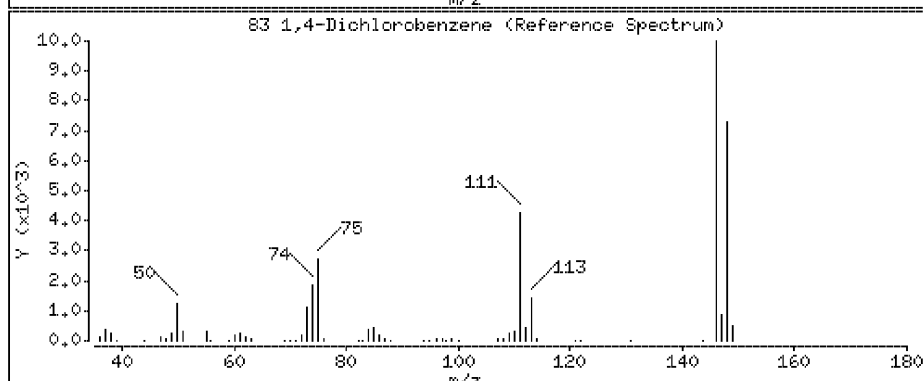
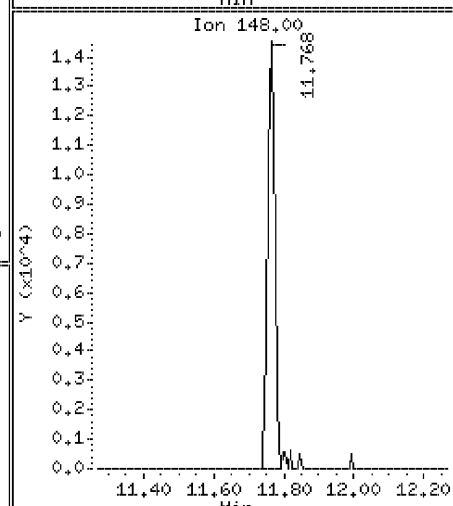
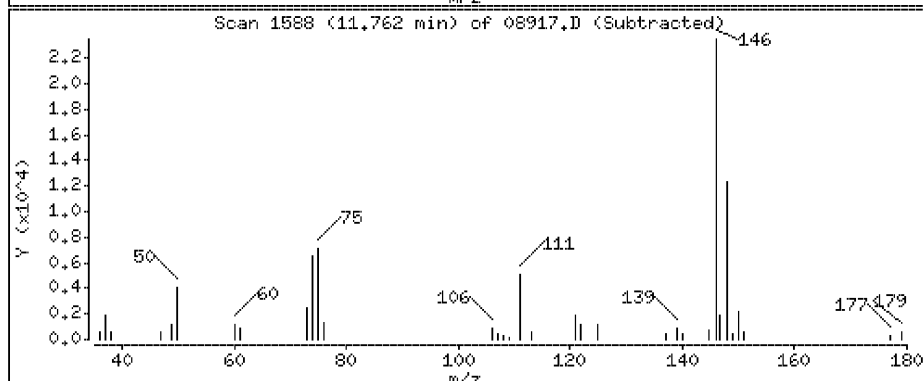
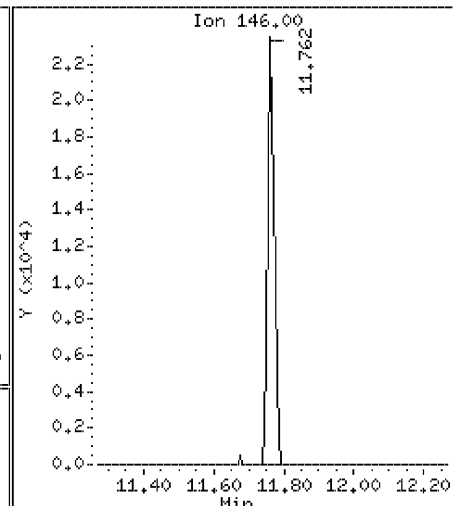
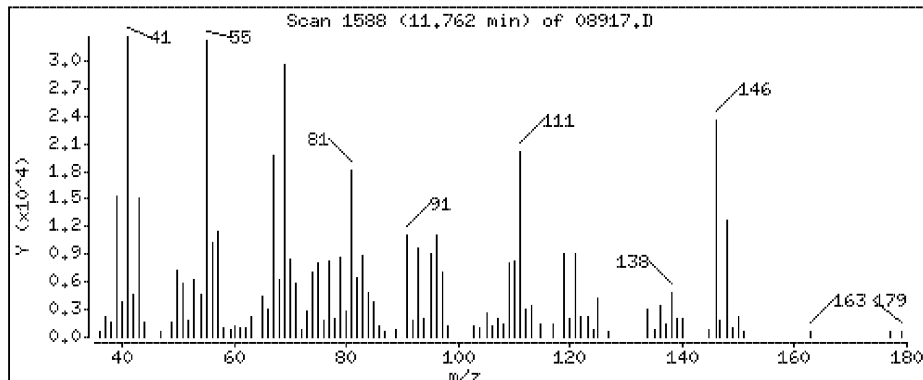
Column phase: DB-5 SN:USD449717H

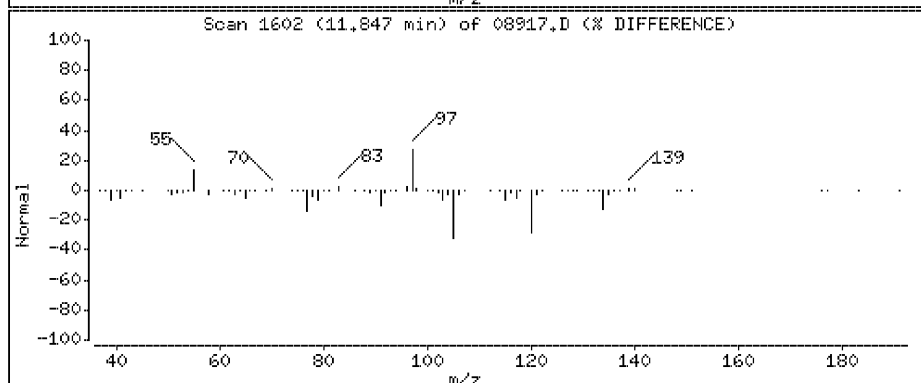
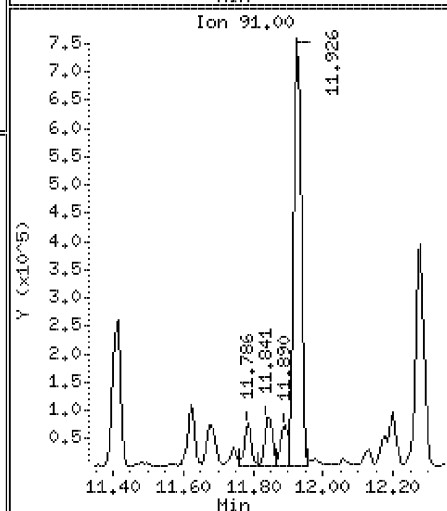
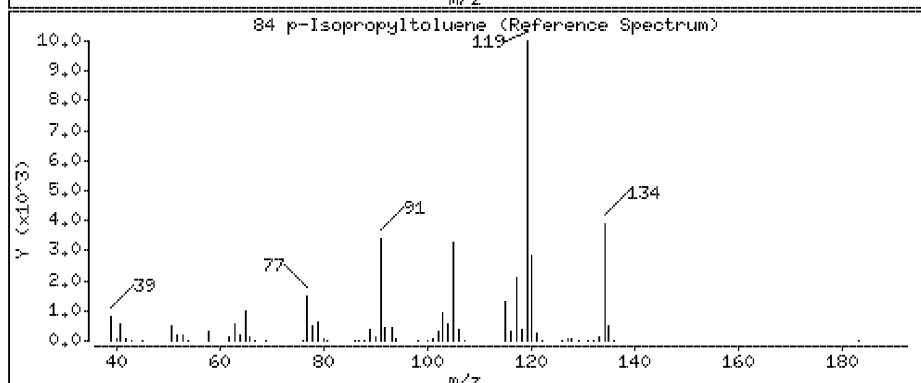
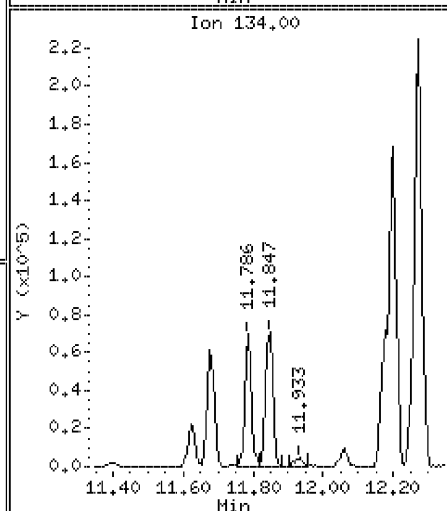
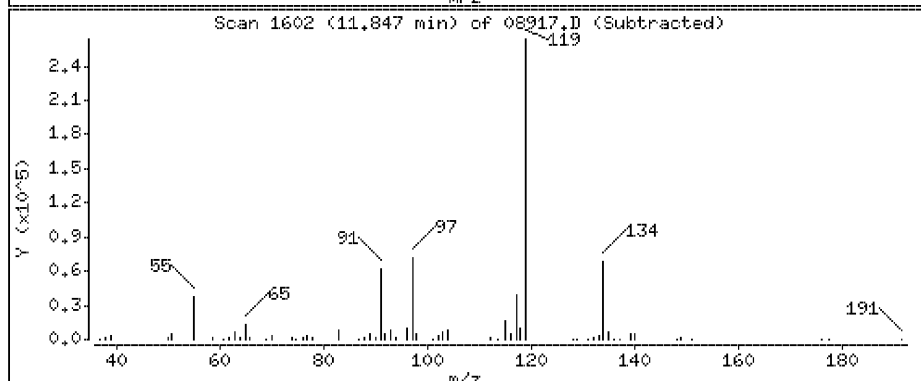
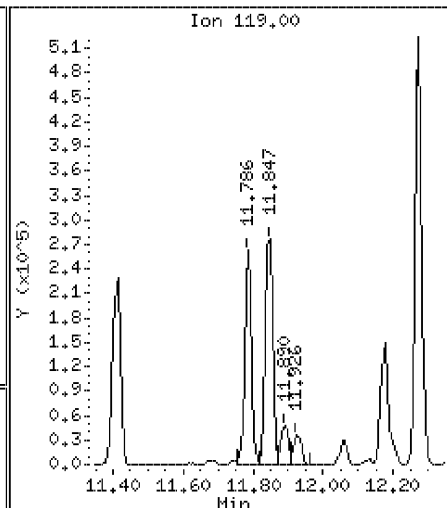
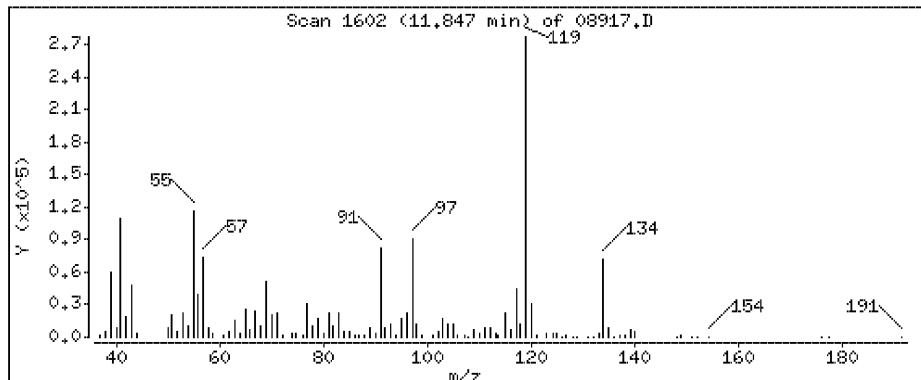
Column diameter: 0.32

80 Sec- Butylbenzene

Concentration: 3.82 ppbv







Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

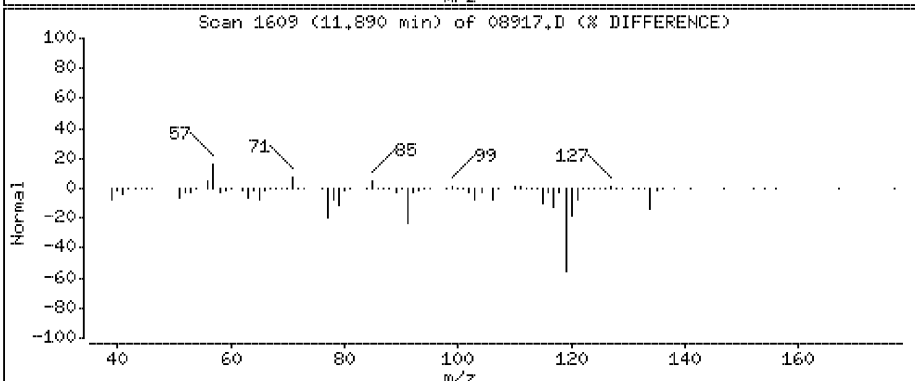
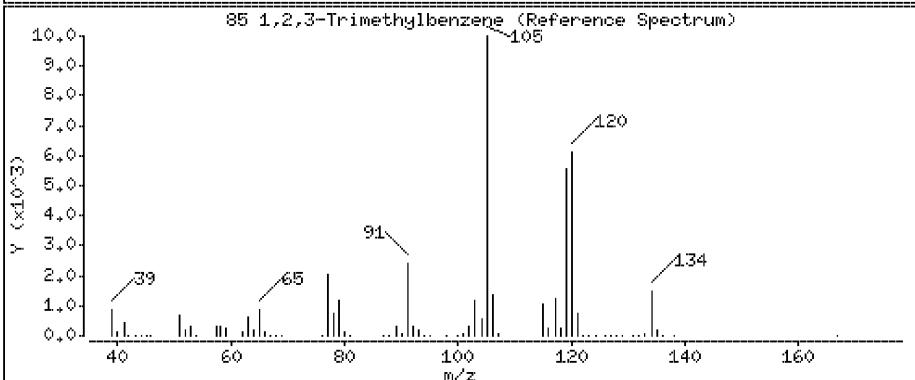
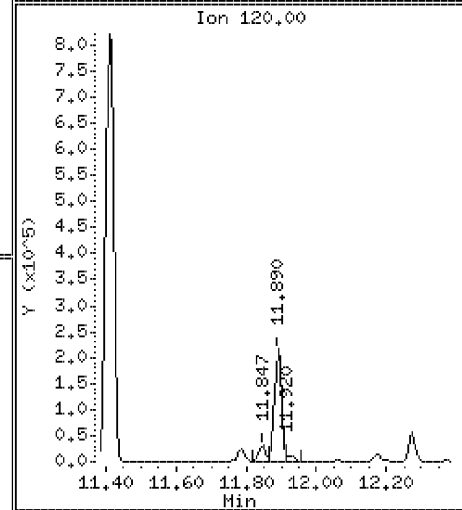
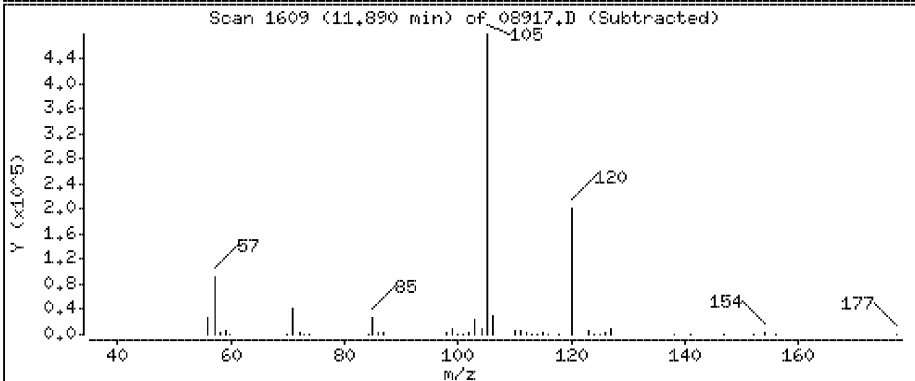
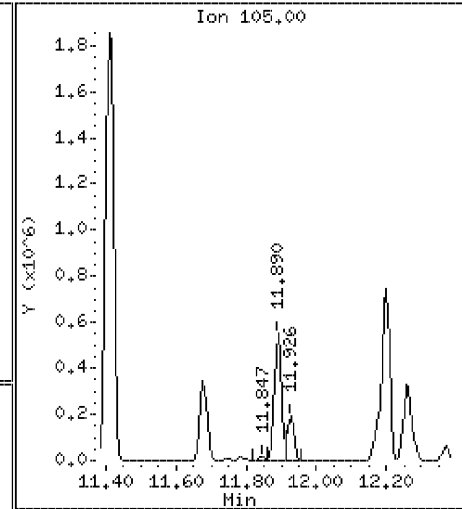
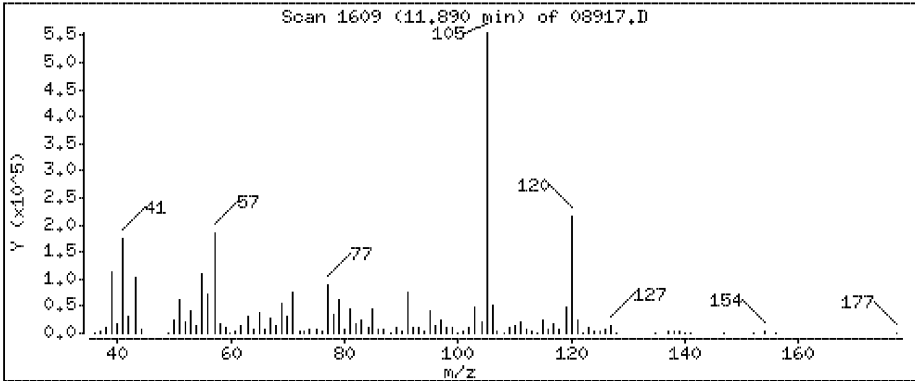
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

85 1,2,3-Trimethylbenzene

Concentration: 9.00 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

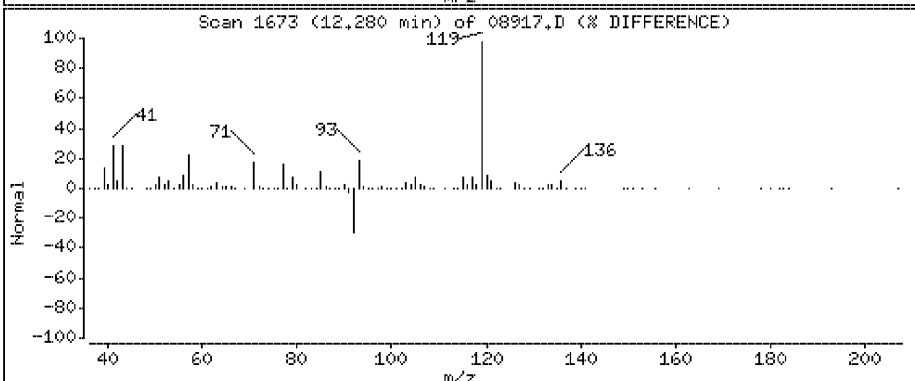
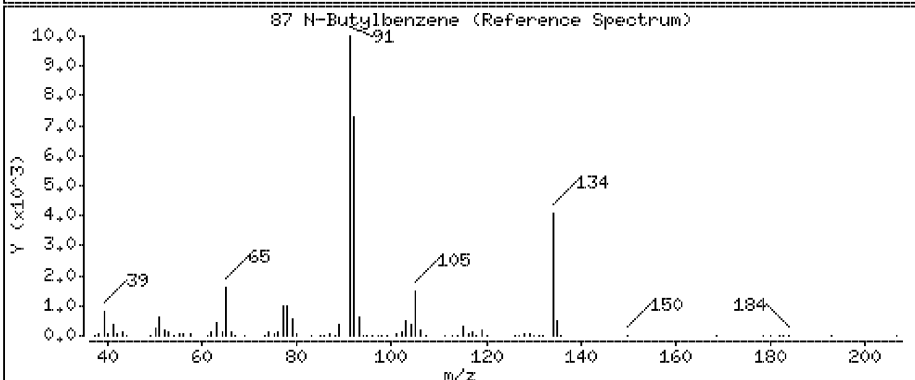
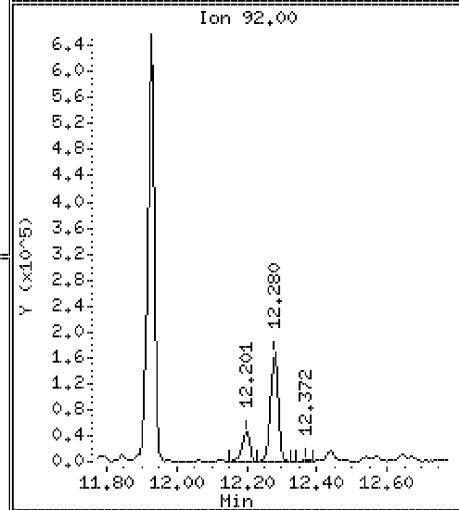
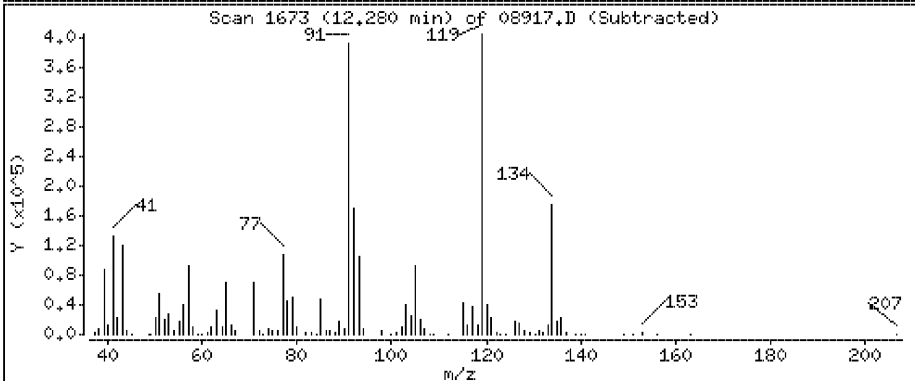
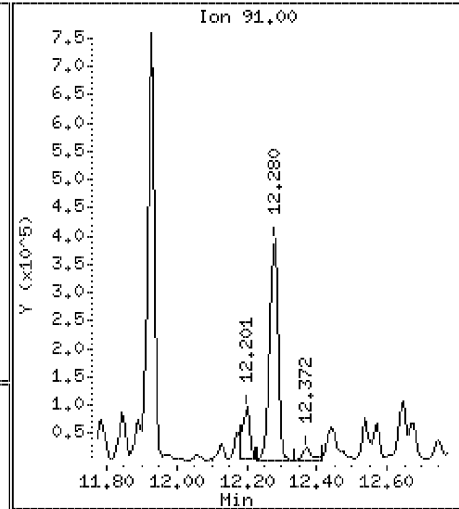
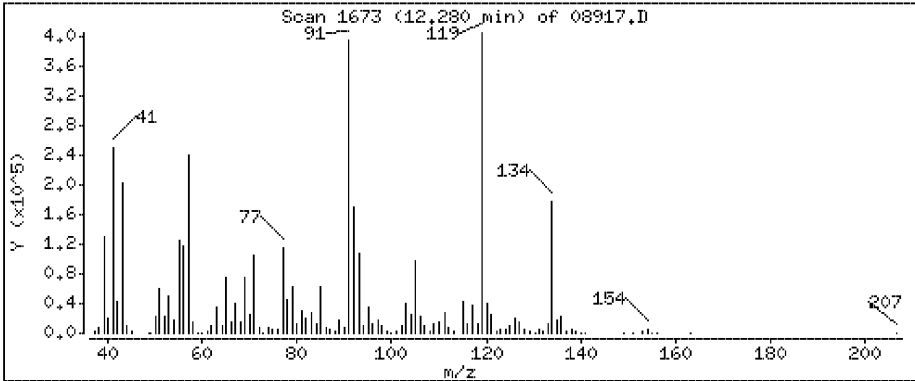
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

87 N-Butylbenzene

Concentration: 6.34 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08917.D

Date : 30-MAR-2019 14:22

Client ID:

Instrument: 10airI.i

Sample Info:

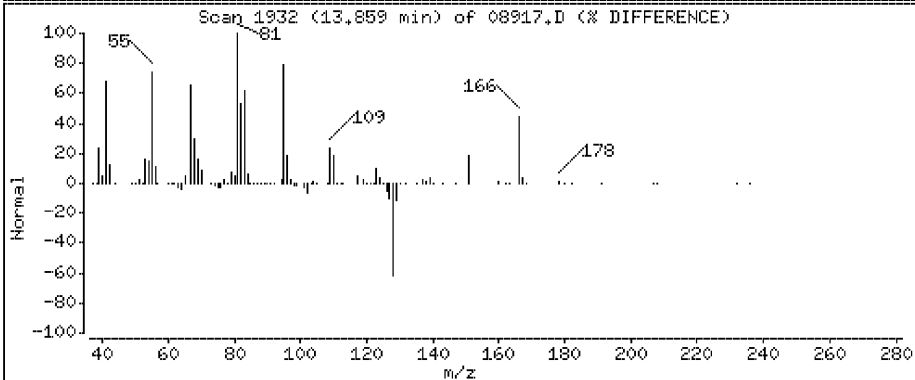
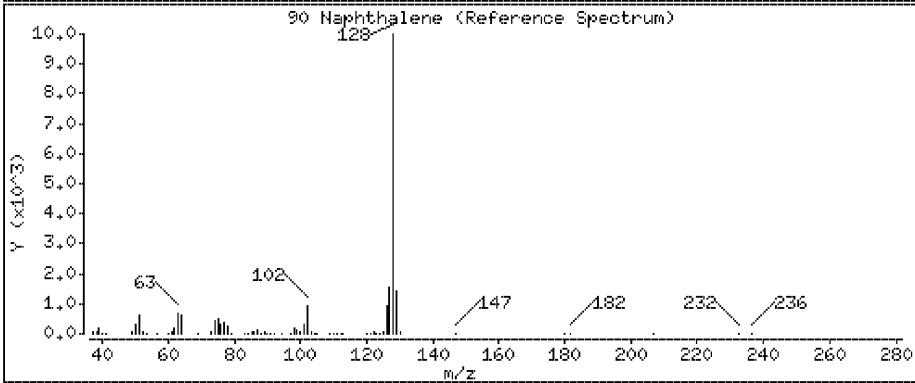
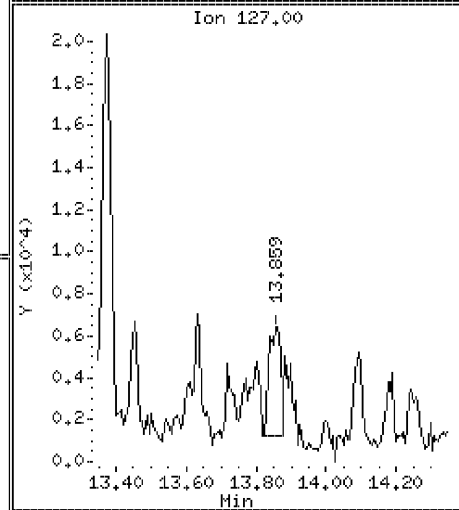
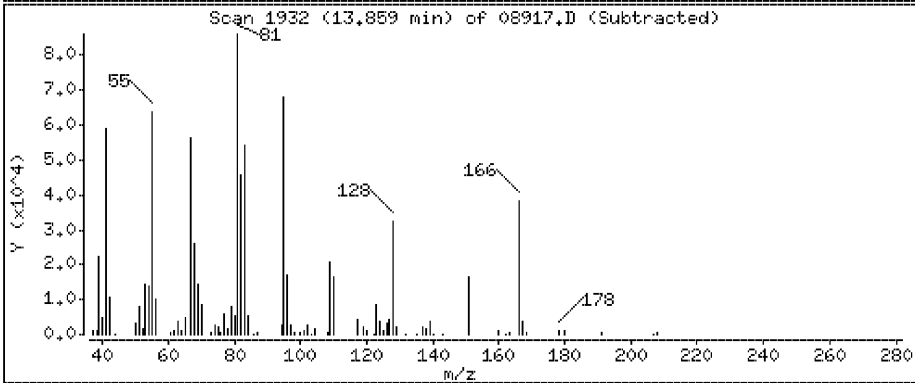
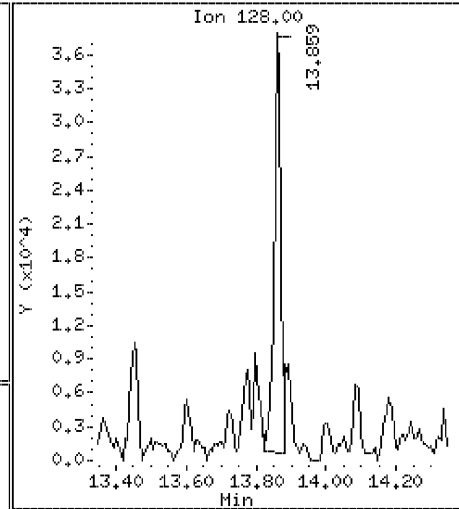
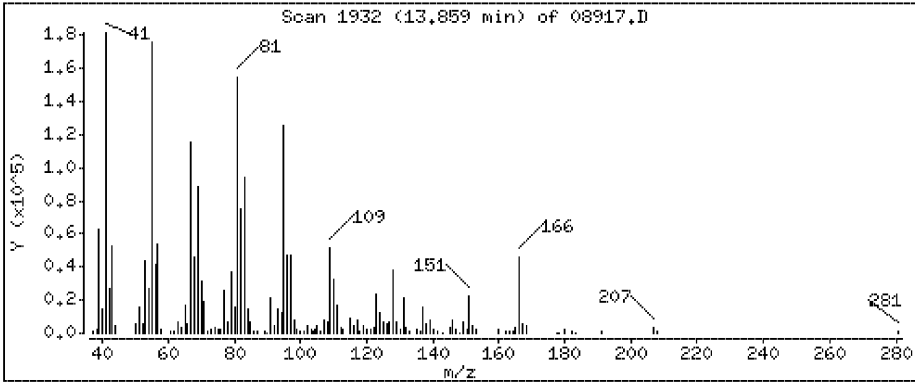
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

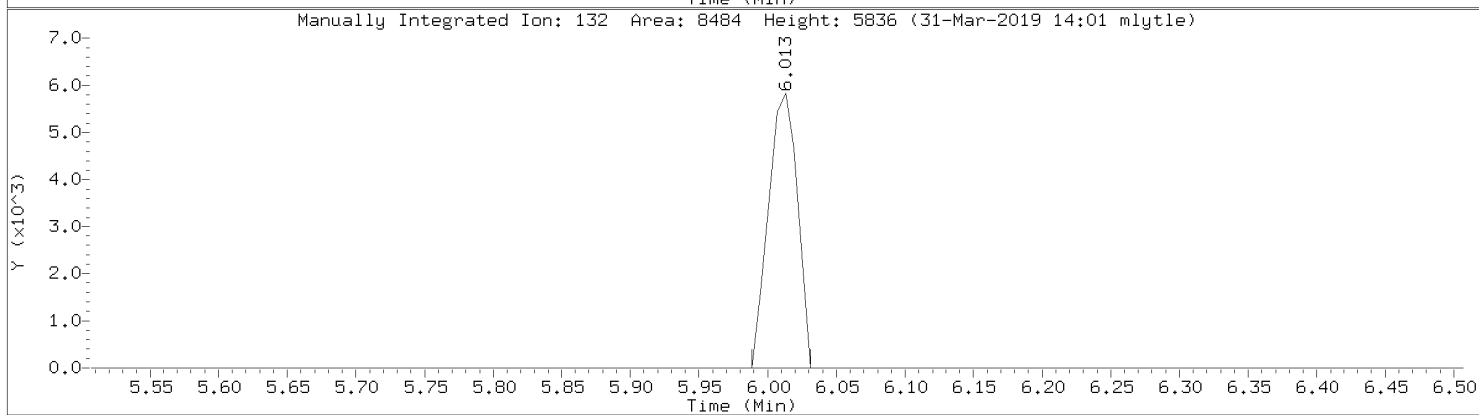
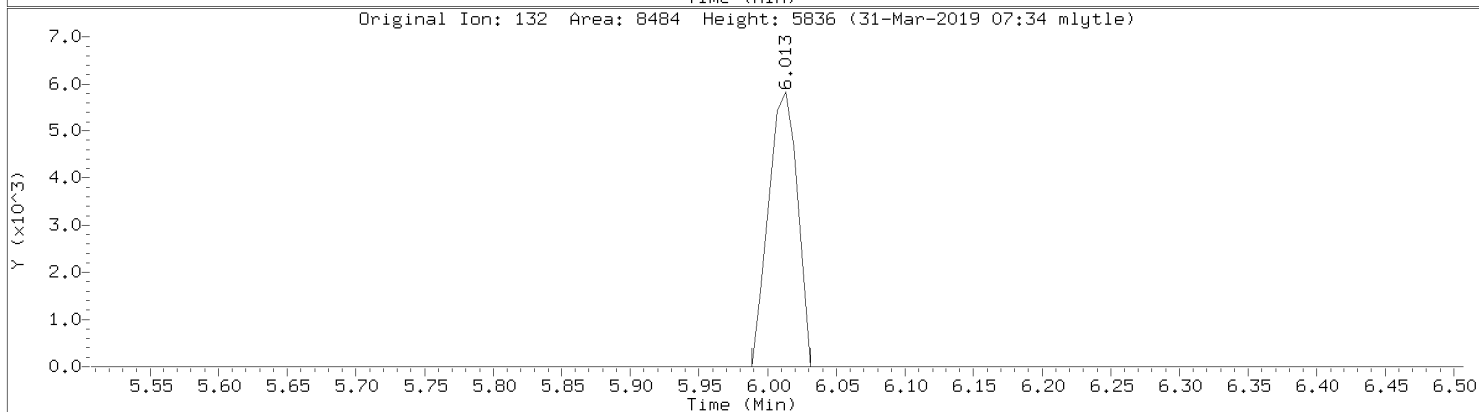
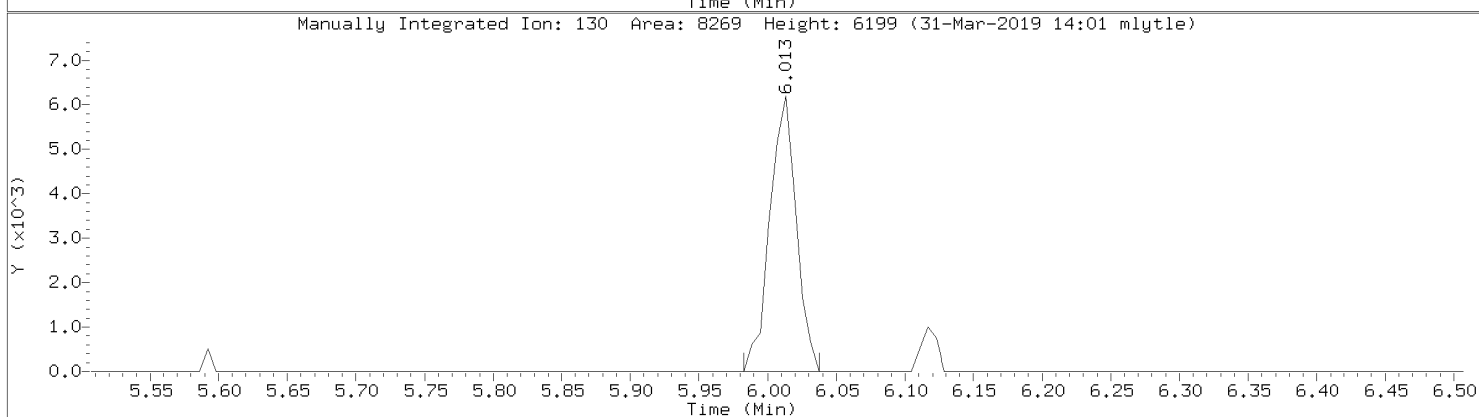
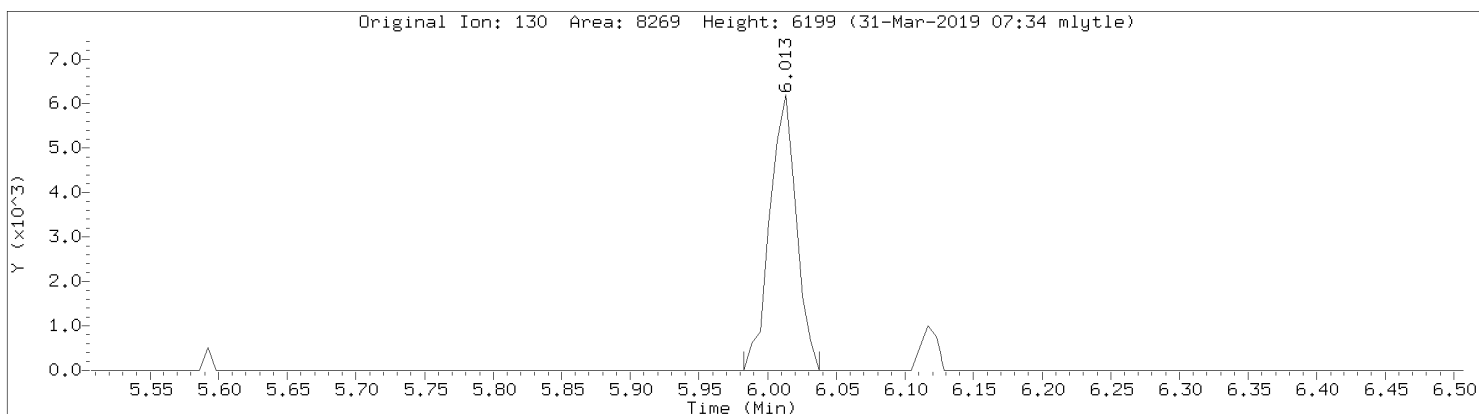
90 Naphthalene

Concentration: 0.793 ppbv

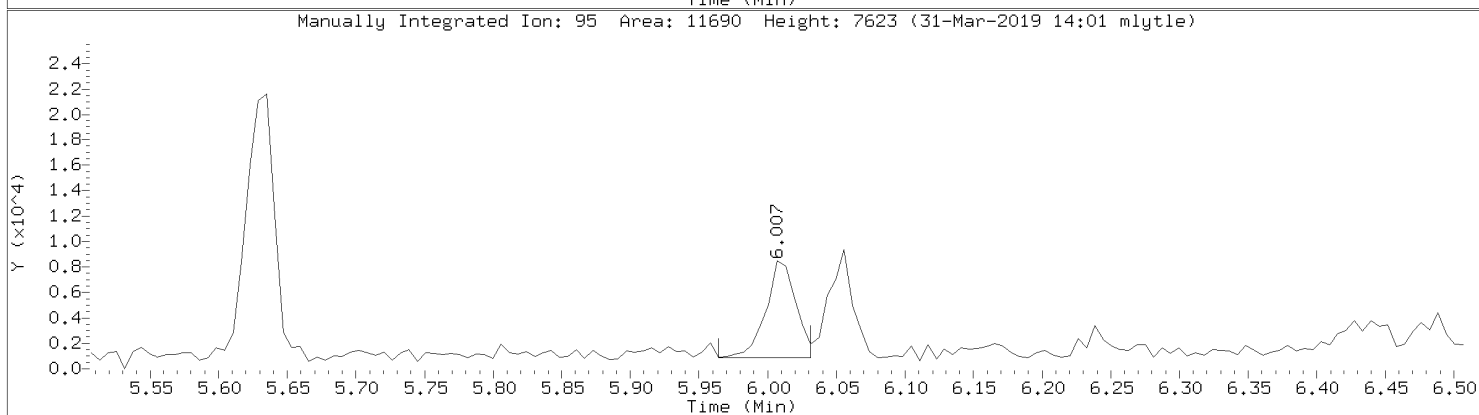
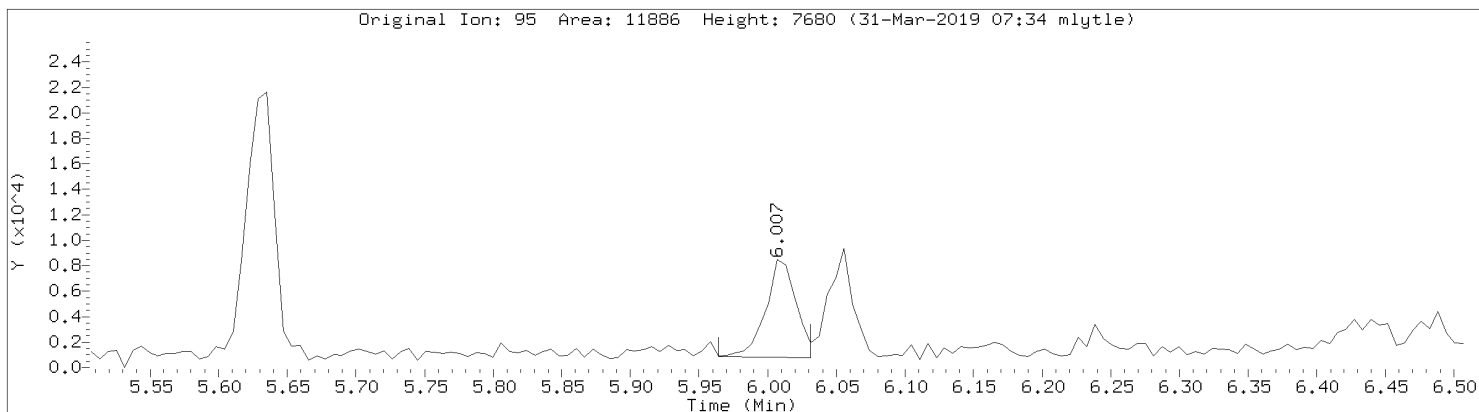


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08917.D
Injection Date: 30-MAR-2019 14:22
Instrument: 10airI.i
Lab Sample ID: 10468767005

Compound: Trichloroethene
CAS Number: 79-01-6

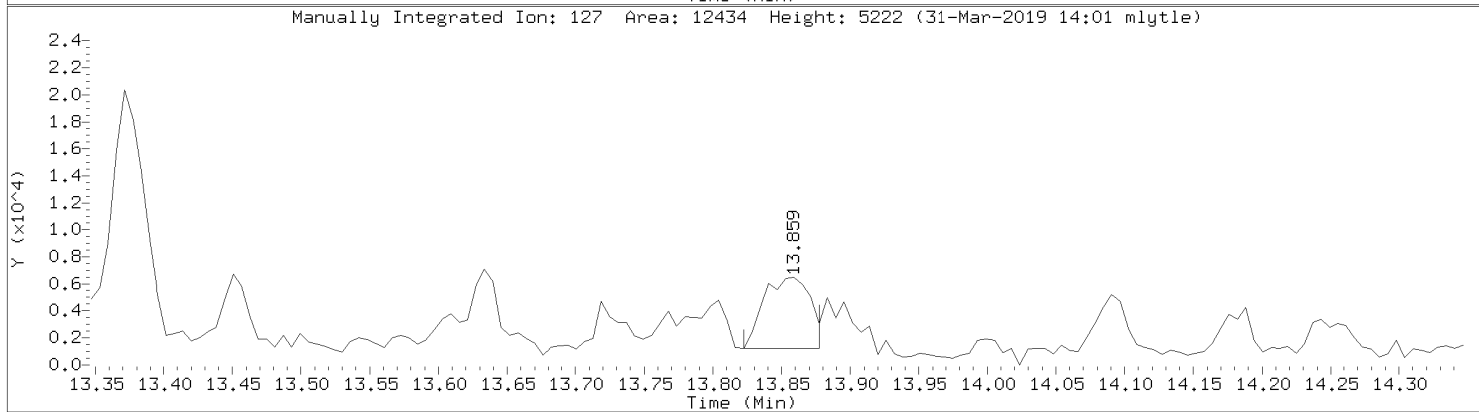
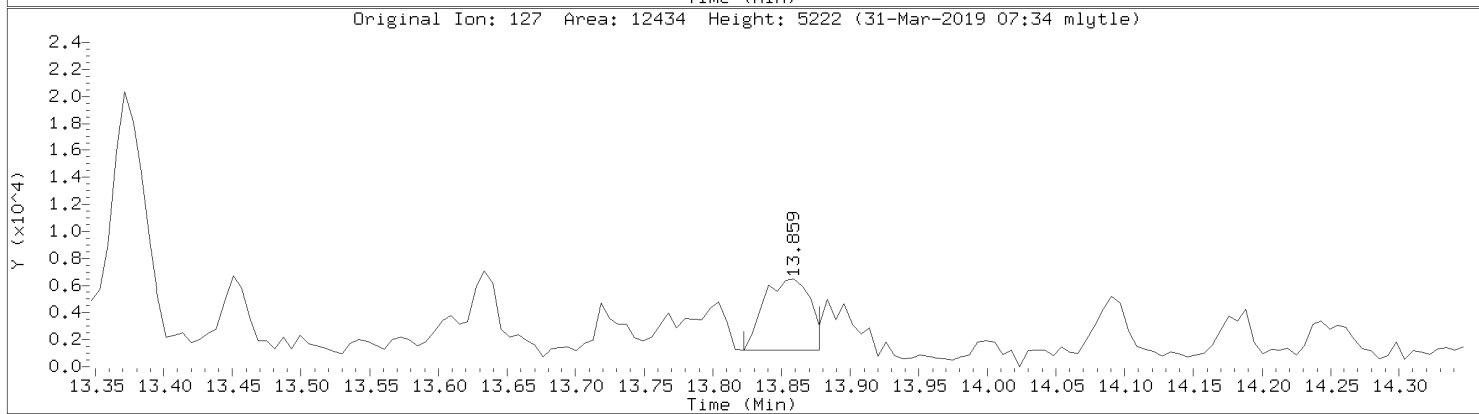
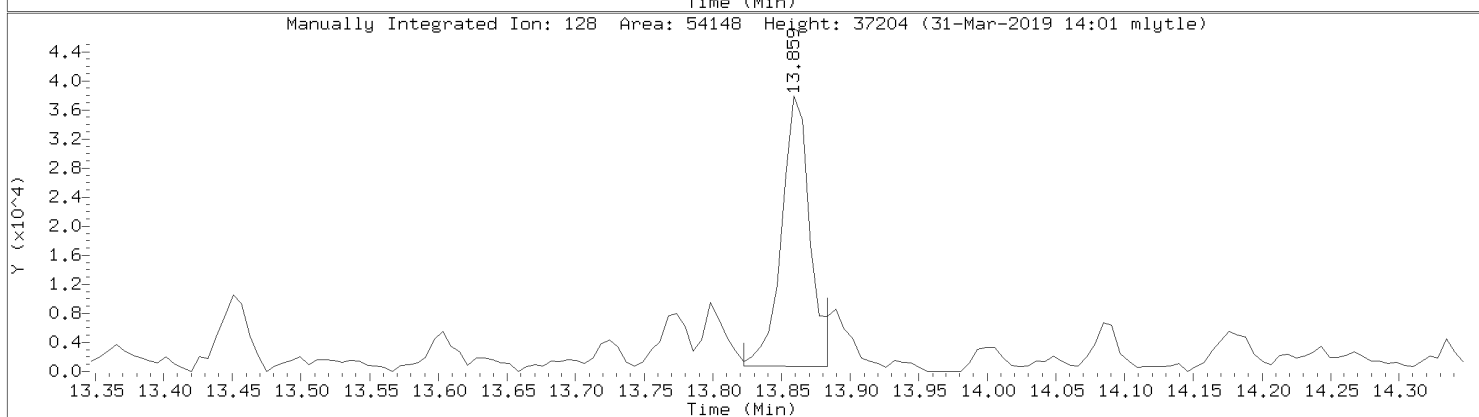
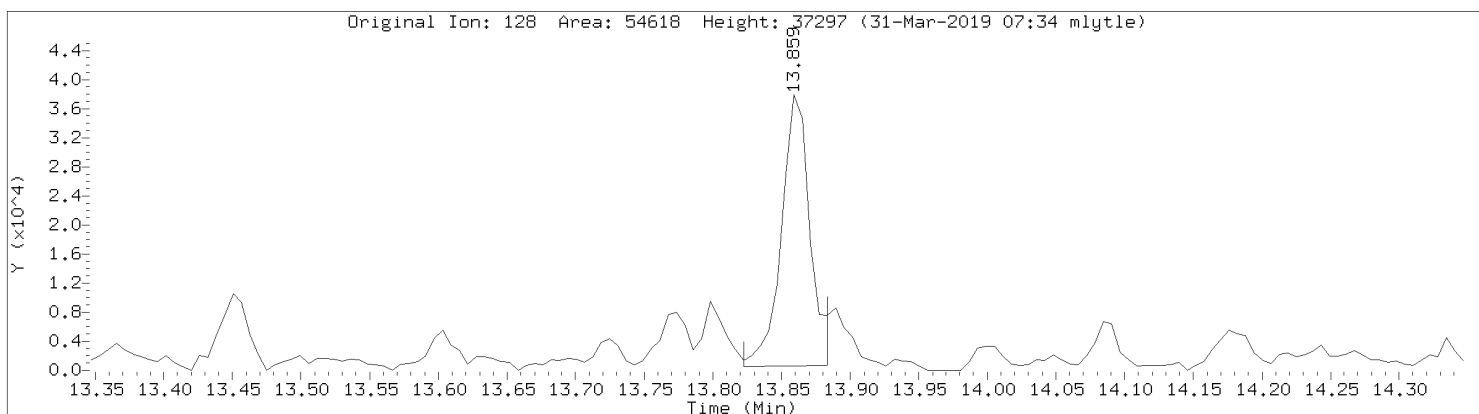


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08917.D
Injection Date: 30-MAR-2019 14:22
Instrument: 10airI.i
Lab Sample ID: 10468767005



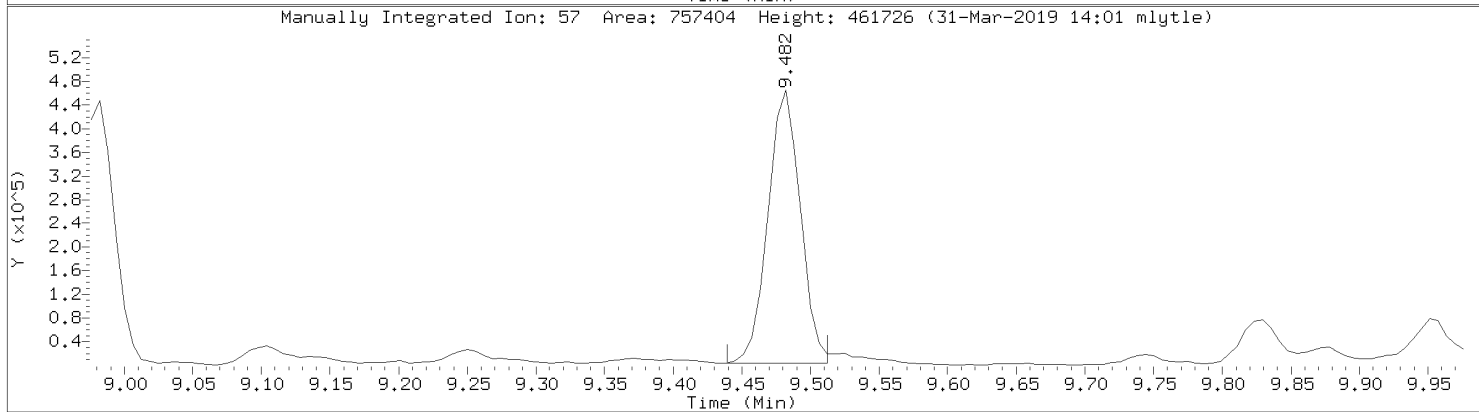
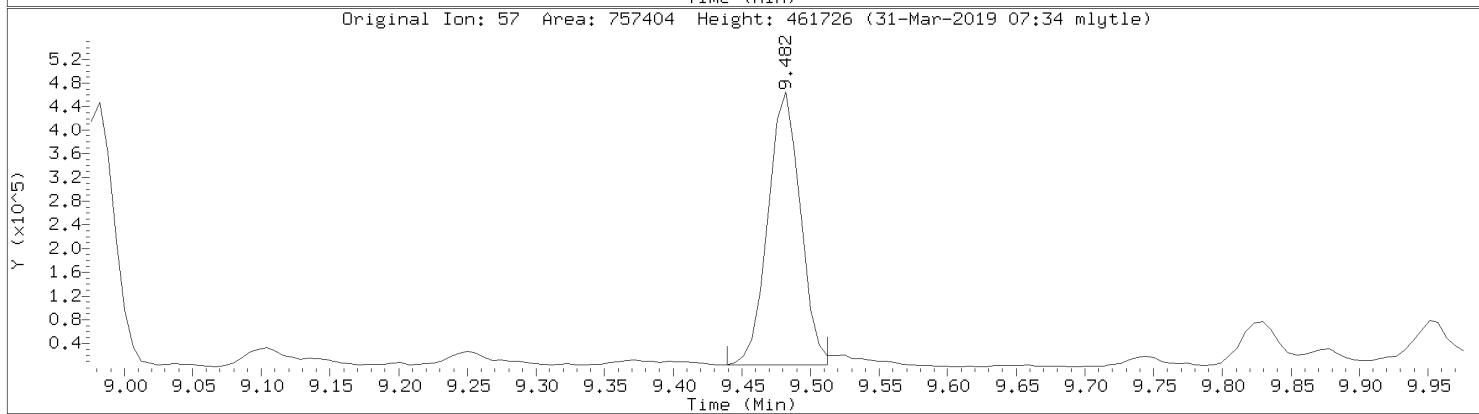
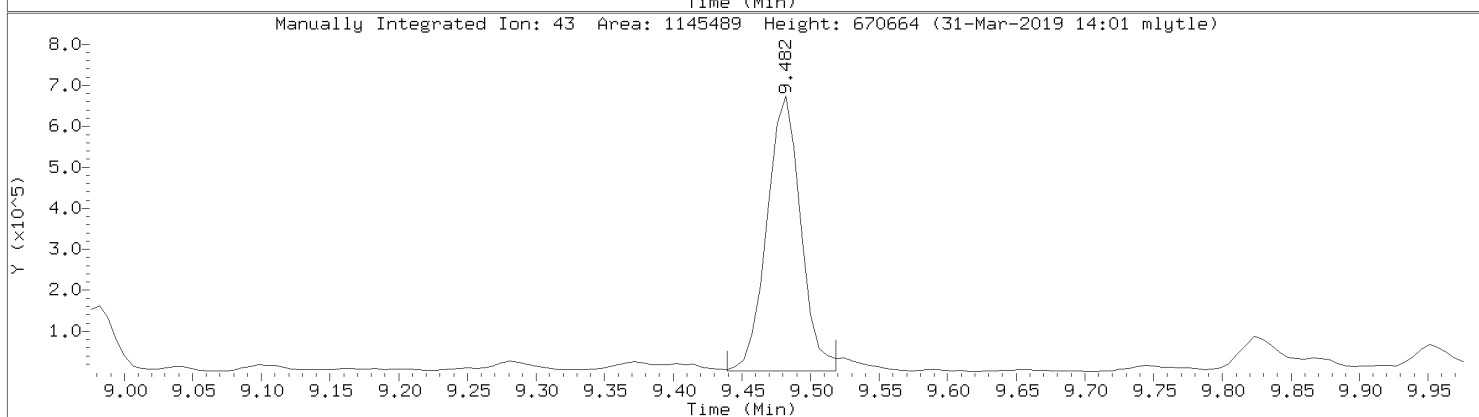
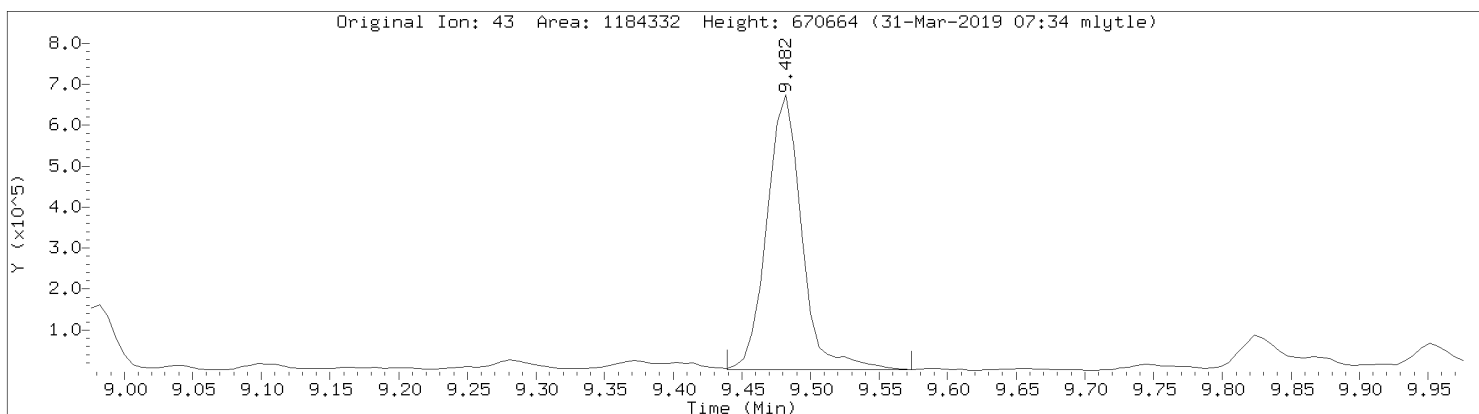
Data File: \\192.168.10.12\chem\10airI.i\033019.b\08917.D
Injection Date: 30-MAR-2019 14:22
Instrument: 10airI.i
Lab Sample ID: 10468767005

Compound: Naphthalene
CAS Number: 91-20-3

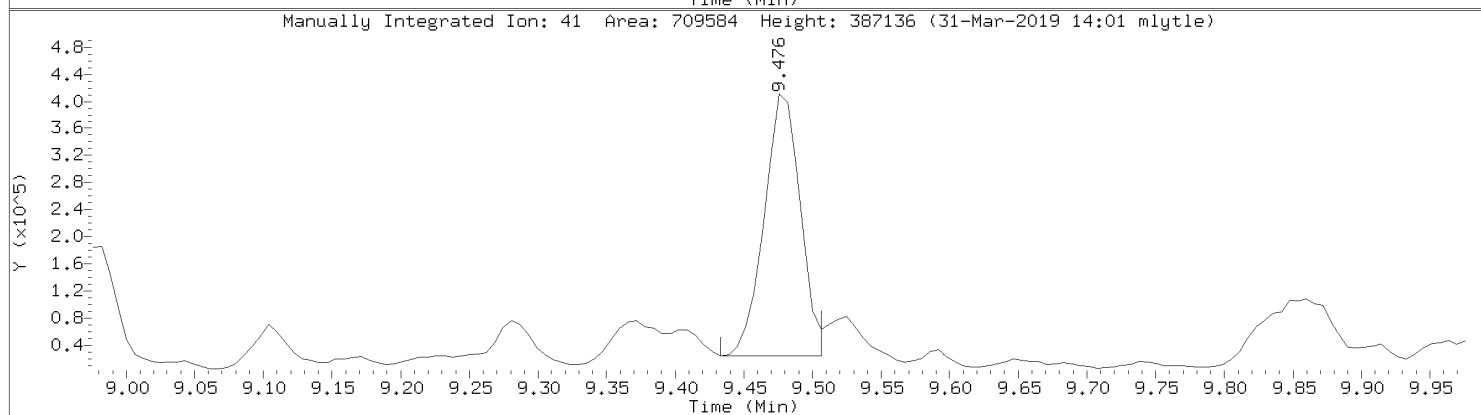
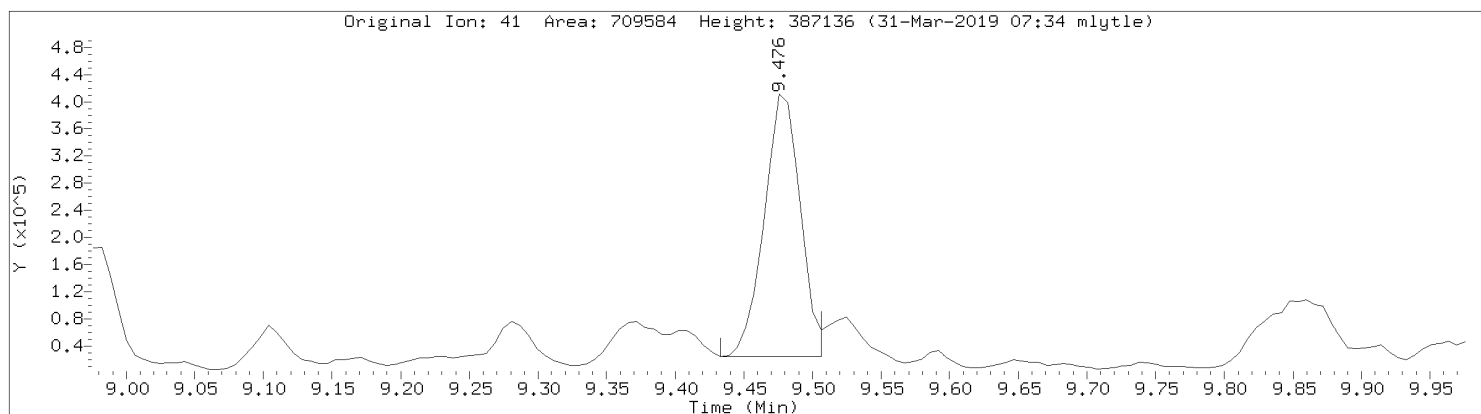


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08917.D
Injection Date: 30-MAR-2019 14:22
Instrument: 10airI.i
Lab Sample ID: 10468767005

Compound: n-Nonane
CAS Number: 111-84-2



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08917.D
Injection Date: 30-MAR-2019 14:22
Instrument: 10airI.i
Lab Sample ID: 10468767005



Data File: \\192.168.10.12\chem\10airH.i\033119.b\09026.D
Report Date: 01-Apr-2019 10:20

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airH.i\033119.b\09026.D
Lab Smp Id: 10468767007
Inj Date : 31-MAR-2019 18:00
Operator : MJL Inst ID: 10airH.i
Smp Info :
Misc Info : 33312
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airH.i\033119.b\TO15_084-19.m
Meth Date : 01-Apr-2019 10:18 mlytle Quant Type: ISTD
Cal Date : 25-MAR-2019 10:53 Cal File: 08412.D
Als bottle: 26
Dil Factor: 1.49000
Integrator: HP RTE Compound Sublist: 124TCB.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.490	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS					
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)
26 Carbon Disulfide	76		3.919	3.916	(0.720)	81797	2.19316	3.27
37 Chloroform	83		4.675	4.671	(0.859)	106203	3.28150	4.89
* 45 1,4-Difluorobenzene	114		5.440	5.433	(1.000)	342765	10.0000	
57 Toluene	91		6.945	6.938	(1.277)	24041	0.50544	0.753
* 64 Chlorobenzene - d5	117		8.430	8.427	(1.000)	290356	10.0000	
76 1,3,5-Trimethylbenzene	105		10.690	10.687	(1.268)	2758	0.05116	0.0762
79 1,2,4-Trimethylbenzene	105		11.182	11.179	(1.326)	3942	0.07166	0.107

Data File: \\192.168.10.12\chem\10airH.i\033119.b\09026.D
Report Date: 01-Apr-2019 10:20

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airH.i
Lab File ID: 09026.D
Lab Smp Id: 10468767007
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airH.i\033119.b\TO15_084-19.m
Misc Info: 33312

Calibration Date: 31-MAR-2019
Calibration Time: 07:42

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	451734	271040	632428	342765	-24.12
64 Chlorobenzene - d	397119	238271	555967	290356	-26.88

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.43	5.10	5.76	5.44	0.12
64 Chlorobenzene - d	8.43	8.10	8.76	8.43	0.04

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

Data File: \\192.168.10.12\chem\10airH.i\033119.b\09026.D

Date : 31-MAR-2019 18:00

Client ID:

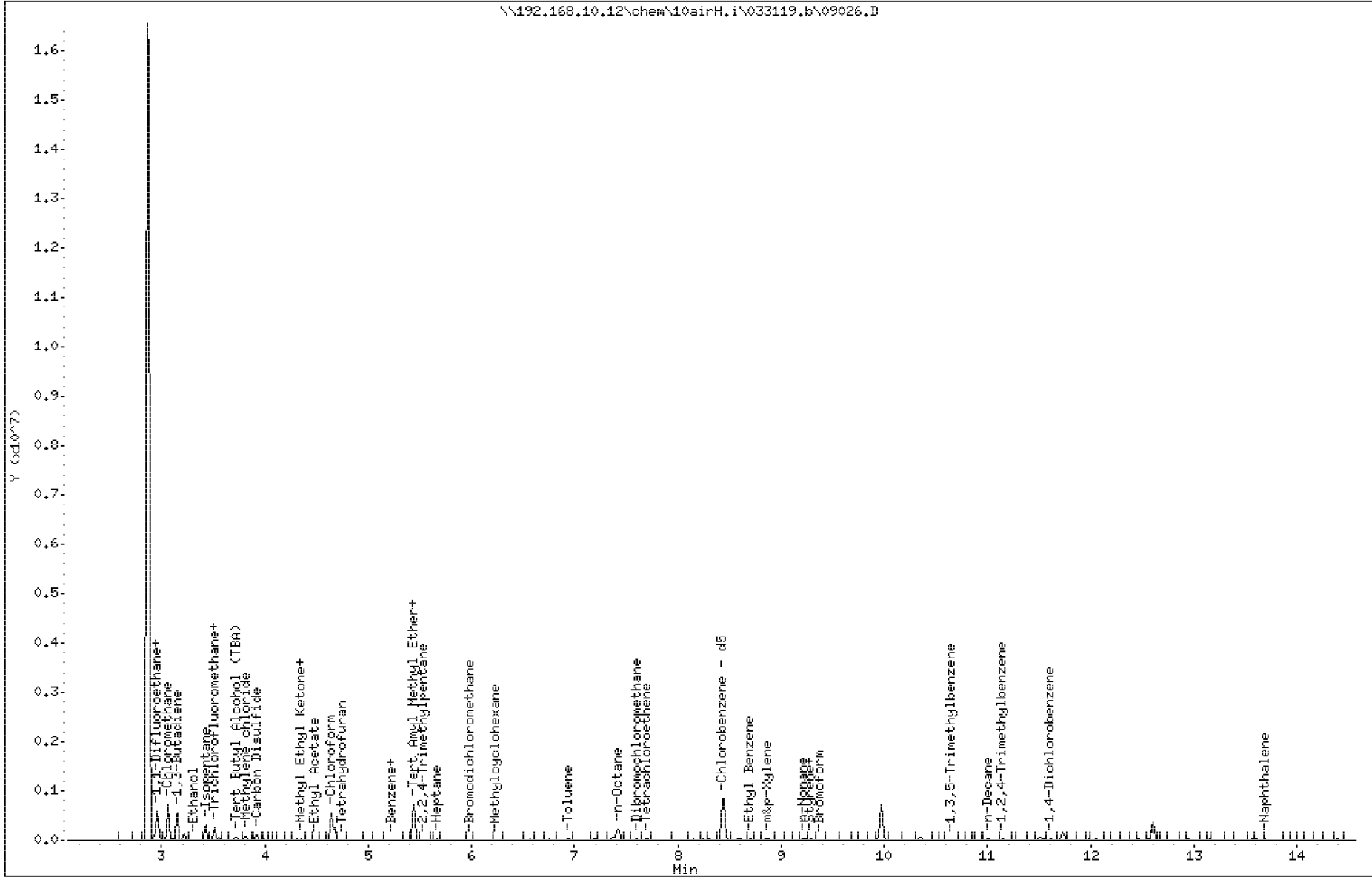
Sample Info:

Column phase: ZB-5MSplus SN338857

Instrument: 10airH.i

Operator: MJL

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09026.D

Date : 31-MAR-2019 18:00

Client ID:

Instrument: 10airH.i

Sample Info:

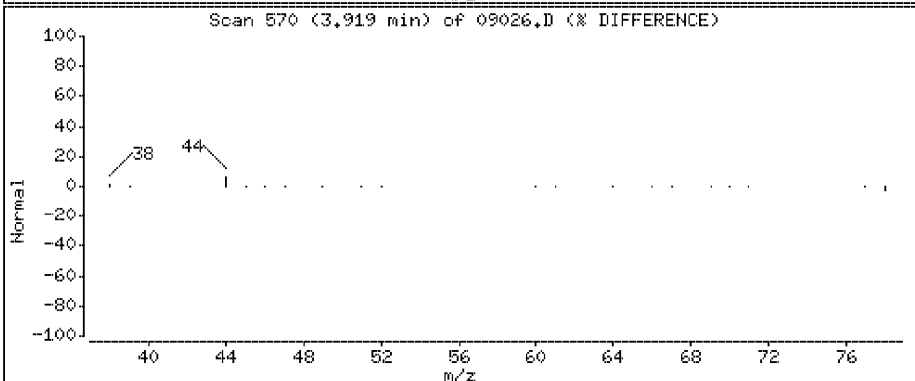
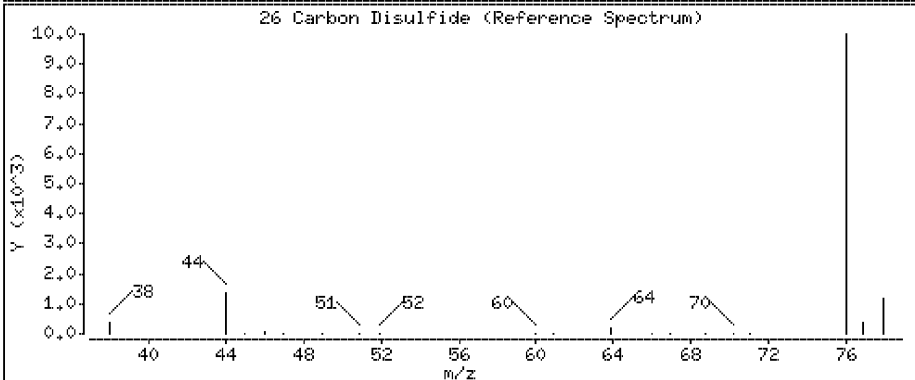
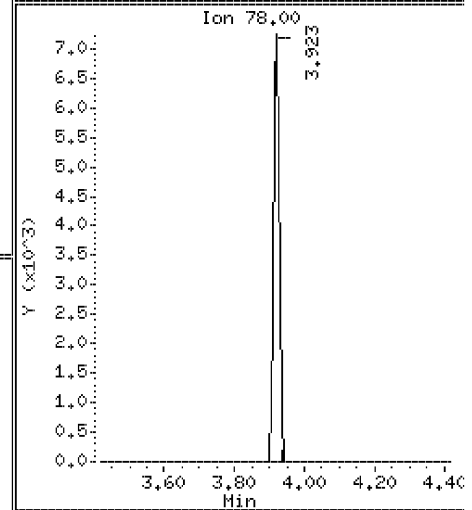
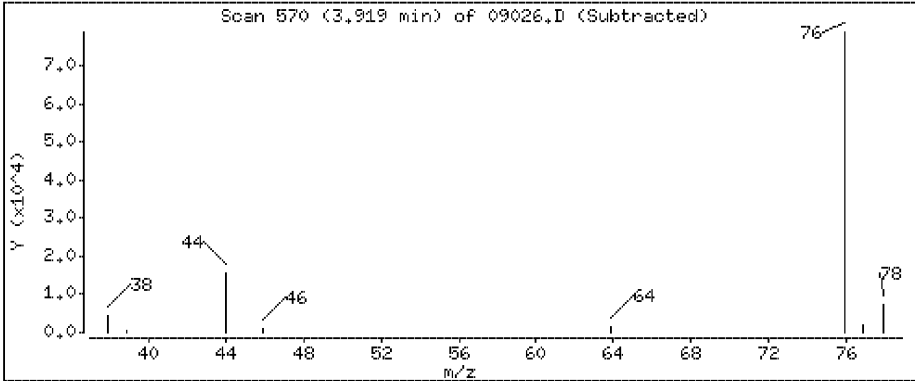
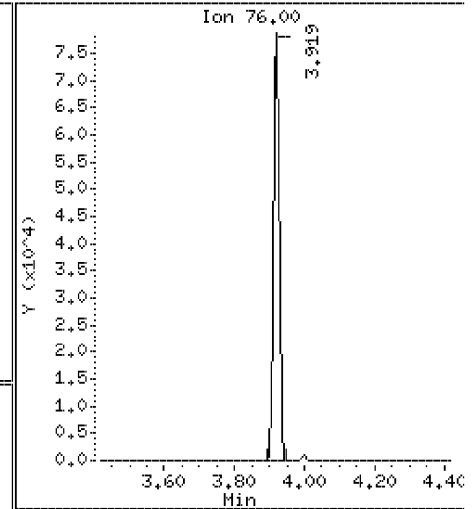
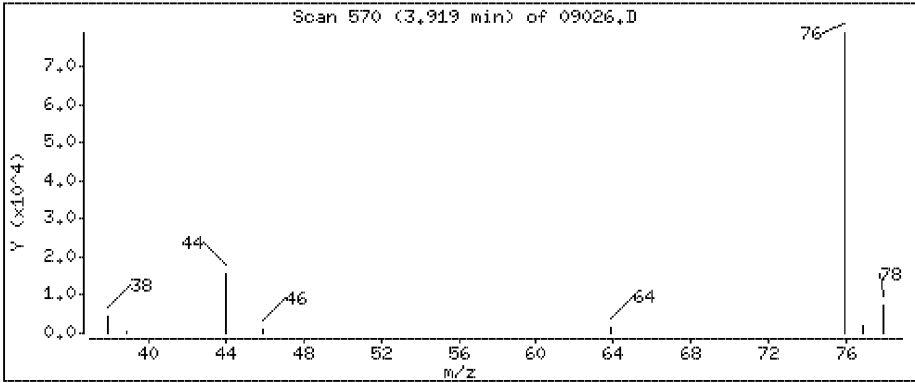
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0.32

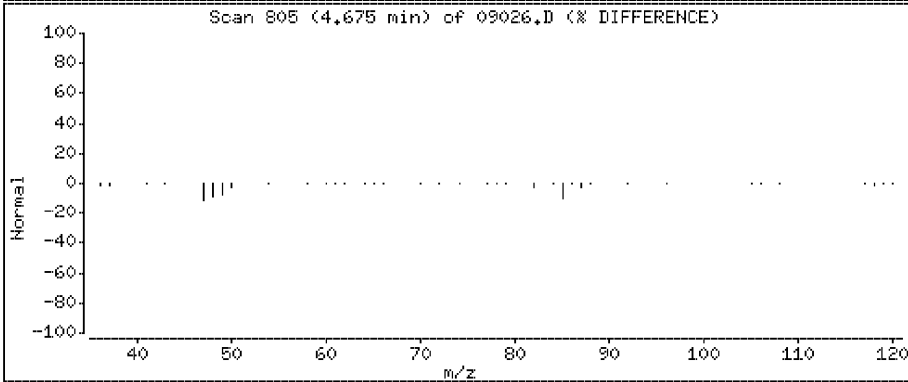
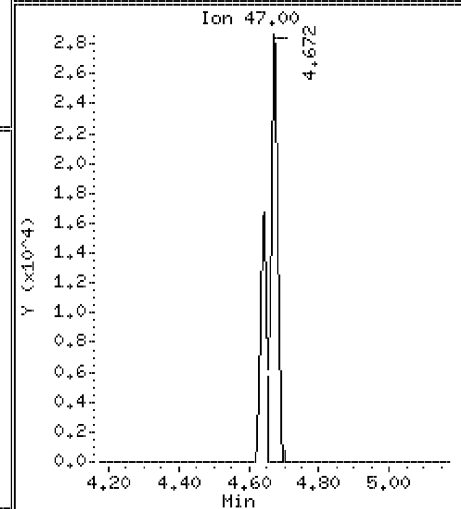
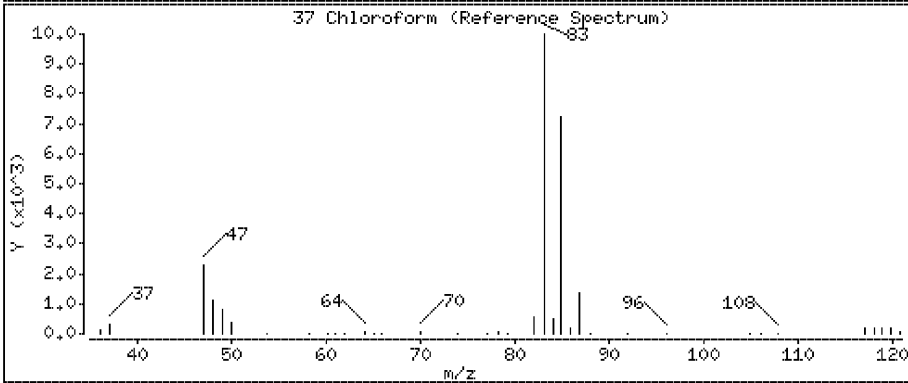
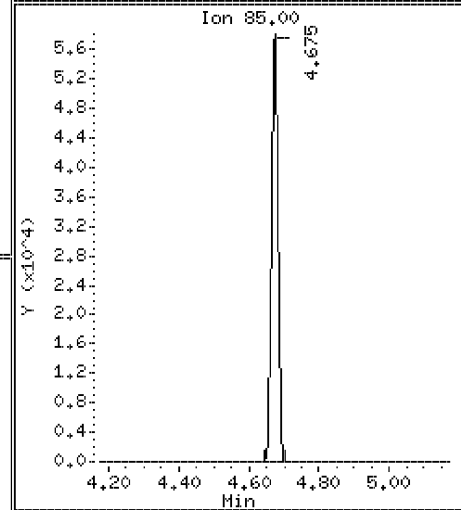
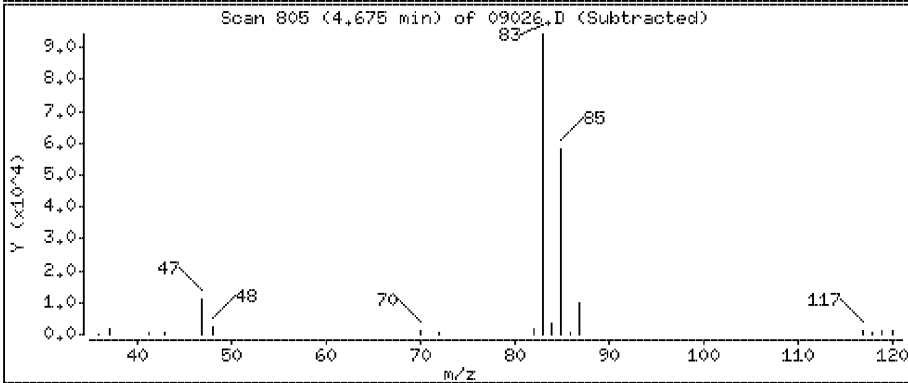
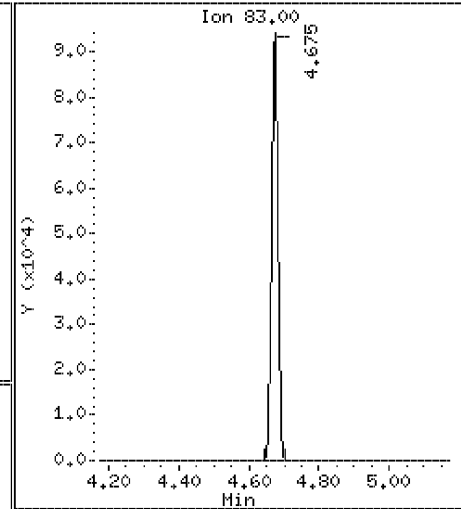
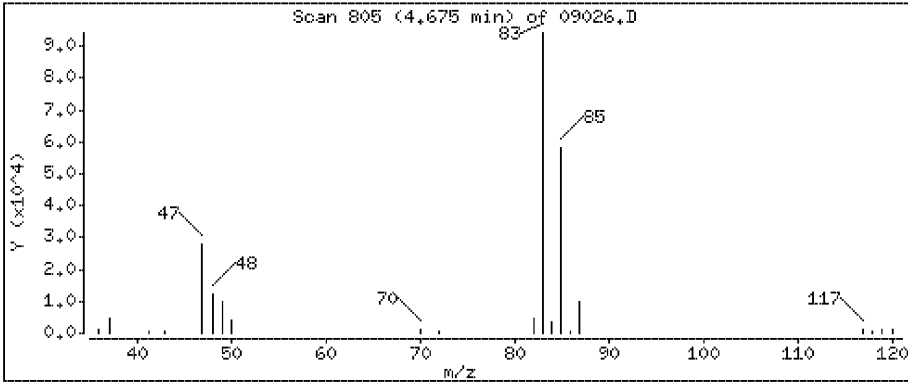
26 Carbon Disulfide

Concentration: 3.27 ppbv



37 Chloroform

Concentration: 4.89 ppbv



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09026.D

Date : 31-MAR-2019 18:00

Client ID:

Instrument: 10airH.i

Sample Info:

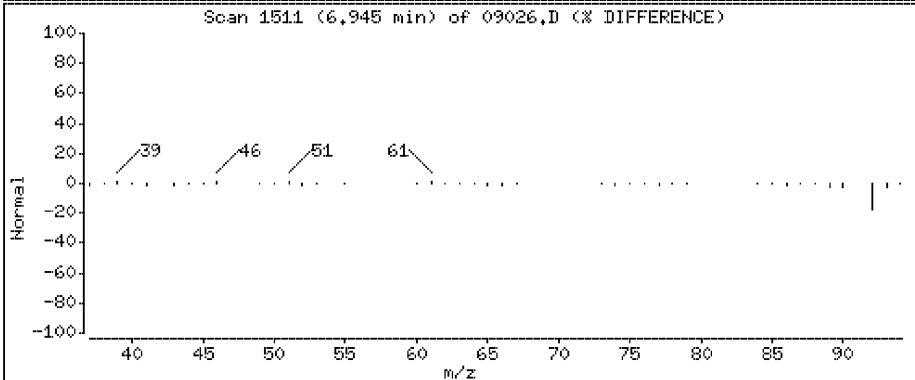
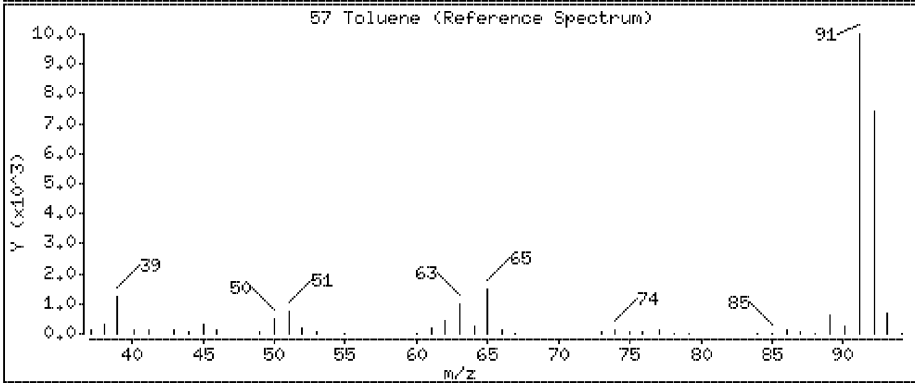
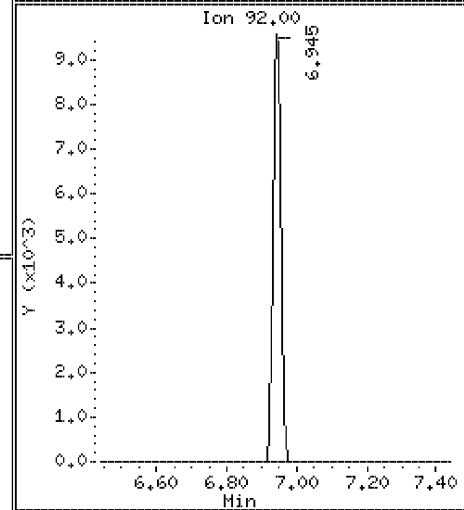
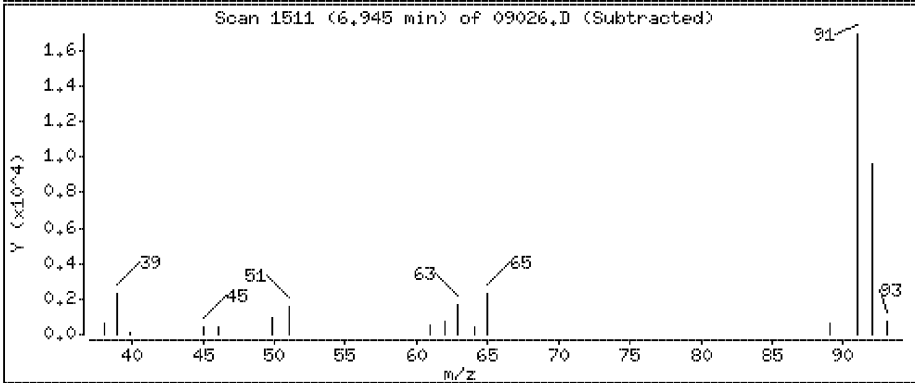
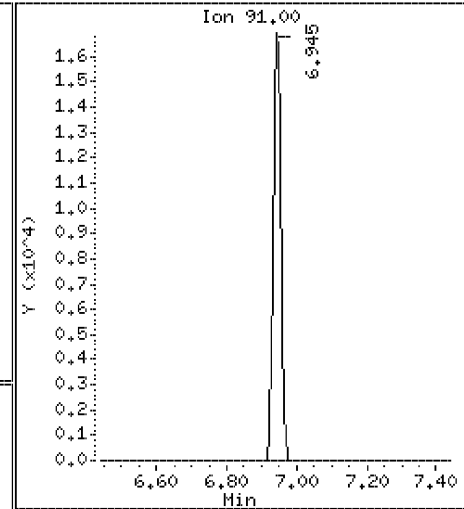
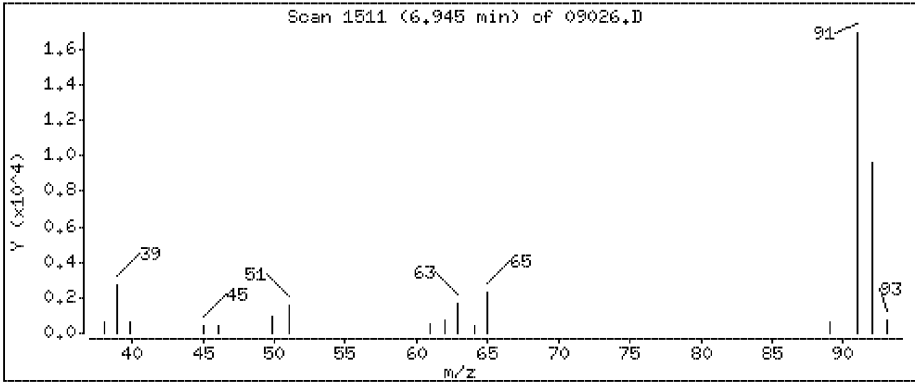
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0,32

57 Toluene

Concentration: 0,753 ppbv



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09026.D

Date : 31-MAR-2019 18:00

Client ID:

Instrument: 10airH.i

Sample Info:

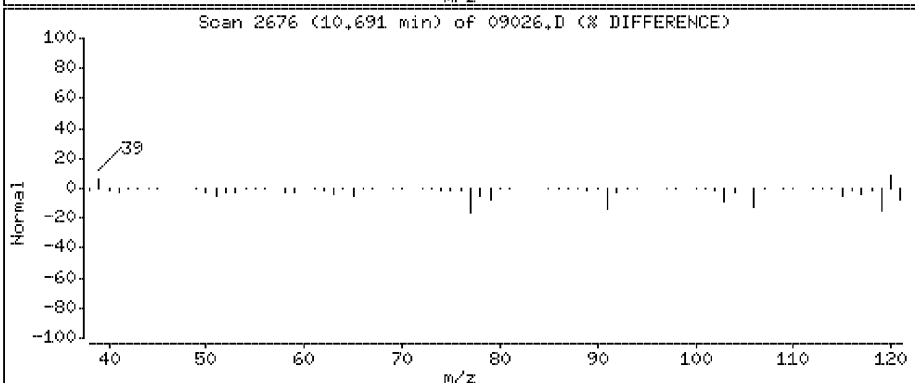
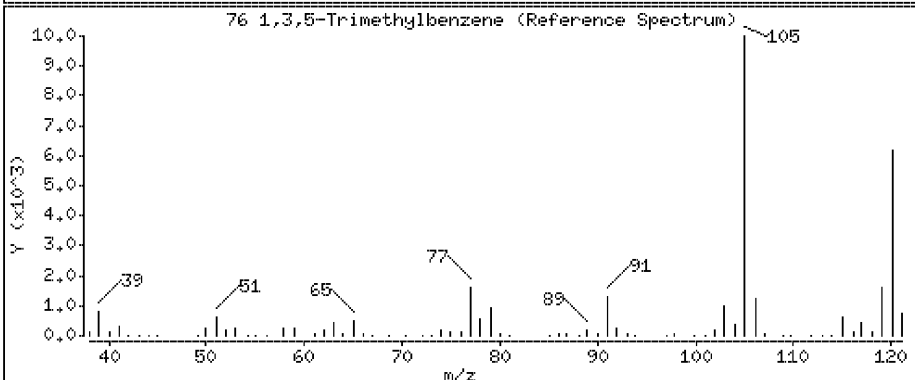
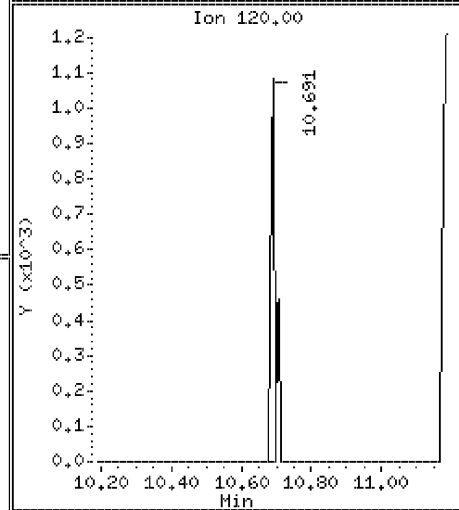
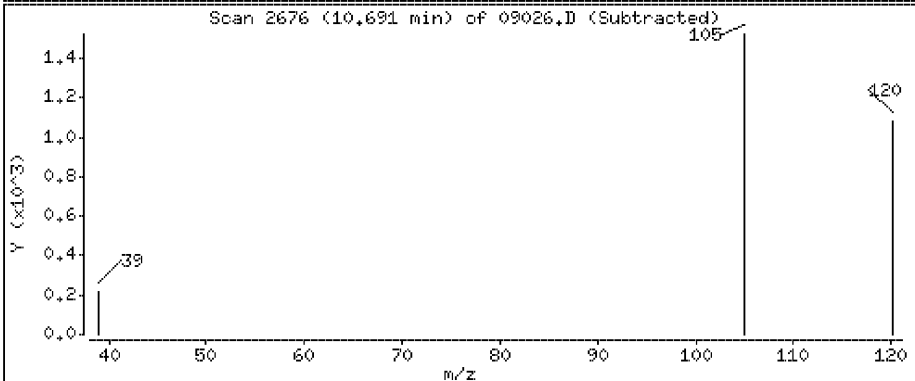
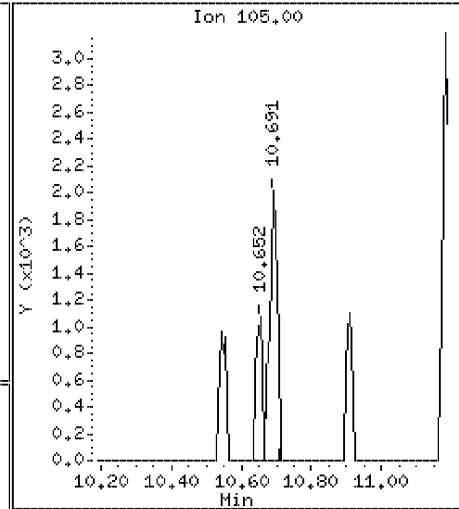
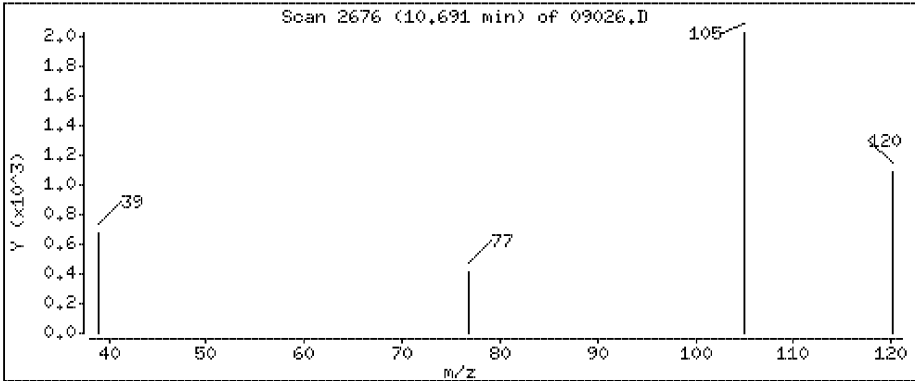
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0.32

76 1,3,5-Trimethylbenzene

Concentration: 0.0762 ppbv



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09026.D

Date : 31-MAR-2019 18:00

Client ID:

Instrument: 10airH.i

Sample Info:

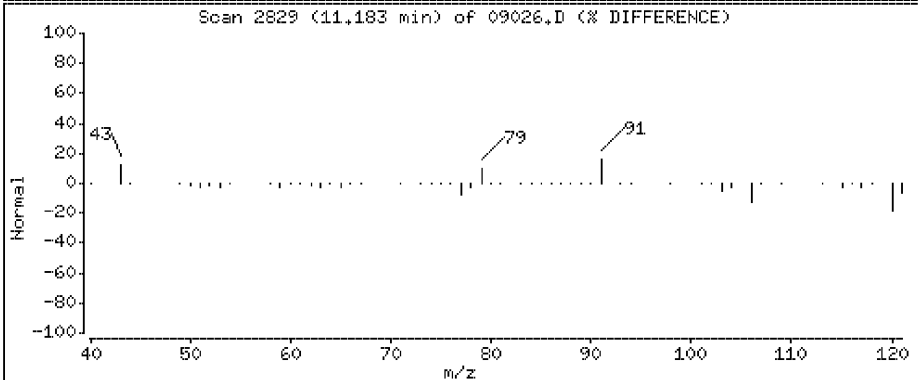
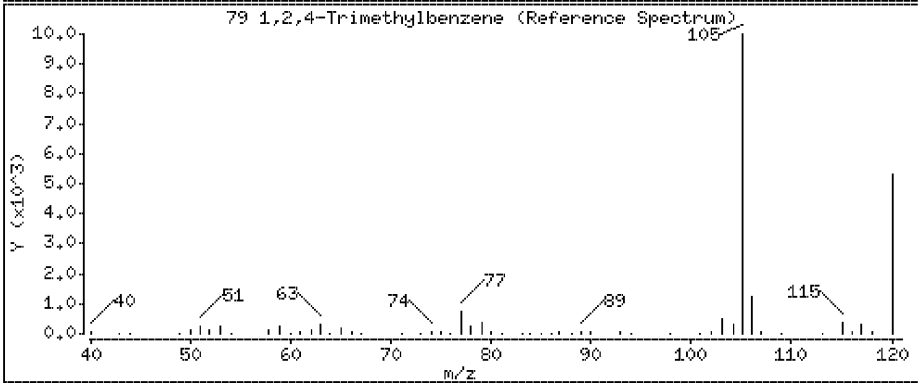
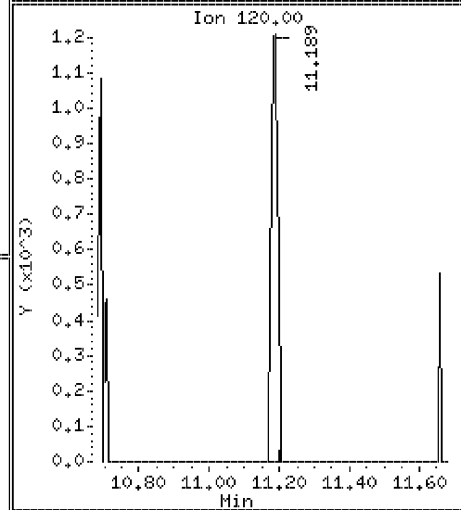
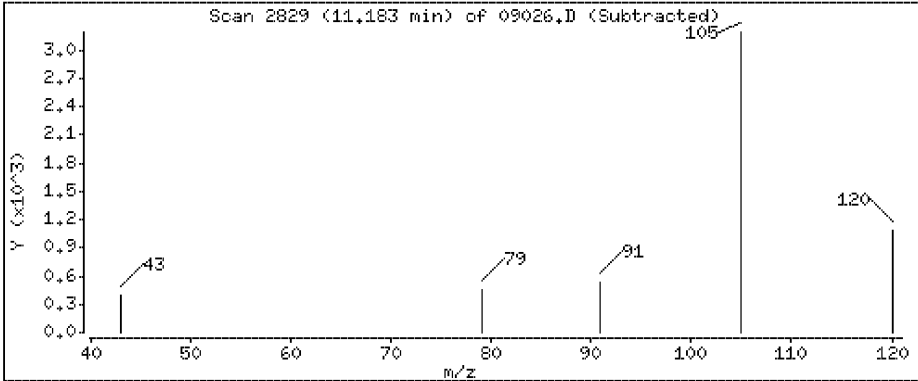
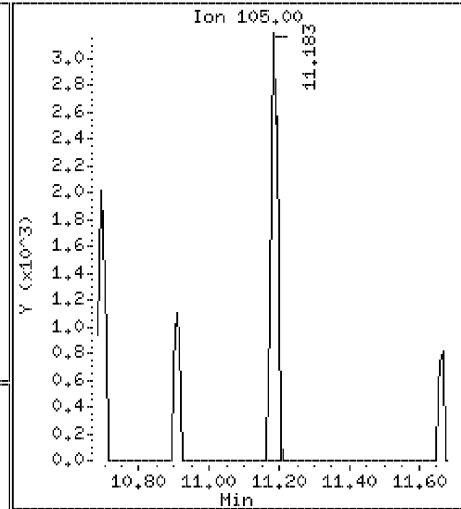
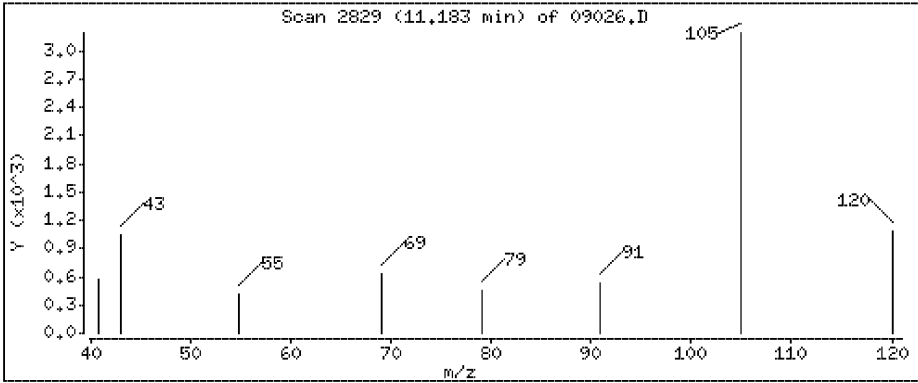
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0,32

79 1,2,4-Trimethylbenzene

Concentration: 0,107 ppbv



Data File: \\192.168.10.12\chem\10airH.i\033119.b\09026.D
Injection Date: 31-MAR-2019 18:00
Instrument: 10airH.i
Lab Sample ID: 10468767007
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\033019.b\08918.D
 Lab Smp Id: 10468767007
 Inj Date : 30-MAR-2019 14:51
 Operator : MJL Inst ID: 10airI.i
 Smp Info :
 Misc Info : 33312
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Meth Date : 31-Mar-2019 13:48 mlytle Quant Type: ISTD
 Cal Date : 30-MAR-2019 10:33 Cal File: 08909.D
 Als bottle: 18
 Dil Factor: 1.49000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.490	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ppbv)	FINAL (ppbv)	
1 1,1-Difluoroethane	65		3.019	3.013	(0.536)	53029	2.05041	3.06	
2 Chlorodifluoromethane	67		Compound Not Detected.						(D)
3 Propylene	41		Compound Not Detected.						(D)
4 Dichlorodifluoromethane	85		3.068	3.068	(0.545)	30413	0.26345	0.393	
5 Dichlorotetrafluoroethane	85		Compound Not Detected.						
6 Chloromethane	50		3.147	3.147	(0.559)	8502	0.17069	0.254 (MH)	
7 Vinyl chloride	62		Compound Not Detected.						(D)
8 1,3-Butadiene	54		Compound Not Detected.						(D)
9 Bromomethane	94		Compound Not Detected.						
10 Chloroethane	64		Compound Not Detected.						
11 Ethanol	45		3.440	3.440	(0.611)	11805	0.63557	0.947	
12 Vinyl Bromide	106		Compound Not Detected.						
13 Isopentane	43		3.556	3.556	(0.632)	142268	3.14304	4.68	
14 Freon 123	83		Compound Not Detected.						
15 Acrolein	56		Compound Not Detected.						(D)
16 Trichlorofluoromethane	101		3.635	3.635	(0.646)	15903	0.16151	0.241	
17 Acetone	43		3.647	3.653	(0.648)	420011	4.00695	5.97	
18 Isopropyl Alcohol	45		3.659	3.659	(0.650)	29657	0.39350	0.586 (Q)	
19 Tert Butyl Alcohol (TBA)	59		Compound Not Detected.						(D)
20 Acrylonitrile	53		Compound Not Detected.						
21 1,1-Dichloroethene	61		Compound Not Detected.						(D)
22 Methyl Acetate	43		Compound Not Detected.						
23 Freon 113	101		3.903	3.903	(0.693)	2940	0.03654	0.0544 (a)	

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)
24 Methylene chloride	49		3.958	3.959	(0.703)	69522	0.69351	1.03	
25 Allyl Chloride	76		Compound Not Detected.						
26 Carbon Disulfide	76		4.080	4.080	(0.725)	189213	1.73448	2.58	
27 trans-1,2-dichloroethene	96		4.226	4.226	(0.751)	1977	0.04929	0.0734 (aQ)	
28 Methyl Tert Butyl Ether	73		Compound Not Detected.						
29 Vinyl Acetate	43		Compound Not Detected.						(D)
30 1,1-Dichloroethane	63		Compound Not Detected.						(D)
31 Methyl Ethyl Ketone	72		4.513	4.513	(0.802)	3181	0.13123	0.196	
32 n-Hexane	57		4.549	4.549	(0.808)	10805	0.14102	0.210 (Q)	
33 Di-isopropyl Ether	45		Compound Not Detected.						
34 Ethyl Acetate	43		4.689	4.690	(0.833)	23276	0.16918	0.252 (Q)	
35 cis-1,2-Dichloroethene	96		Compound Not Detected.						
36 Ethyl Tert-Butyl Ether	59		Compound Not Detected.						
37 Chloroform	83		4.805	4.805	(0.854)	251854	2.74605	4.09 (Q)	
38 Tetrahydrofuran	42		4.970	4.964	(0.883)	7292	0.12025	0.179 (Q)	
39 1,1,1-Trichloroethane	97		Compound Not Detected.						(D)
40 1,2-Dichloroethane	62		Compound Not Detected.						
41 Benzene	78		5.464	5.458	(0.971)	6917	0.05595	0.0834	
42 Carbon tetrachloride	117		5.482	5.476	(0.974)	4184	0.04517	0.0673 (aQ)	
43 Cyclohexane	56		5.482	5.482	(0.974)	6893	0.09009	0.134 (QM)	
44 Tert Amyl Methyl Ether	73		Compound Not Detected.						(D)
* 45 1,4-Difluorobenzene	114		5.628	5.628	(1.000)	963372	10.0000		
46 2,2,4-Trimethylpentane	57		Compound Not Detected.						(D)
47 Heptane	43		Compound Not Detected.						(D)
48 1,2-Dichloropropane	63		Compound Not Detected.						
49 Trichloroethene	130		Compound Not Detected.						
50 Methyl methacrylate	69		Compound Not Detected.						(D)
51 1,4-Dioxane	88		Compound Not Detected.						
52 Bromodichloromethane	83		6.110	6.110	(1.086)	16578	0.17326	0.258	
53 Methylcyclohexane	98		6.457	6.458	(1.147)	4687	0.14666	0.219 (Q)	
54 Methyl Isobutyl Ketone	43		Compound Not Detected.						
55 cis-1,3-Dichloropropene	75		Compound Not Detected.						
56 trans-1,3-Dichloropropene	75		Compound Not Detected.						
57 Toluene	91		7.201	7.195	(1.279)	61912	0.43456	0.647	
58 1,1,2-Trichloroethane	97		Compound Not Detected.						(D)
59 Methyl Butyl Ketone	43		Compound Not Detected.						(D)
60 n-Octane	43		7.634	7.634	(0.879)	58937	0.43691	0.651 (M)	
61 Dibromochloromethane	129		7.738	7.744	(0.891)	3438	0.05108	0.0761	
62 1,2-Dibromoethane	107		Compound Not Detected.						
63 Tetrachloroethene	166		8.030	8.036	(0.925)	6595	0.11369	0.169	
* 64 Chlorobenzene - d5	117		8.683	8.683	(1.000)	808041	10.0000		
65 Chlorobenzene	112		Compound Not Detected.						(D)
66 Ethyl Benzene	91		8.969	8.963	(1.033)	11635	0.06679	0.0995	
67 m&p-Xylene	91		9.103	9.103	(1.048)	28479	0.21474	0.320	
68 n-Nonane	43		9.475	9.475	(1.091)	31010	0.23043	0.343 (M)	
69 Bromoform	173		9.512	9.506	(1.095)	2461	0.30396	0.453 (Q)	
70 Styrene	104		9.524	9.524	(1.097)	3970	0.04280	0.0638 (aQ)	
71 o-Xylene	91		9.591	9.591	(1.105)	14627	0.10759	0.160	
72 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.						
73 Isopropylbenzene	105		Compound Not Detected.						(D)
74 N-Propylbenzene	91		Compound Not Detected.						
75 4-Ethyltoluene	105		Compound Not Detected.						(D)
76 1,3,5-Trimethylbenzene	105		Compound Not Detected.						(D)
77 n-Decane	57		11.280	11.274	(2.004)	42605	0.36881	0.550 (QM)	
78 Tert-Butyl Benzene	119		Compound Not Detected.						

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
79 1,2,4-Trimethylbenzene	105		11.414	11.408	(1.315)	6533	0.04532	0.0675(a)
80 Sec- Butylbenzene	105		Compound Not Detected.					
81 1,3-Dichlorobenzene	146		Compound Not Detected.					(D)
82 Benzyl Chloride	91		Compound Not Detected.					
83 1,4-Dichlorobenzene	146		11.761	11.767	(1.355)	15664	0.21059	0.314
84 p-Isopropyltoluene	119		Compound Not Detected.					(D)
85 1,2,3-Trimethylbenzene	105		11.889	11.883	(1.369)	6629	0.04802	0.0715(aQ)
86 1,2-Dichlorobenzene	146		Compound Not Detected.					
87 N-Butylbenzene	91		12.286	12.273	(1.415)	4169	0.02614	0.0389(a)
88 1,2-Dibromo-3-Chloropropane	157		Compound Not Detected.					
89 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
90 Naphthalene	128		13.852	13.846	(1.595)	14711	0.13934	0.208
91 Hexachlorobutadiene	225		Compound Not Detected.					

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.
- D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08918.D
Report Date: 31-Mar-2019 14:06

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airI.i
Lab File ID: 08918.D
Lab Smp Id: 10468767007
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
Misc Info: 33312

Calibration Date: 30-MAR-2019
Calibration Time: 08:43

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	1148342	689005	1607679	963372	-16.11
64 Chlorobenzene - d	994820	596892	1392748	808041	-18.78

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.63	5.30	5.96	5.63	-0.00
64 Chlorobenzene - d	8.68	8.35	9.01	8.68	-0.00

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

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08918.D

Date : 30-MAR-2019 14:51

Client ID:

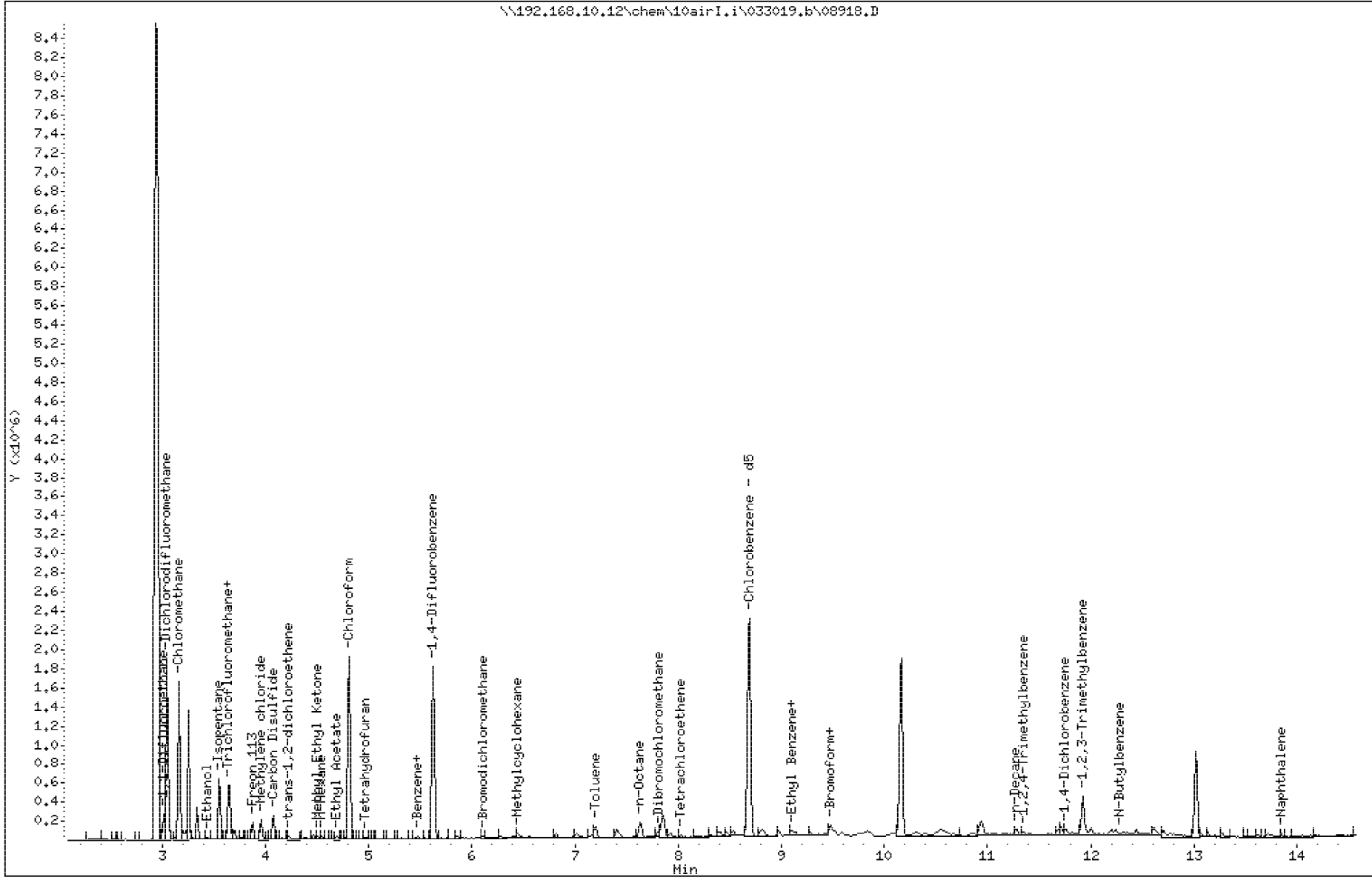
Instrument: 10airI.i

Sample Info:

Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08918.D

Date : 30-MAR-2019 14:51

Client ID:

Instrument: 10airI.i

Sample Info:

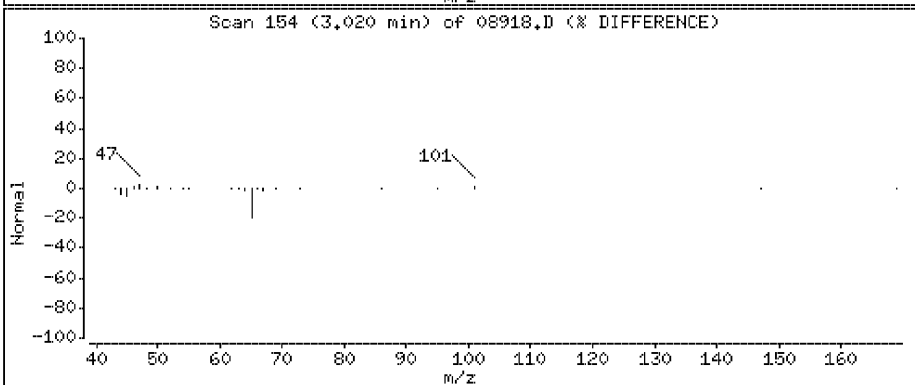
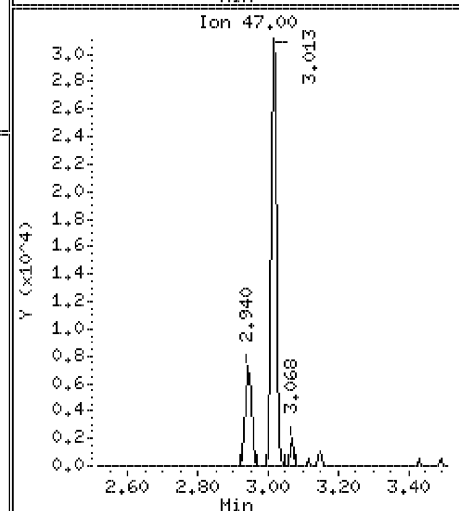
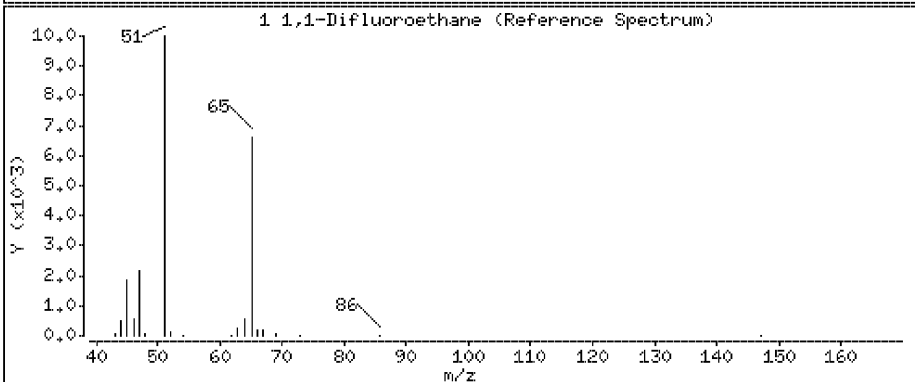
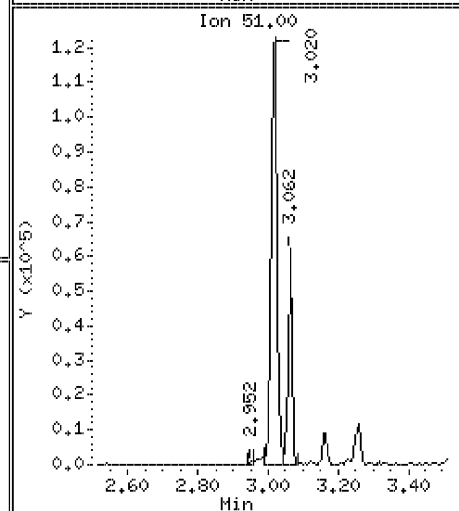
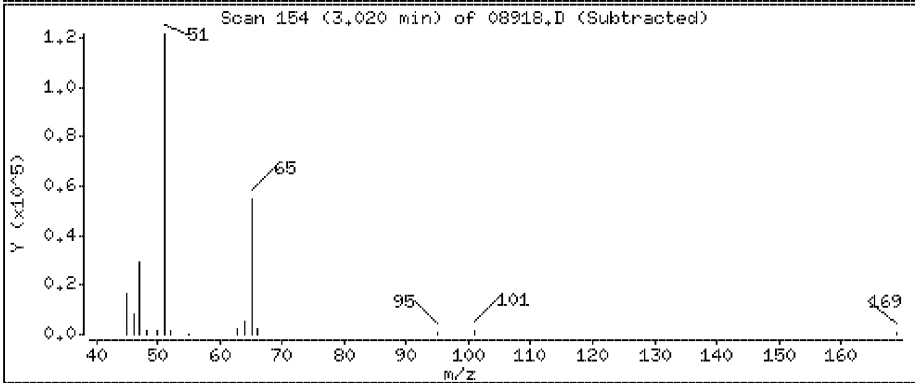
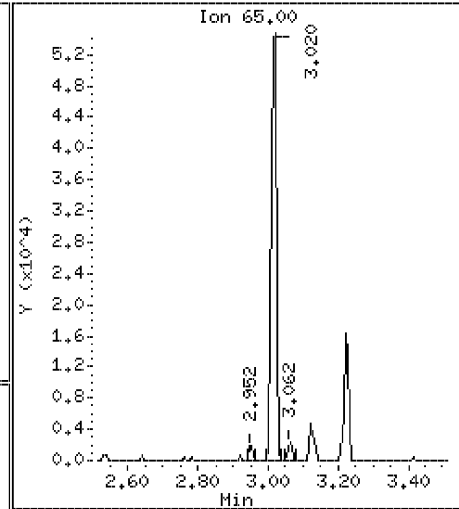
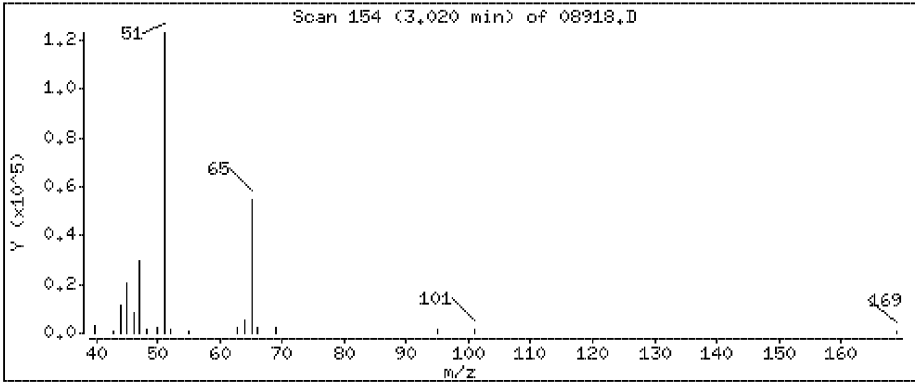
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

1,1,1-Difluoroethane

Concentration: 3.06 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08918.D

Date : 30-MAR-2019 14:51

Client ID:

Instrument: 10airI.i

Sample Info:

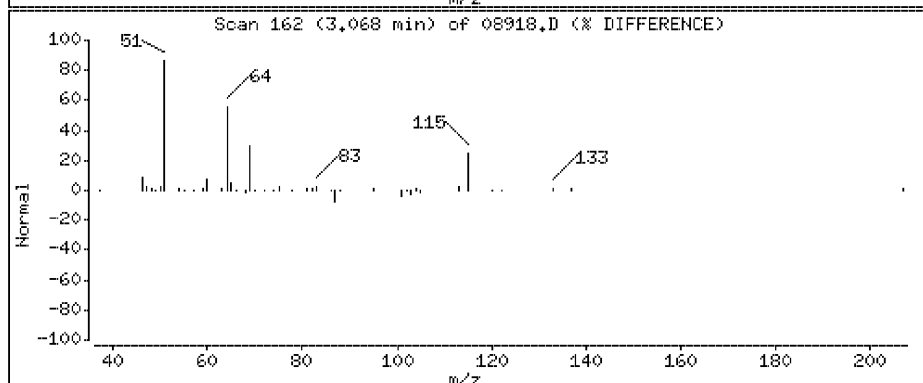
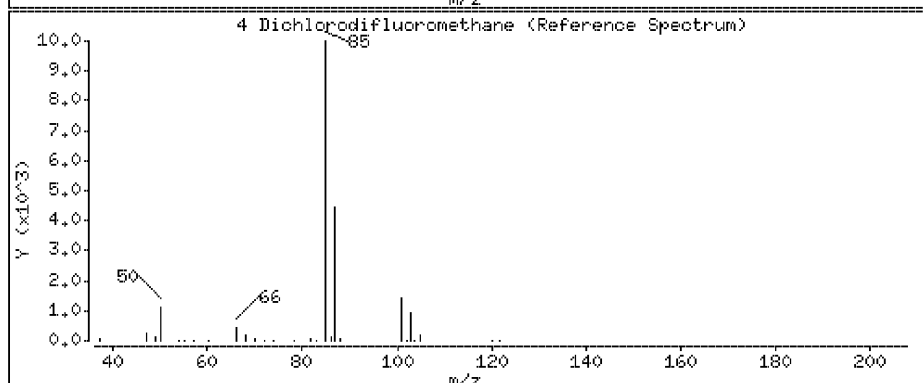
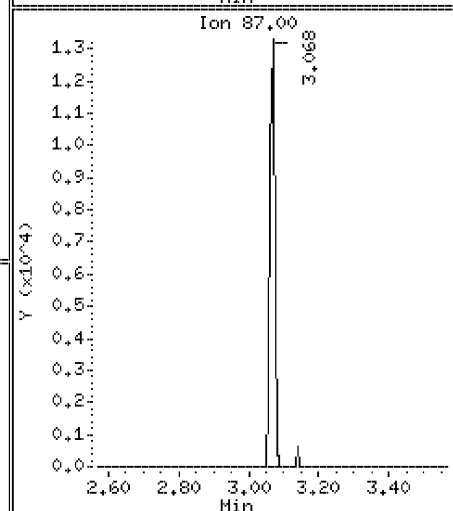
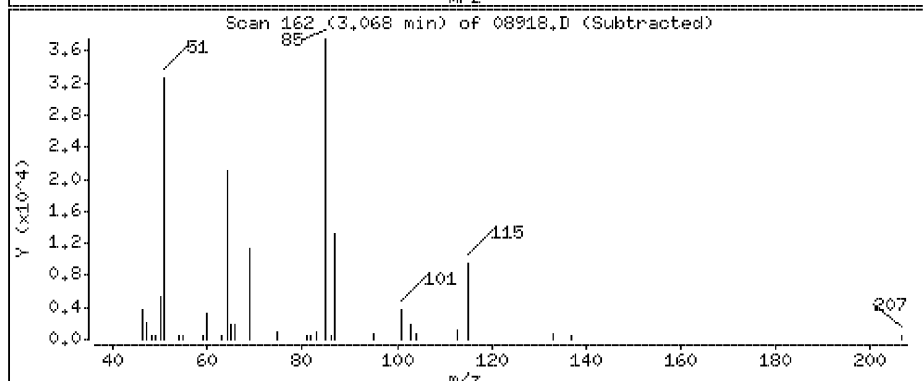
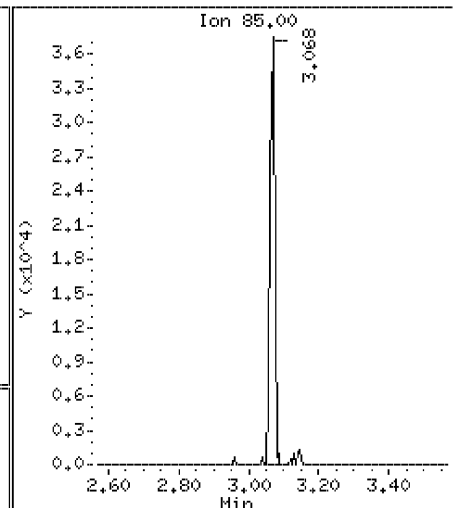
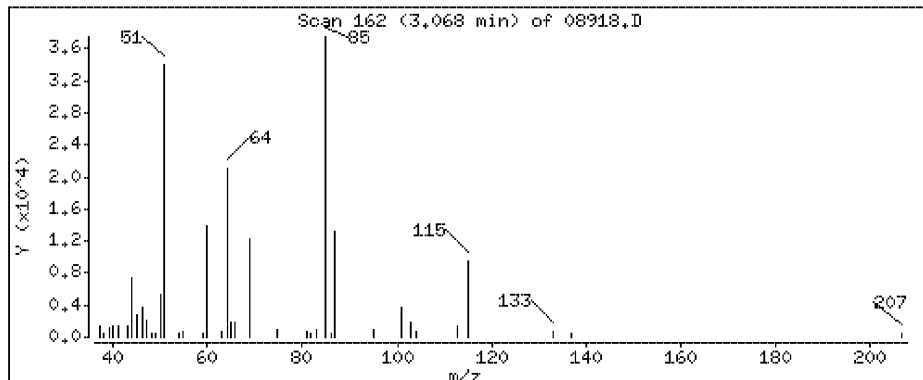
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

4 Dichlorodifluoromethane

Concentration: 0,393 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08918.D

Date : 30-MAR-2019 14:51

Client ID:

Instrument: 10airI.i

Sample Info:

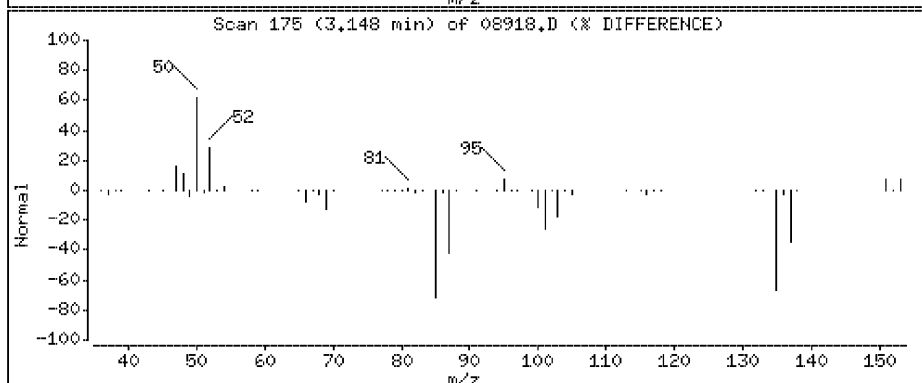
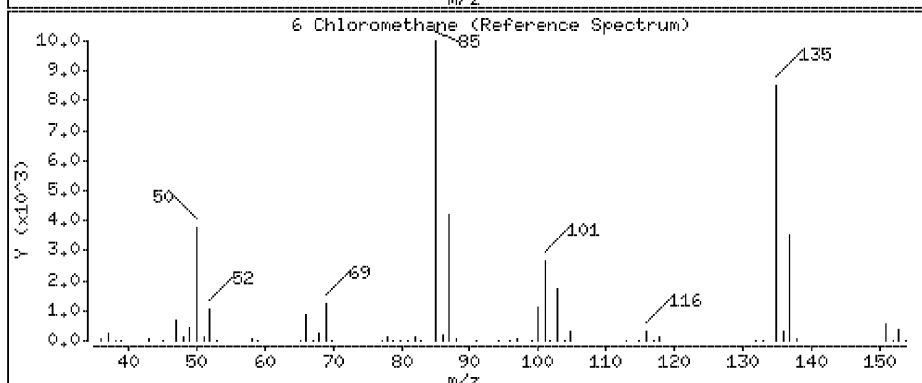
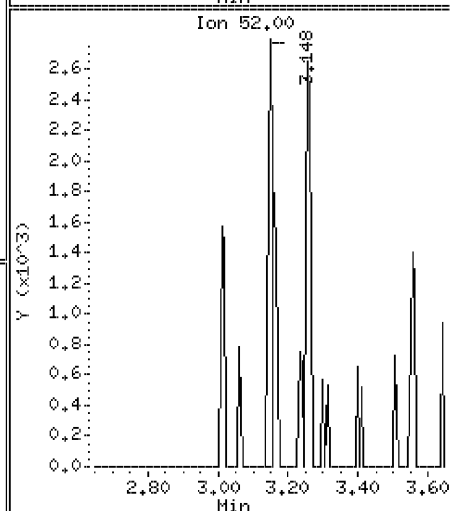
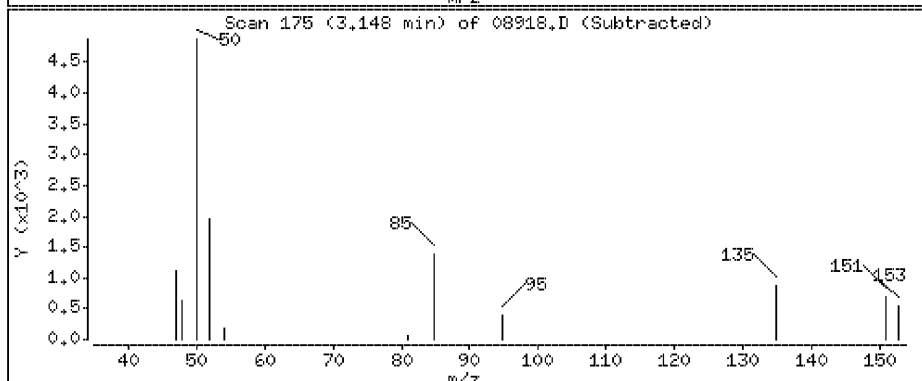
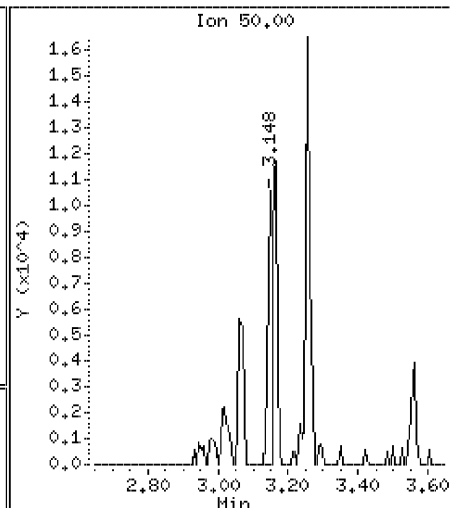
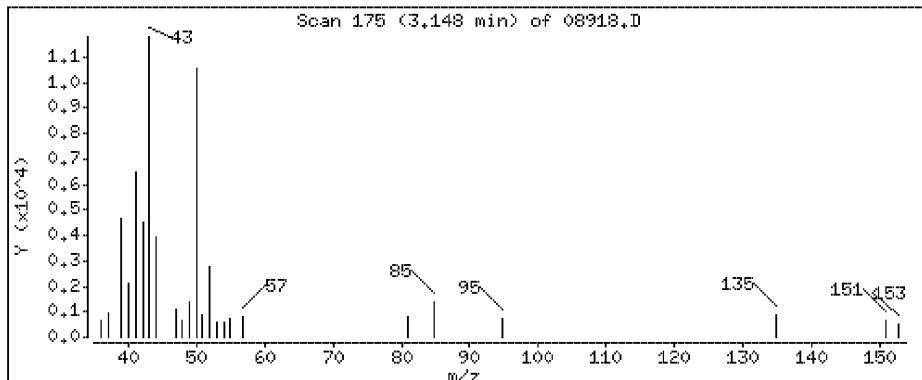
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

6 Chloromethane

Concentration: 0,254 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08918.D

Date : 30-MAR-2019 14:51

Client ID:

Instrument: 10airI.i

Sample Info:

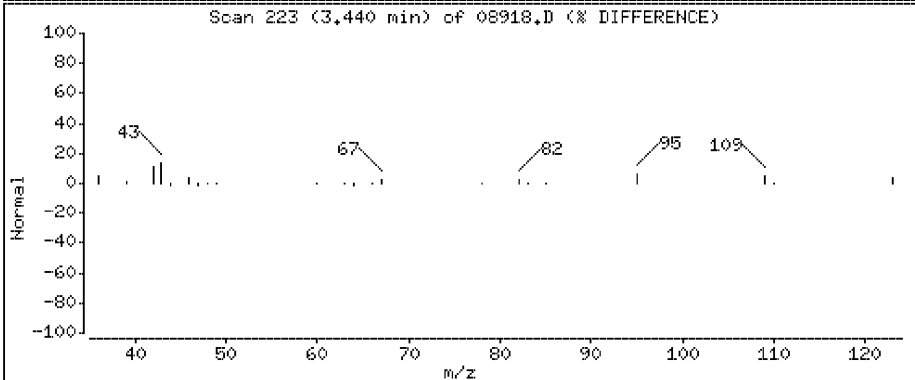
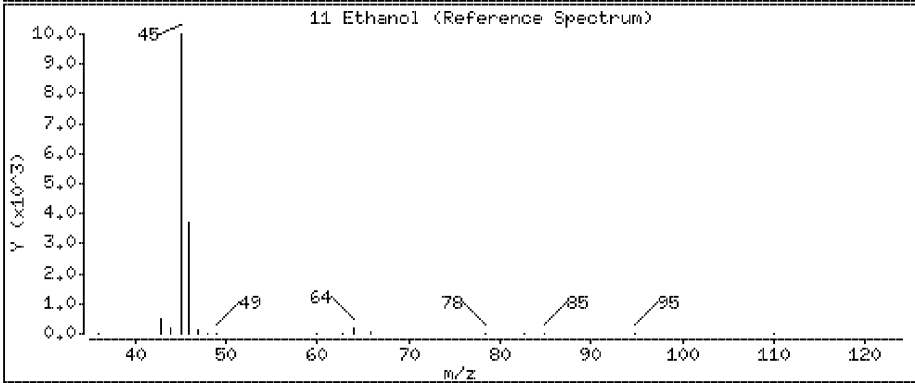
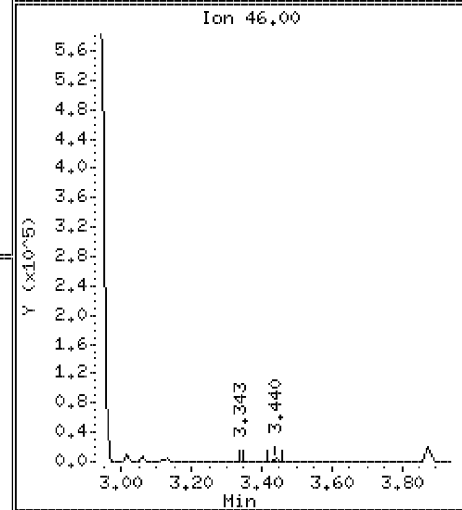
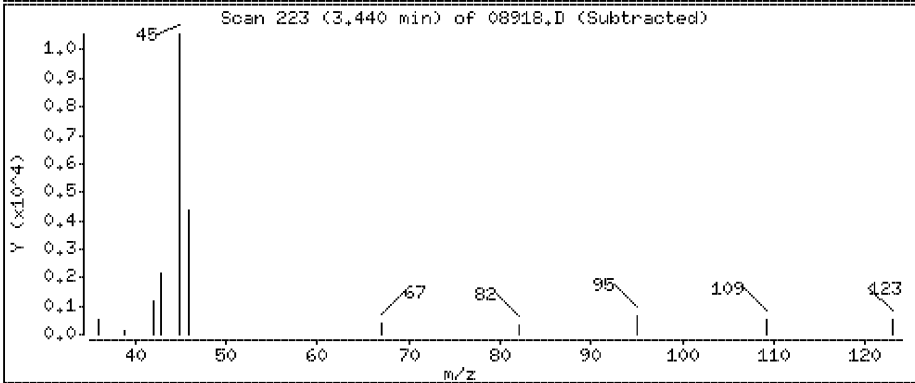
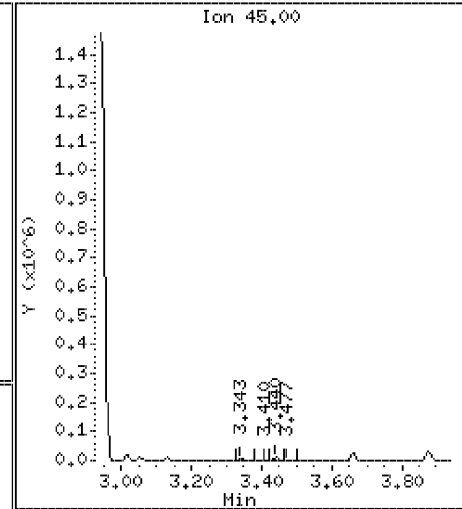
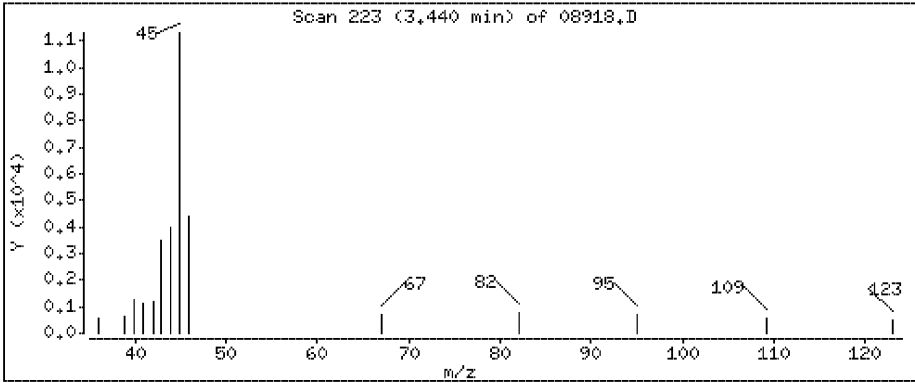
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

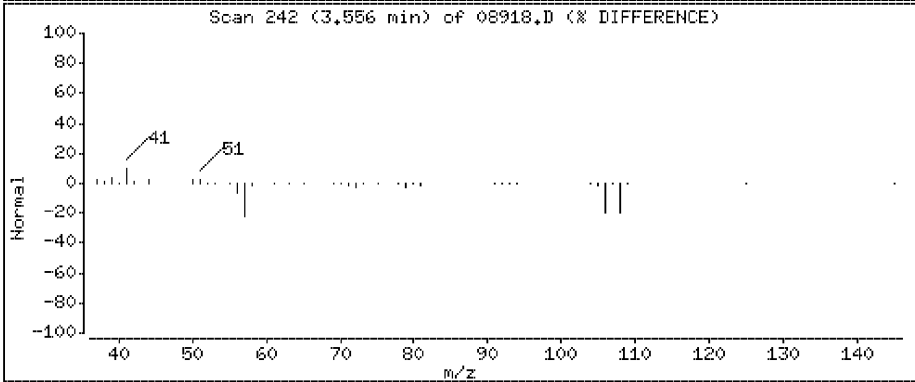
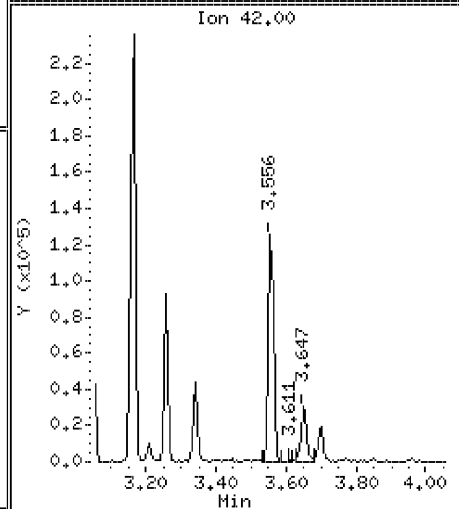
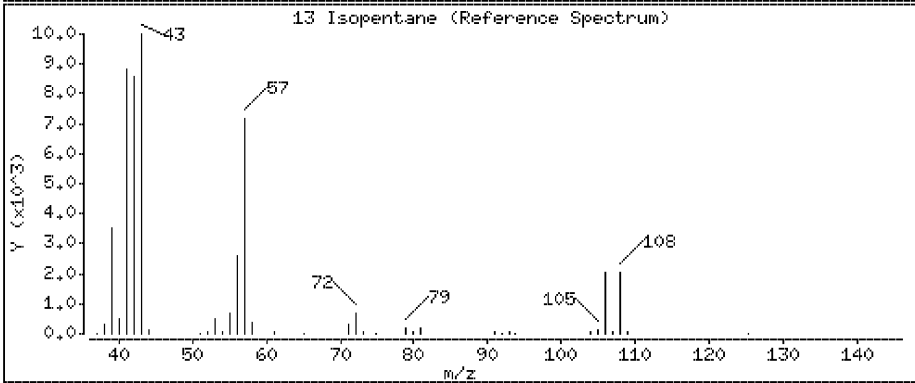
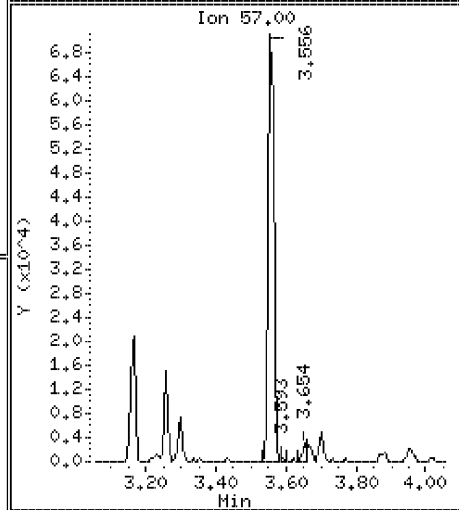
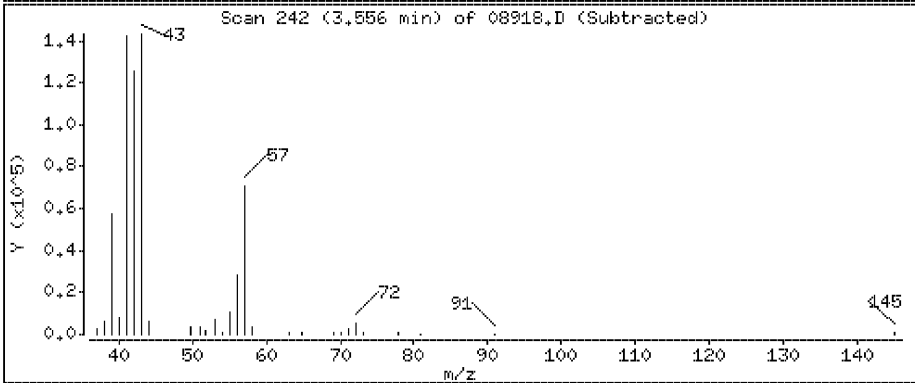
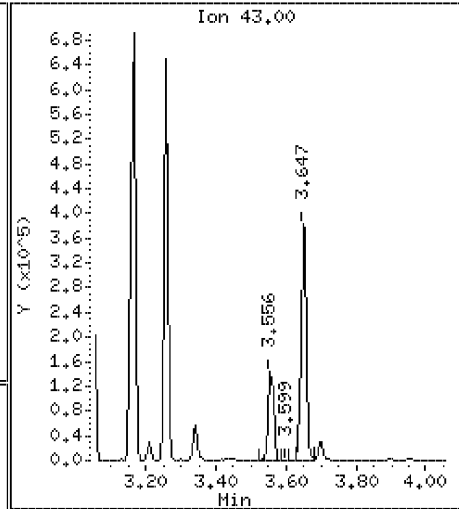
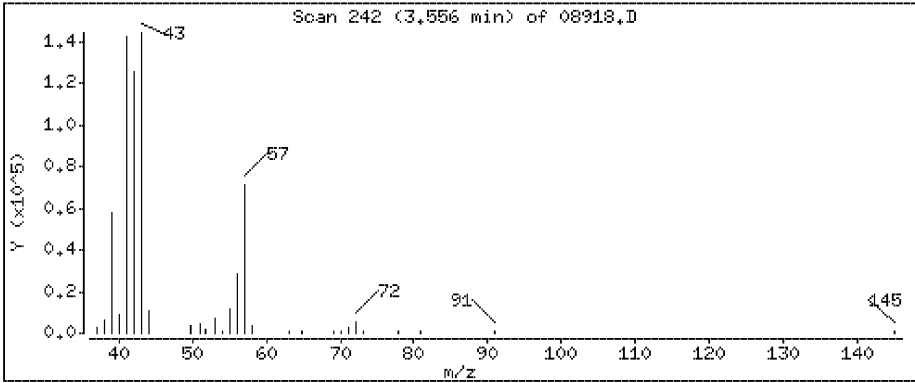
11 Ethanol

Concentration: 0.947 ppbv



13 Isopentane

Concentration: 4.68 ppbv



Data File: \\192.168.10.12\chem\10airI.i\033019,b\08918.D

Date : 30-MAR-2019 14:51

Client ID:

Instrument: 10airI.i

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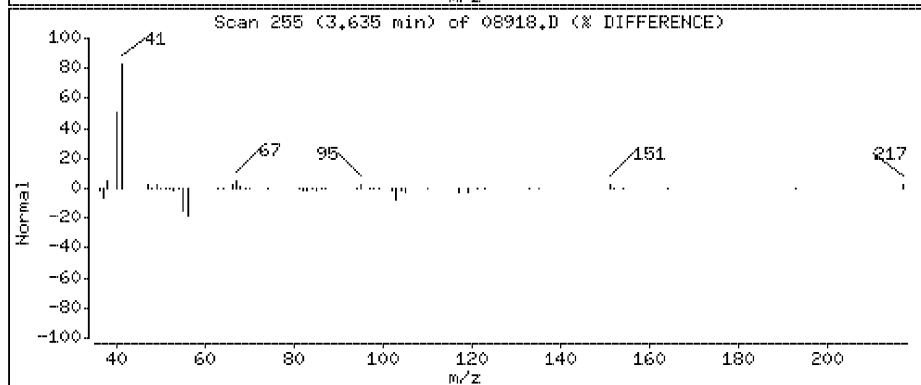
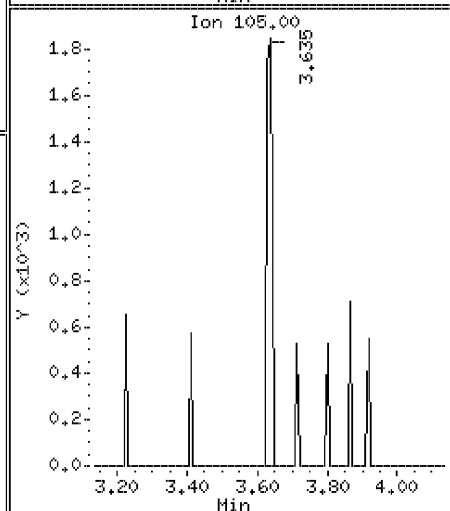
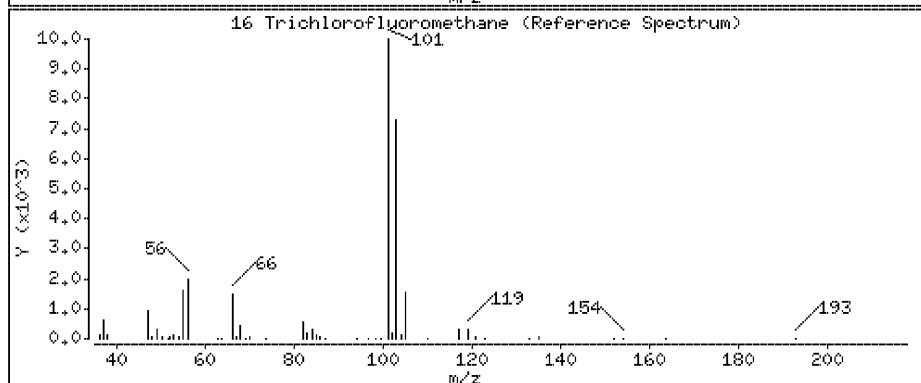
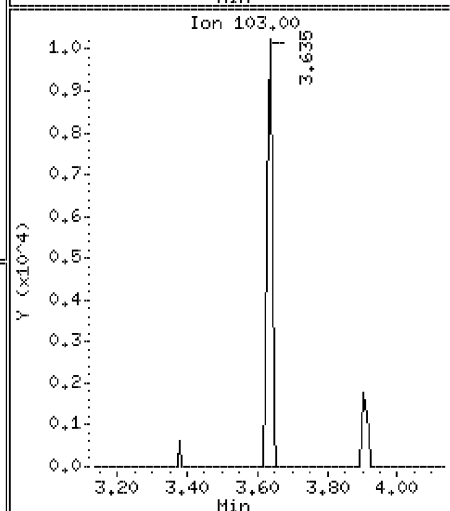
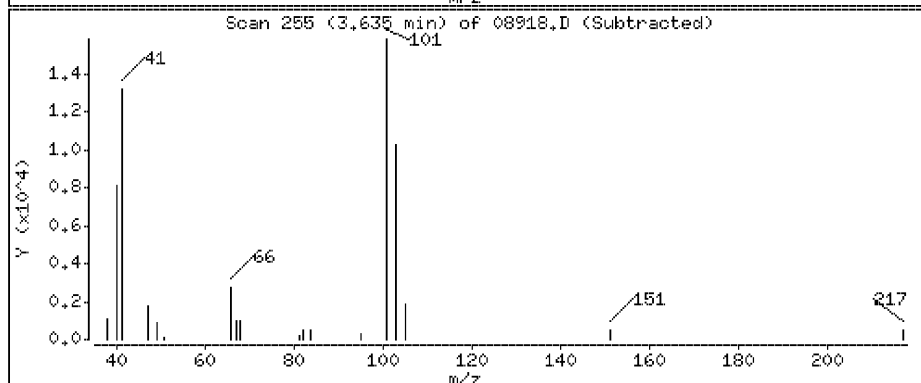
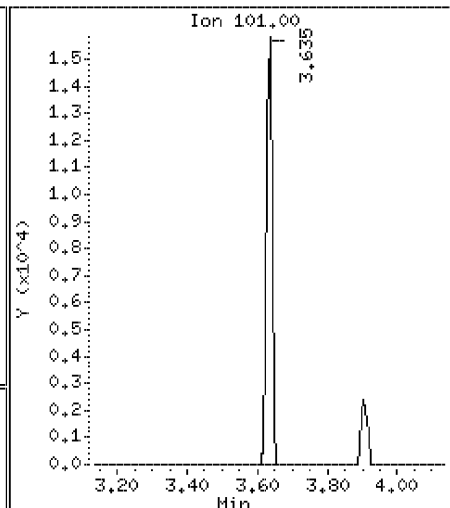
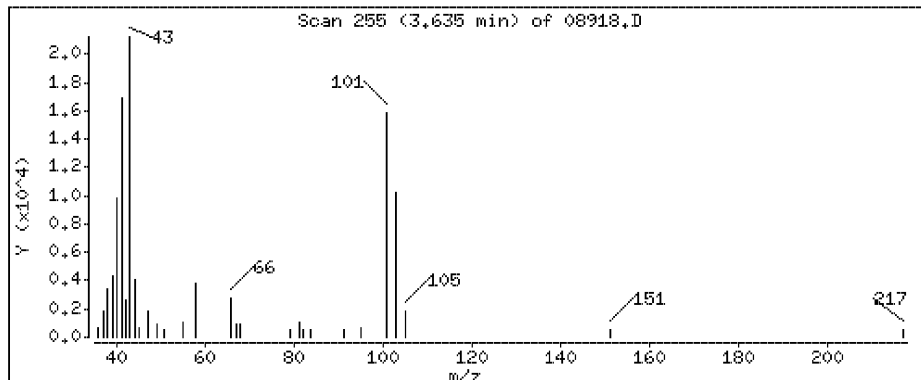
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

16 Trichlorofluoromethane

Concentration: 0.241 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08918.D

Date : 30-MAR-2019 14:51

Client ID:

Instrument: 10airI.i

Sample Info:

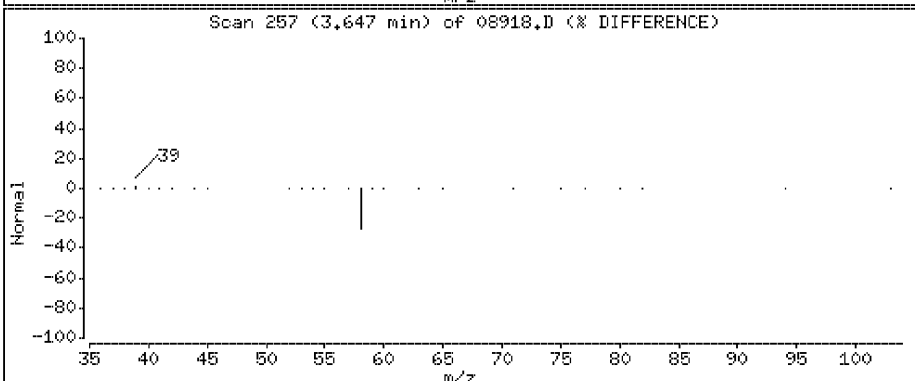
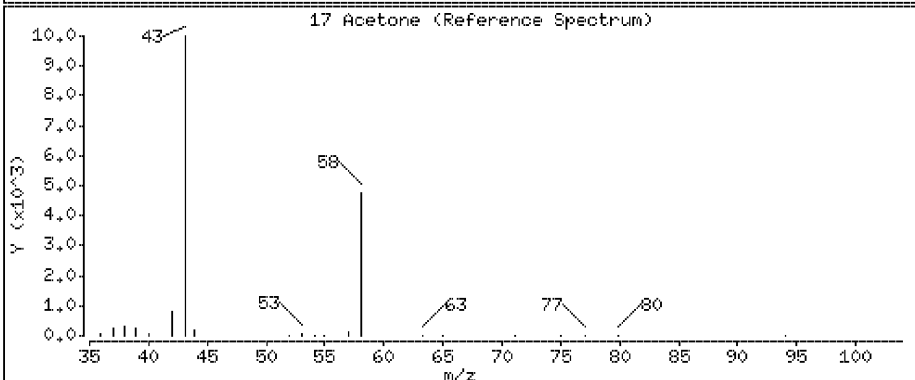
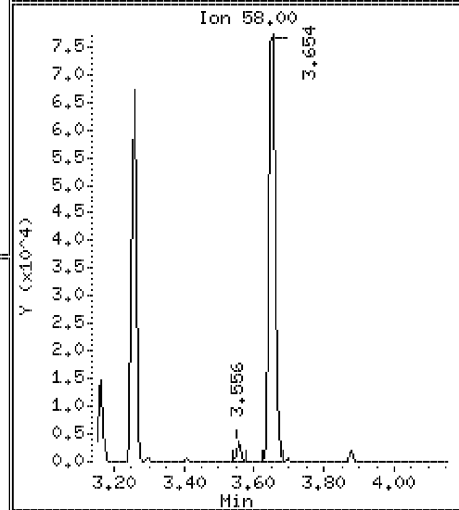
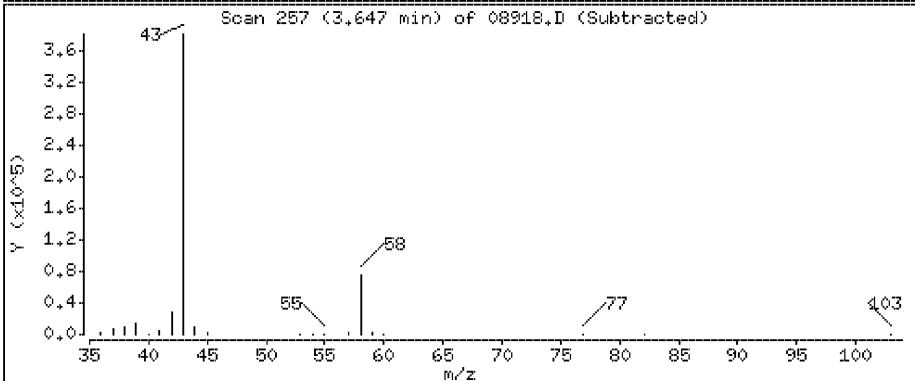
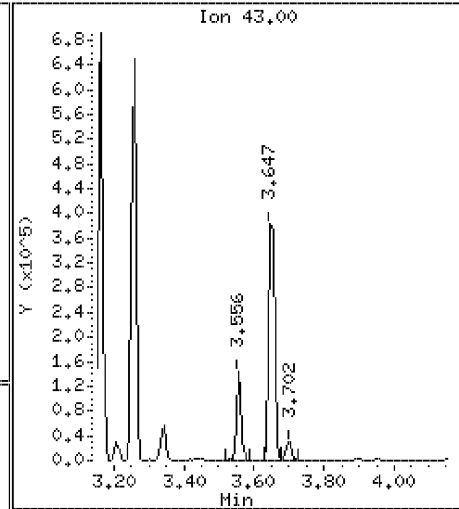
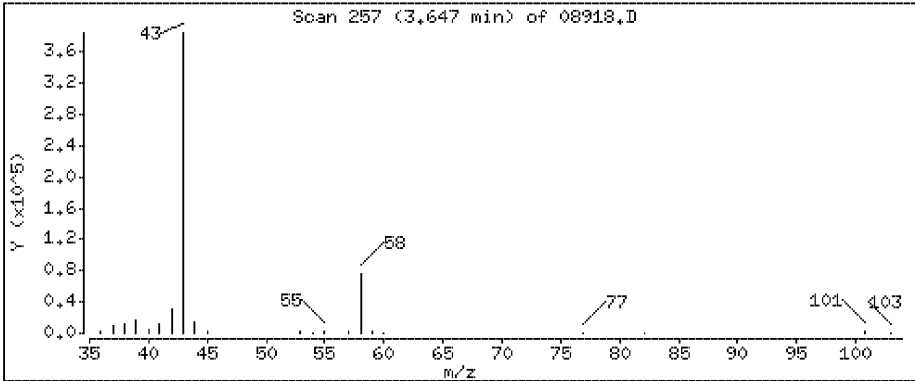
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

17 Acetone

Concentration: 5.97 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08918.D

Date : 30-MAR-2019 14:51

Client ID:

Instrument: 10airI.i

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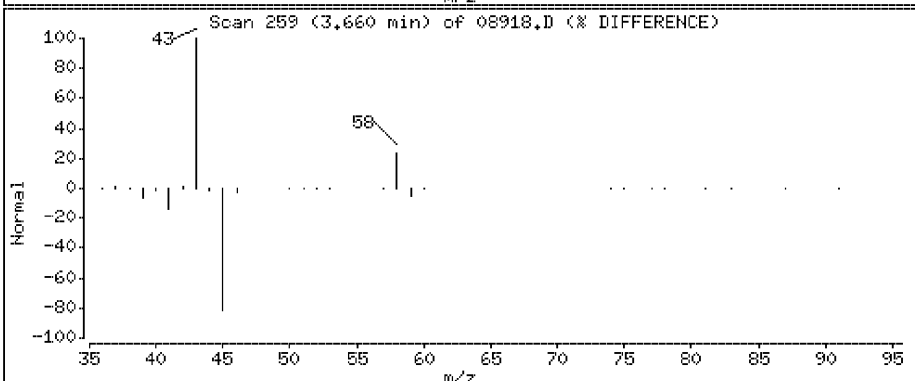
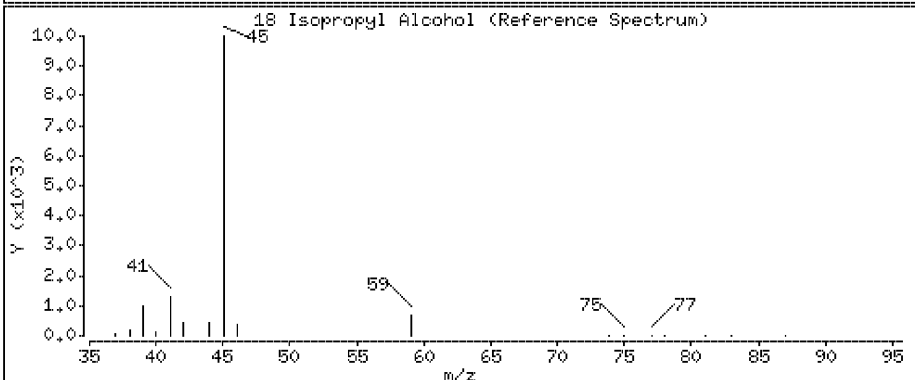
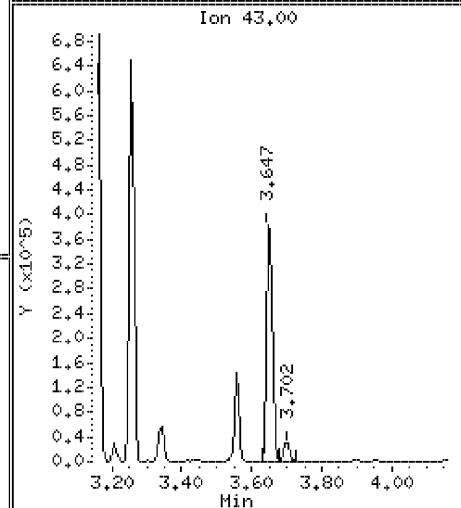
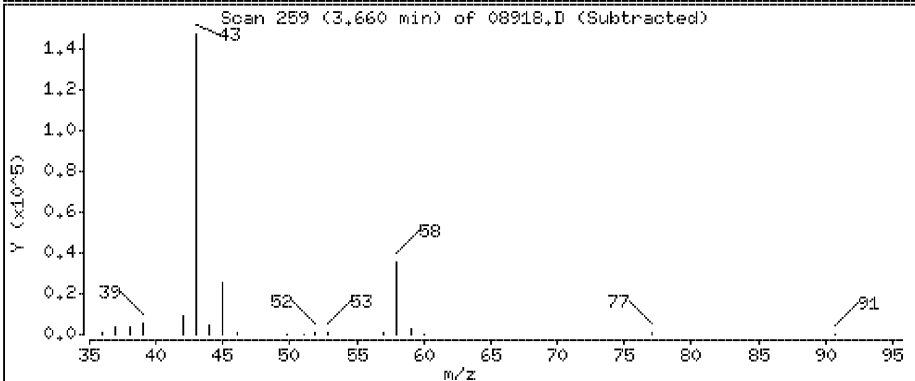
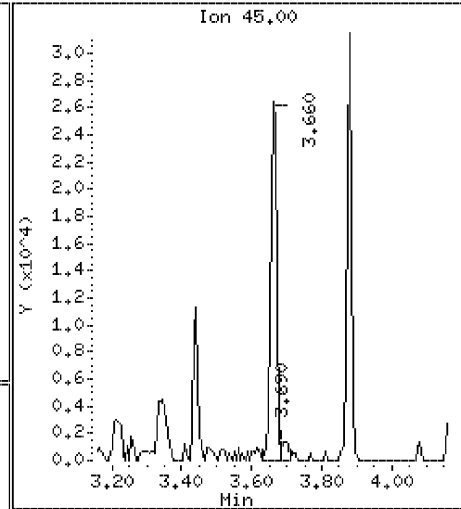
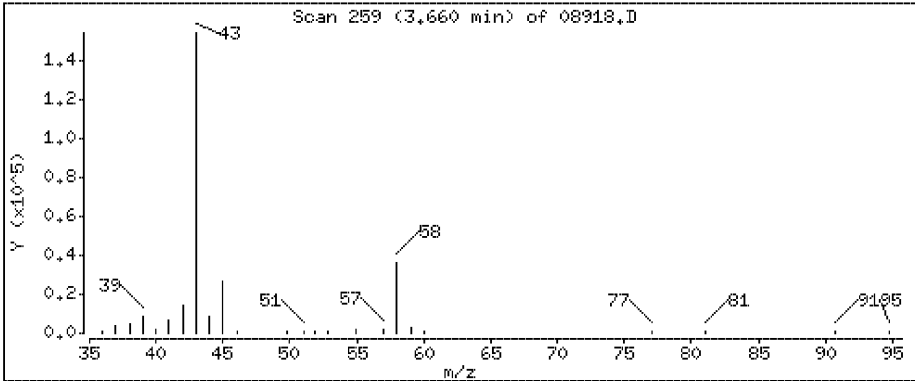
Operator: MJL

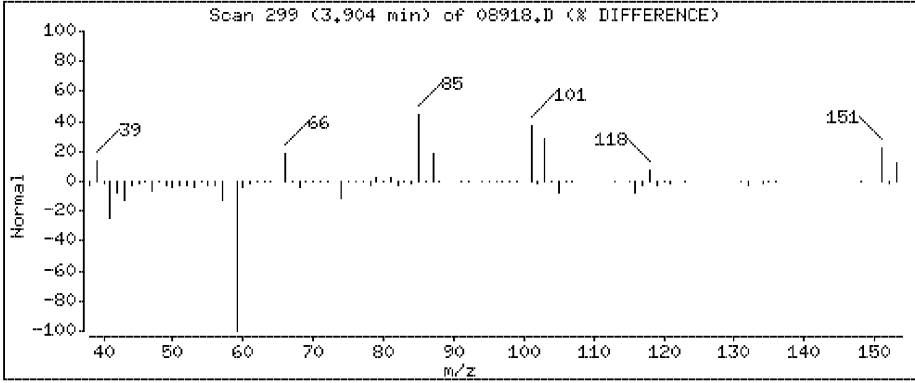
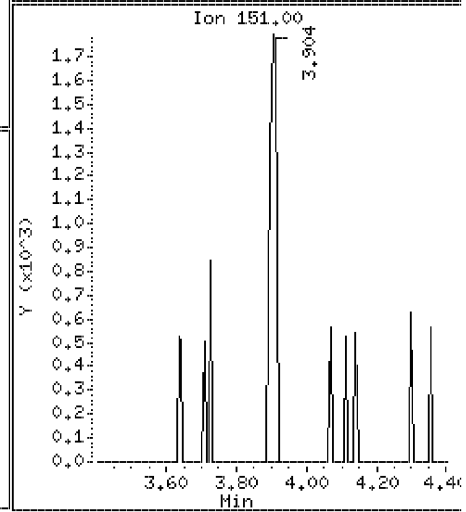
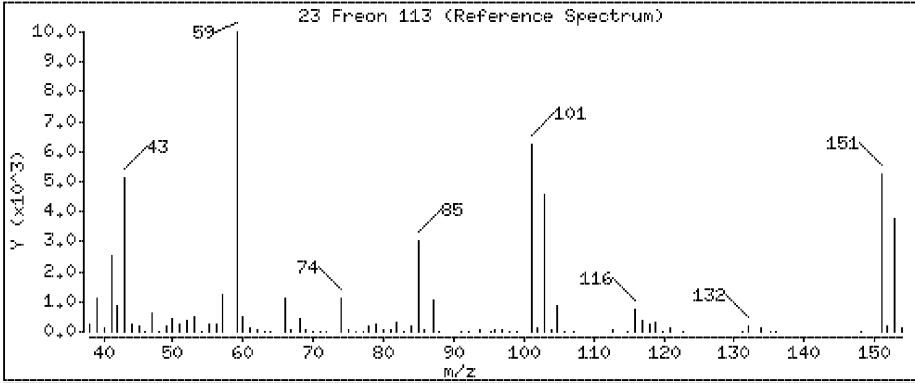
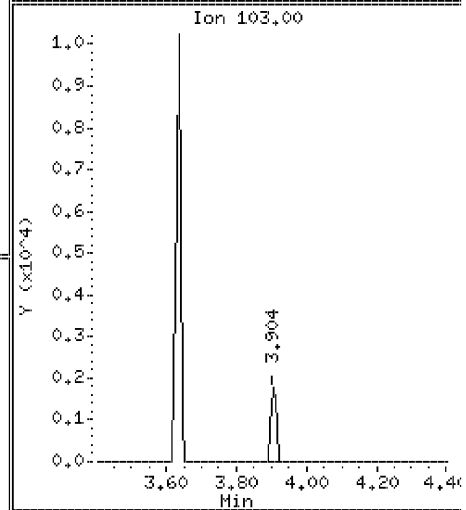
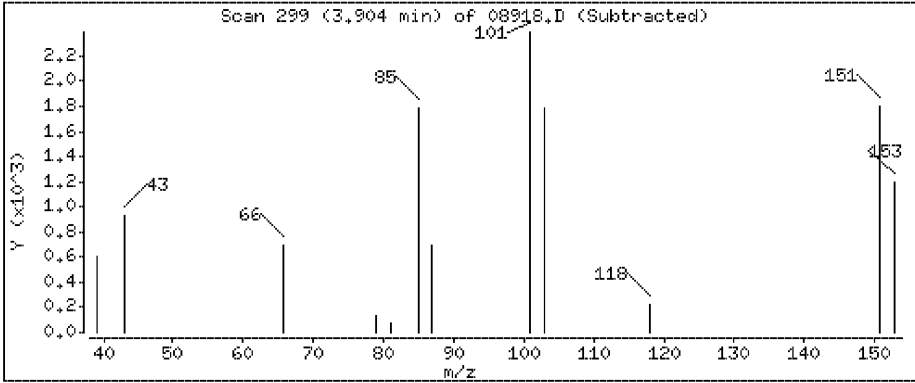
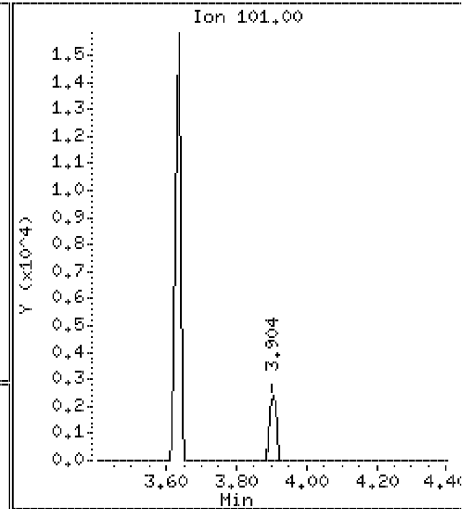
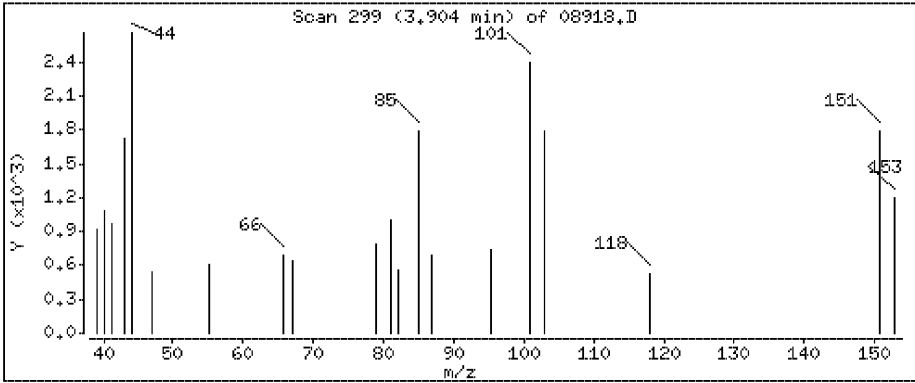
Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

18 Isopropyl Alcohol

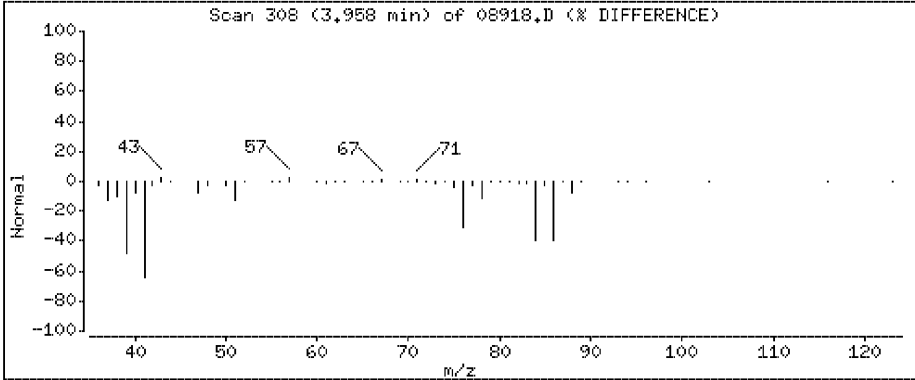
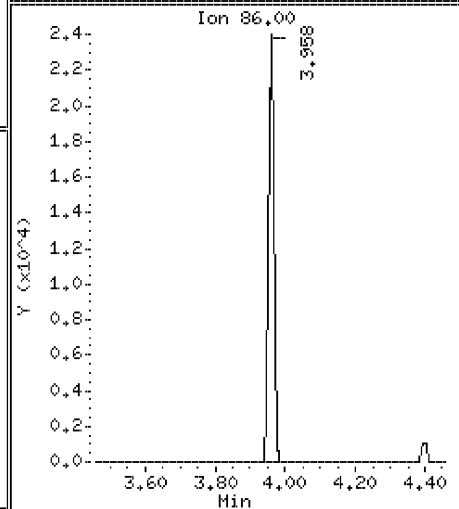
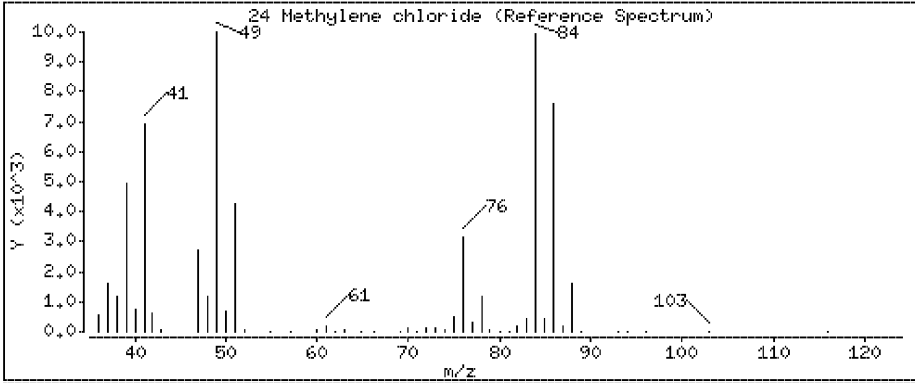
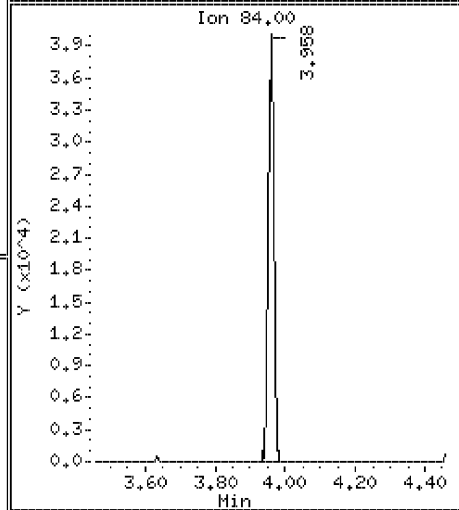
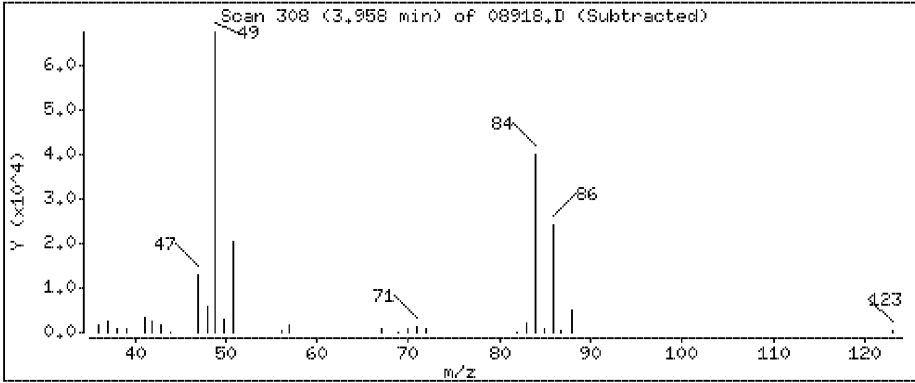
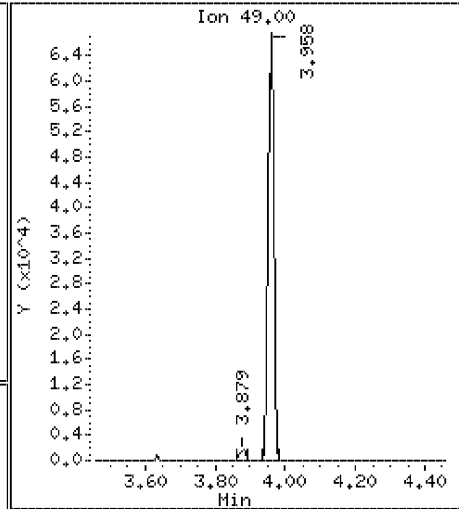
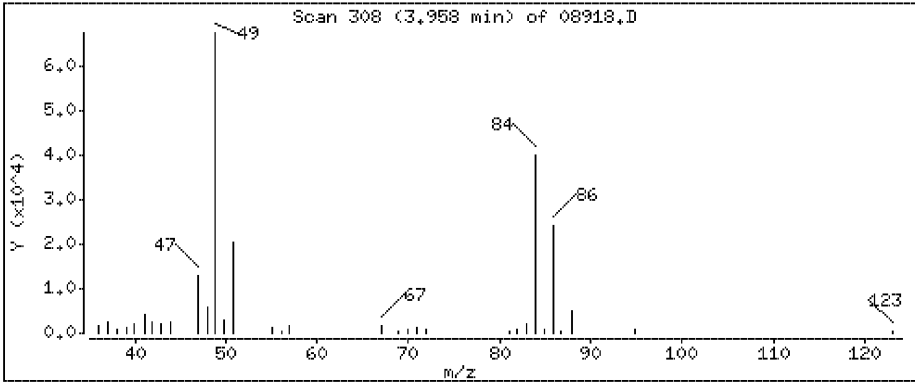
Concentration: 0.586 ppbv





24 Methylene chloride

Concentration: 1.03 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08918.D

Date : 30-MAR-2019 14:51

Client ID:

Instrument: 10airI.i

Sample Info:

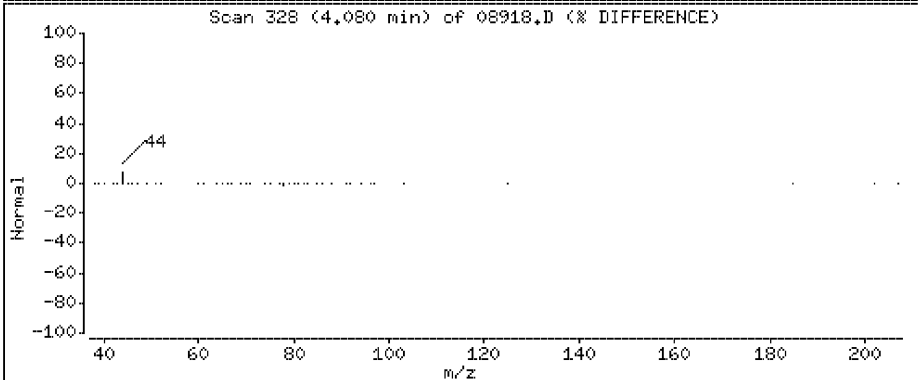
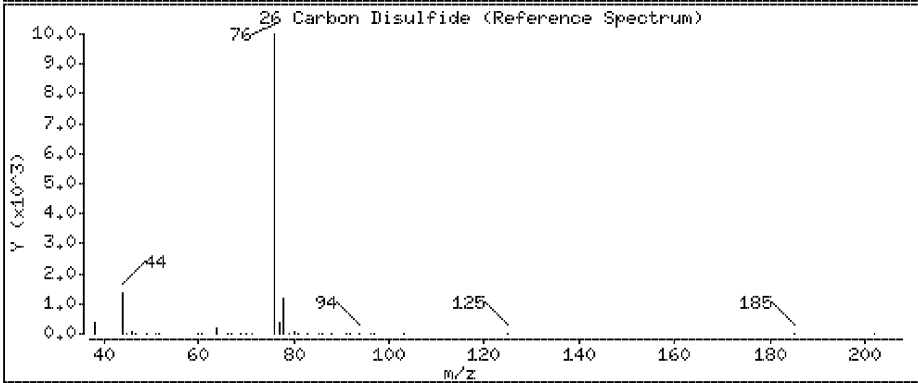
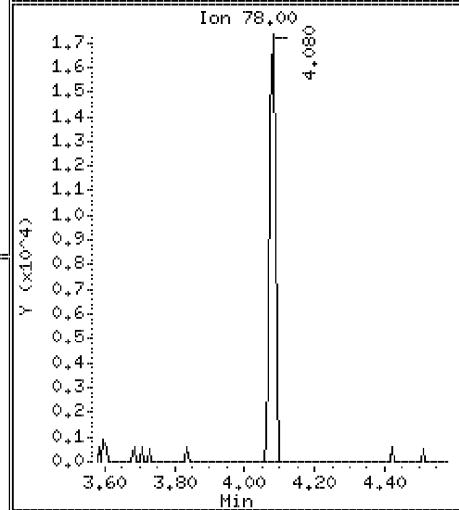
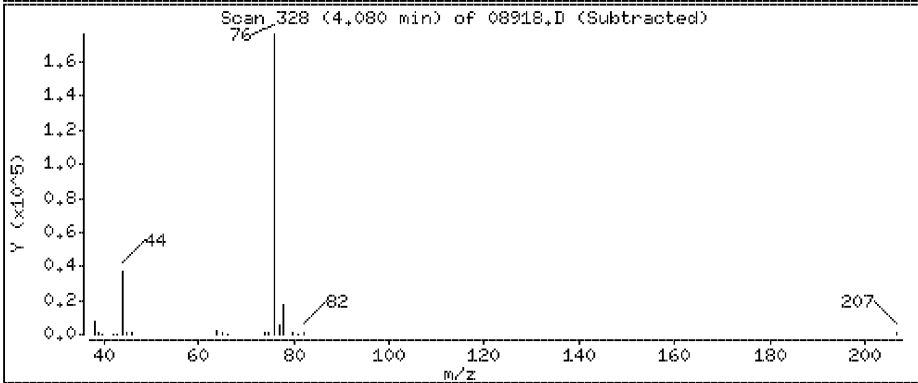
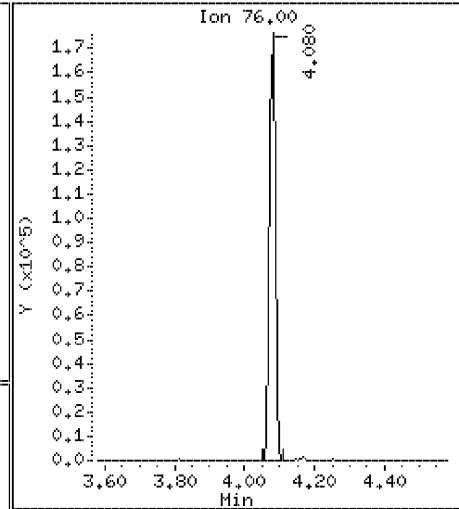
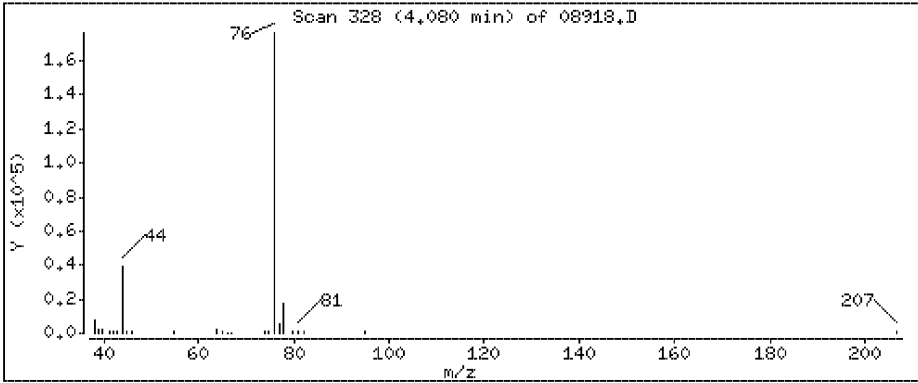
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

26 Carbon Disulfide

Concentration: 2.58 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08918.D

Date : 30-MAR-2019 14:51

Client ID:

Instrument: 10airI.i

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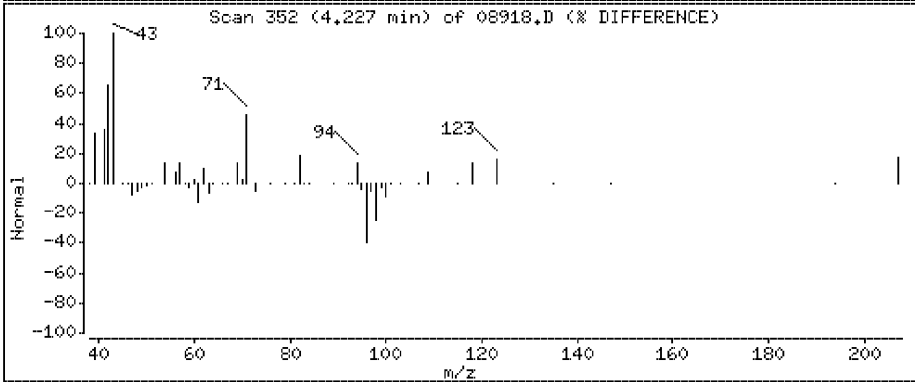
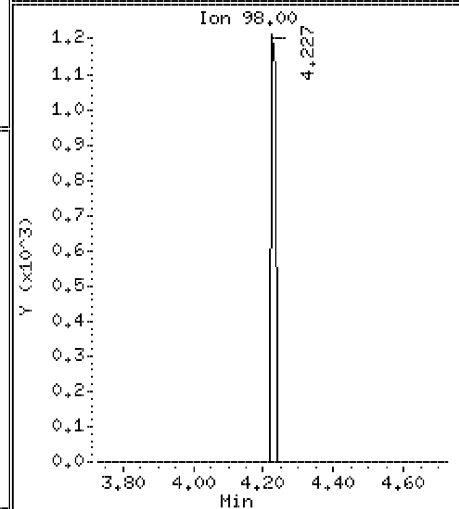
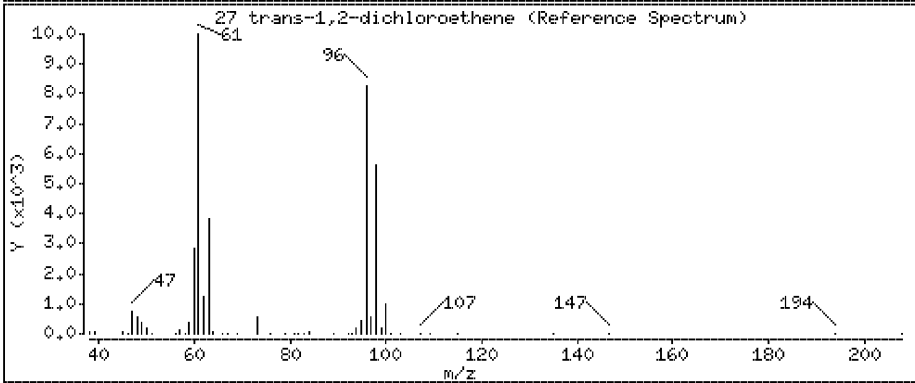
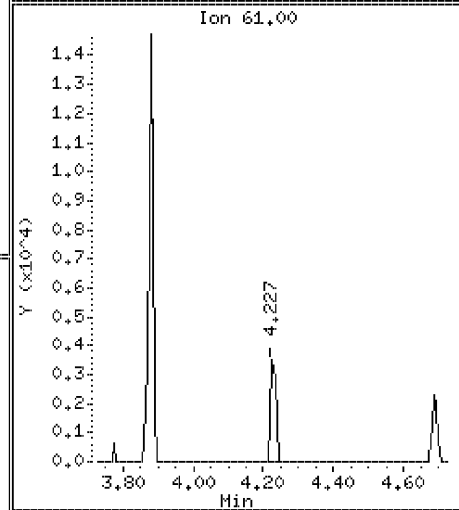
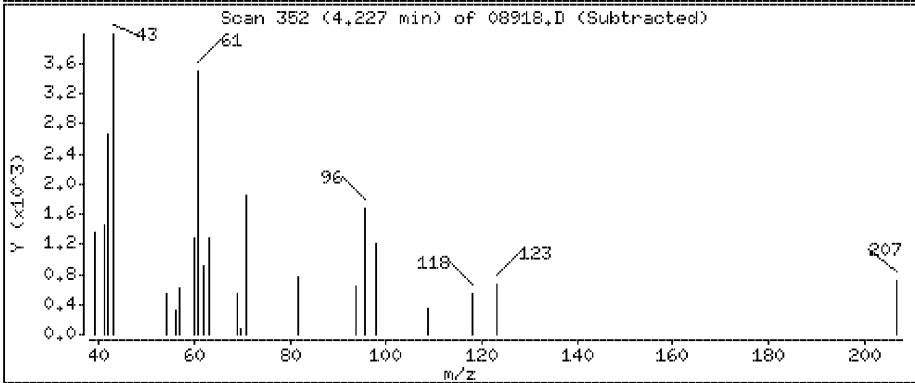
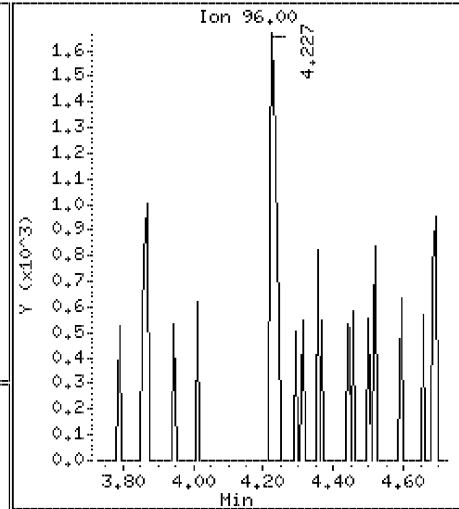
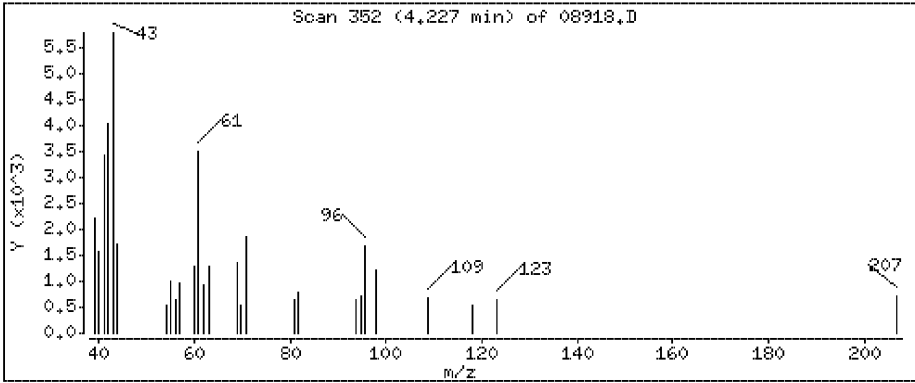
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

27 trans-1,2-dichloroethene

Concentration: 0,0734 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08918.D

Date : 30-MAR-2019 14:51

Client ID:

Instrument: 10airI.i

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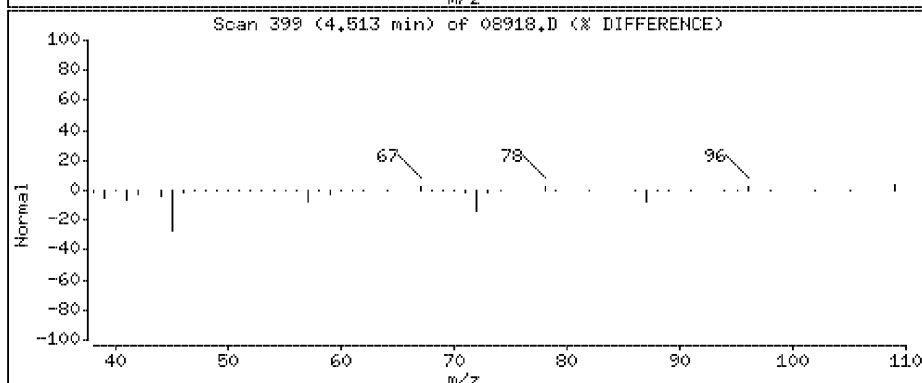
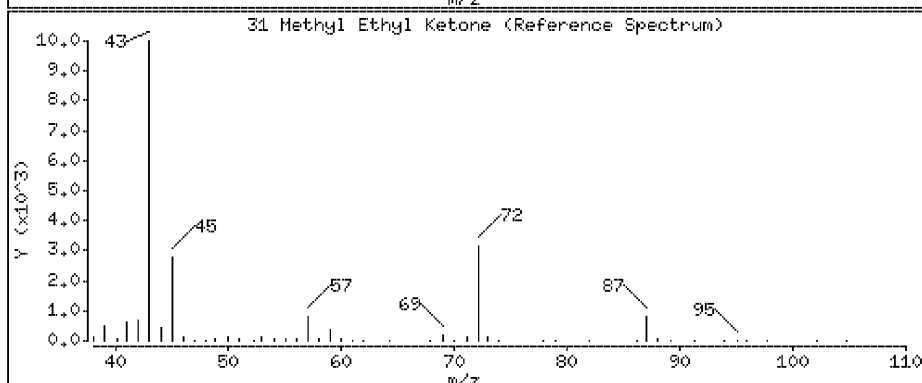
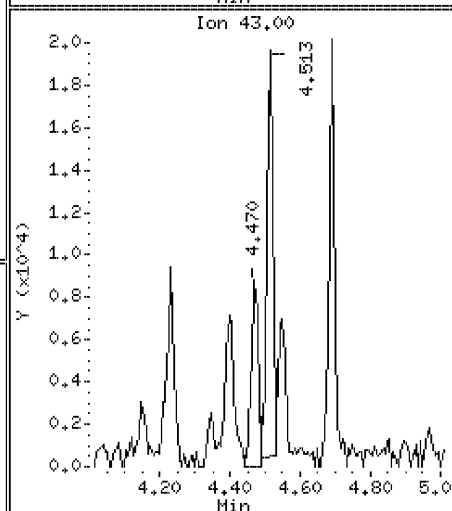
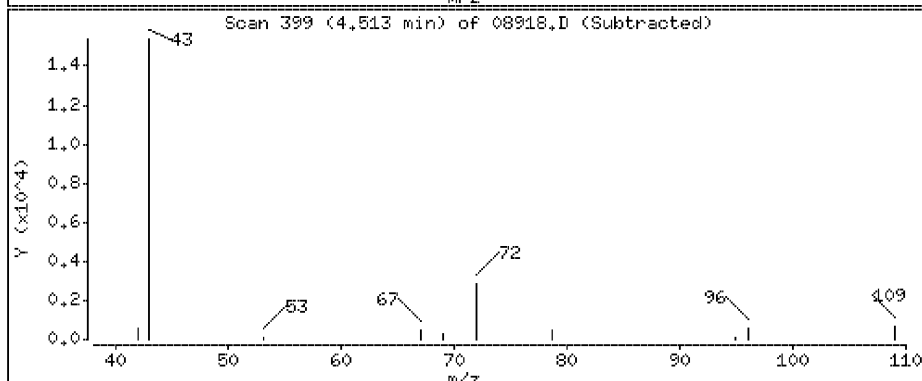
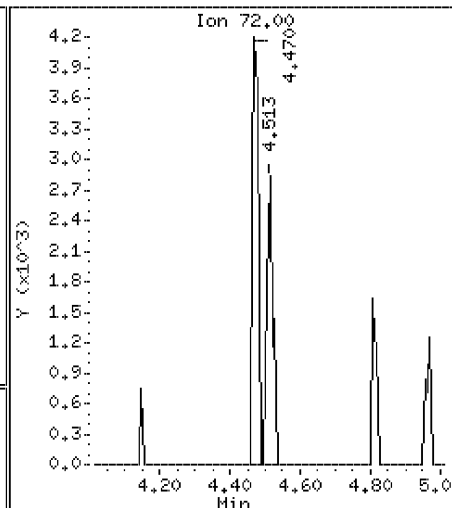
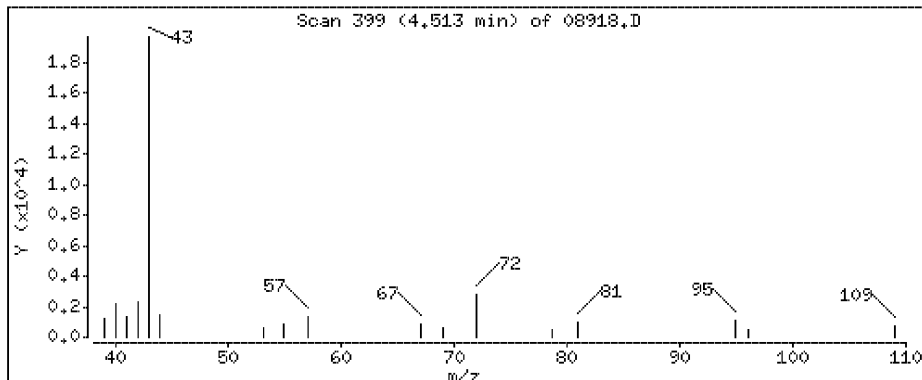
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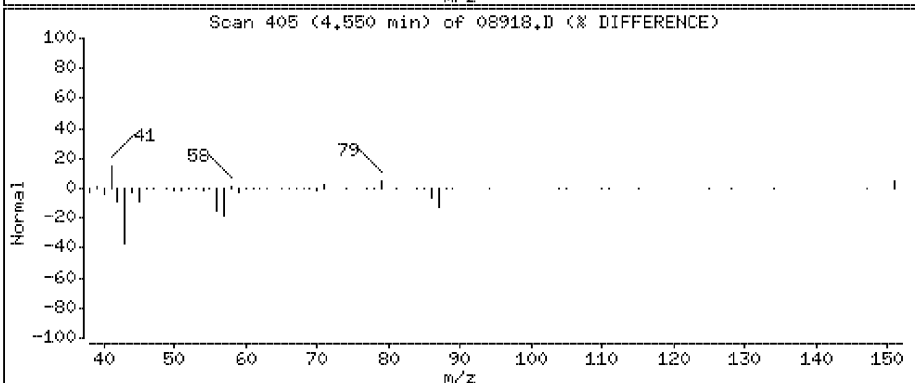
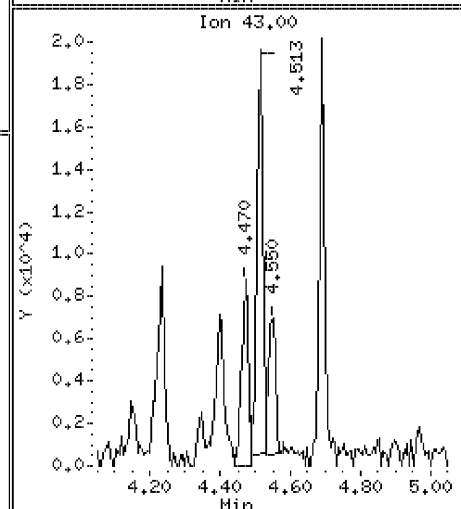
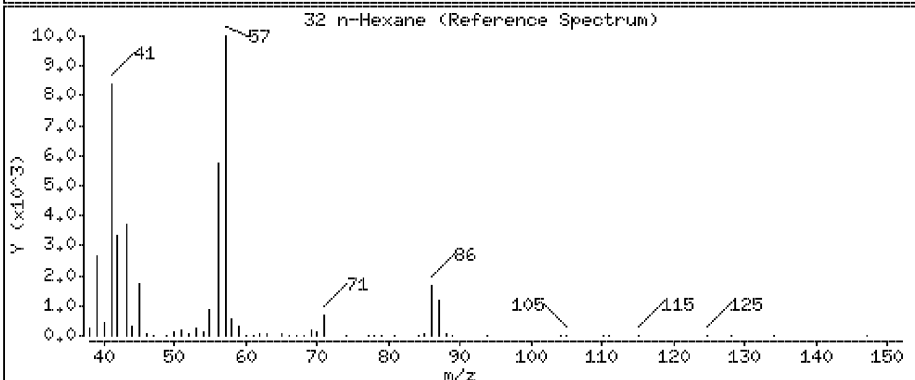
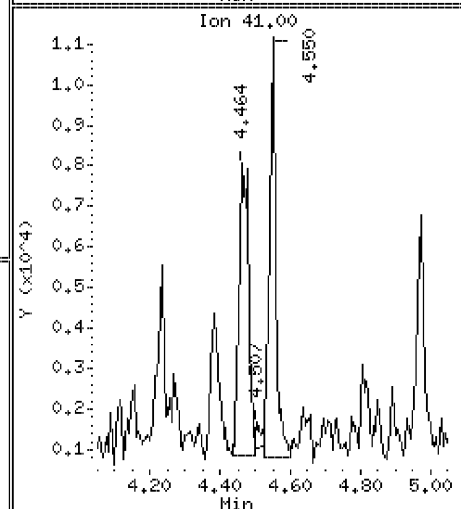
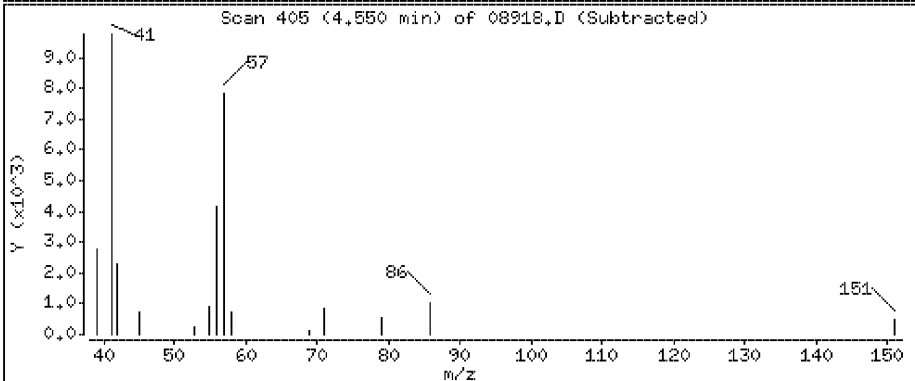
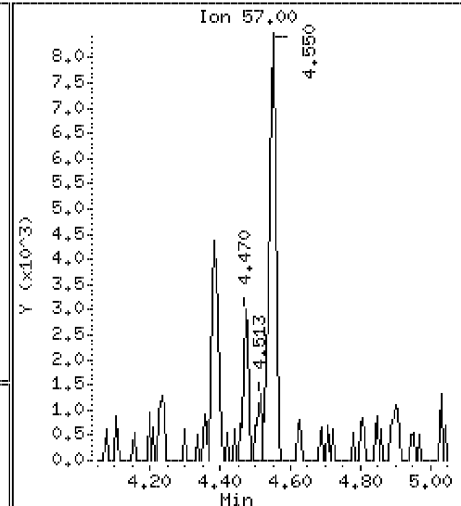
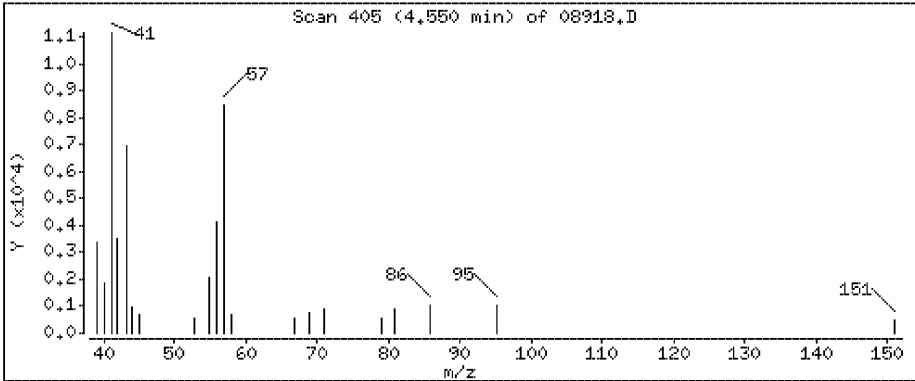
Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

31 Methyl Ethyl Ketone

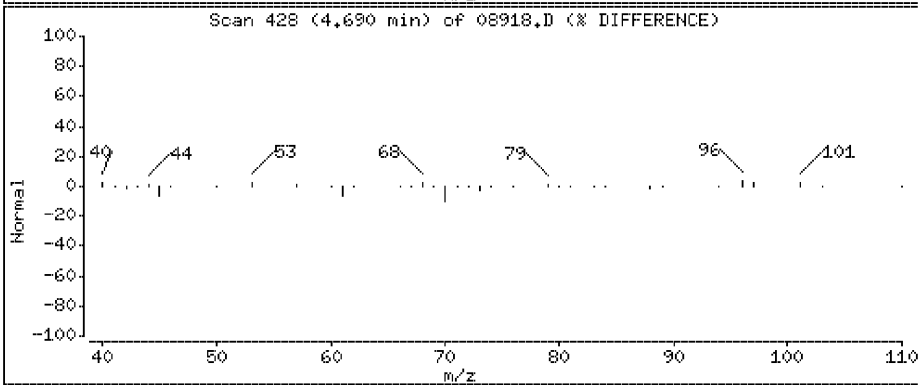
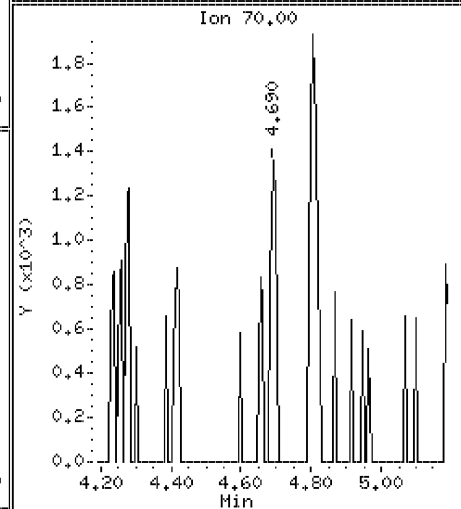
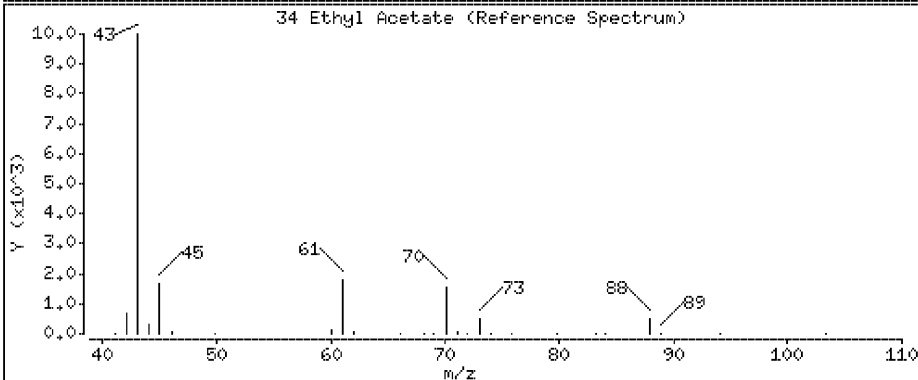
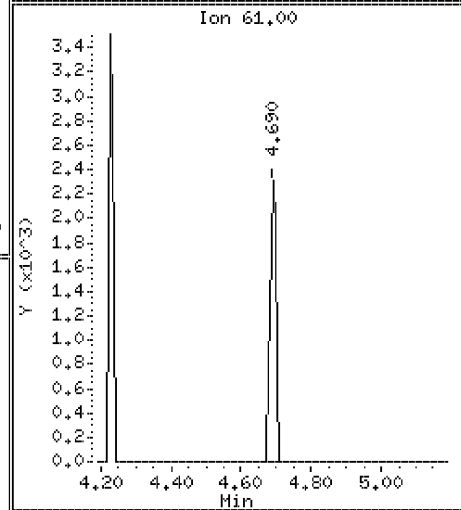
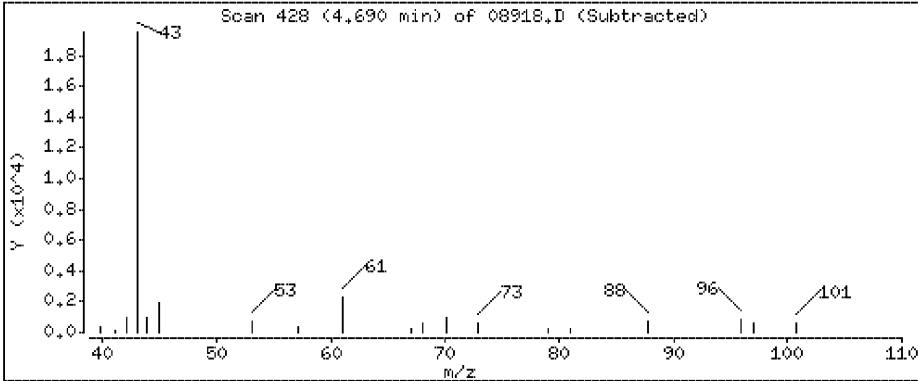
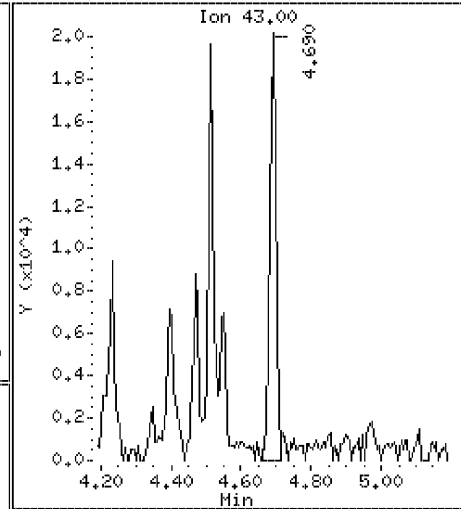
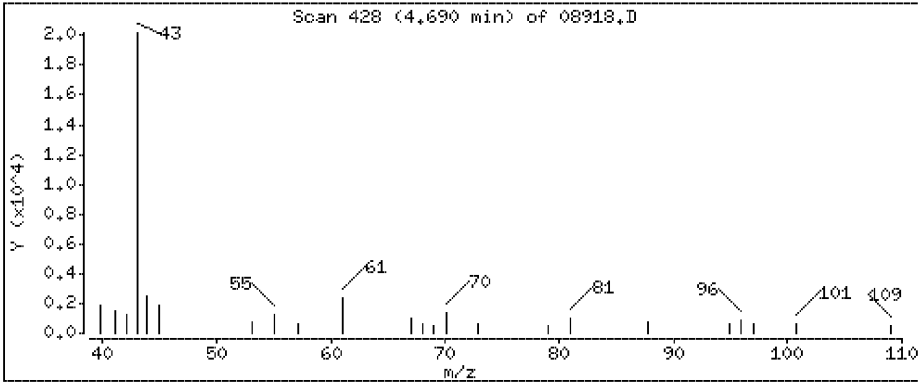
Concentration: 0.196 ppbv

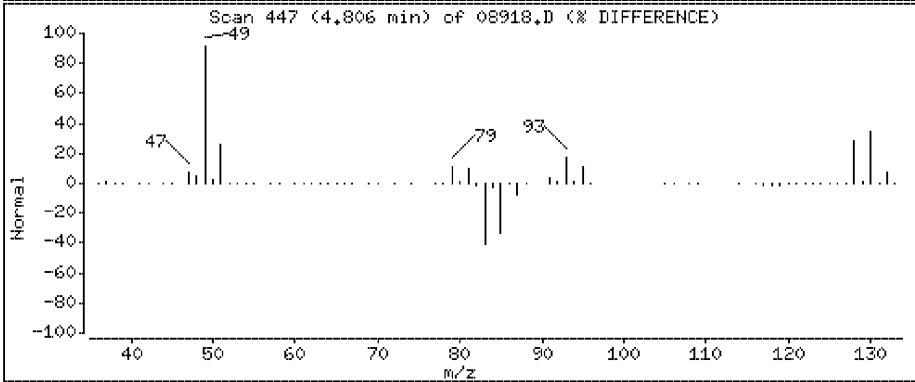
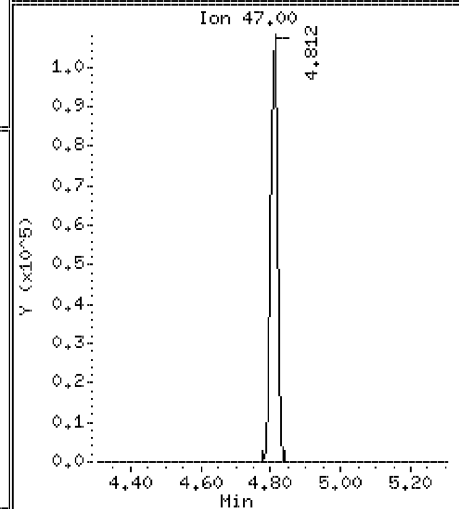
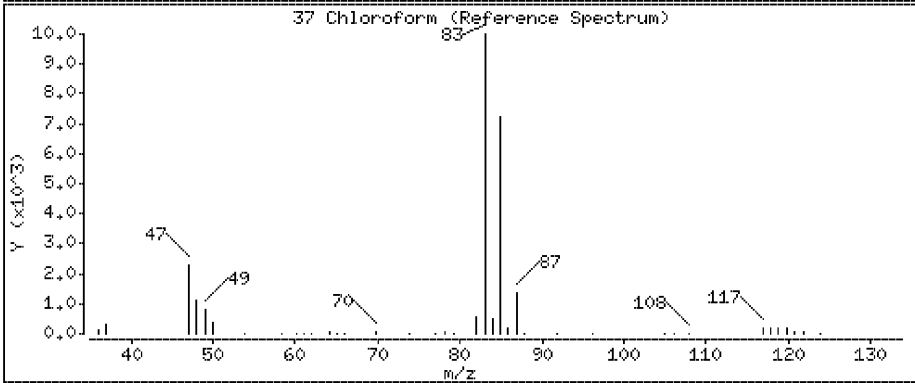
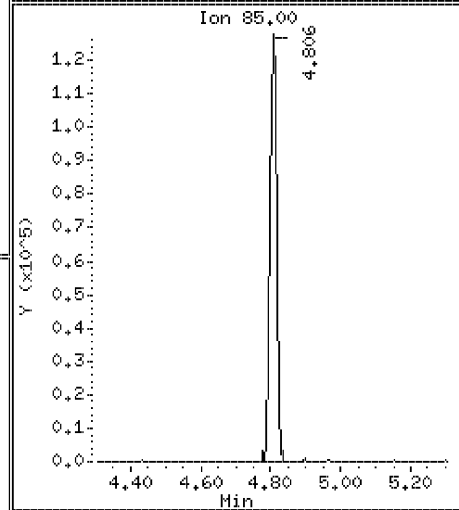
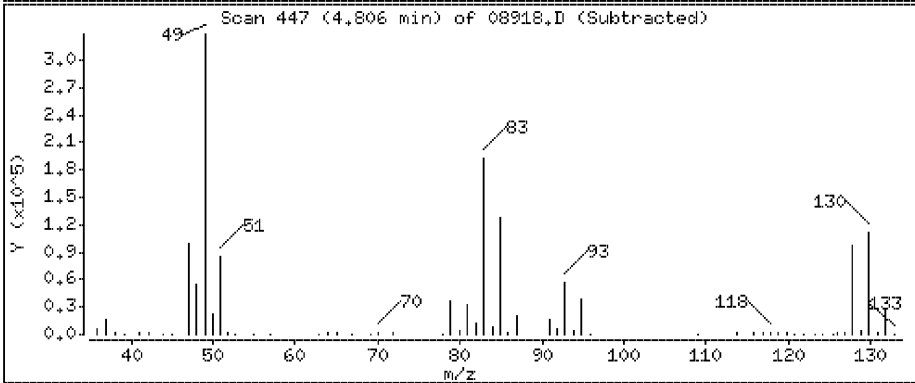
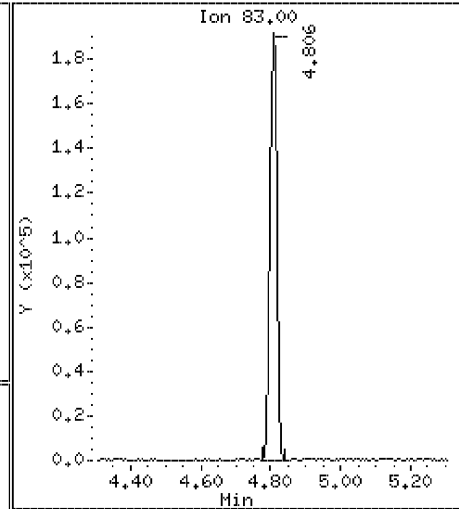
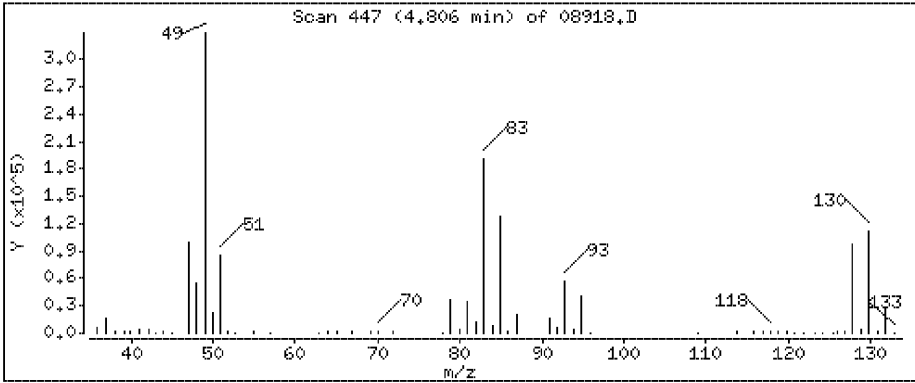




34 Ethyl Acetate

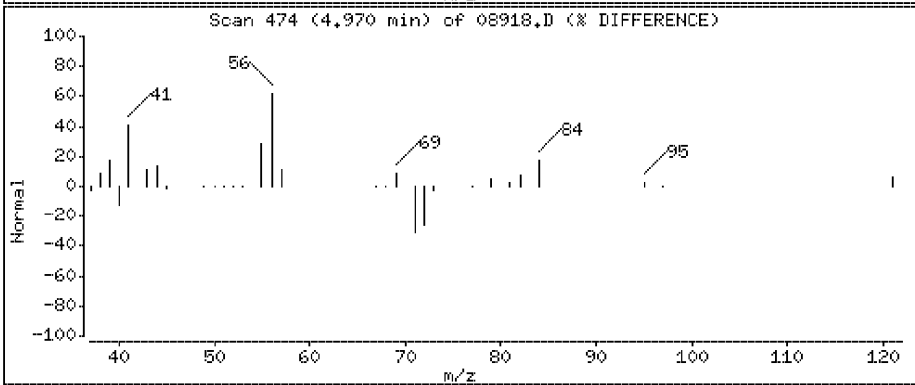
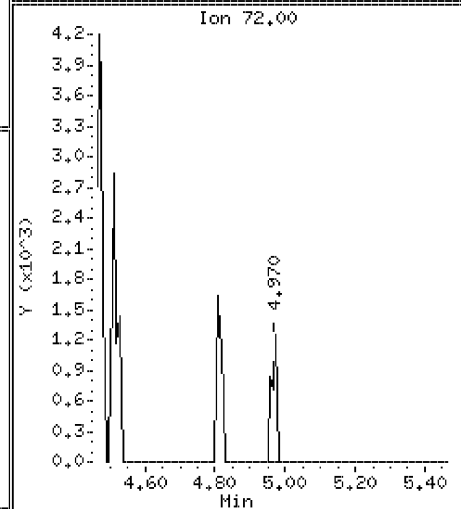
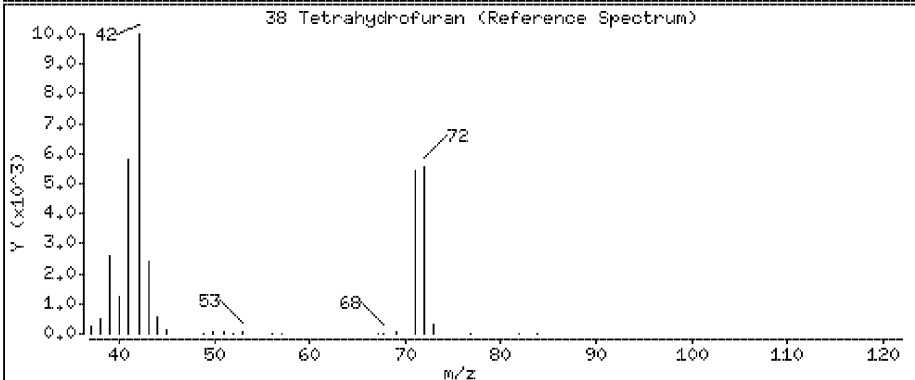
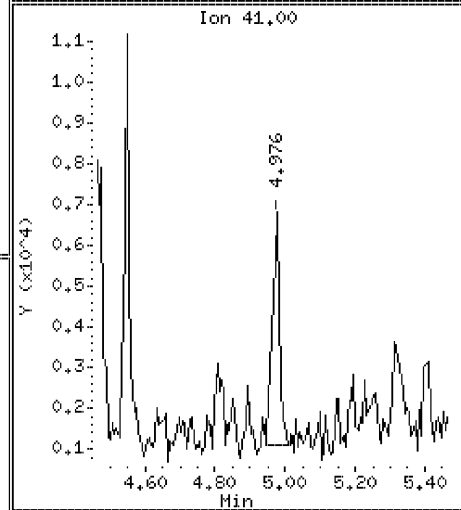
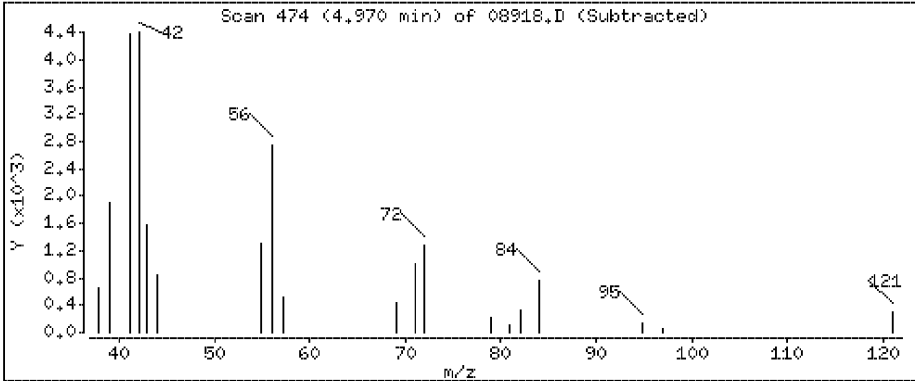
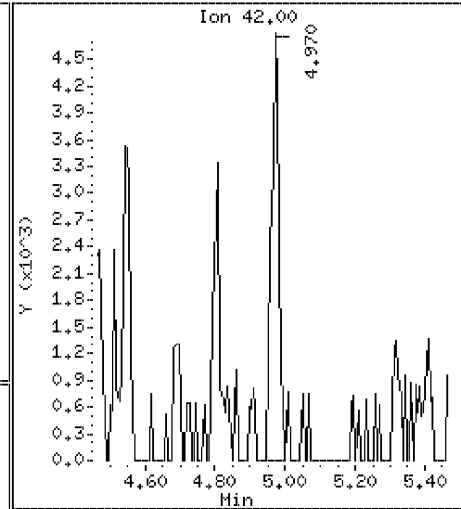
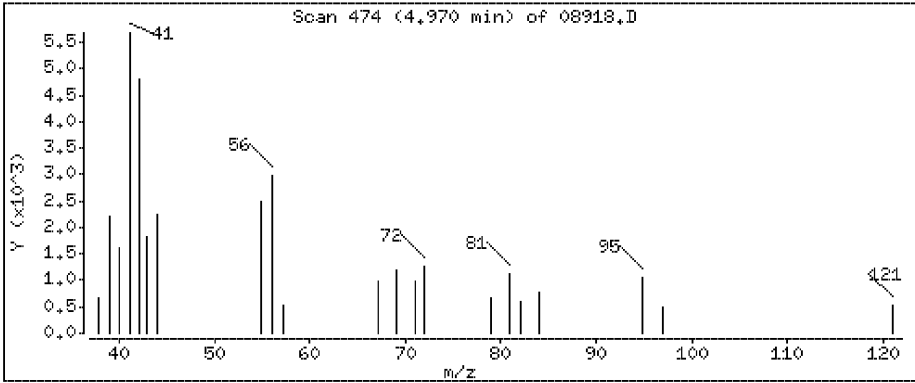
Concentration: 0.252 ppbv





38 Tetrahydrofuran

Concentration: 0.179 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08918.D

Date : 30-MAR-2019 14:51

Client ID:

Instrument: 10airI.i

Sample Info:

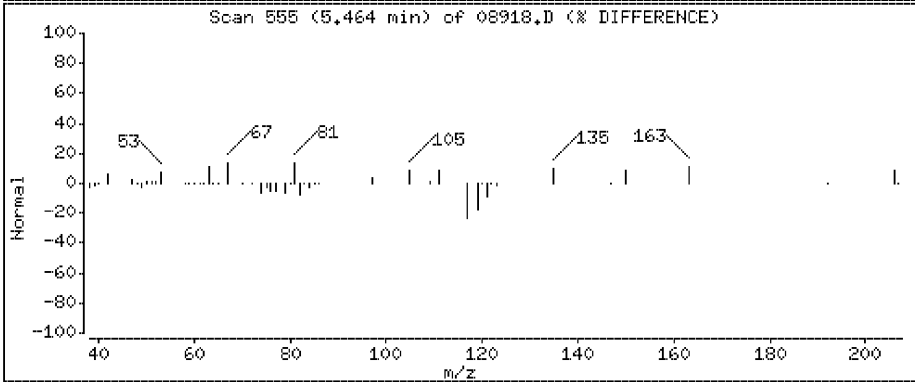
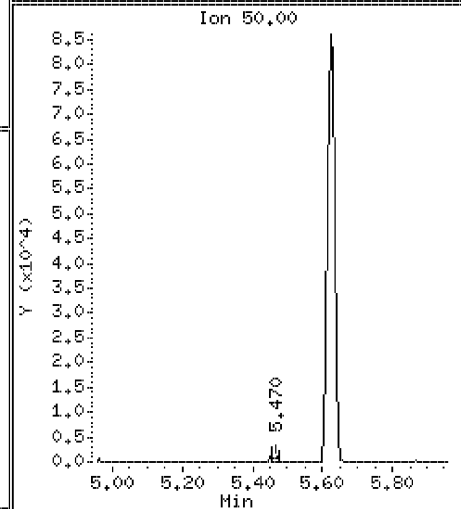
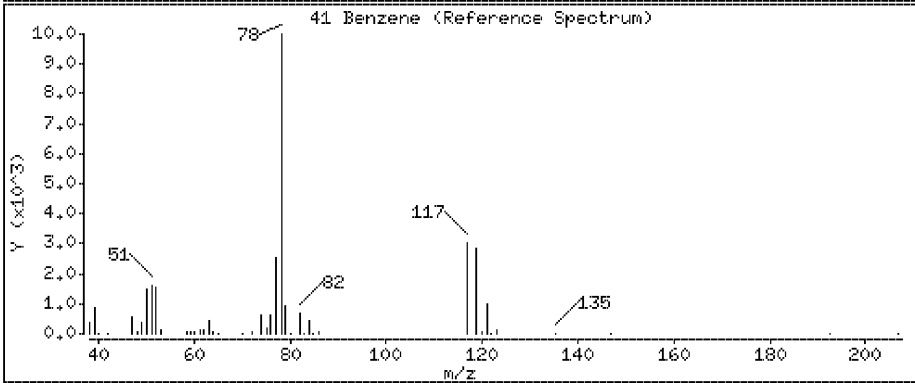
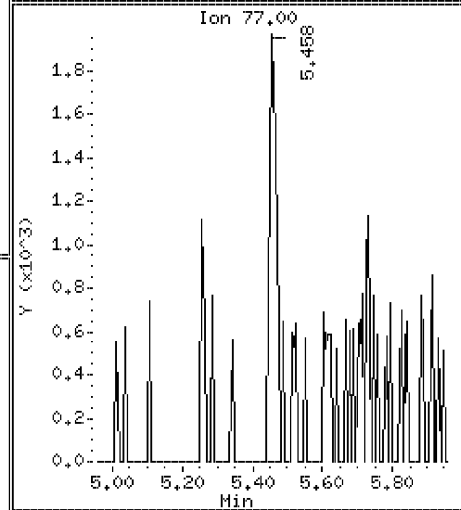
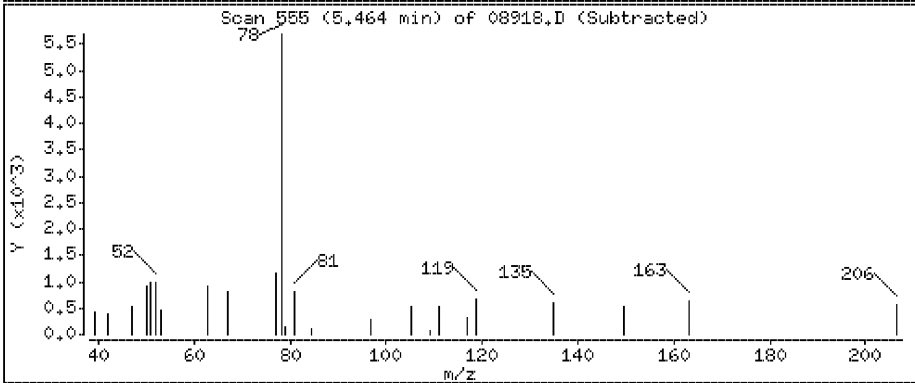
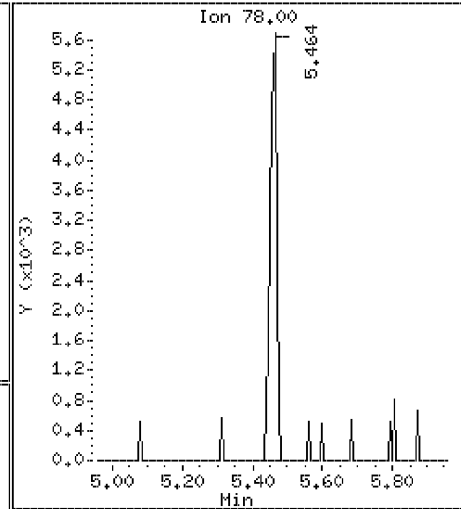
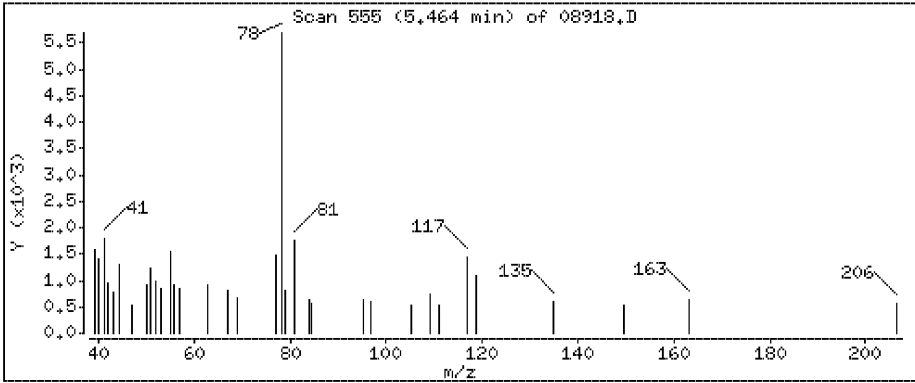
Operator: MJL

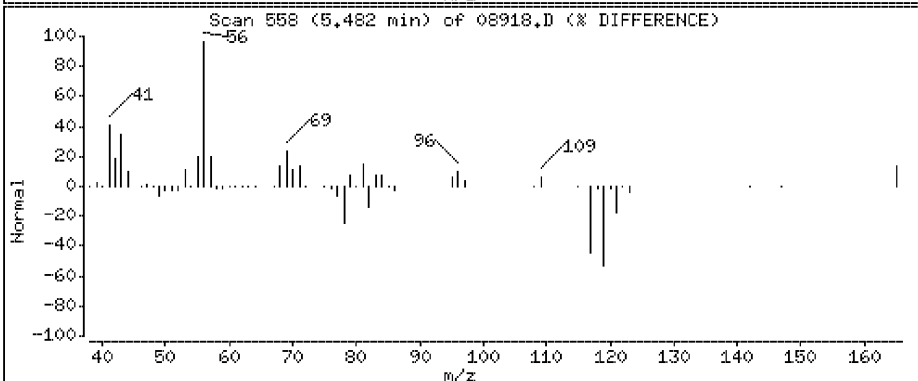
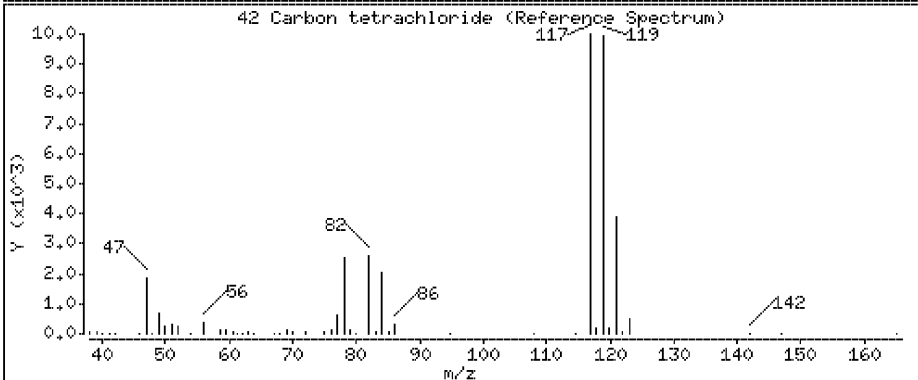
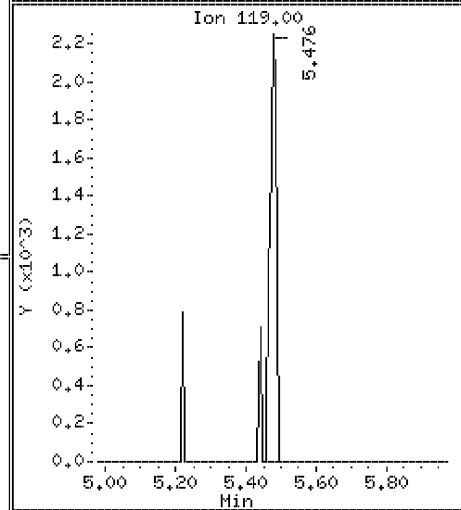
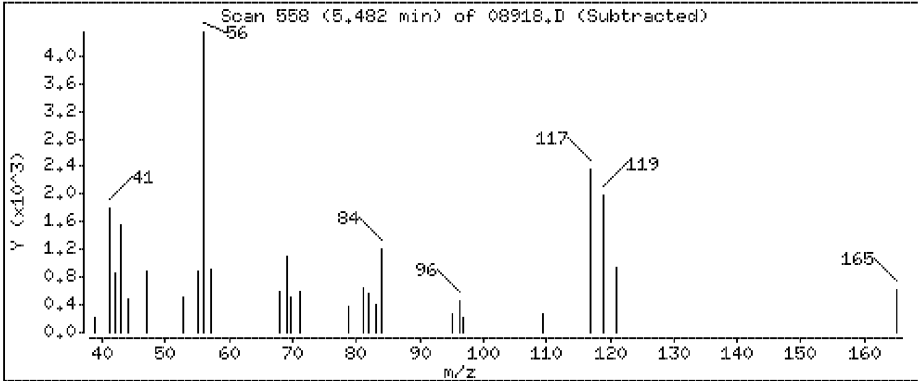
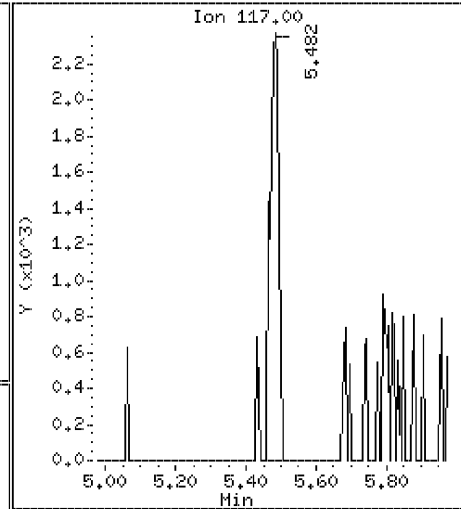
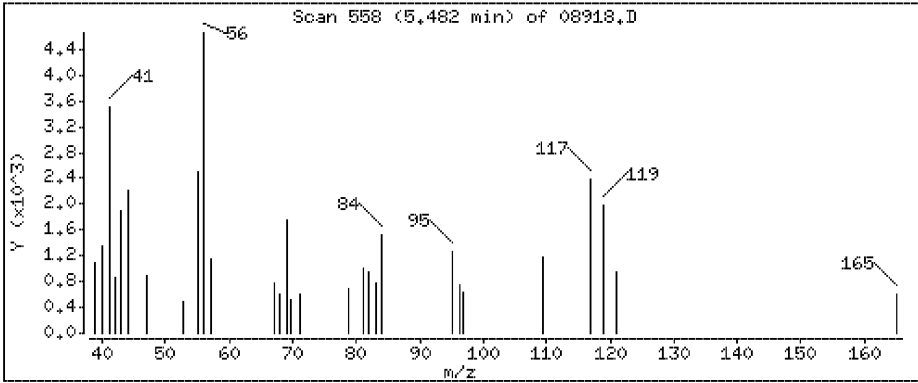
Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

41 Benzene

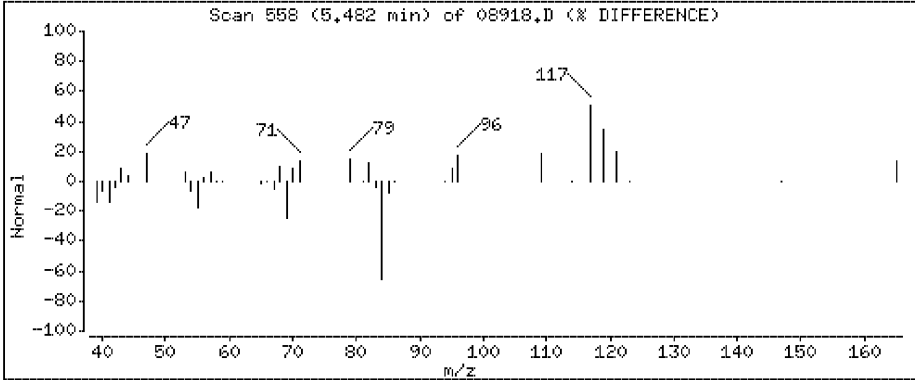
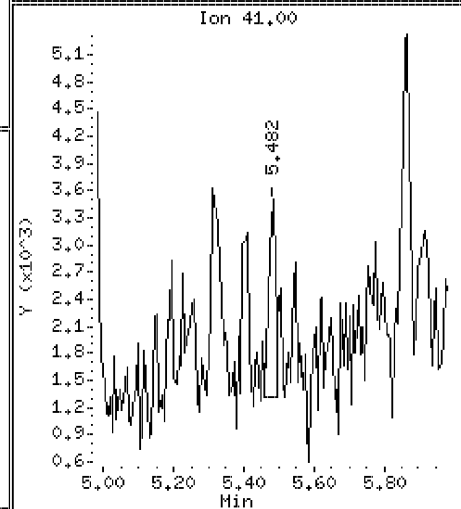
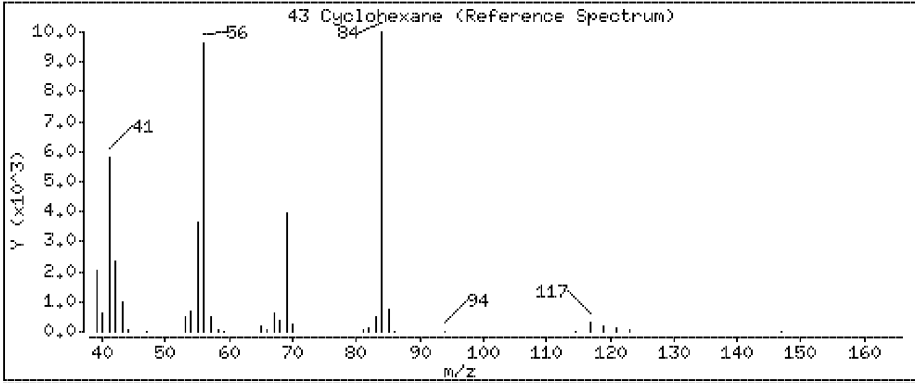
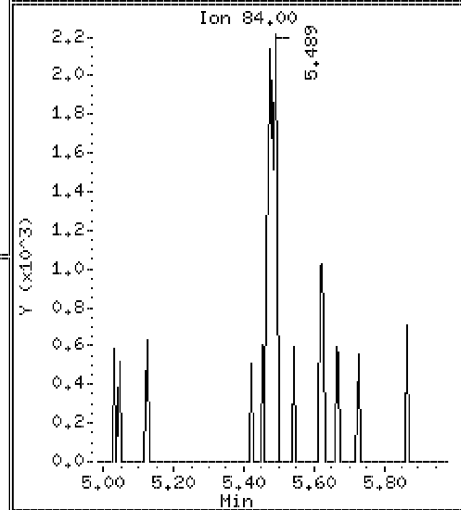
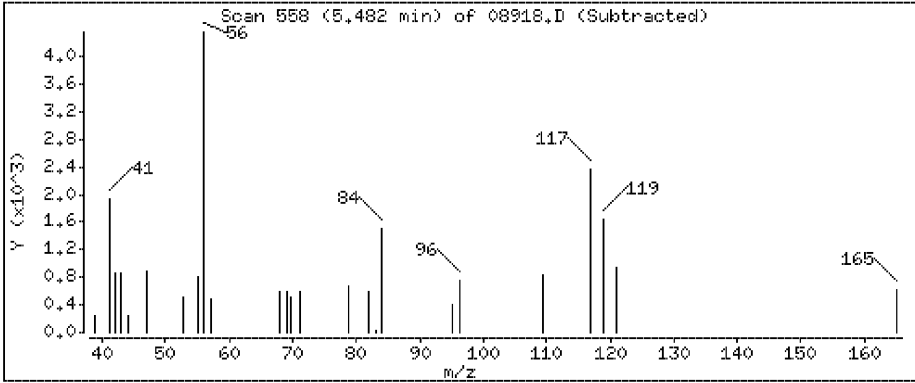
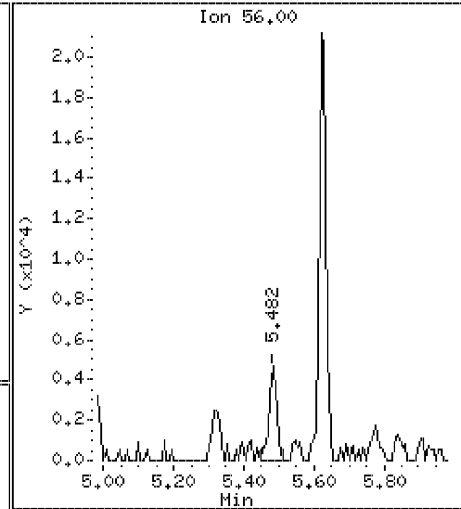
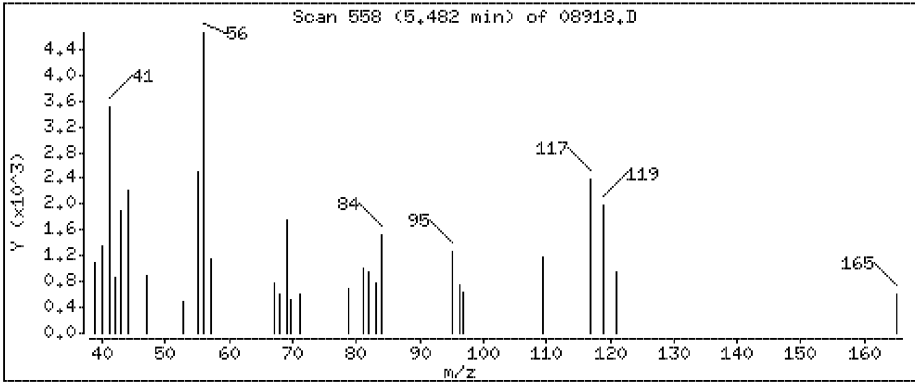
Concentration: 0,0834 ppbv





43 Cyclohexane

Concentration: 0,134 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08918.D

Date : 30-MAR-2019 14:51

Client ID:

Instrument: 10airI.i

Sample Info:

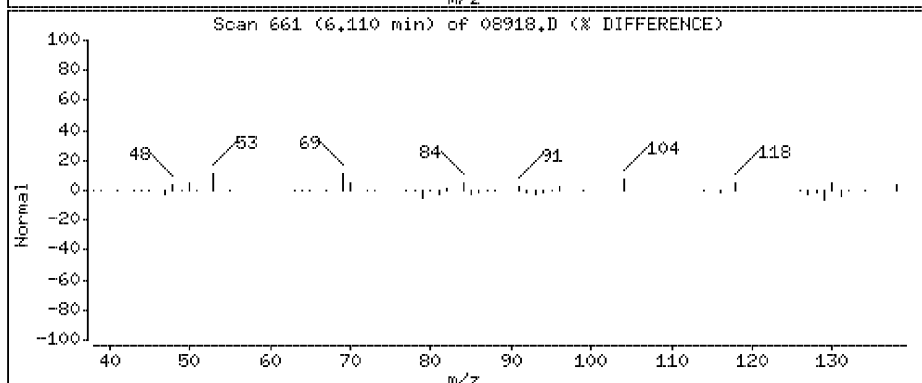
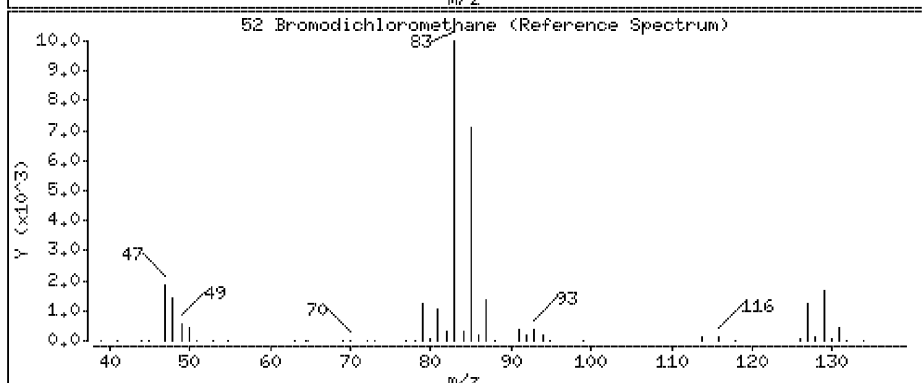
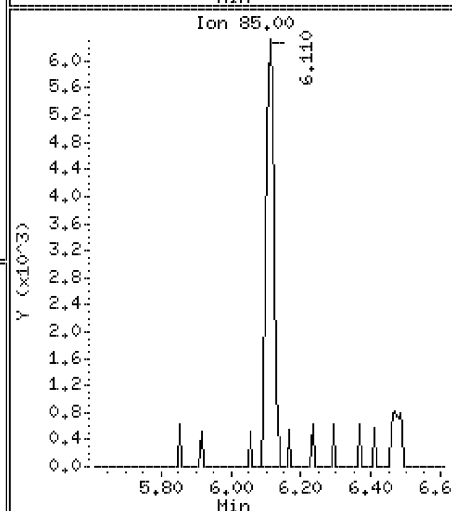
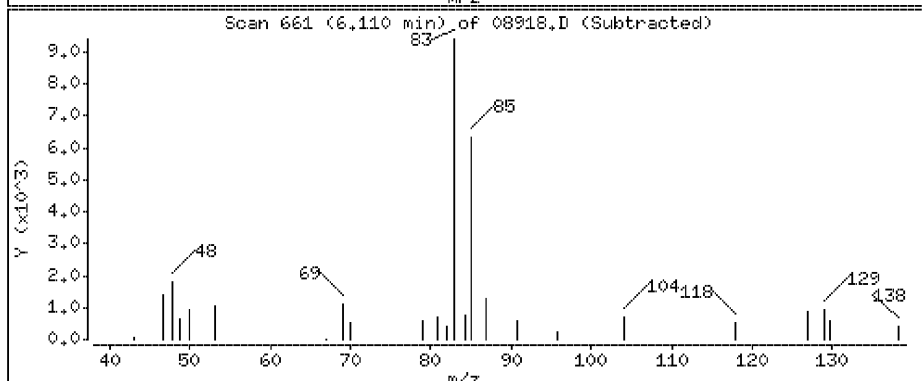
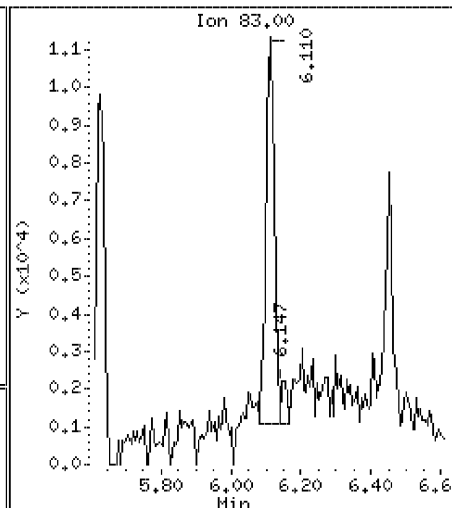
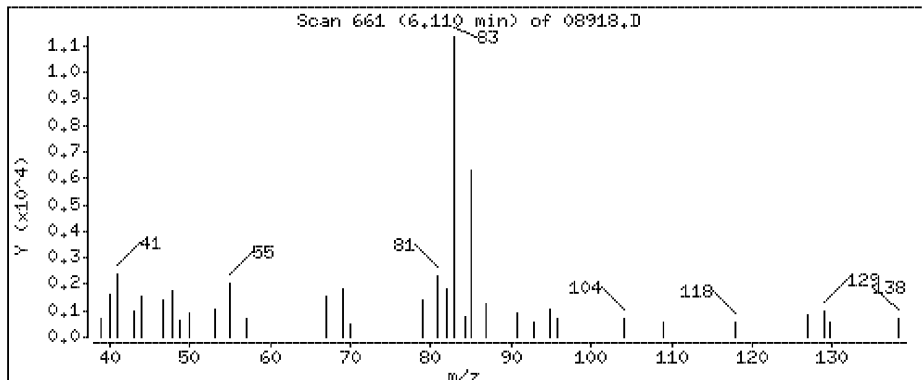
Operator: MJL

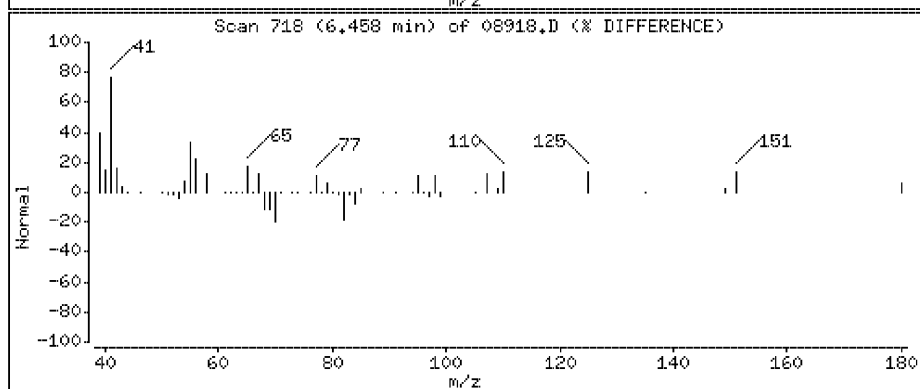
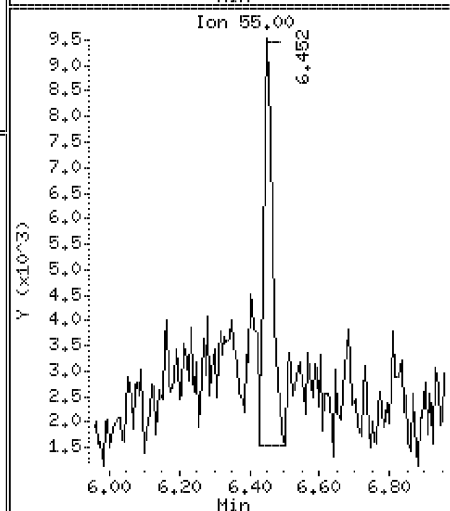
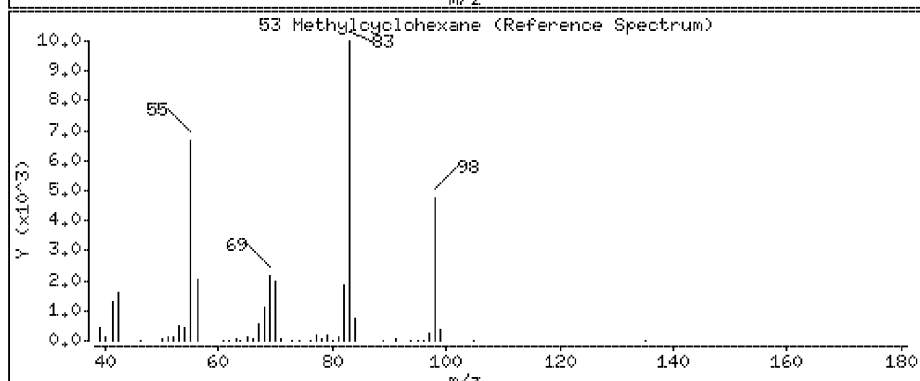
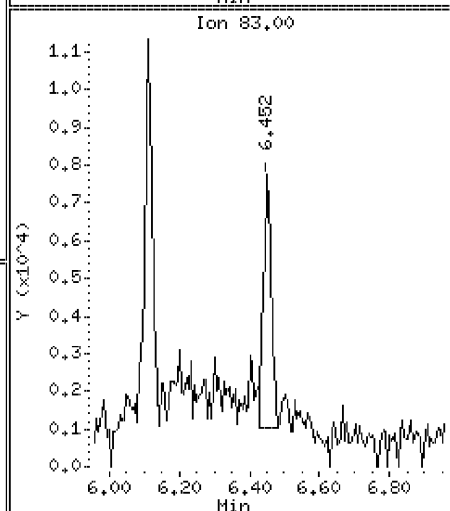
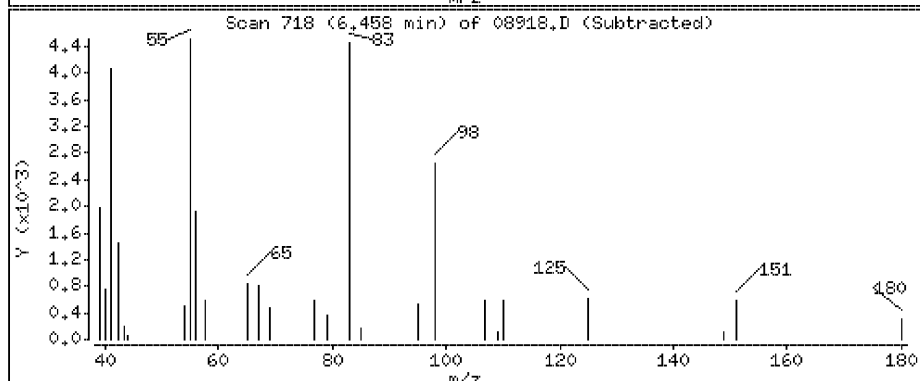
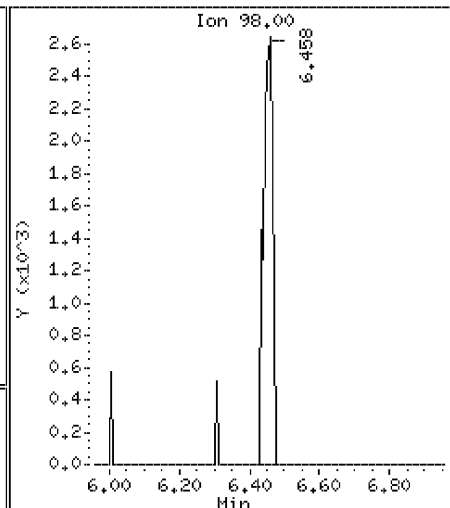
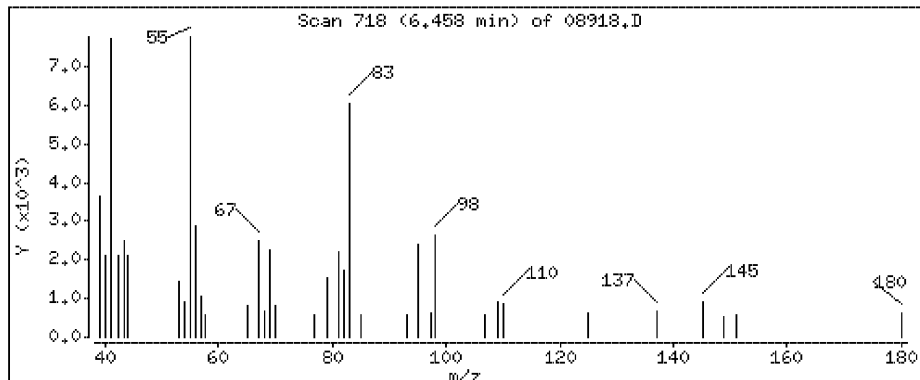
Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

52 Bromodichloromethane

Concentration: 0.258 ppbv





Data File: \\192.168.10.12\chem\10airI,i\033019,b\08918.D

Date : 30-MAR-2019 14:51

Client ID:

Instrument: 10airI.i

Sample Info:

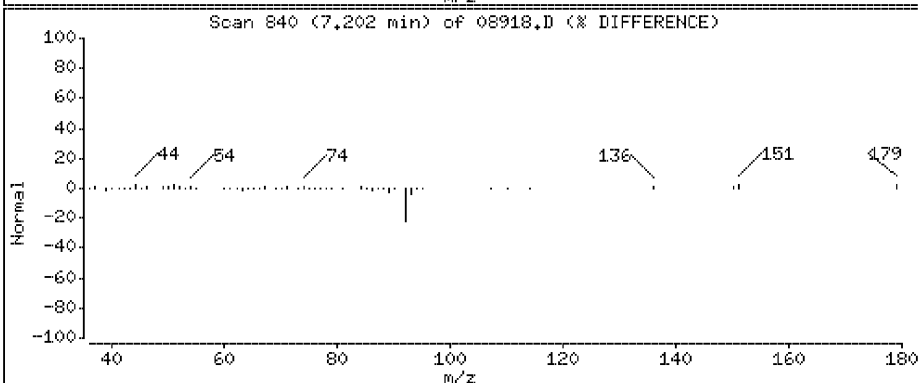
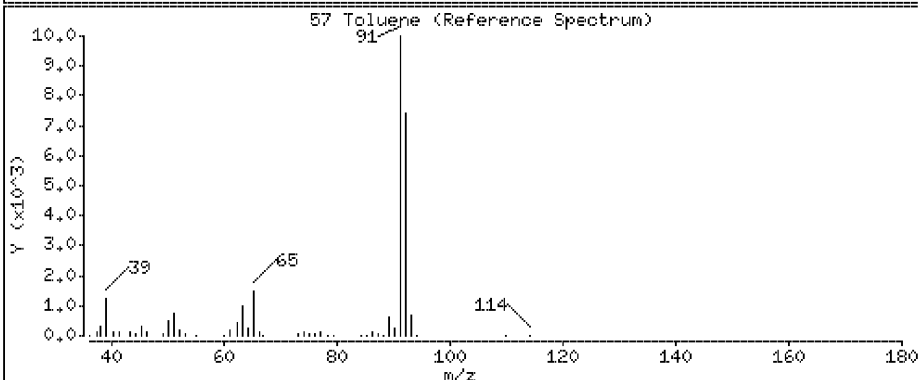
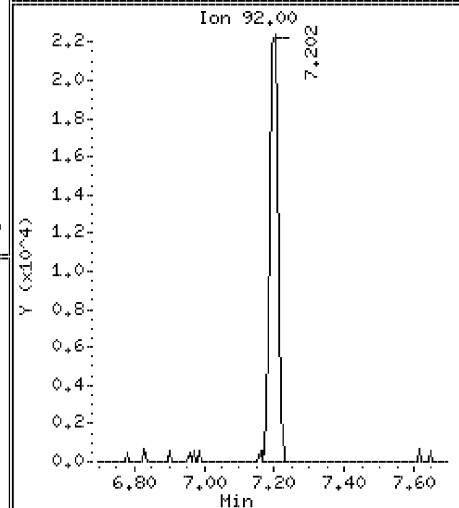
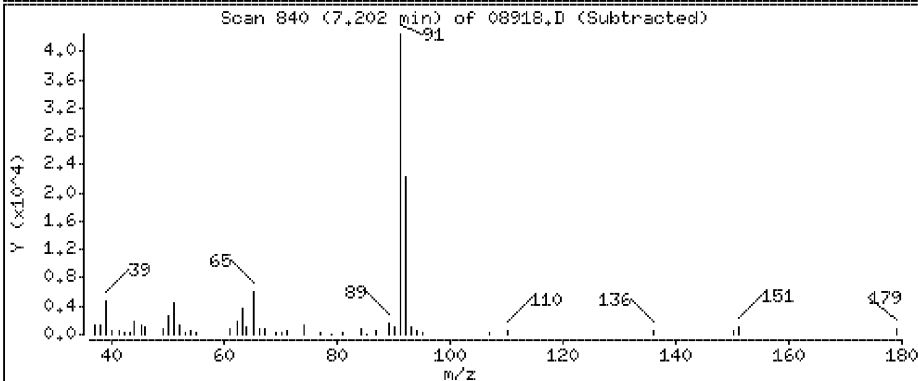
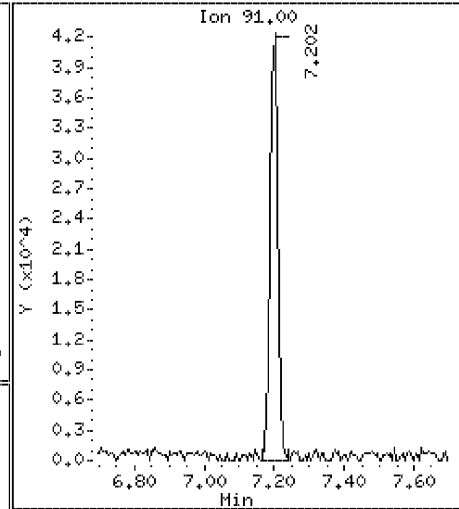
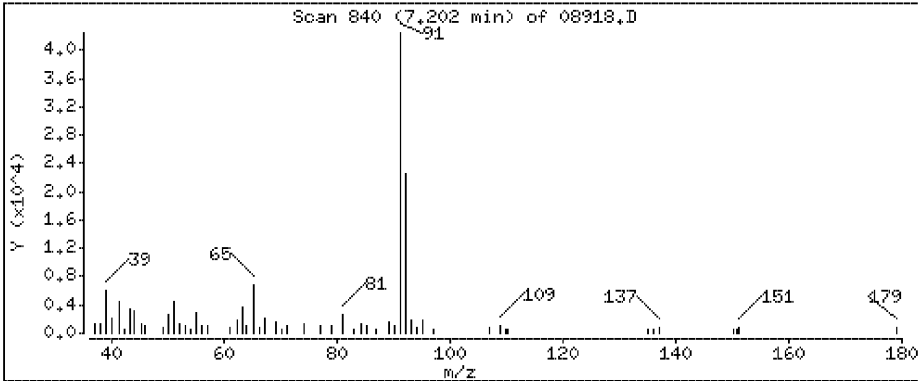
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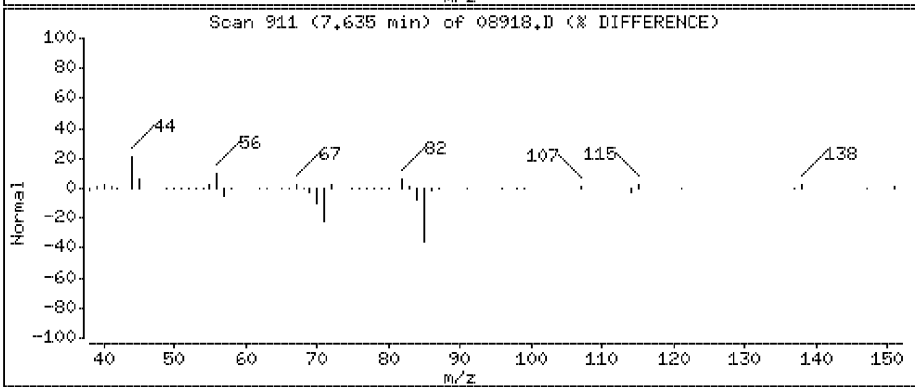
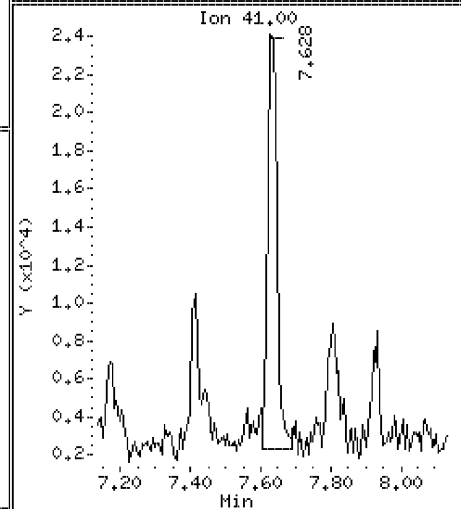
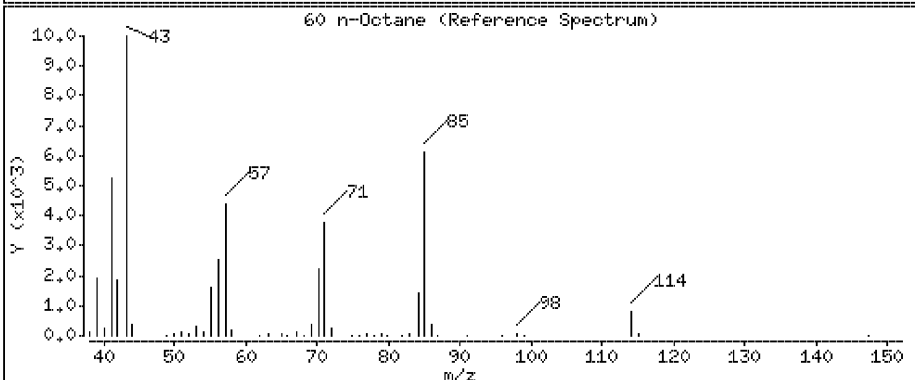
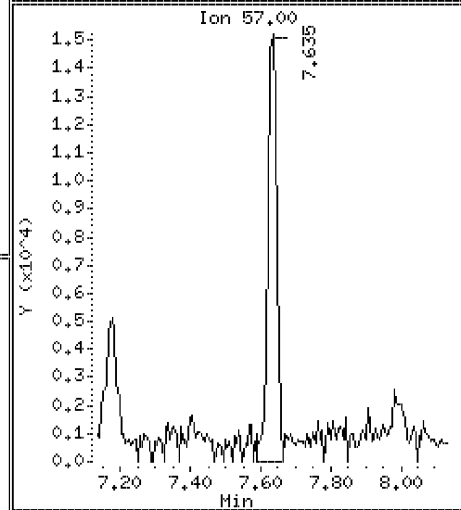
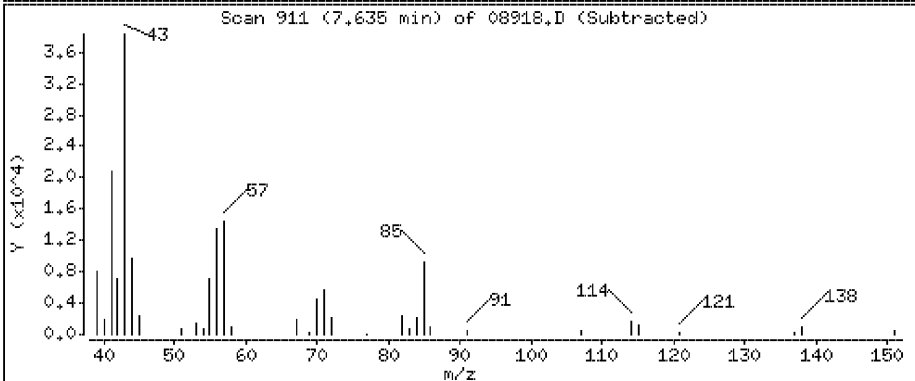
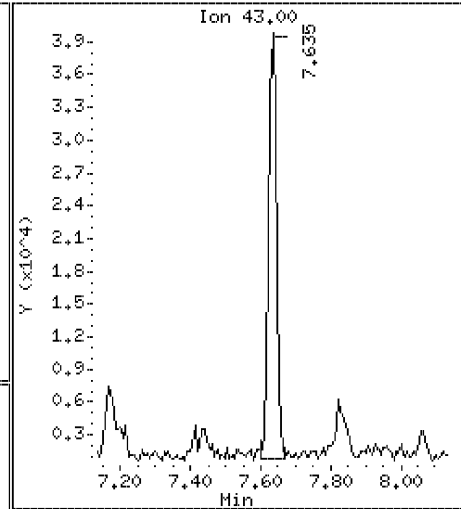
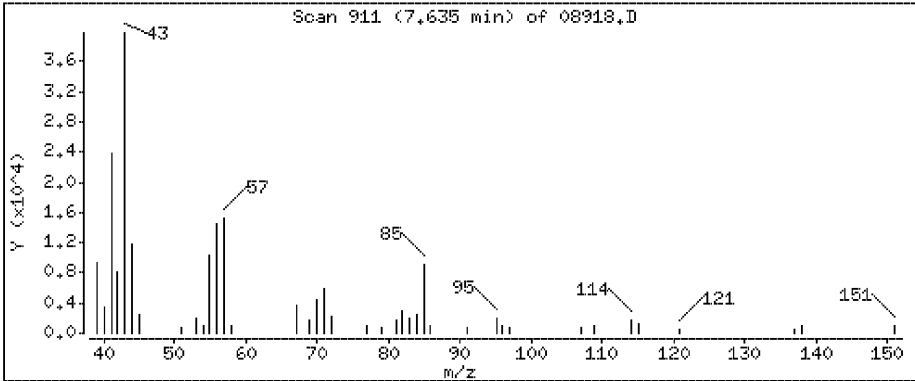
Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

57 Toluene

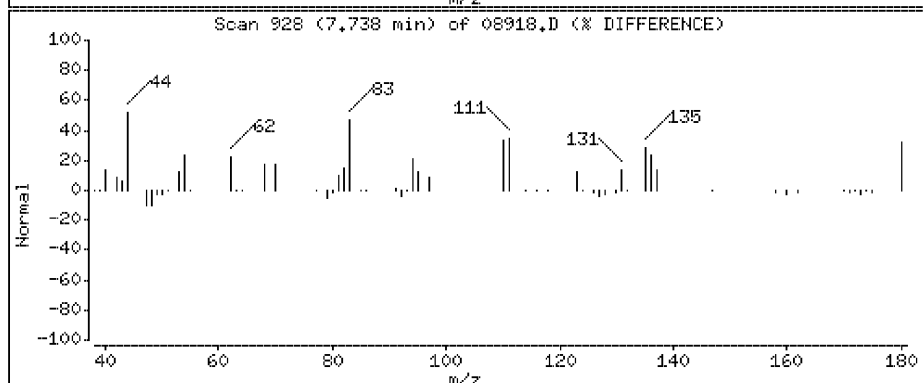
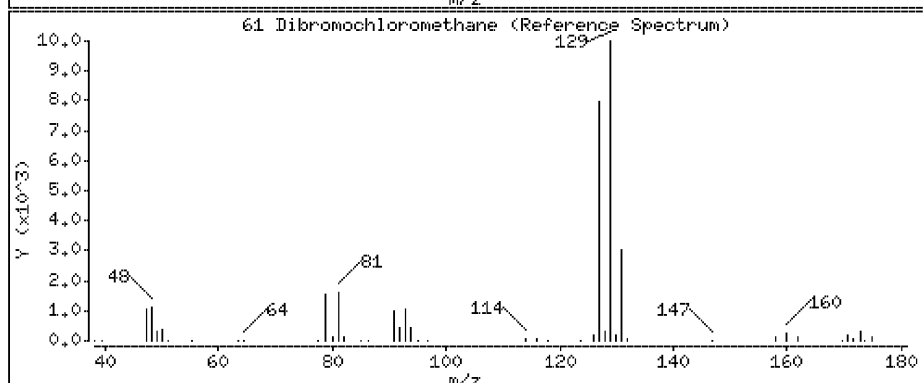
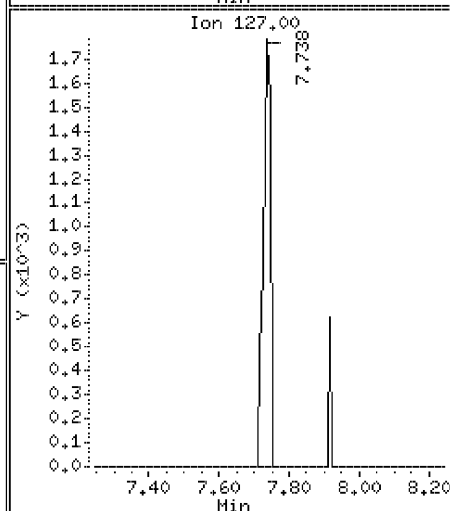
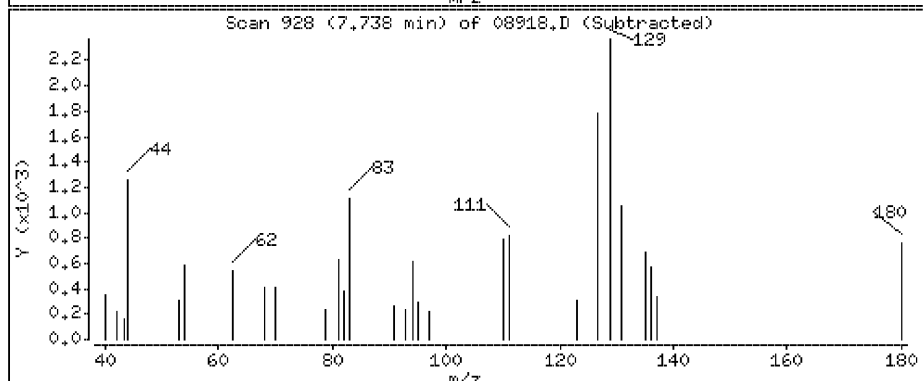
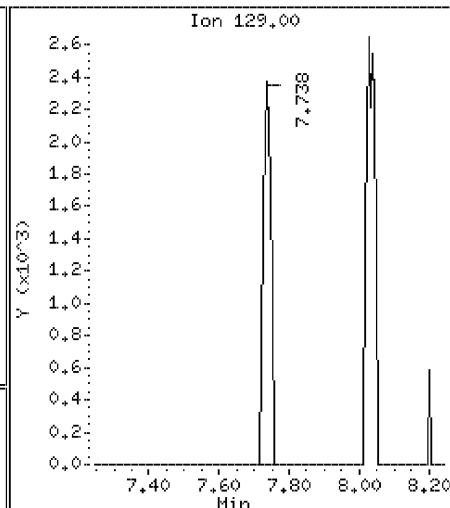
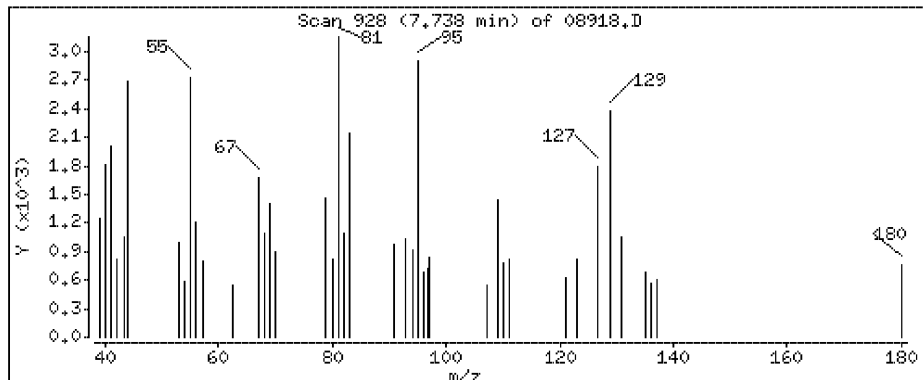
Concentration: 0.647 ppbv





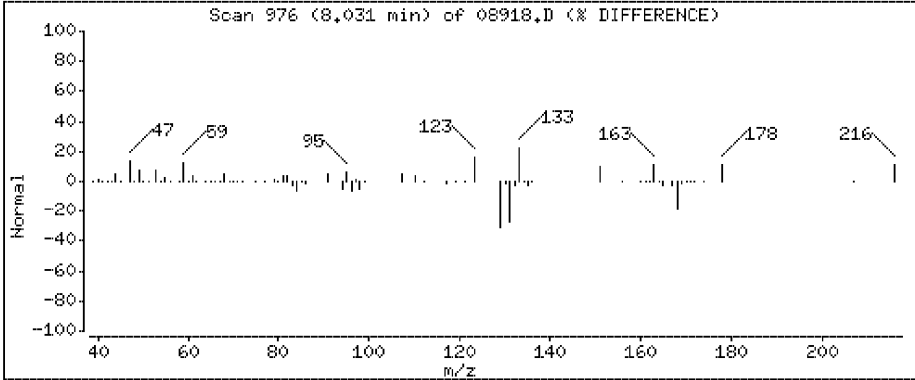
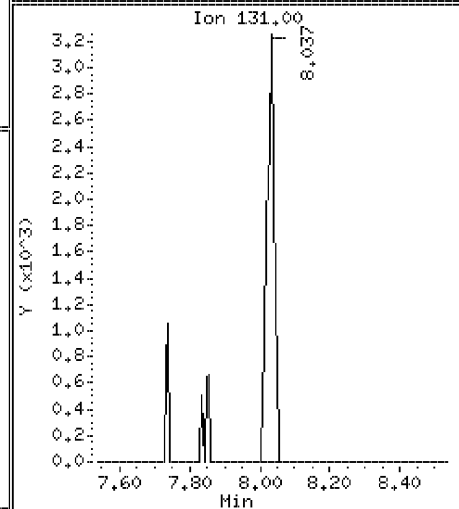
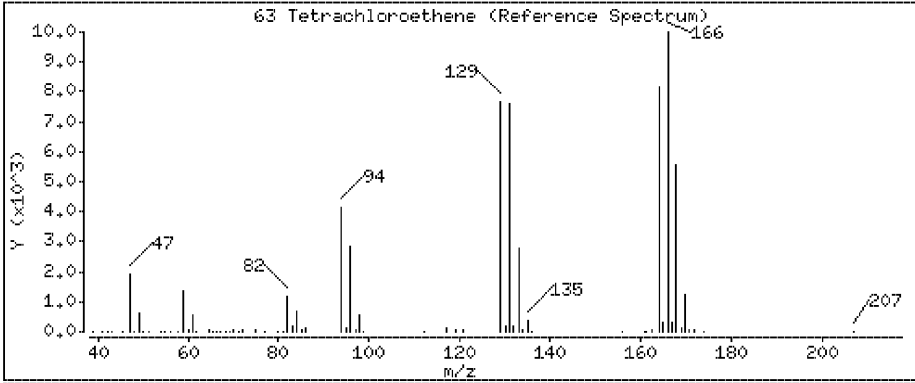
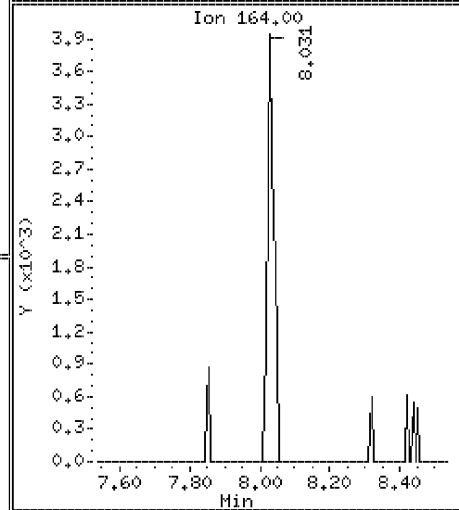
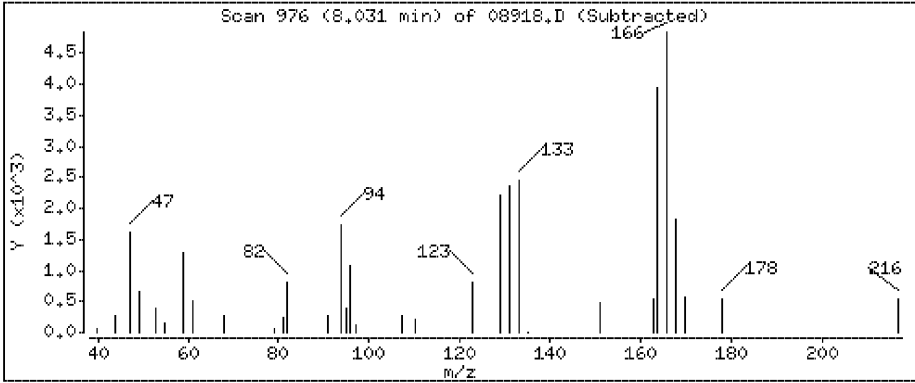
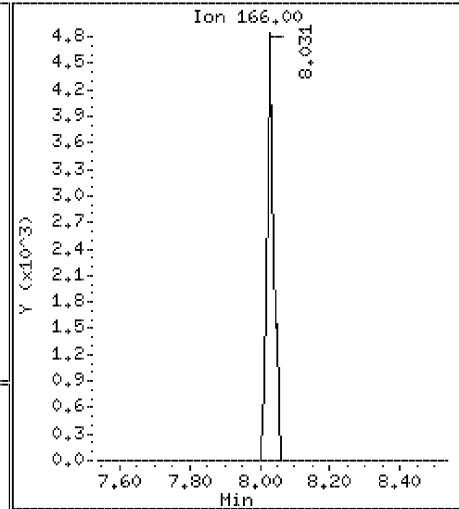
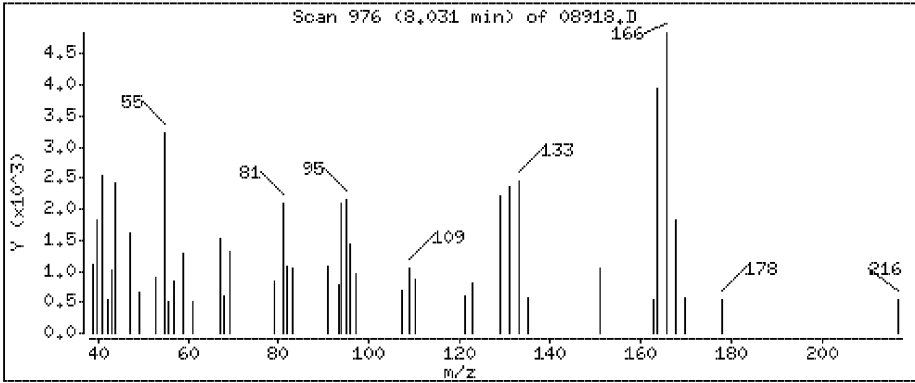
61 Dibromochloromethane

Concentration: 0.0761 ppbv



63 Tetrachloroethene

Concentration: 0,169 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08918.D

Date : 30-MAR-2019 14:51

Client ID:

Instrument: 10airI.i

Sample Info:

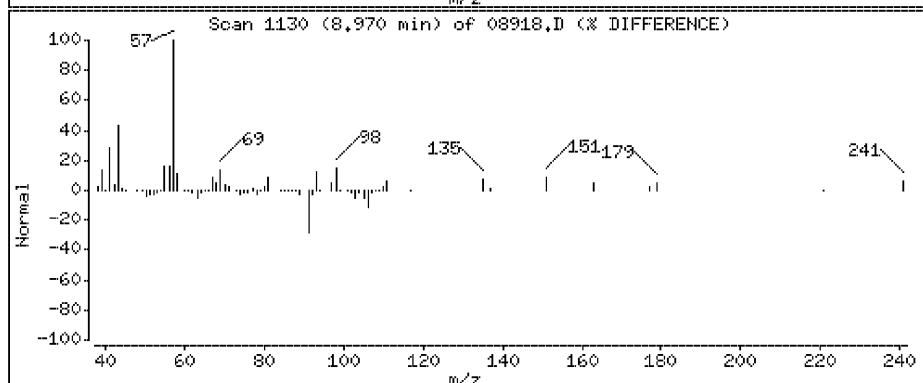
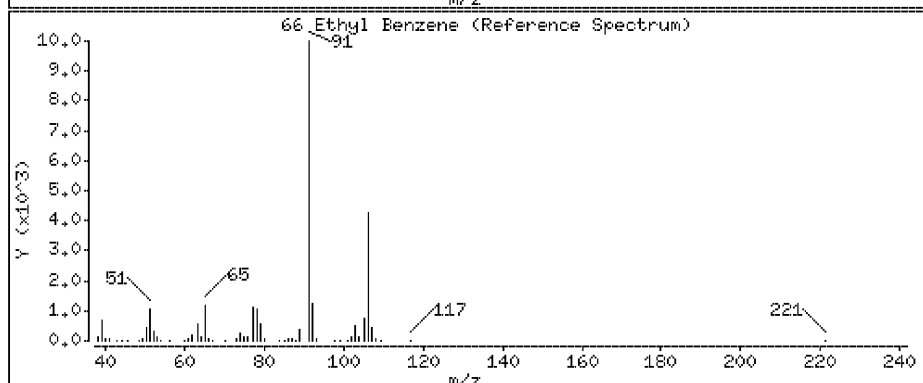
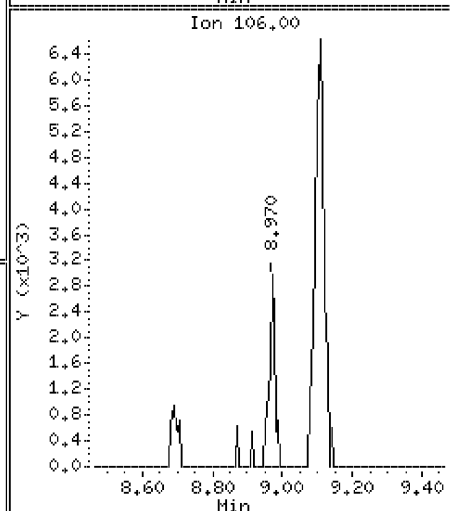
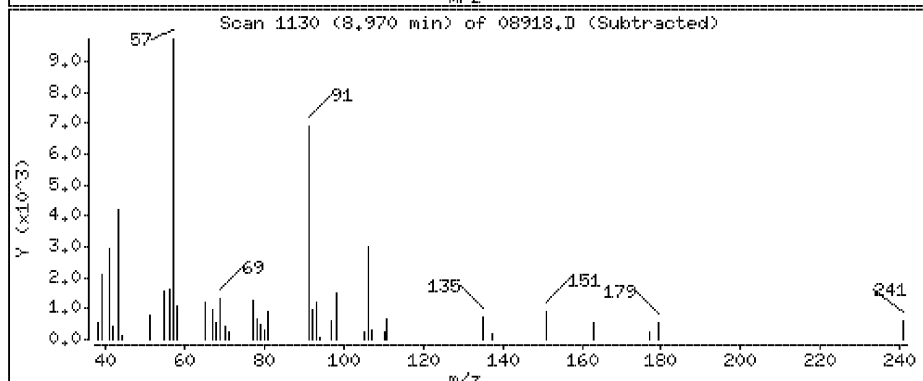
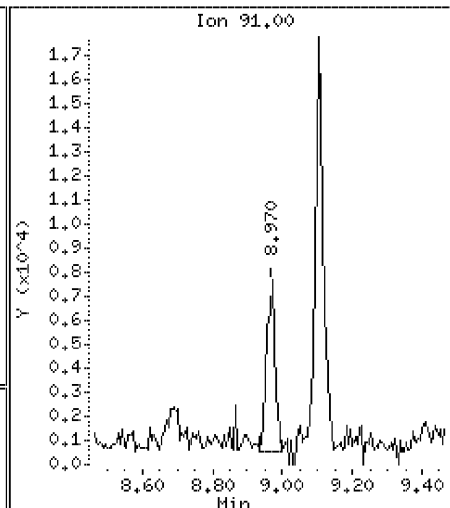
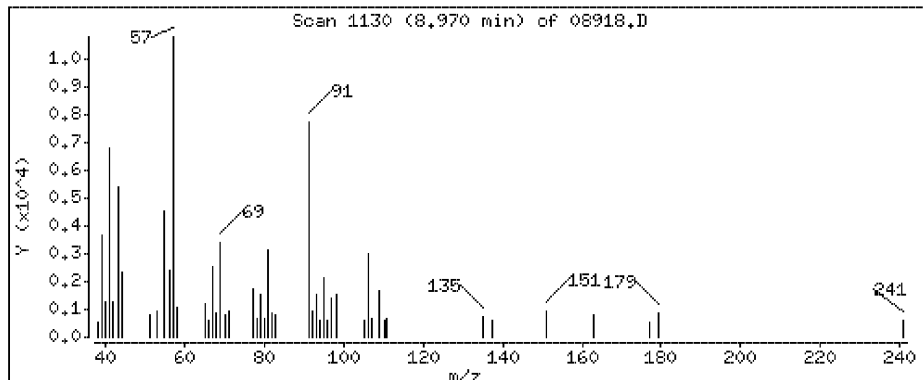
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

66 Ethyl Benzene

Concentration: 0.0995 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08918.D

Date : 30-MAR-2019 14:51

Client ID:

Instrument: 10airI.i

Sample Info:

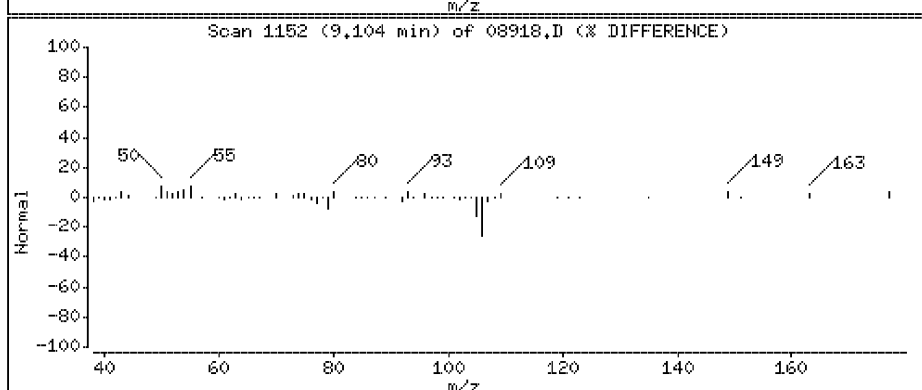
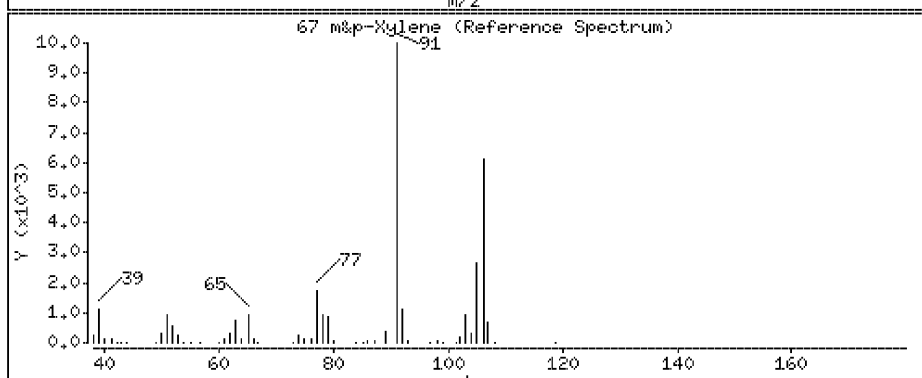
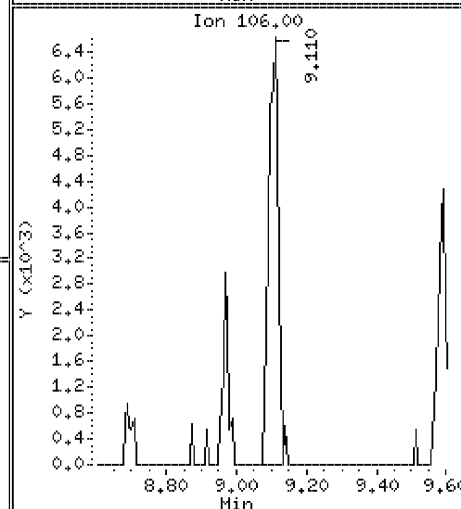
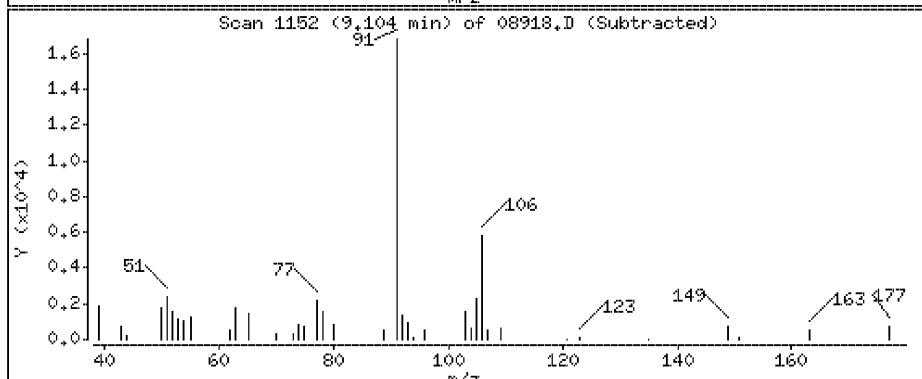
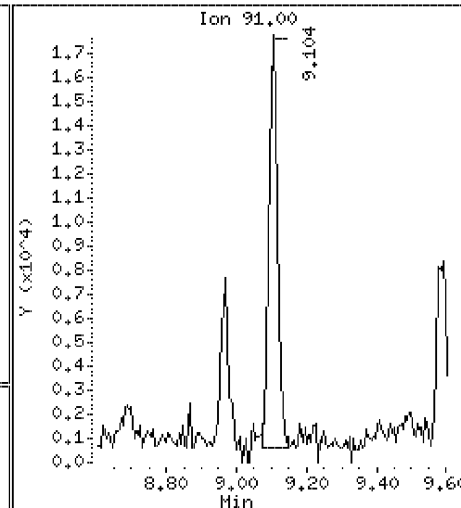
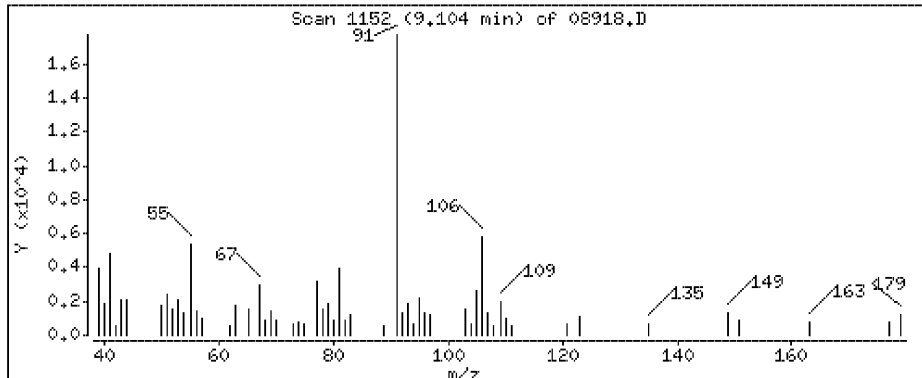
Operator: HJL

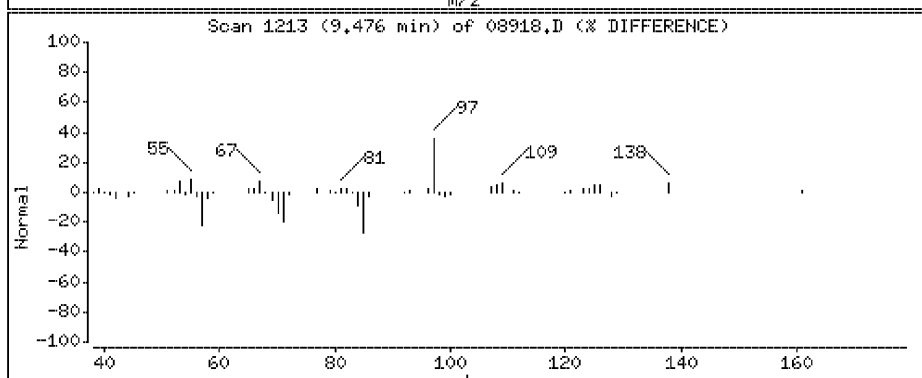
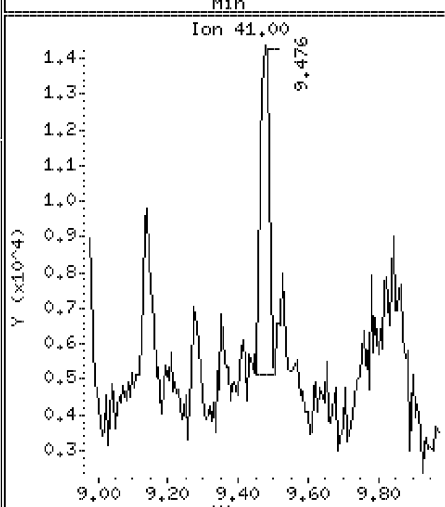
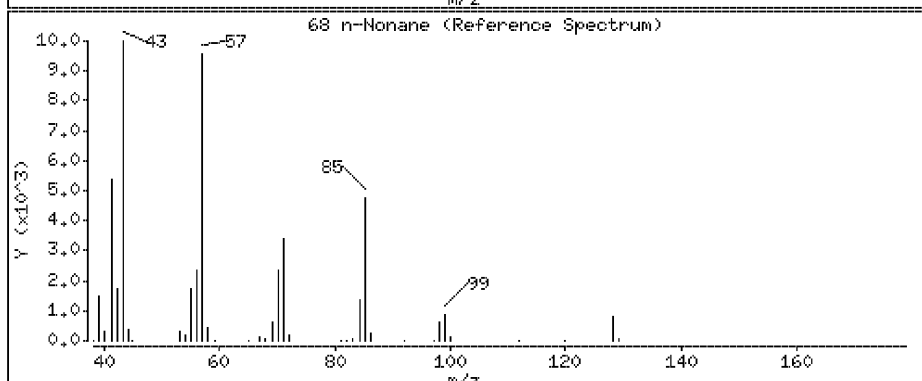
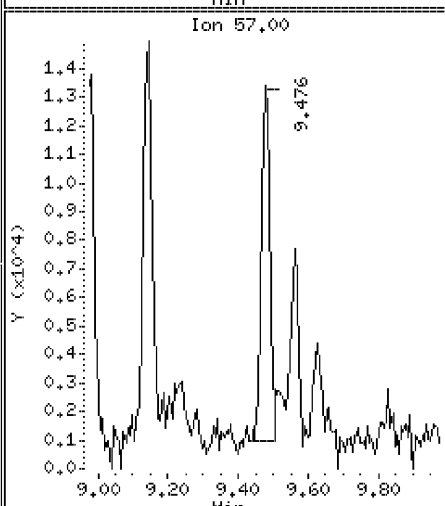
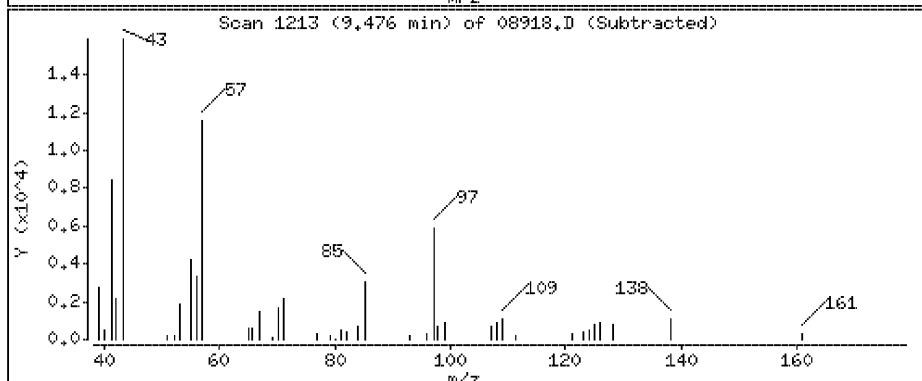
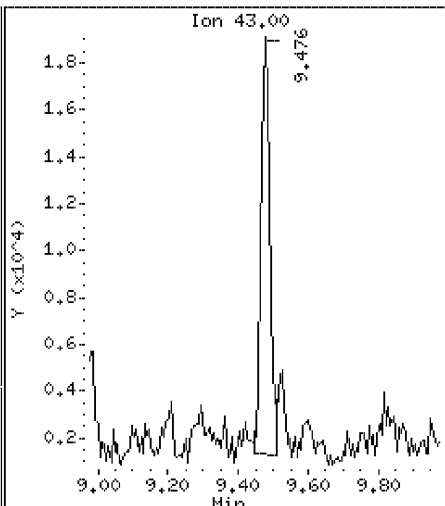
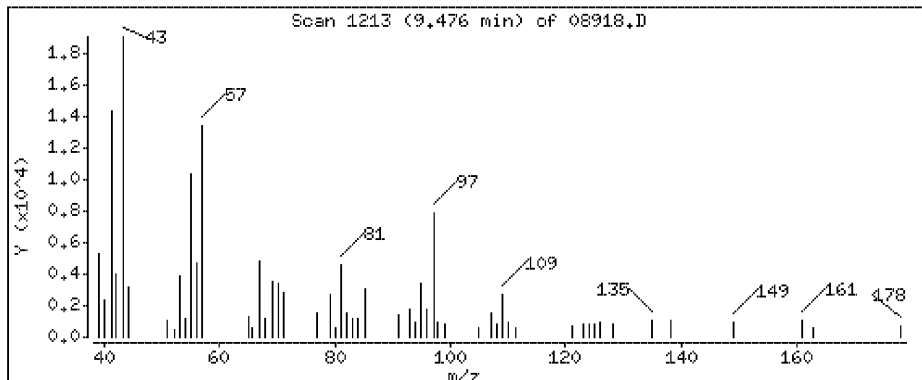
Column phase: DB-5 SN:USD449717H

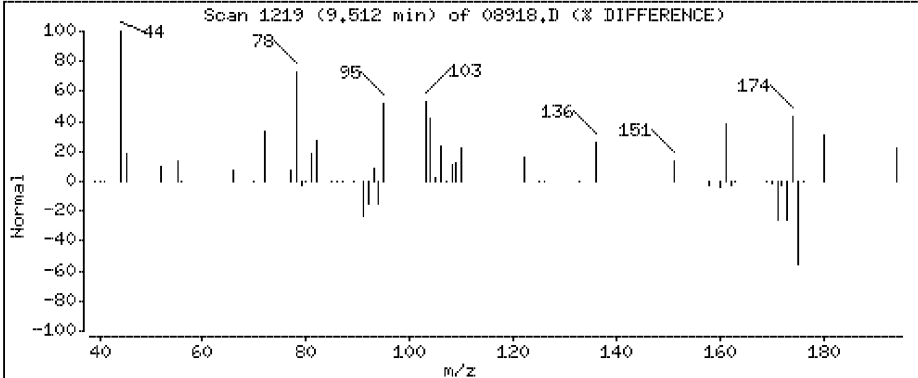
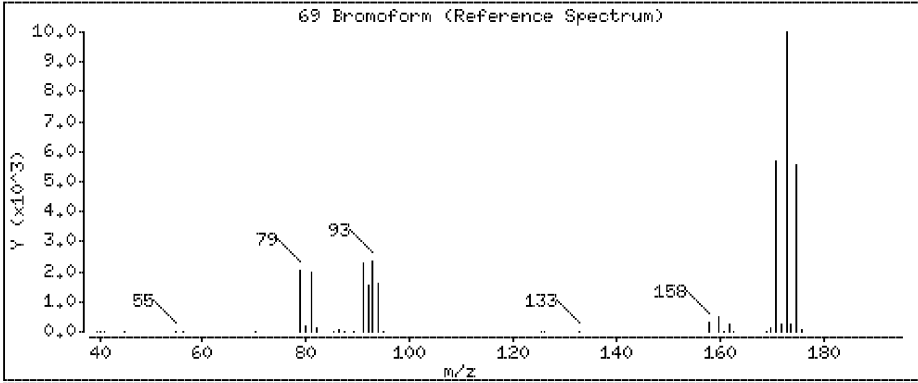
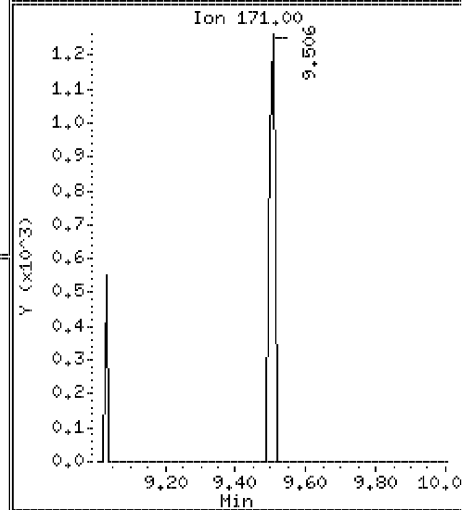
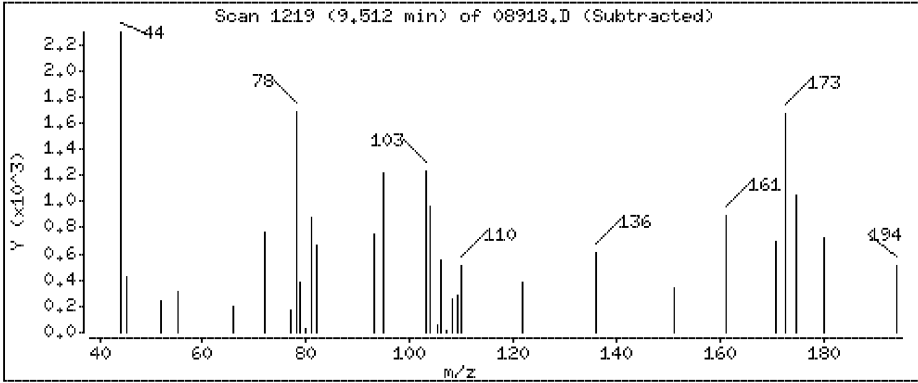
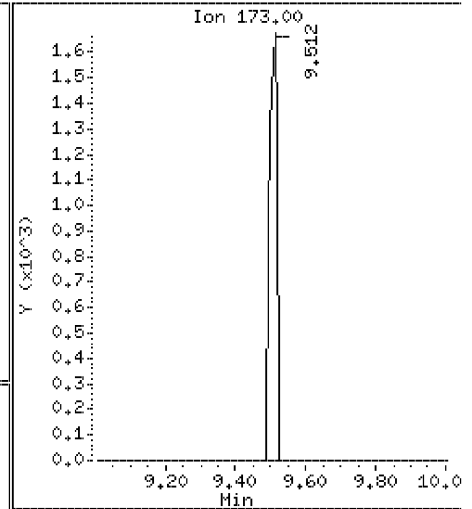
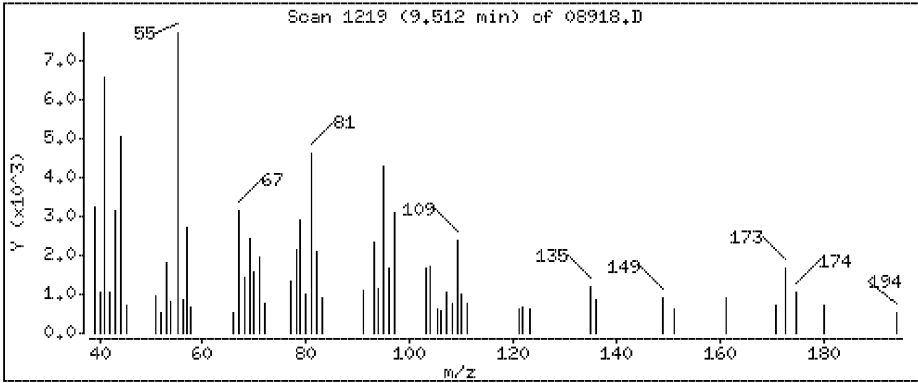
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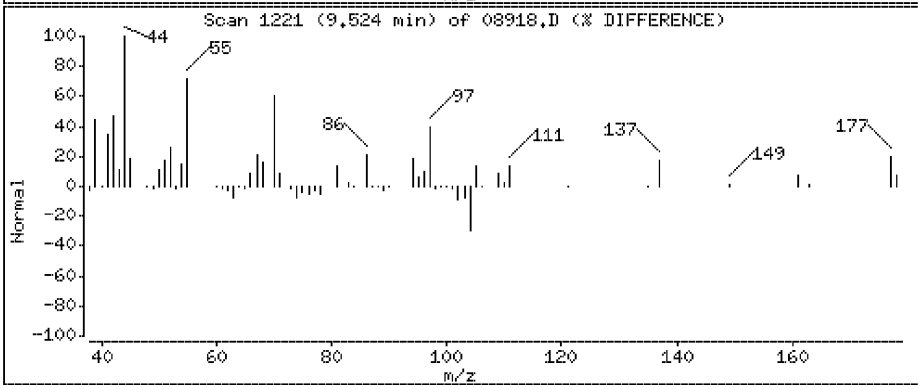
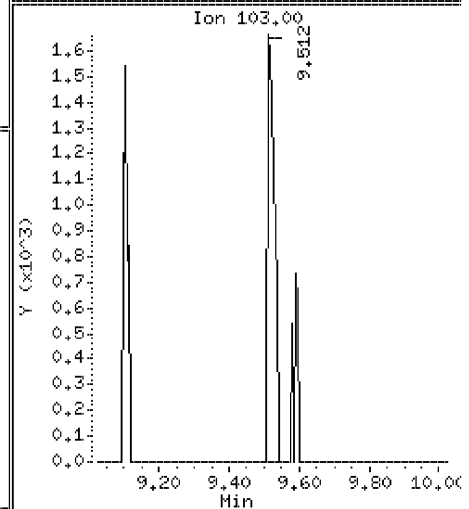
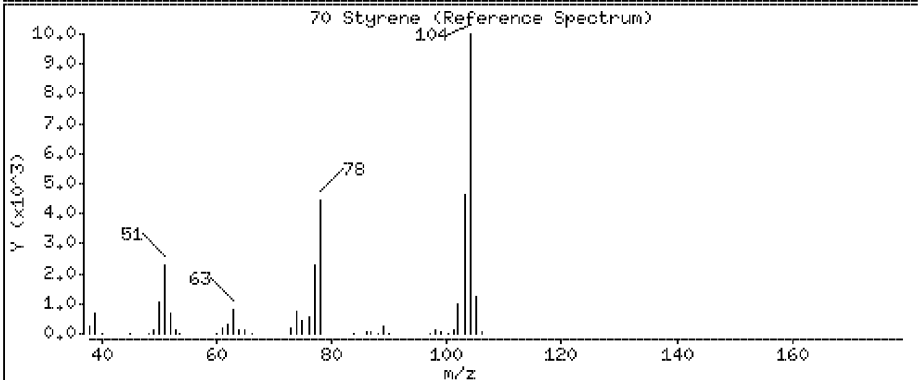
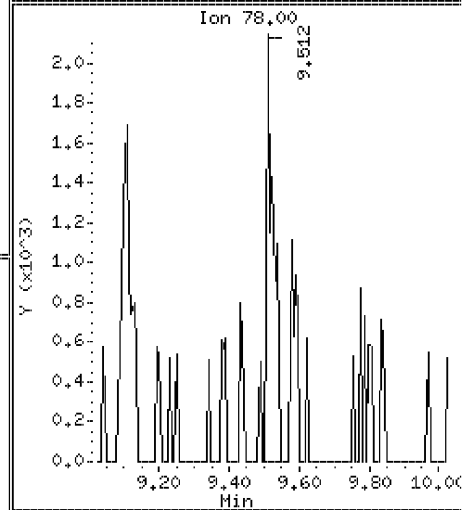
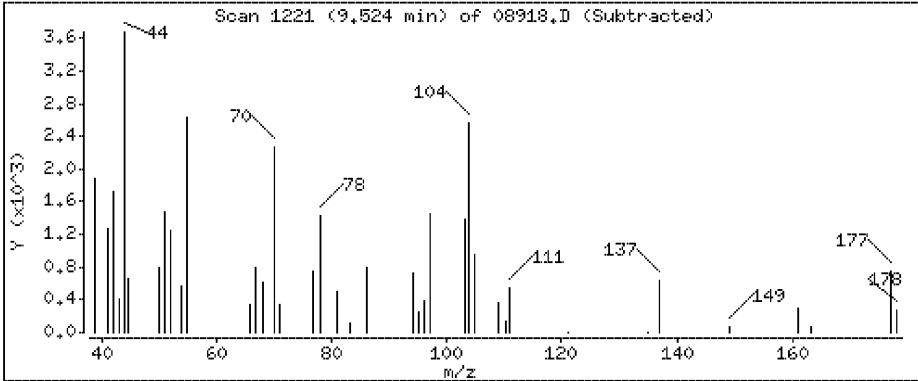
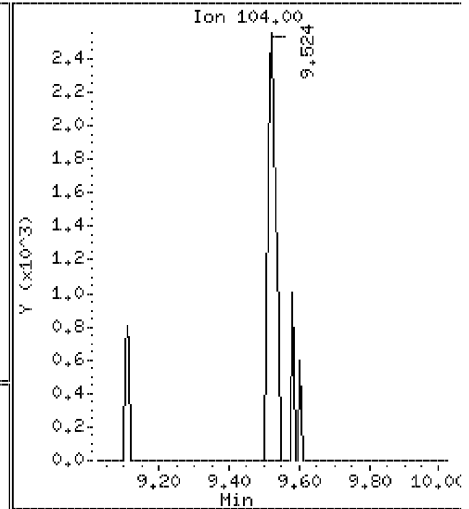
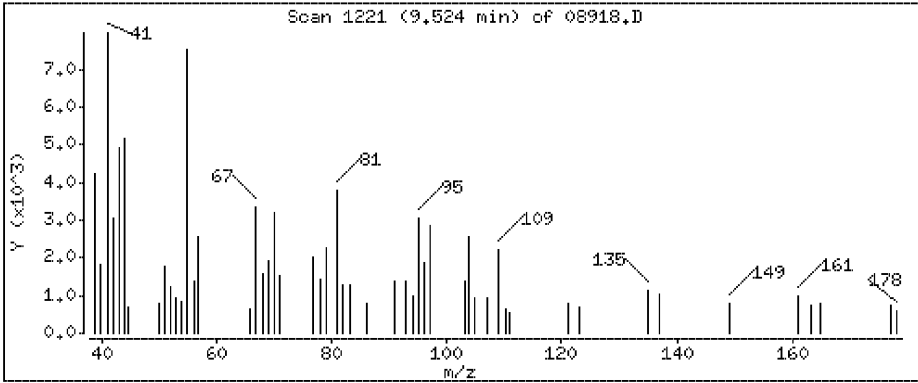
67 m&p-Xylene

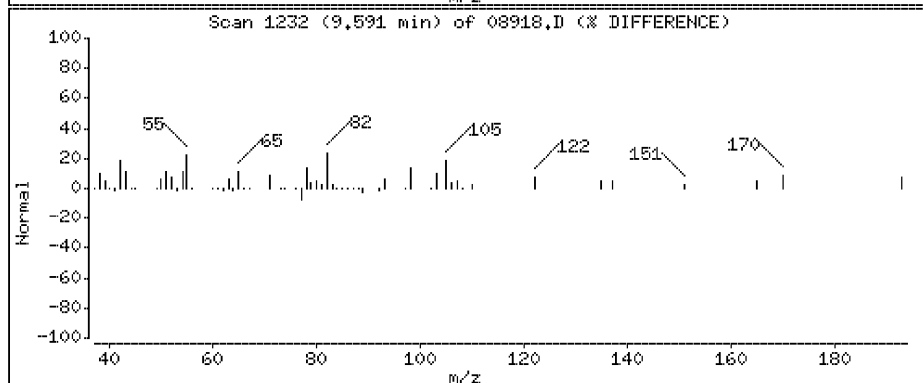
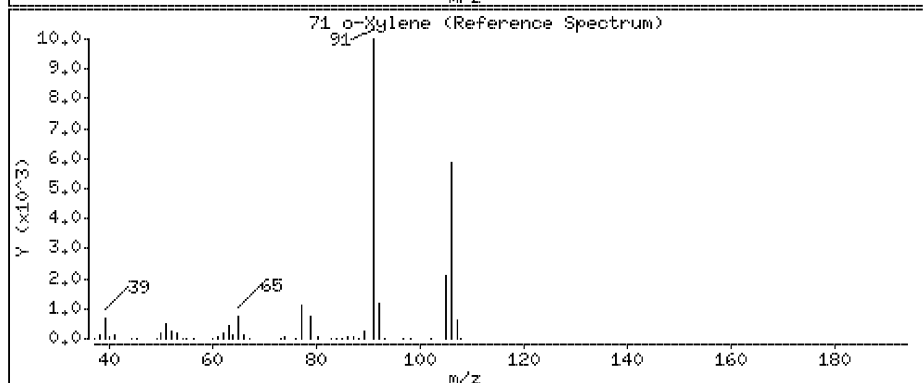
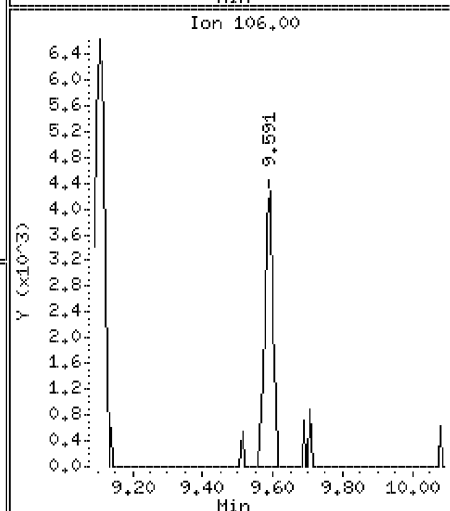
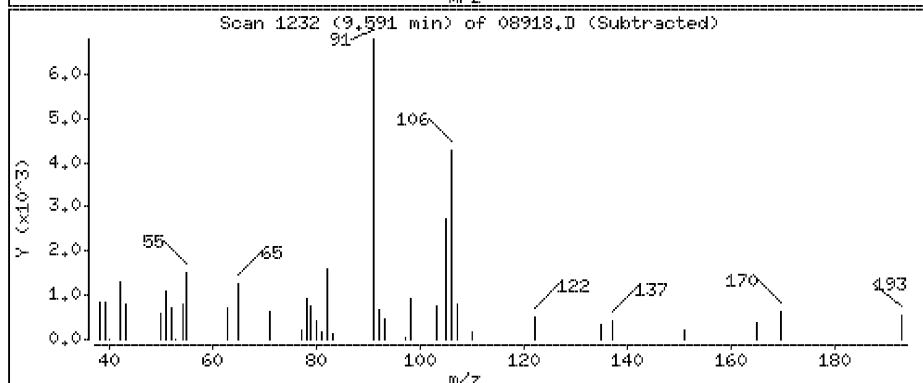
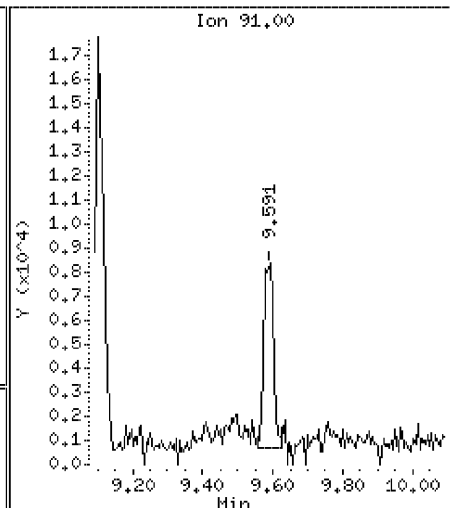
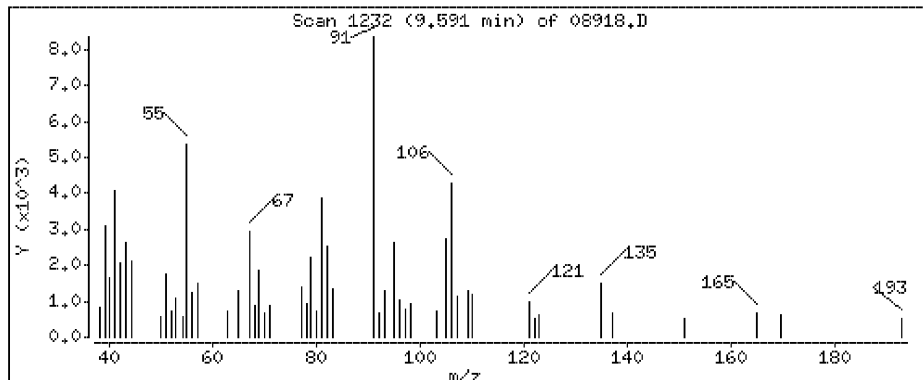
Concentration: 0.320 ppbv

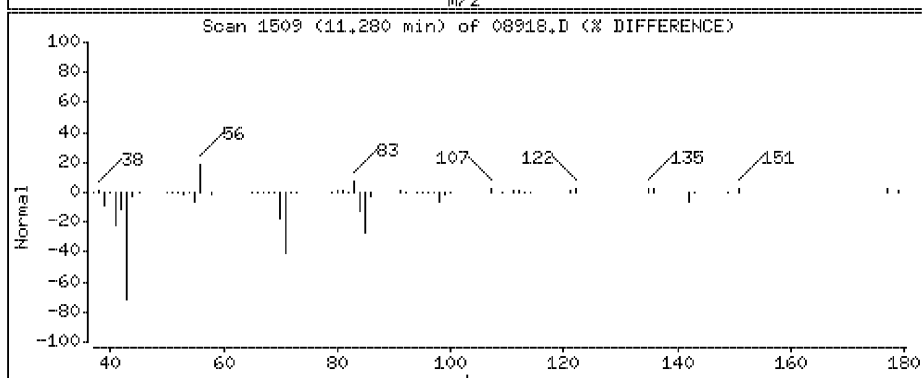
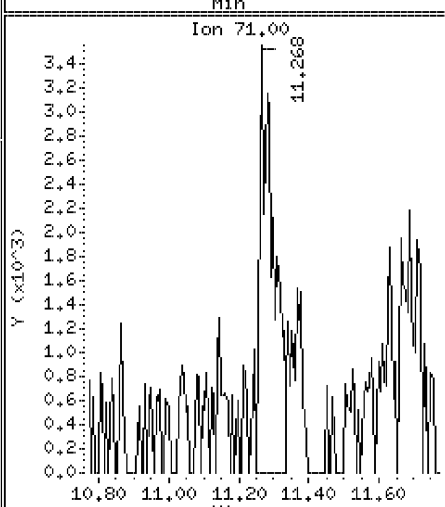
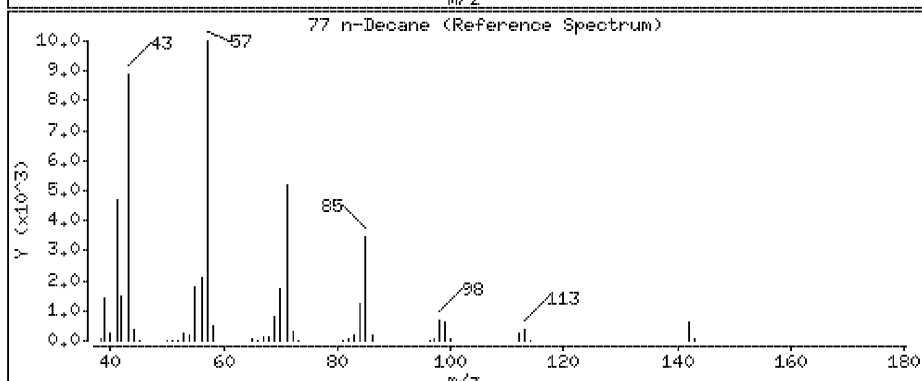
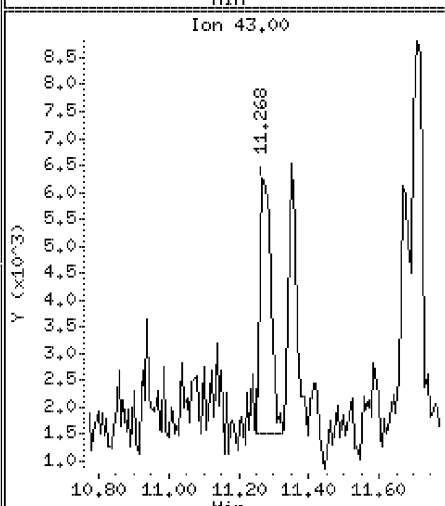
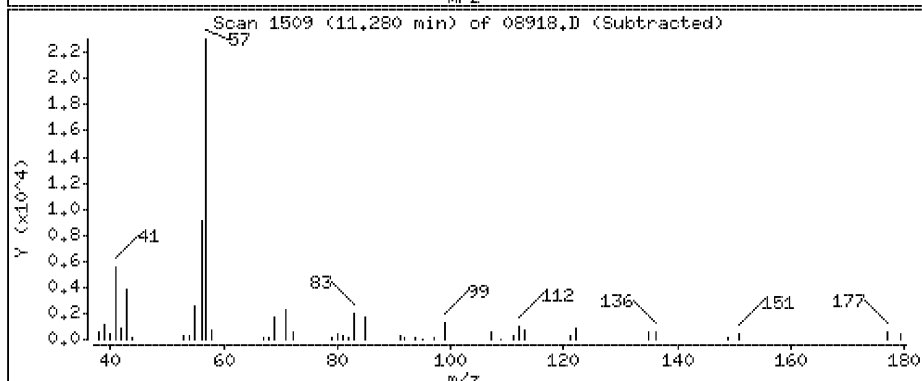
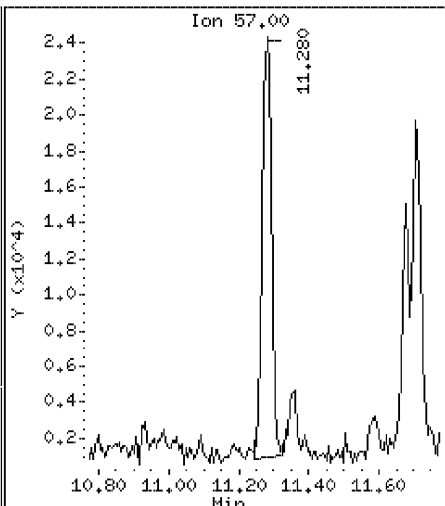
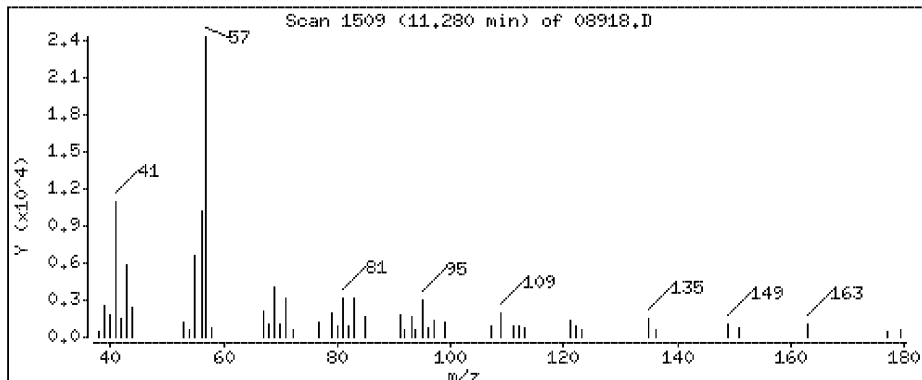


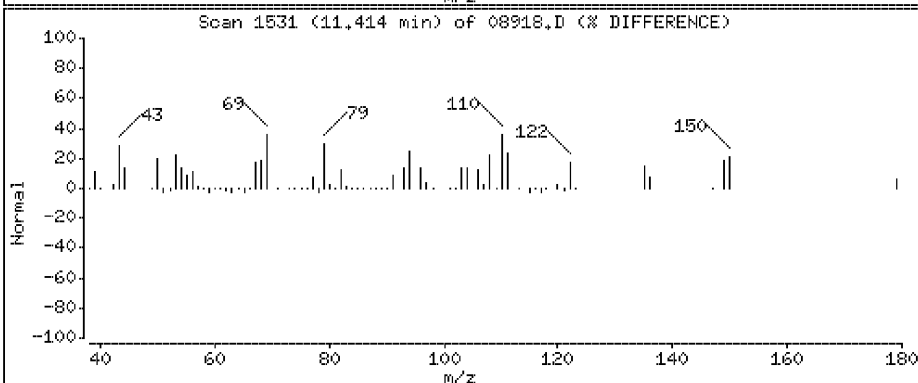
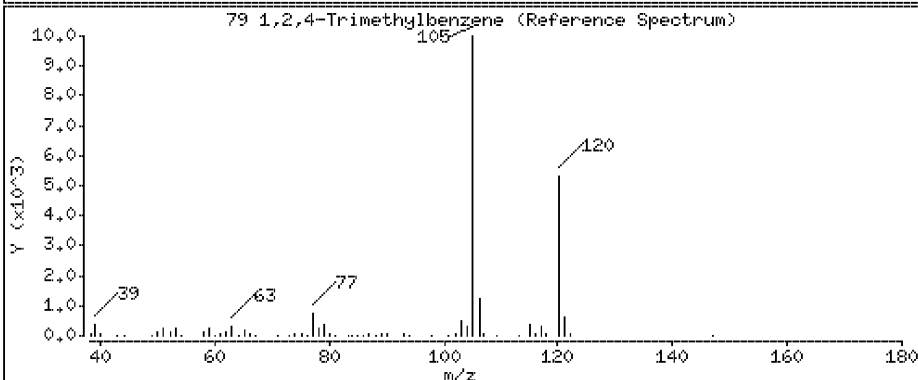
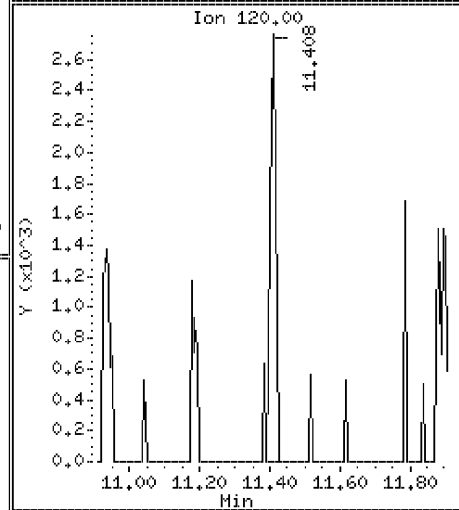
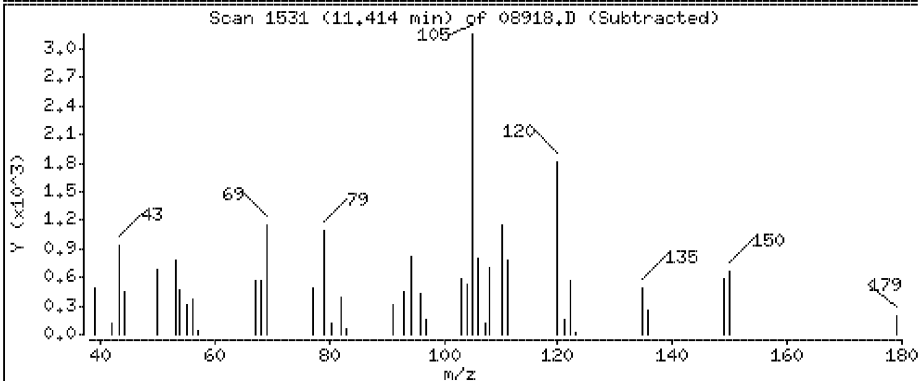
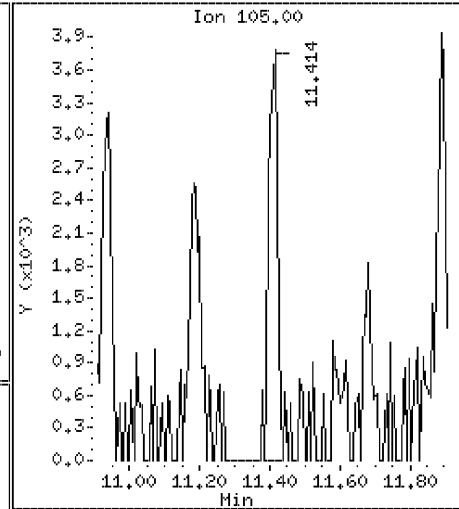
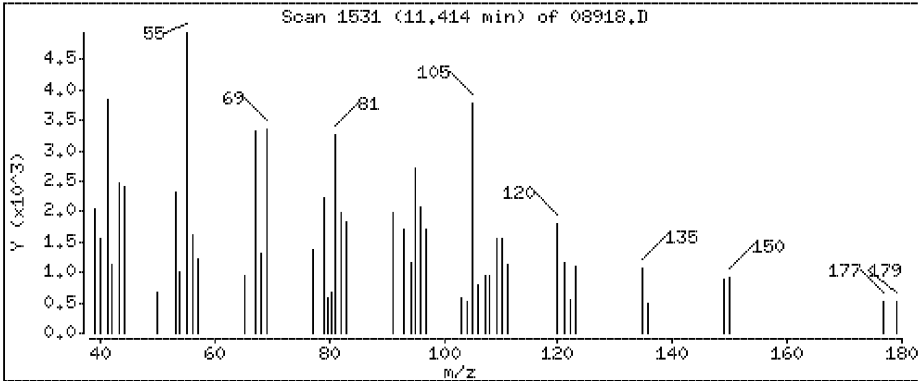












Data File: \\192.168.10.12\chem\10airI,1\033019,b\08918.D

Date : 30-MAR-2019 14:51

Client ID:

Instrument: 10airI.i

Sample Info:

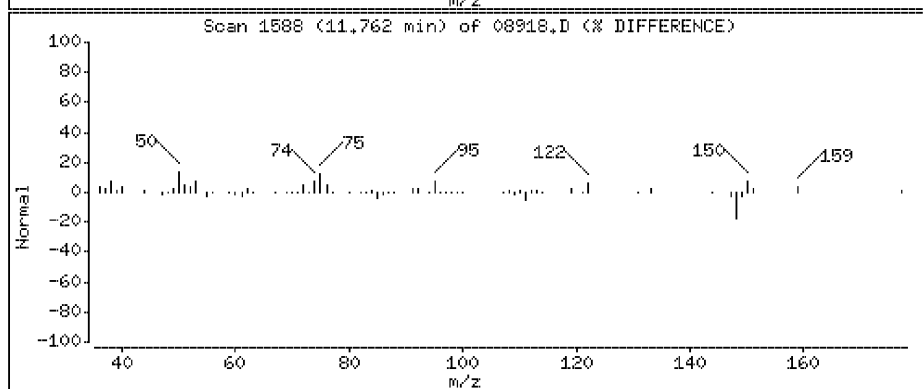
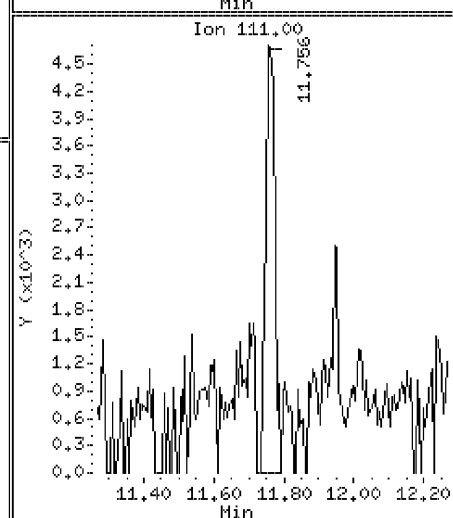
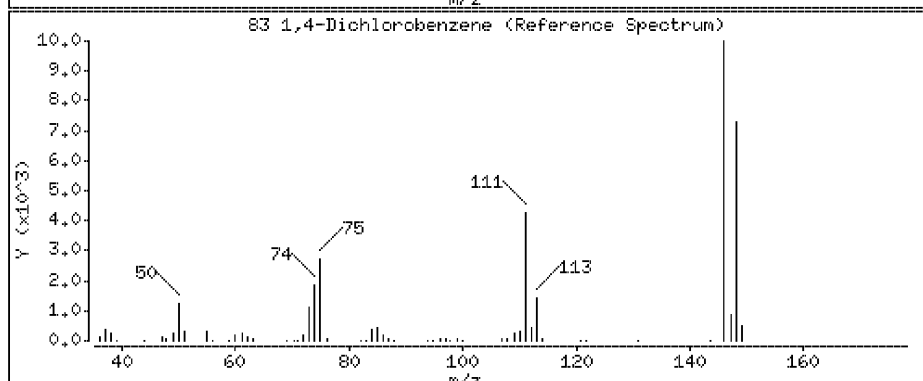
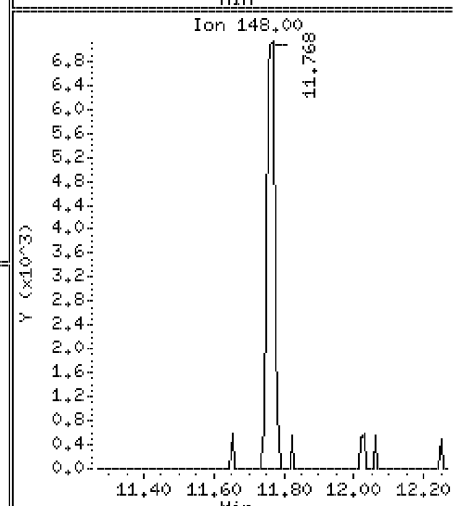
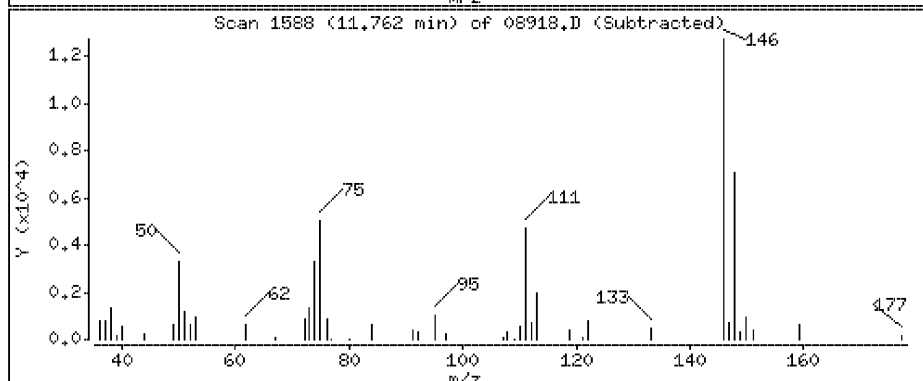
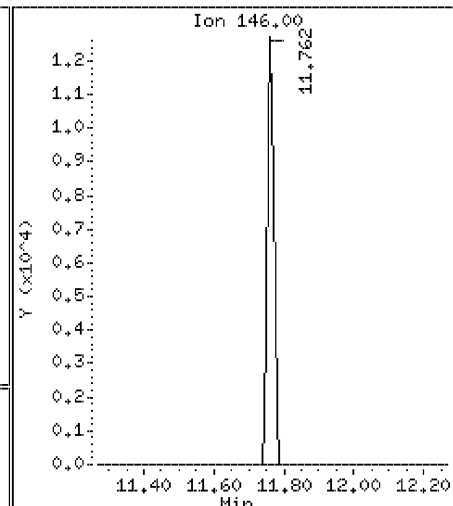
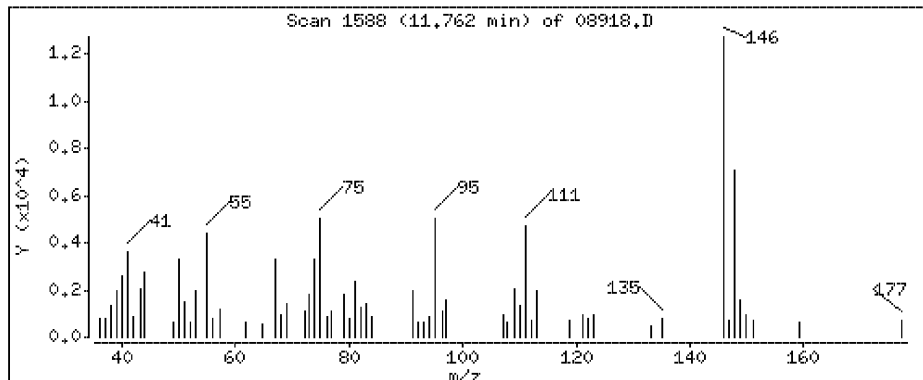
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

83 1,4-Dichlorobenzene

Concentration: 0.314 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08918.D

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Client ID:

Instrument: 10airI.i

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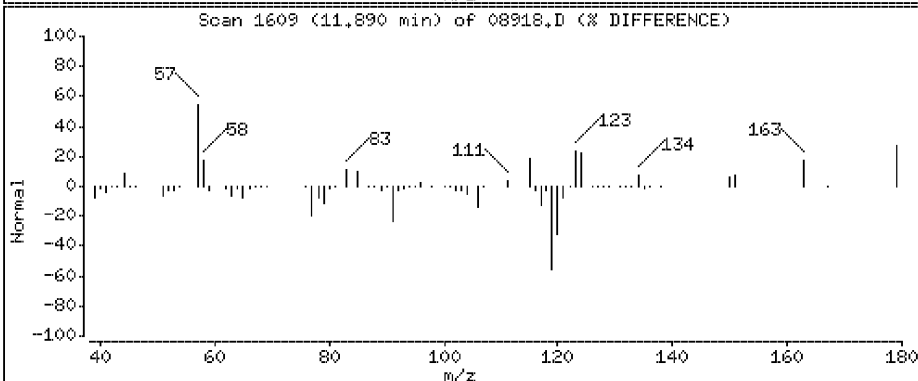
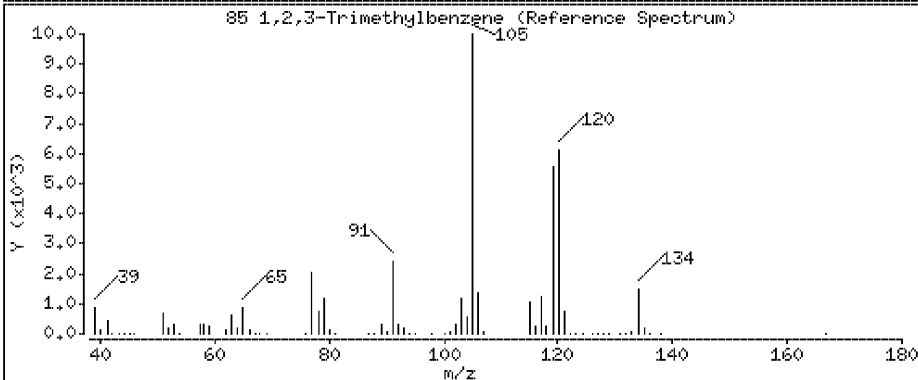
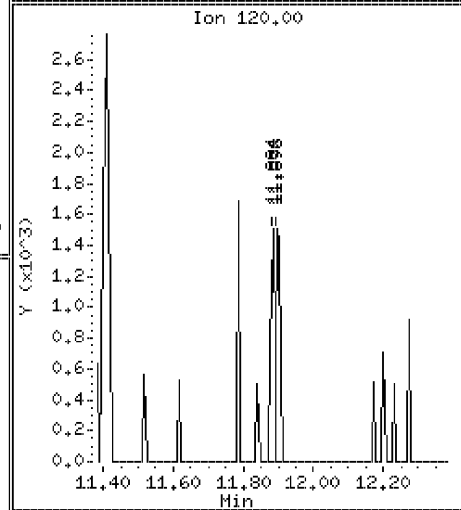
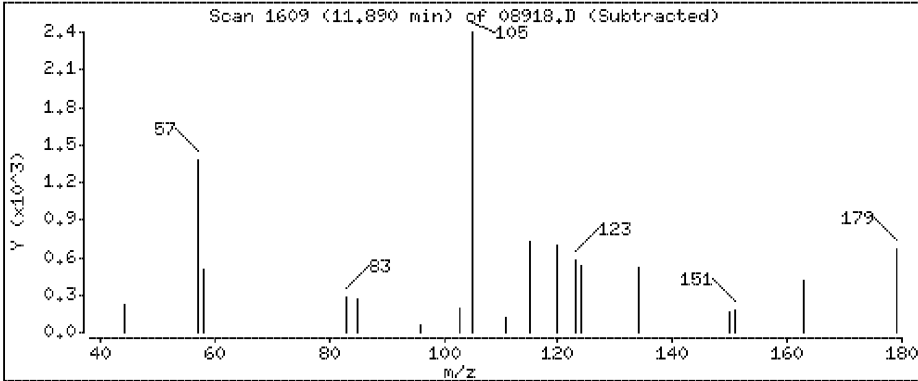
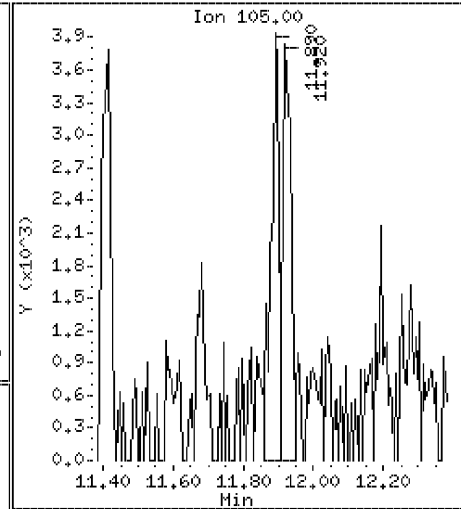
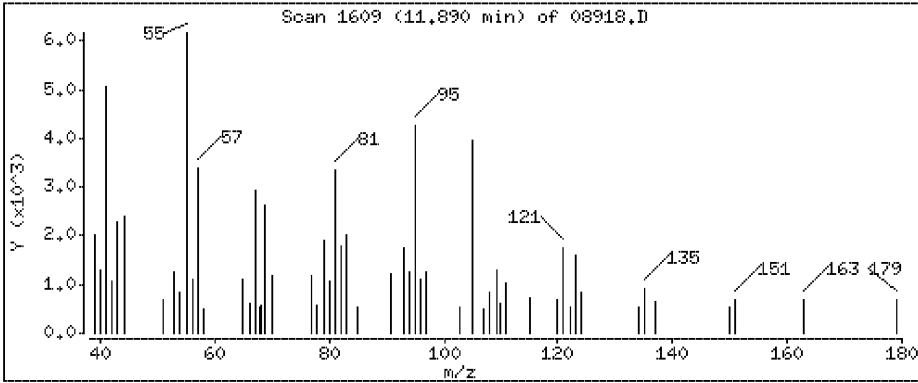
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

85 1,2,3-Trimethylbenzene

Concentration: 0.0715 ppbv



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Date : 30-MAR-2019 14:51

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Instrument: 10airI.i

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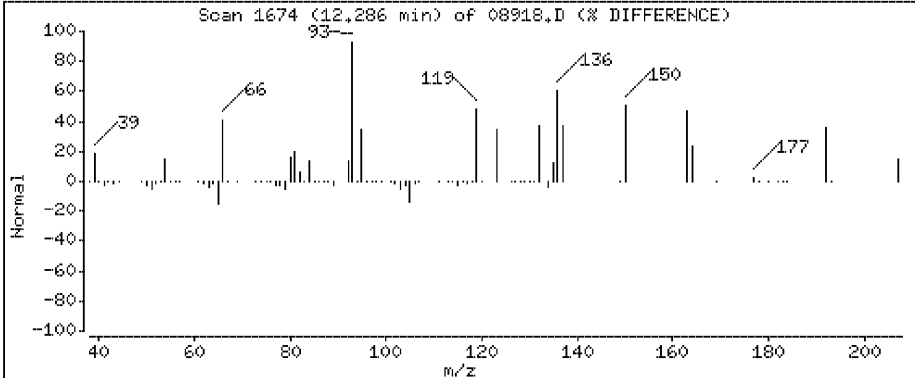
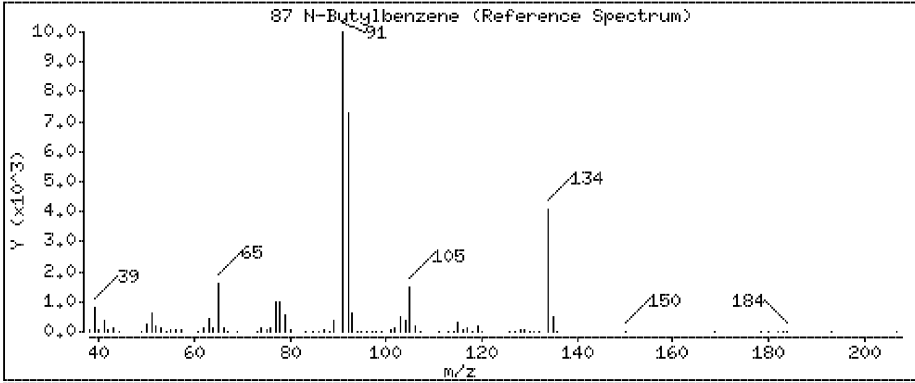
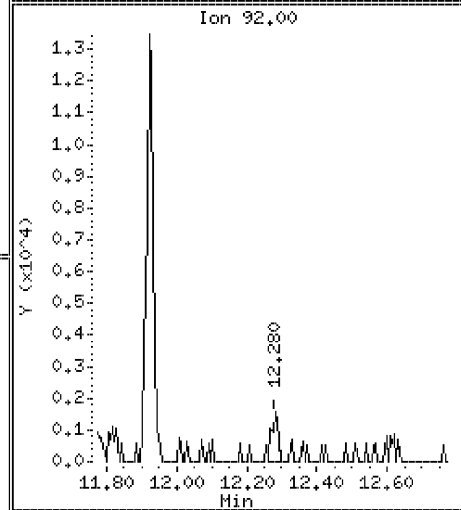
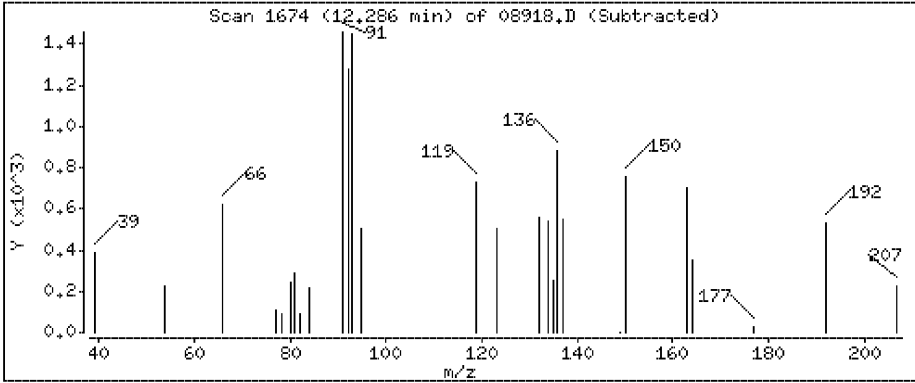
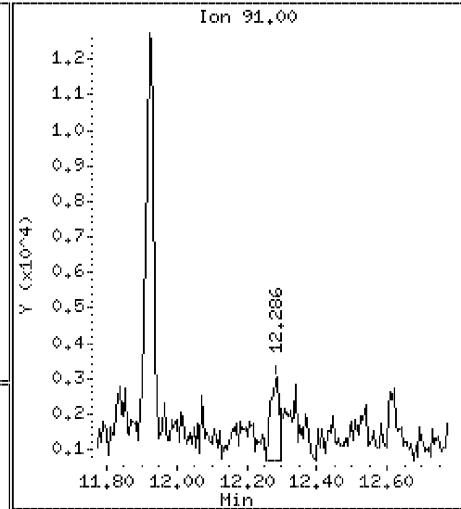
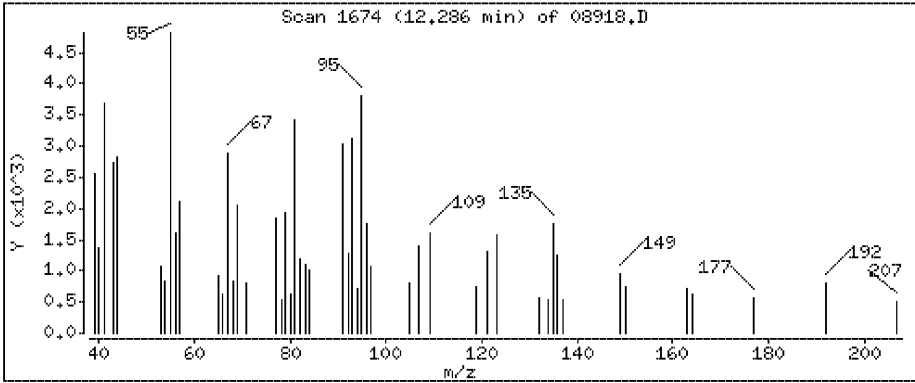
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

87 N-Butylbenzene

Concentration: 0.0389 ppbv



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Date : 30-MAR-2019 14:51

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Instrument: 10airI.i

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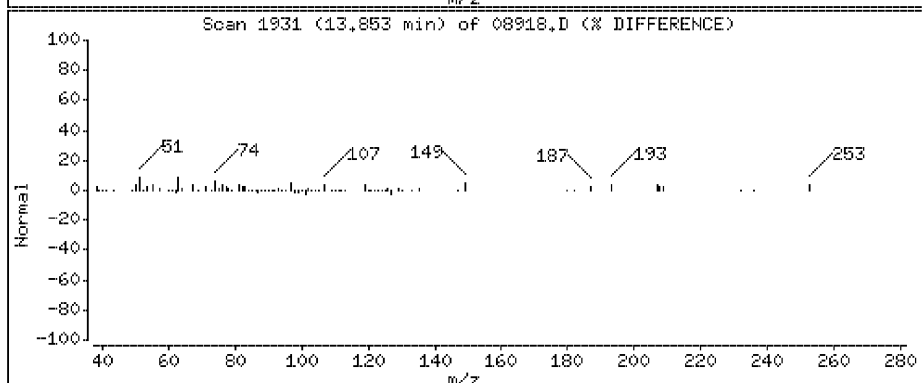
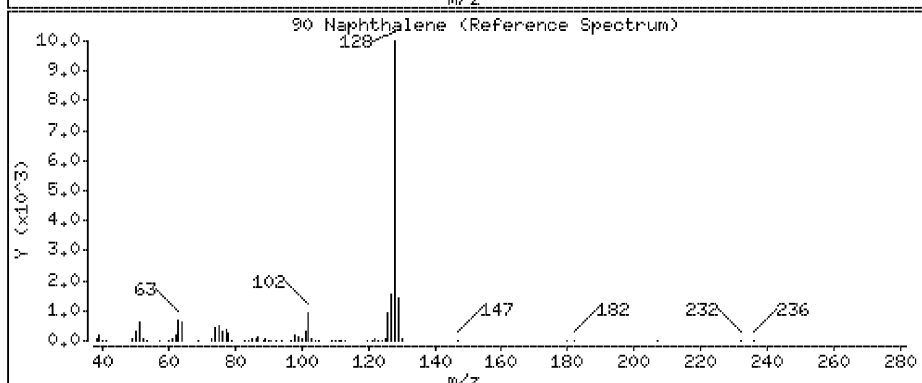
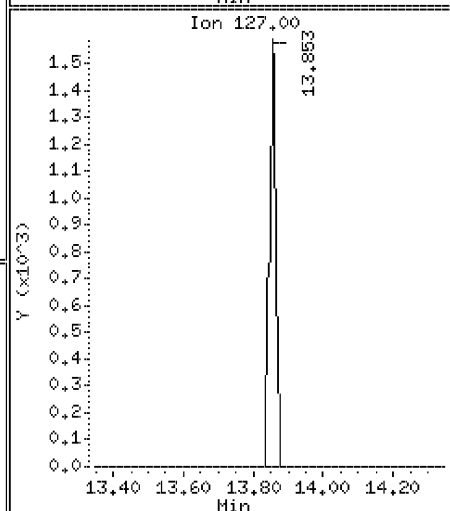
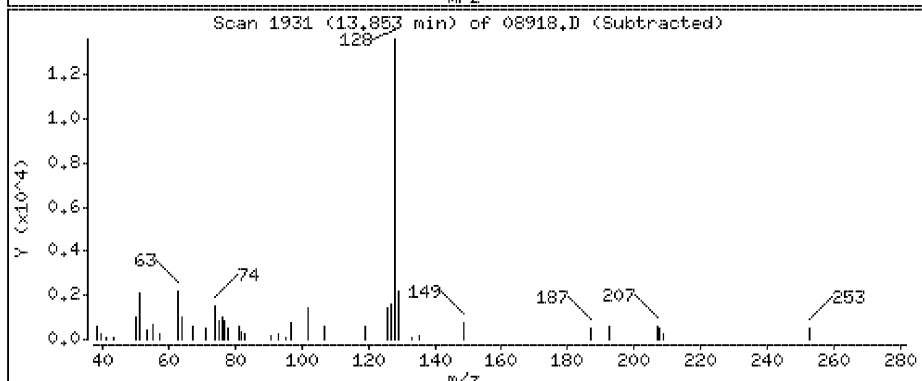
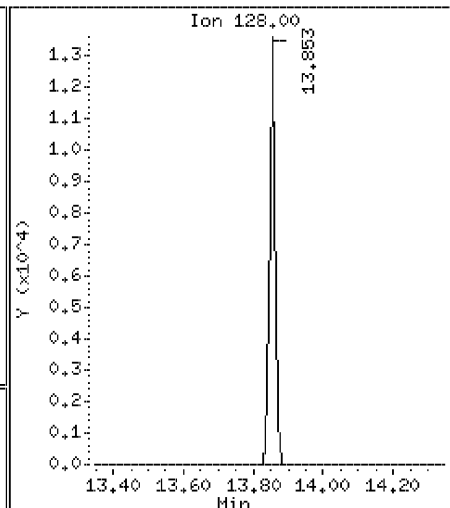
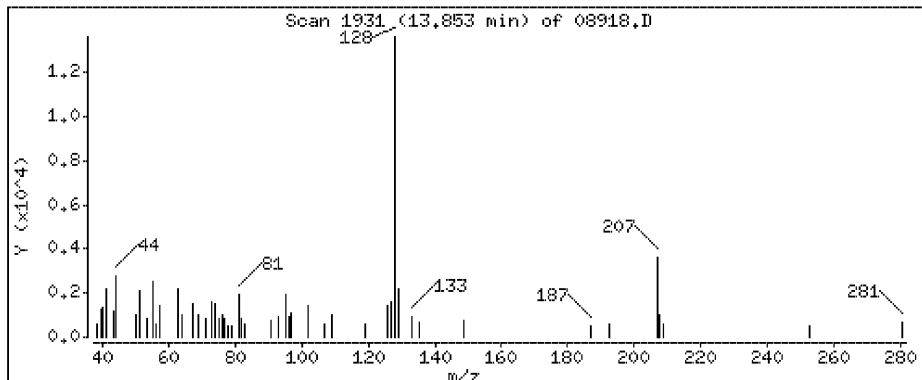
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

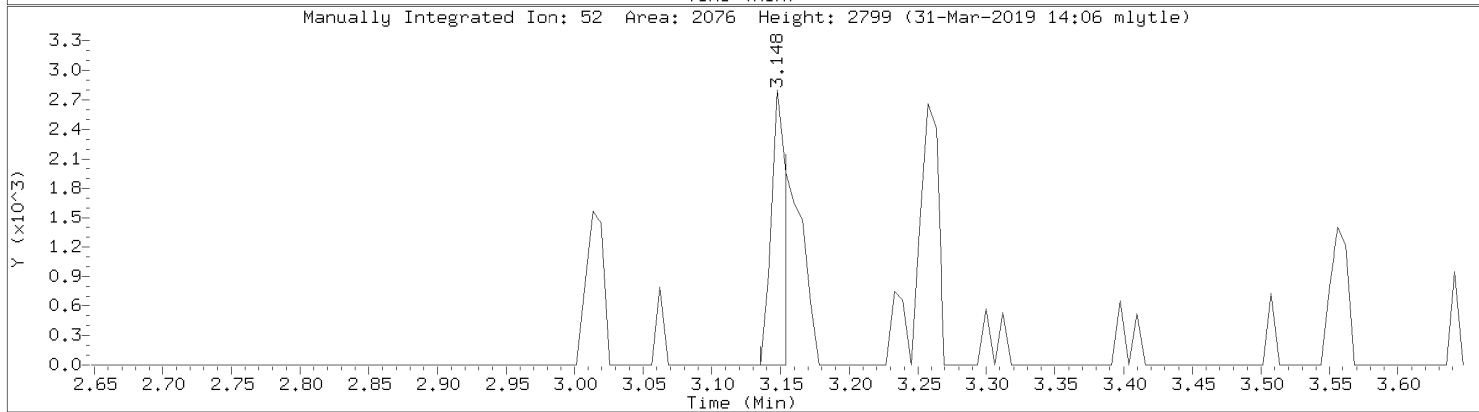
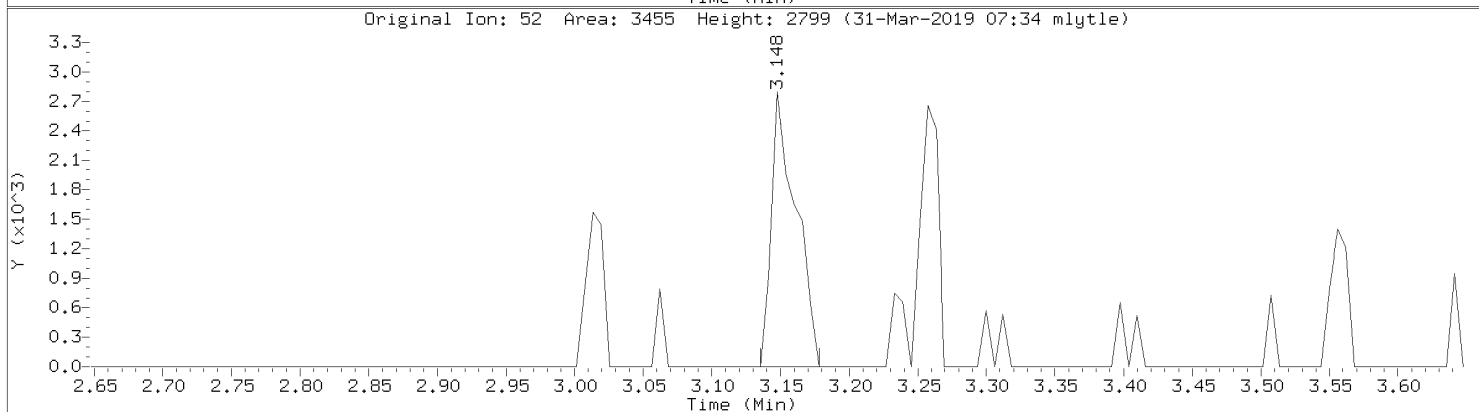
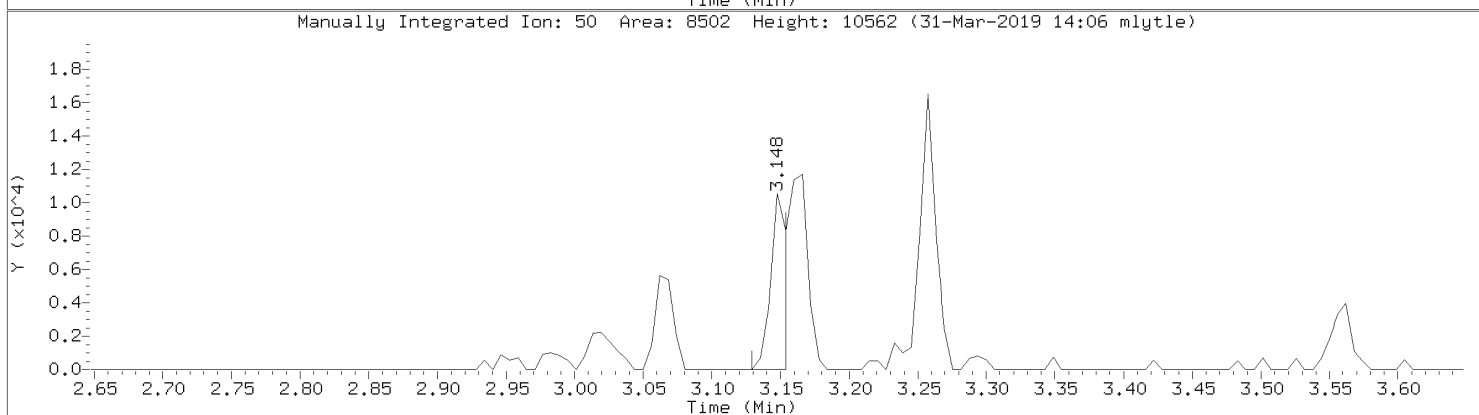
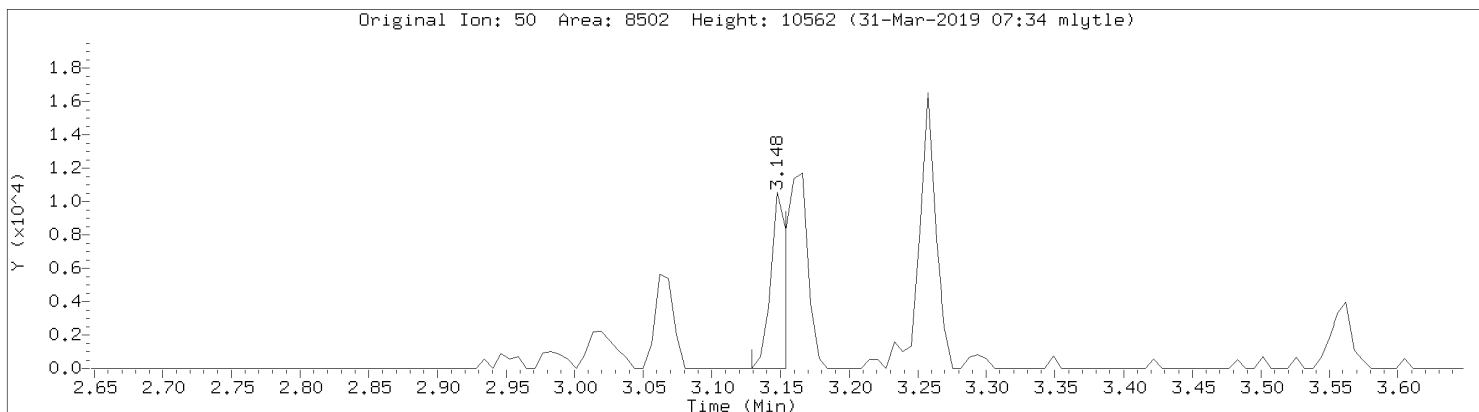
90 Naphthalene

Concentration: 0.208 ppbv



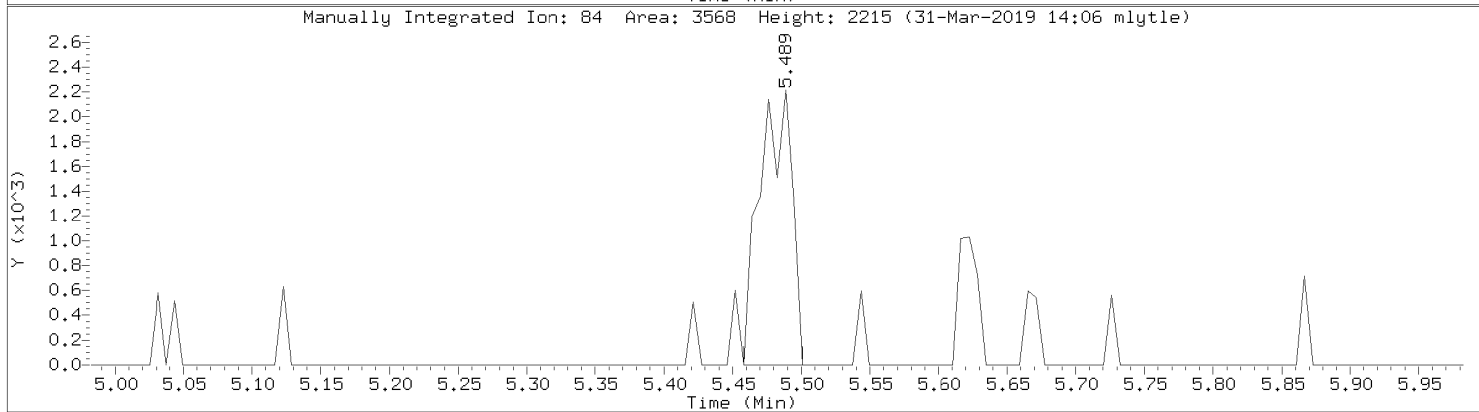
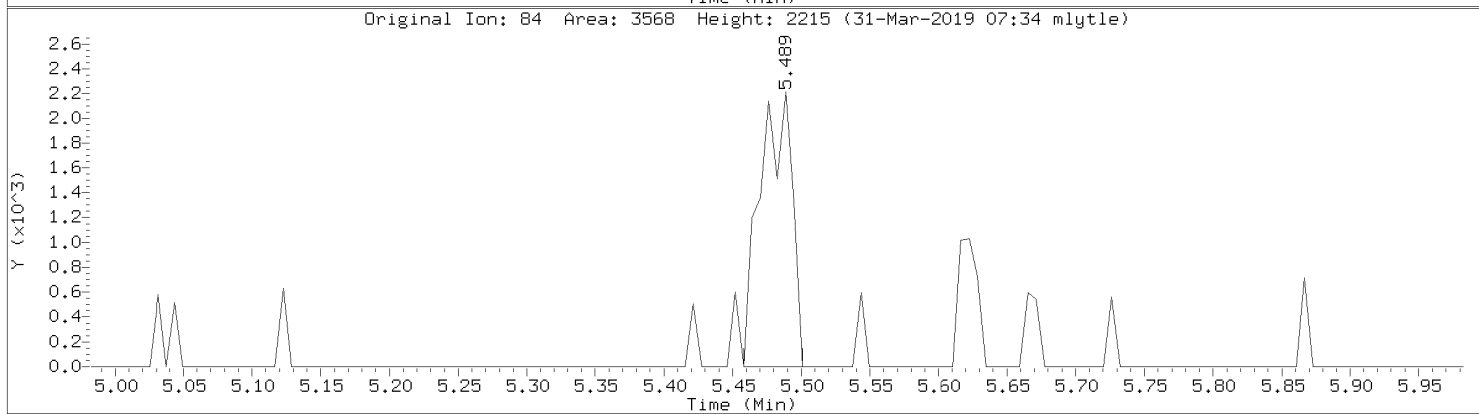
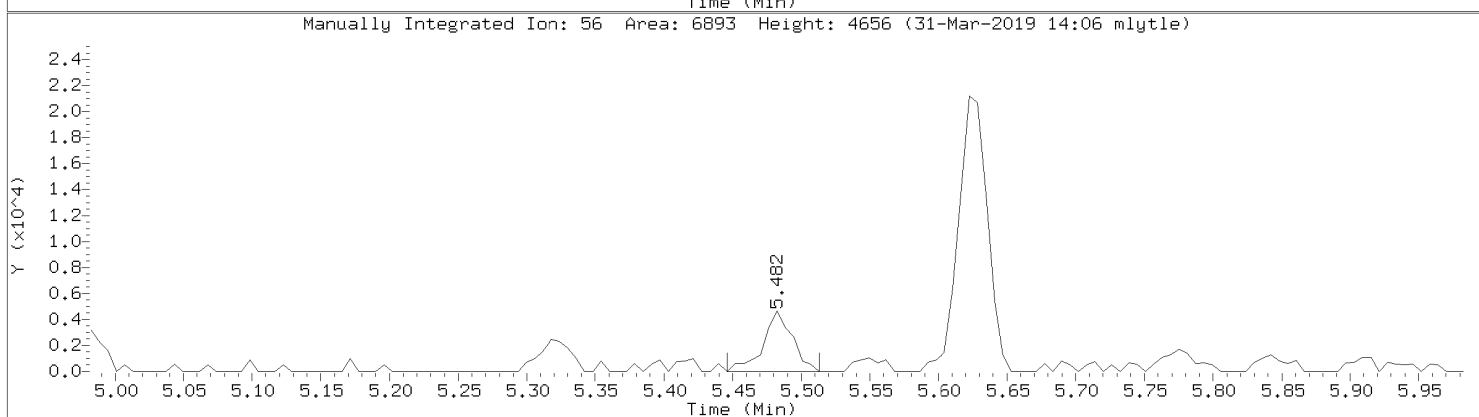
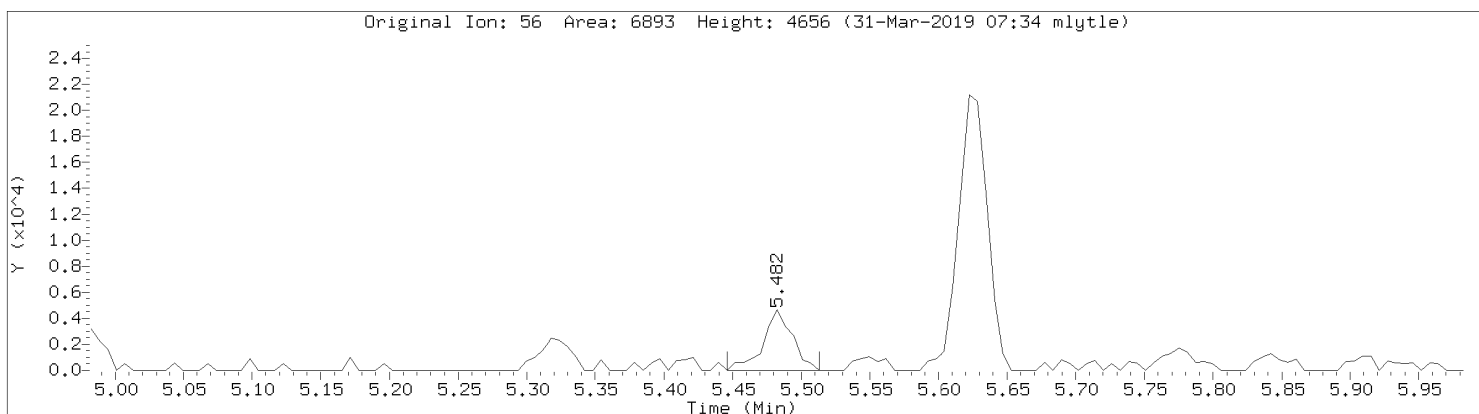
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Injection Date: 30-MAR-2019 14:51
Instrument: 10airI.i
Lab Sample ID: 10468767007

Compound: Chloromethane
CAS Number: 74-87-3

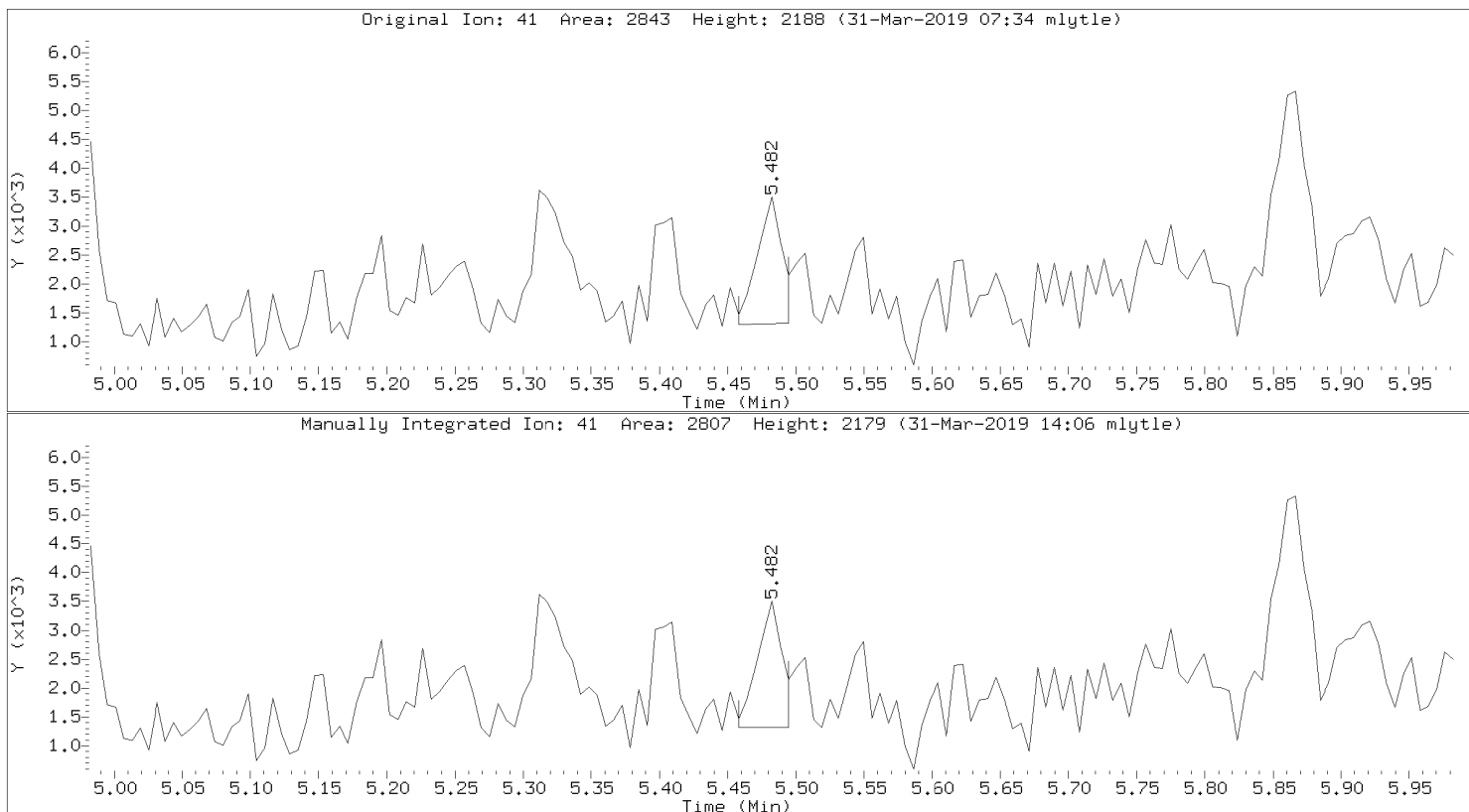


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Injection Date: 30-MAR-2019 14:51
Instrument: 10airI.i
Lab Sample ID: 10468767007

Compound: Cyclohexane
CAS Number: 110-82-7

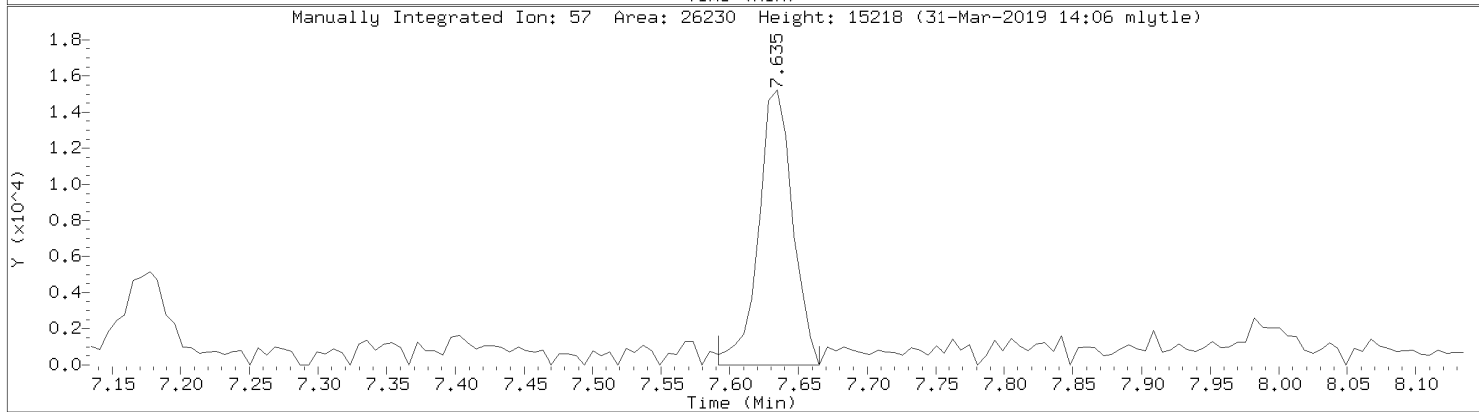
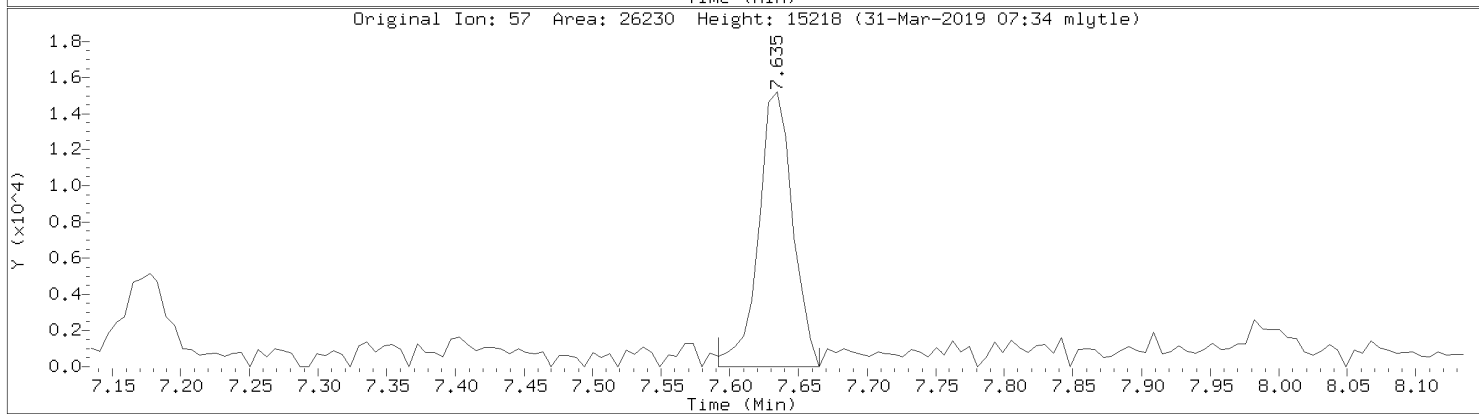
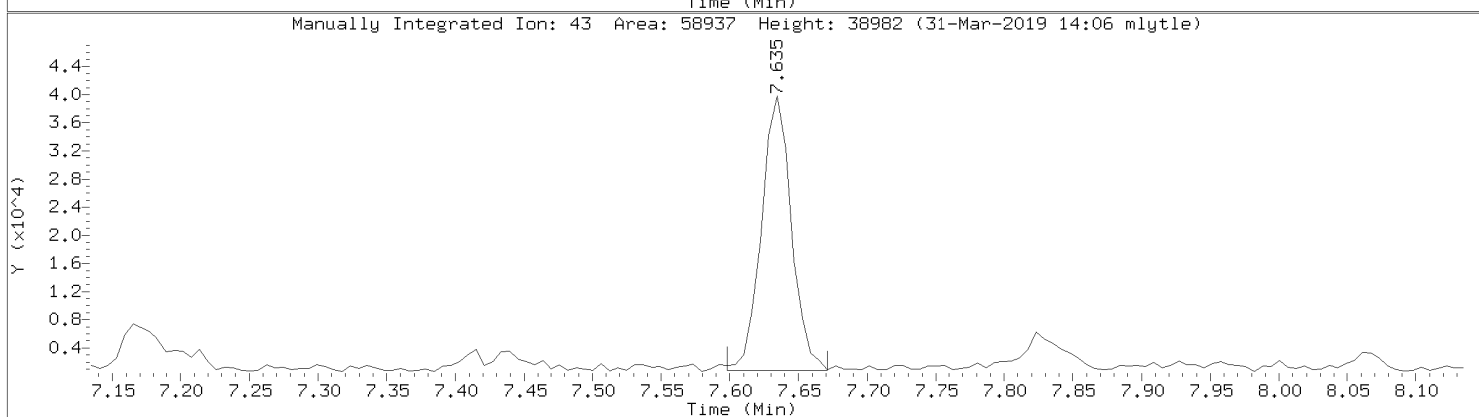
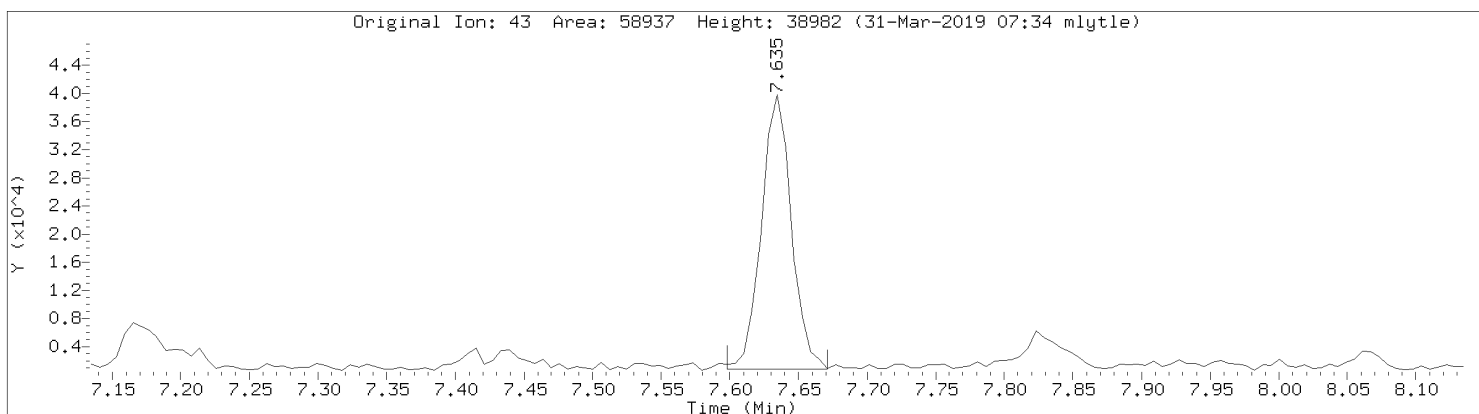


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Injection Date: 30-MAR-2019 14:51
Instrument: 10airI.i
Lab Sample ID: 10468767007

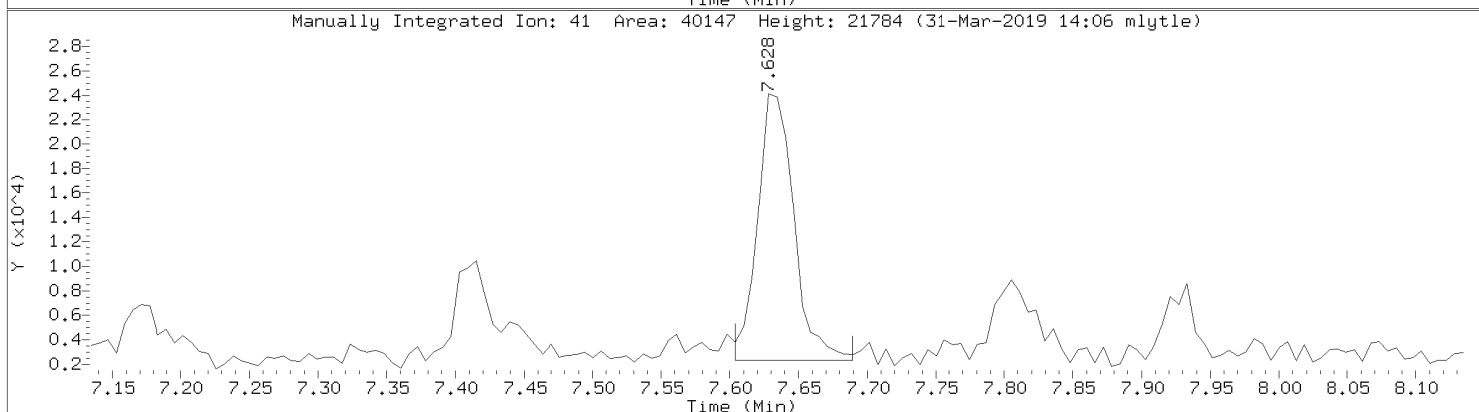
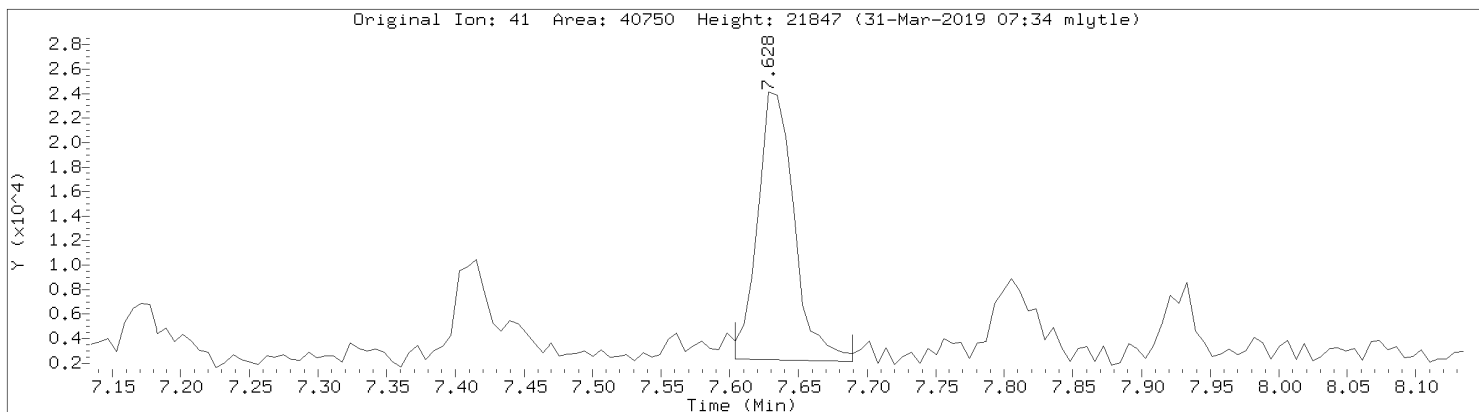


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08918.D
Injection Date: 30-MAR-2019 14:51
Instrument: 10airI.i
Lab Sample ID: 10468767007

Compound: n-Octane
CAS Number: 111-65-9

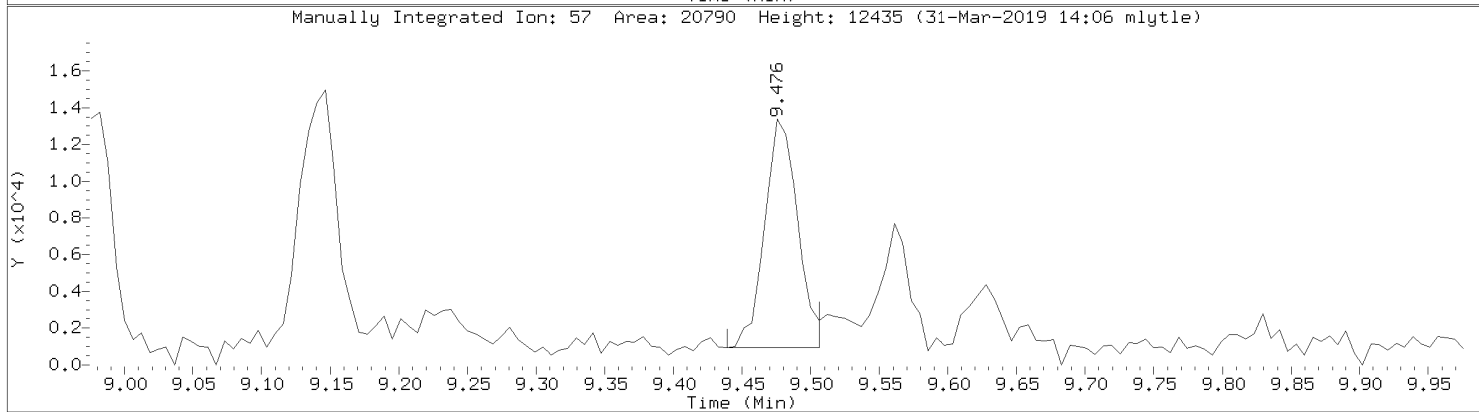
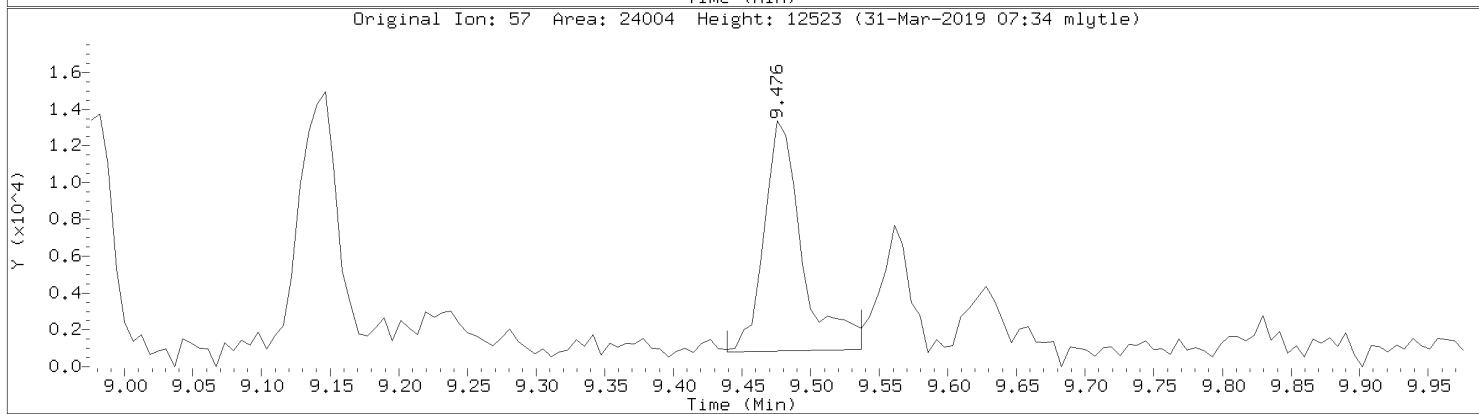
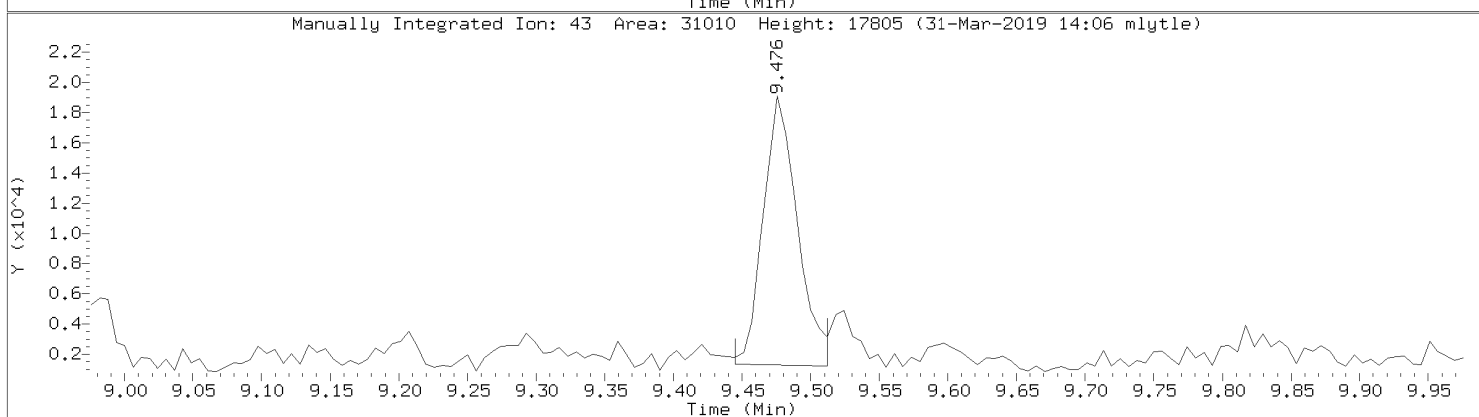
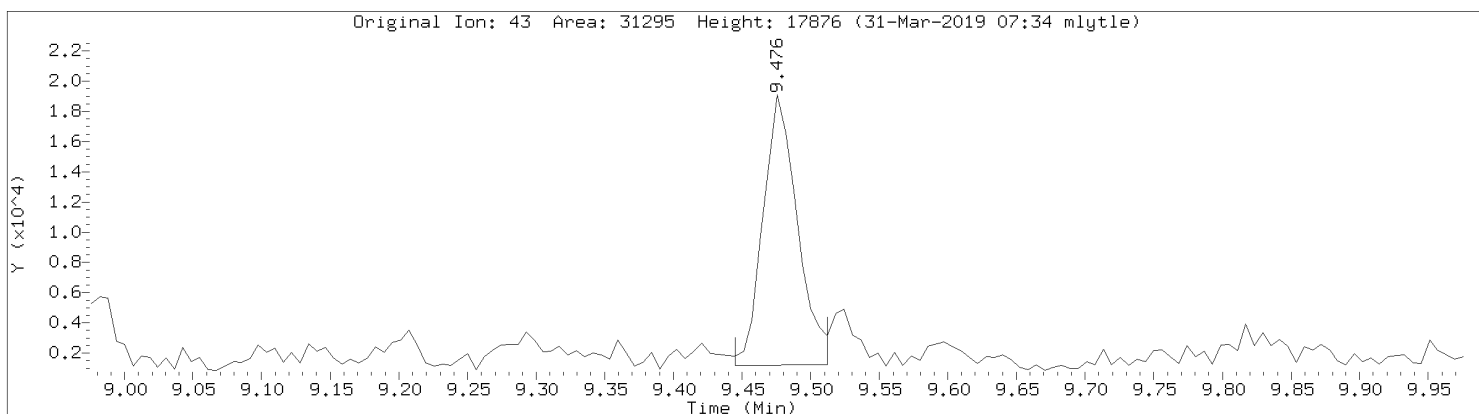


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08918.D
Injection Date: 30-MAR-2019 14:51
Instrument: 10airI.i
Lab Sample ID: 10468767007

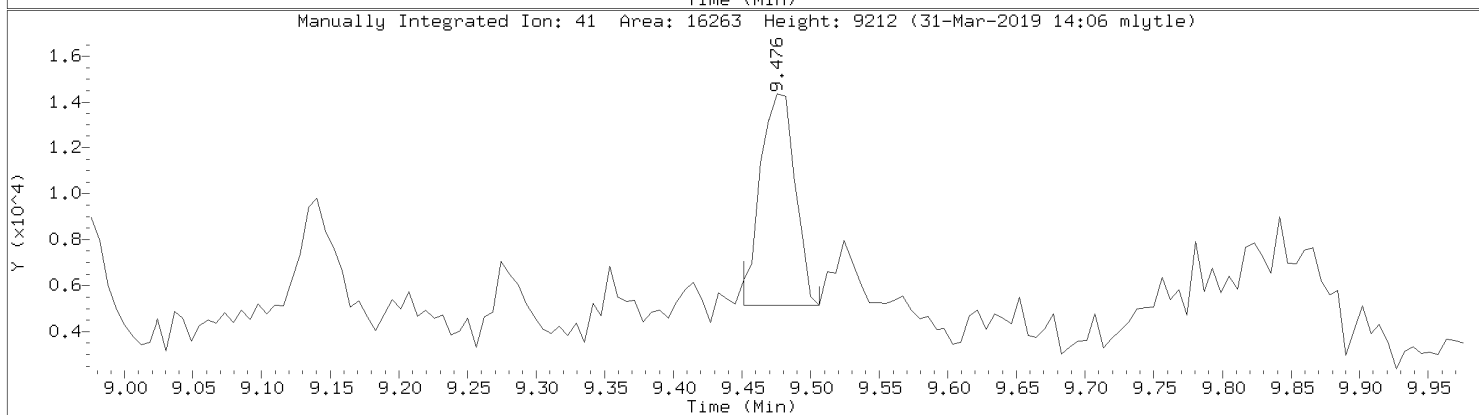
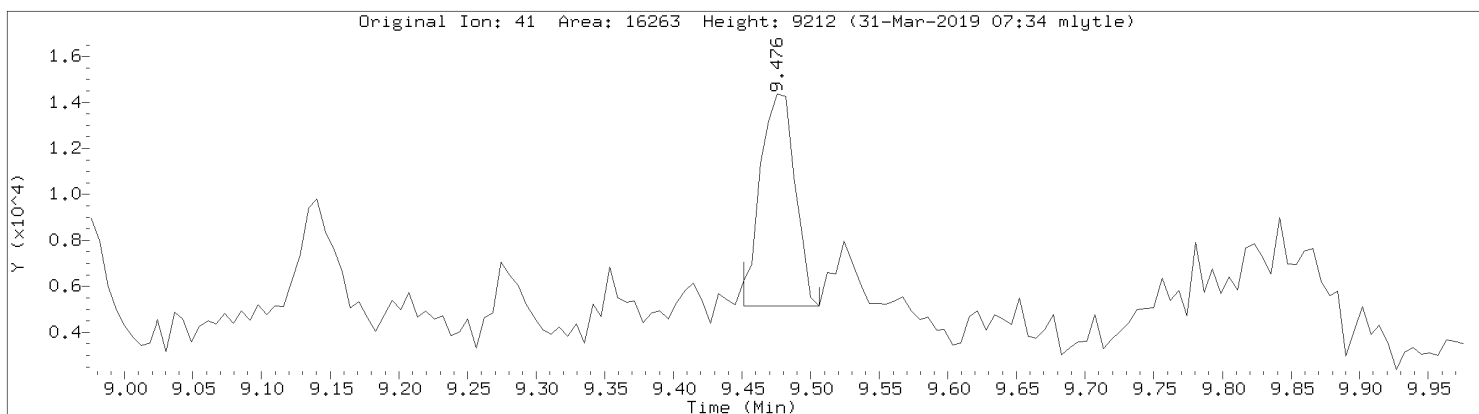


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08918.D
Injection Date: 30-MAR-2019 14:51
Instrument: 10airI.i
Lab Sample ID: 10468767007

Compound: n-Nonane
CAS Number: 111-84-2

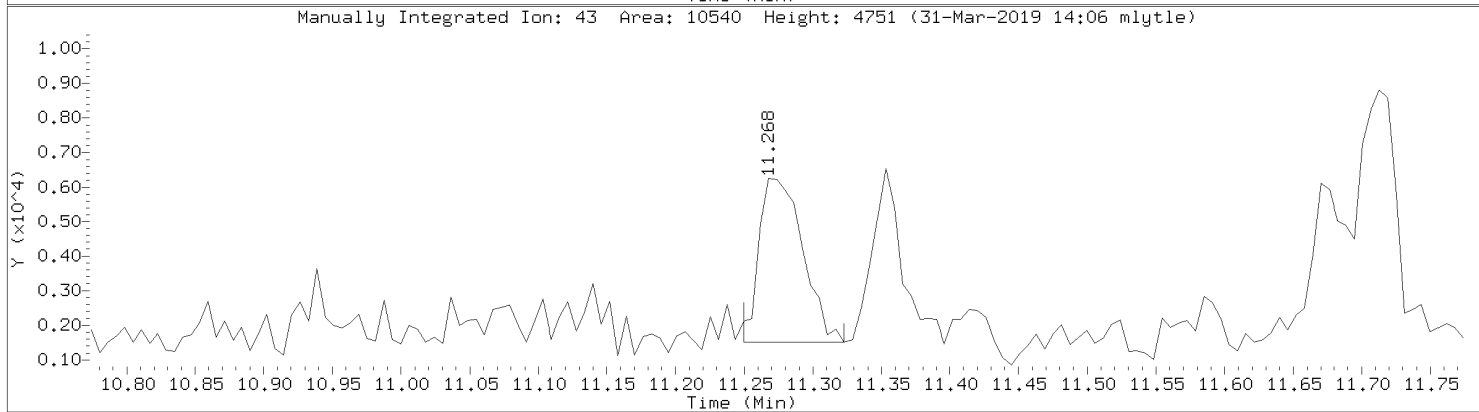
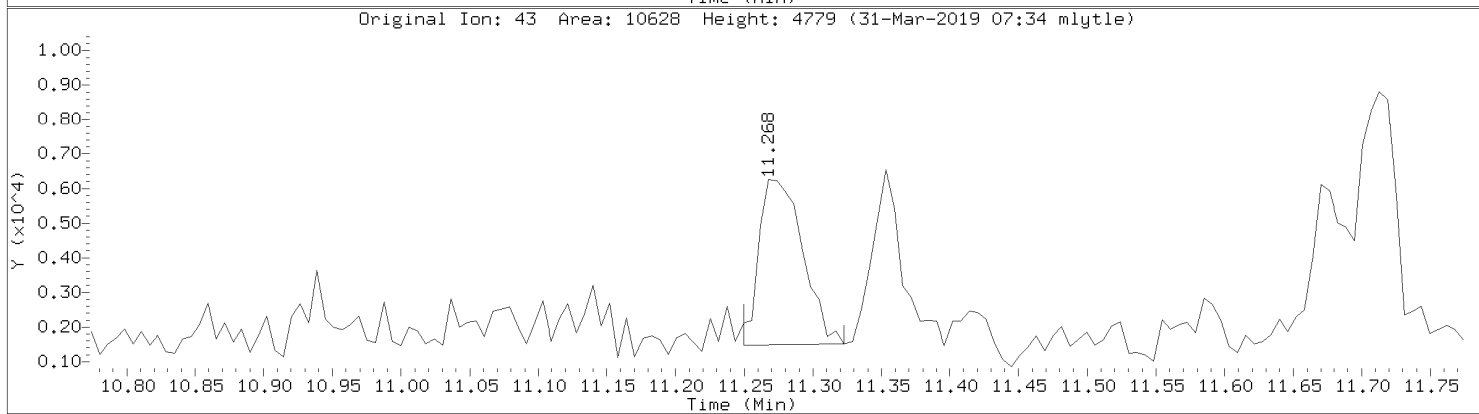
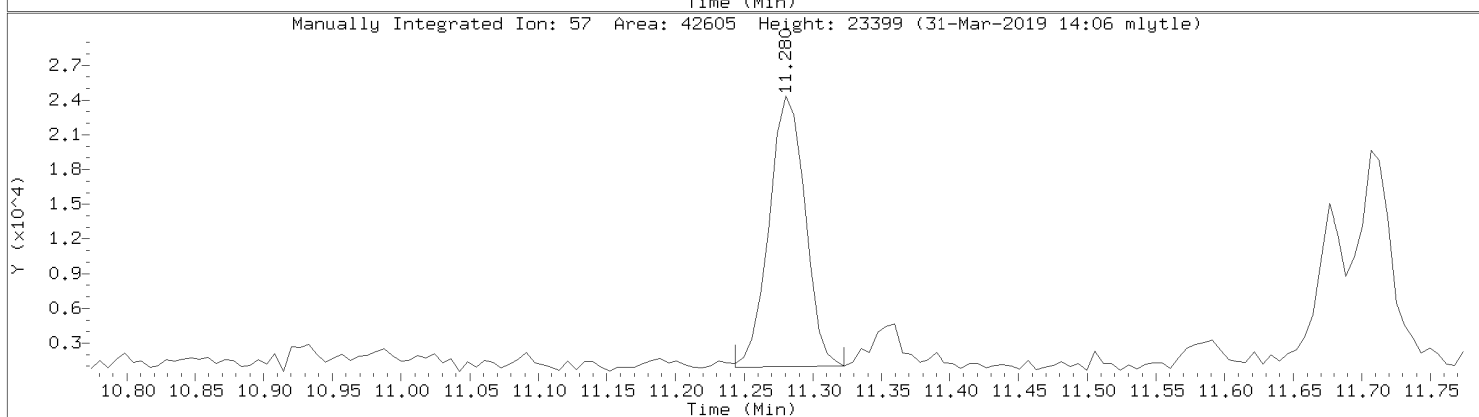
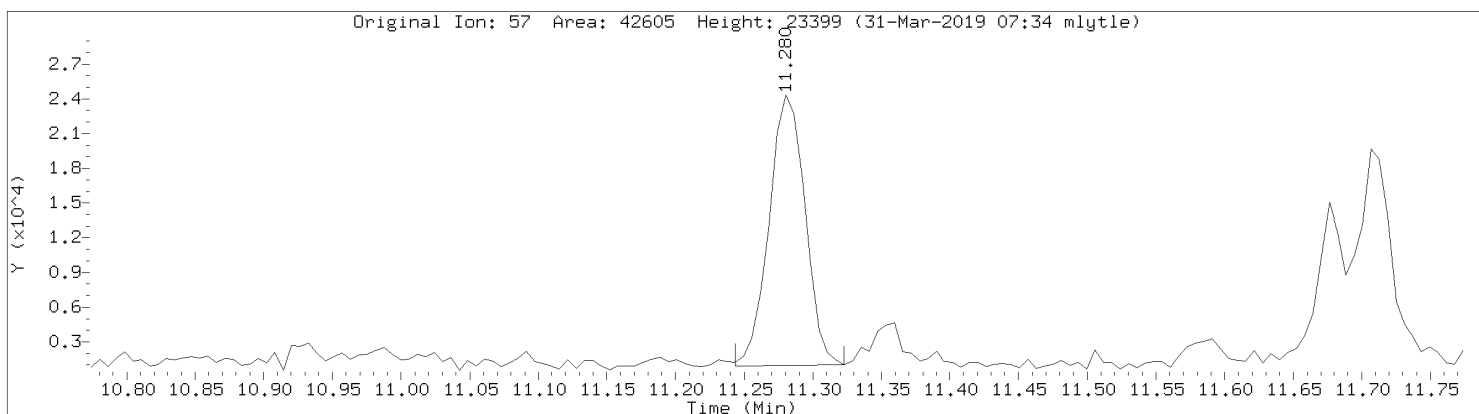


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Instrument: 10airI.i
Lab Sample ID: 10468767007

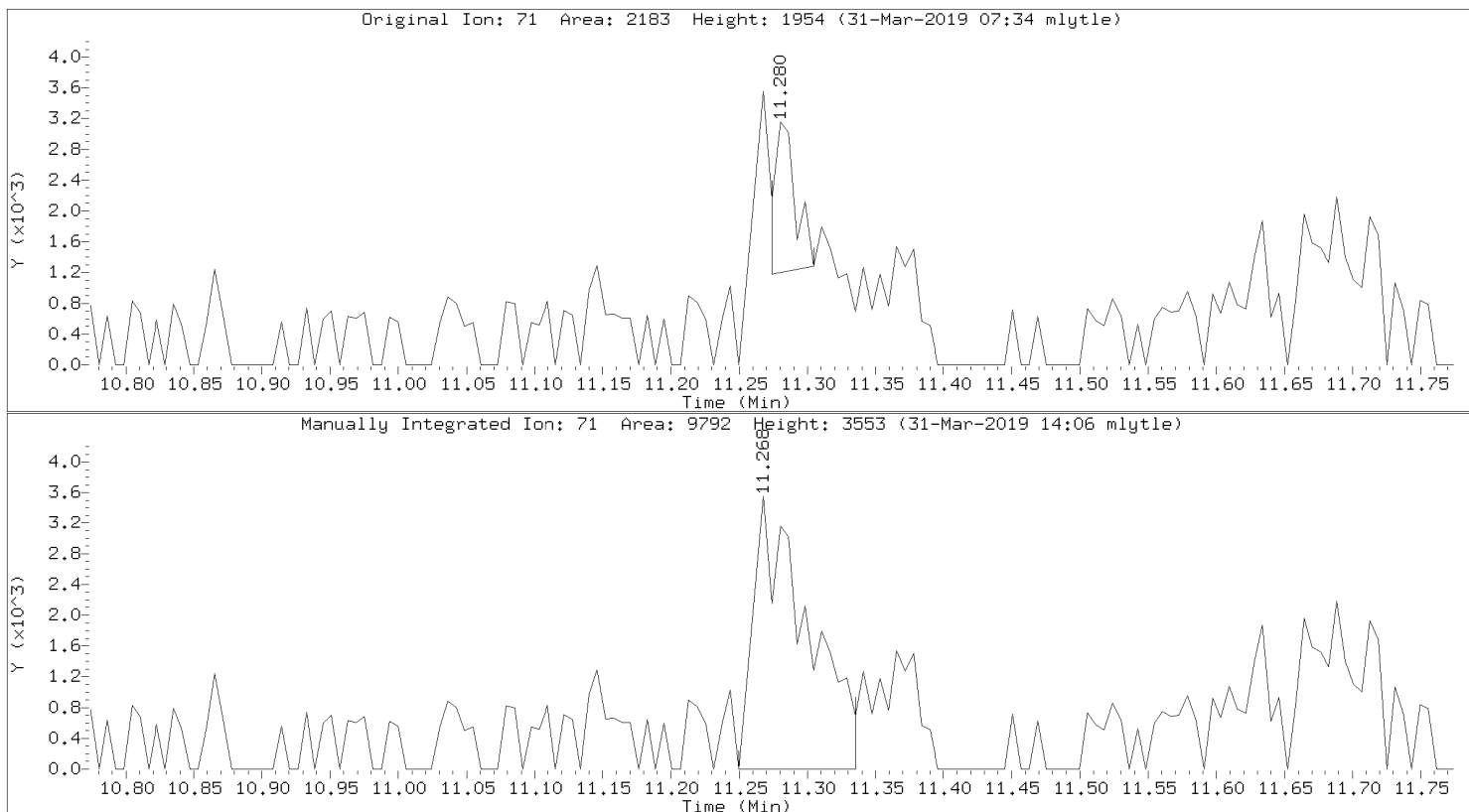


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08918.D
Injection Date: 30-MAR-2019 14:51
Instrument: 10airI.i
Lab Sample ID: 10468767007

Compound: n-Decane
CAS Number: 124-18-5



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08918.D
Injection Date: 30-MAR-2019 14:51
Instrument: 10airI.i
Lab Sample ID: 10468767007



Data File: \\192.168.10.12\chem\10airH.i\033119.b\09027.D
Report Date: 01-Apr-2019 10:20

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airH.i\033119.b\09027.D
Lab Smp Id: 10468767009
Inj Date : 31-MAR-2019 18:25
Operator : MJL Inst ID: 10airH.i
Smp Info :
Misc Info : 33312
Comment : Volatile Organic COMPOUNDS in Air
Method : \\192.168.10.12\chem\10airH.i\033119.b\TO15_084-19.m
Meth Date : 01-Apr-2019 10:18 mlytle Quant Type: ISTD
Cal Date : 25-MAR-2019 10:53 Cal File: 08412.D
Als bottle: 27
Dil Factor: 44.70000
Integrator: HP RTE Compound Sublist: 124TCB.sub
Target Version: 4.14
Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	44.700	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	CONCENTRATIONS					
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
	MASS					(ppbv)	(ppbv)	
26 Carbon Disulfide	76		3.919	3.916	(0.720)	64419	1.70631	76.3
37 Chloroform	83		4.675	4.671	(0.859)	133312	4.06926	182
* 45 1,4-Difluorobenzene	114		5.440	5.433	(1.000)	346965	10.0000	
57 Toluene	91		6.945	6.938	(1.277)	28207	0.58585	26.2
* 64 Chlorobenzene - d5	117		8.430	8.427	(1.000)	291386	10.0000	
76 1,3,5-Trimethylbenzene	105		10.694	10.687	(1.268)	4204	0.07770	3.47
79 1,2,4-Trimethylbenzene	105		11.189	11.179	(1.327)	8657	0.15682	7.01

Data File: \\192.168.10.12\chem\10airH.i\033119.b\09027.D
Report Date: 01-Apr-2019 10:20

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airH.i
Lab File ID: 09027.D
Lab Smp Id: 10468767009
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airH.i\033119.b\TO15_084-19.m
Misc Info: 33312

Calibration Date: 31-MAR-2019
Calibration Time: 07:42

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	451734	271040	632428	346965	-23.19
64 Chlorobenzene - d	397119	238271	555967	291386	-26.63

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.43	5.10	5.76	5.44	0.12
64 Chlorobenzene - d	8.43	8.10	8.76	8.43	0.04

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

Data File: \\192.168.10.12\chem\10airH.i\033119.b\09027.D

Date : 31-MAR-2019 18:25

Client ID:

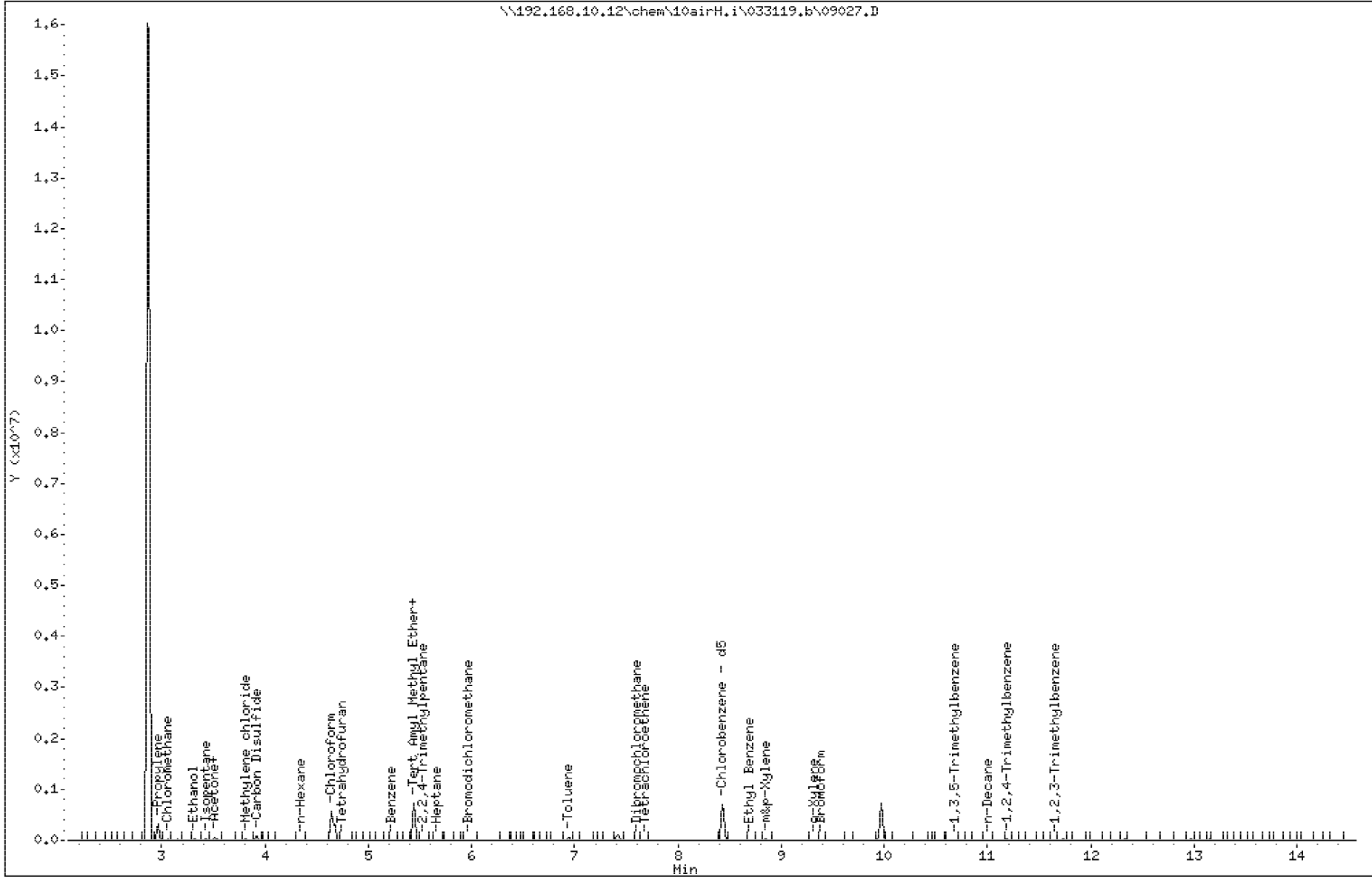
Sample Info:

Column phase: ZB-5MSplus SN338857

Instrument: 10airH.i

Operator: MJL

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09027.D

Date : 31-MAR-2019 18:25

Client ID:

Instrument: 10airH.i

Sample Info:

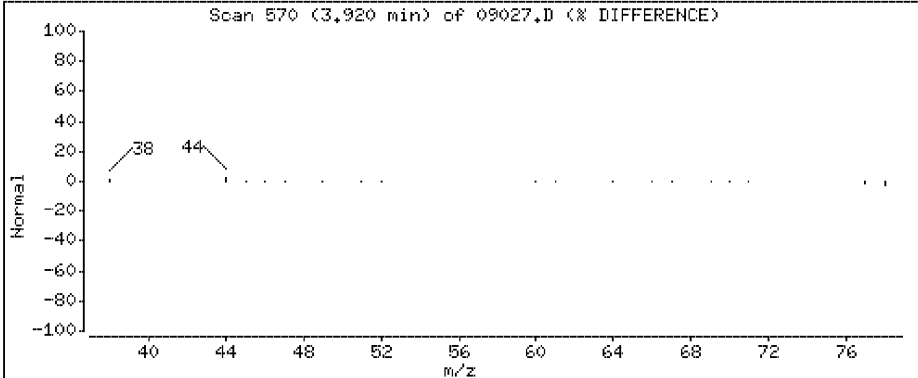
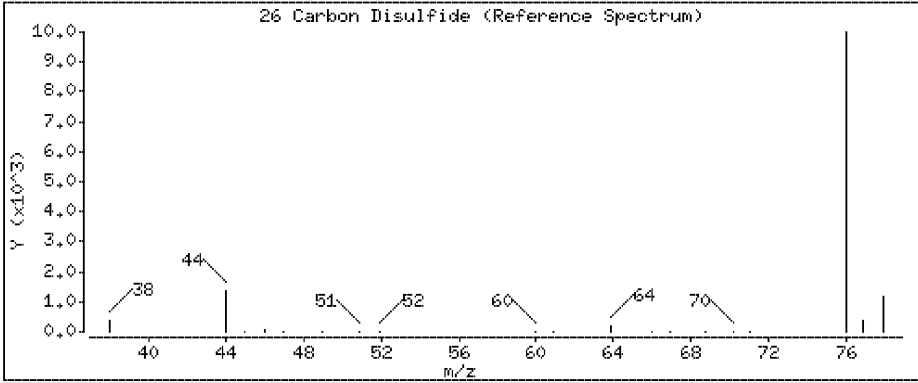
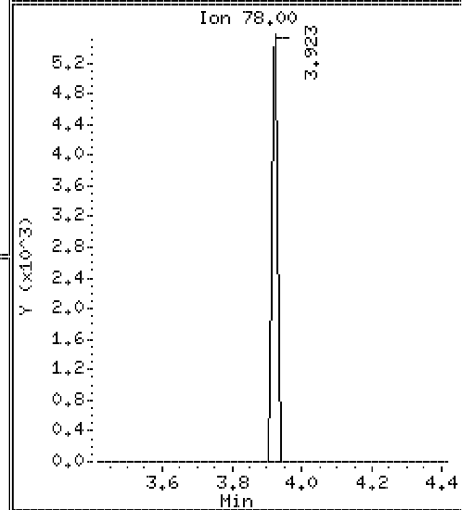
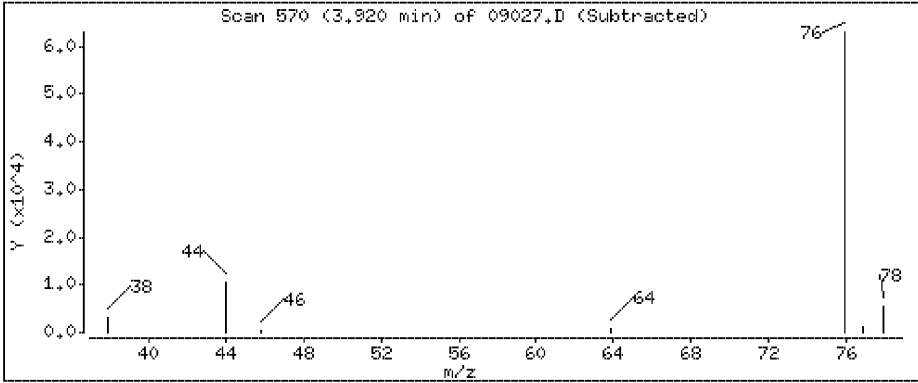
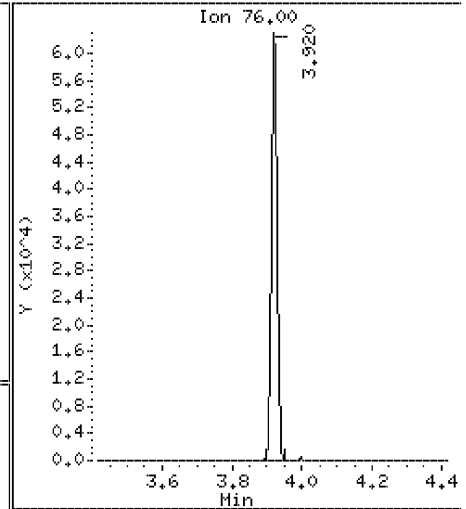
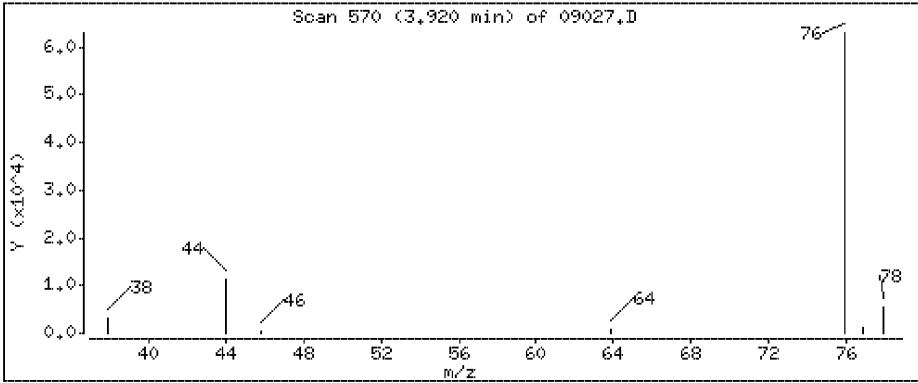
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0.32

26 Carbon Disulfide

Concentration: 76.3 ppbv



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09027.D

Date : 31-MAR-2019 18:25

Client ID:

Instrument: 10airH.i

Sample Info:

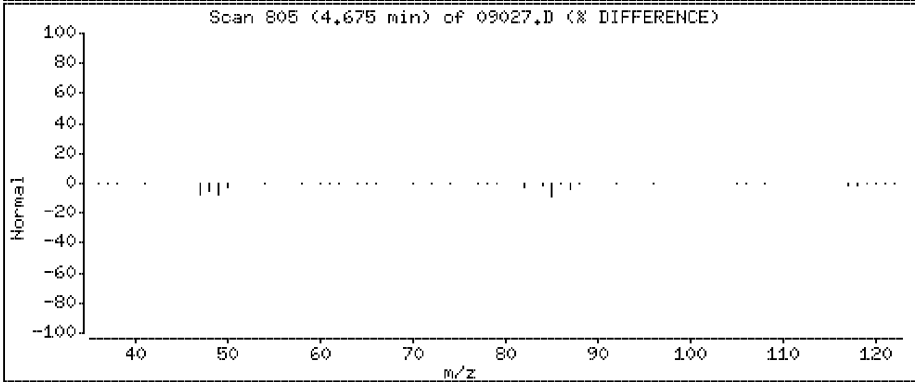
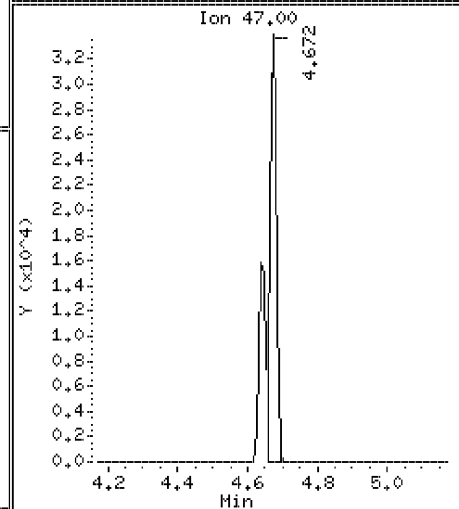
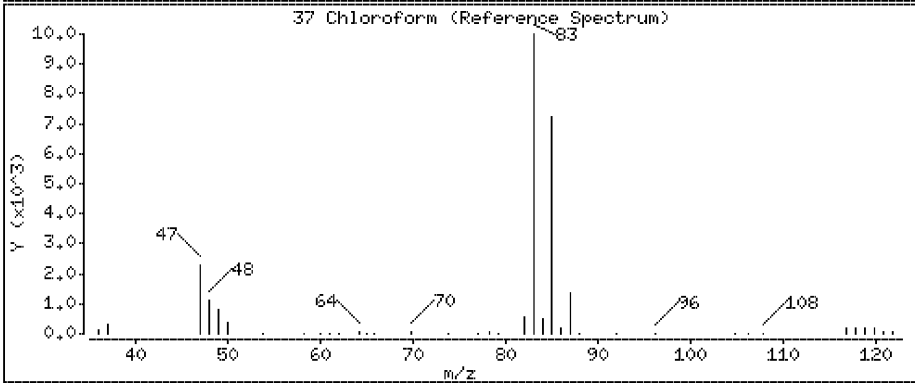
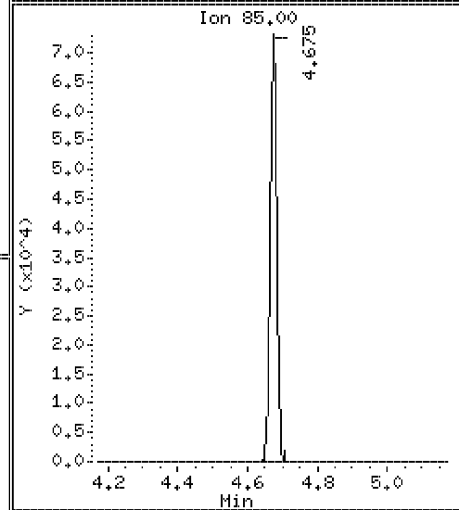
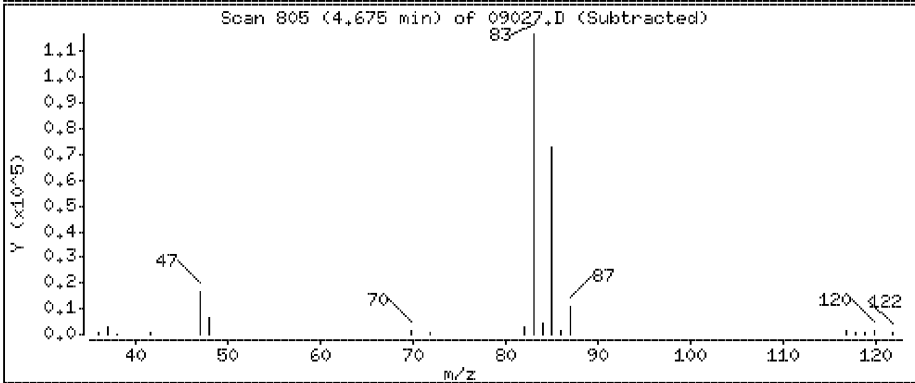
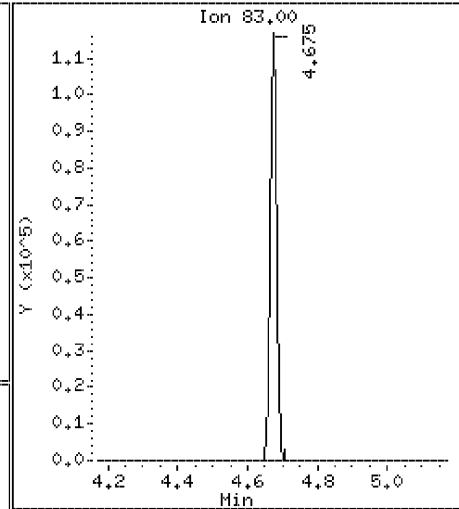
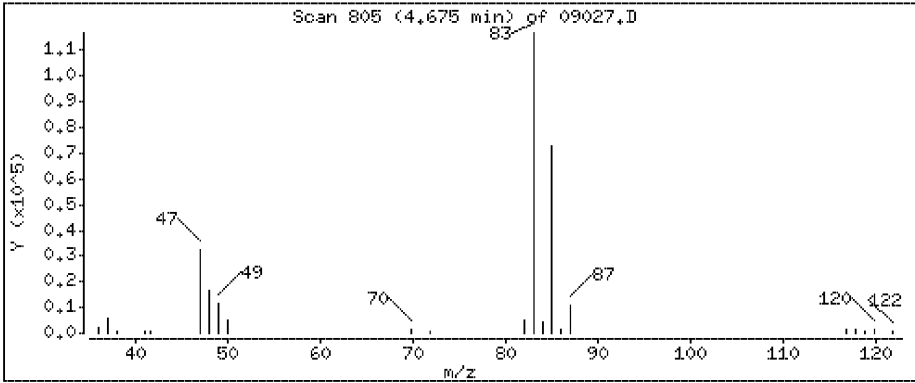
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0.32

37 Chloroform

Concentration: 182 ppbv



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09027.D

Date : 31-MAR-2019 18:25

Client ID:

Instrument: 10airH.i

Sample Info:

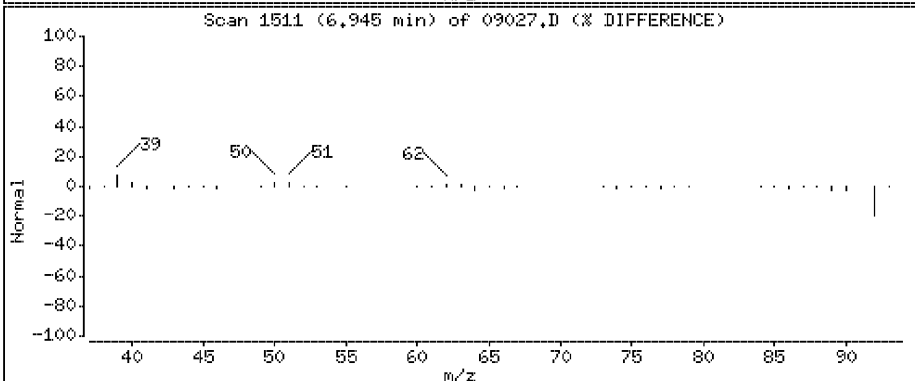
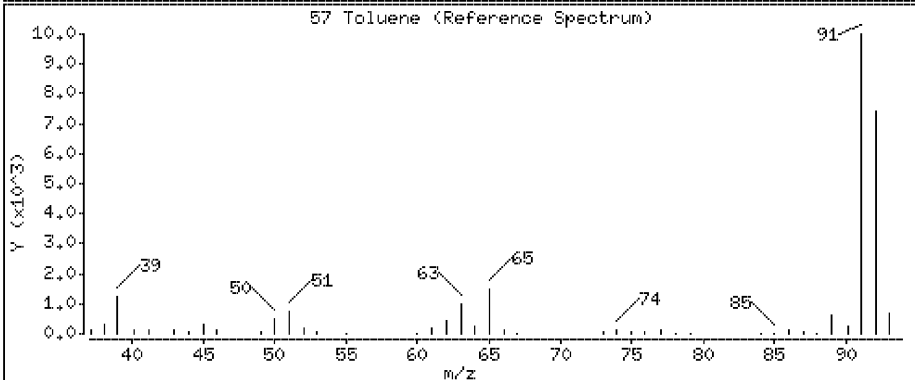
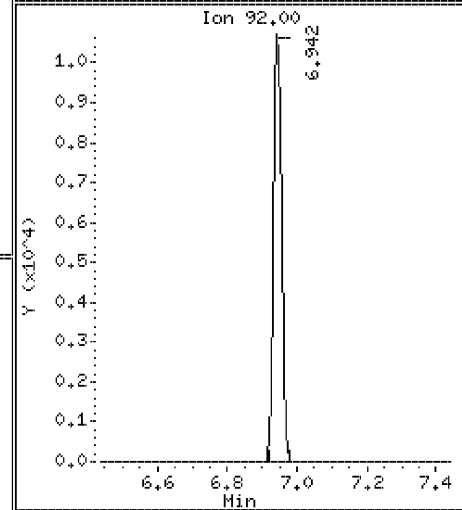
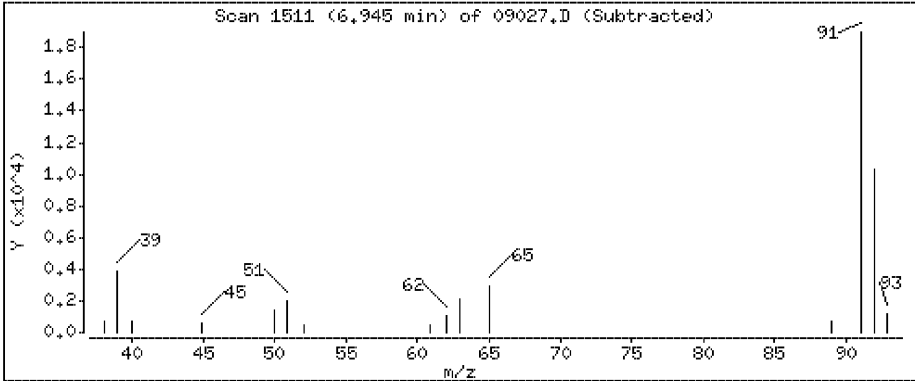
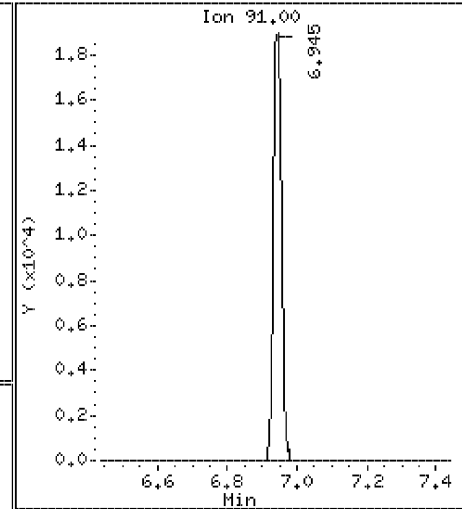
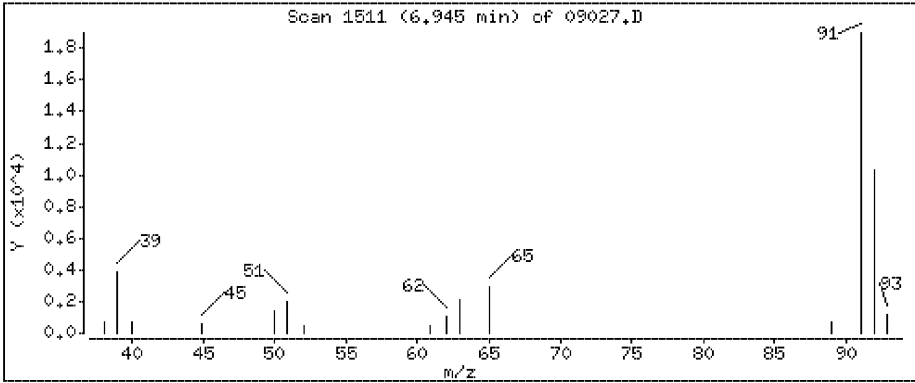
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0,32

57 Toluene

Concentration: 26,2 ppbv



Data File: \\192.168.10.12\chem\10airH,i\033119,b\09027.D

Date : 31-MAR-2019 18:25

Client ID:

Instrument: 10airH,i

Sample Info:

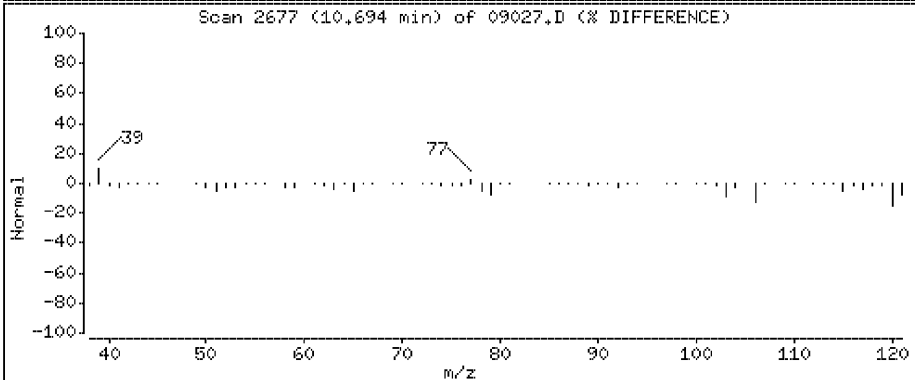
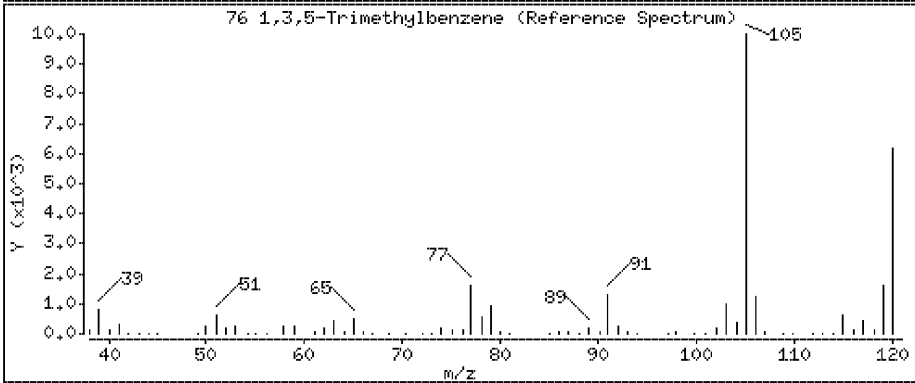
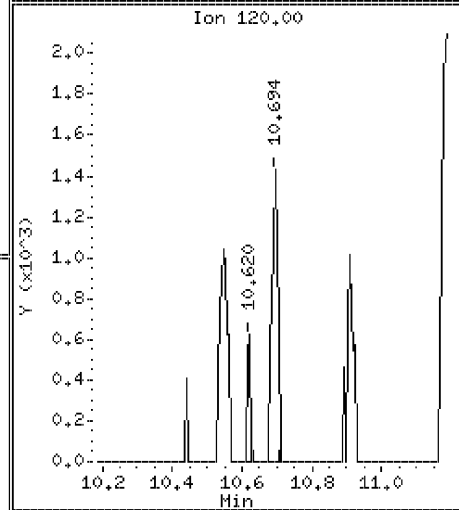
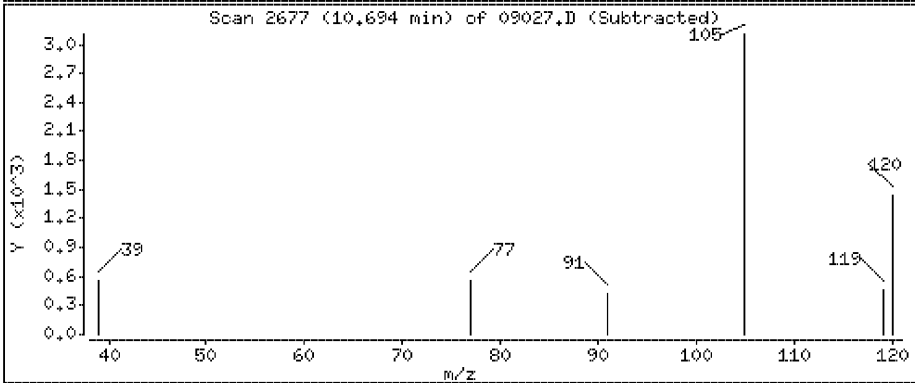
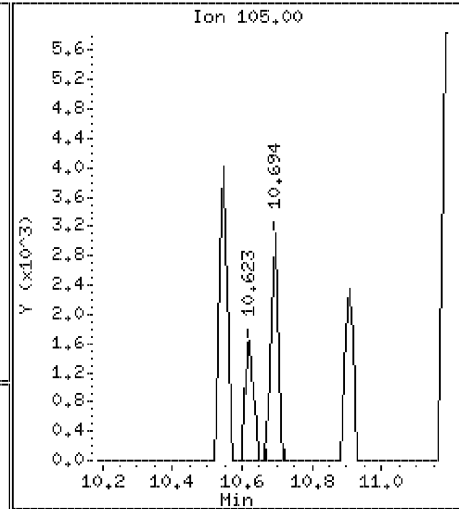
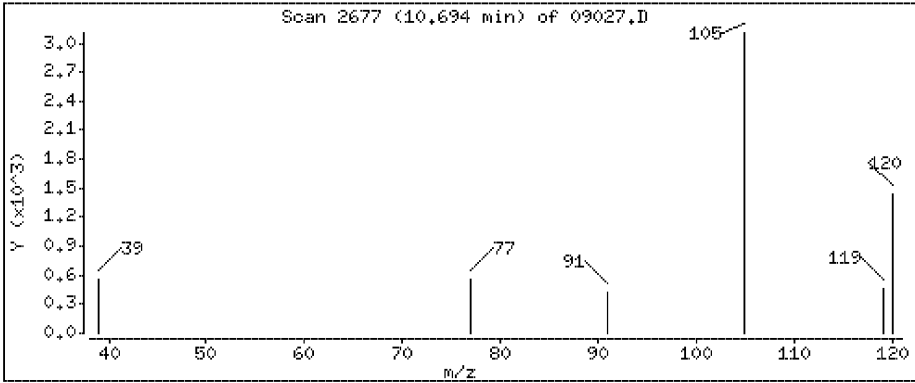
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0,32

76 1,3,5-Trimethylbenzene

Concentration: 3.47 ppbv



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09027.D

Date : 31-MAR-2019 18:25

Client ID:

Instrument: 10airH.i

Sample Info:

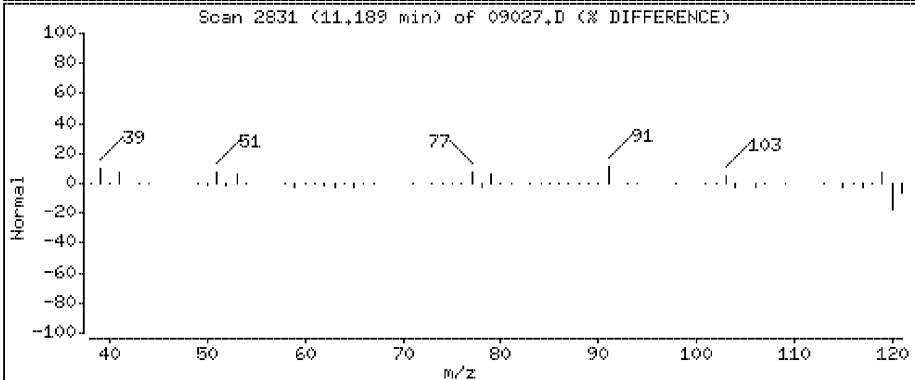
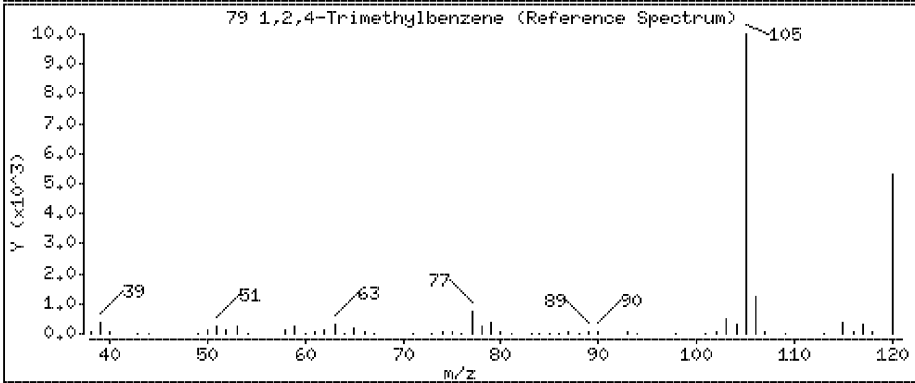
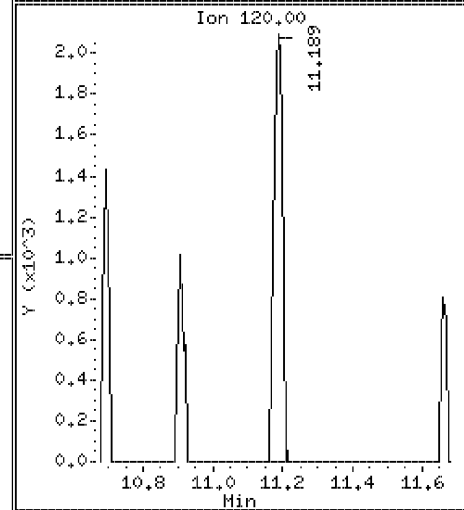
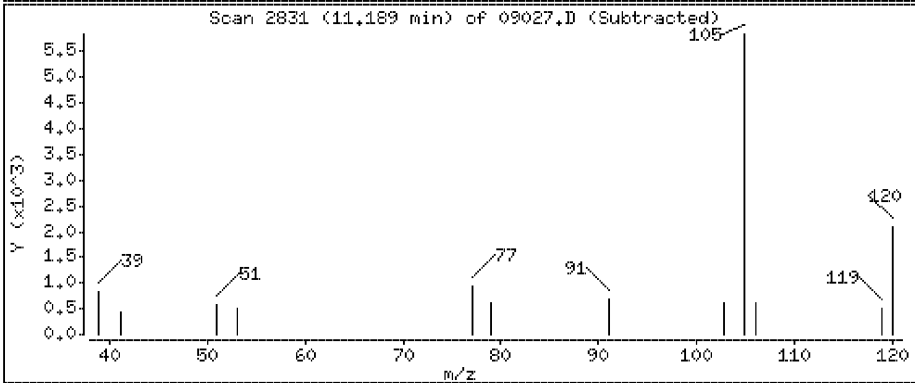
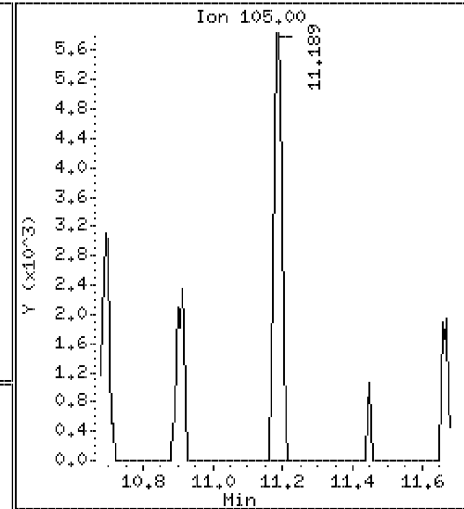
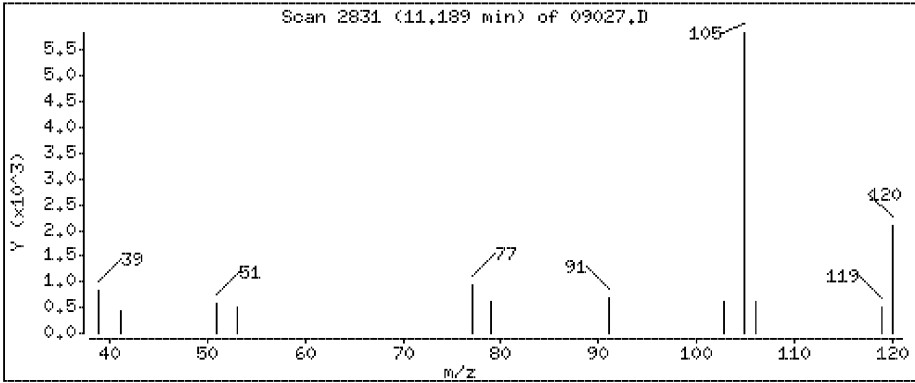
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0.32

79 1,2,4-Trimethylbenzene

Concentration: 7.01 ppbv



Data File: \\192.168.10.12\chem\10airH.i\033119.b\09027.D
Injection Date: 31-MAR-2019 18:25
Instrument: 10airH.i
Lab Sample ID: 10468767009
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\033019.b\08919.D
 Lab Smp Id: 10468767009
 Inj Date : 30-MAR-2019 15:19
 Operator : MJL Inst ID: 10airI.i
 Smp Info :
 Misc Info : 33312
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Meth Date : 31-Mar-2019 13:48 mlytle Quant Type: ISTD
 Cal Date : 30-MAR-2019 10:33 Cal File: 08909.D
 Als bottle: 19
 Dil Factor: 1.49000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.490	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ppbv)	FINAL (ppbv)	
1 1,1-Difluoroethane	65		3.019	3.013	(0.536)	23133	0.89141	1.33(Q)	
2 Chlorodifluoromethane	67		Compound Not Detected.						(D)
3 Propylene	41		Compound Not Detected.						(D)
4 Dichlorodifluoromethane	85		3.068	3.068	(0.545)	31467	0.27165	0.405	
5 Dichlorotetrafluoroethane	85		Compound Not Detected.						(D)
6 Chloromethane	50		3.147	3.147	(0.559)	83470	1.67006	2.49	
7 Vinyl chloride	62		3.220	3.220	(0.572)	2593	0.08013	0.119(Q)	
8 1,3-Butadiene	54		Compound Not Detected.						(D)
9 Bromomethane	94		Compound Not Detected.						(D)
10 Chloroethane	64		Compound Not Detected.						
11 Ethanol	45		3.434	3.440	(0.610)	522692	28.0455	41.8	
12 Vinyl Bromide	106		Compound Not Detected.						
13 Isopentane	43		3.555	3.556	(0.632)	163357	3.59664	5.36	
14 Freon 123	83		Compound Not Detected.						
15 Acrolein	56		Compound Not Detected.						(D)
16 Trichlorofluoromethane	101		3.635	3.635	(0.646)	14014	0.14184	0.211	
17 Acetone	43		3.647	3.653	(0.648)	1193308	11.3455	16.9	
18 Isopropyl Alcohol	45		3.659	3.659	(0.650)	534030	7.06157	10.5(Q)	
19 Tert Butyl Alcohol (TBA)	59		Compound Not Detected.						(D)
20 Acrylonitrile	53		Compound Not Detected.						(D)
21 1,1-Dichloroethene	61		Compound Not Detected.						(D)
22 Methyl Acetate	43		Compound Not Detected.						
23 Freon 113	101		Compound Not Detected.						(D)

Compounds	QUANT MASS	SIG						CONCENTRATIONS			
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)			
24 Methylene chloride	49		3.958	3.959	(0.703)	248149	3.52886	5.26			
25 Allyl Chloride	76		Compound Not Detected.								
26 Carbon Disulfide	76		4.080	4.080	(0.725)	2613195	23.8731	35.6			
27 trans-1,2-dichloroethene	96		4.232	4.226	(0.752)	38388	0.95388	1.42 (Q)			
28 Methyl Tert-Butyl Ether	73		Compound Not Detected.								(D)
29 Vinyl Acetate	43		Compound Not Detected.								(D)
30 1,1-Dichloroethane	63		4.366	4.366	(0.776)	14206	0.17808	0.265			
31 Methyl Ethyl Ketone	72		4.507	4.513	(0.801)	17929	0.73713	1.10 (Q)			
32 n-Hexane	57		4.549	4.549	(0.808)	69971	0.91009	1.36 (Q)			
33 Di-isopropyl Ether	45		Compound Not Detected.								(D)
34 Ethyl Acetate	43		4.689	4.690	(0.833)	38718	0.28046	0.418 (QM)			
35 cis-1,2-Dichloroethene	96		4.695	4.690	(0.834)	1883	0.04340	0.0647 (aQ)			
36 Ethyl Tert-Butyl Ether	59		Compound Not Detected.								(D)
38 Tetrahydrofuran	42		4.964	4.964	(0.882)	158913	2.61154	3.89			
39 1,1,1-Trichloroethane	97		5.214	5.214	(0.926)	13832	0.14100	0.210			
40 1,2-Dichloroethane	62		5.232	5.232	(0.930)	8146	0.10289	0.153			
41 Benzene	78		5.458	5.458	(0.970)	209804	1.69122	2.52			
42 Carbon tetrachloride	117		5.482	5.476	(0.974)	7886	0.08485	0.126			
43 Cyclohexane	56		5.482	5.482	(0.974)	72558	0.94512	1.41 (Q)			
44 Tert Amyl Methyl Ether	73		Compound Not Detected.								(D)
* 45 1,4-Difluorobenzene	114		5.628	5.628	(1.000)	966666	10.0000				
46 2,2,4-Trimethylpentane	57		5.775	5.769	(1.026)	146841	0.63146	0.941 (QM)			
47 Heptane	43		5.909	5.909	(1.050)	38094	0.34981	0.521 (M)			
48 1,2-Dichloropropane	63		Compound Not Detected.								
49 Trichloroethene	130		6.000	6.006	(1.066)	2476	0.04820	0.0718 (a)			
50 Methyl methacrylate	69		Compound Not Detected.								(D)
51 1,4-Dioxane	88		Compound Not Detected.								(D)
52 Bromodichloromethane	83		6.110	6.110	(1.086)	157057	1.63580	2.44			
53 Methylcyclohexane	98		6.457	6.458	(1.147)	24328	0.75865	1.13 (Q)			
54 Methyl Isobutyl Ketone	43		6.573	6.579	(1.168)	34737	0.25272	0.377			
55 cis-1,3-Dichloropropene	75		Compound Not Detected.								
56 trans-1,3-Dichloropropene	75		Compound Not Detected.								
57 Toluene	91		7.201	7.195	(1.279)	1282938	8.97425	13.4			
58 1,1,2-Trichloroethane	97		Compound Not Detected.								
59 Methyl Butyl Ketone	43		Compound Not Detected.								(D)
60 n-Octane	43		7.640	7.634	(0.880)	56627	0.41016	0.611 (Q)			
61 Dibromochloromethane	129		7.738	7.744	(0.891)	58111	0.84356	1.26			
62 1,2-Dibromoethane	107		Compound Not Detected.								
63 Tetrachloroethene	166		8.030	8.036	(0.925)	49106	0.82713	1.23			
* 64 Chlorobenzene - d5	117		8.683	8.683	(1.000)	827003	10.0000				
65 Chlorobenzene	112		Compound Not Detected.								
66 Ethyl Benzene	91		8.969	8.963	(1.033)	256607	1.43920	2.14			
67 m&p-Xylene	91		9.103	9.103	(1.048)	601421	4.43083	6.60			
68 n-Nonane	43		9.475	9.475	(1.091)	38392	0.27874	0.415 (QM)			
69 Bromoform	173		9.506	9.506	(1.095)	43742	1.01069	1.51 (Q)			
70 Styrene	104		Compound Not Detected.								(D)
71 o-Xylene	91		9.591	9.591	(1.105)	326494	2.34643	3.50			
72 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.								(D)
73 Isopropylbenzene	105		10.140	10.146	(1.168)	47016	0.24998	0.372			
74 N-Propylbenzene	91		10.688	10.688	(1.231)	140228	0.60765	0.905			
75 4-Ethyltoluene	105		10.853	10.853	(1.250)	120358	0.69820	1.04 (M)			
76 1,3,5-Trimethylbenzene	105		10.938	10.938	(1.260)	151027	1.01496	1.51			
77 n-Decane	57		11.280	11.274	(2.004)	317063	2.73529	4.08 (QM)			
78 Tert-Butyl Benzene	119		Compound Not Detected.								(D)

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ppbv)	FINAL (ppbv)	
79 1,2,4-Trimethylbenzene	105		11.408	11.408	(1.314)	327827	2.22222	3.31	
80 Sec- Butylbenzene	105		11.676	11.676	(1.345)	43275	0.20687	0.308	
81 1,3-Dichlorobenzene	146		Compound Not Detected.						
82 Benzyl Chloride	91		Compound Not Detected.						
83 1,4-Dichlorobenzene	146		11.761	11.767	(1.355)	11423	0.15005	0.224 (M)	
84 p-Isopropyltoluene	119		11.840	11.847	(1.364)	32078	0.19432	0.290	
85 1,2,3-Trimethylbenzene	105		11.889	11.883	(1.369)	119841	0.84815	1.26	
86 1,2-Dichlorobenzene	146		Compound Not Detected.						
87 N-Butylbenzene	91		12.273	12.273	(1.414)	38633	0.23667	0.353	
88 1,2-Dibromo-3-Chloropropane	157		Compound Not Detected.						
89 1,2,4-Trichlorobenzene	180		Compound Not Detected.						
90 Naphthalene	128		13.852	13.846	(1.595)	16696	0.15451	0.230	
91 Hexachlorobutadiene	225		Compound Not Detected.						

(D)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08919.D
Report Date: 31-Mar-2019 14:11

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airI.i
Lab File ID: 08919.D
Lab Smp Id: 10468767009
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
Misc Info: 33312

Calibration Date: 30-MAR-2019
Calibration Time: 08:43

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	1148342	689005	1607679	966666	-15.82
64 Chlorobenzene - d	994820	596892	1392748	827003	-16.87

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.63	5.30	5.96	5.63	-0.00
64 Chlorobenzene - d	8.68	8.35	9.01	8.68	-0.00

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

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

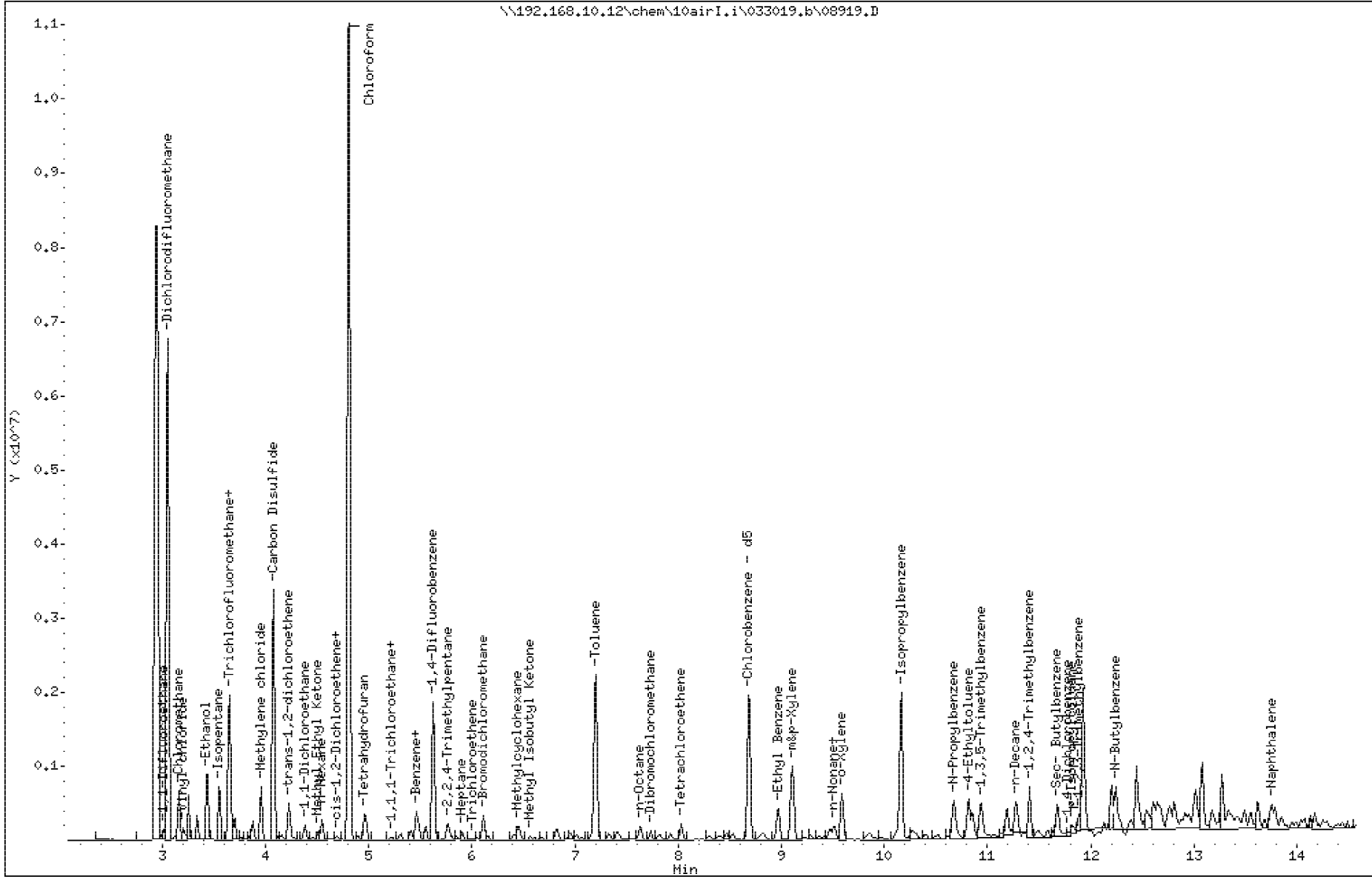
Sample Info:

Column phase: DB-5 SN:USD449717H

Instrument: 10airI.i

Operator: MJL

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

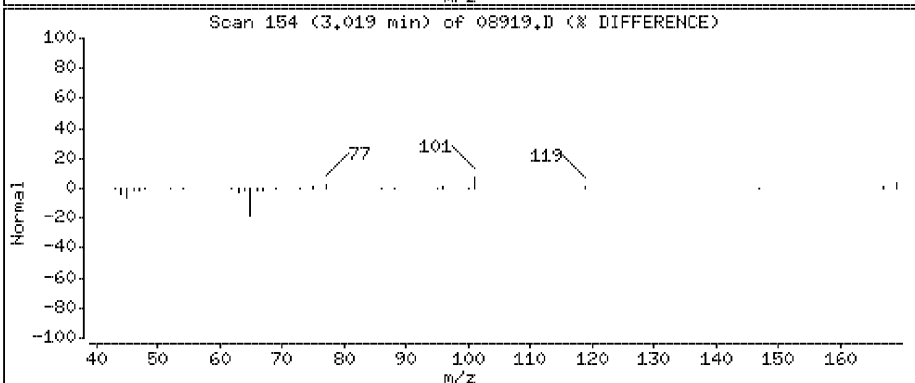
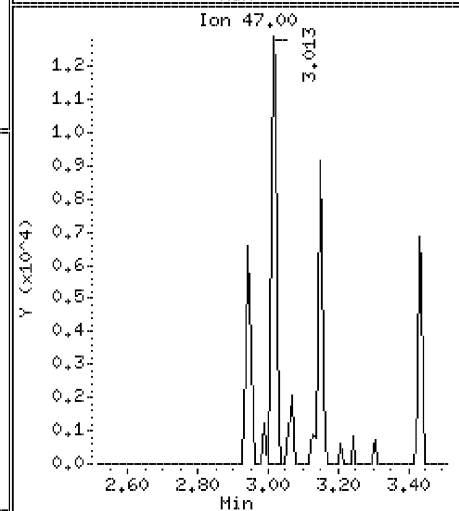
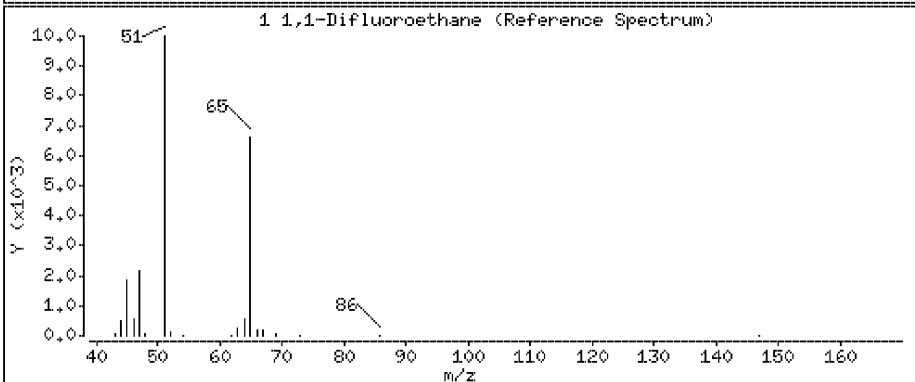
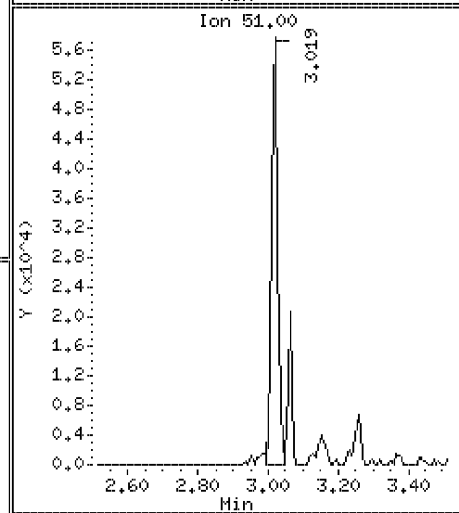
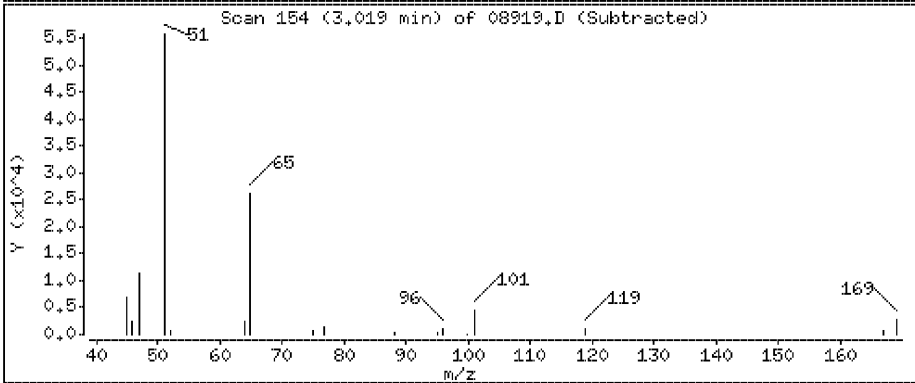
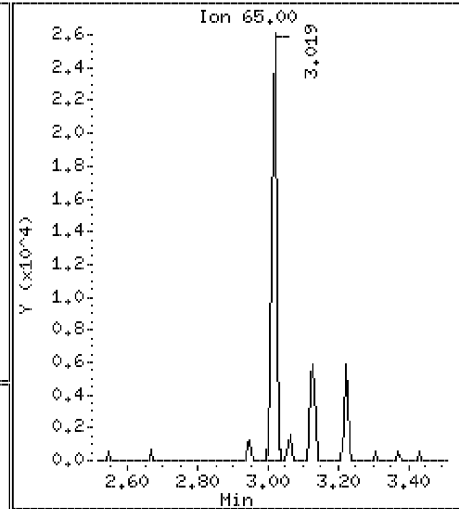
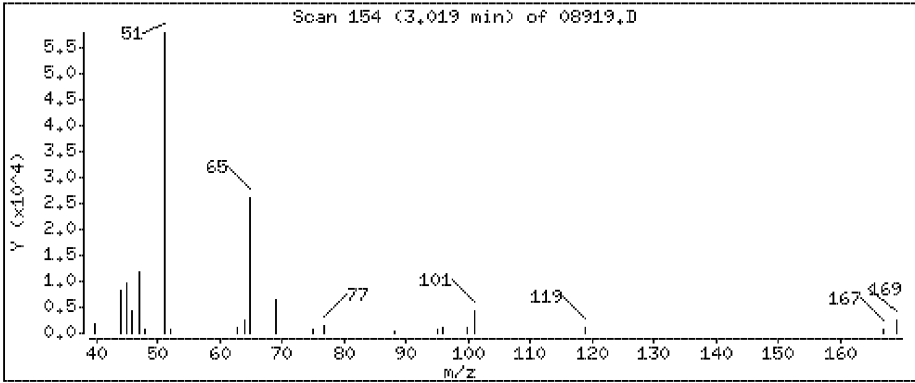
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

1 1,1-Difluoroethane

Concentration: 1,33 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

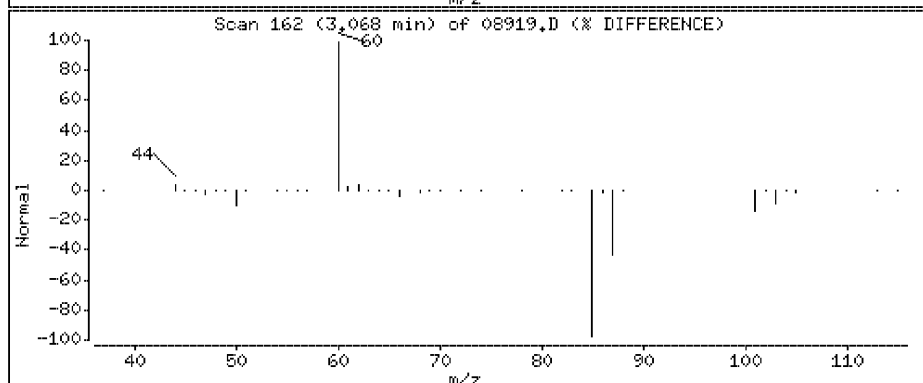
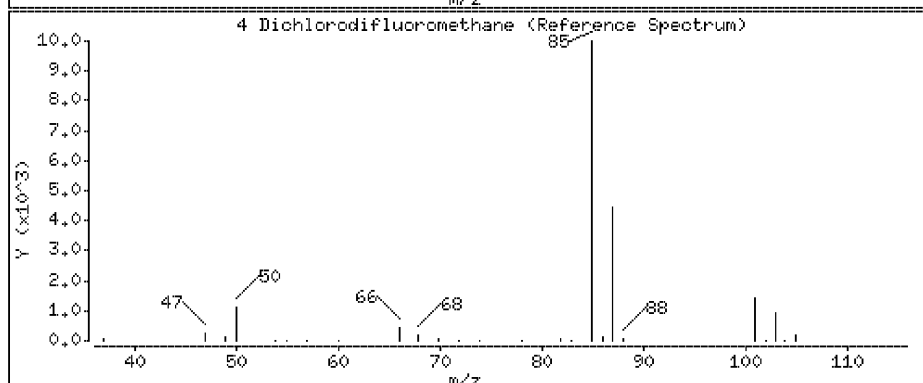
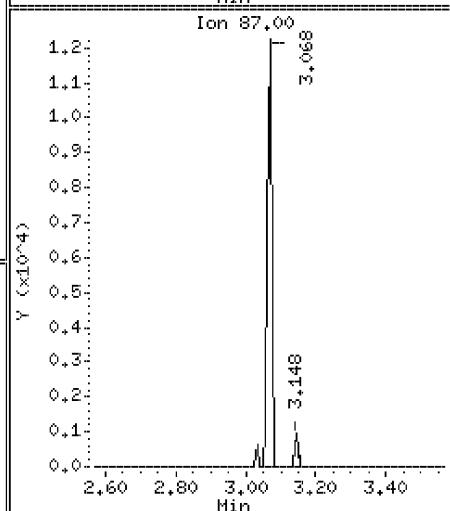
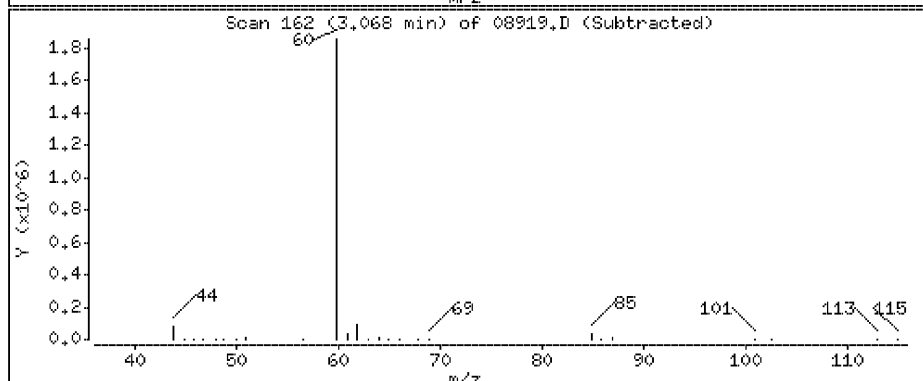
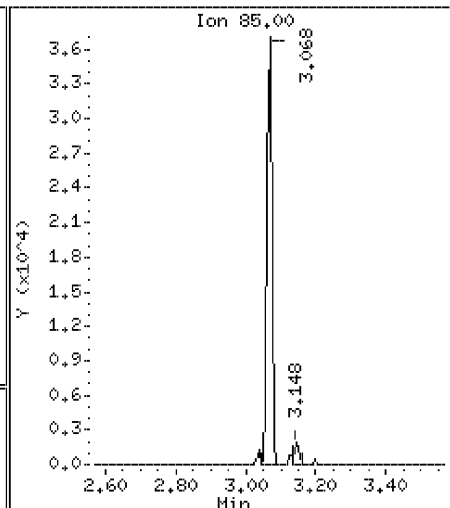
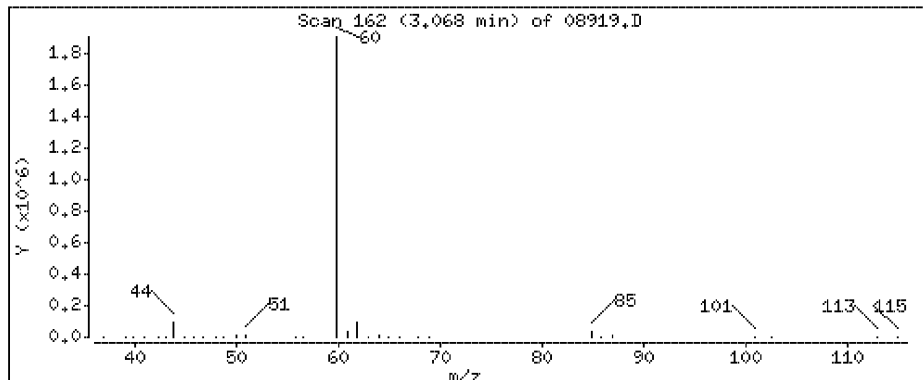
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

4 Dichlorodifluoromethane

Concentration: 0,405 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

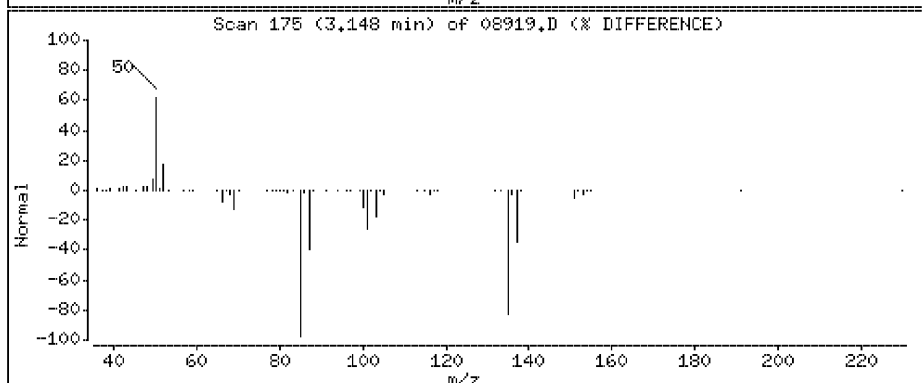
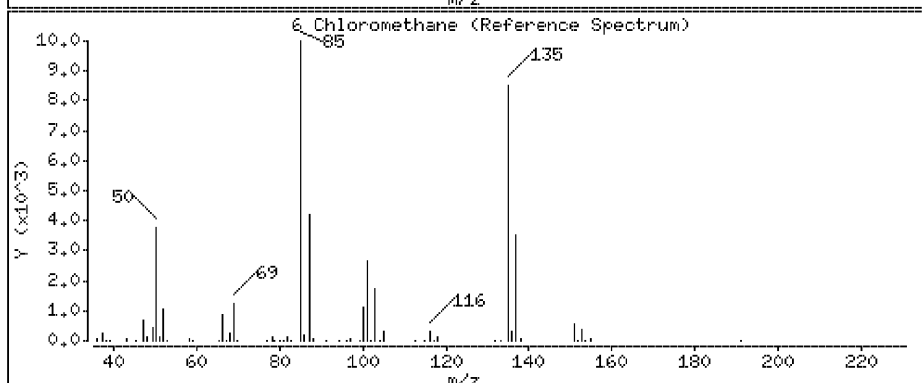
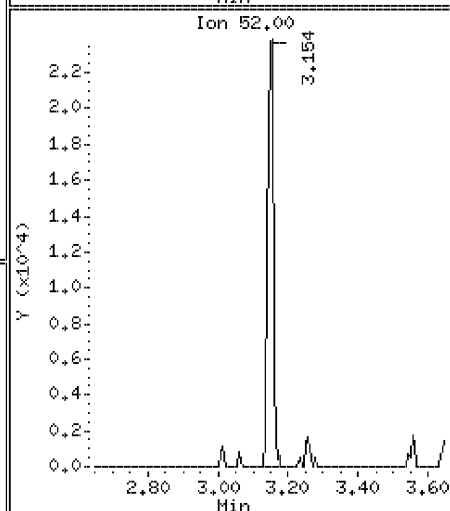
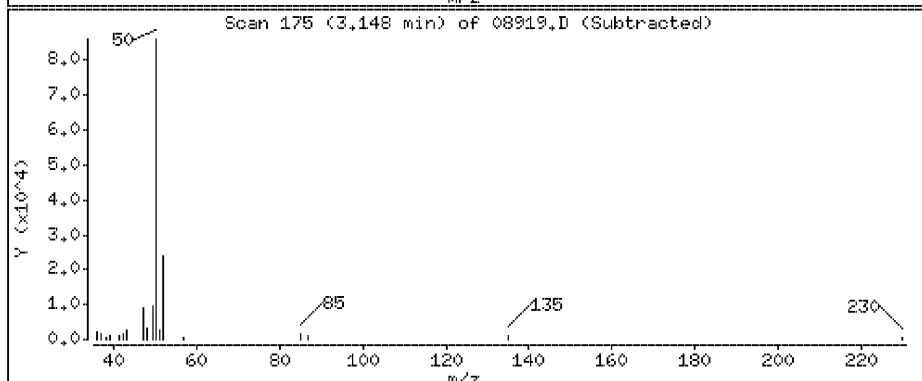
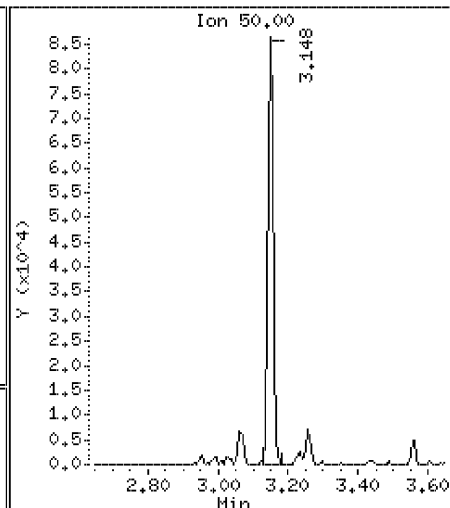
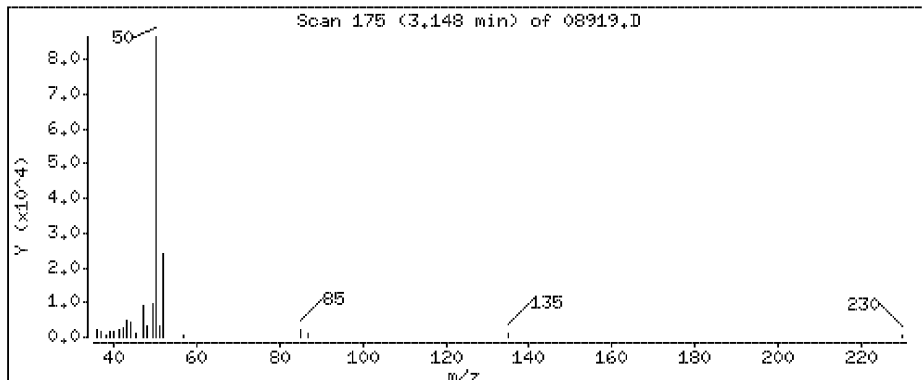
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

6 Chloromethane

Concentration: 2.49 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

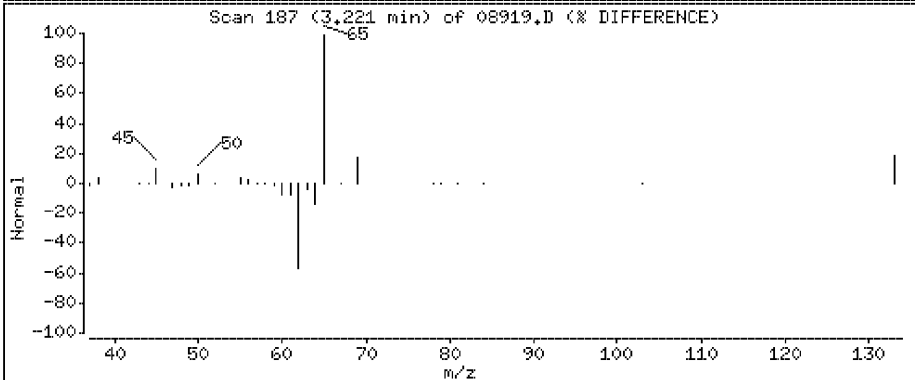
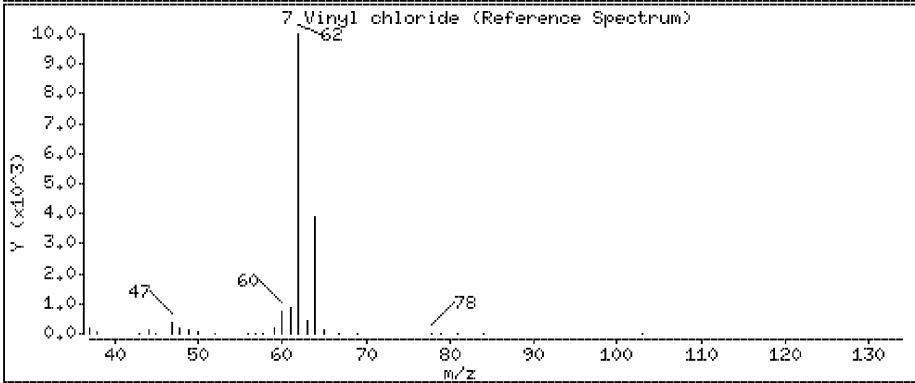
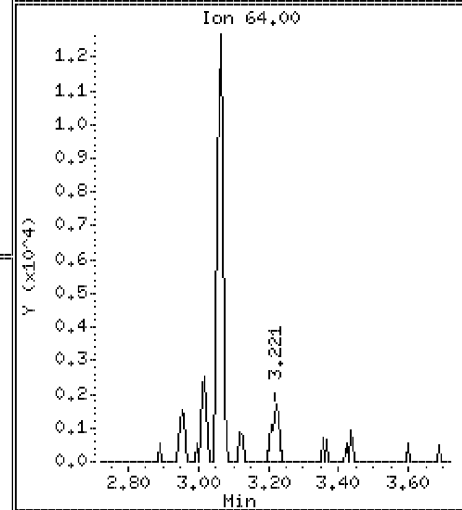
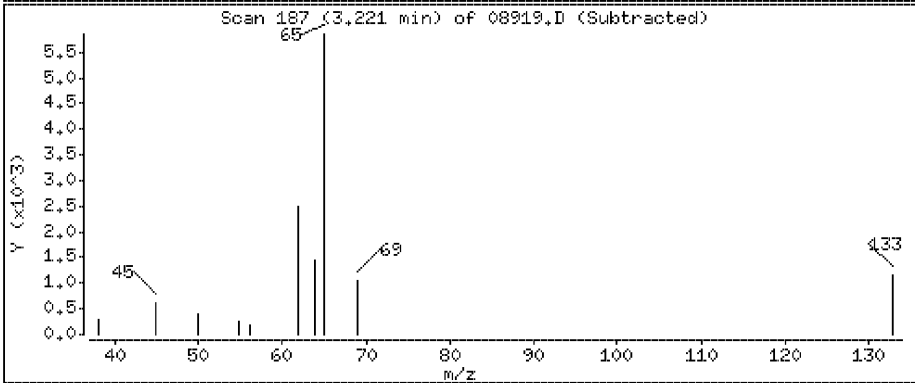
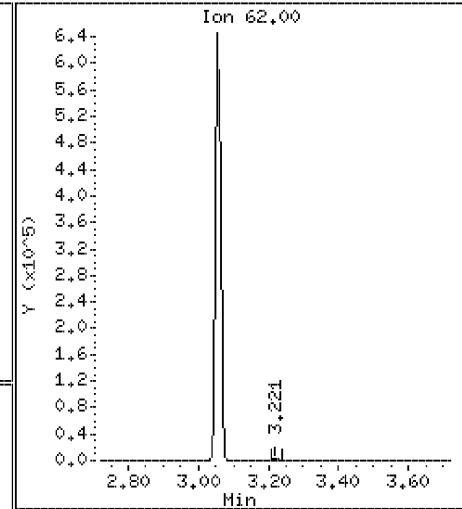
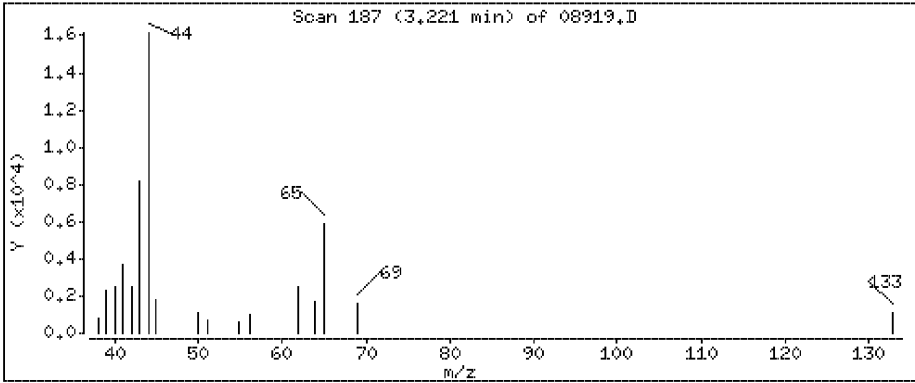
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

7 Vinyl chloride

Concentration: 0,119 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

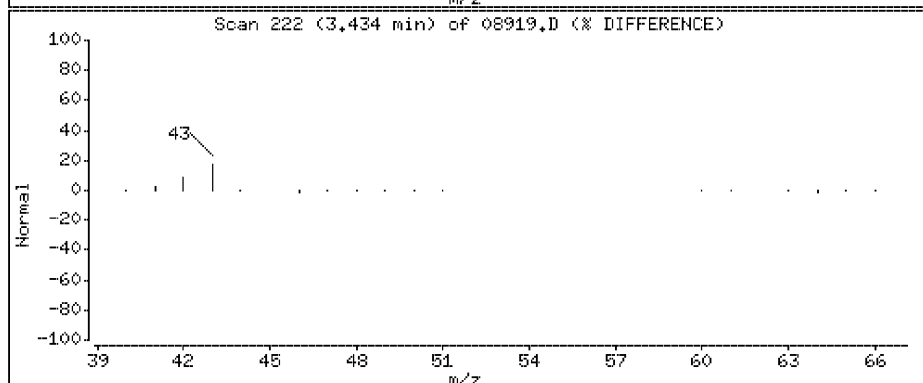
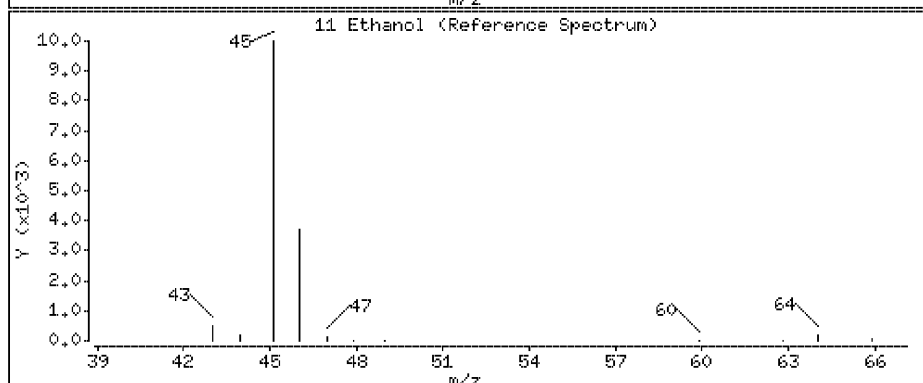
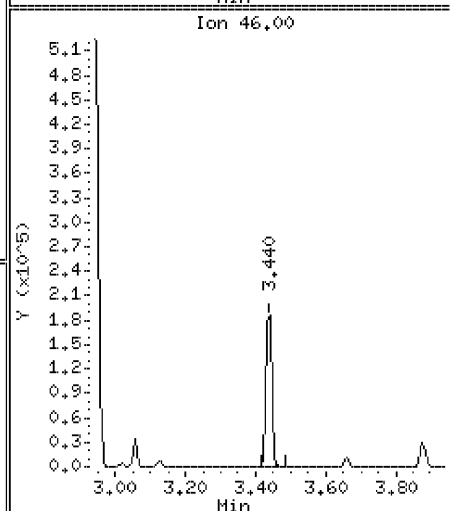
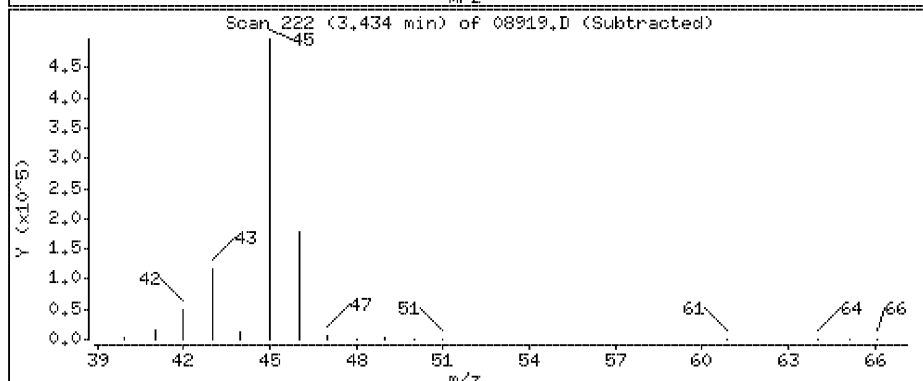
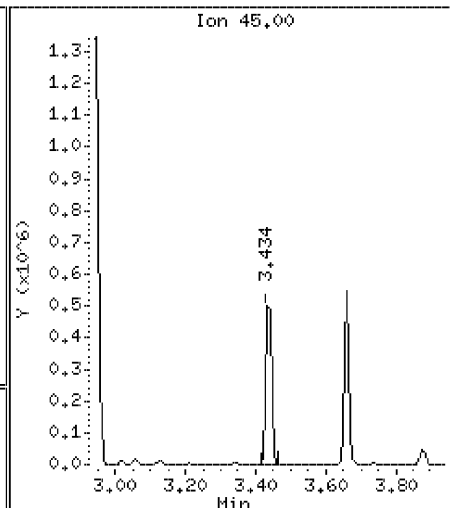
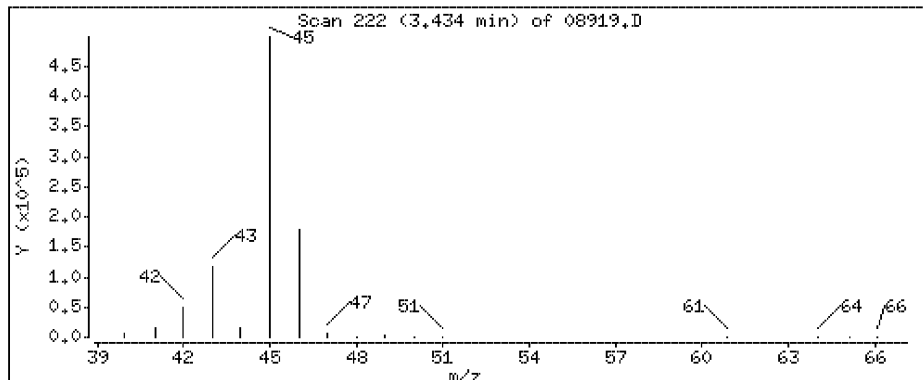
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

11 Ethanol

Concentration: 41,8 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

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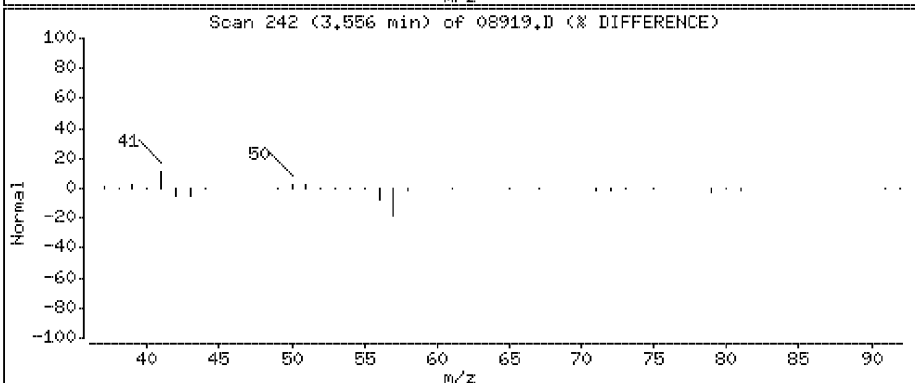
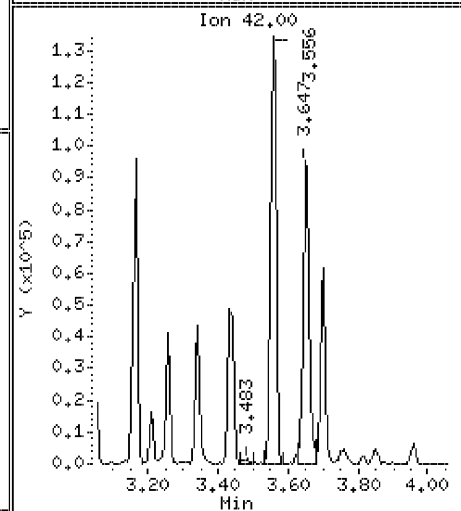
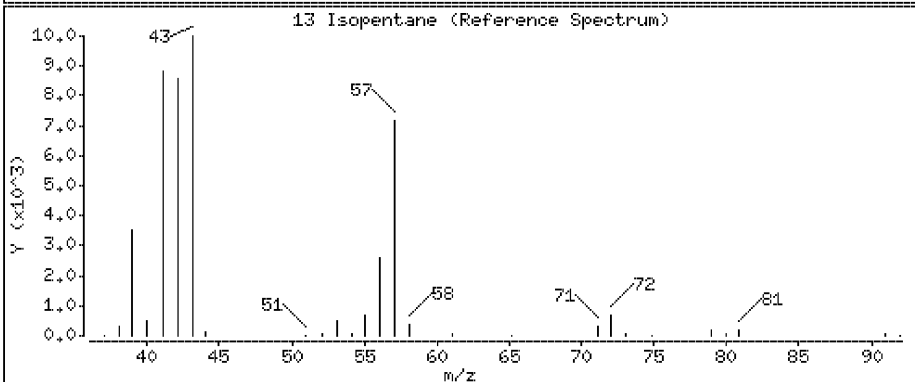
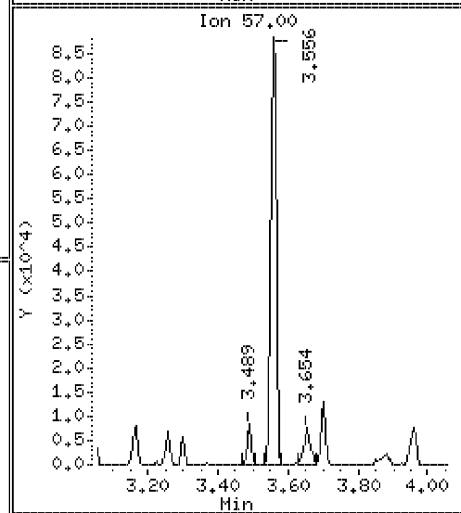
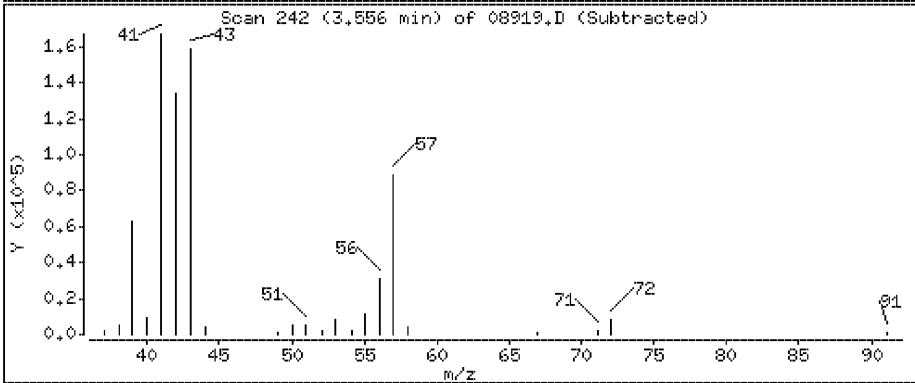
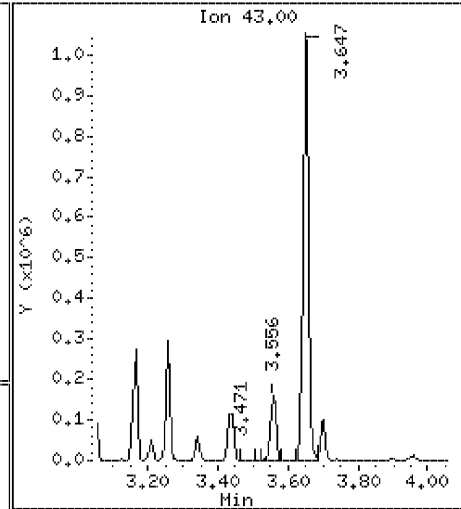
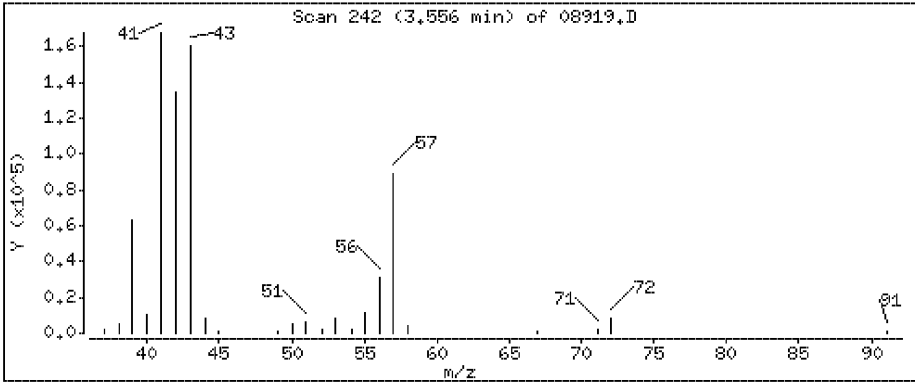
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

13 Isopentane

Concentration: 5.36 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

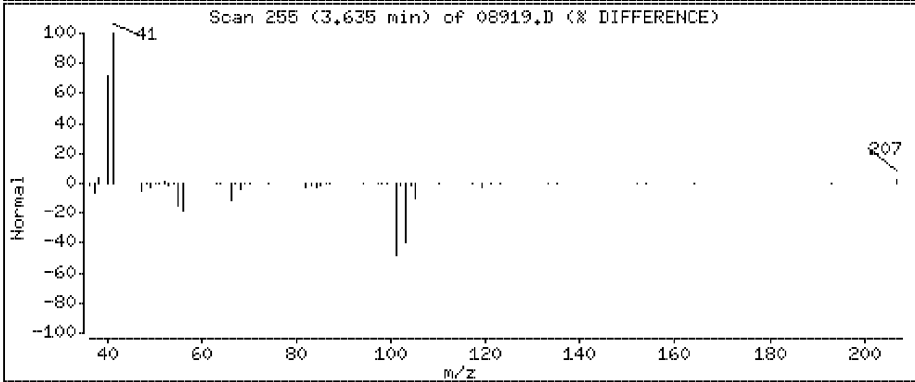
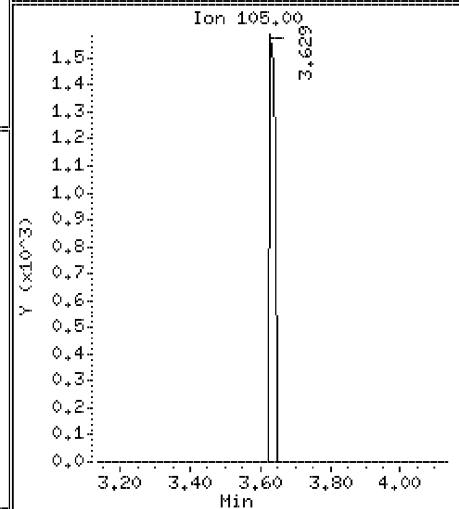
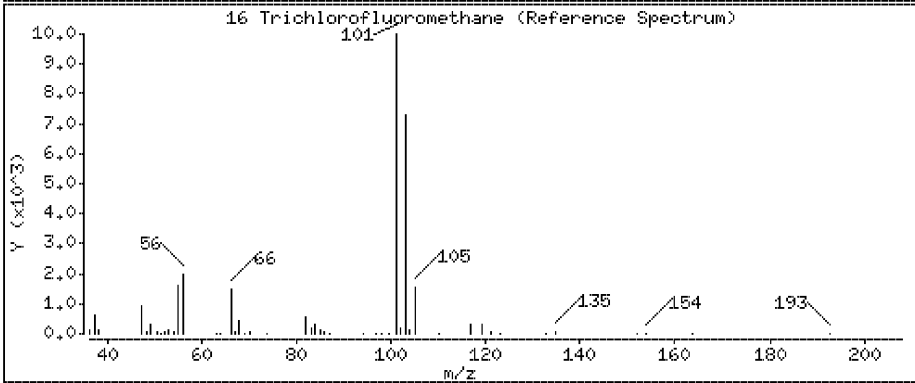
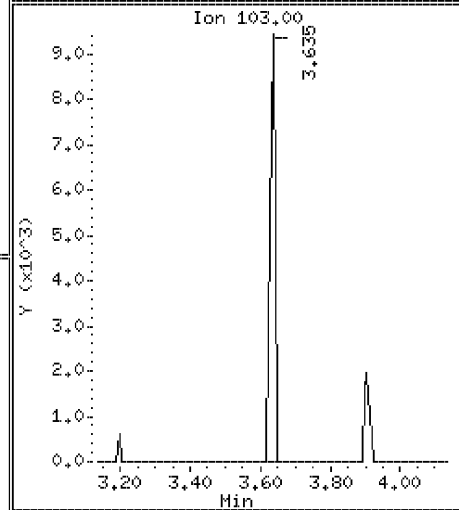
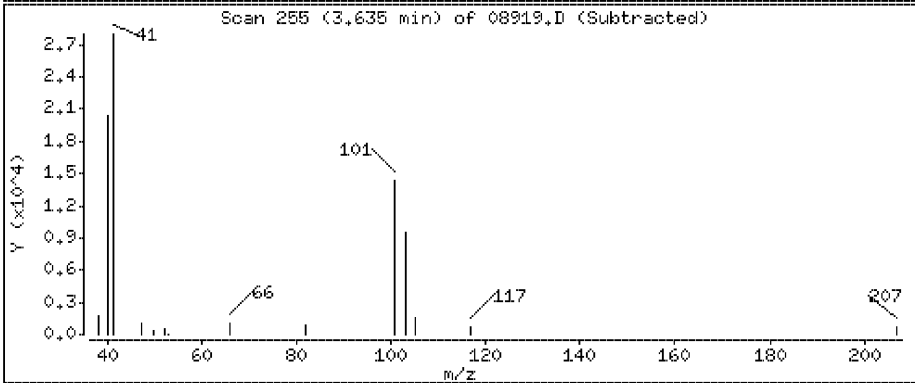
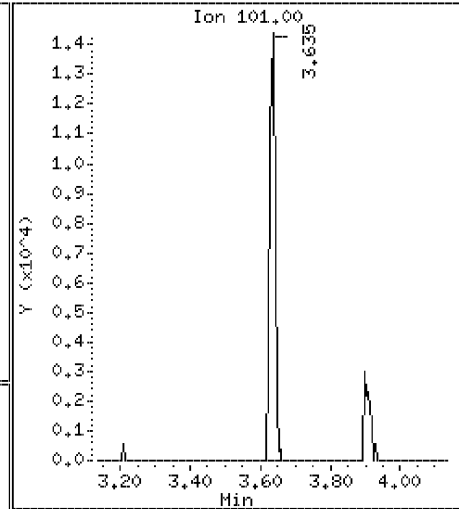
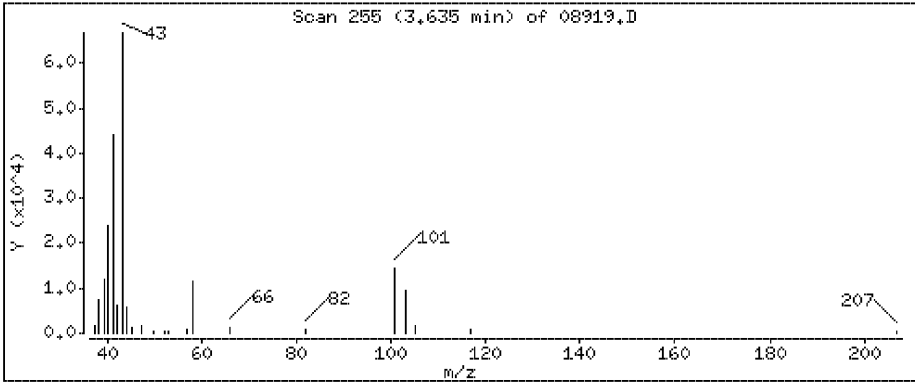
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

16 Trichlorofluoromethane

Concentration: 0,211 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

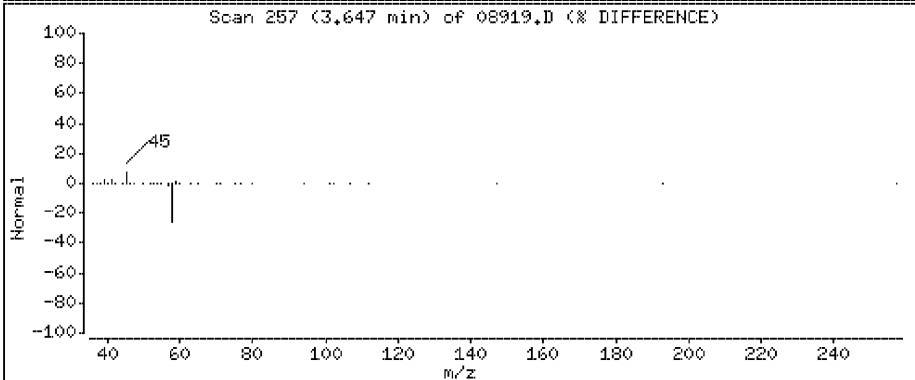
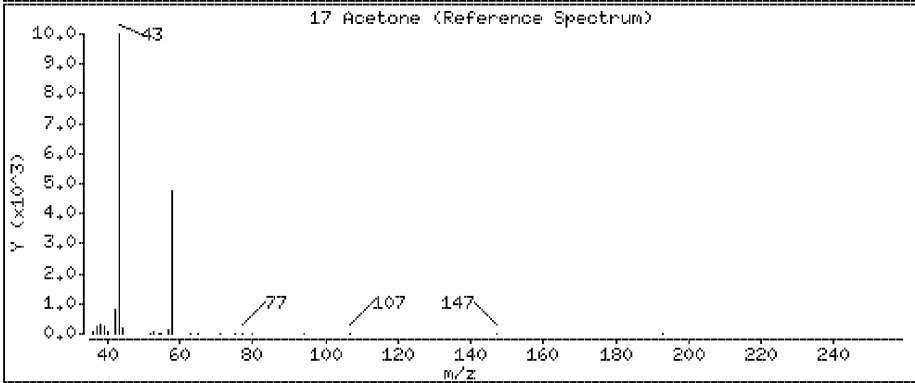
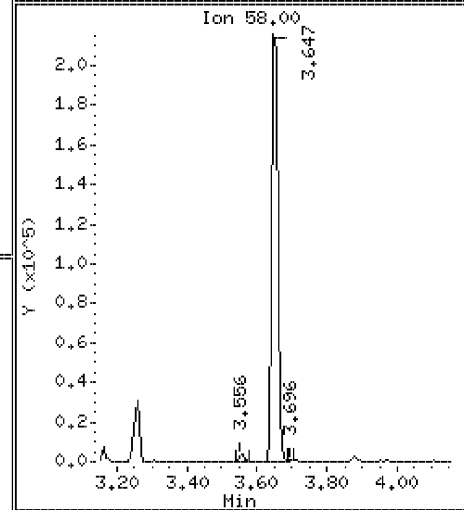
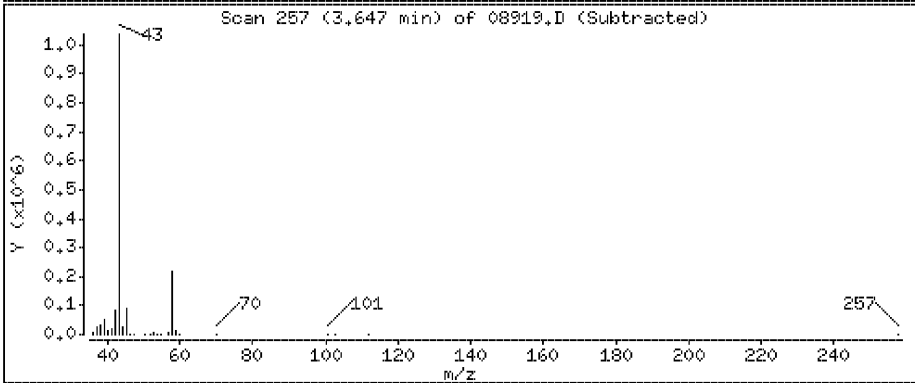
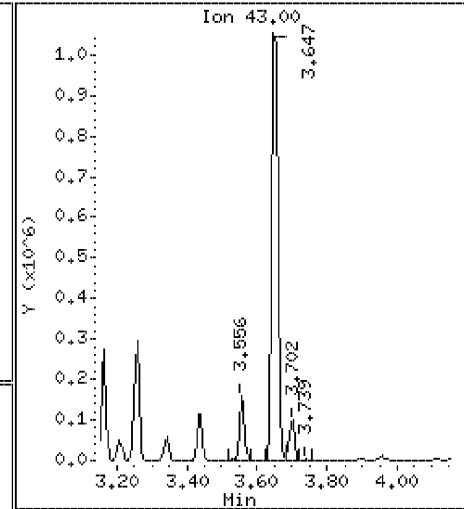
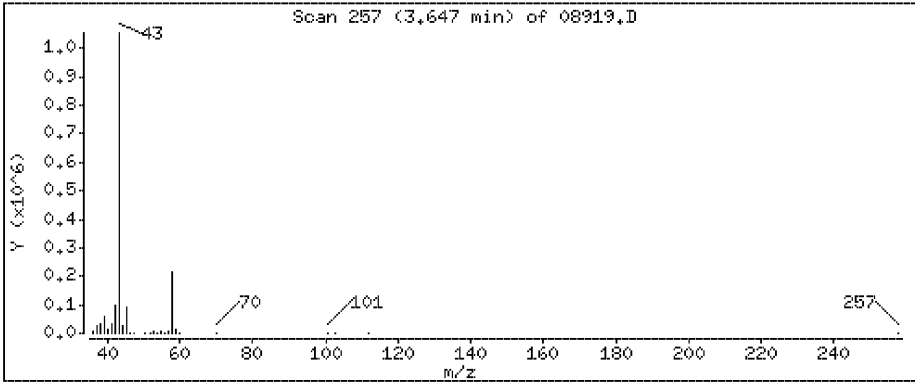
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

17 Acetone

Concentration: 16.9 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

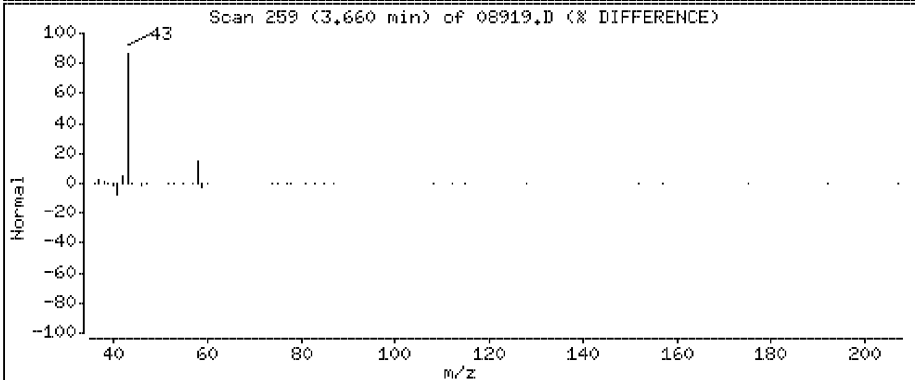
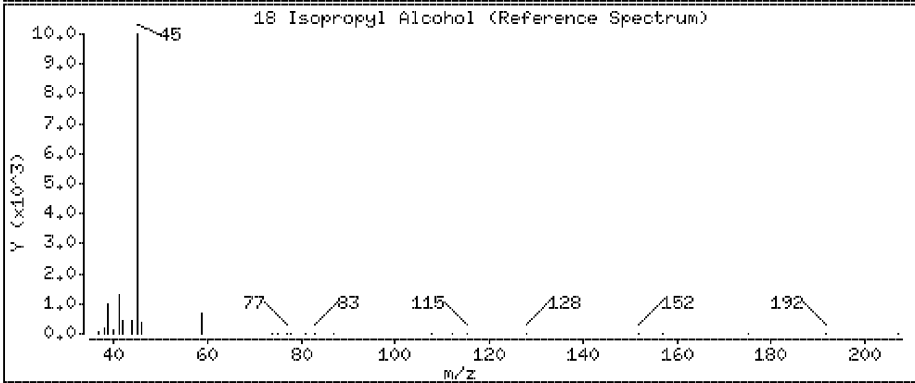
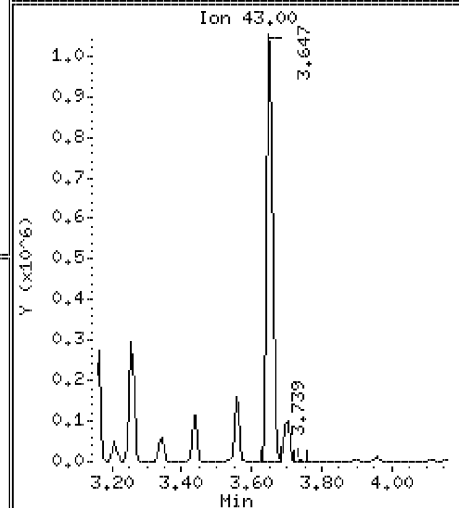
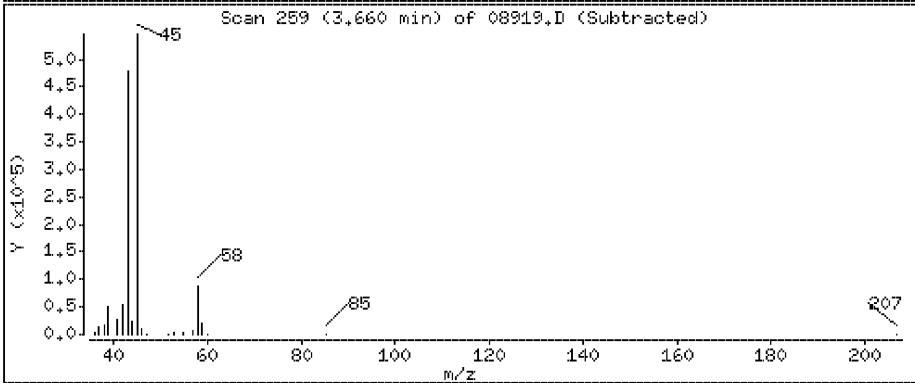
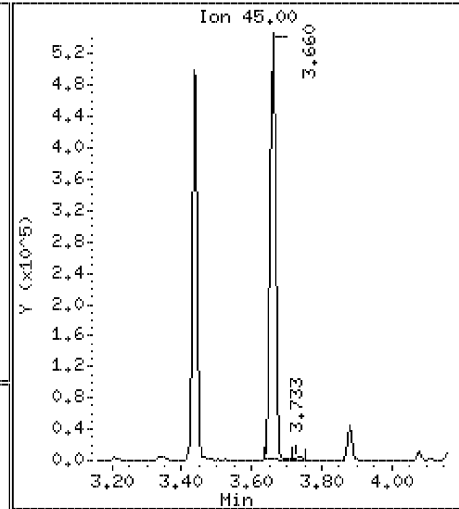
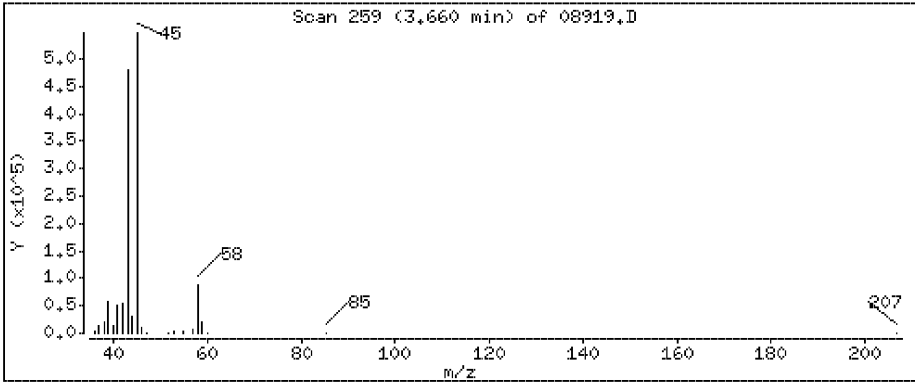
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

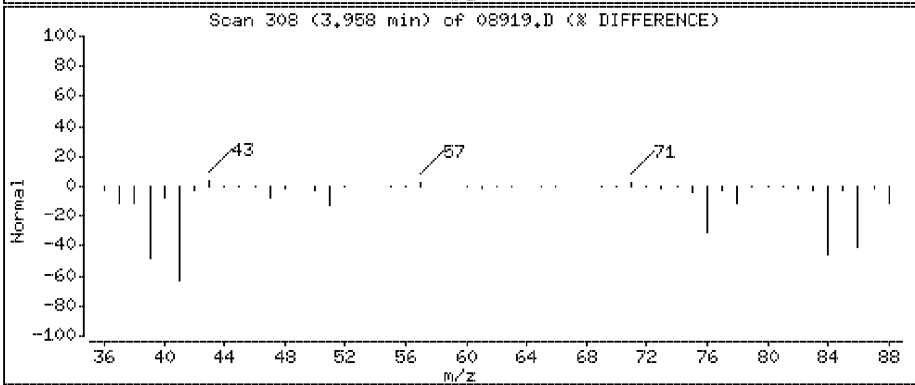
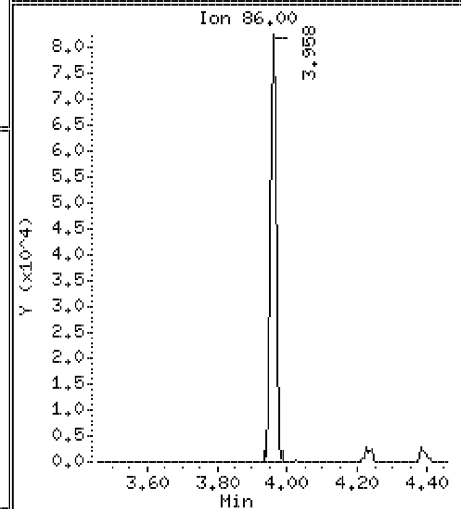
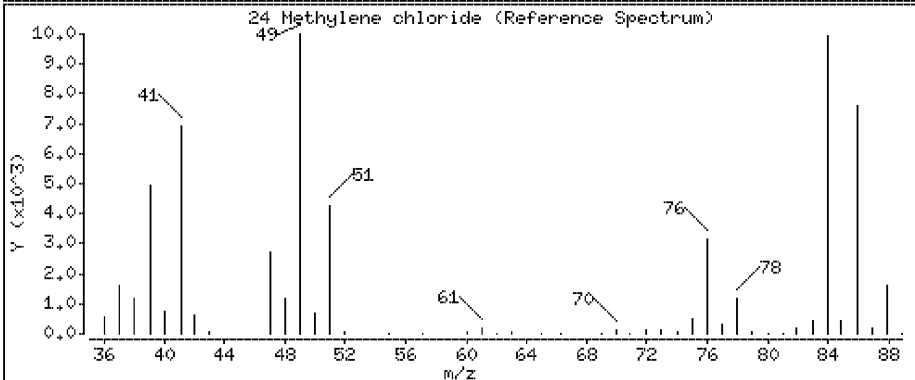
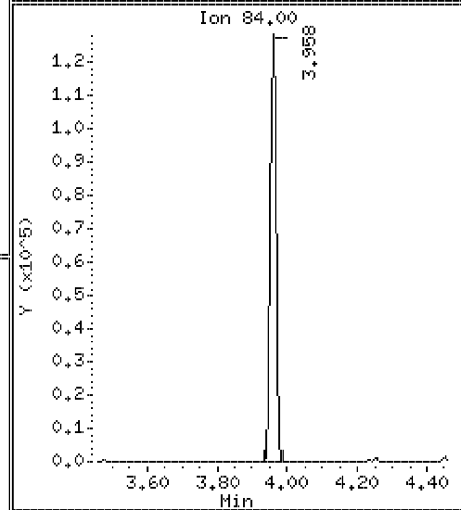
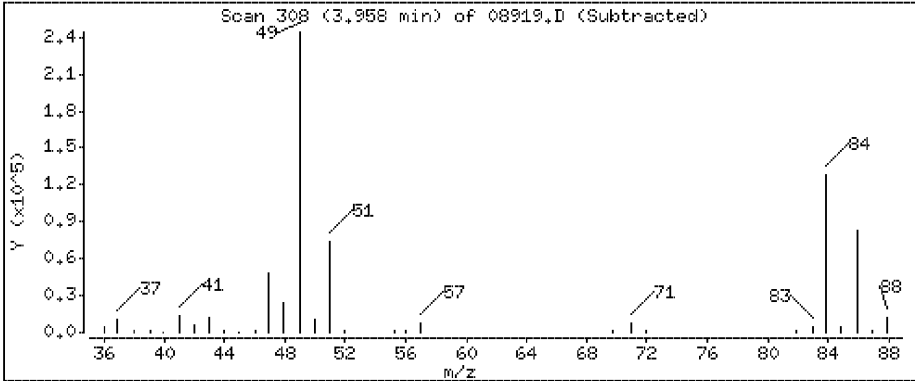
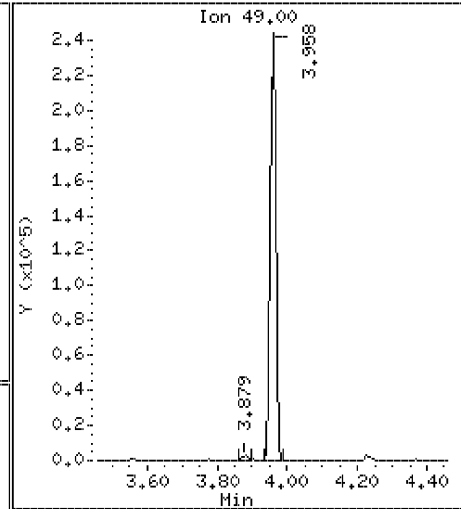
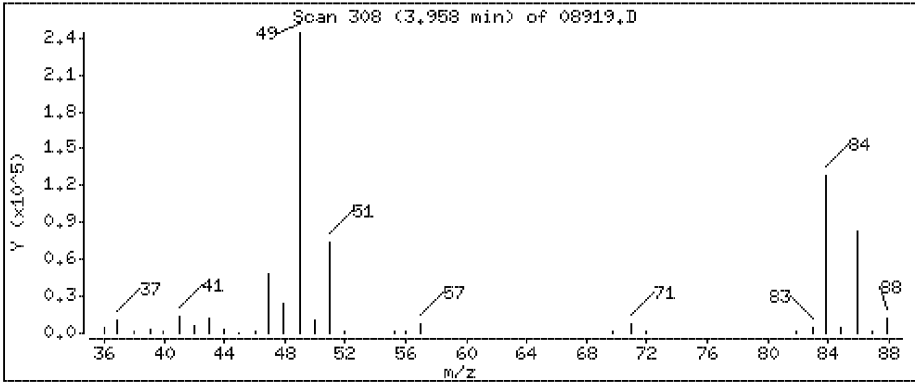
18 Isopropyl Alcohol

Concentration: 10,5 ppbv



24 Methylene chloride

Concentration: 5.26 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

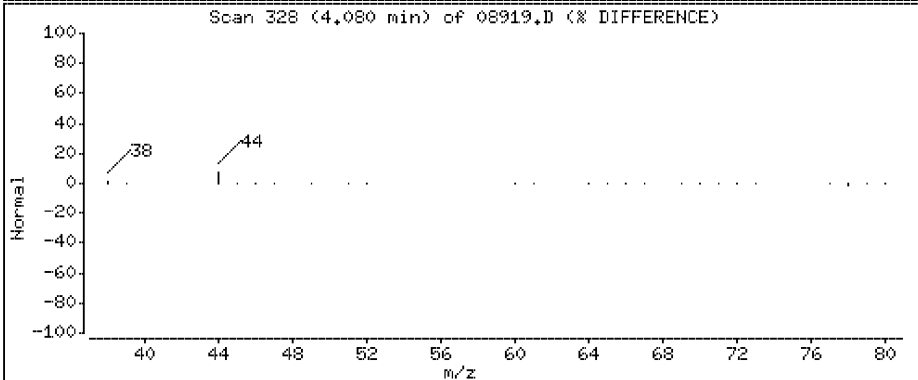
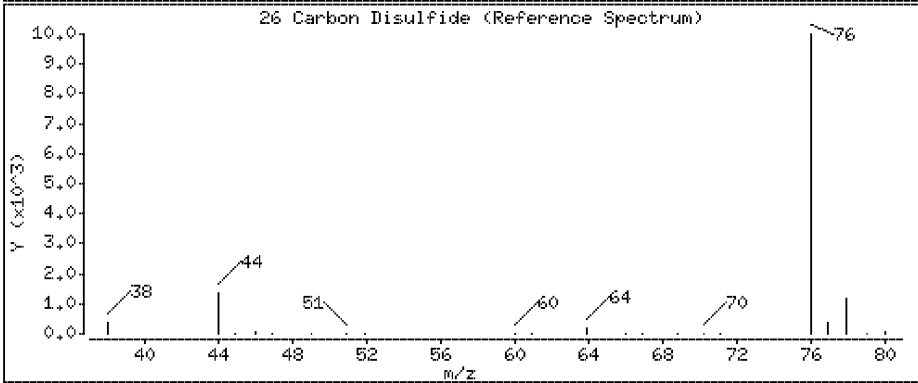
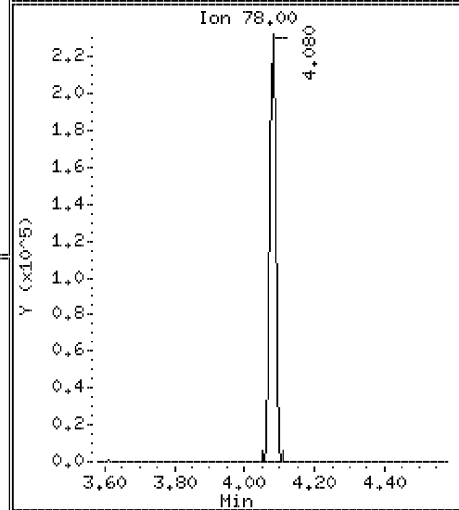
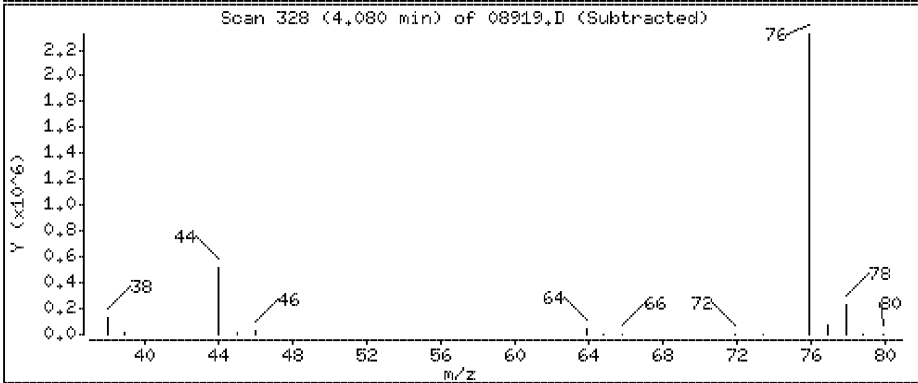
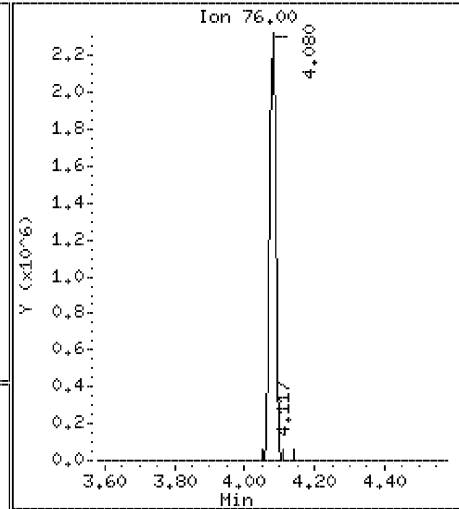
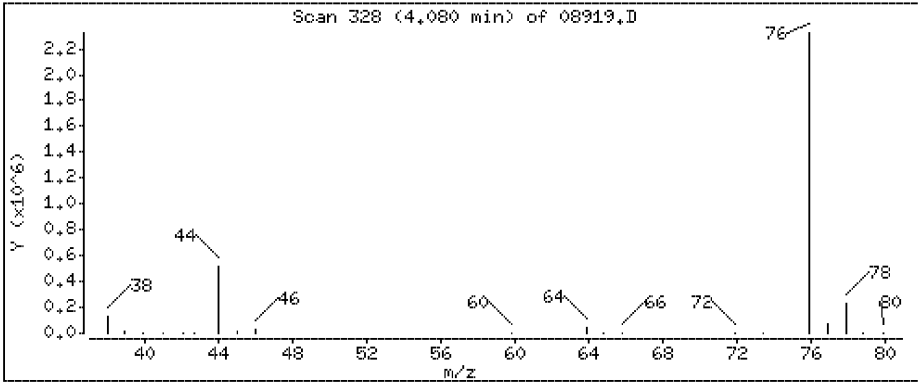
Operator: MJL

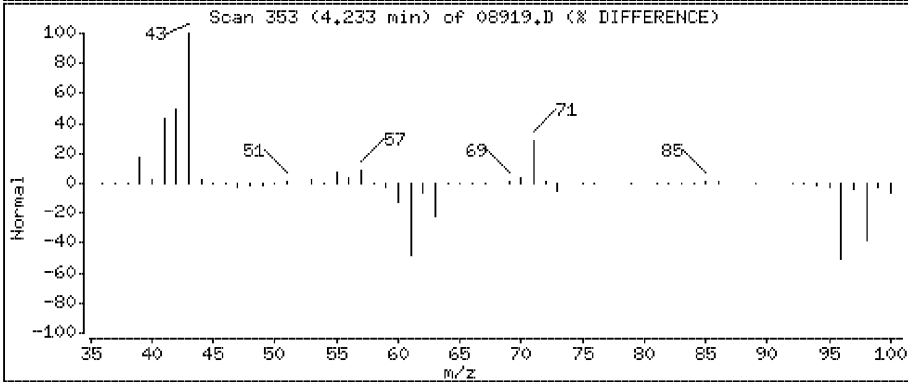
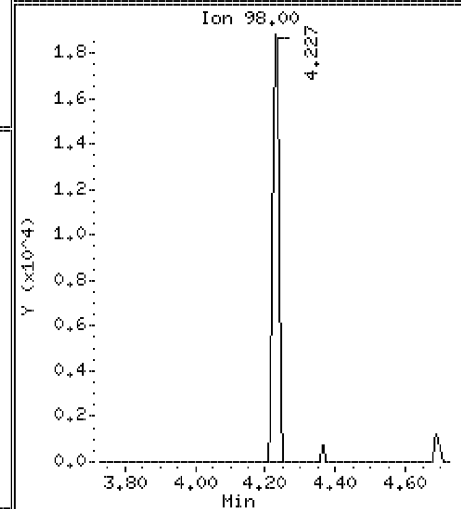
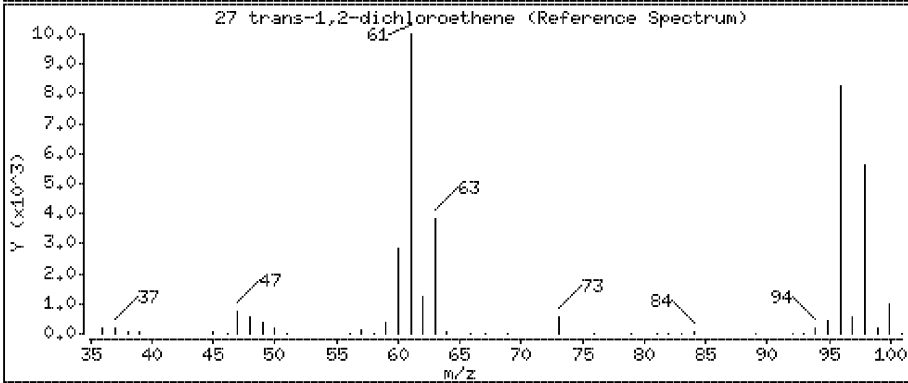
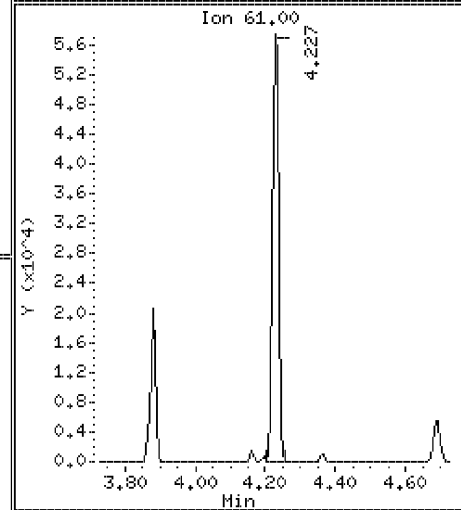
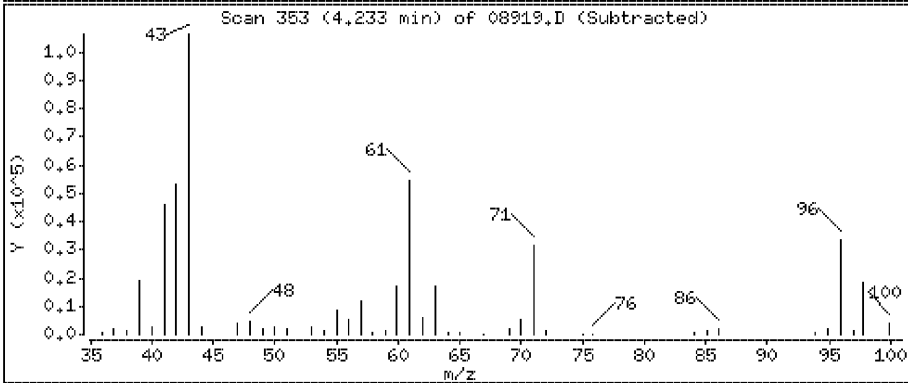
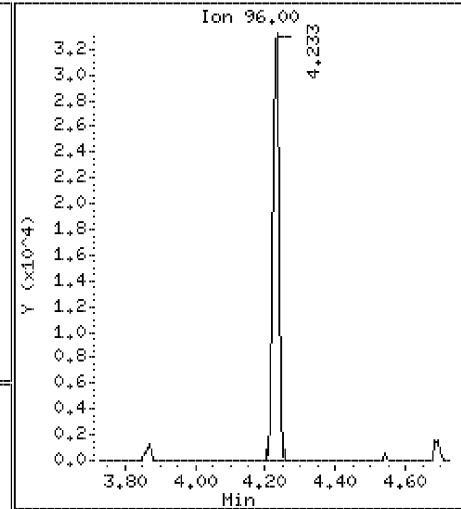
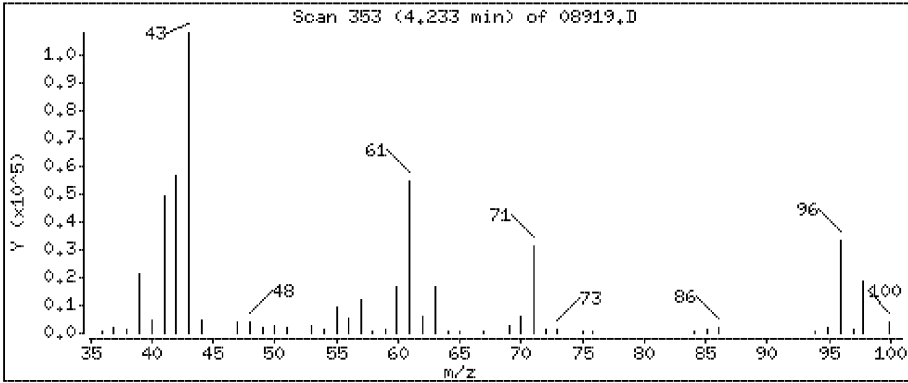
Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

26 Carbon Disulfide

Concentration: 35,6 ppbv





Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

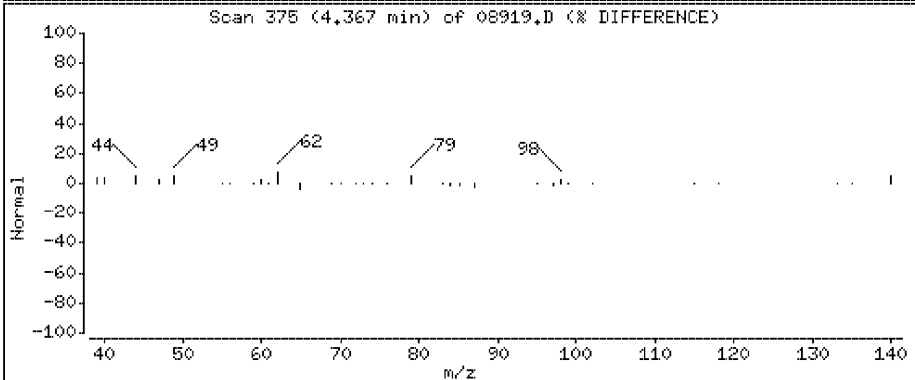
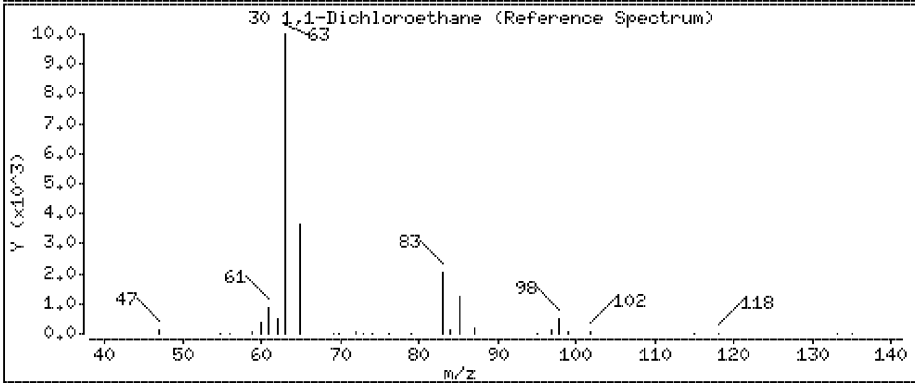
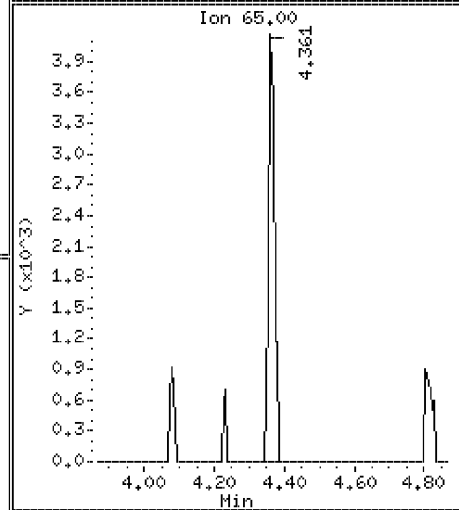
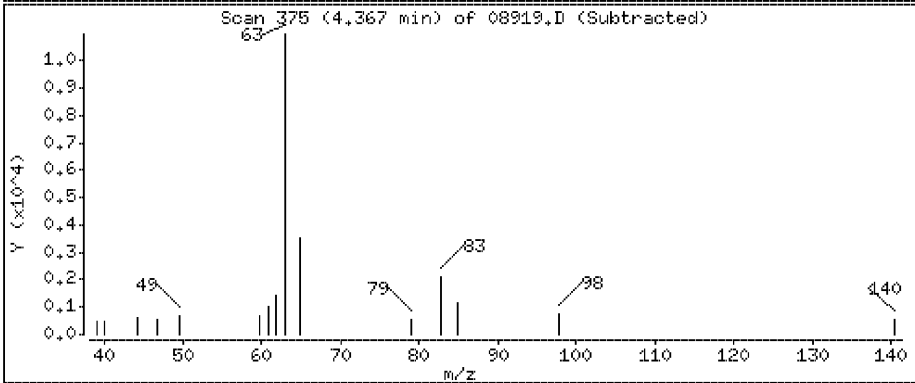
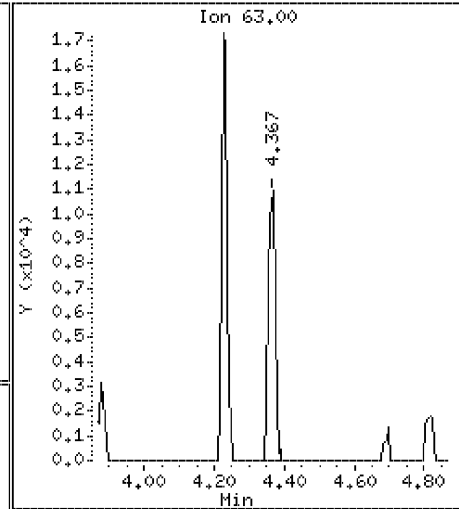
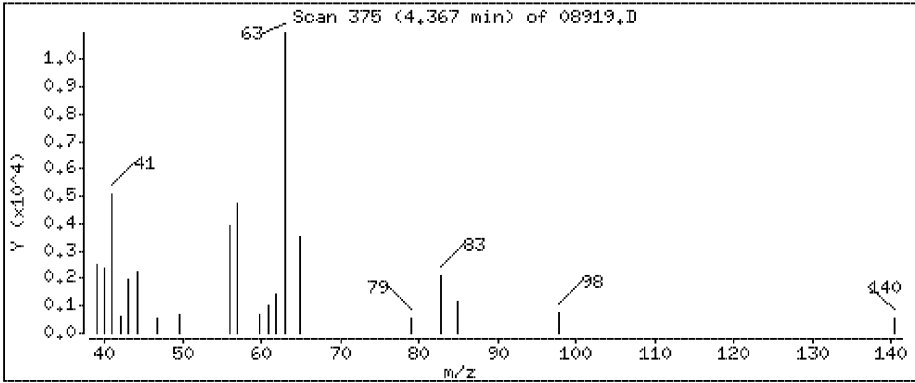
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

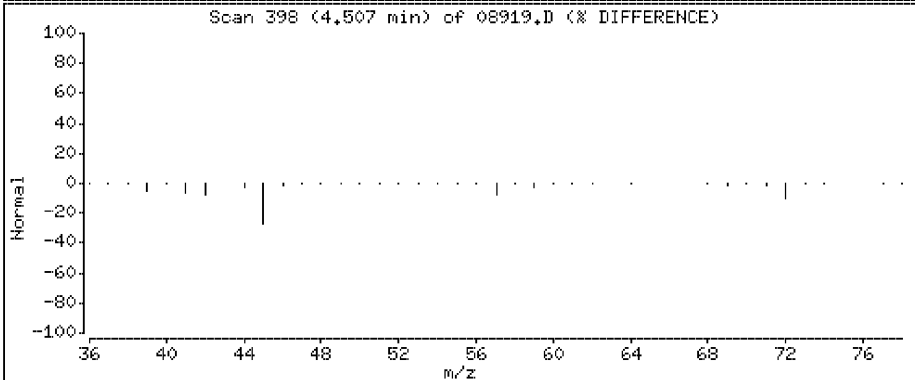
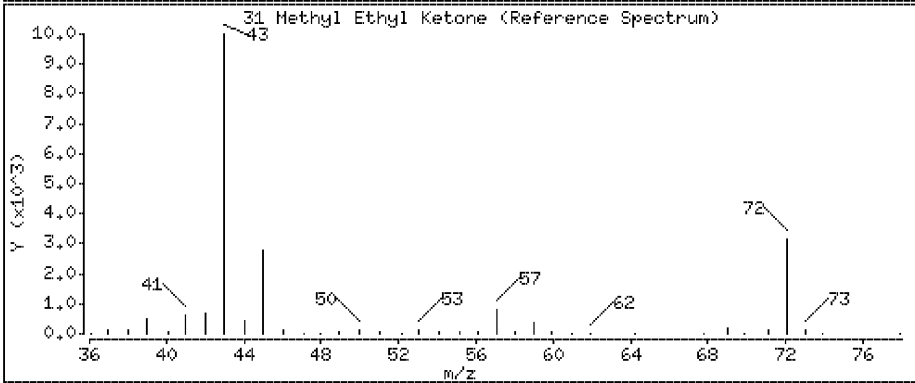
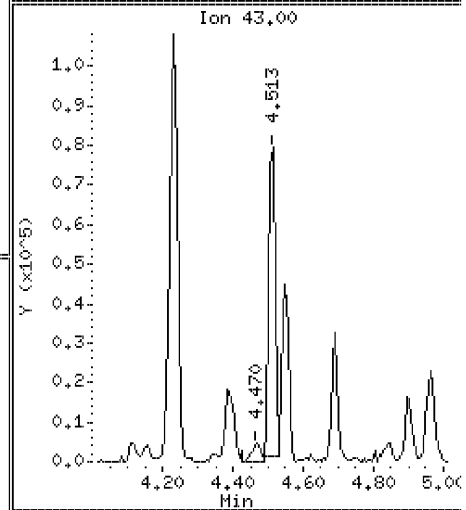
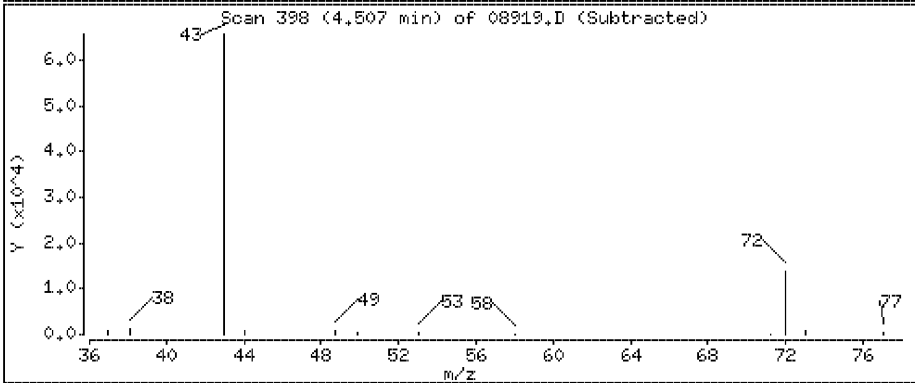
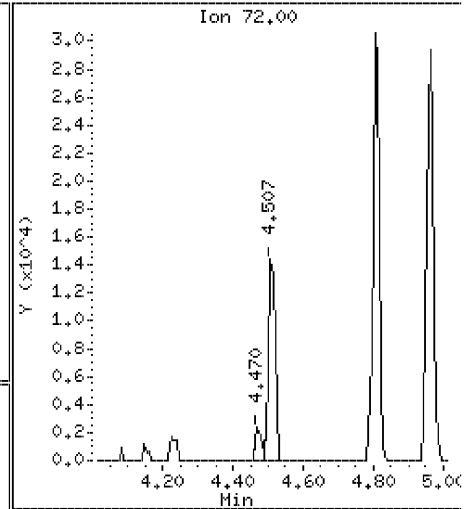
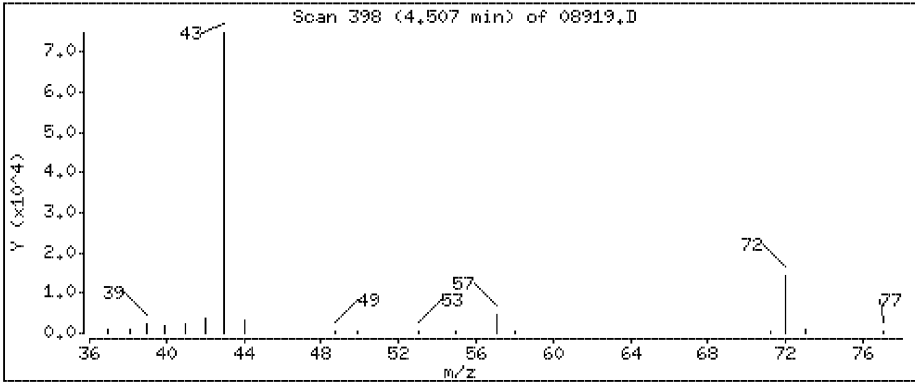
30 1,1-Dichloroethane

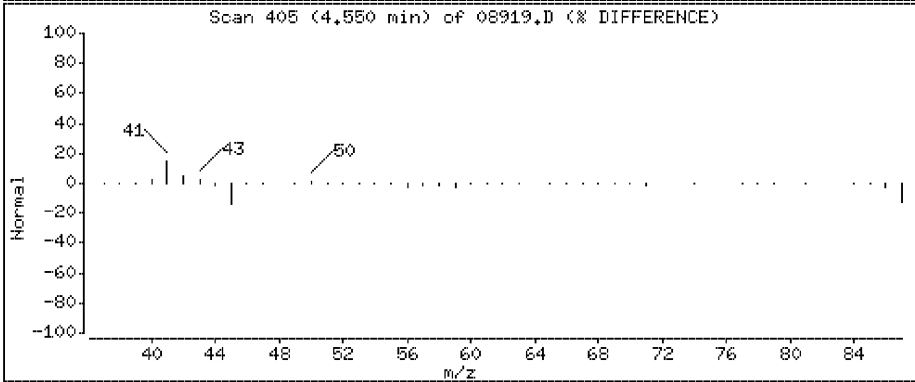
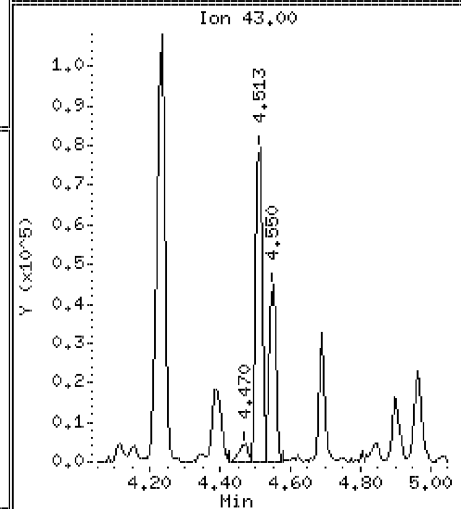
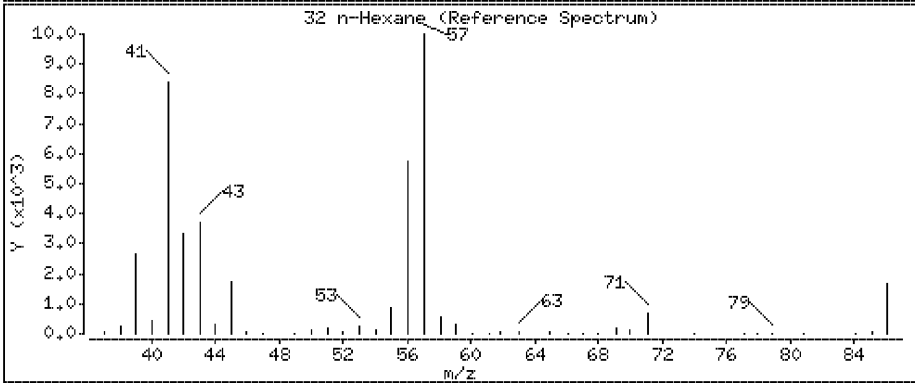
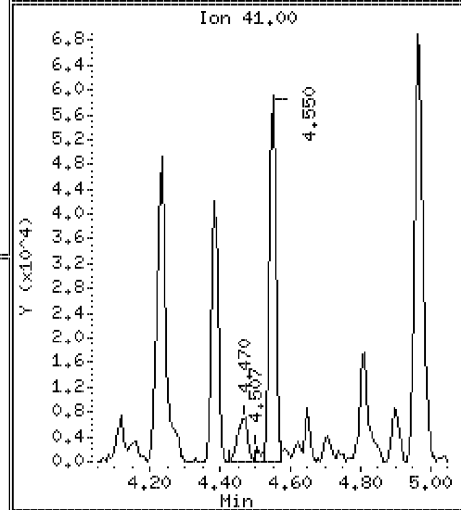
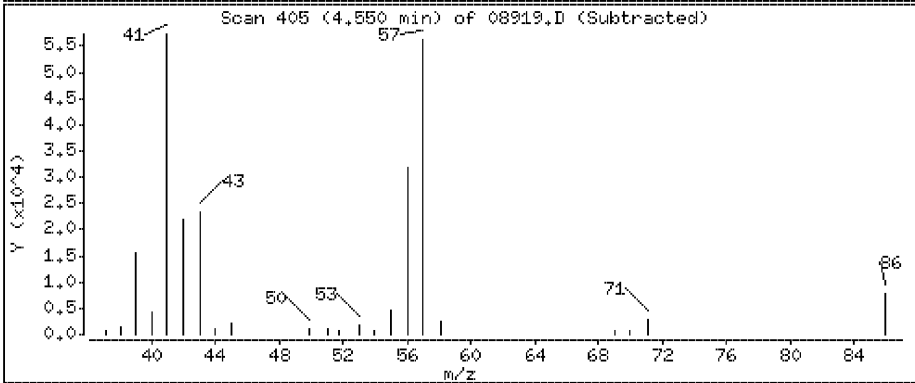
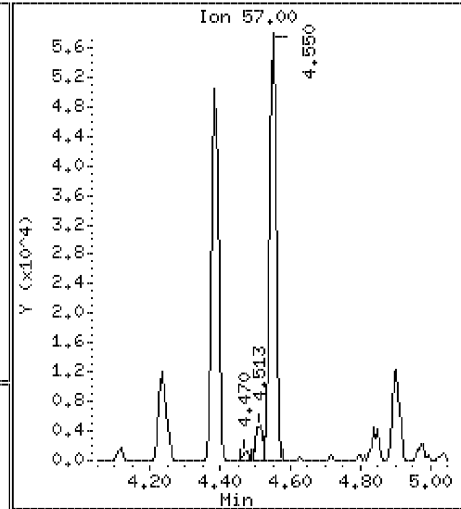
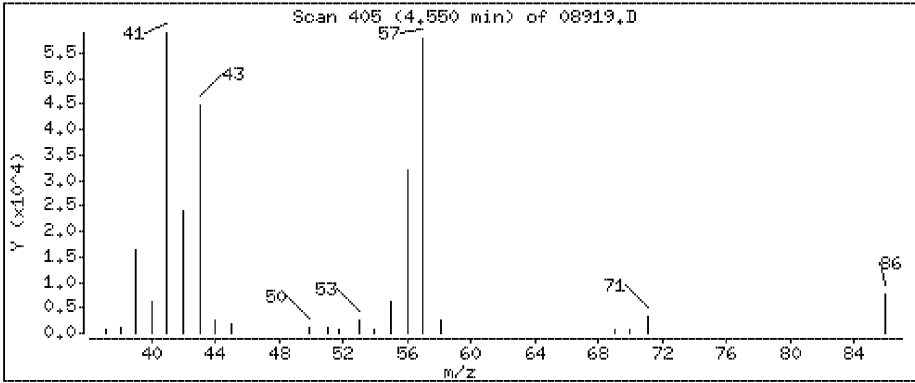
Concentration: 0.265 ppbv



31 Methyl Ethyl Ketone

Concentration: 1.10 ppbv





Data File: \\192.168.10.12\chem\10airI,i\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

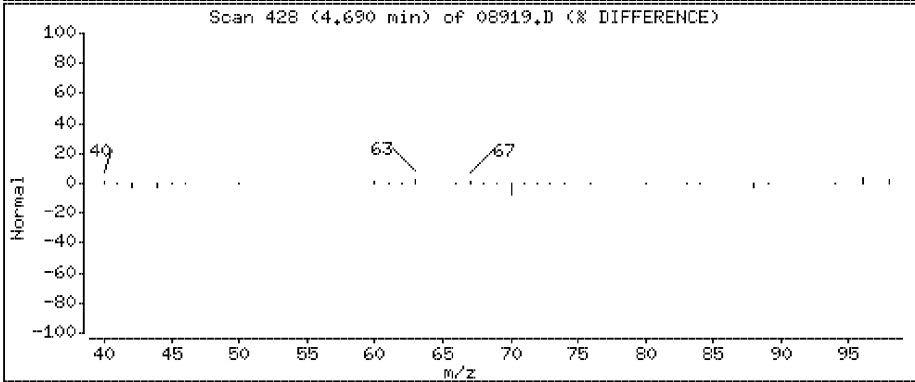
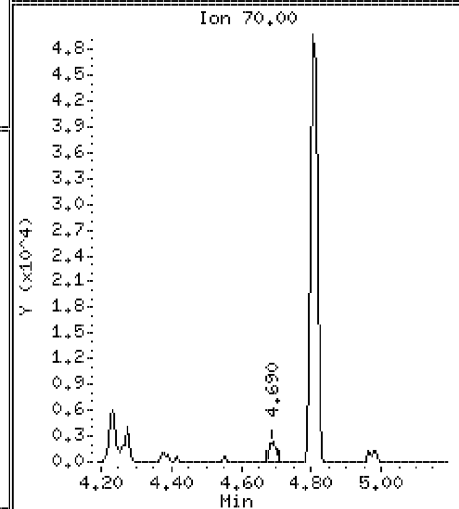
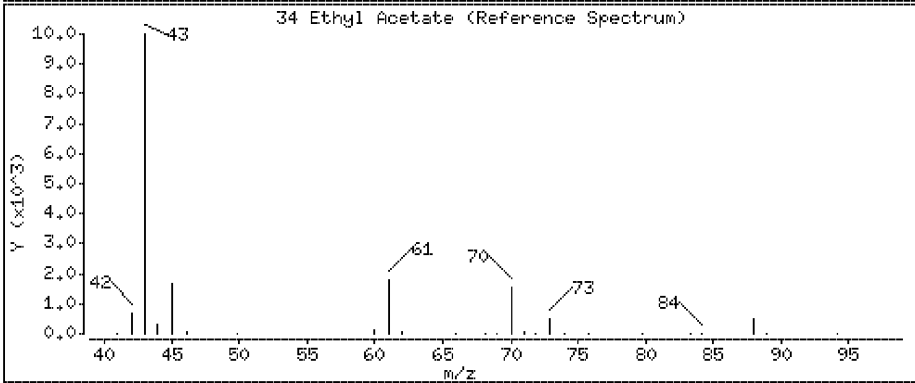
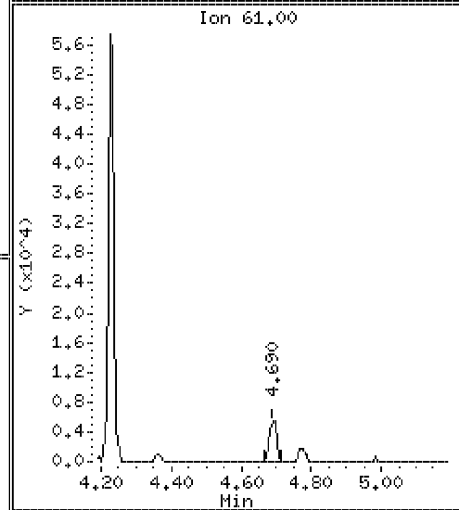
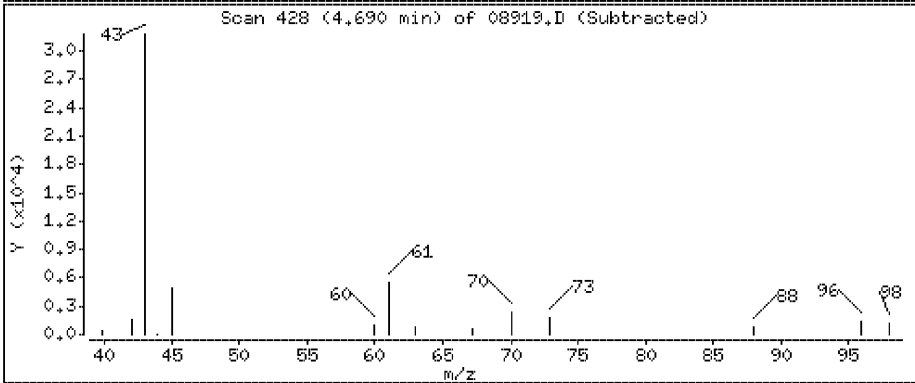
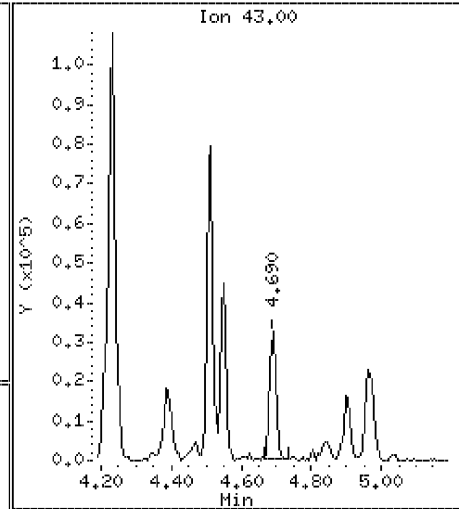
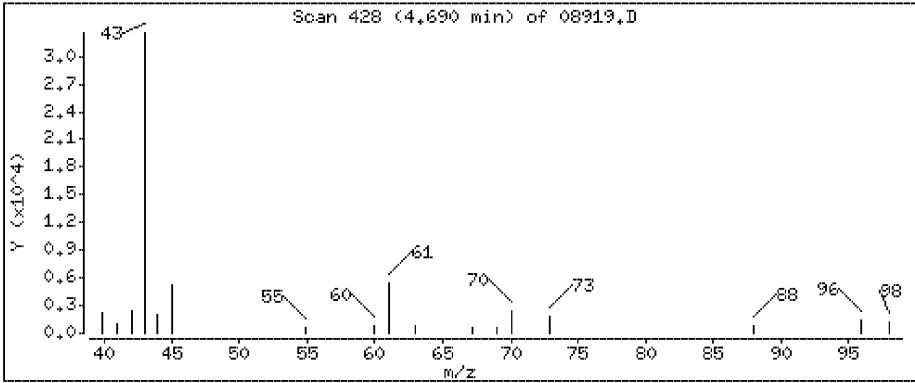
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

34 Ethyl Acetate

Concentration: 0.418 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

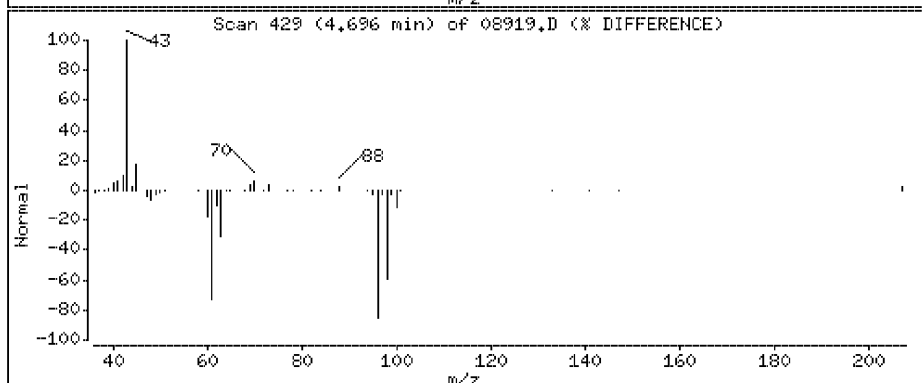
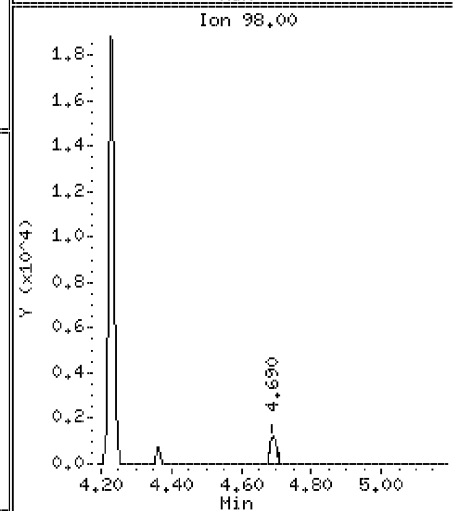
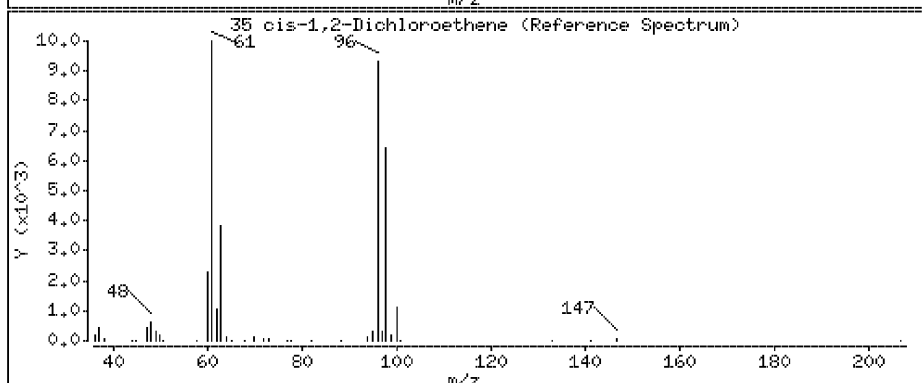
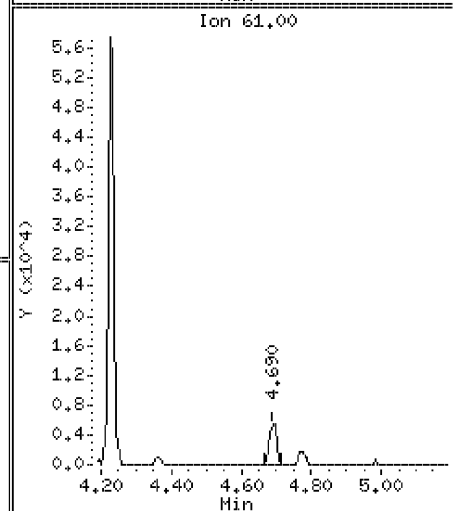
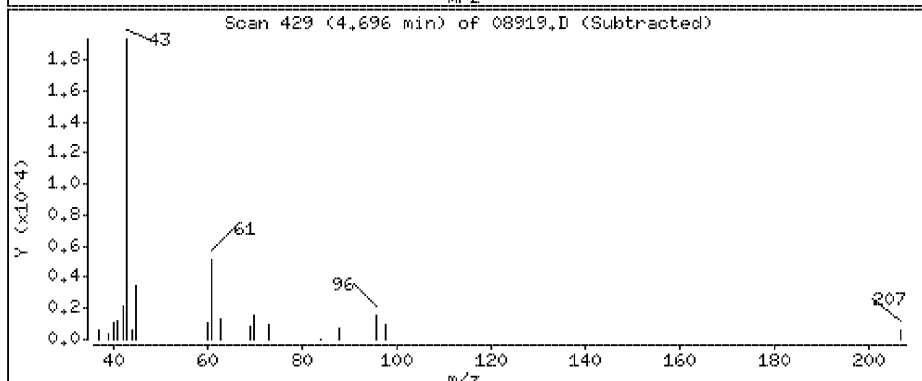
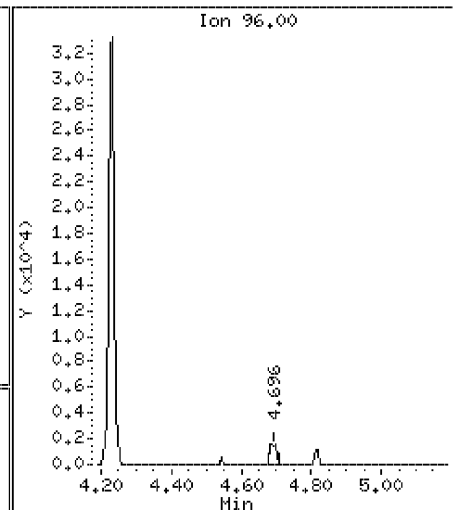
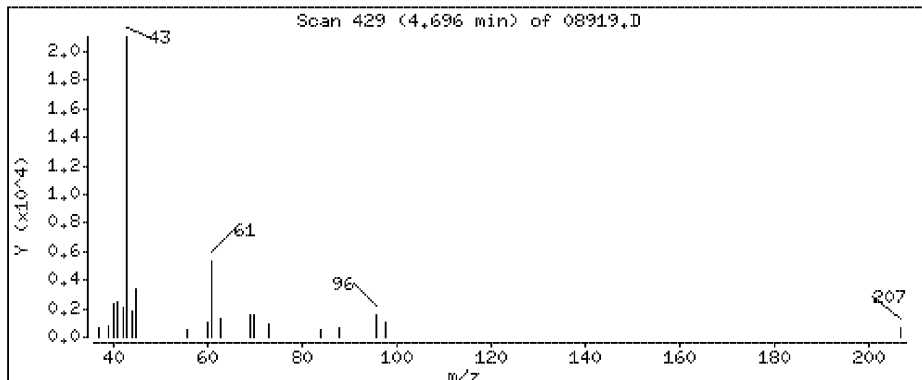
Operator: MJL

Column phase: DB-5 SN:USD449717H

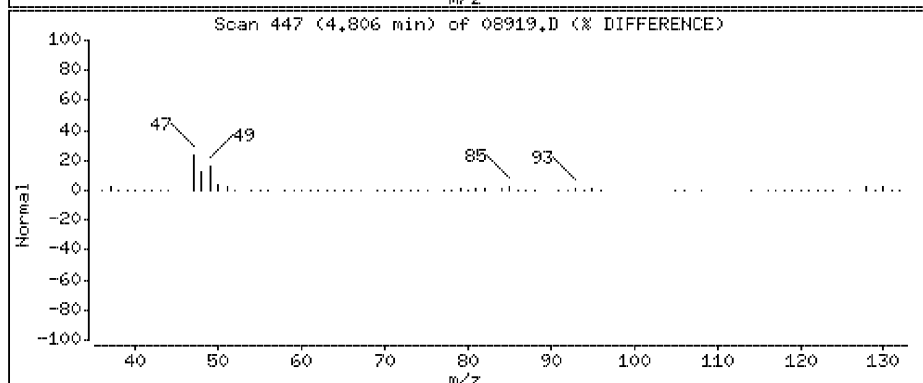
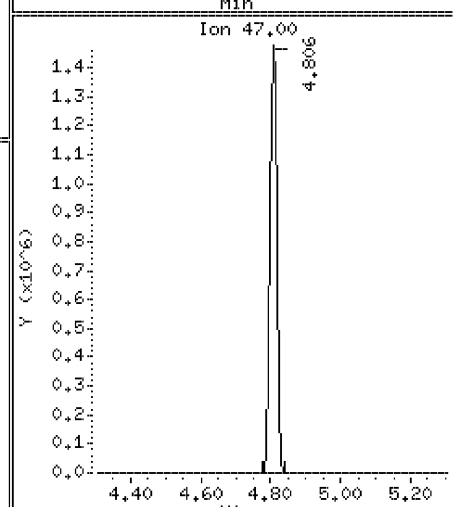
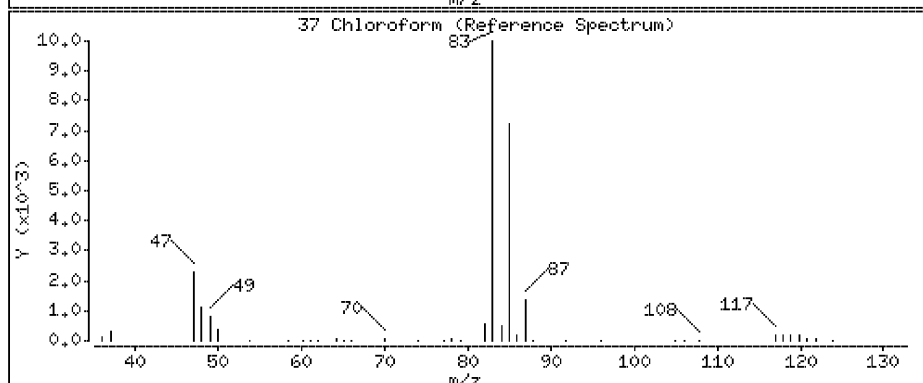
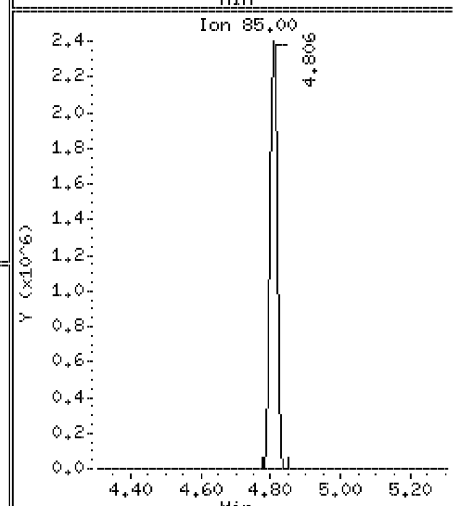
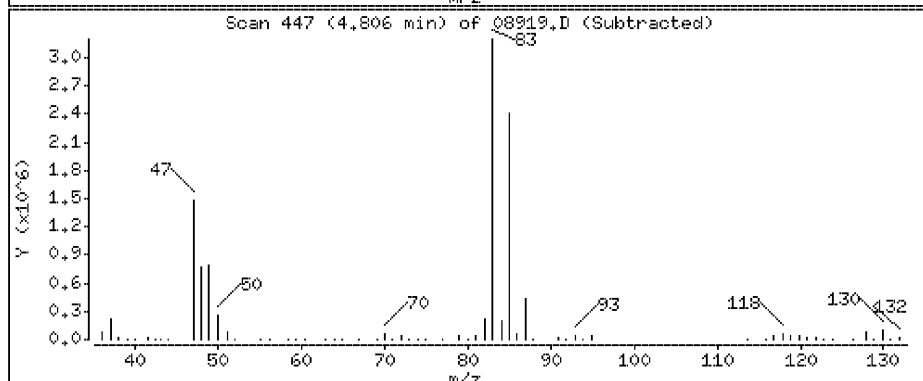
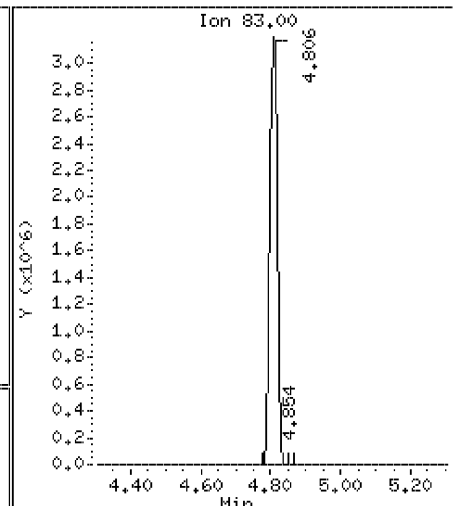
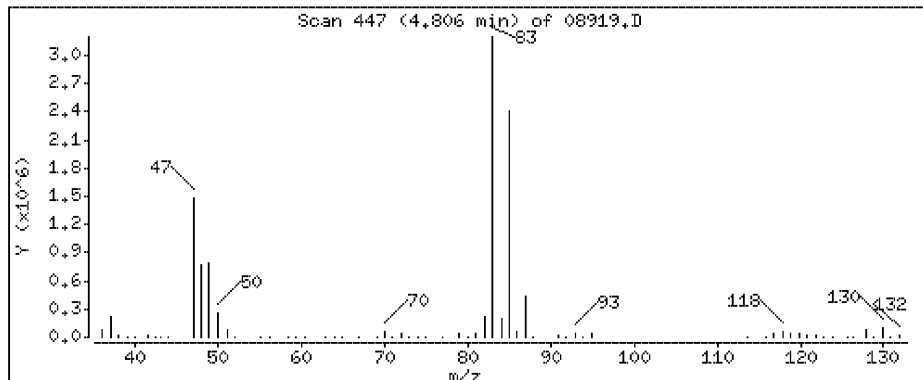
Column diameter: 0.32

35 cis-1,2-Dichloroethene

Concentration: 0.0647 ppbv



37 Chloroform



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

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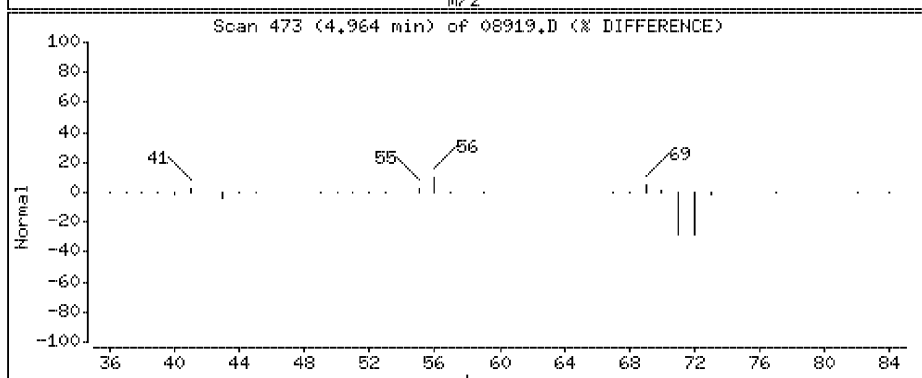
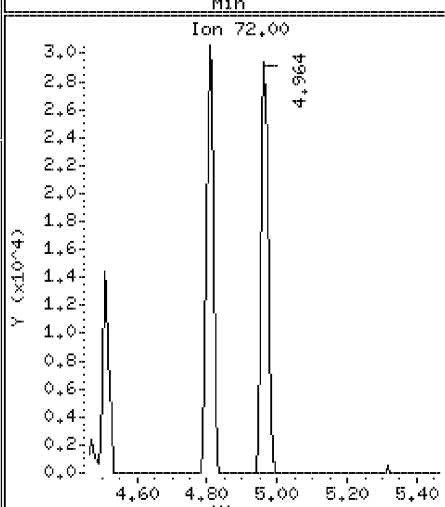
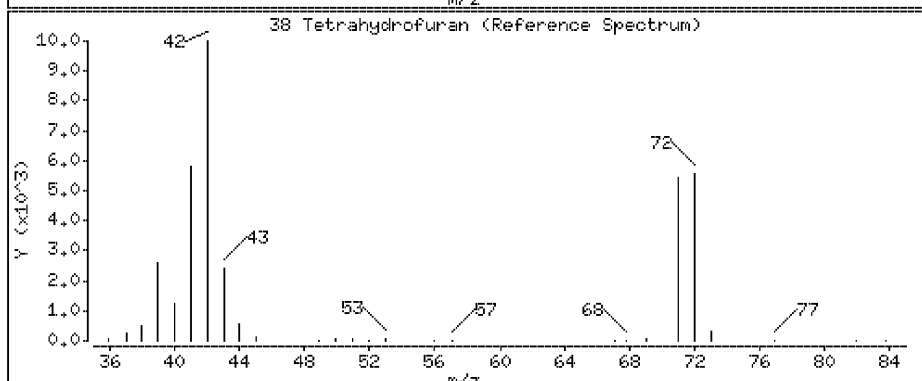
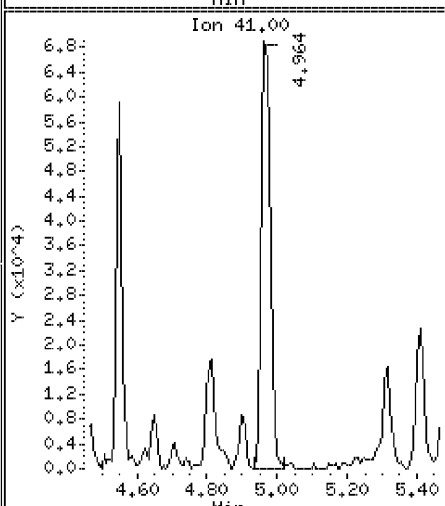
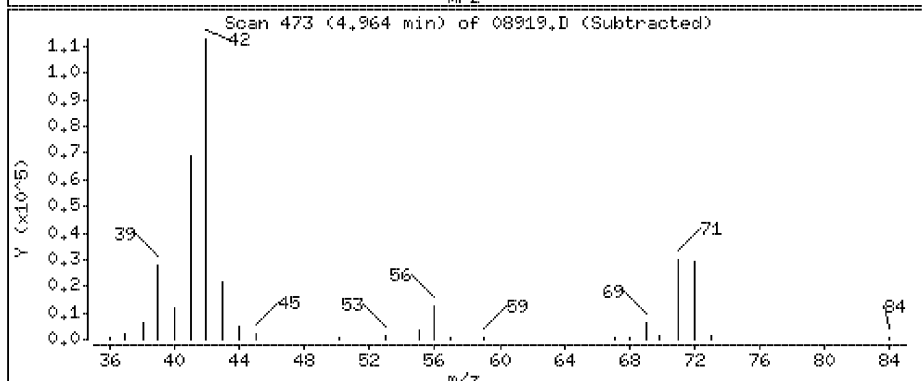
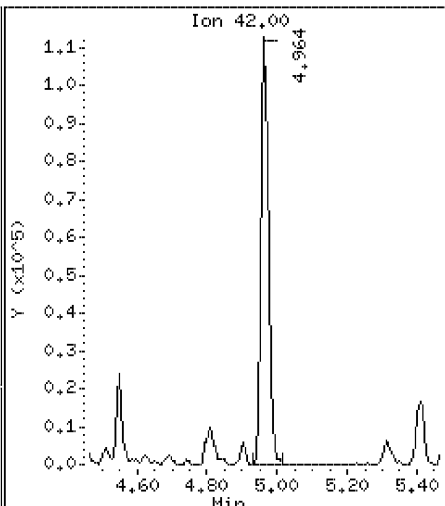
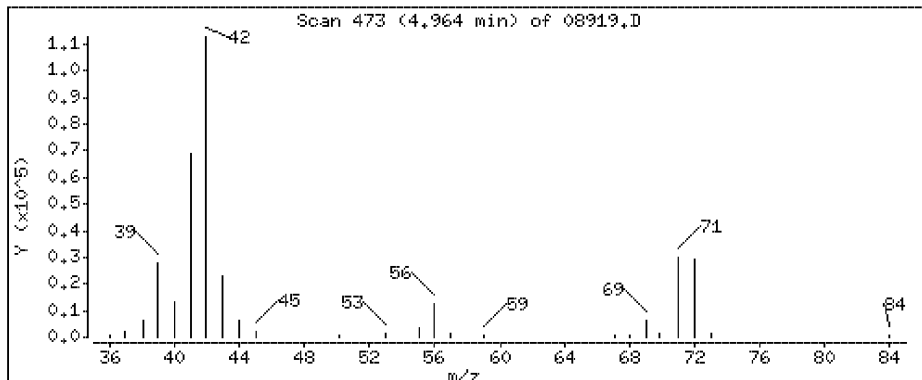
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

38 Tetrahydrofuran

Concentration: 3.89 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

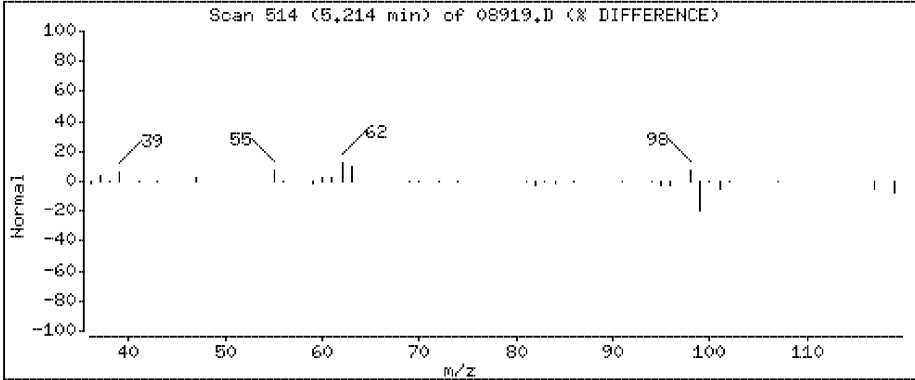
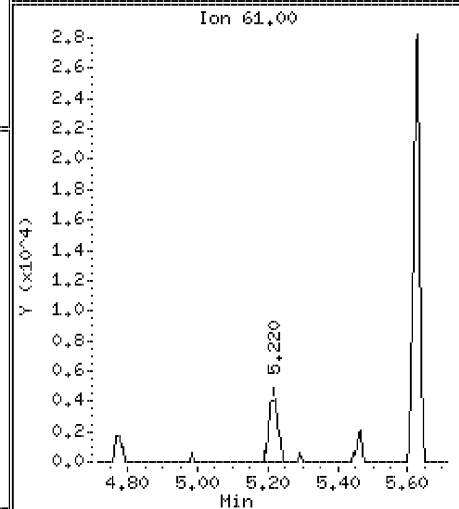
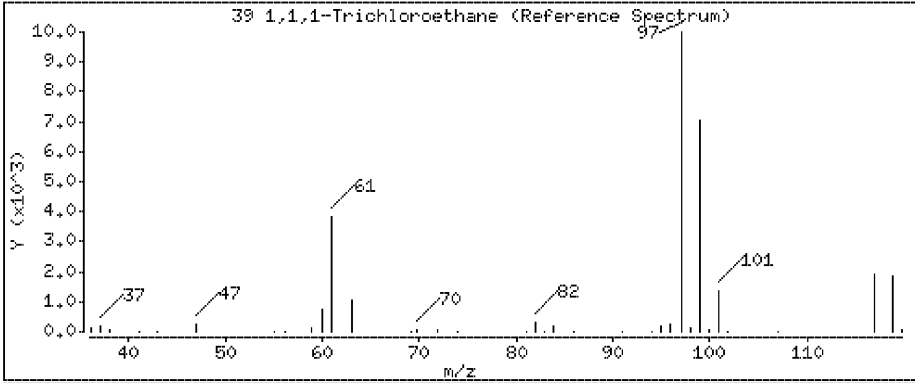
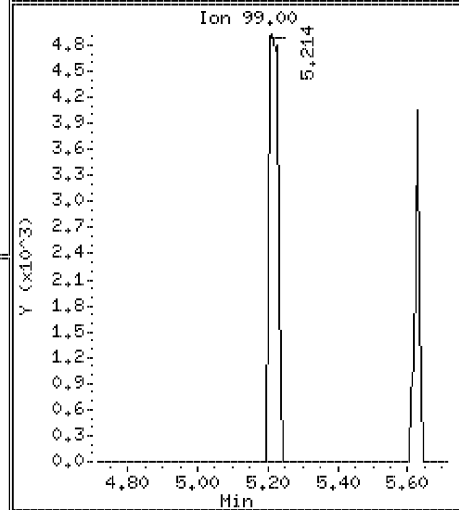
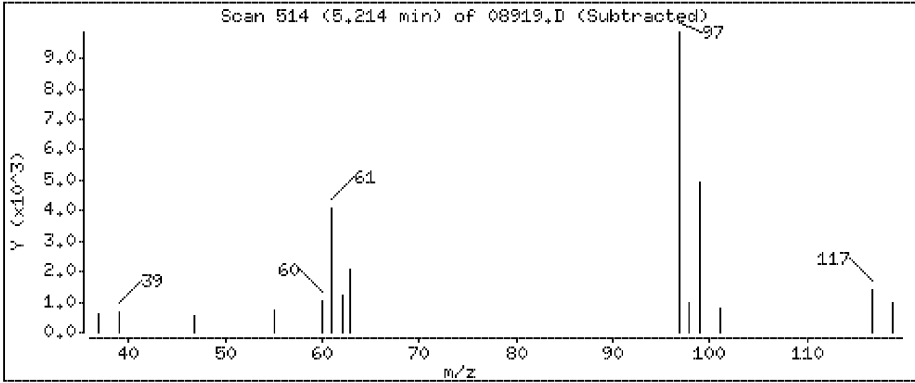
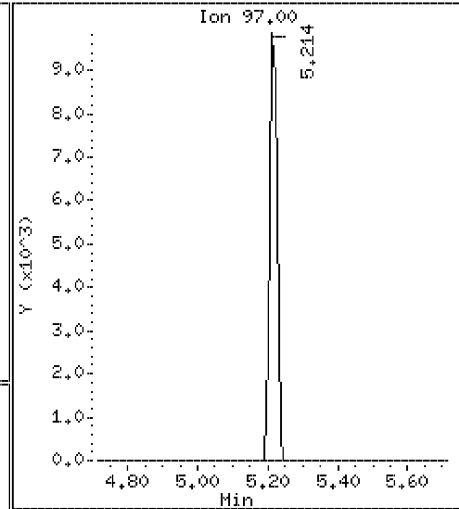
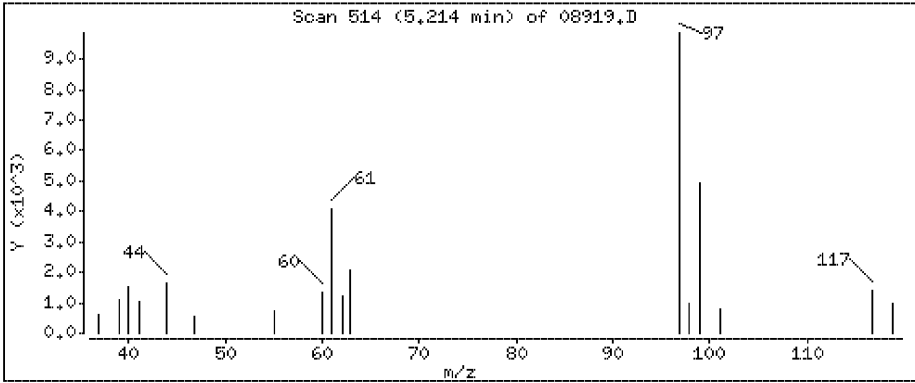
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

39 1,1,1-Trichloroethane

Concentration: 0,210 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

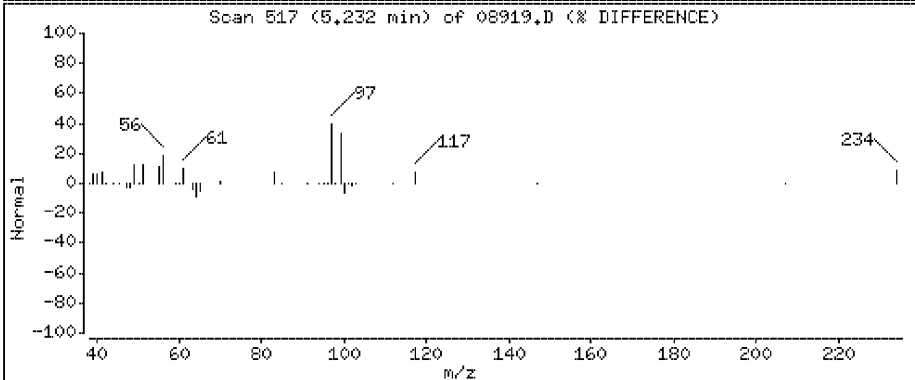
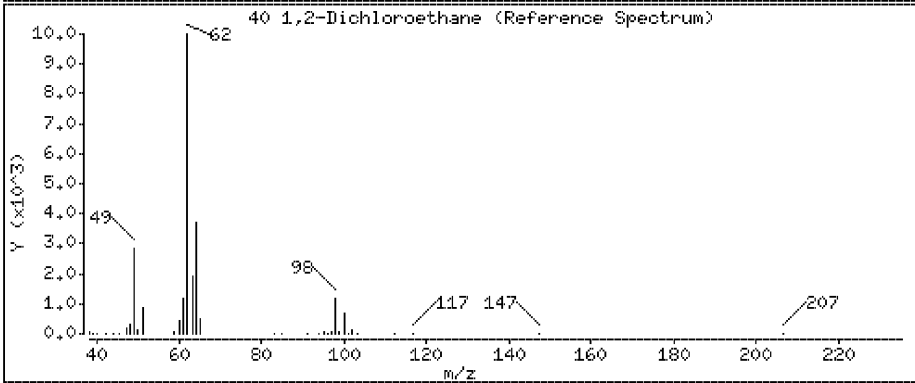
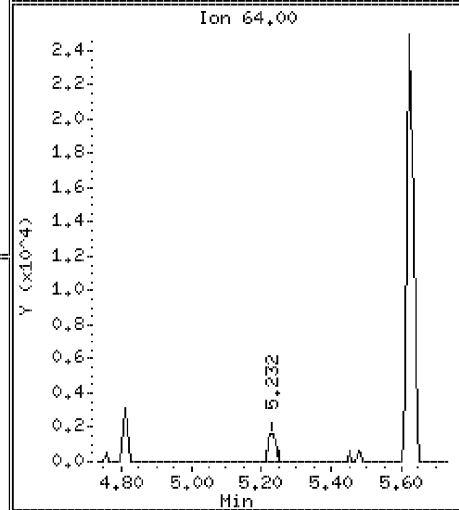
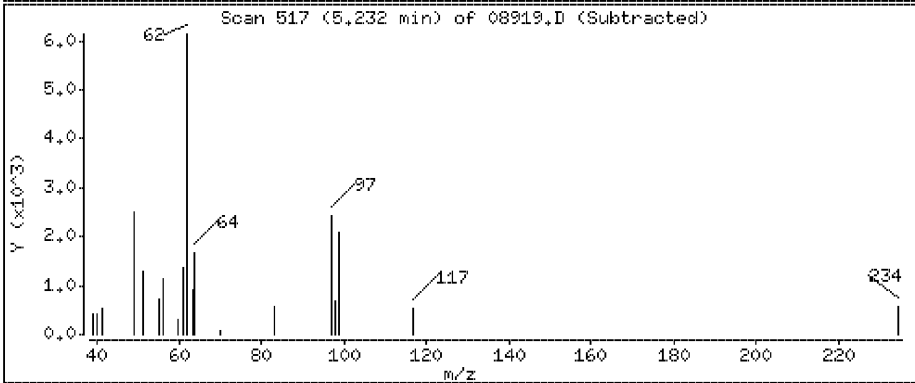
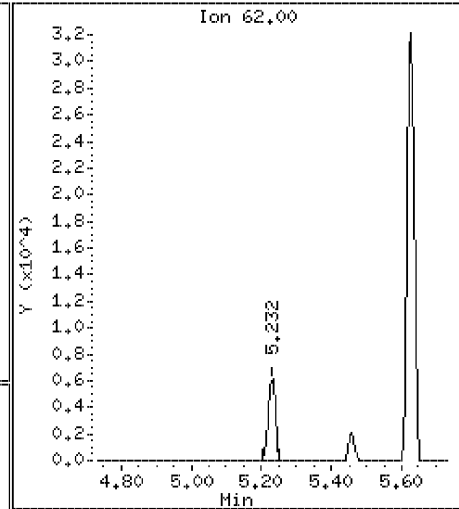
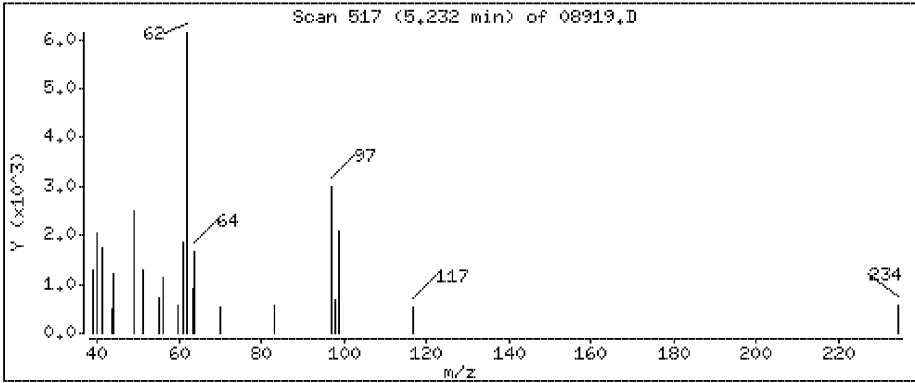
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

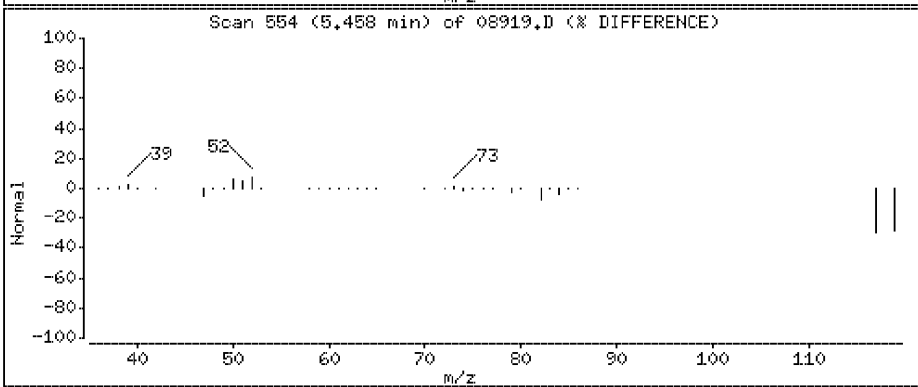
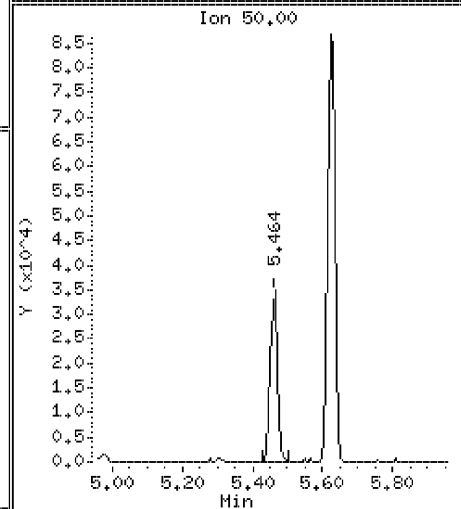
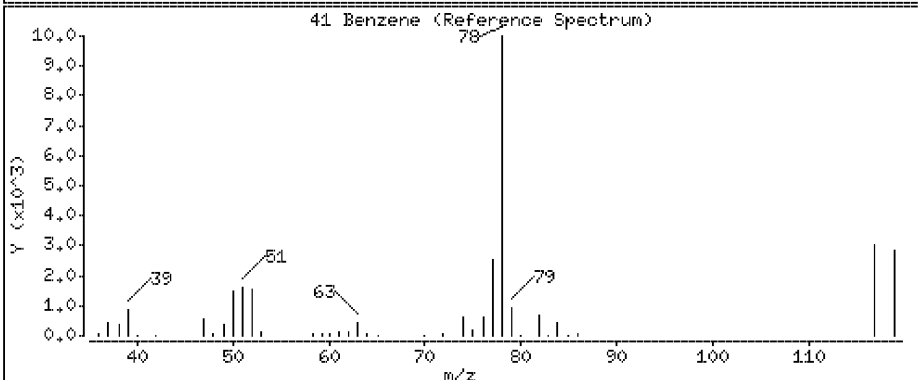
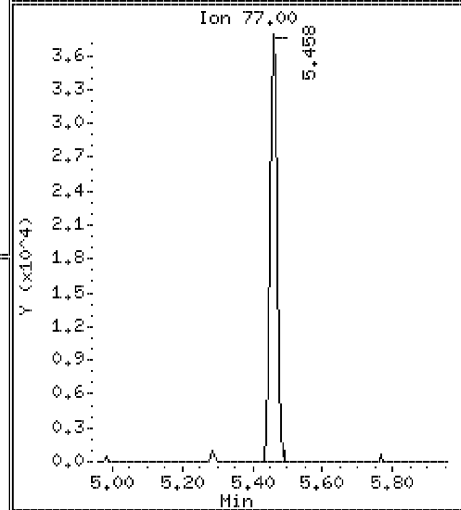
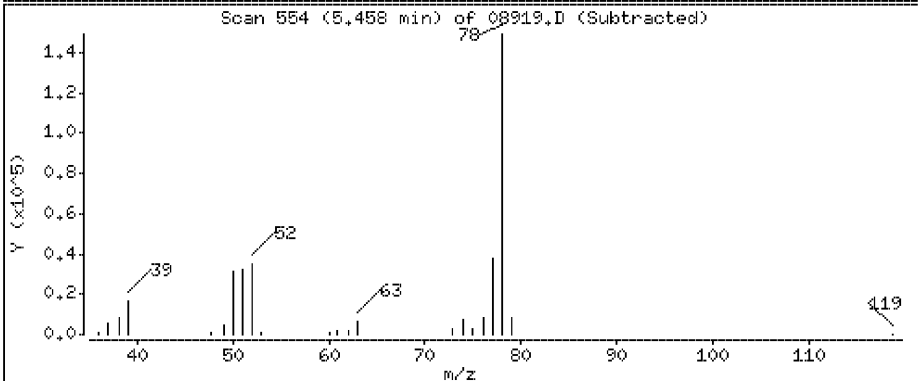
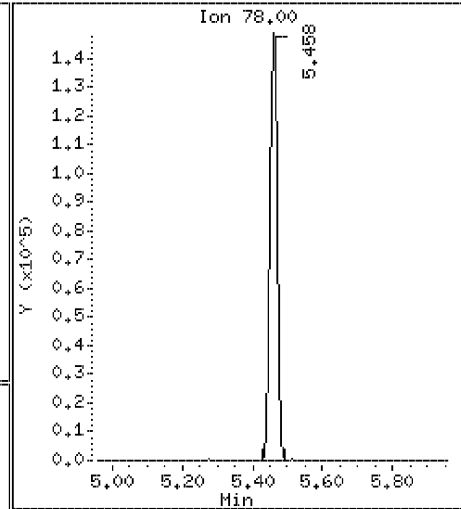
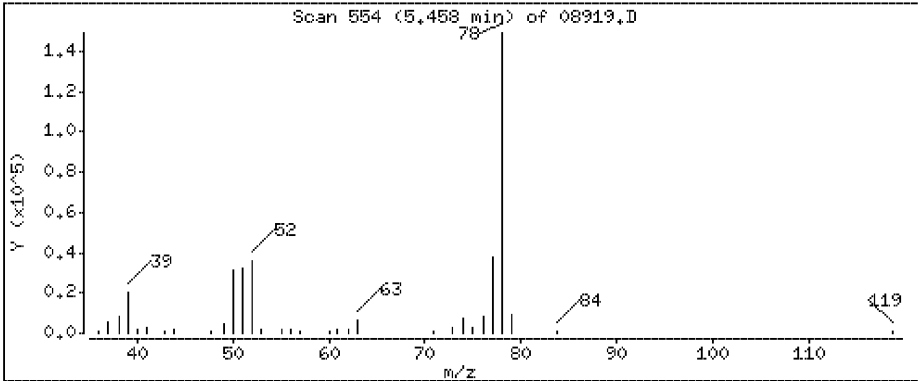
40 1,2-Dichloroethane

Concentration: 0,153 ppbv



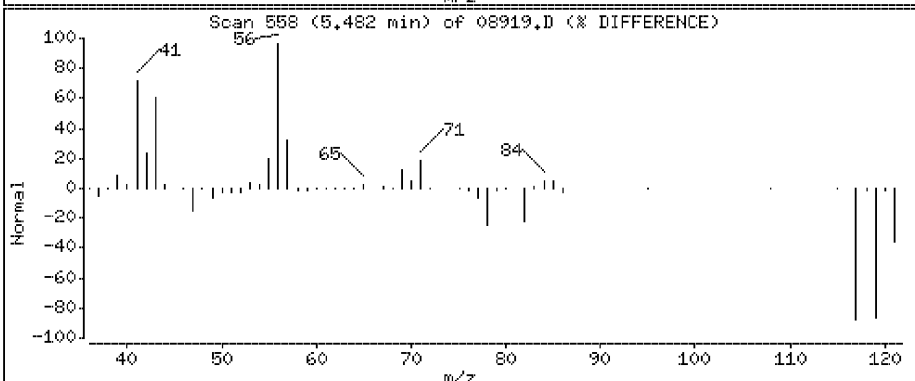
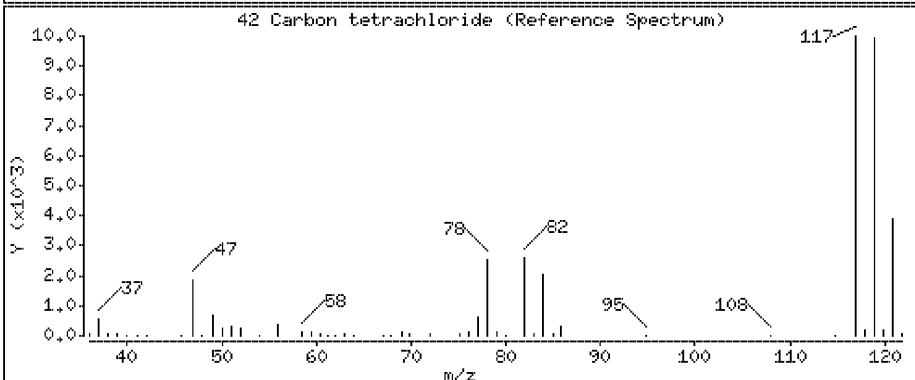
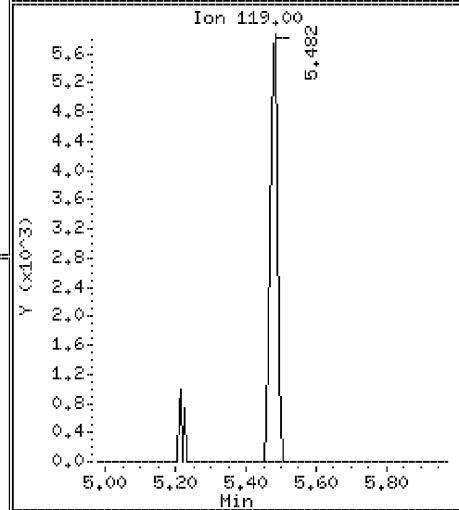
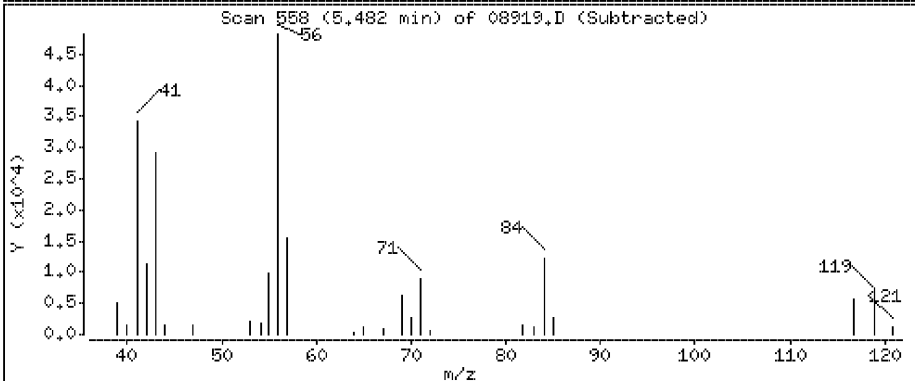
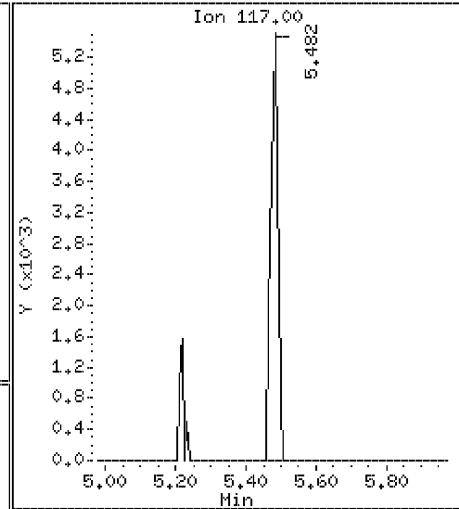
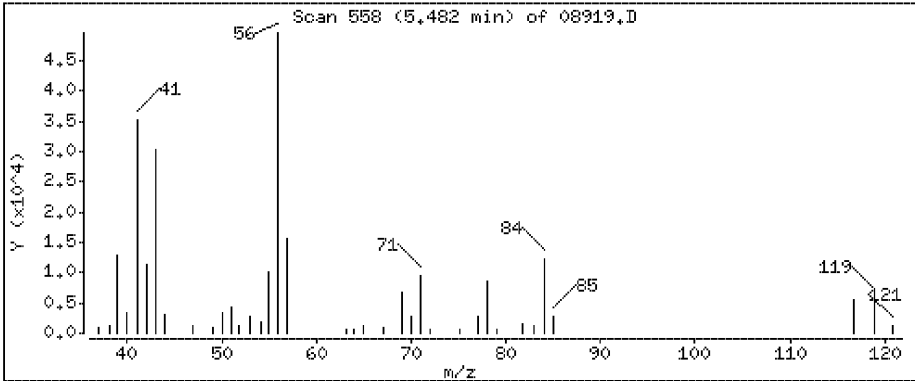
41 Benzene

Concentration: 2.52 ppbv



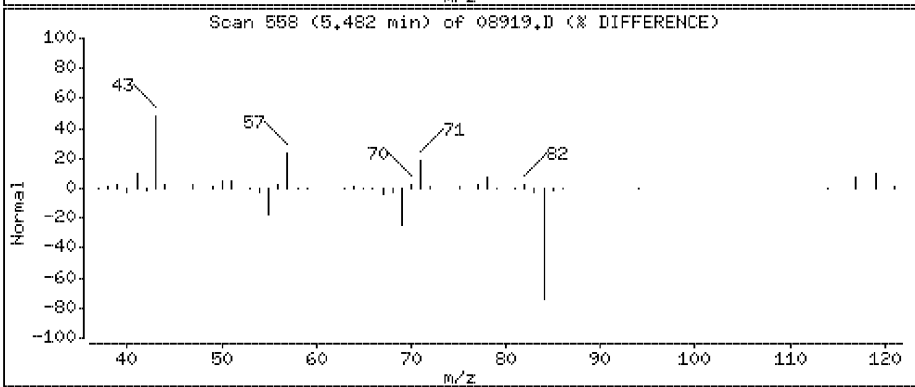
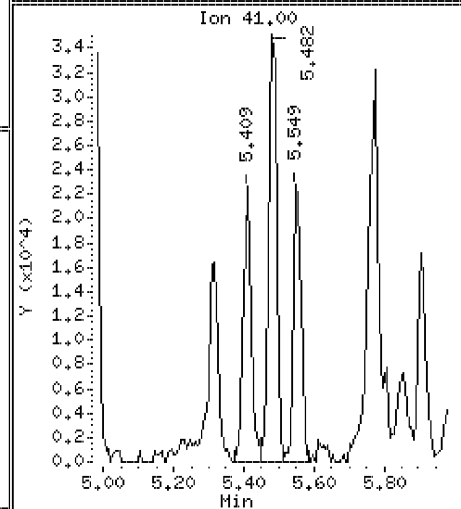
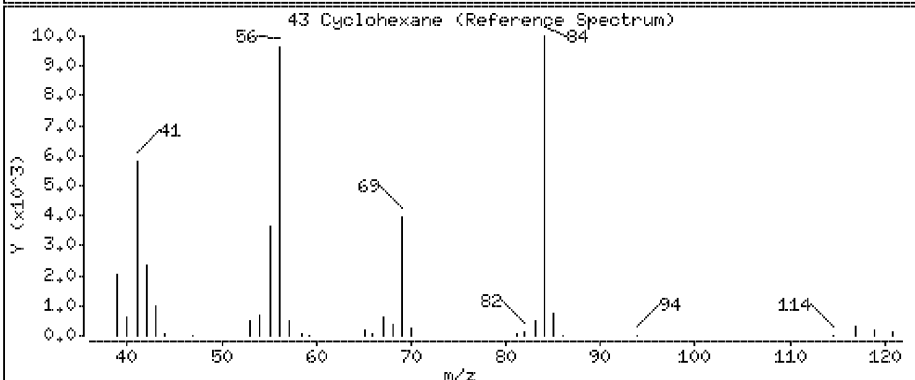
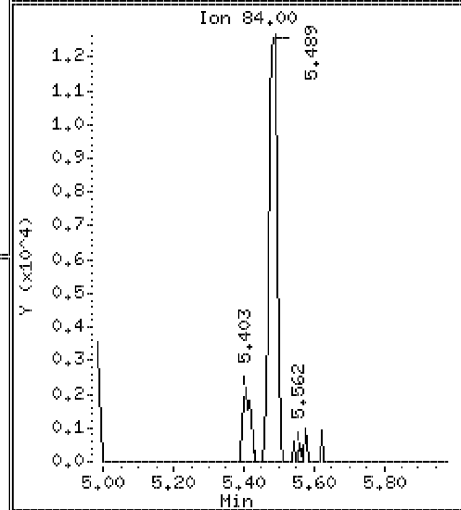
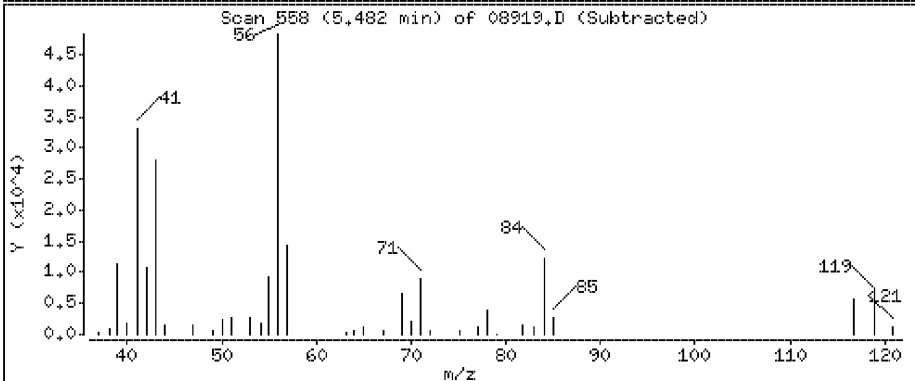
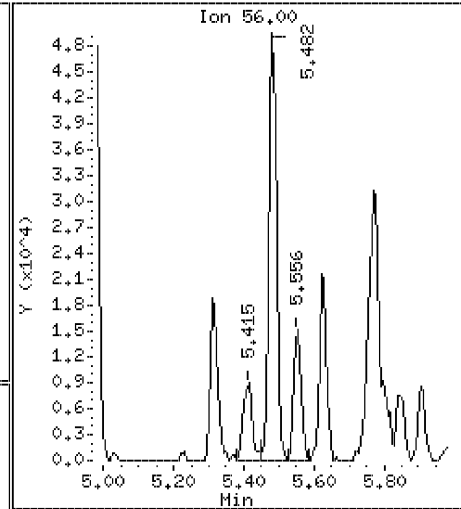
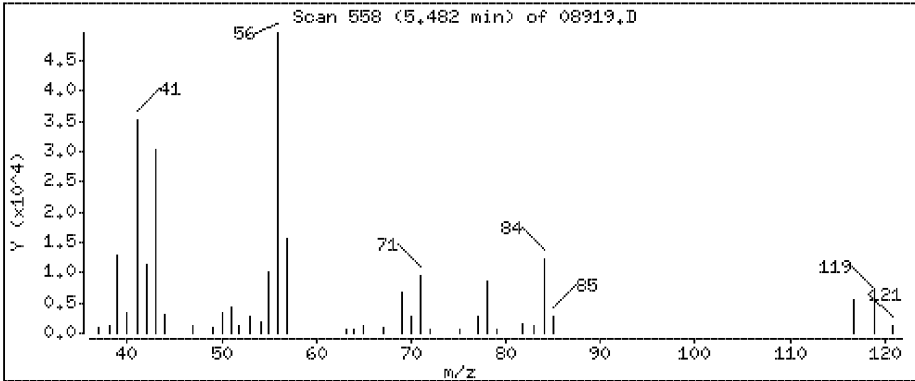
42 Carbon tetrachloride

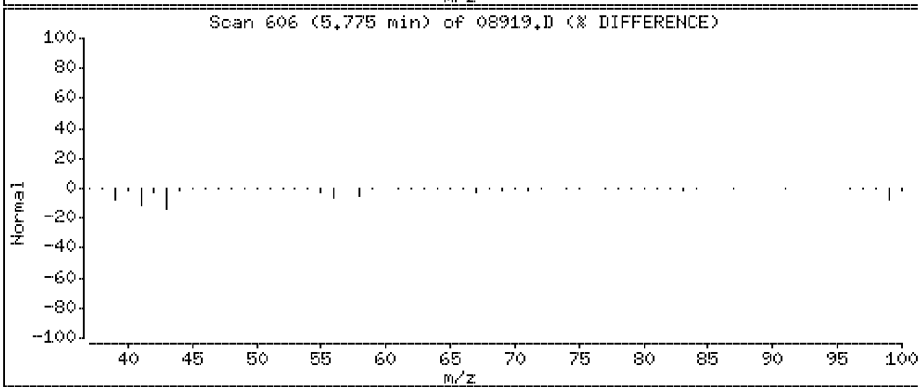
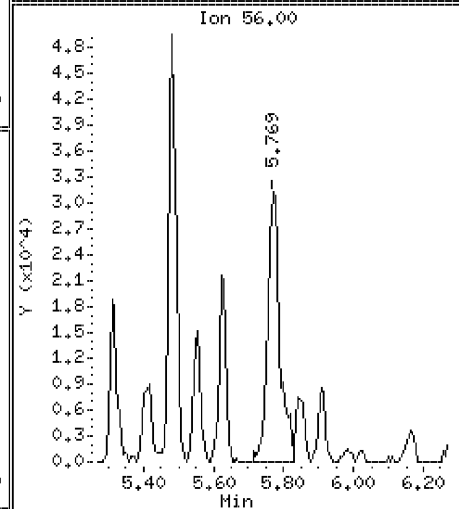
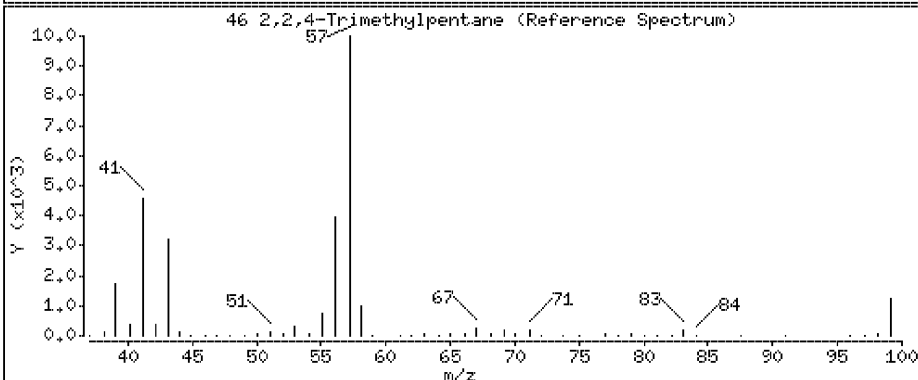
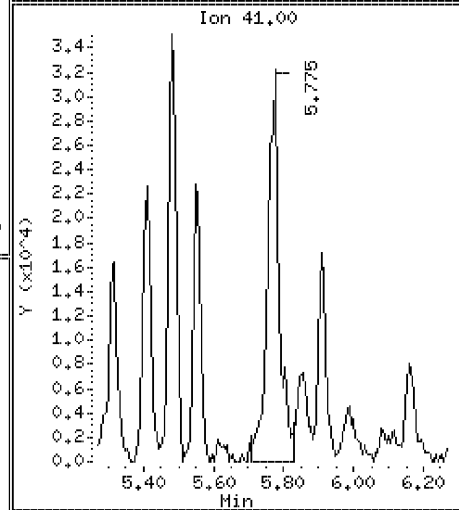
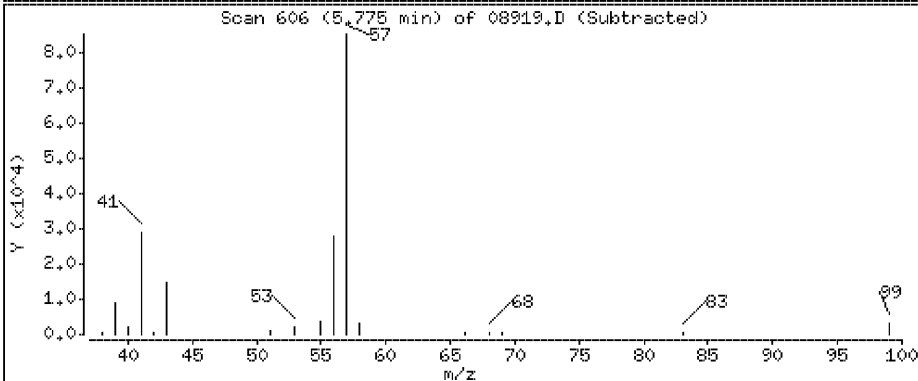
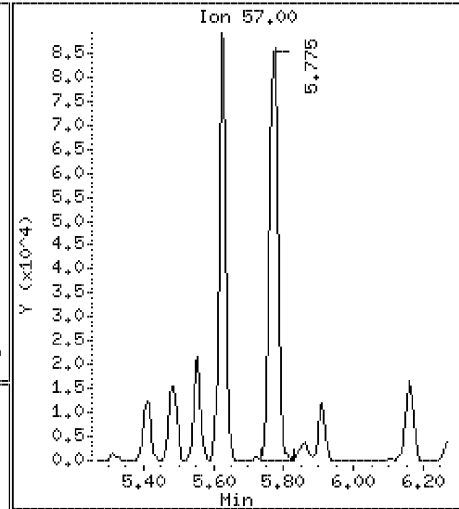
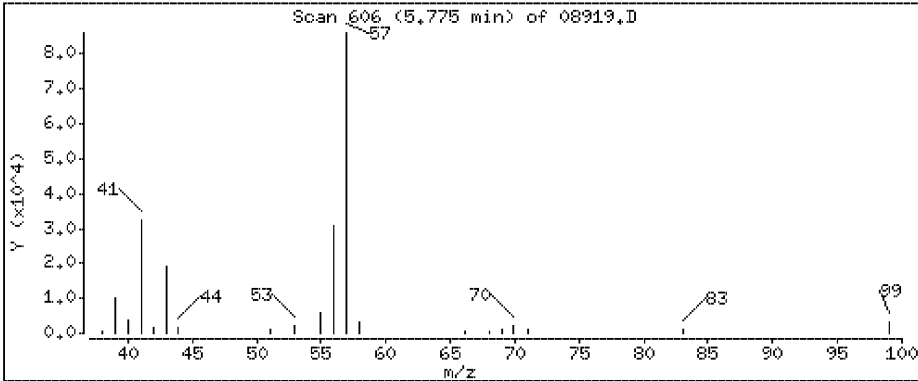
Concentration: 0.126 ppbv

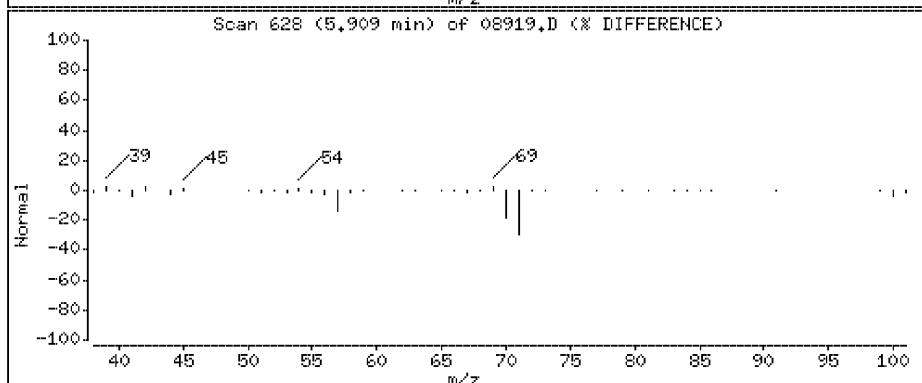
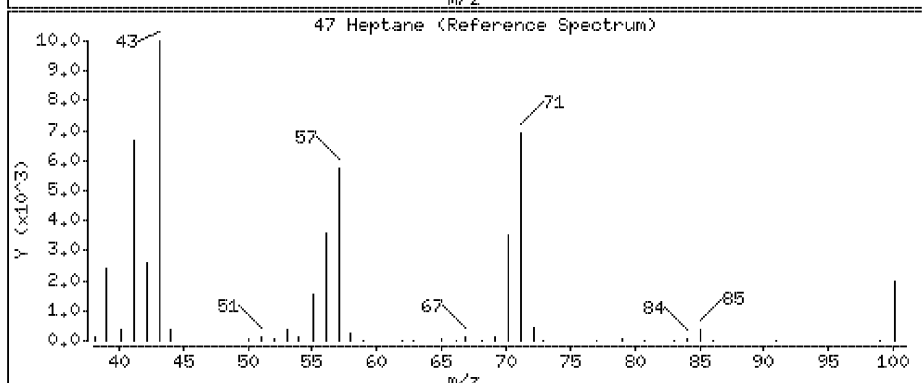
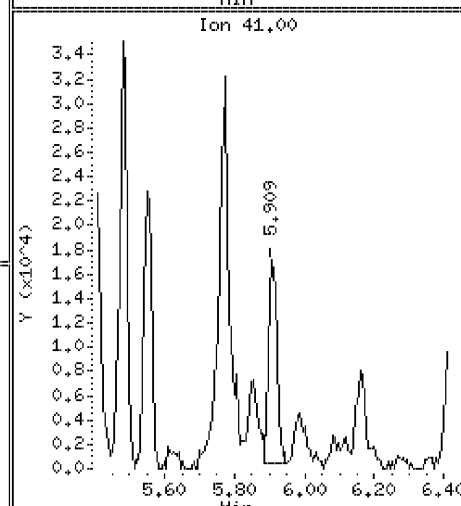
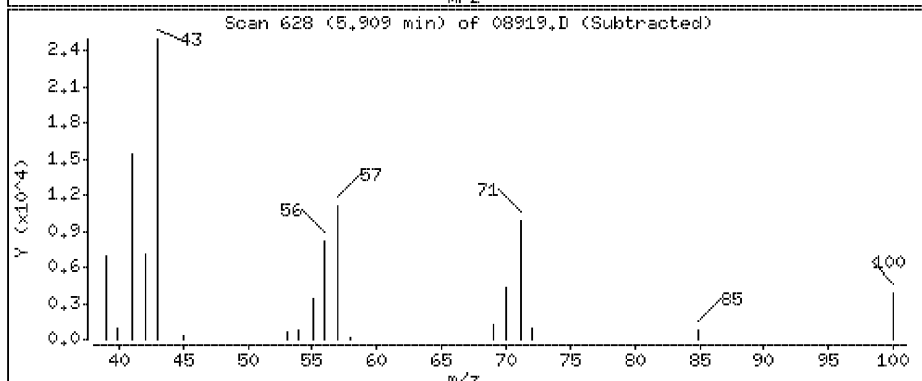
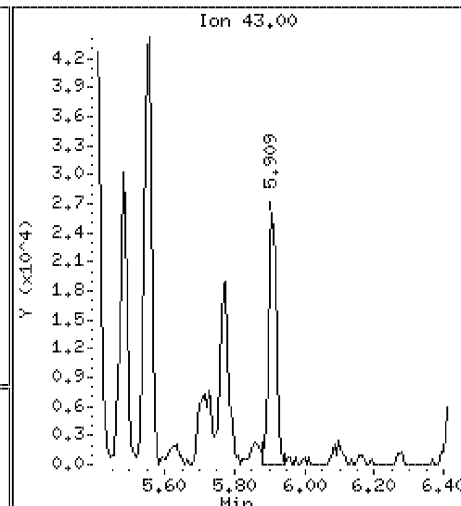
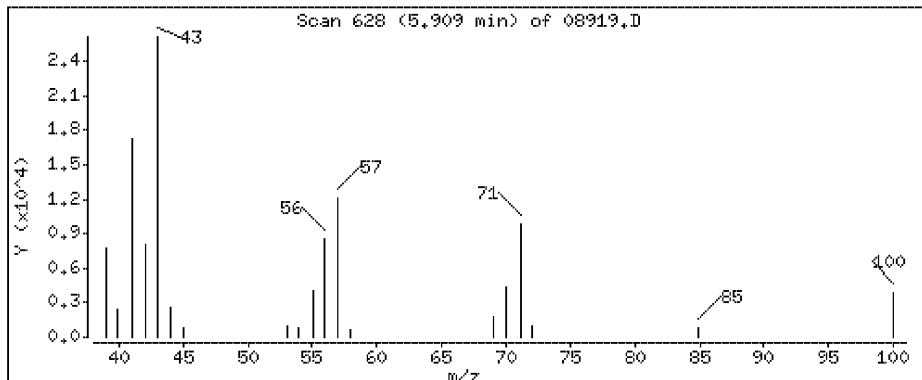


43 Cyclohexane

Concentration: 1.41 ppbv

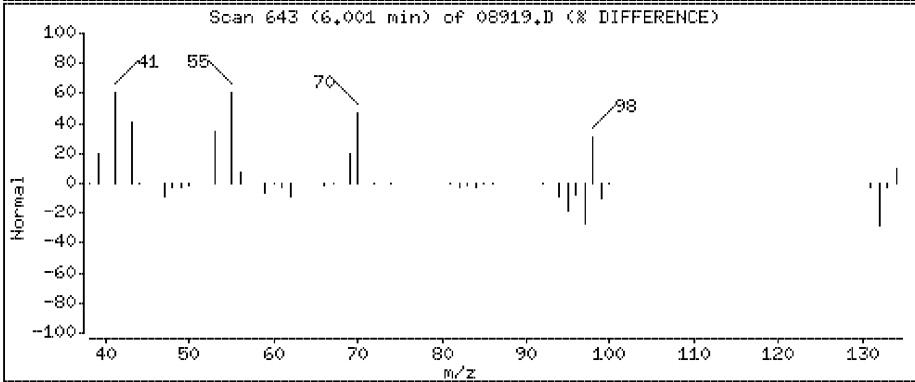
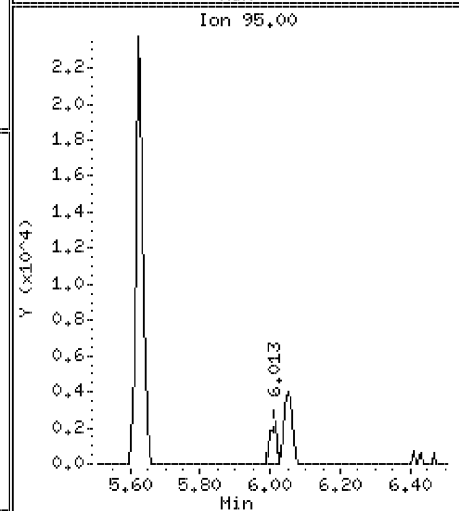
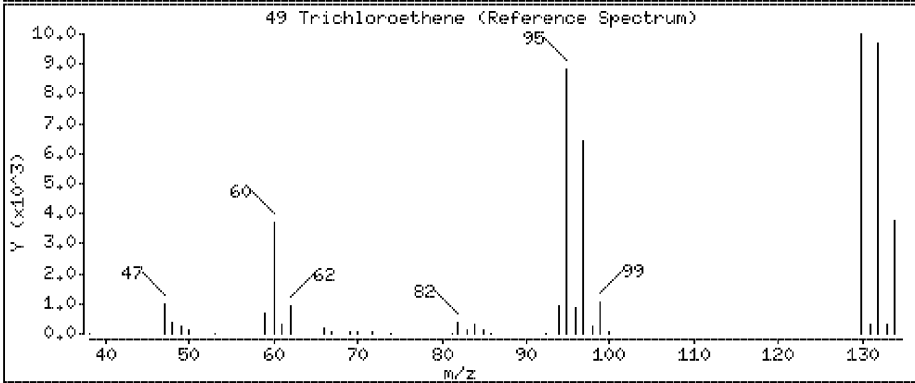
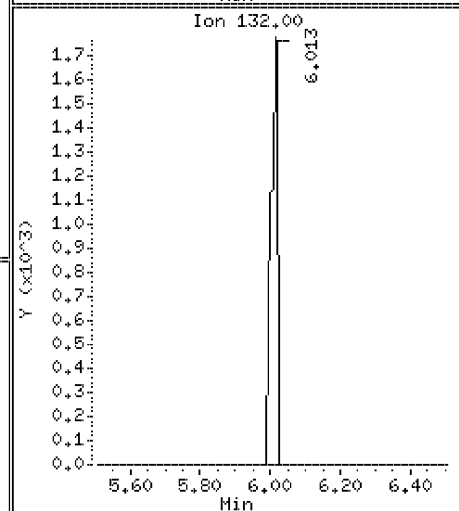
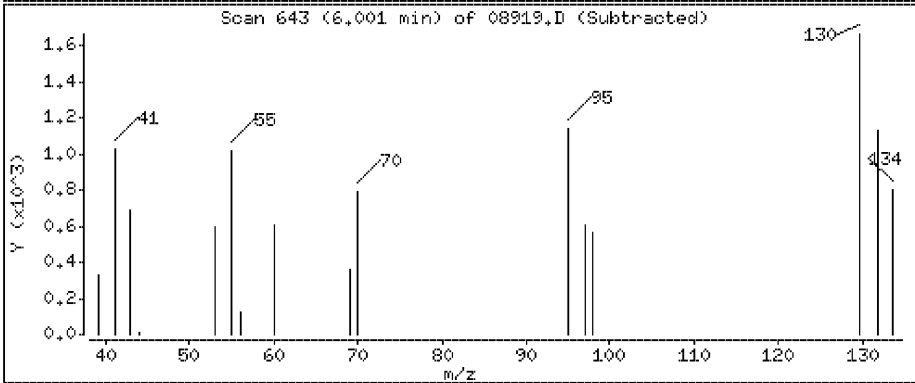
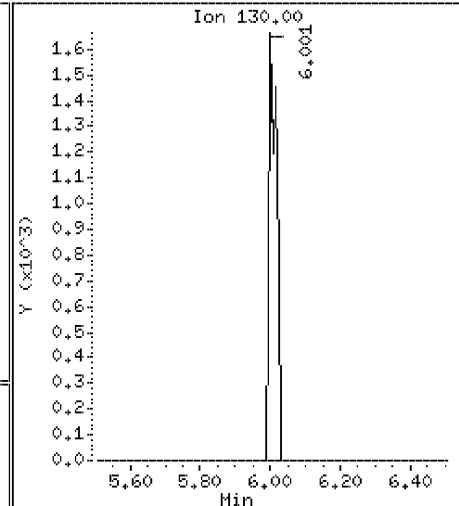
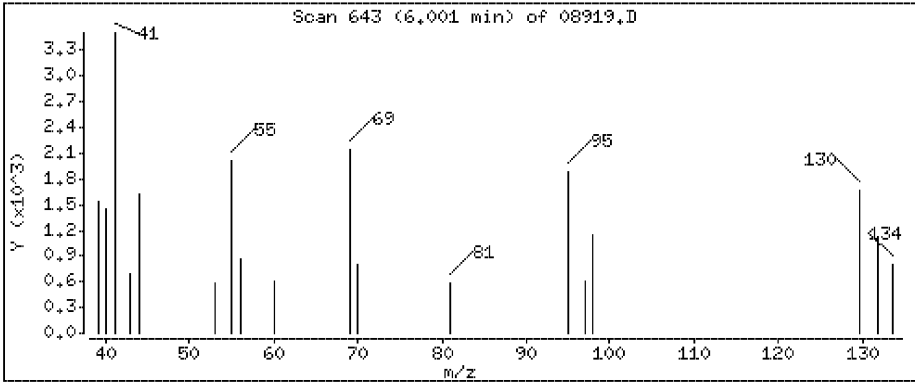






49 Trichloroethene

Concentration: 0.0718 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

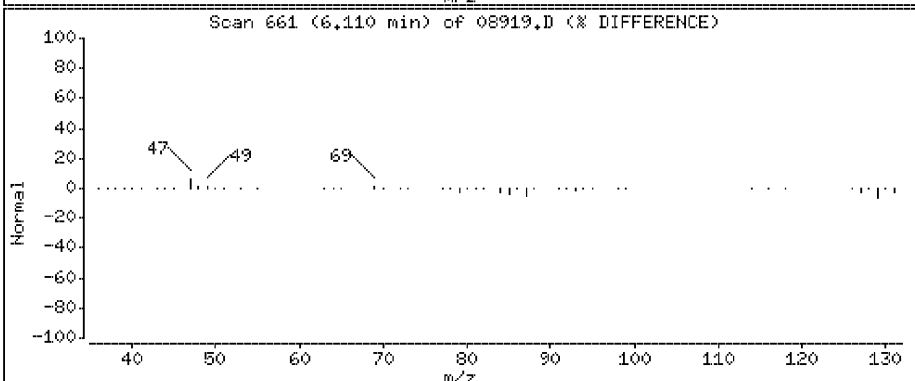
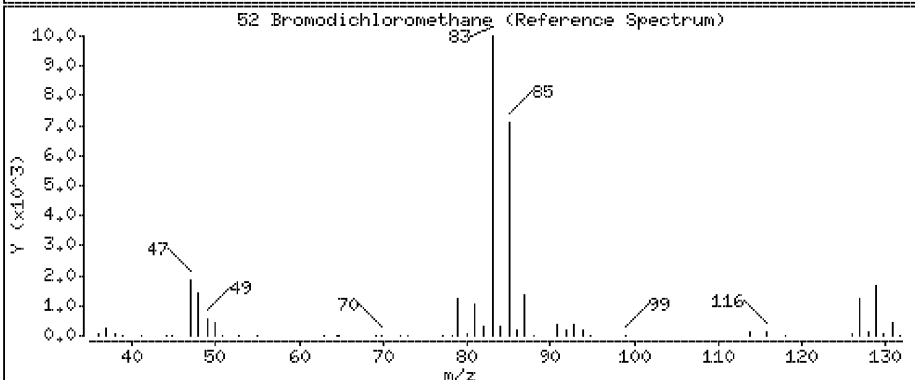
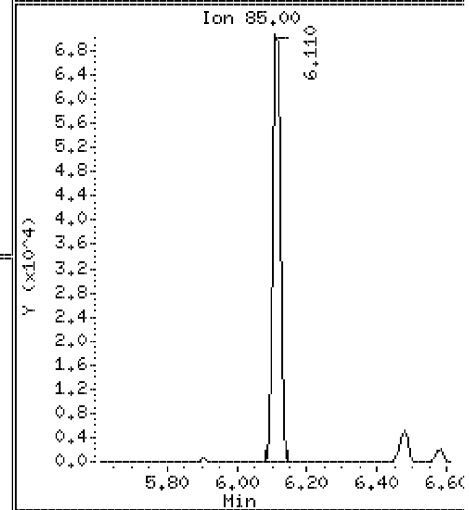
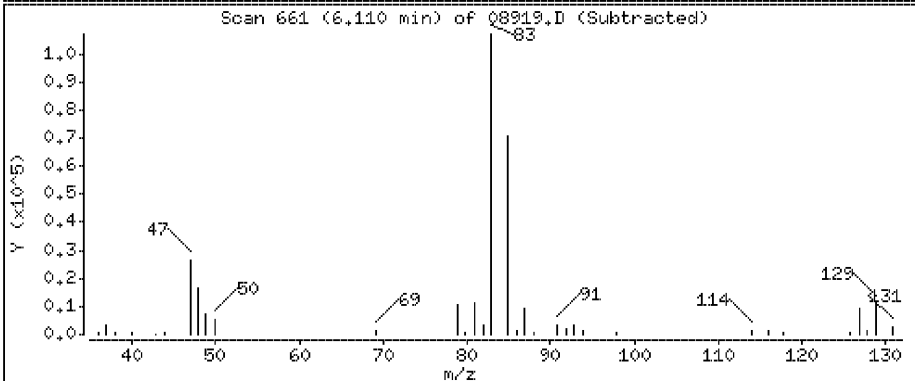
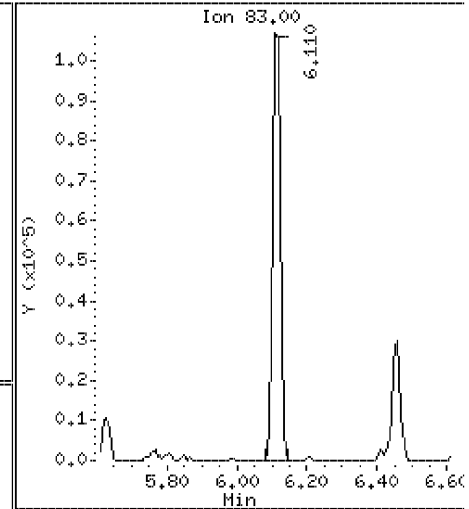
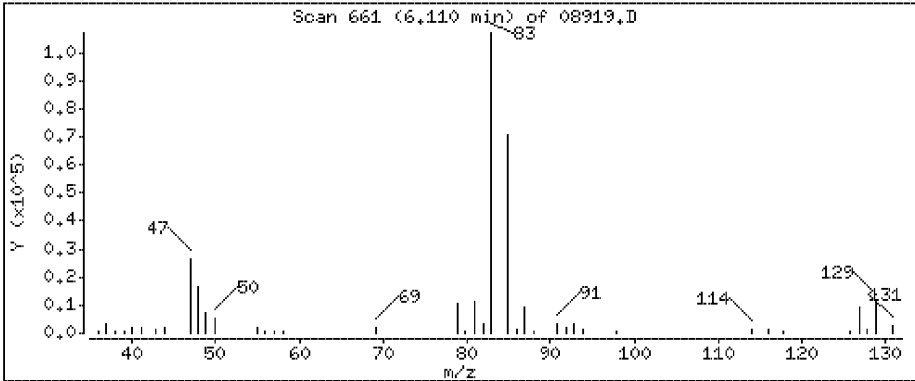
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

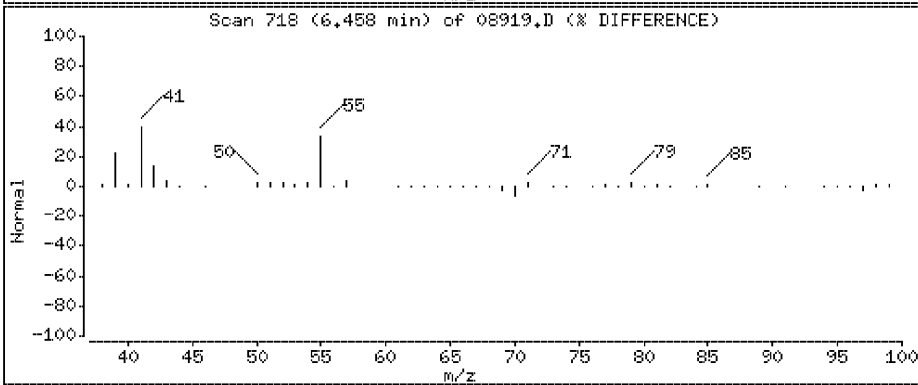
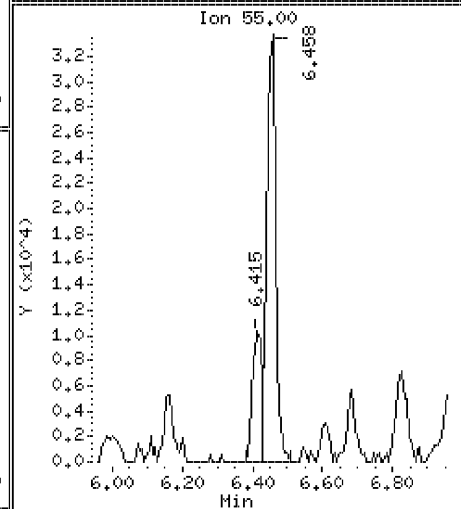
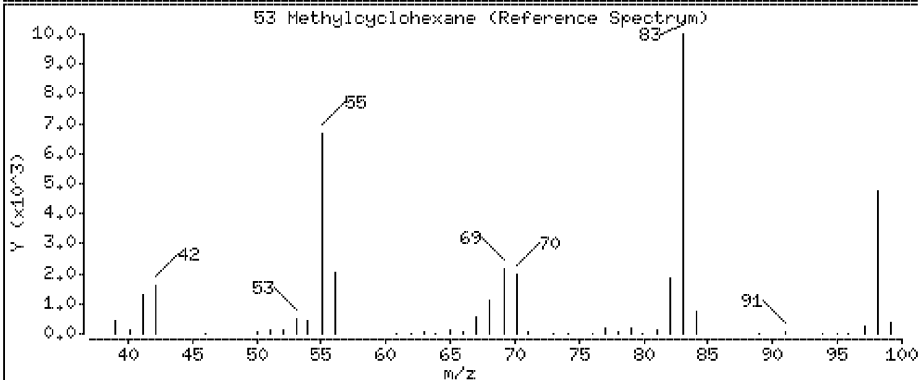
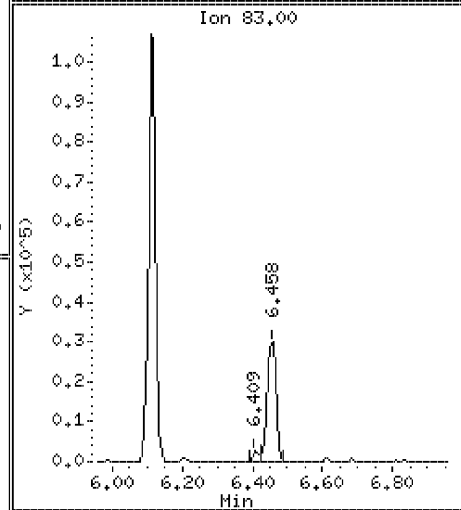
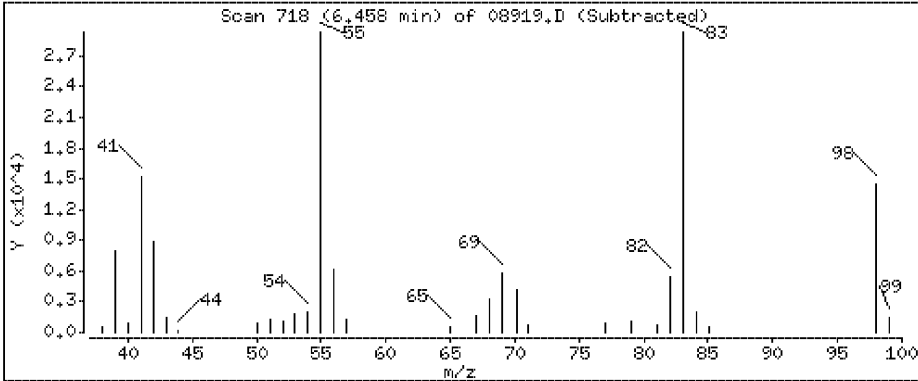
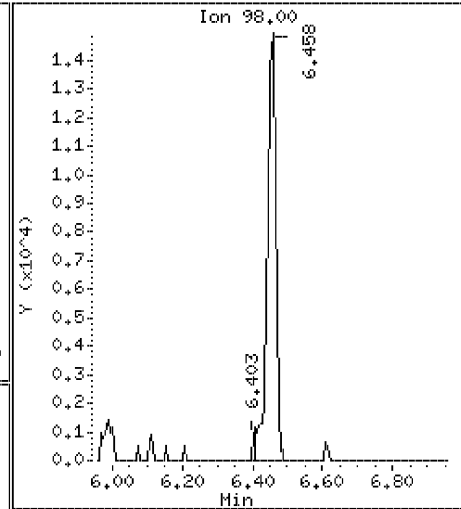
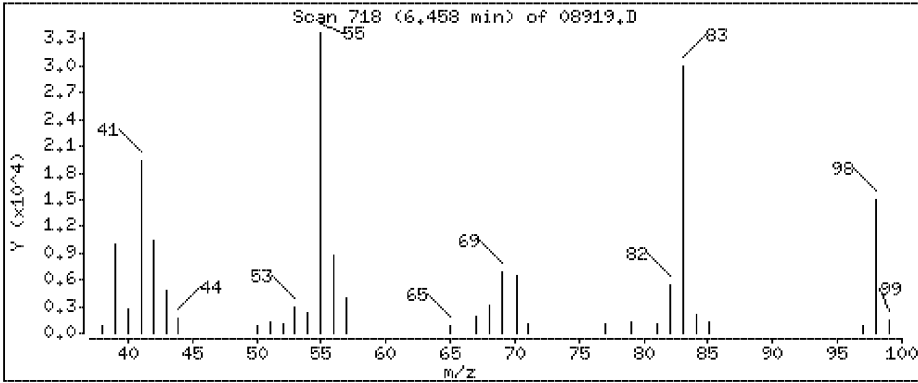
52 Bromodichloromethane

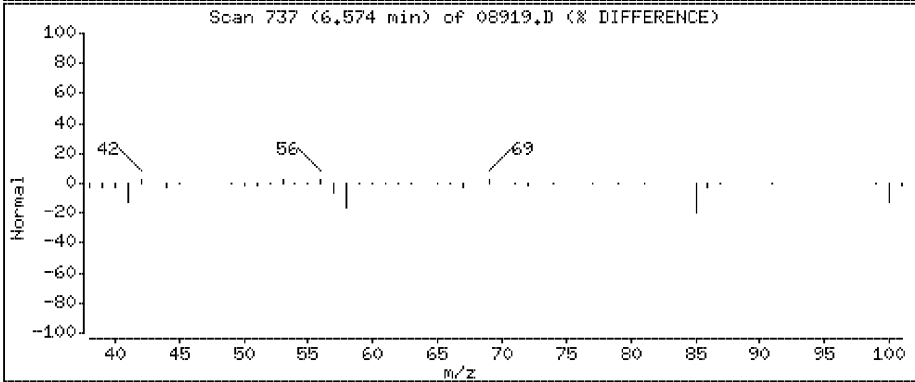
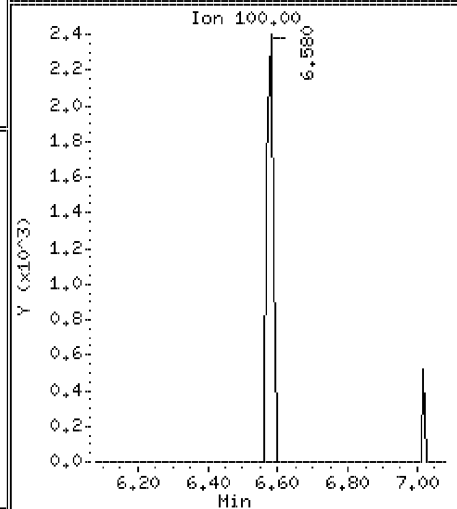
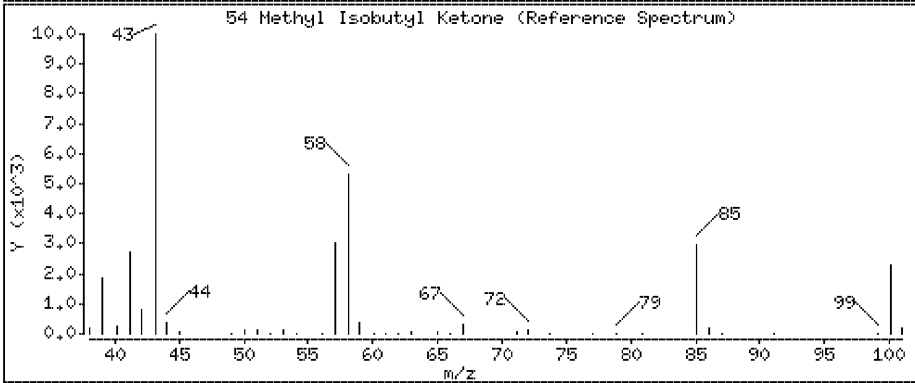
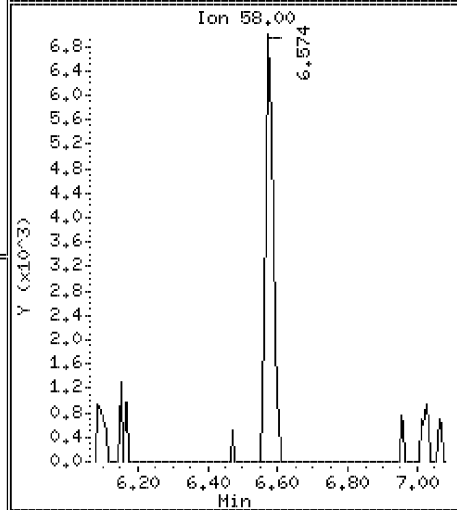
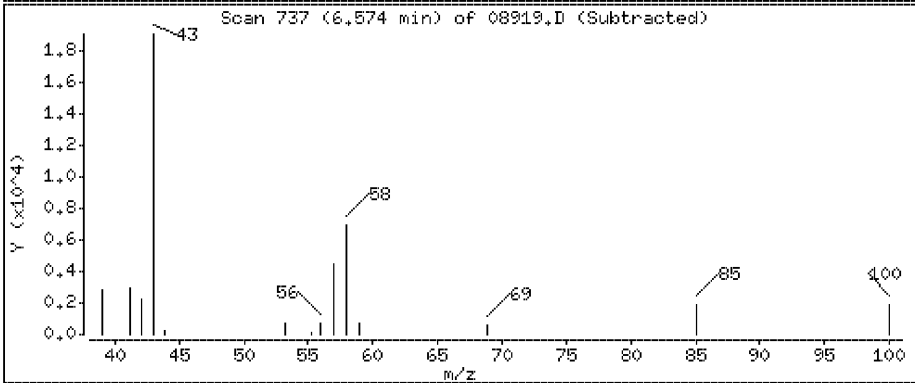
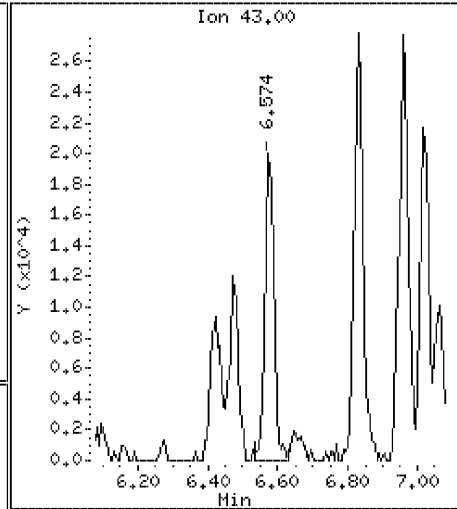
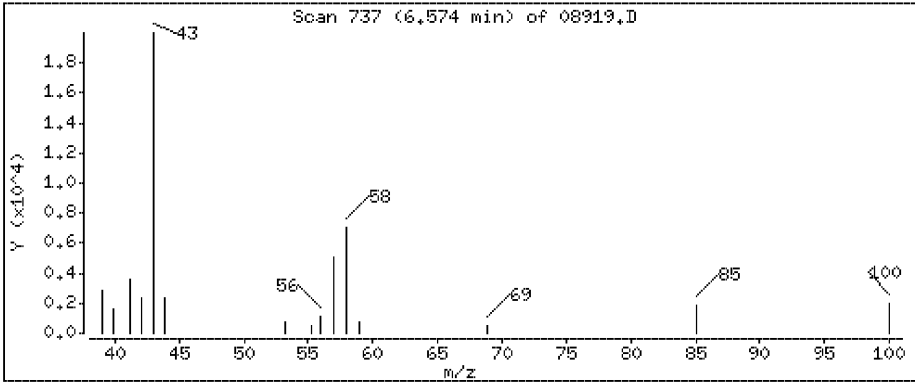
Concentration: 2.44 ppbv



53 Methylcyclohexane

Concentration: 1.13 ppbv





Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

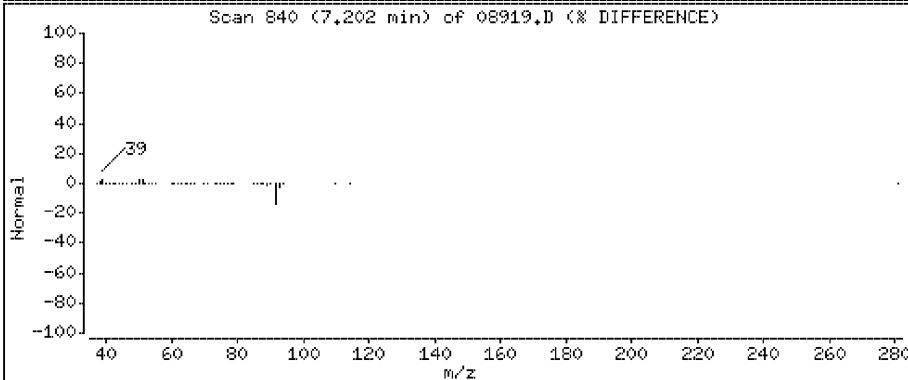
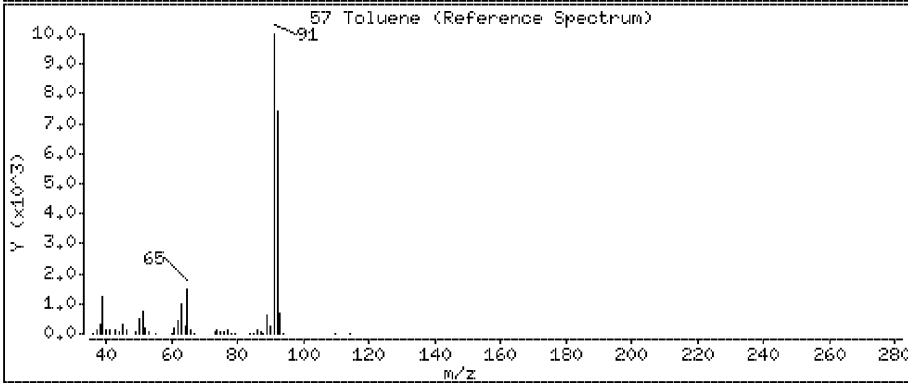
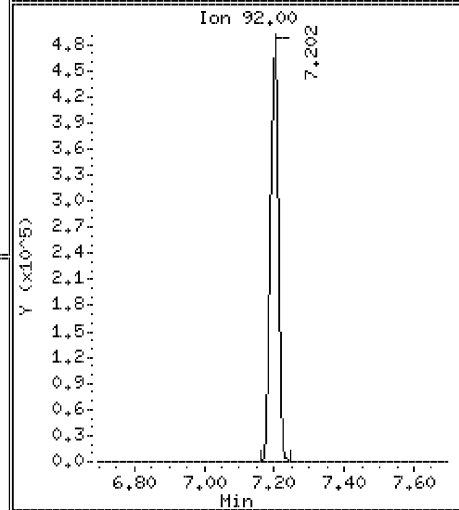
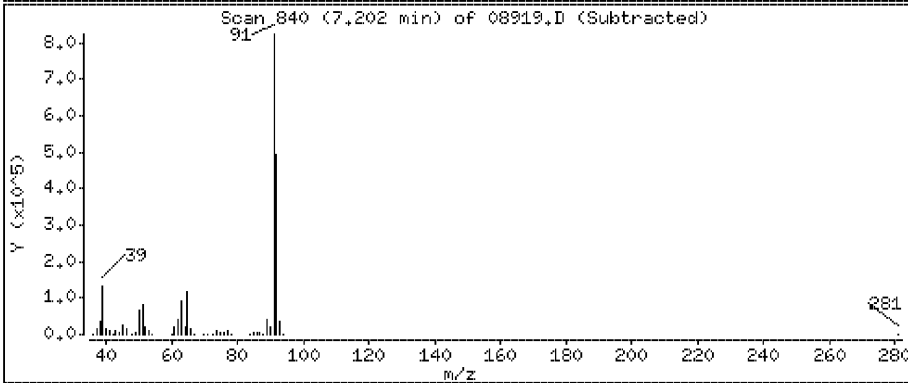
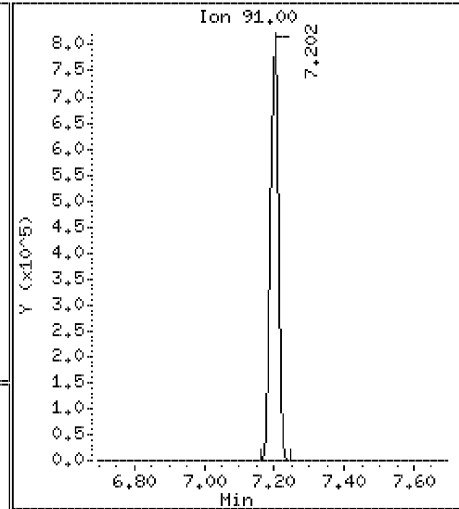
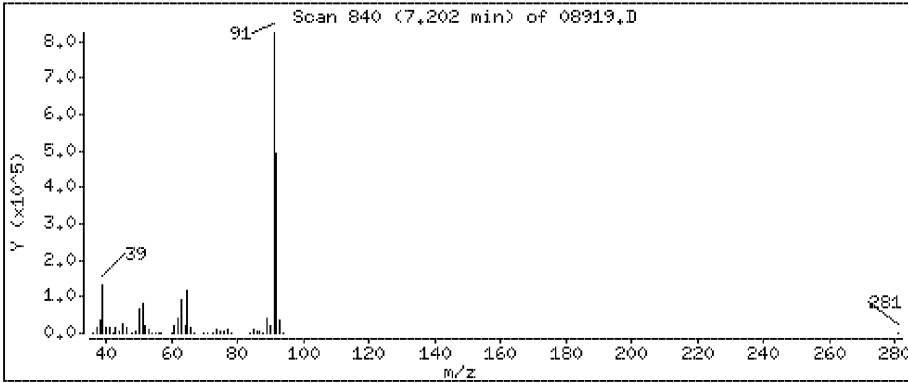
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

57 Toluene

Concentration: 13.4 ppbv



Data File: \\192.168.10.12\chem\10airI.i\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

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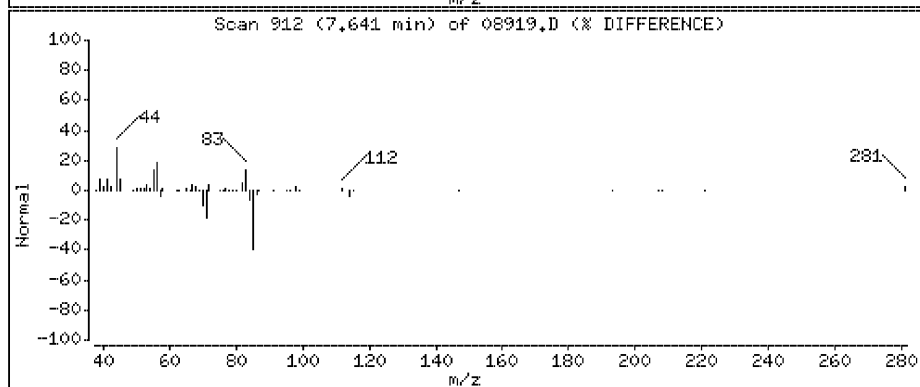
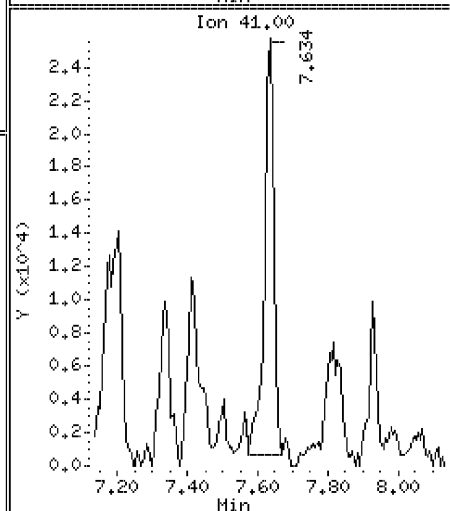
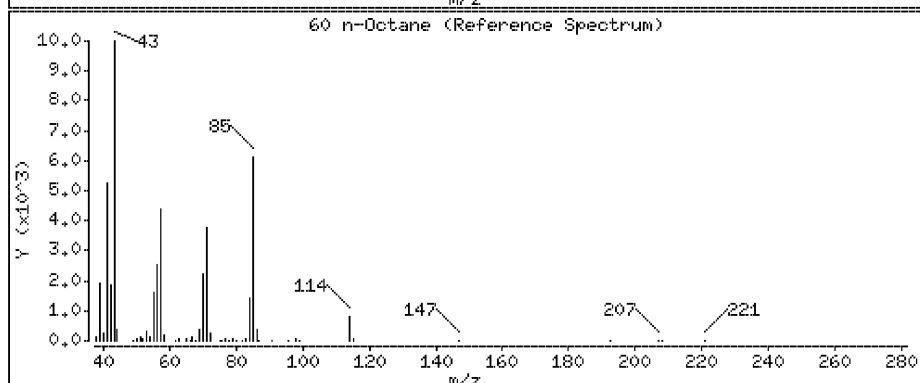
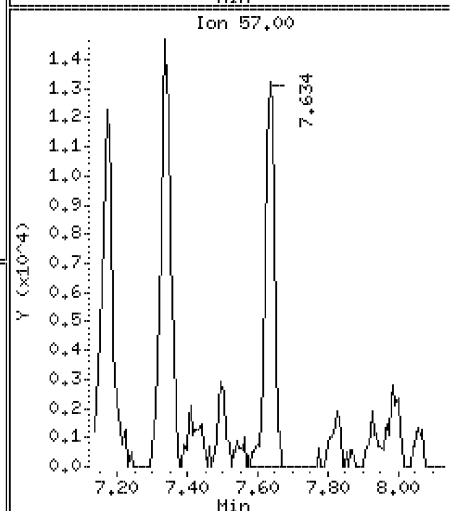
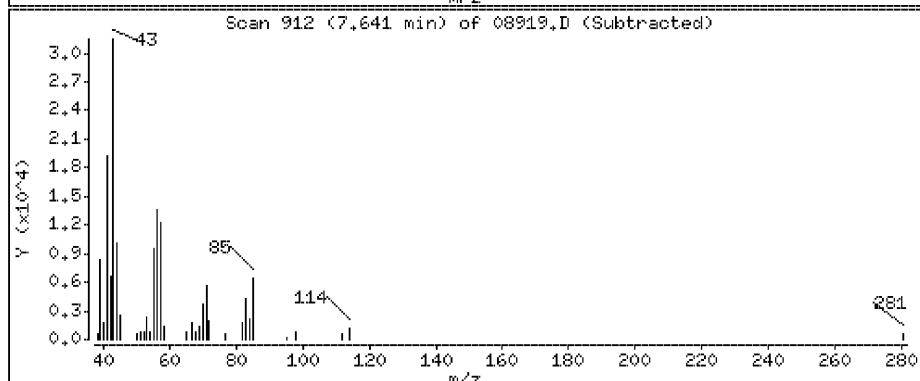
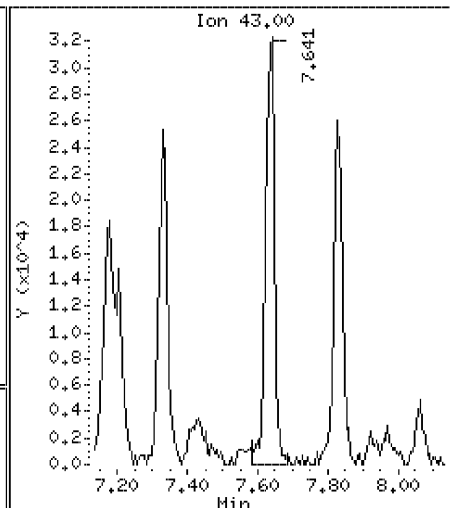
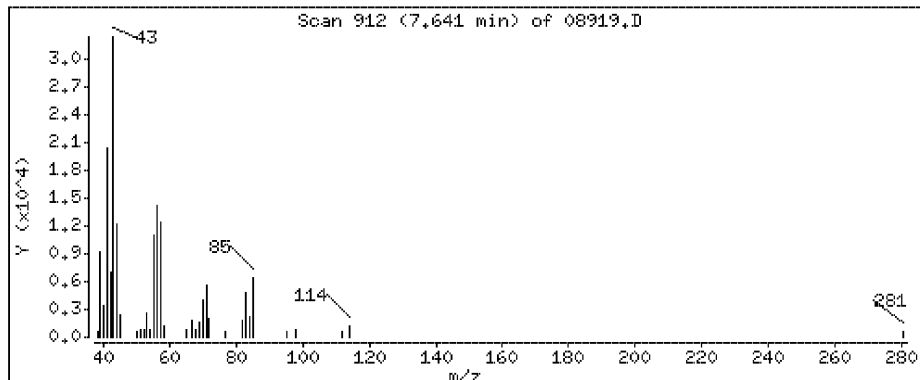
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

60 n-Octane

Concentration: 0.611 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

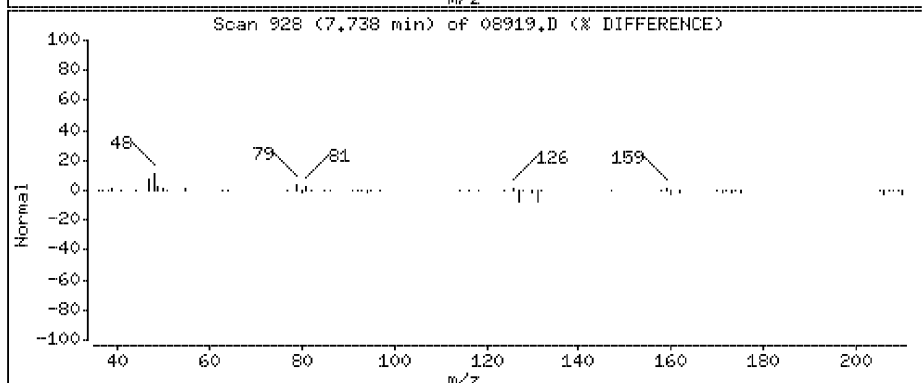
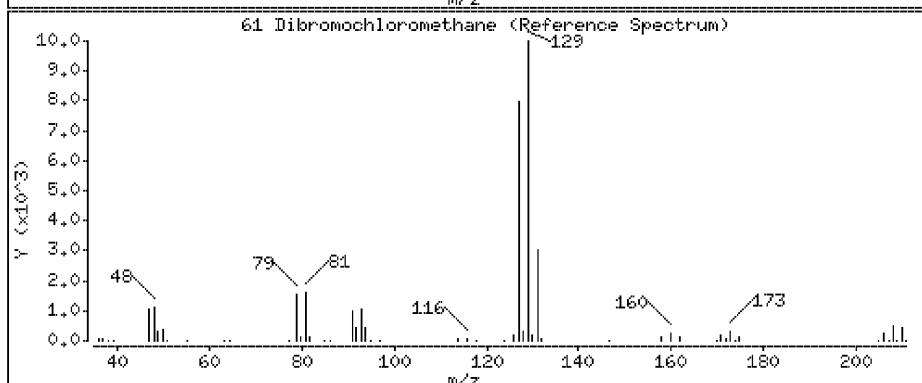
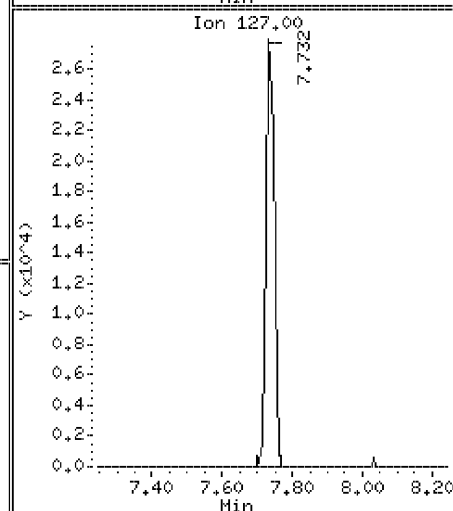
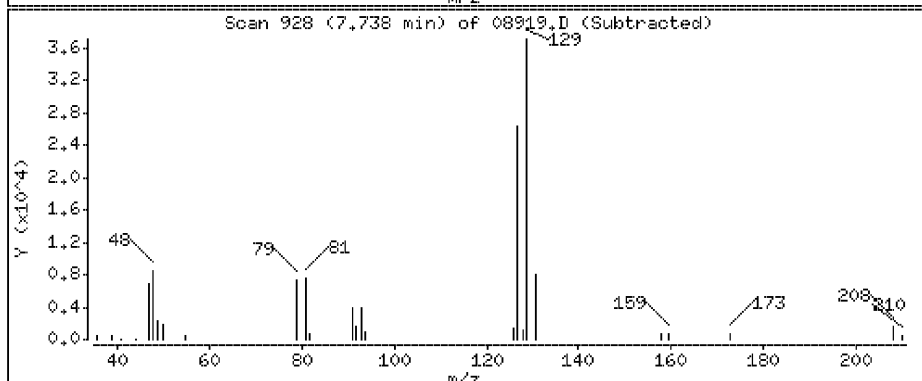
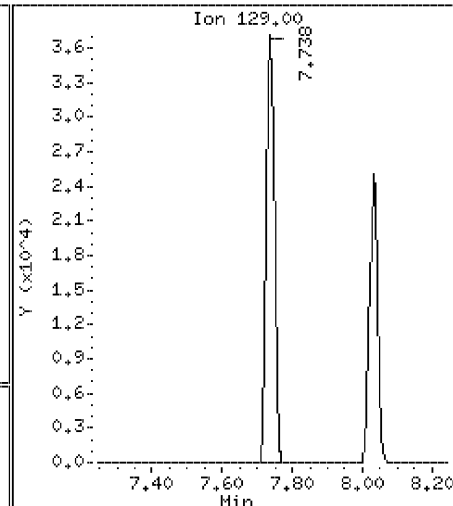
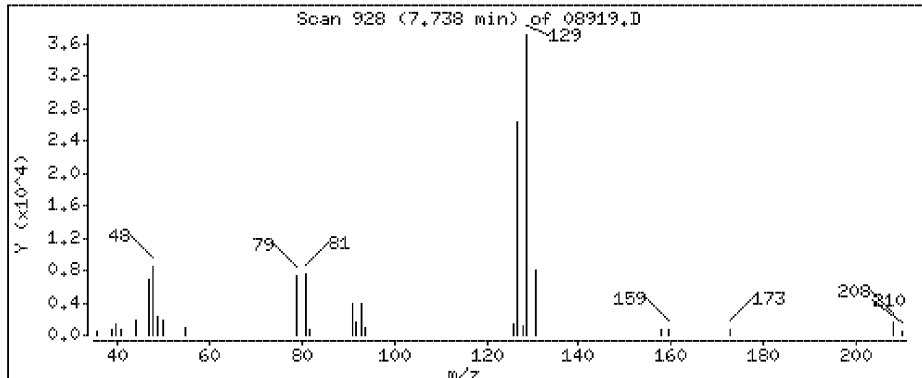
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

61 Dibromochloromethane

Concentration: 1.26 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

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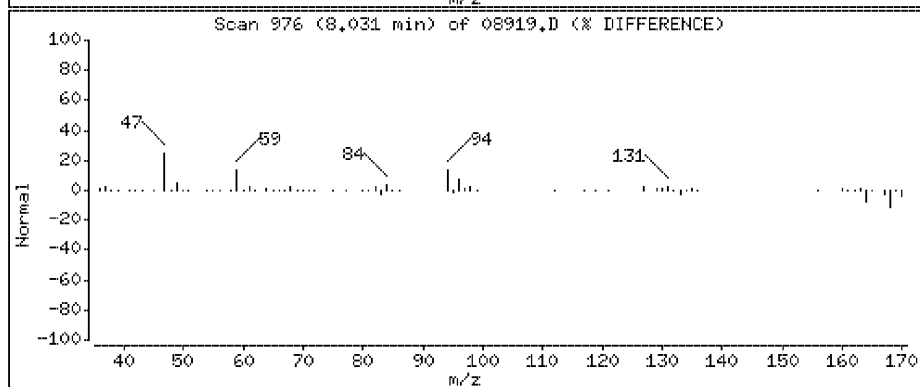
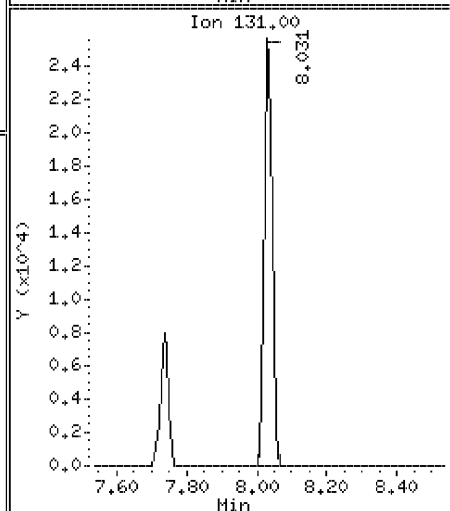
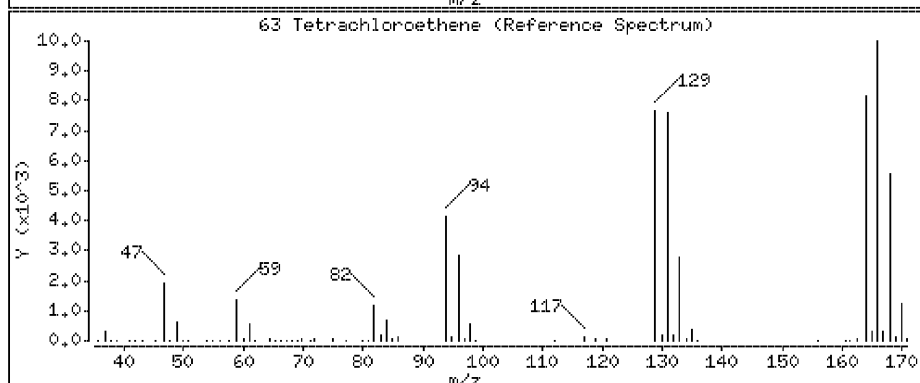
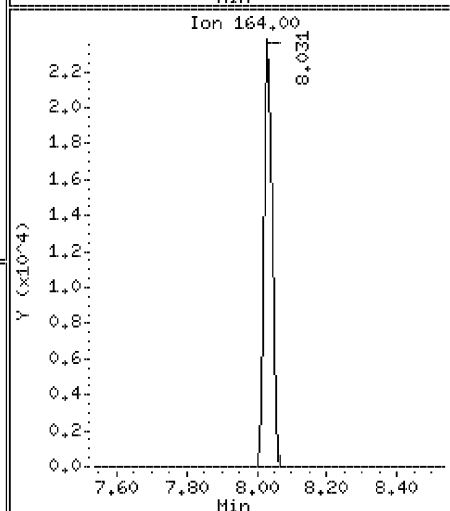
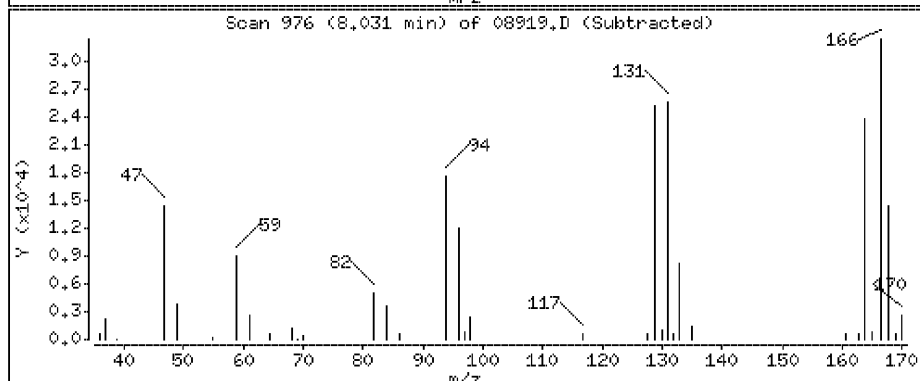
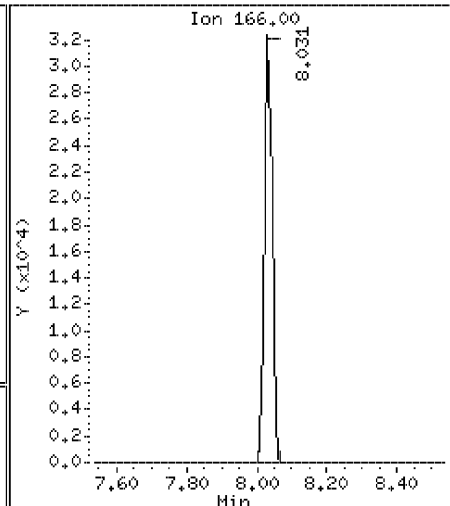
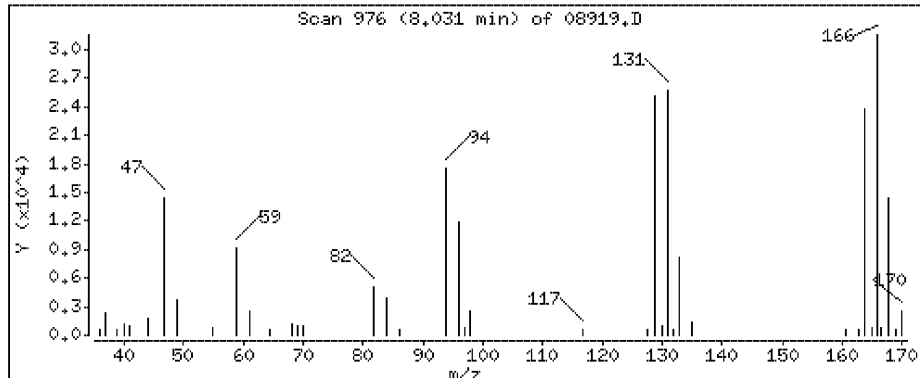
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

63 Tetrachloroethene

Concentration: 1.23 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

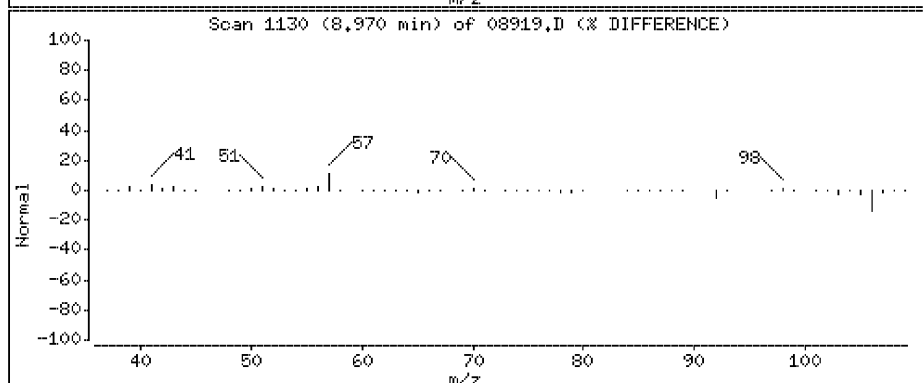
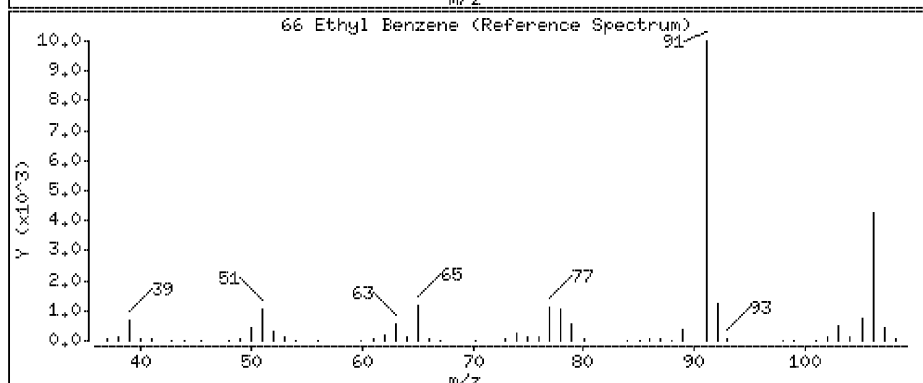
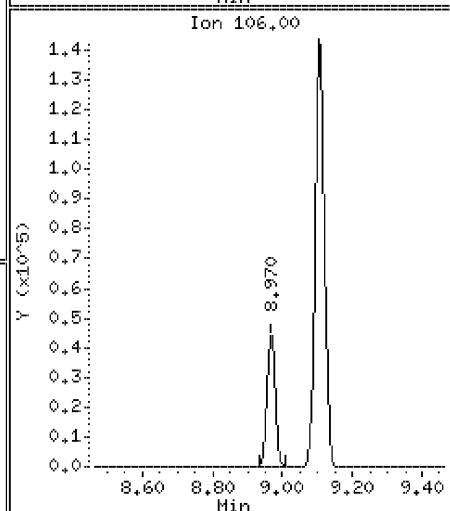
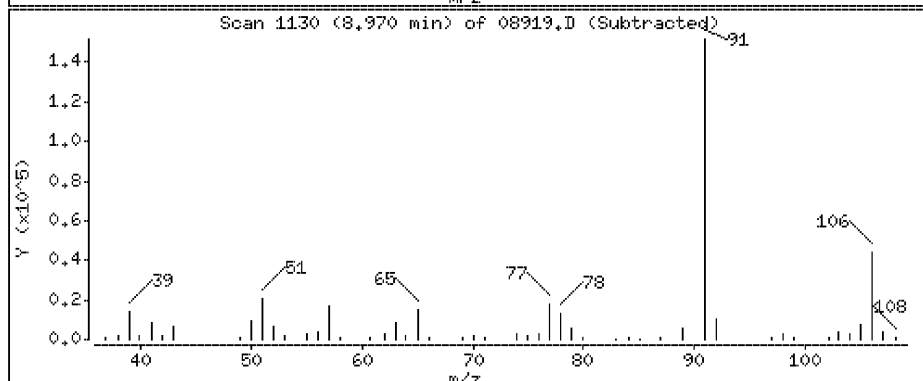
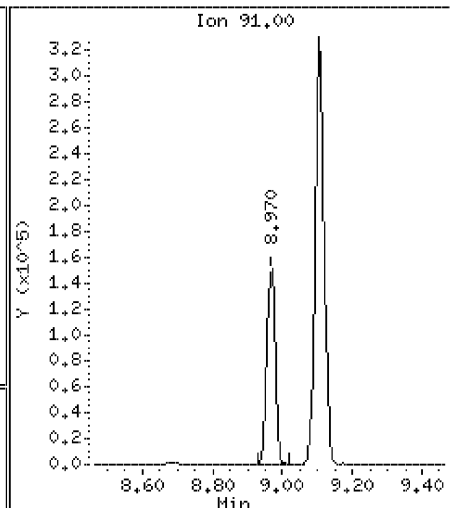
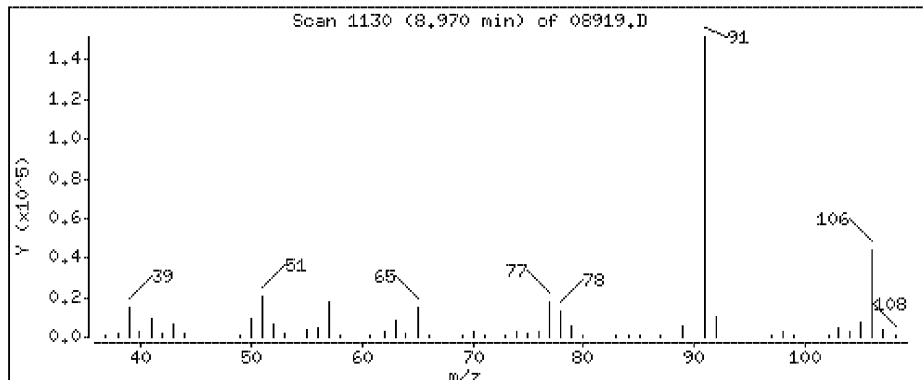
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

66 Ethyl Benzene

Concentration: 2.14 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

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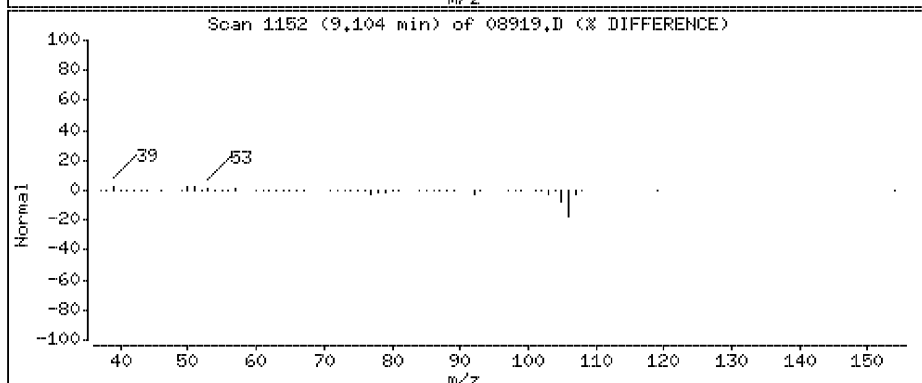
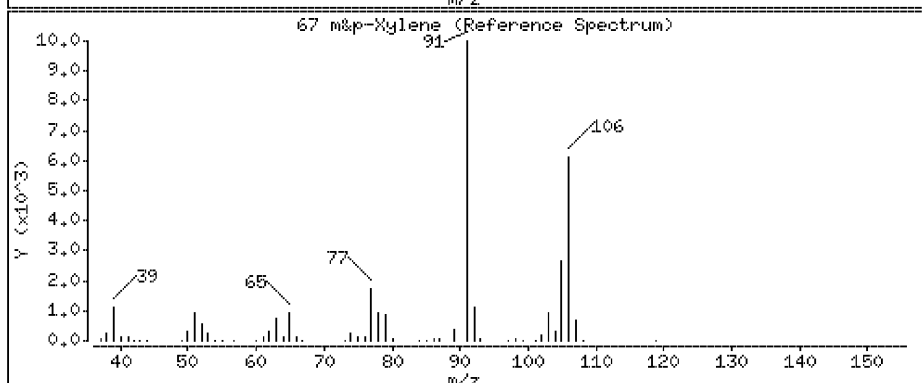
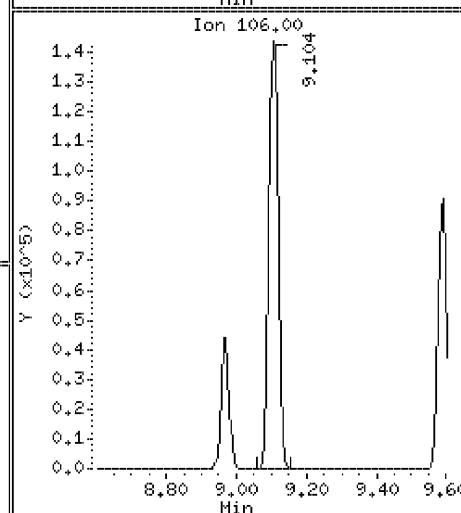
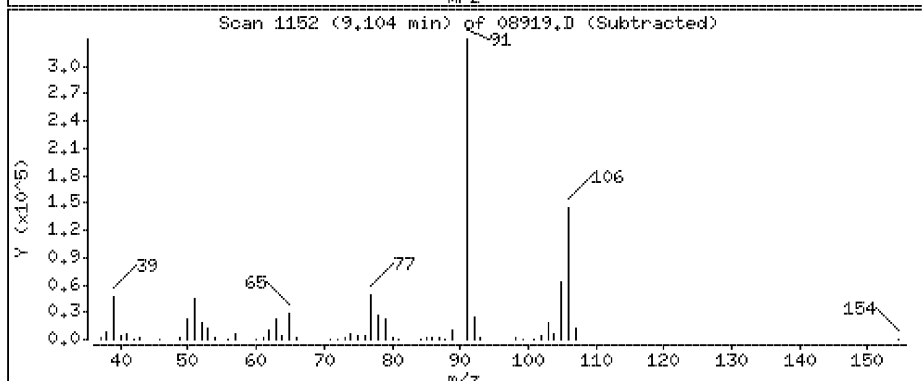
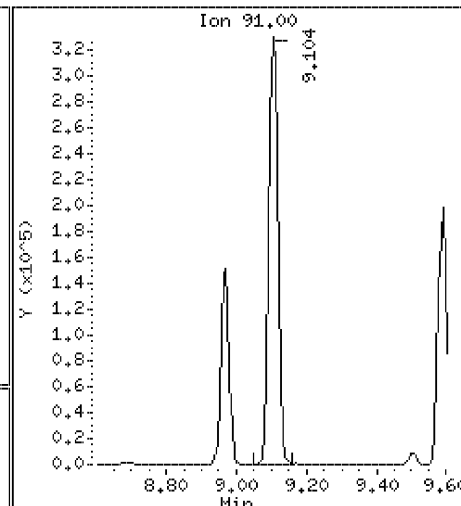
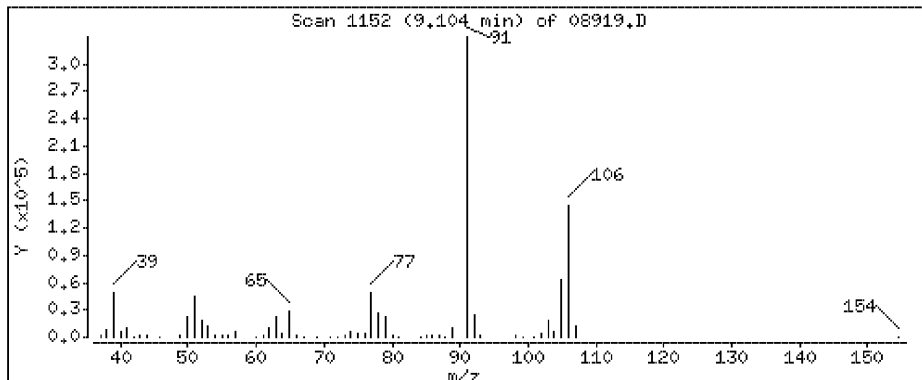
Operator: HJL

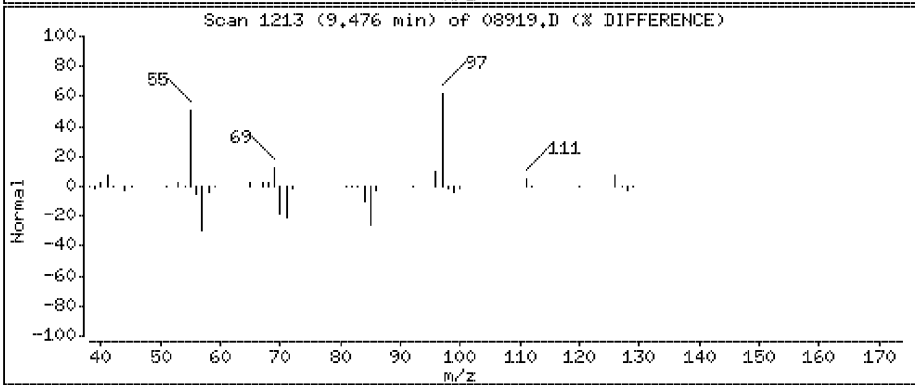
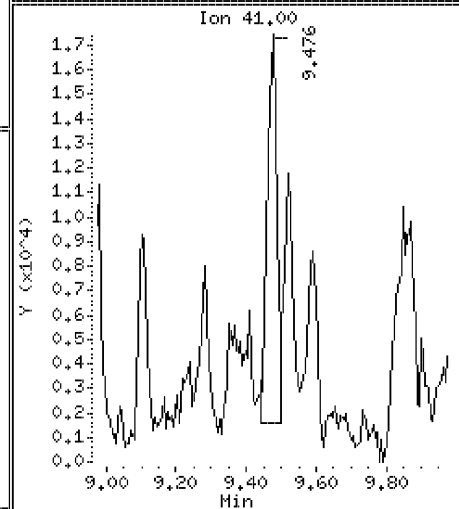
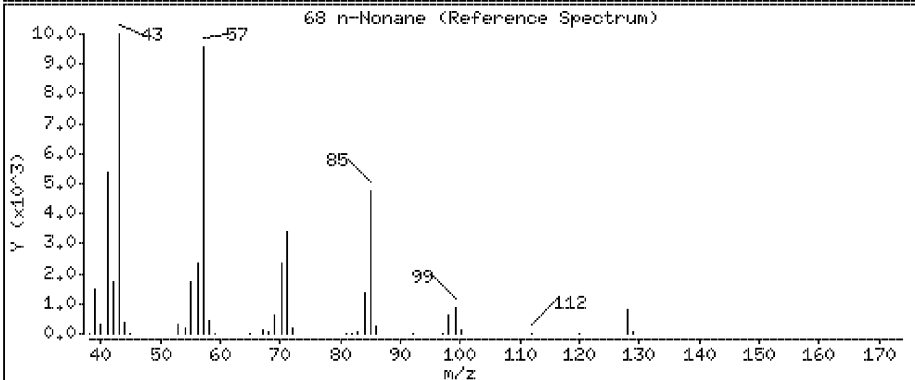
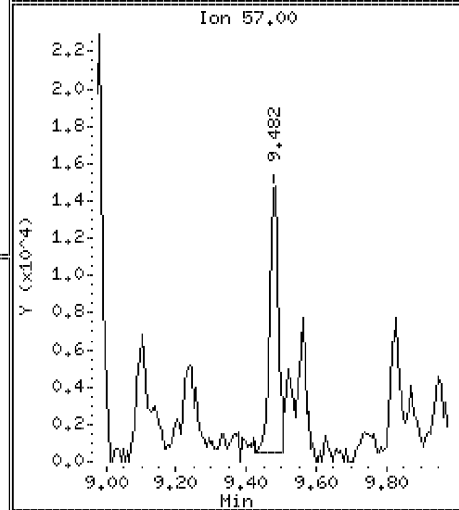
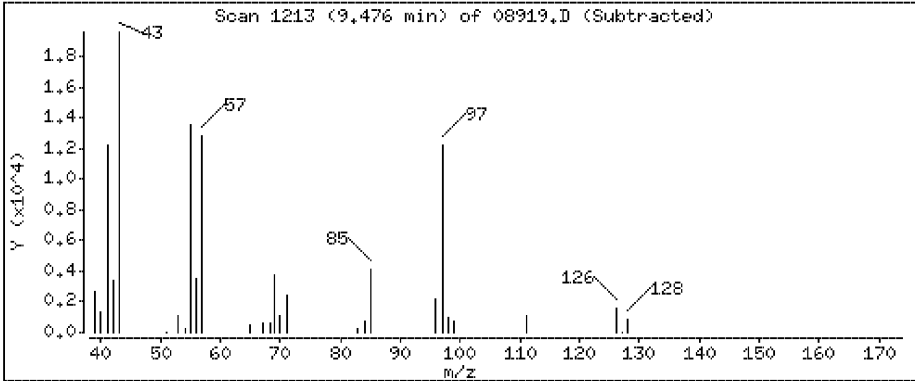
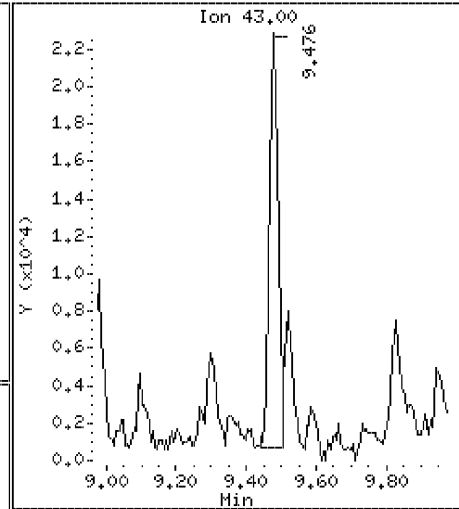
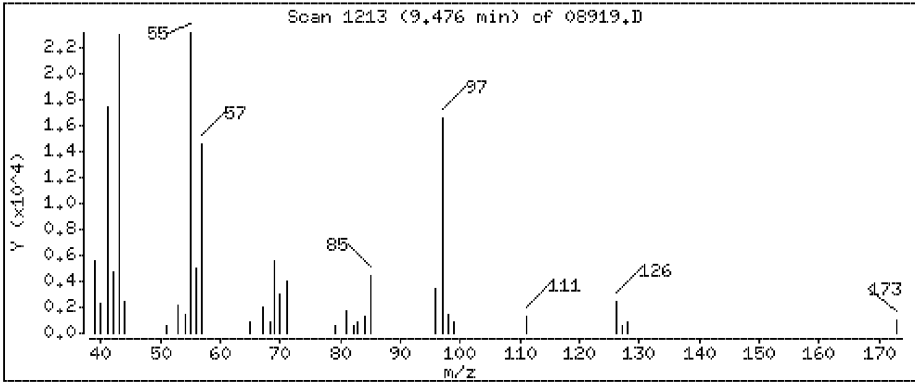
Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

67 m&p-Xylene

Concentration: 6.60 ppbv





Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

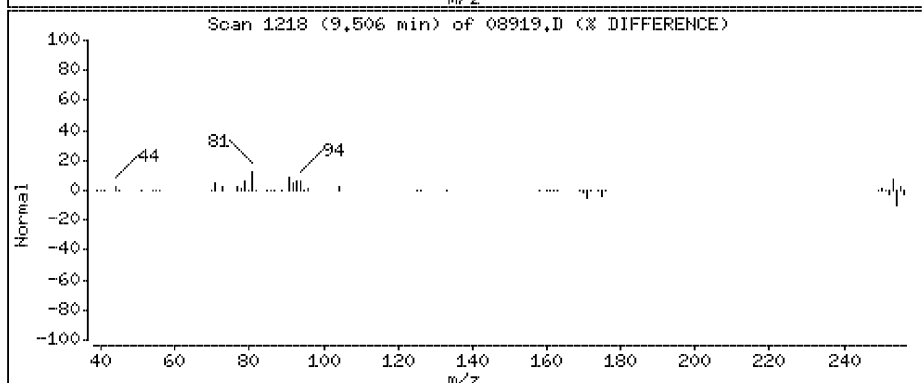
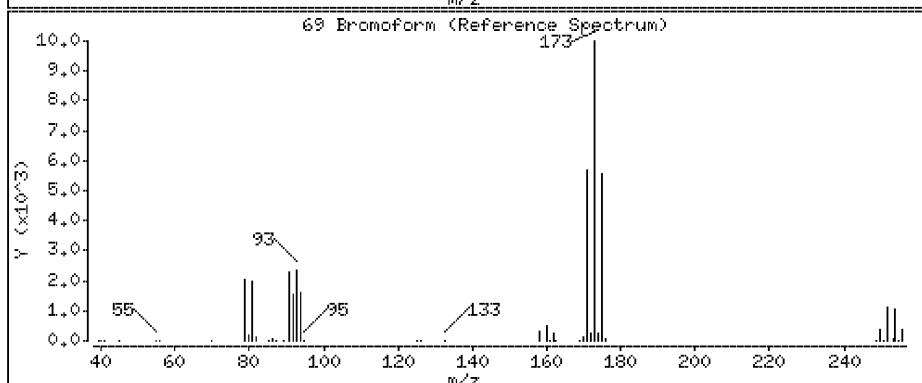
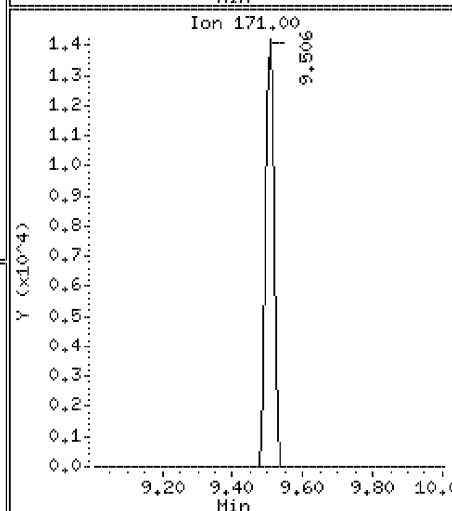
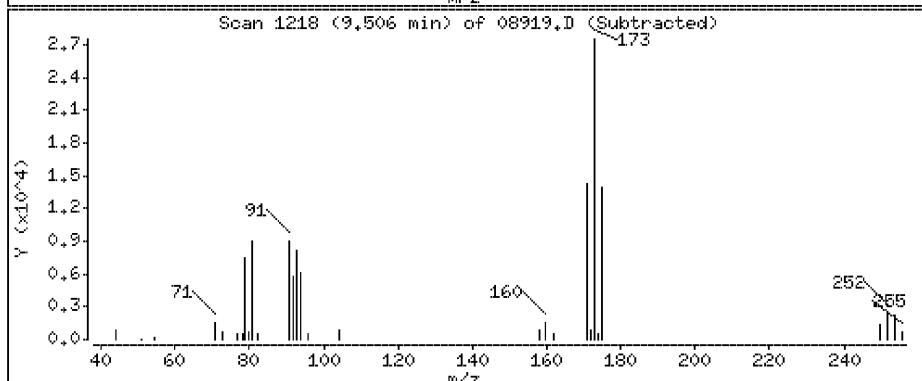
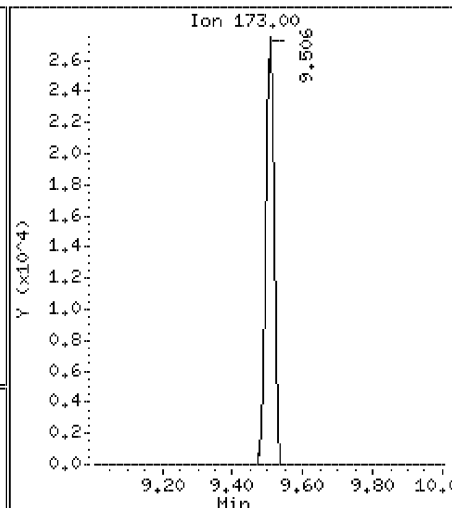
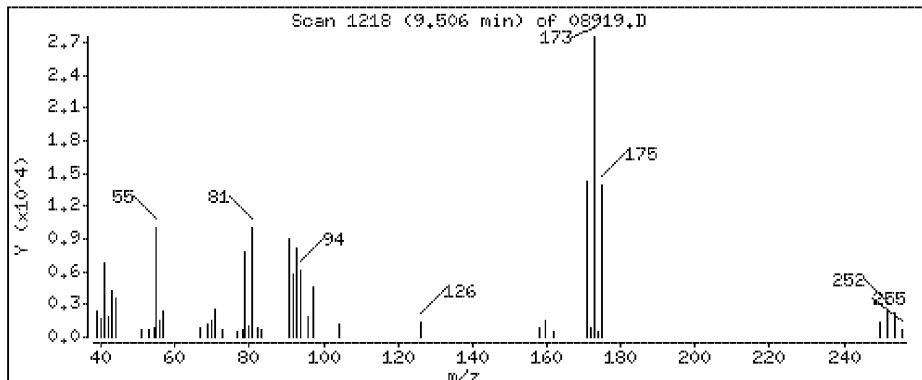
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

69 Bromoform

Concentration: 1.51 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

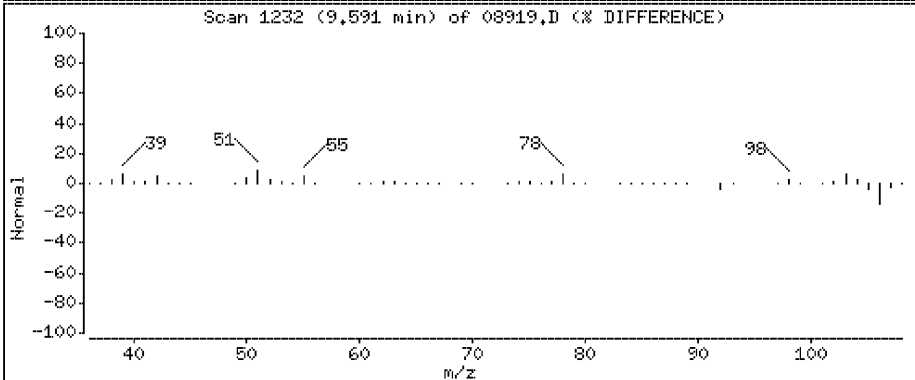
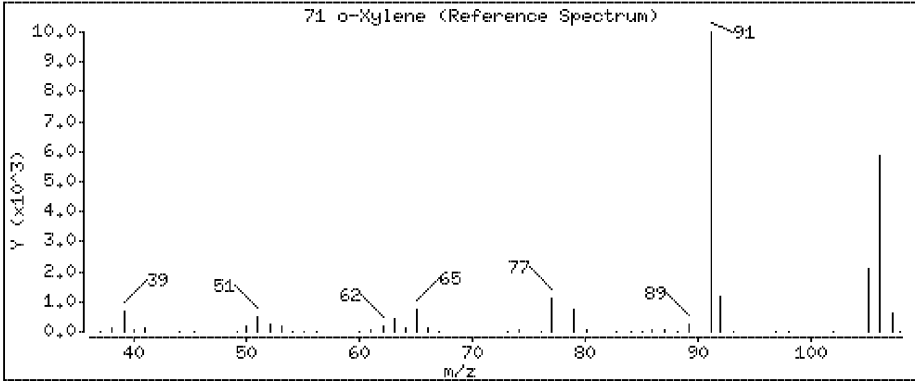
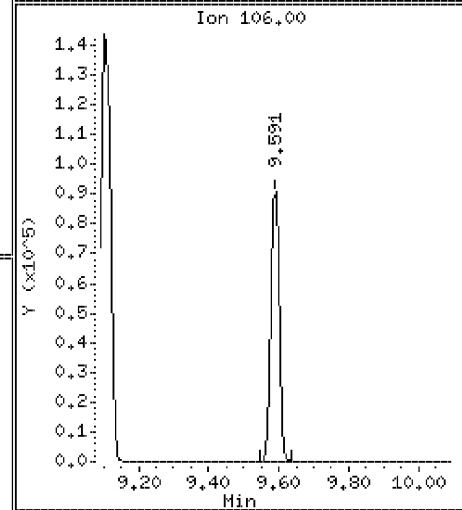
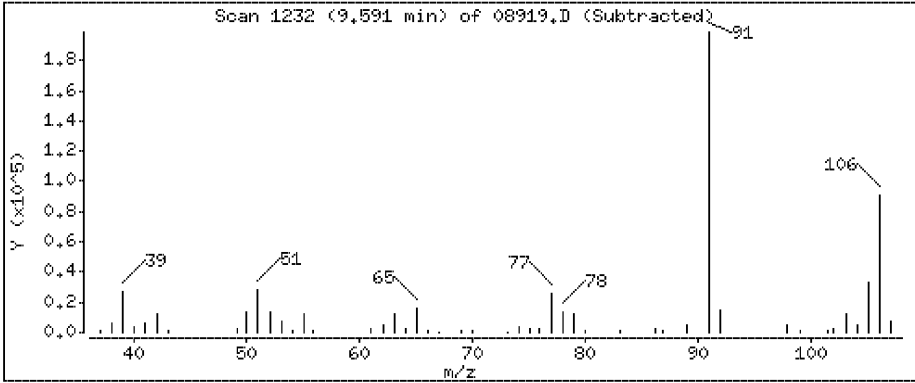
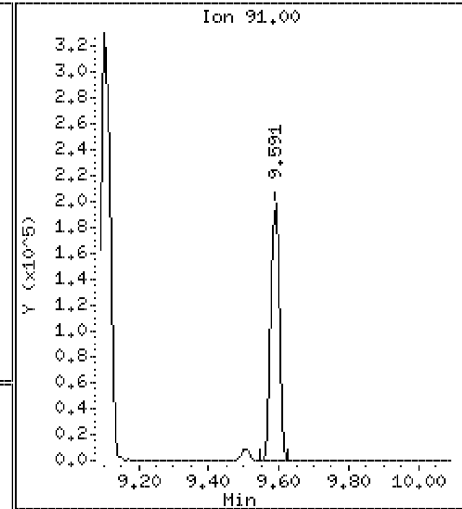
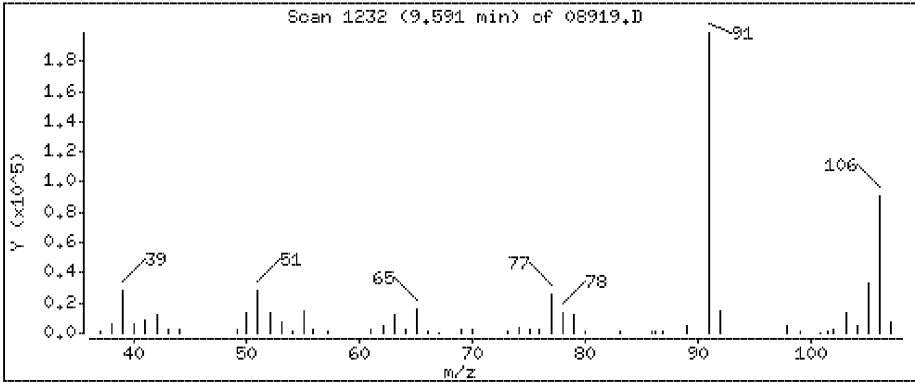
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

71 o-Xylene

Concentration: 3.50 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

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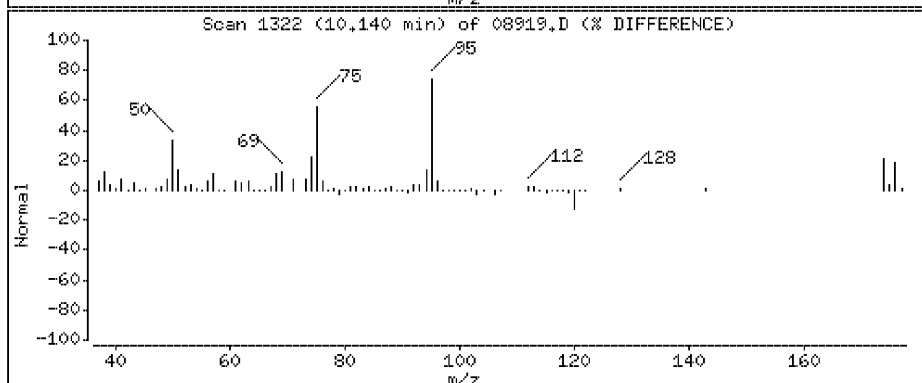
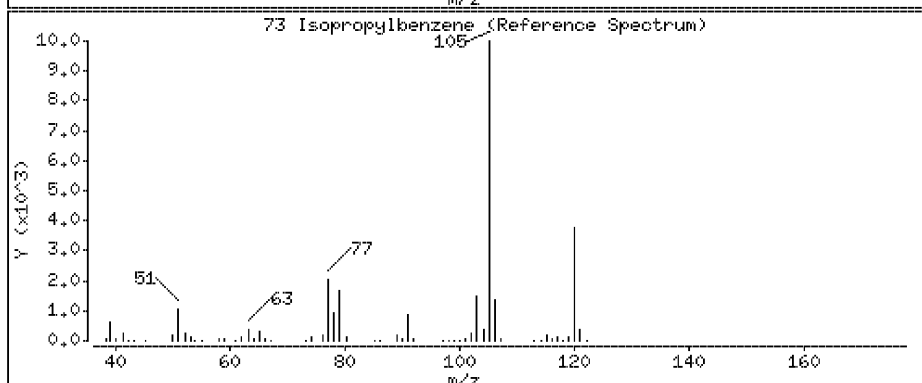
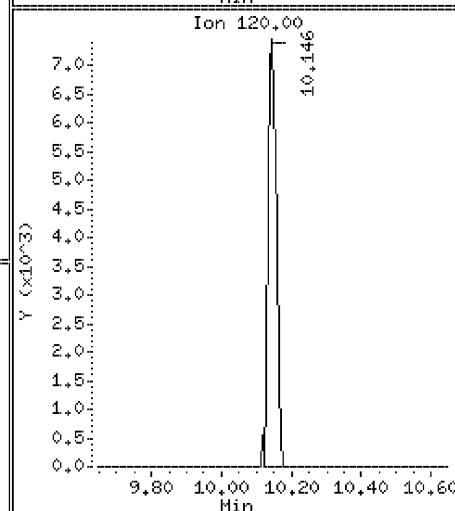
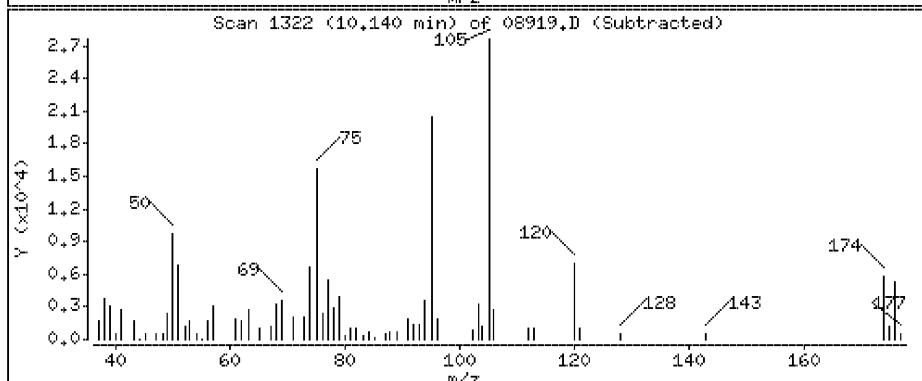
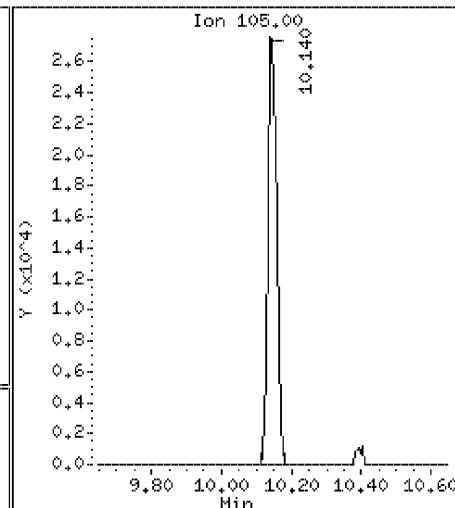
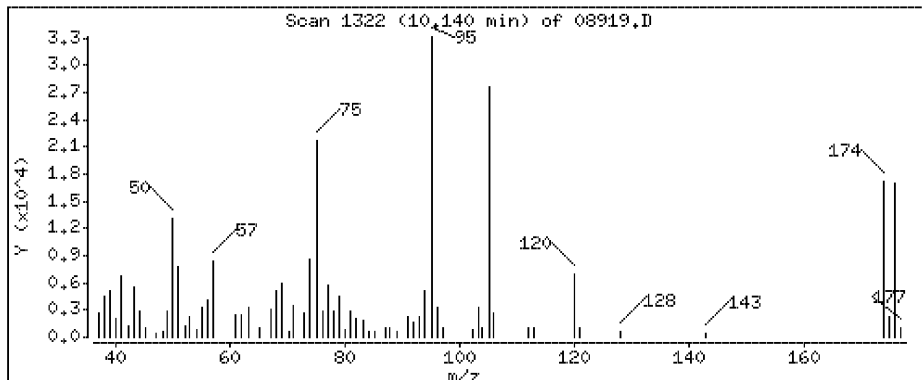
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

73 Isopropylbenzene

Concentration: 0,372 ppbv



Data File: \\192.168.10.12\chem\10airI.i\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

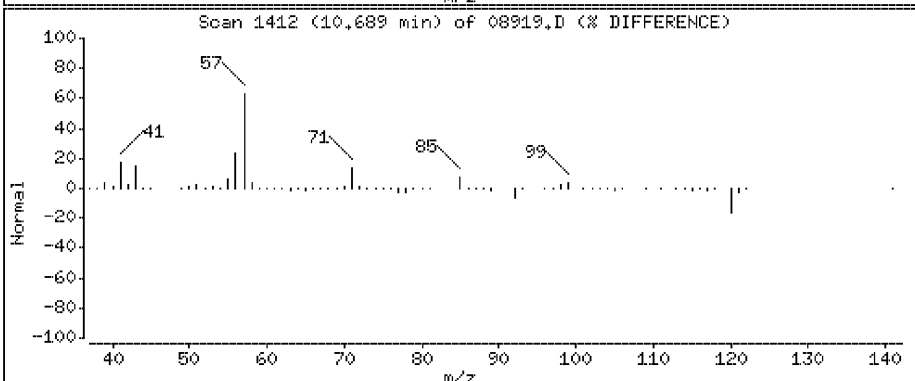
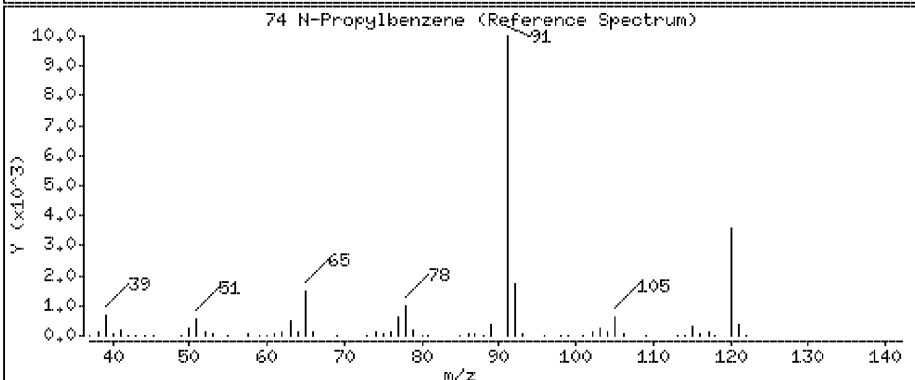
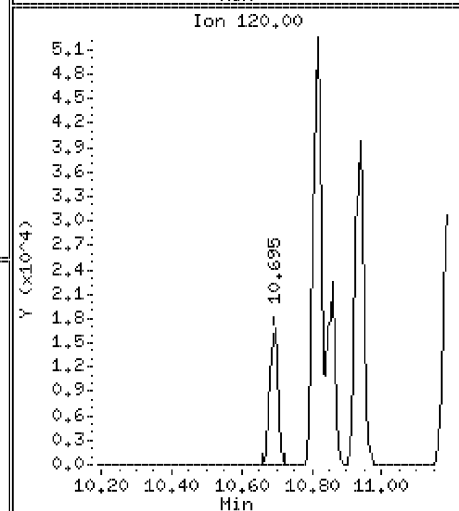
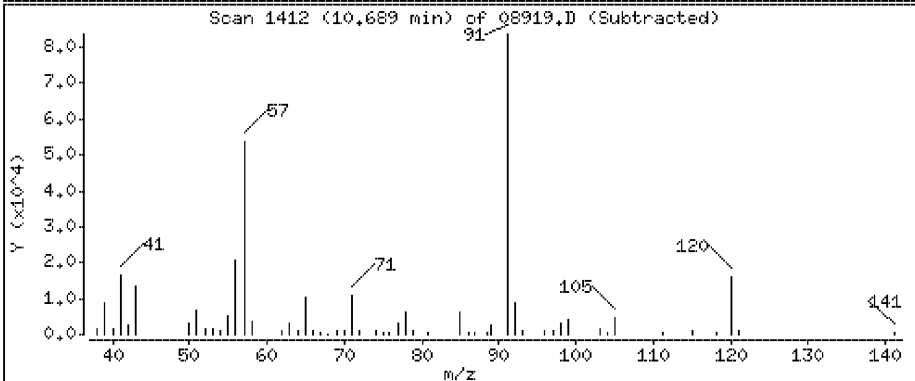
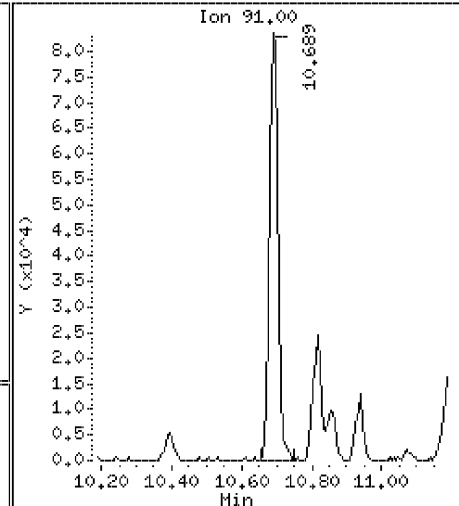
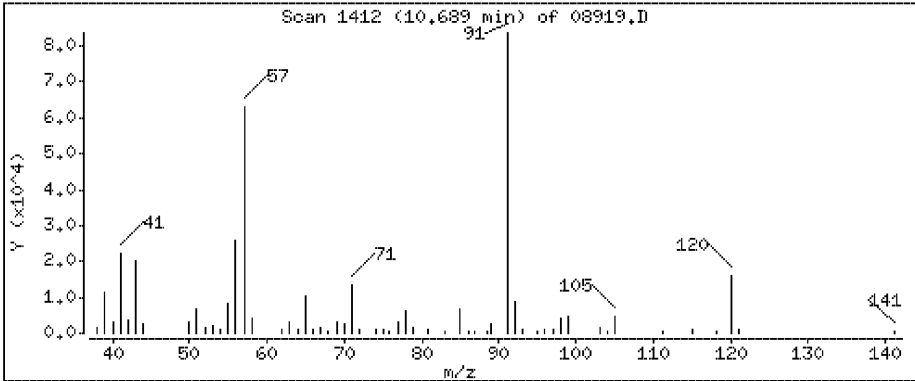
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

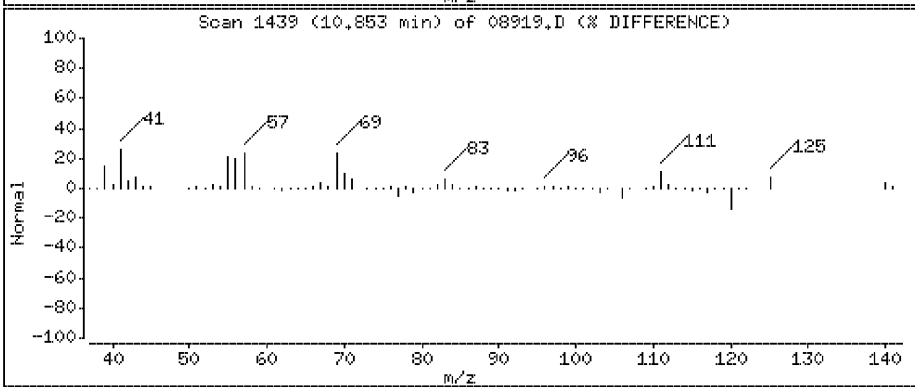
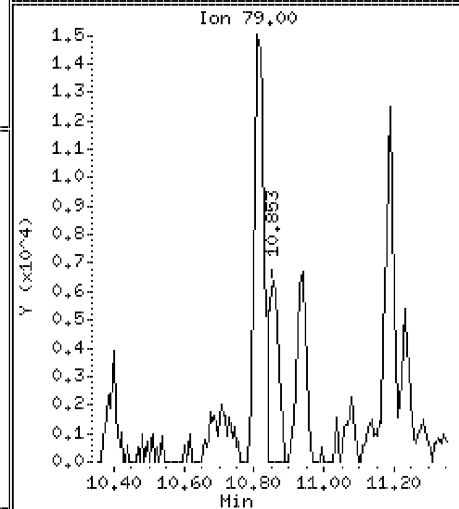
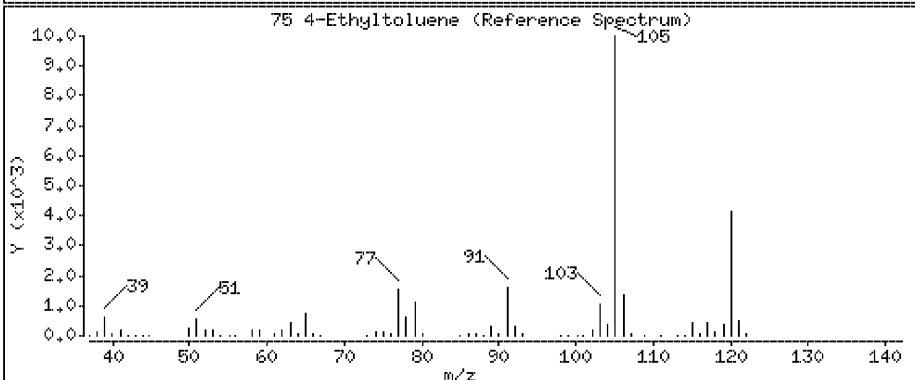
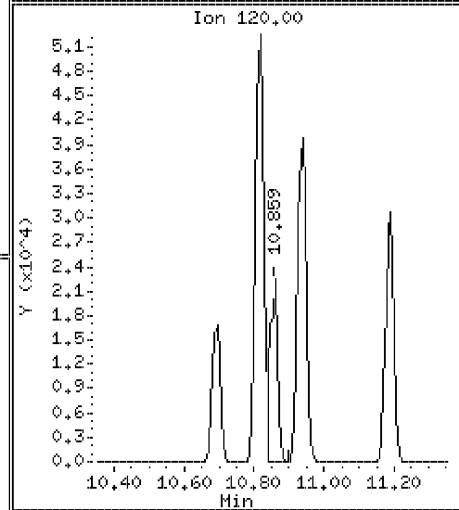
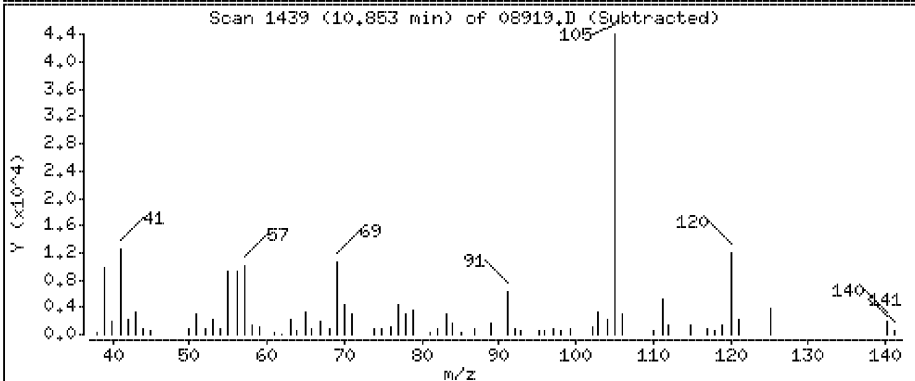
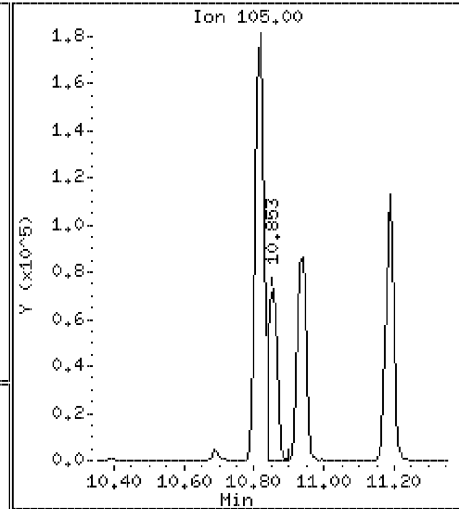
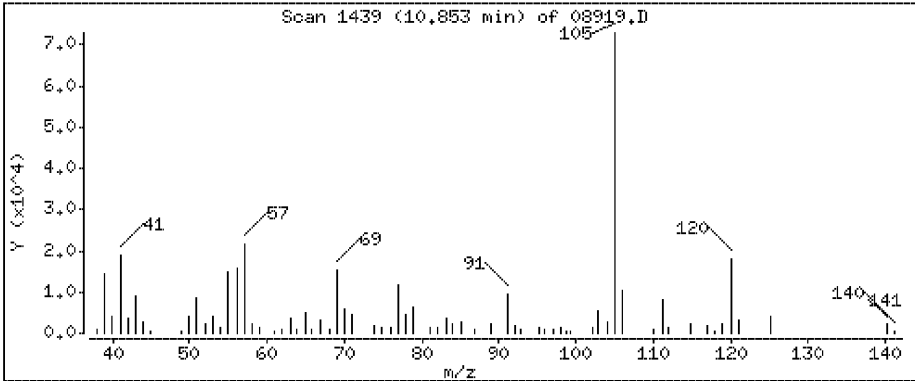
74 N-Propylbenzene

Concentration: 0.905 ppbv



75 4-Ethyltoluene

Concentration: 1.04 ppbv



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Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

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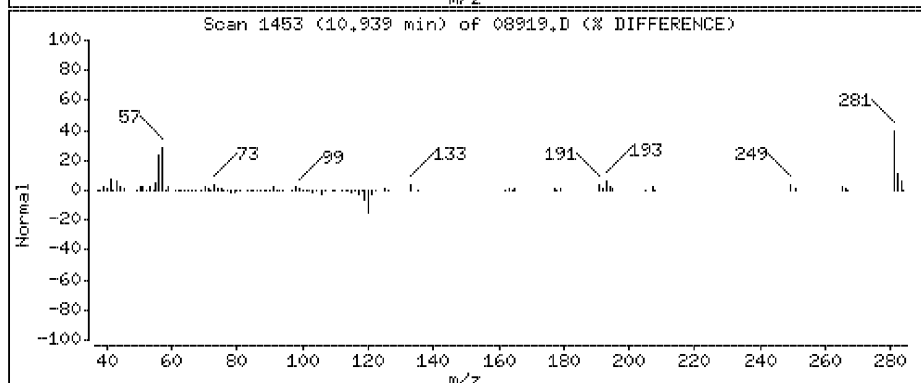
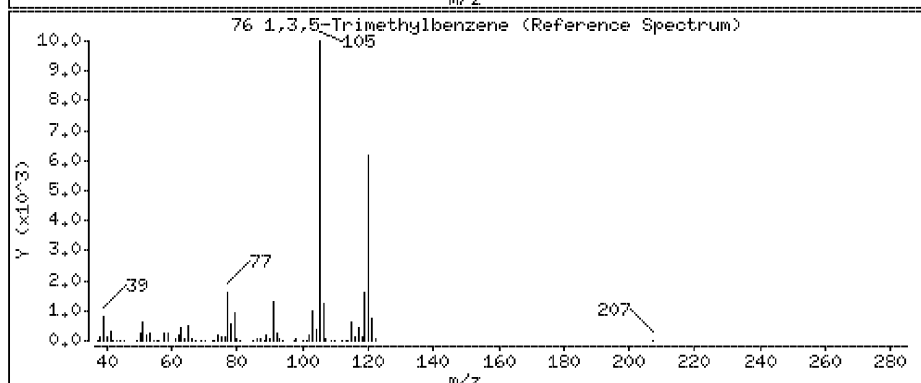
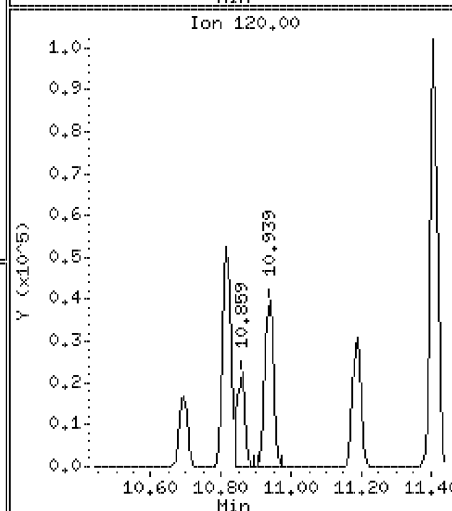
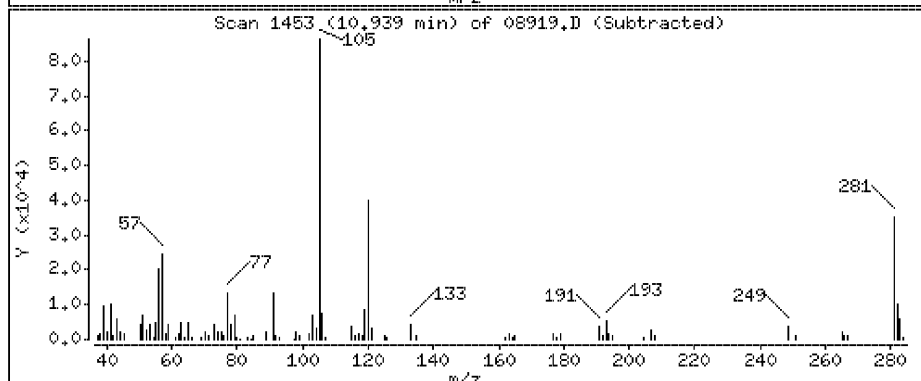
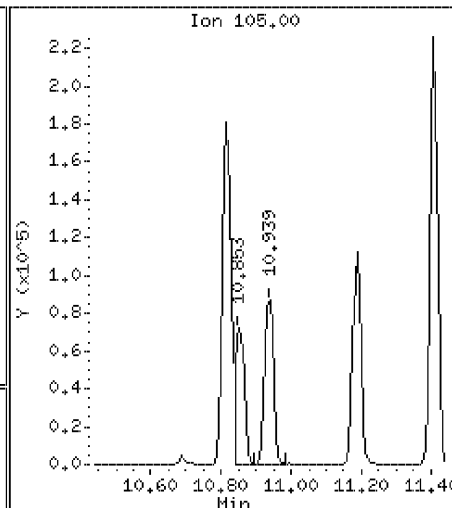
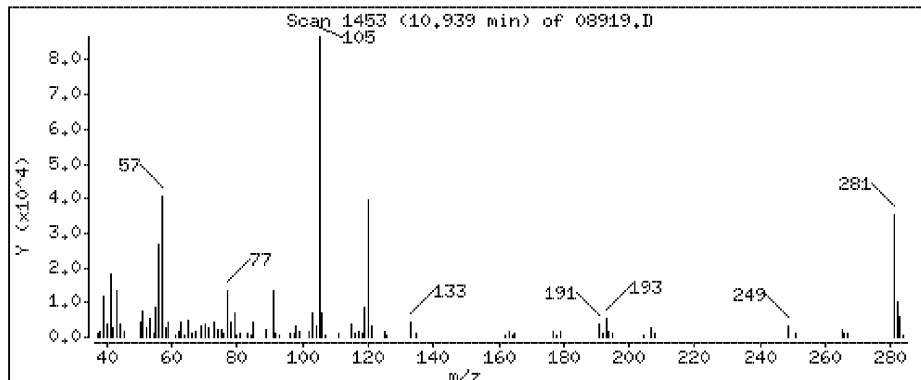
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

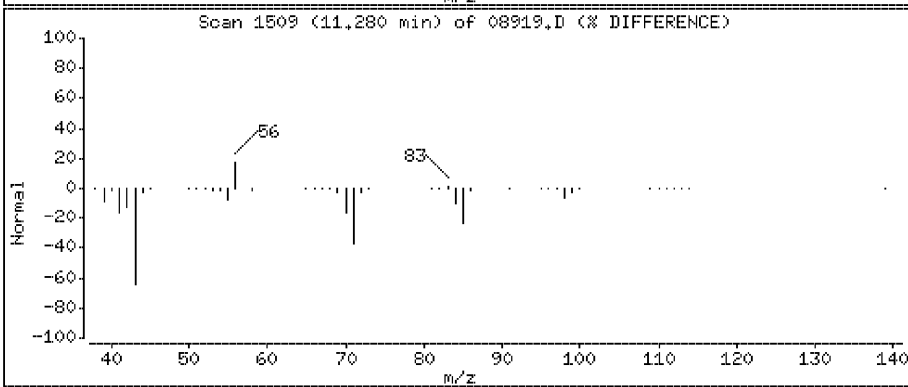
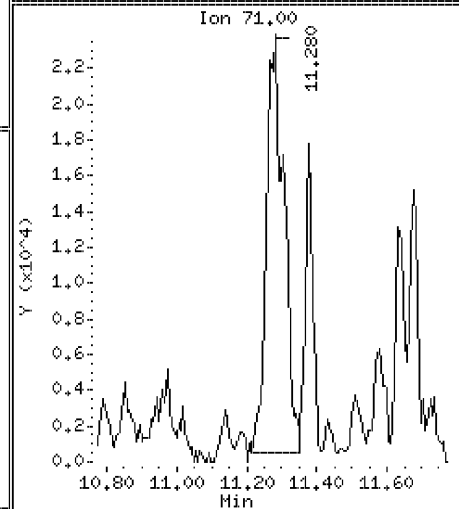
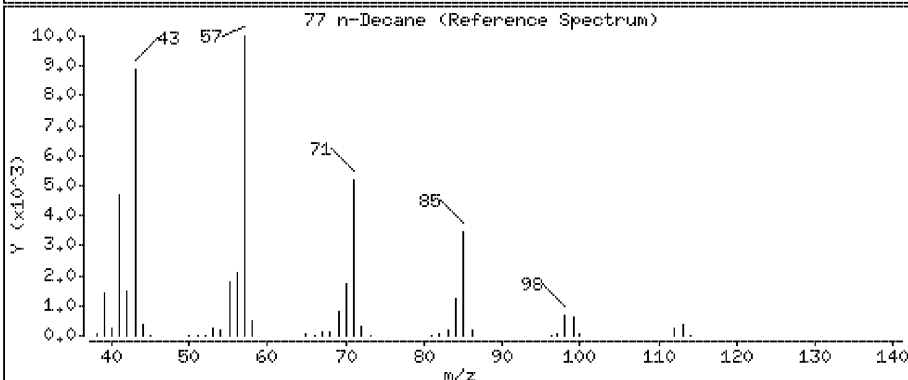
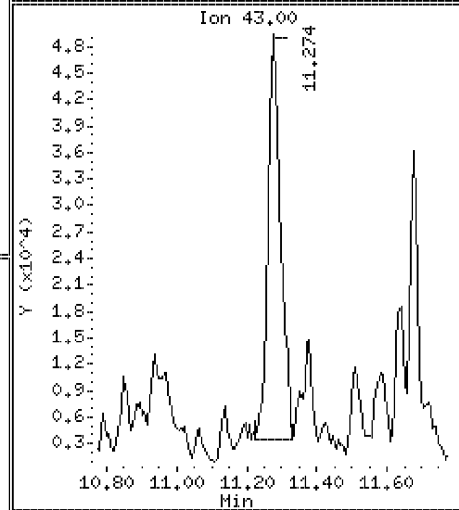
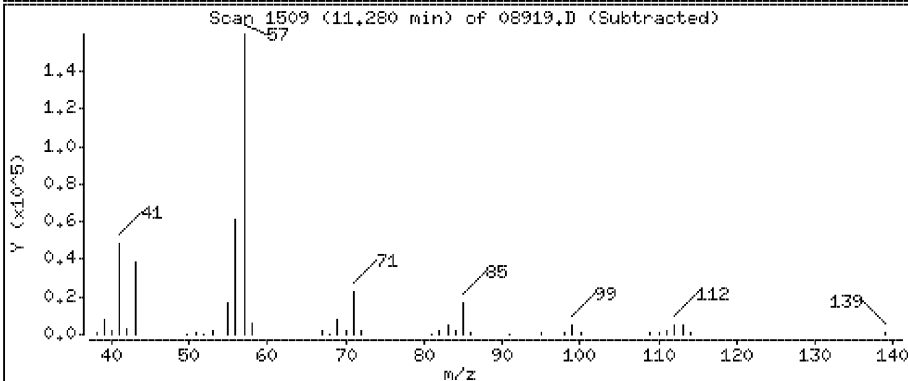
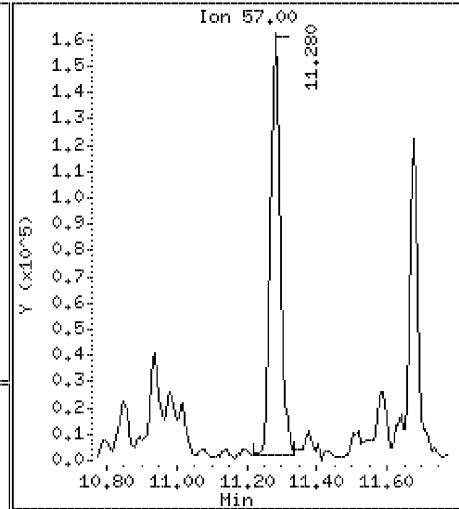
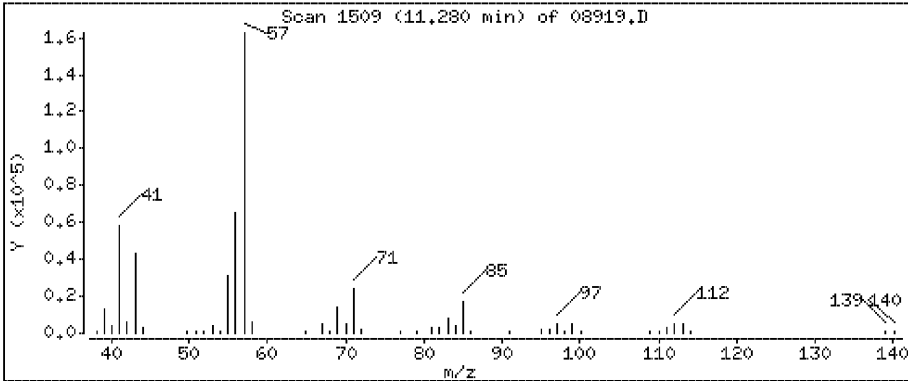
76 1,3,5-Trimethylbenzene

Concentration: 1.51 ppbv



77 n-Decane

Concentration: 4.08 ppbv



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Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

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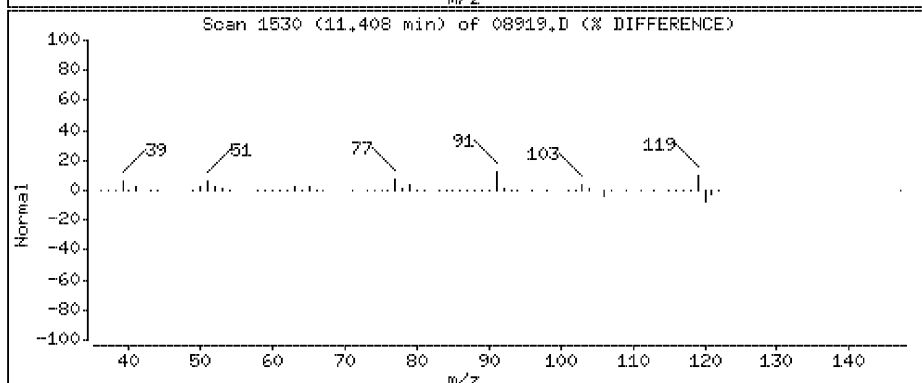
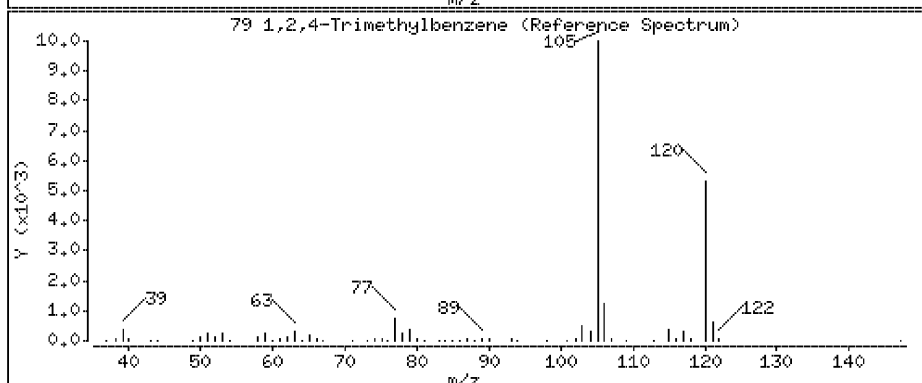
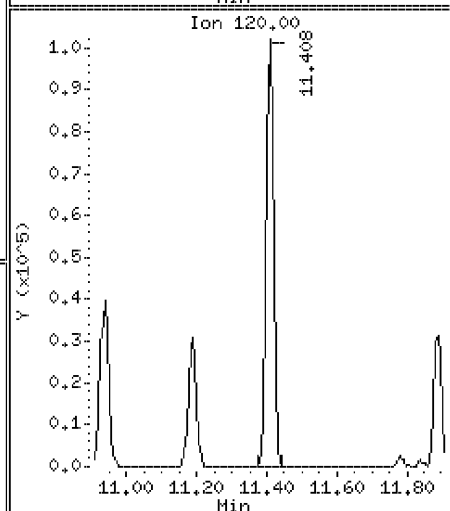
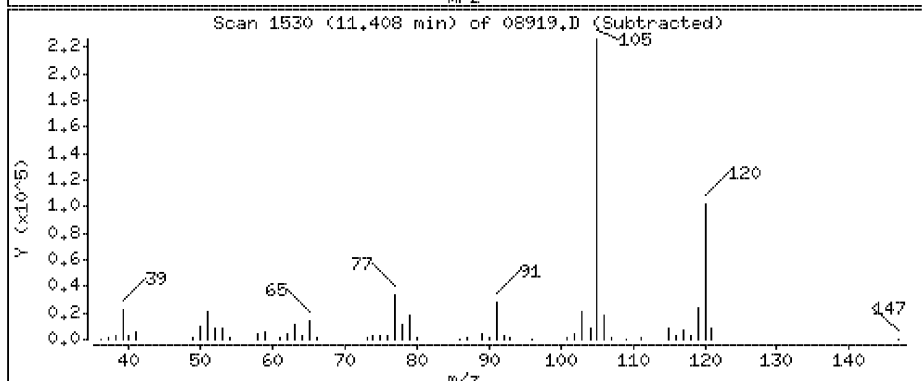
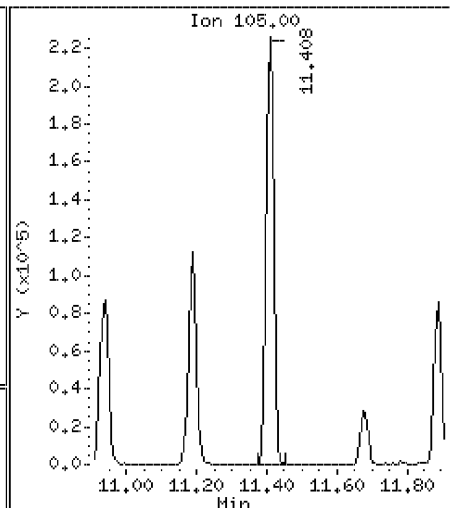
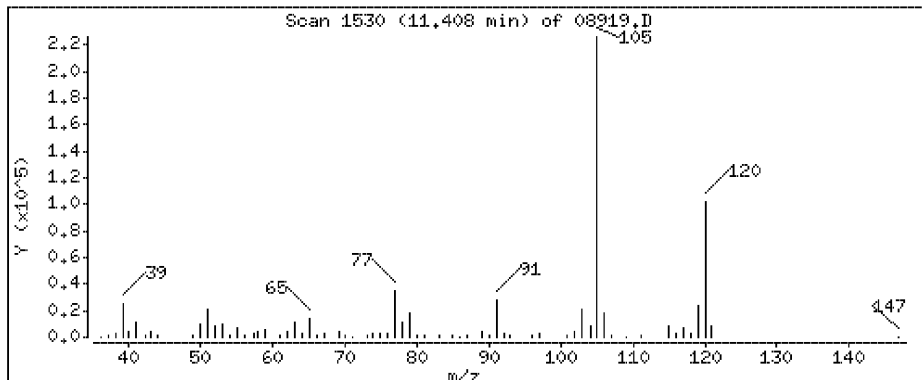
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

79 1,2,4-Trimethylbenzene

Concentration: 3.31 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

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Client ID:

Instrument: 10airI.i

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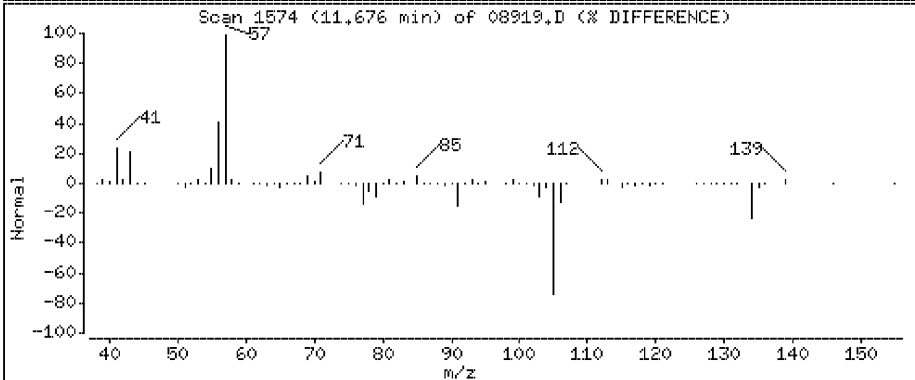
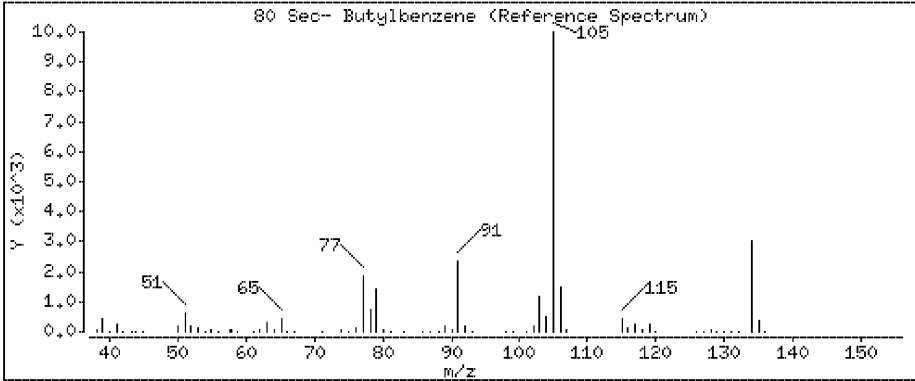
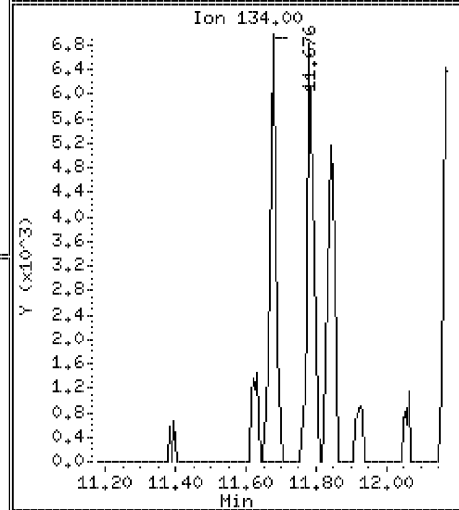
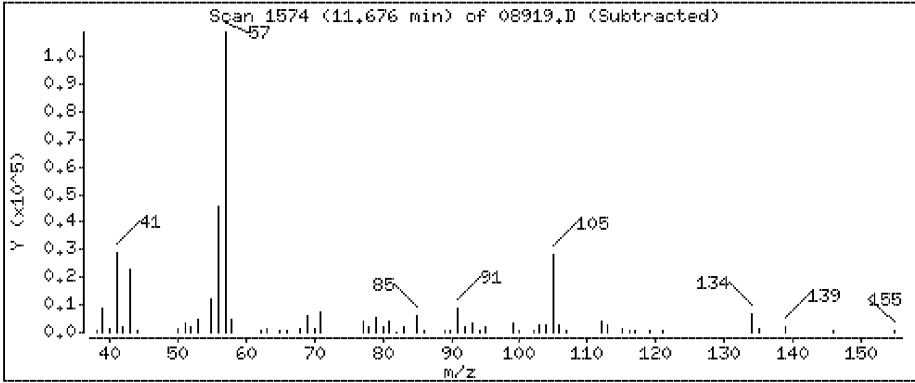
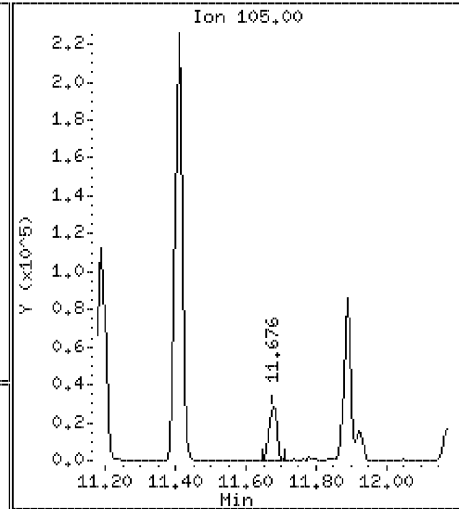
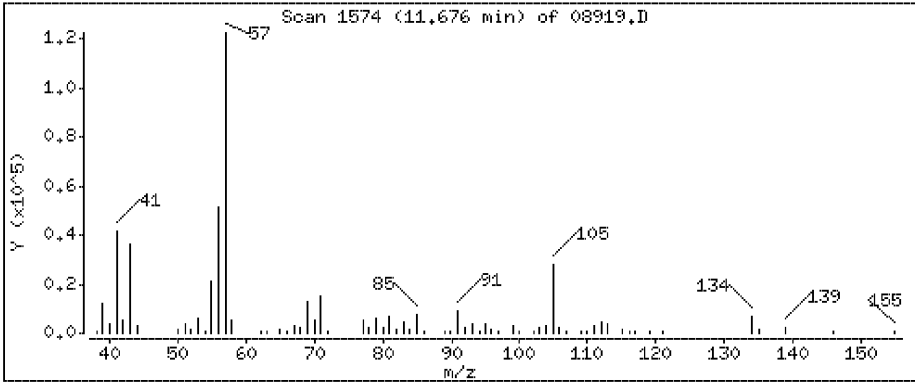
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

80 Sec- Butylbenzene

Concentration: 0.308 ppbv



Data File: \\192.168.10.12\chem\10airI.i\033019,b\08919.D

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Instrument: 10airI.i

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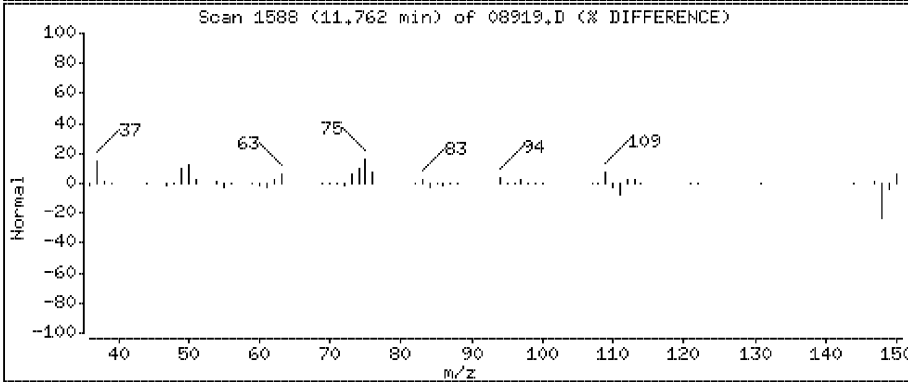
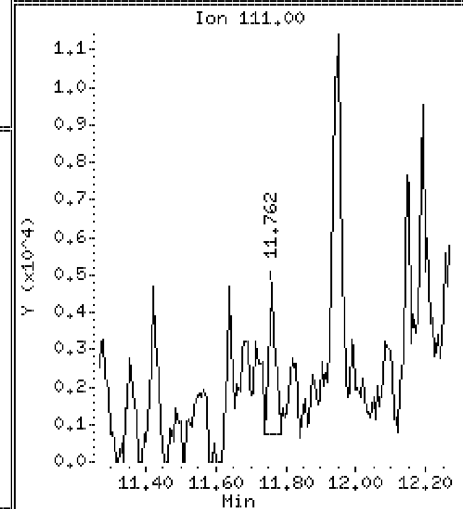
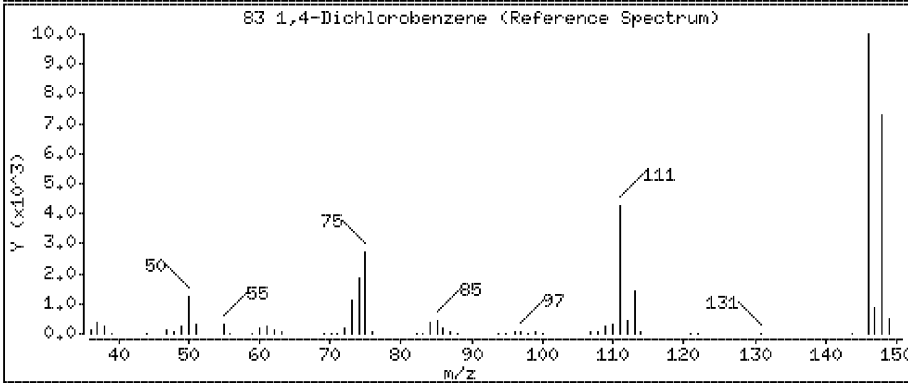
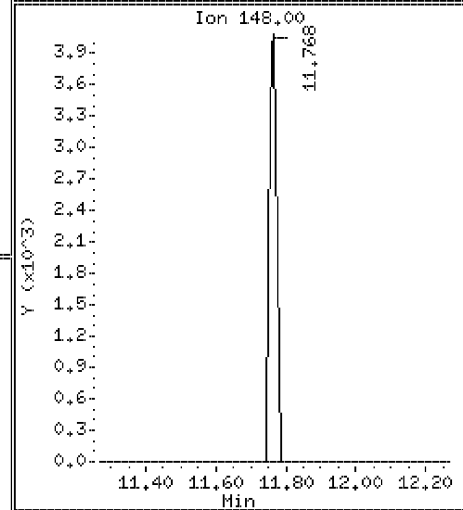
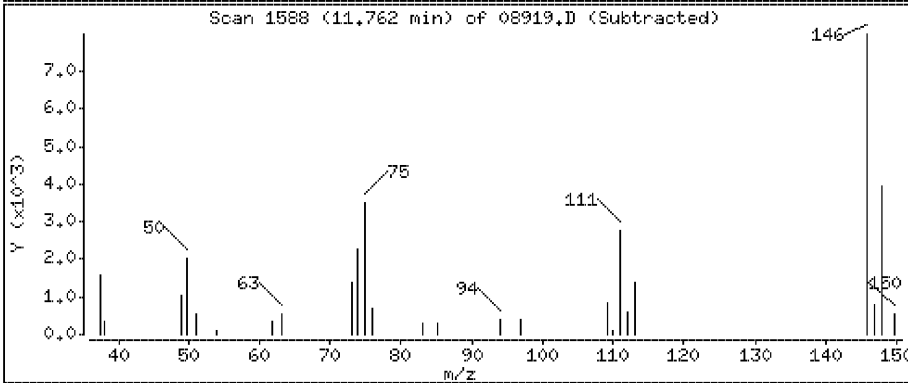
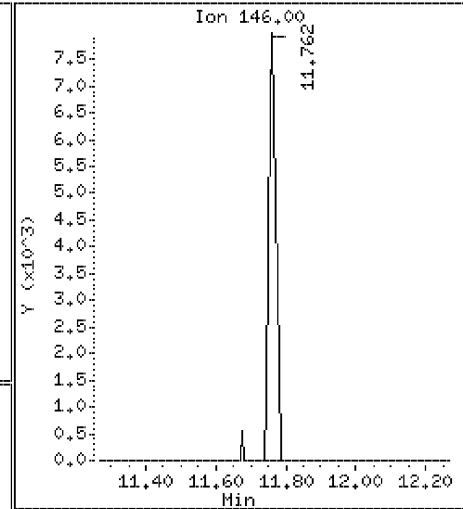
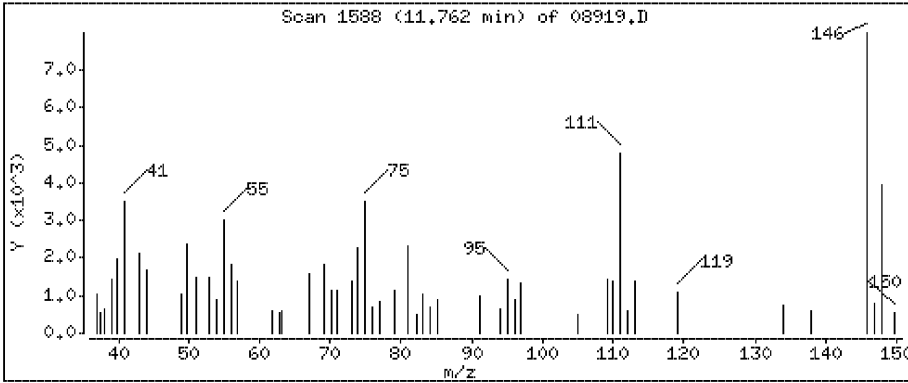
Operator: MJL

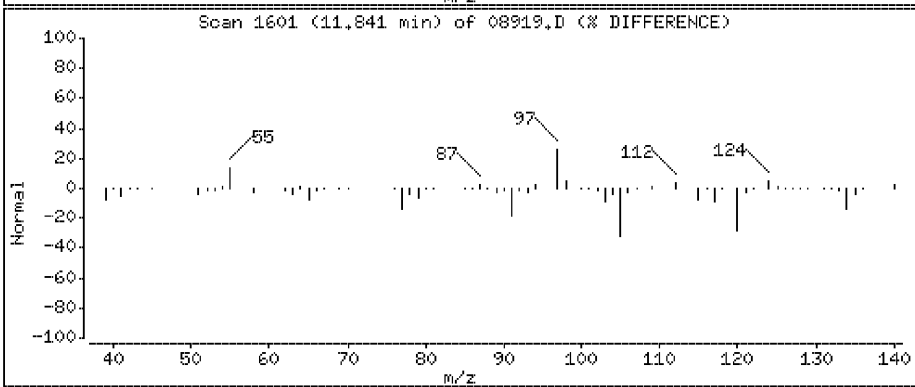
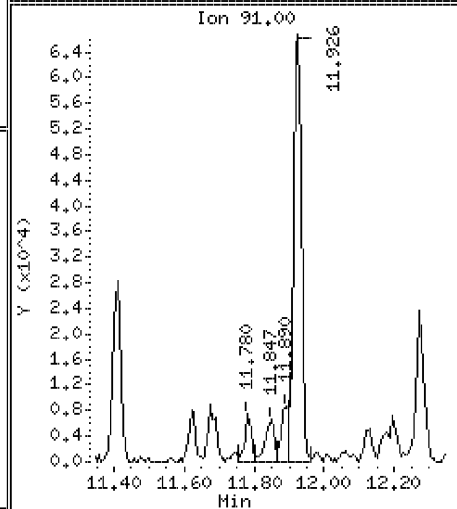
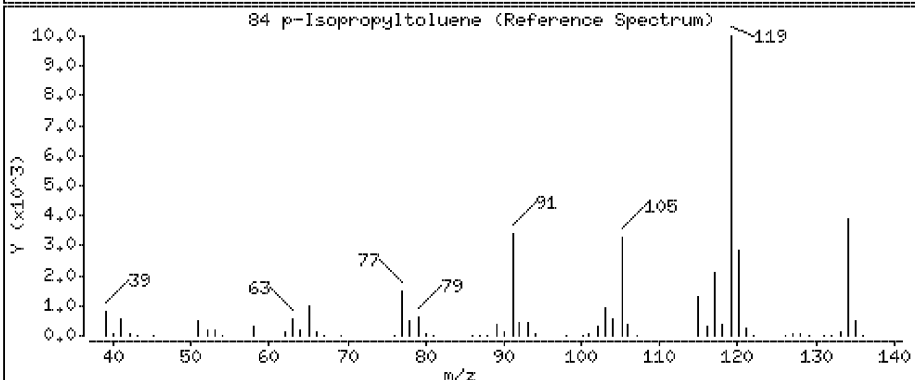
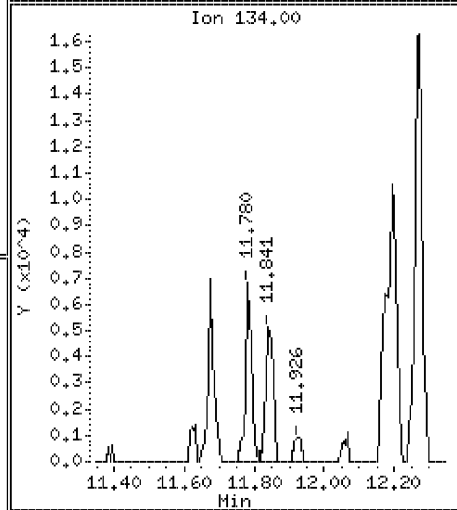
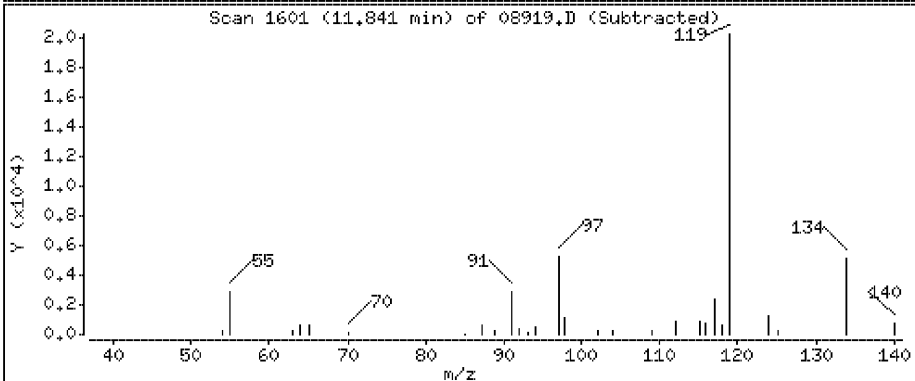
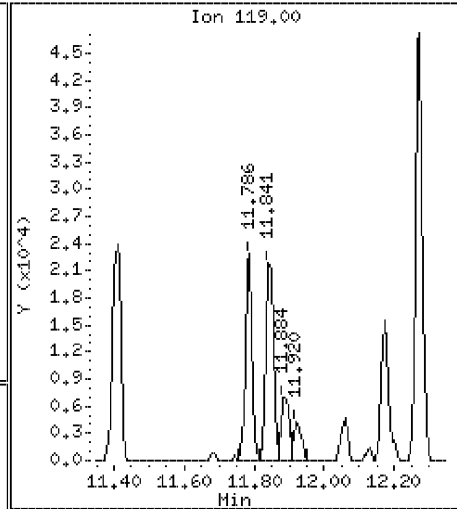
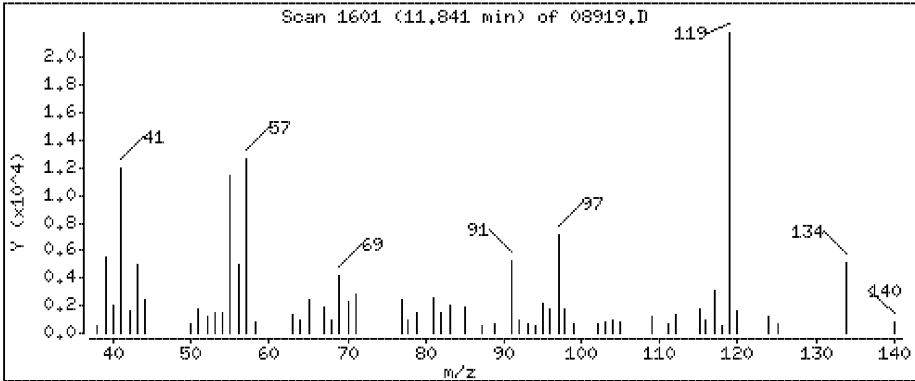
Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

83 1,4-Dichlorobenzene

Concentration: 0,224 ppbv





Data File: \\192.168.10.12\chem\10airI,1\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

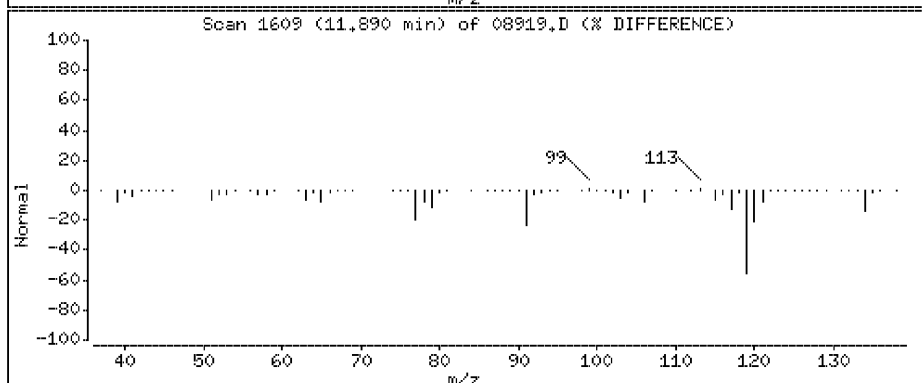
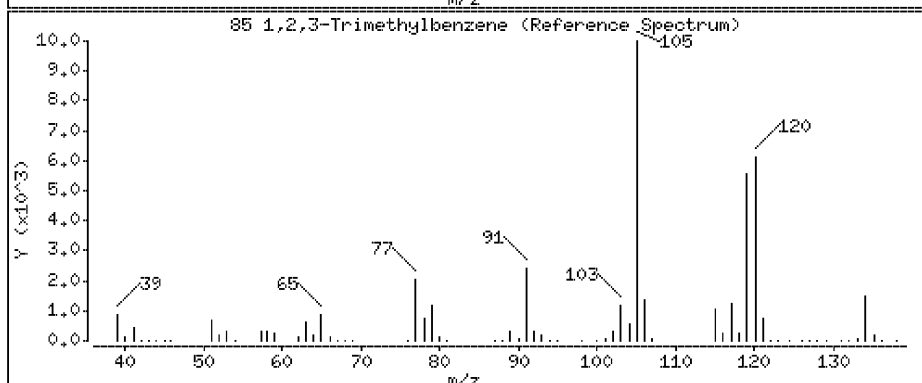
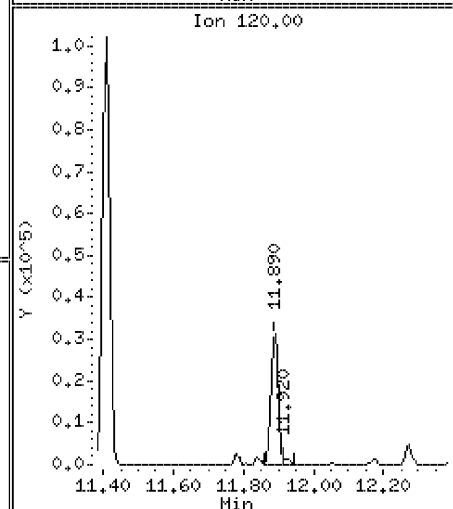
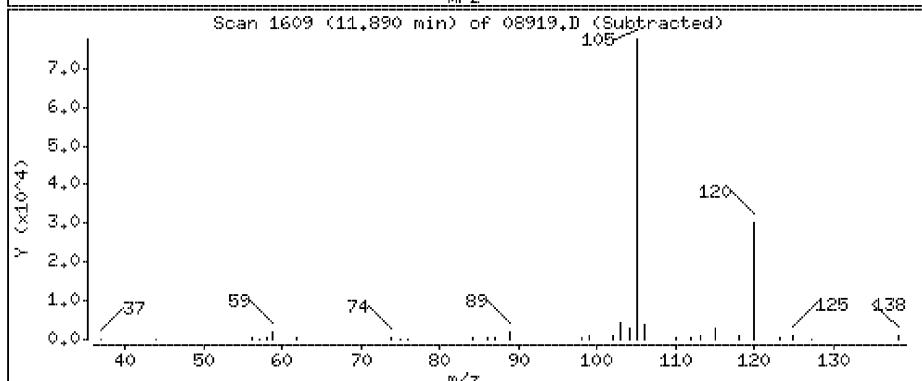
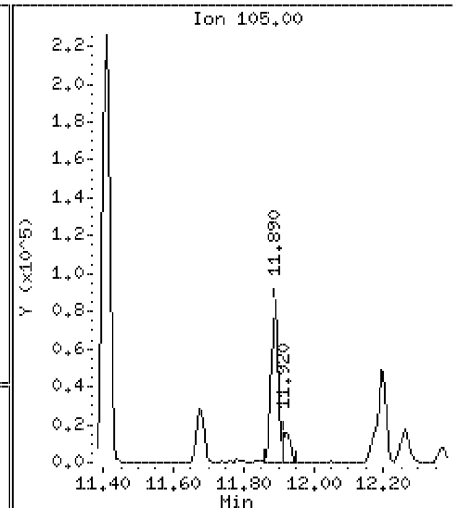
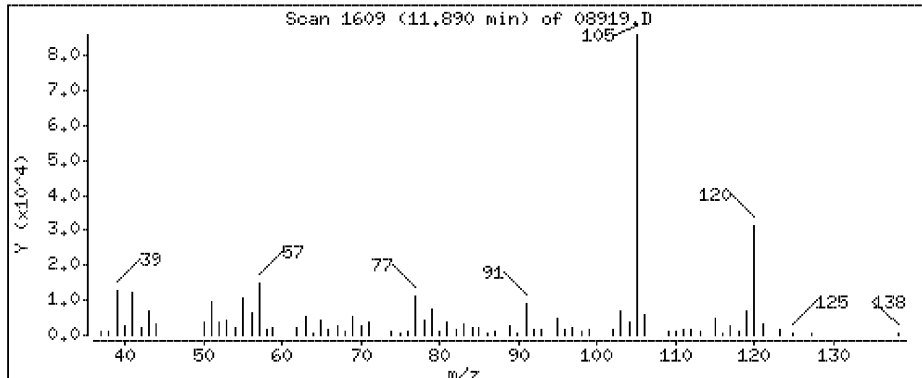
Operator: MJL

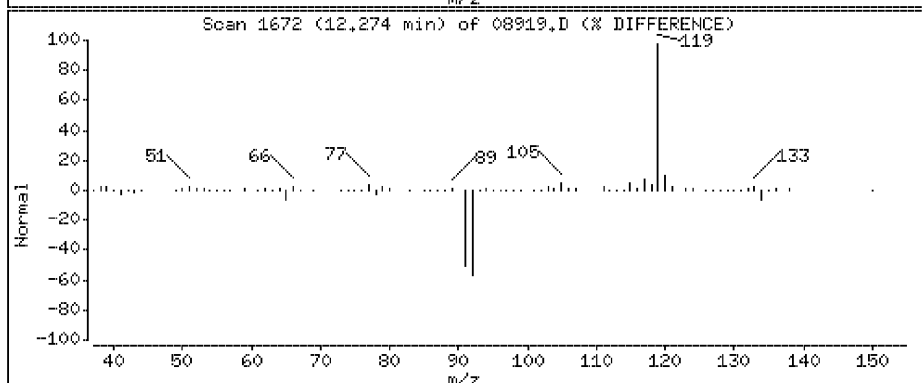
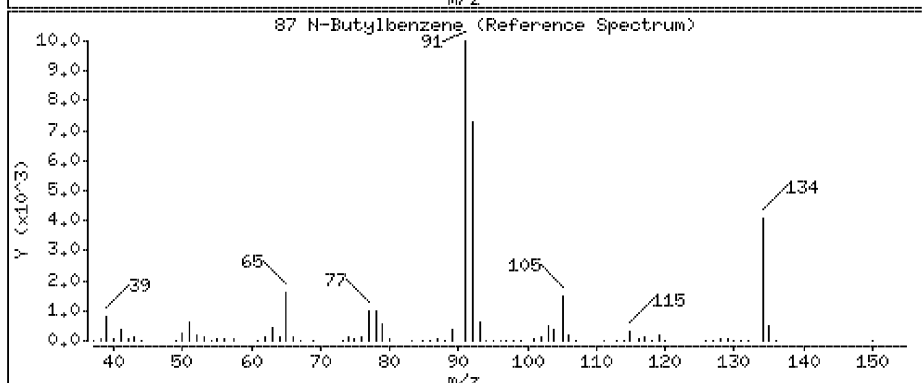
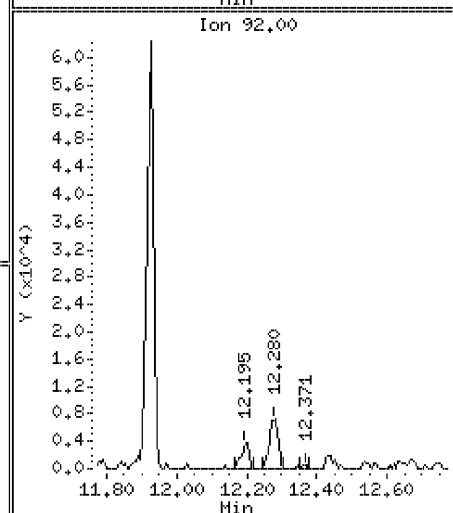
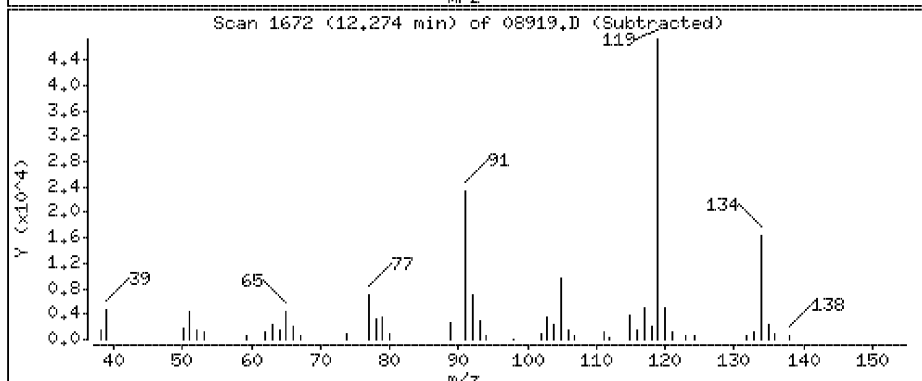
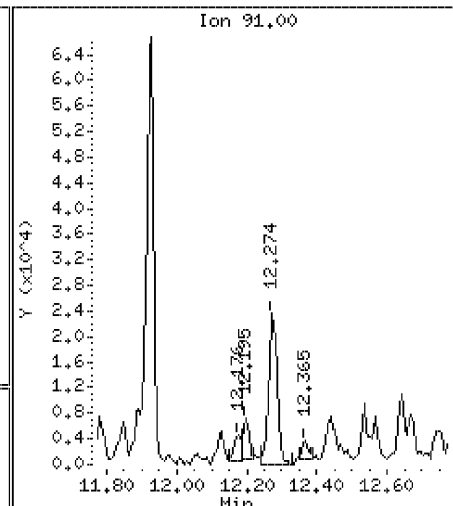
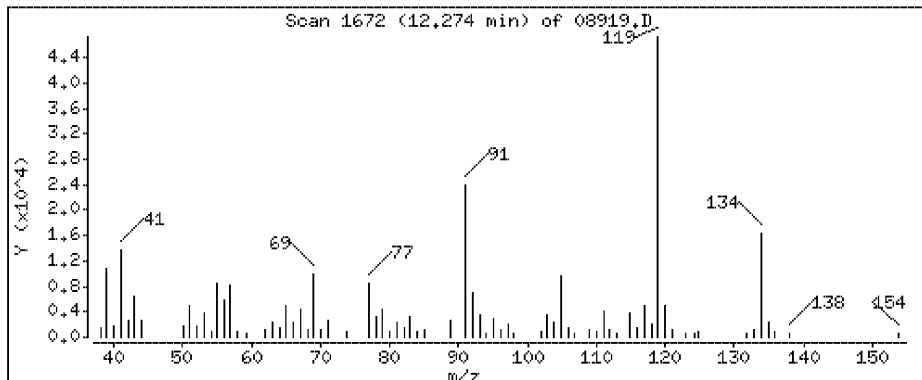
Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

85 1,2,3-Trimethylbenzene

Concentration: 1.26 ppbv





Data File: \\192.168.10.12\chem\10airI,i\033019,b\08919.D

Date : 30-MAR-2019 15:19

Client ID:

Instrument: 10airI.i

Sample Info:

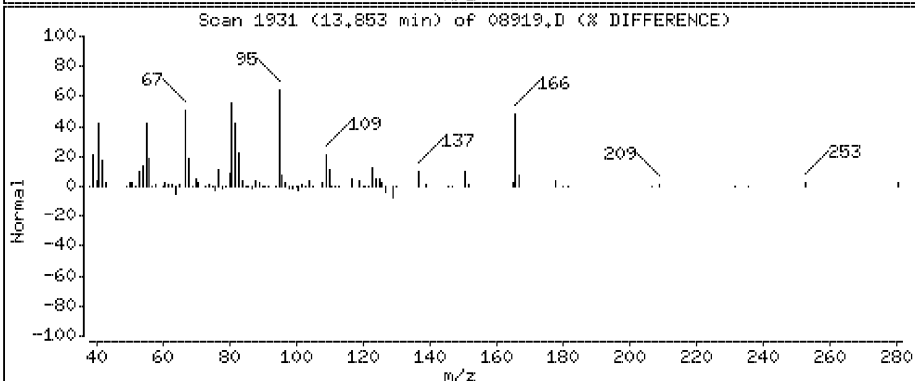
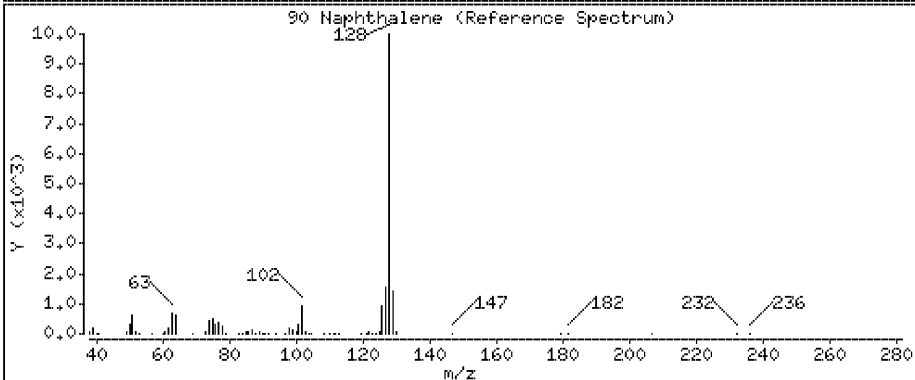
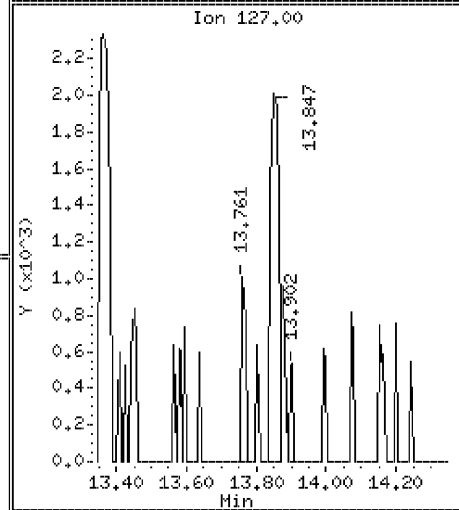
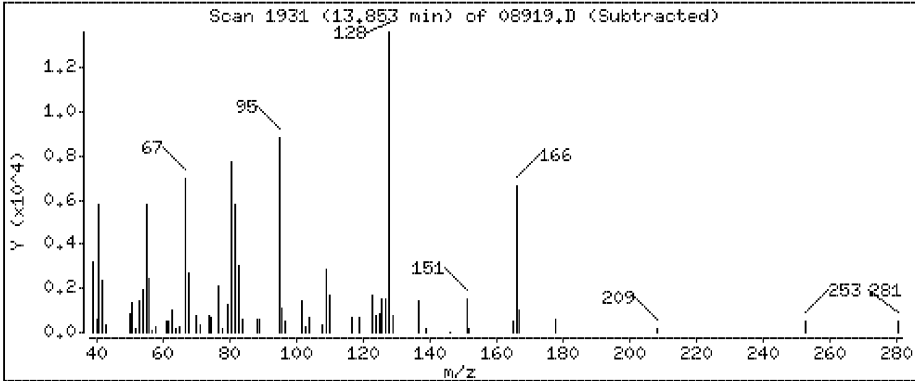
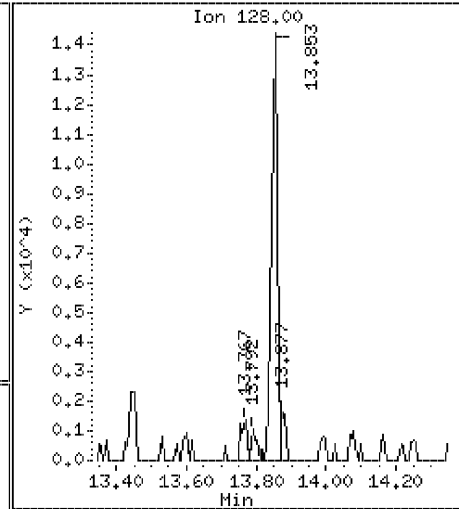
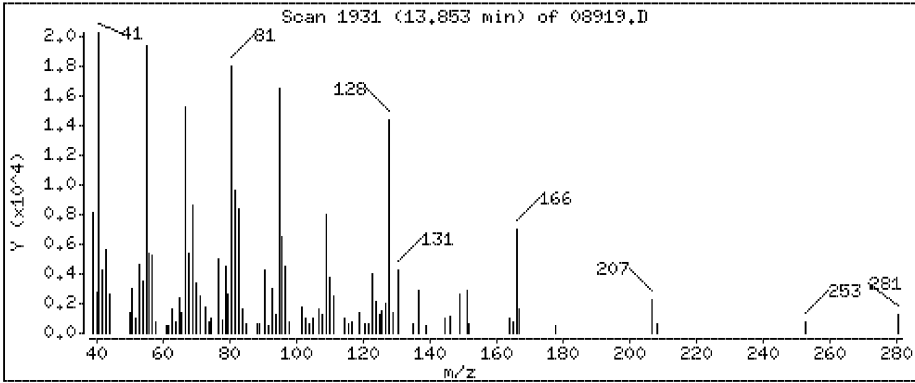
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

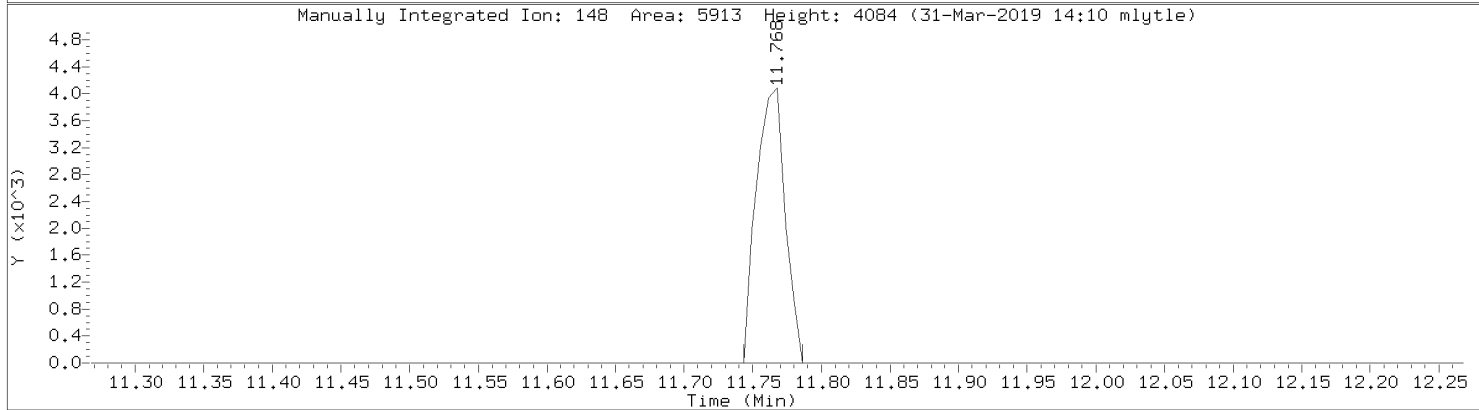
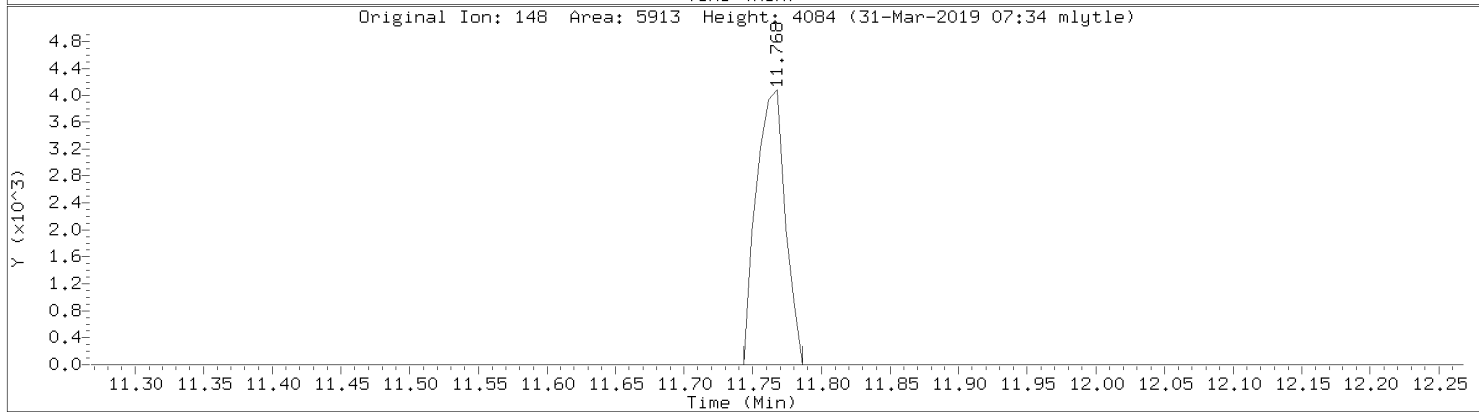
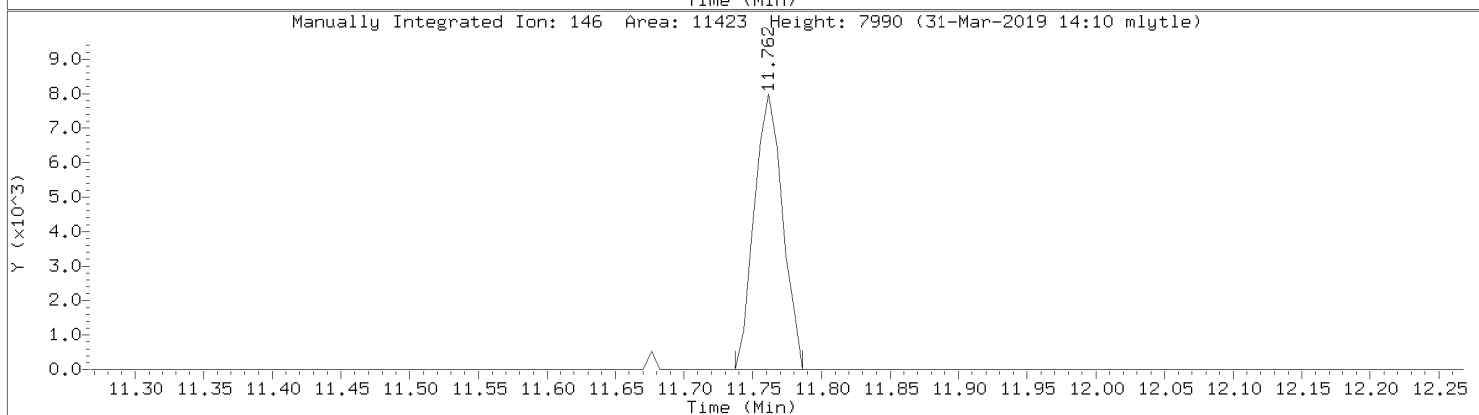
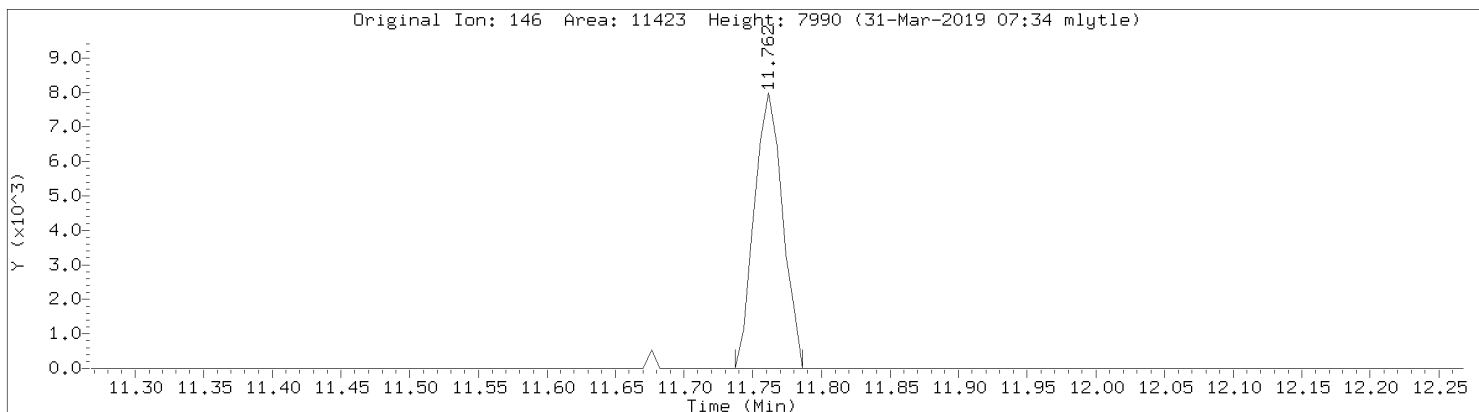
90 Naphthalene

Concentration: 0.230 ppbv

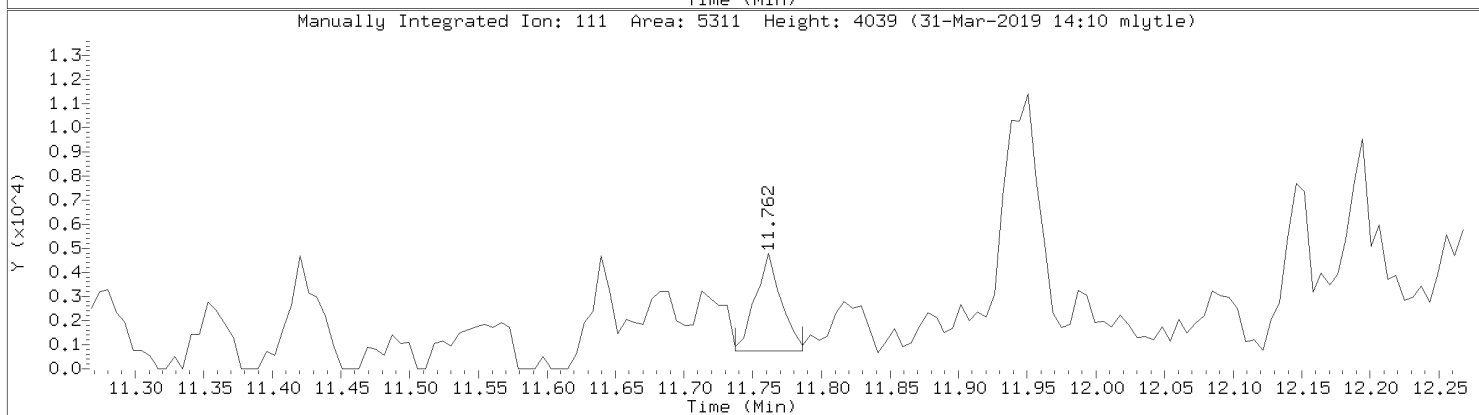
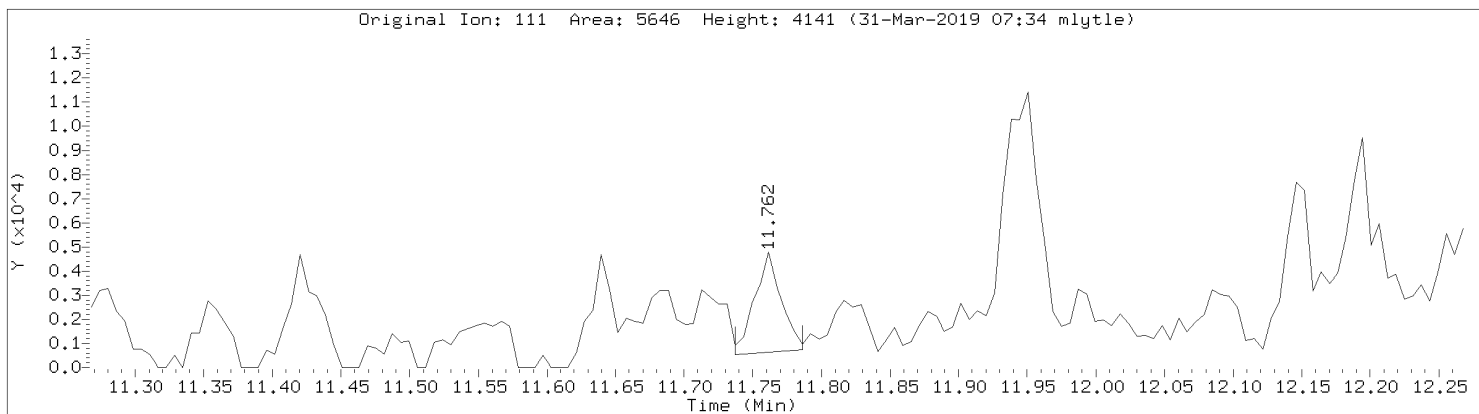


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08919.D
Injection Date: 30-MAR-2019 15:19
Instrument: 10airI.i
Lab Sample ID: 10468767009

Compound: 1,4-Dichlorobenzene
CAS Number: 106-46-7

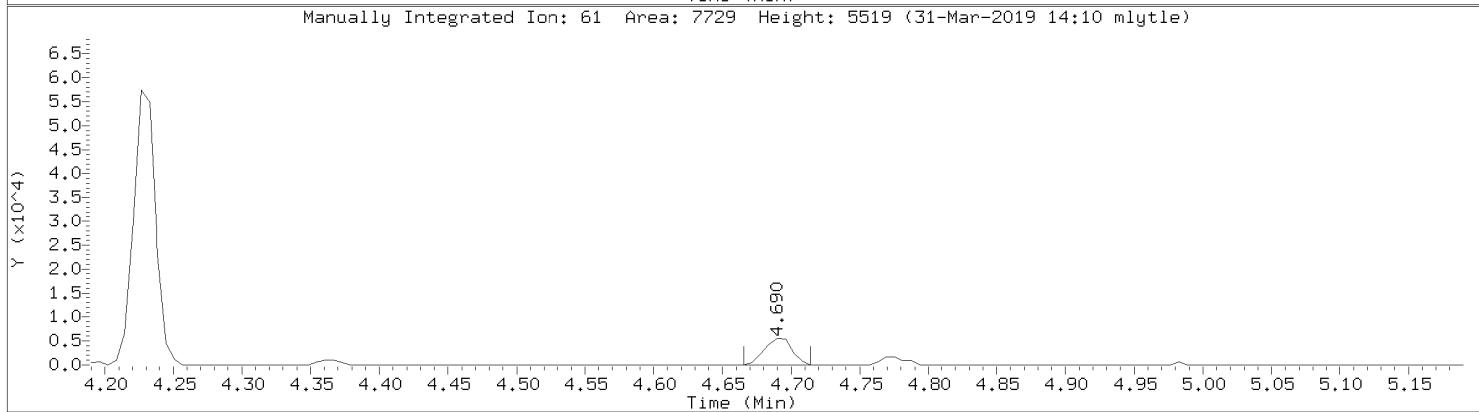
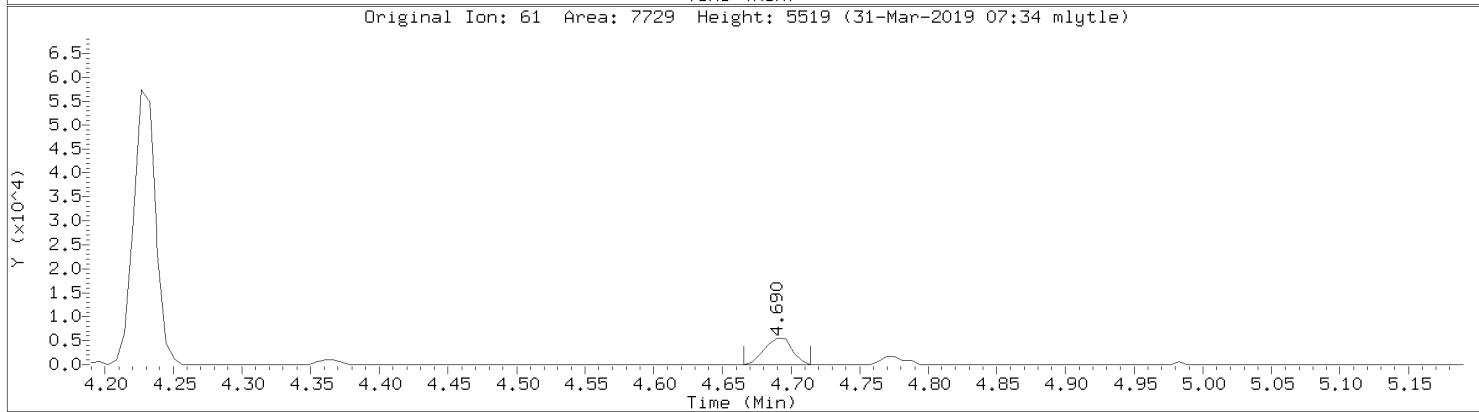
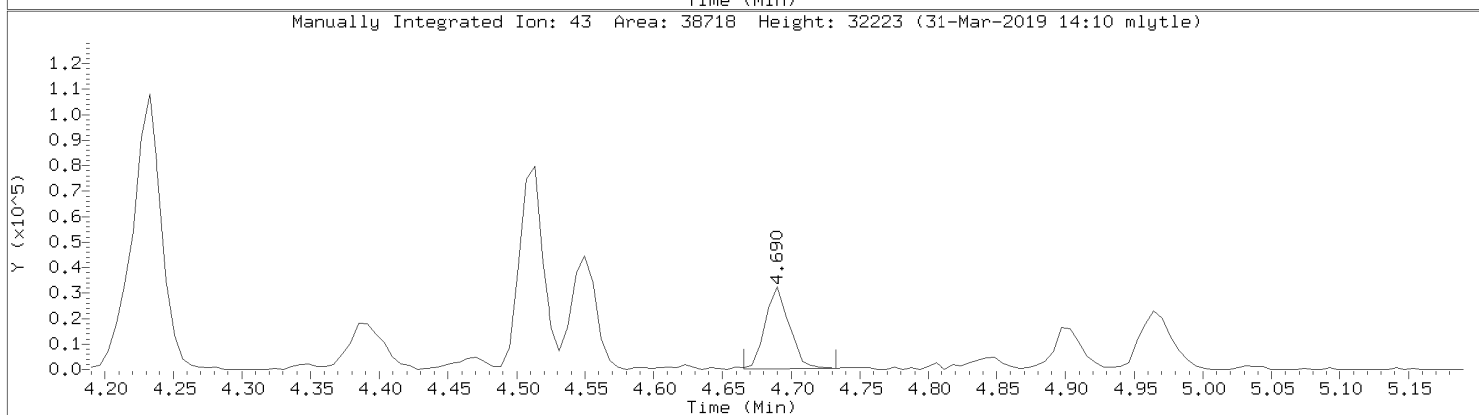
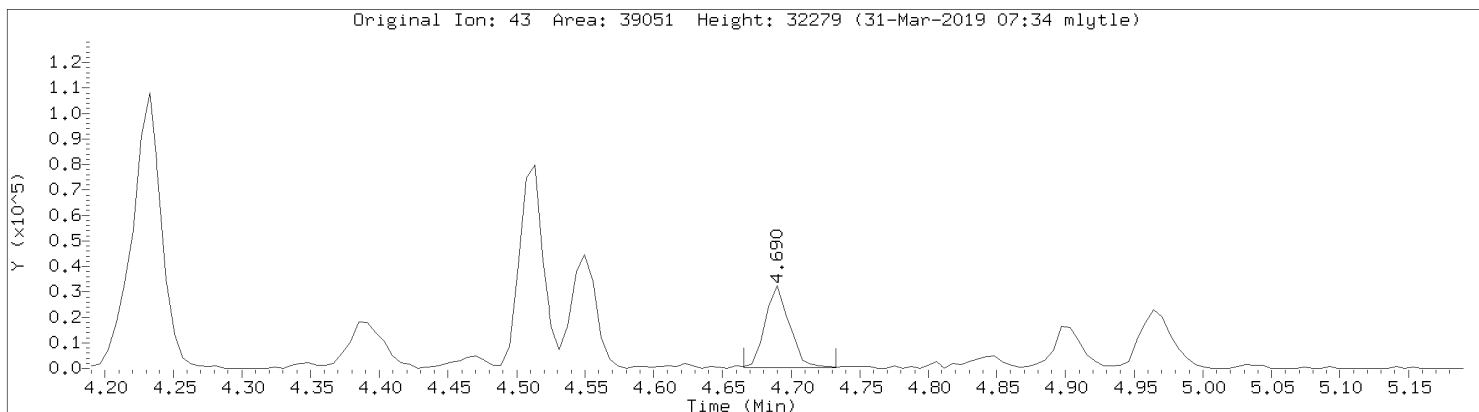


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Injection Date: 30-MAR-2019 15:19
Instrument: 10airI.i
Lab Sample ID: 10468767009

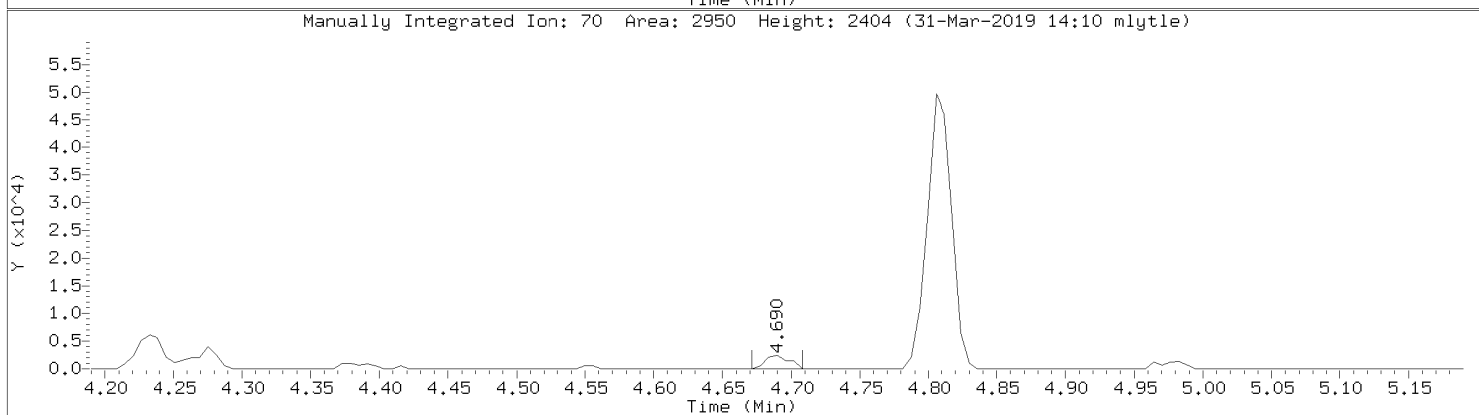
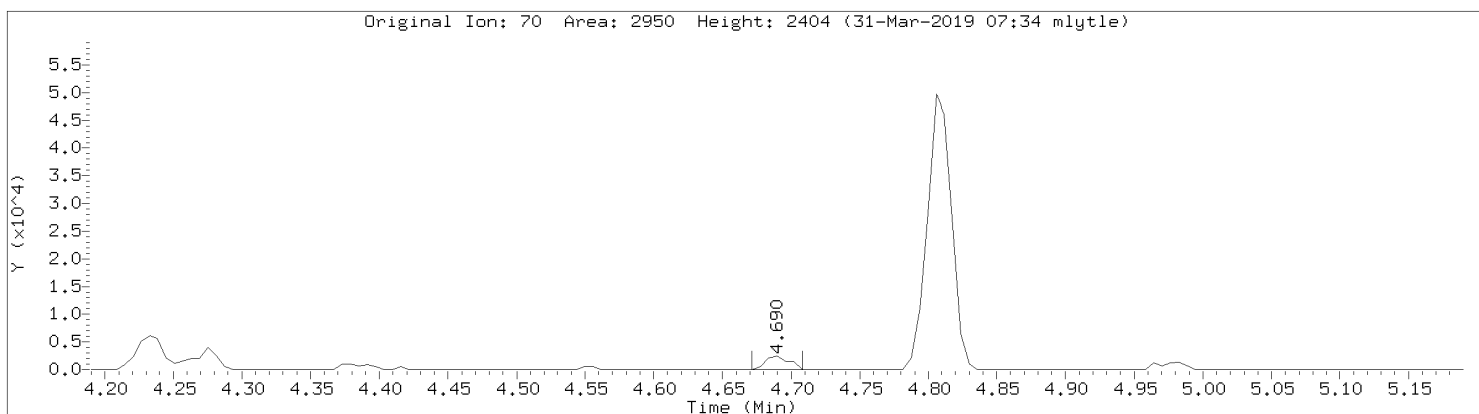


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08919.D
Injection Date: 30-MAR-2019 15:19
Instrument: 10airI.i
Lab Sample ID: 10468767009

Compound: Ethyl Acetate
CAS Number: 141-78-6

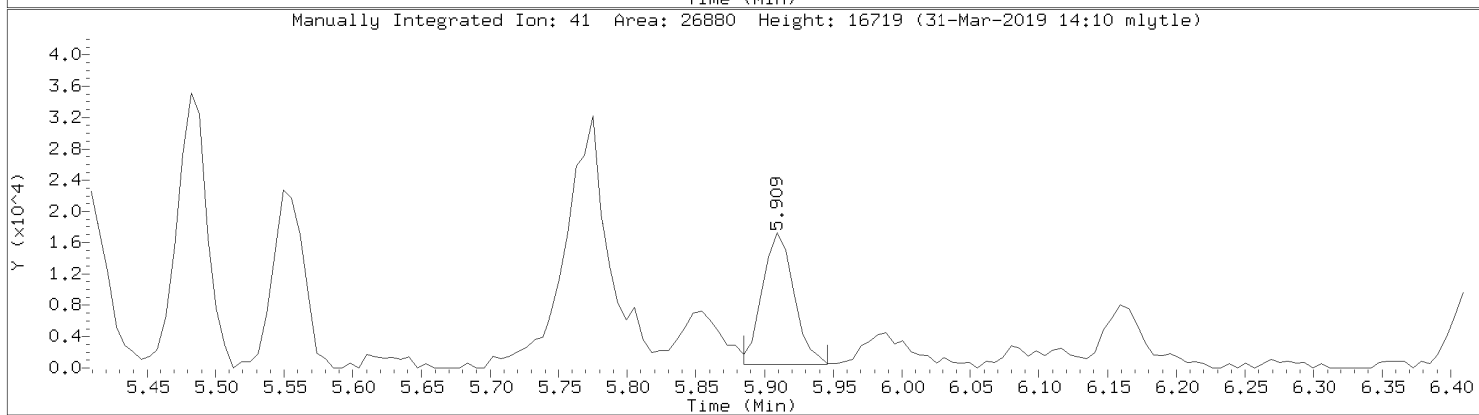
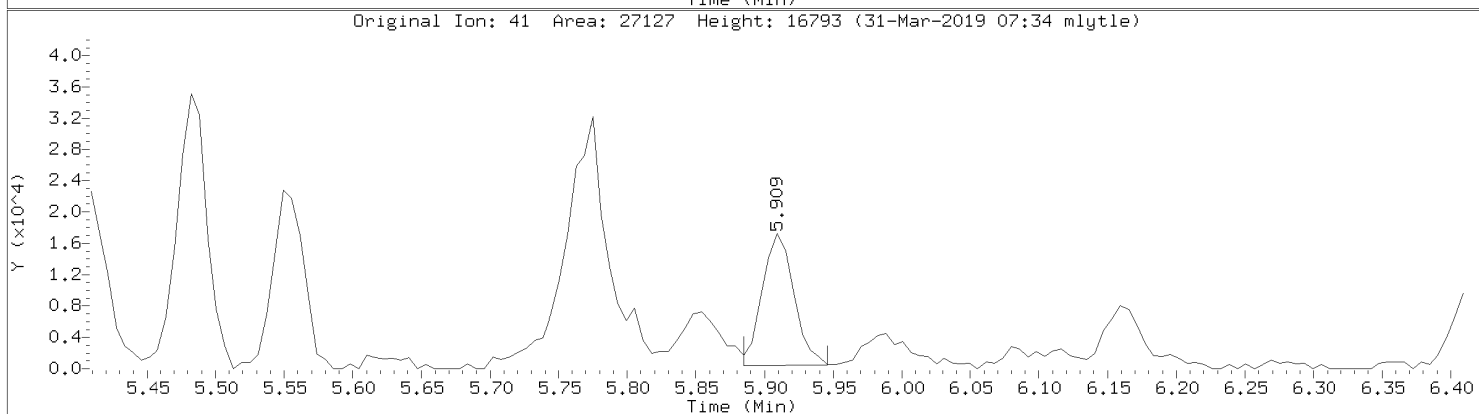
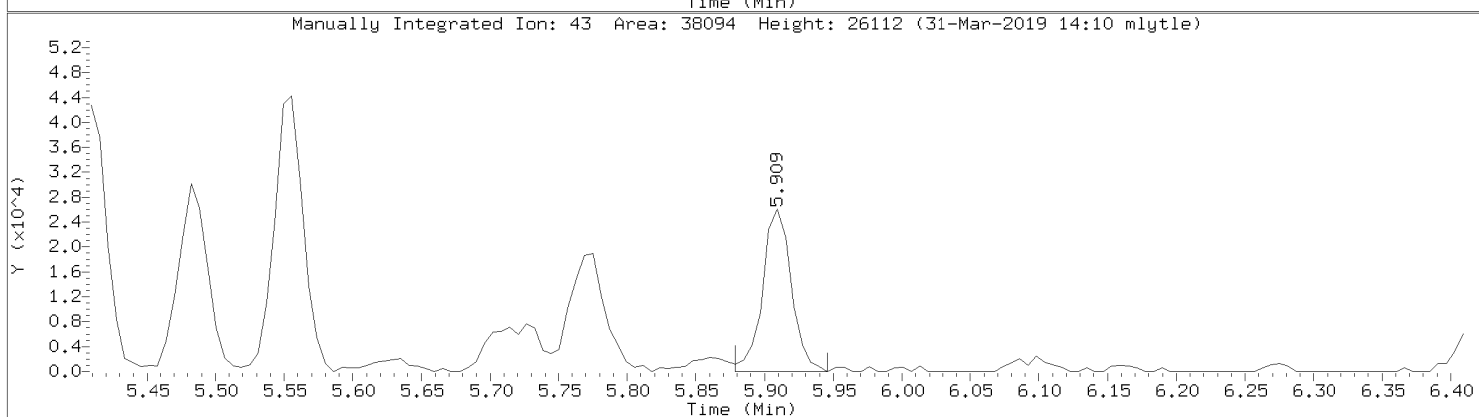
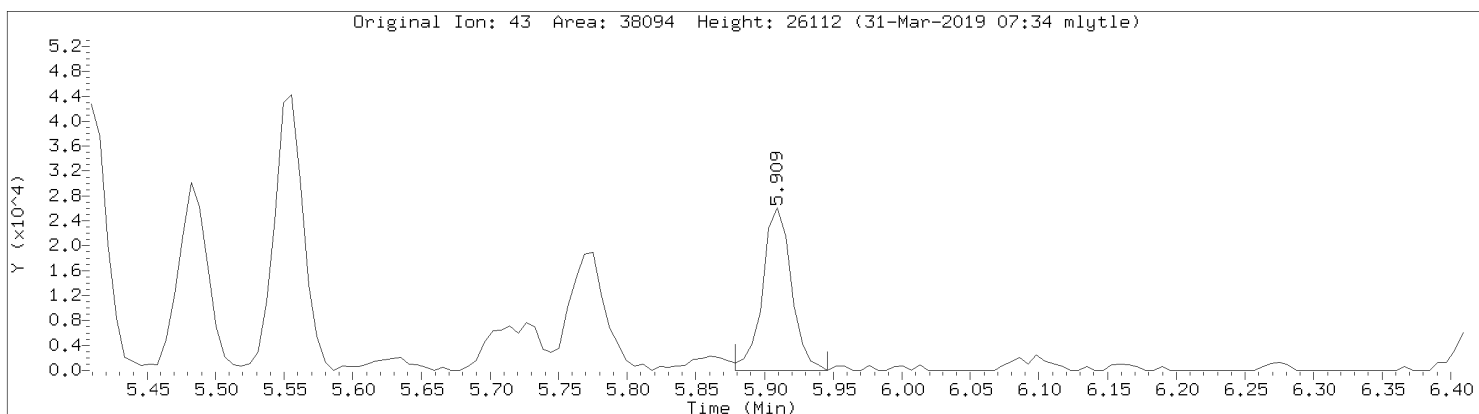


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08919.D
Injection Date: 30-MAR-2019 15:19
Instrument: 10airI.i
Lab Sample ID: 10468767009



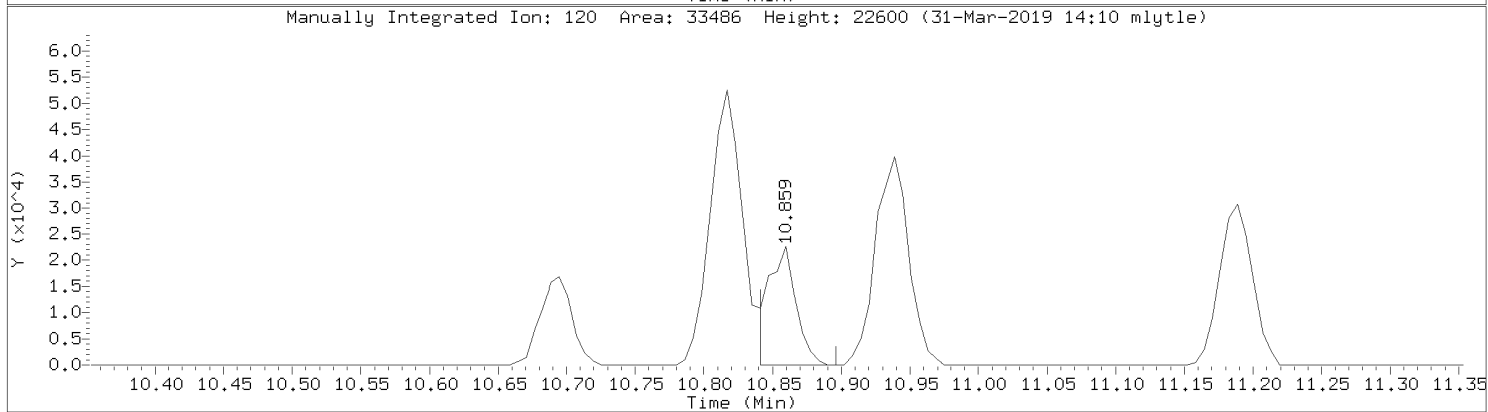
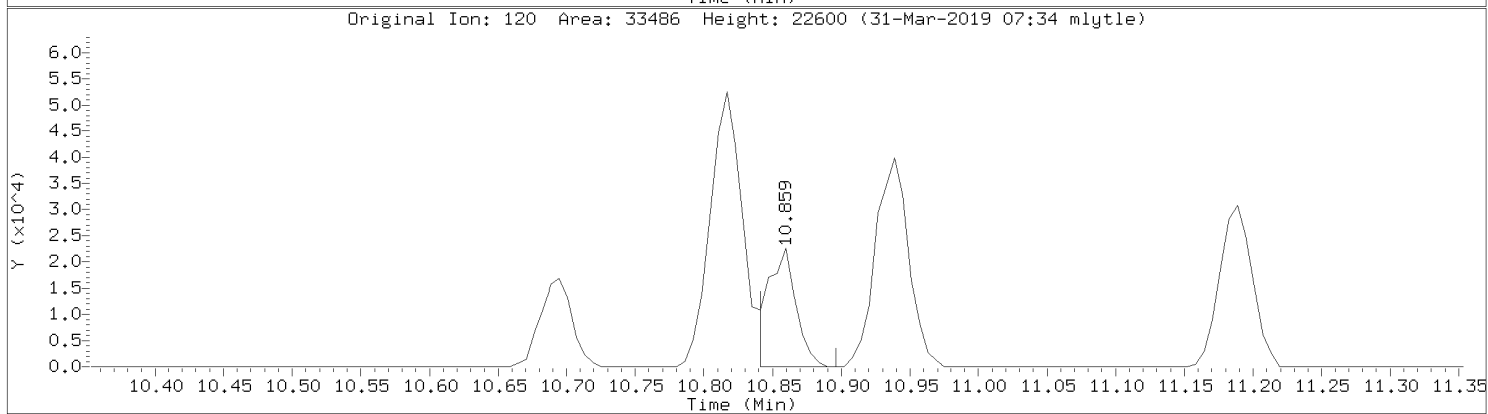
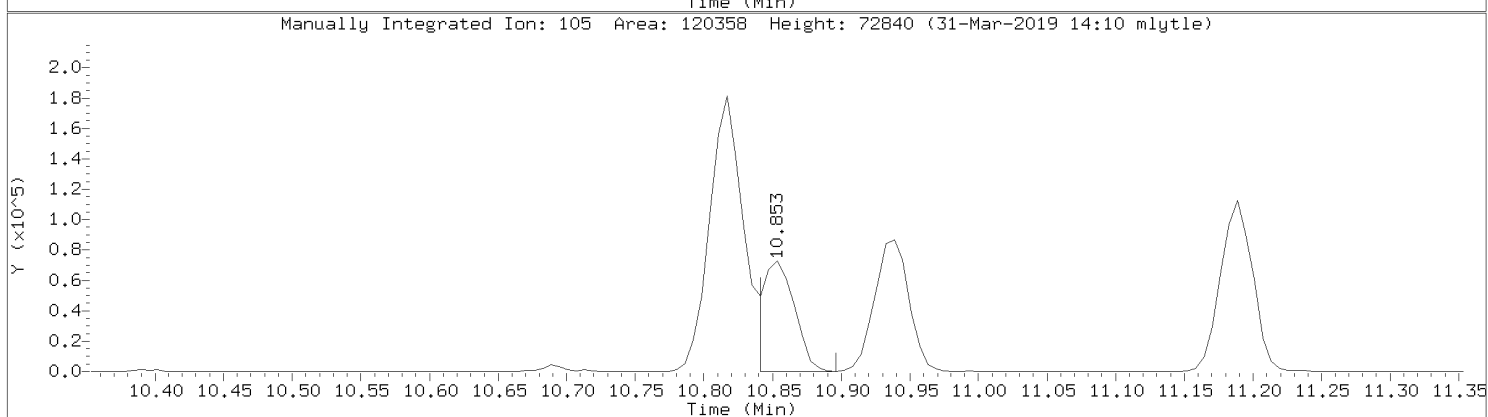
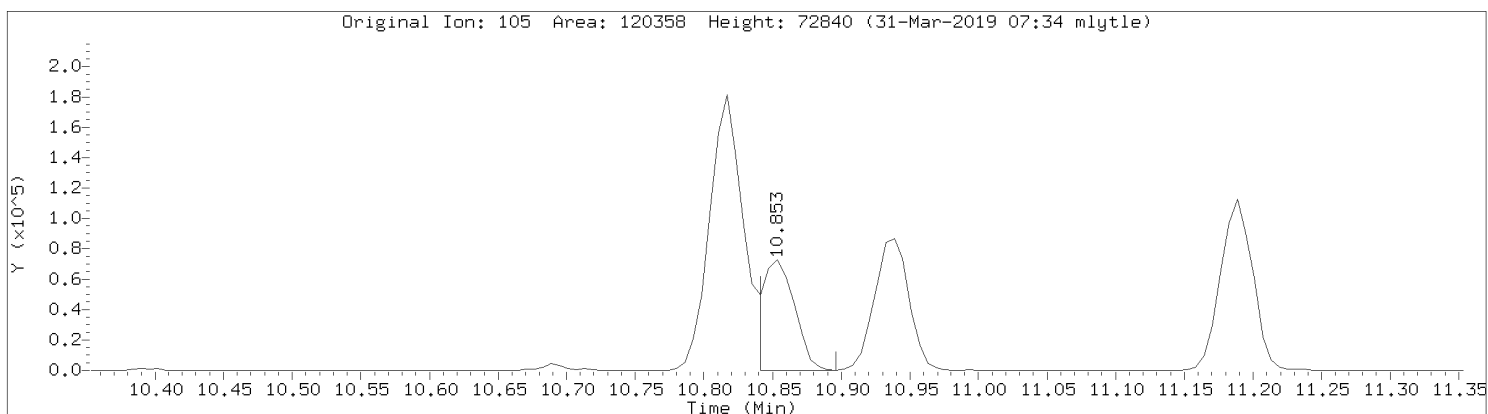
Data File: \\192.168.10.12\chem\10airI.i\033019.b\08919.D
Injection Date: 30-MAR-2019 15:19
Instrument: 10airI.i
Lab Sample ID: 10468767009

Compound: Heptane
CAS Number: 142-82-5

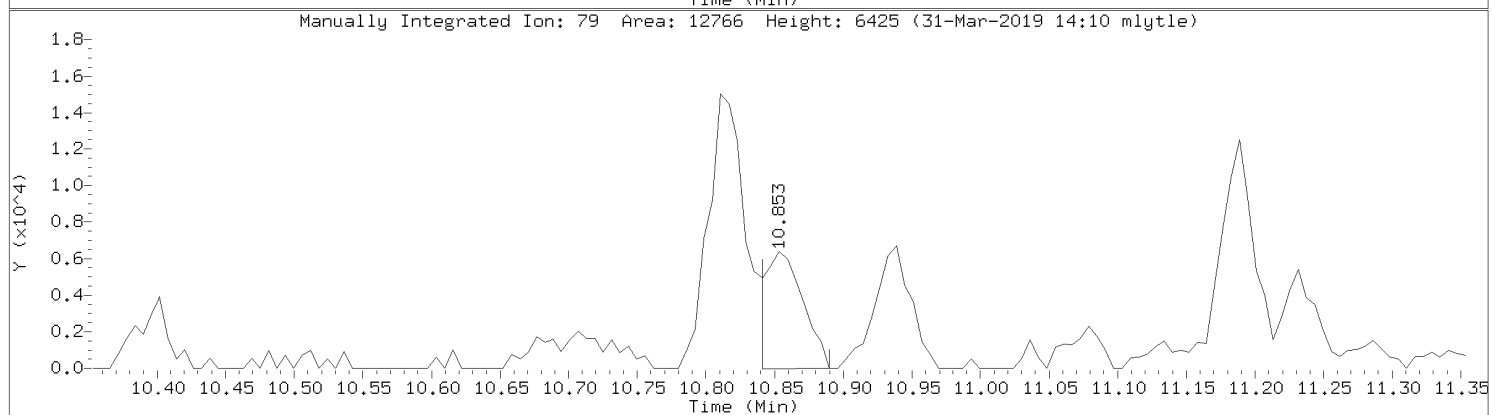
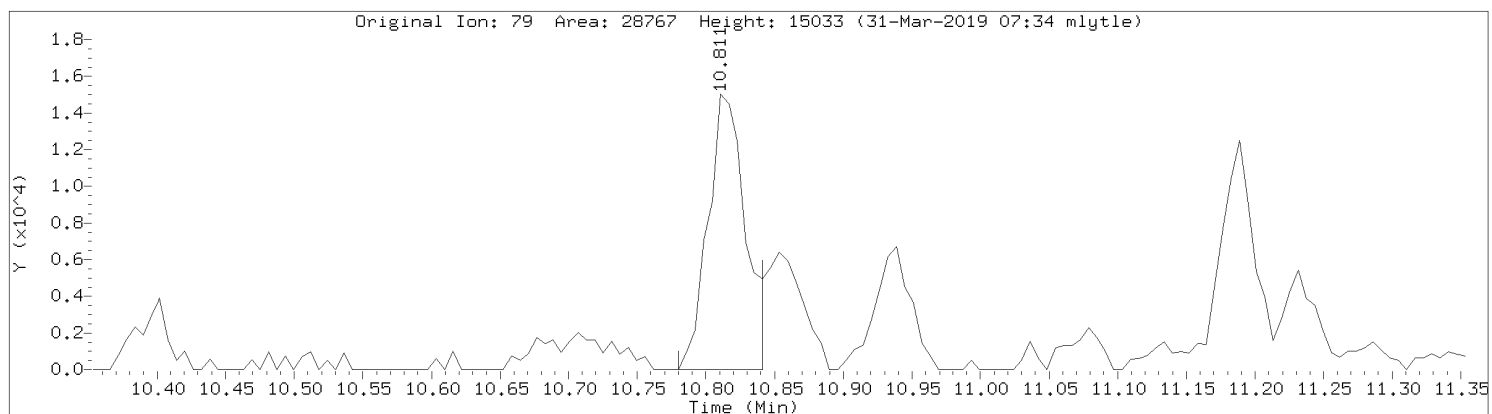


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08919.D
Injection Date: 30-MAR-2019 15:19
Instrument: 10airI.i
Lab Sample ID: 10468767009

Compound: 4-Ethyltoluene
CAS Number: 622-96-8

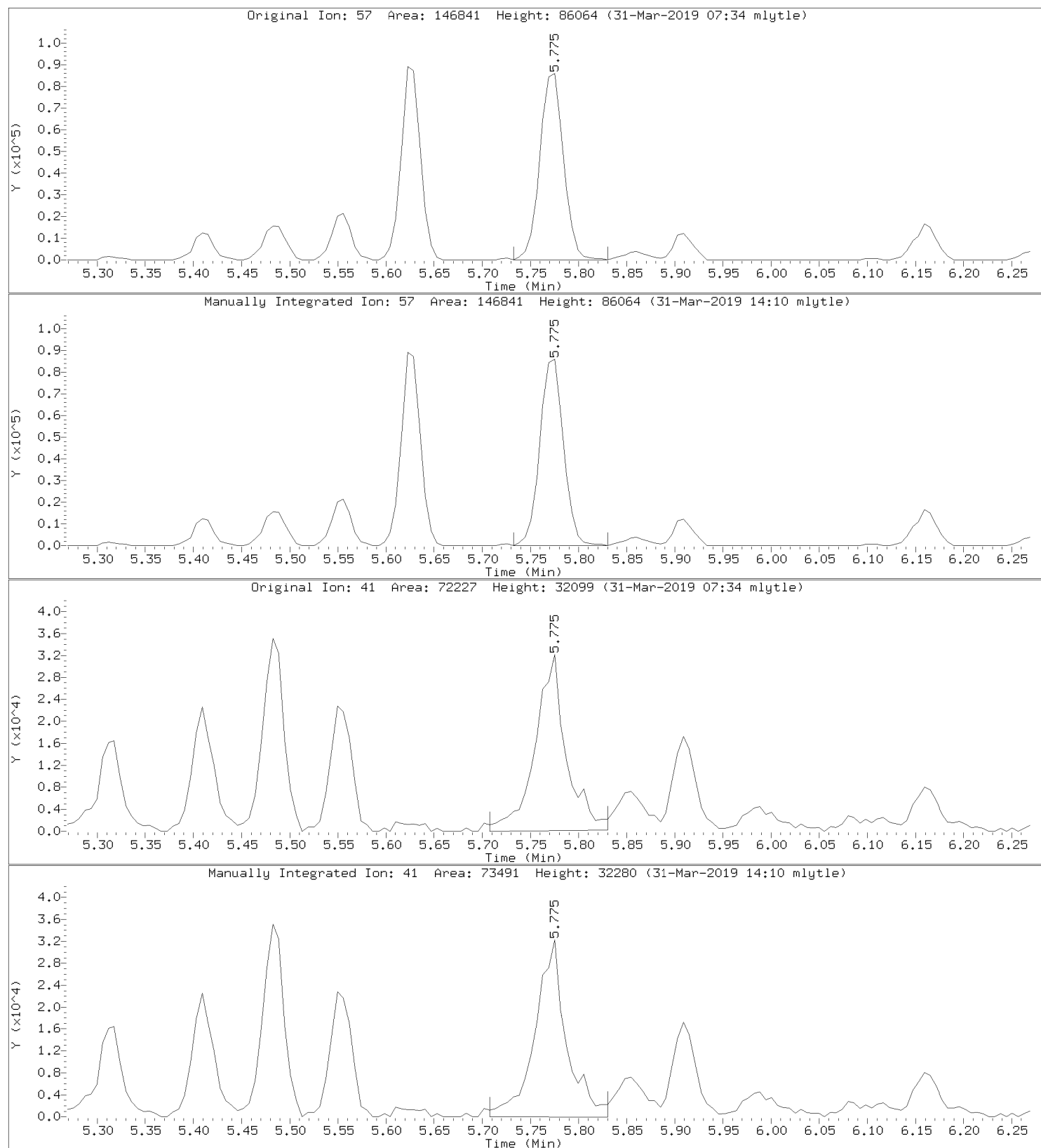


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08919.D
Injection Date: 30-MAR-2019 15:19
Instrument: 10airI.i
Lab Sample ID: 10468767009

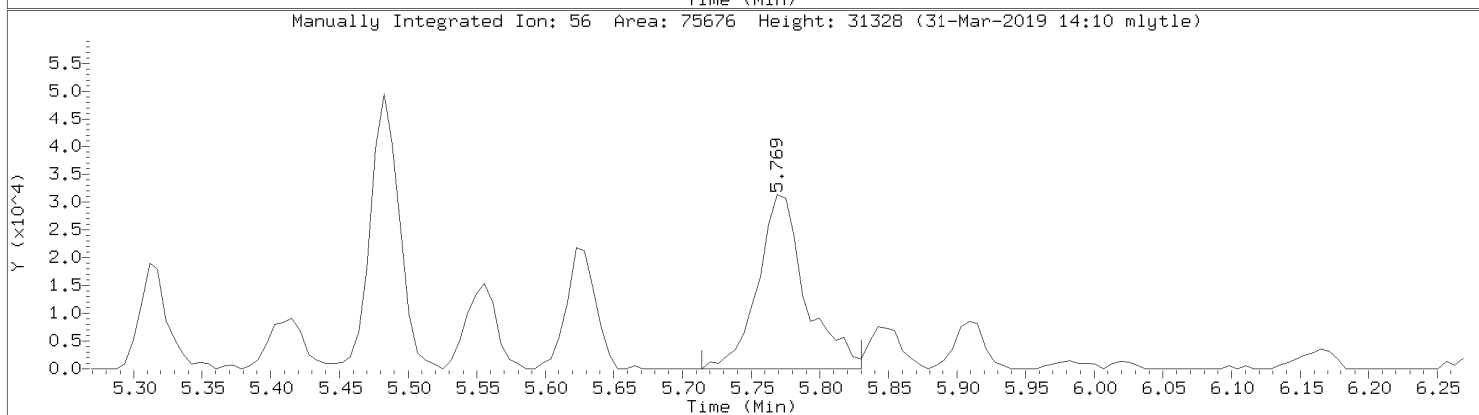
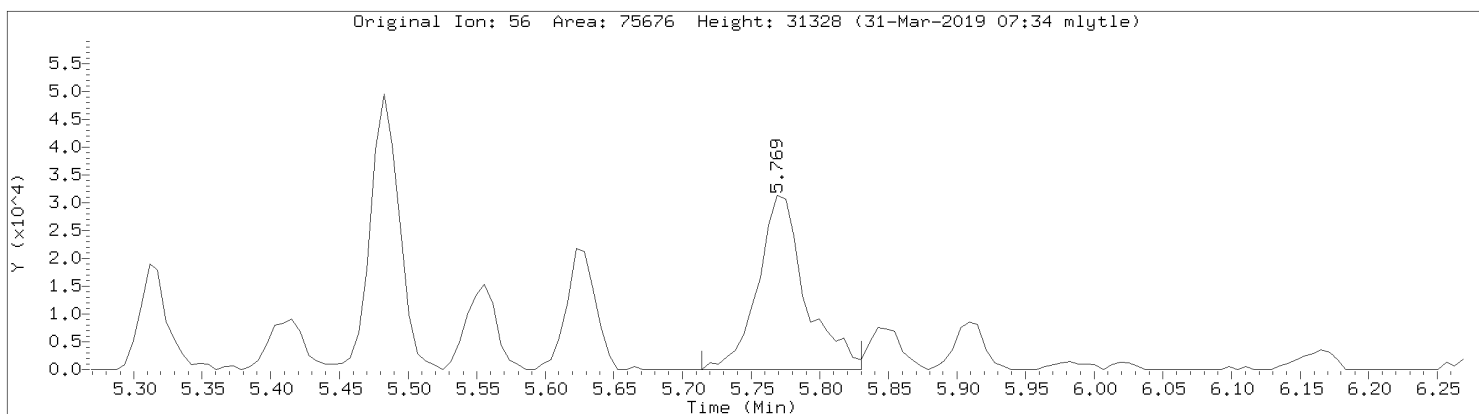


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08919.D
Injection Date: 30-MAR-2019 15:19
Instrument: 10airI.i
Lab Sample ID: 10468767009

Compound: 2,2,4-Trimethylpentane
CAS Number: 540-84-1

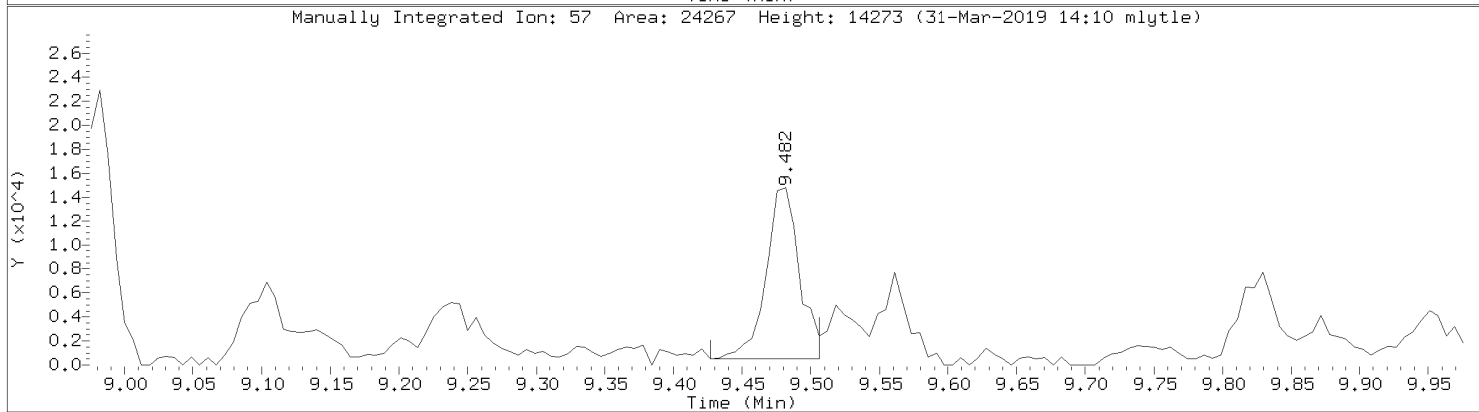
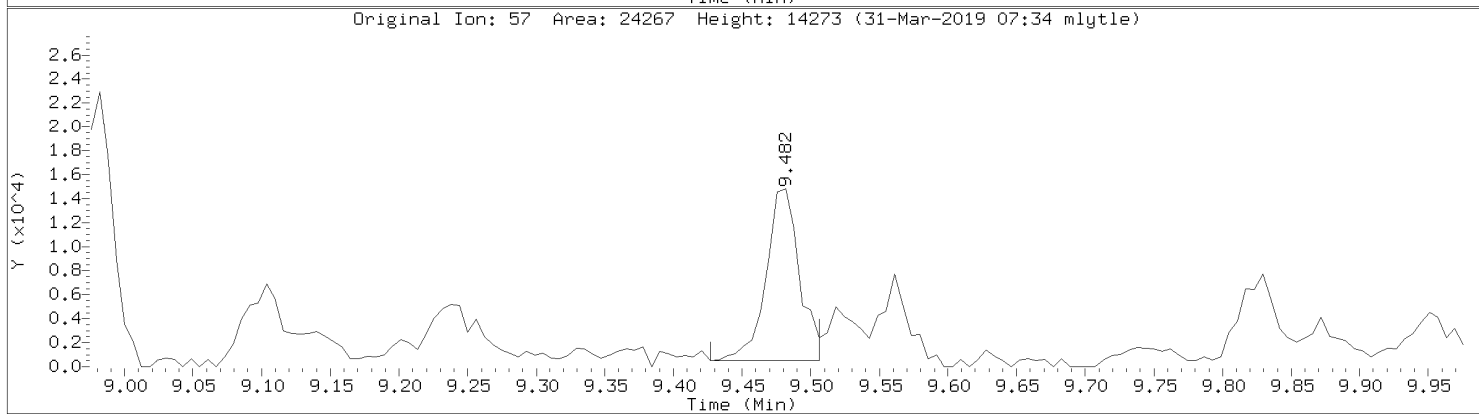
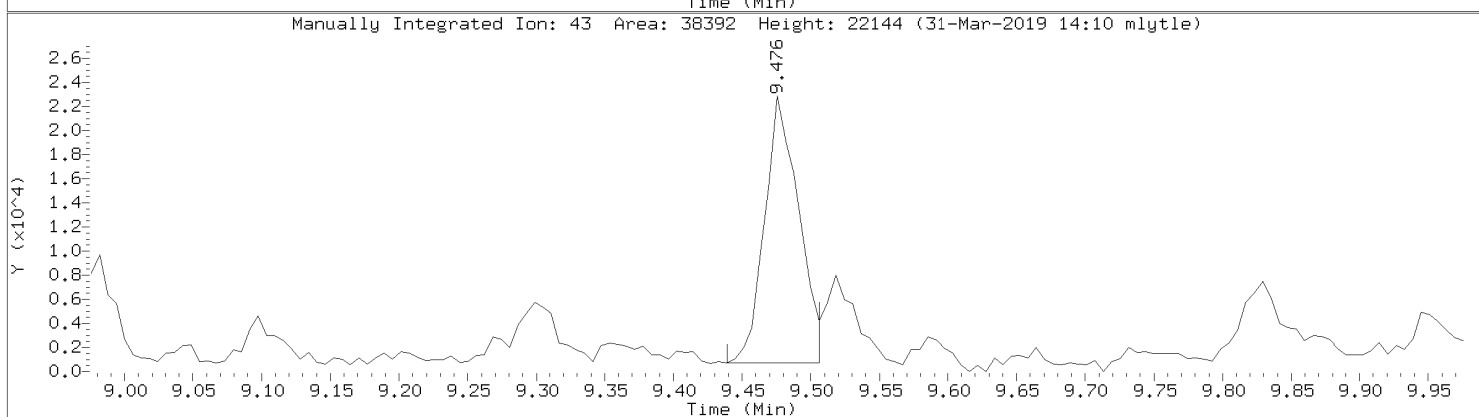
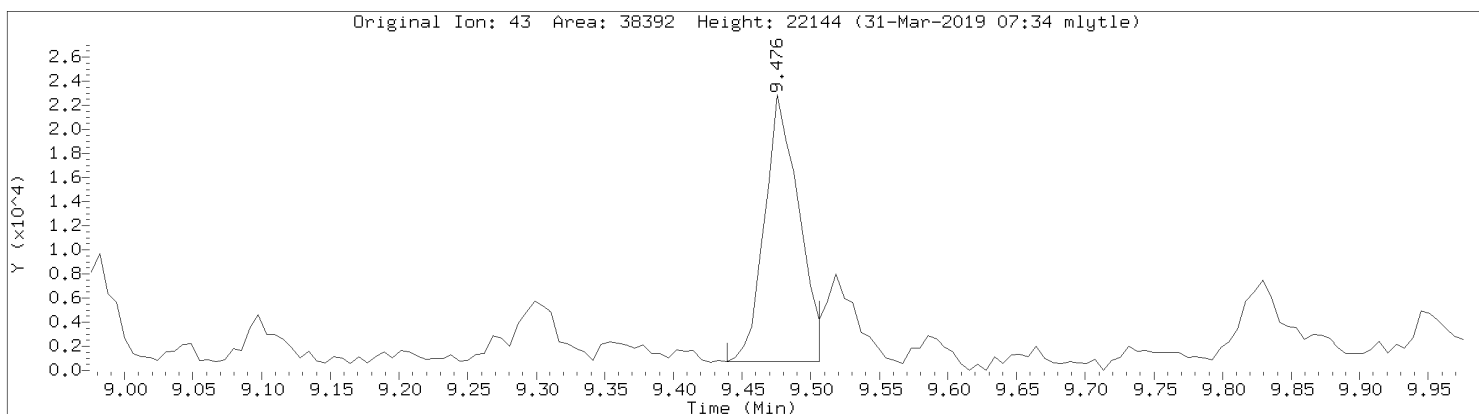


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Injection Date: 30-MAR-2019 15:19
Instrument: 10airI.i
Lab Sample ID: 10468767009

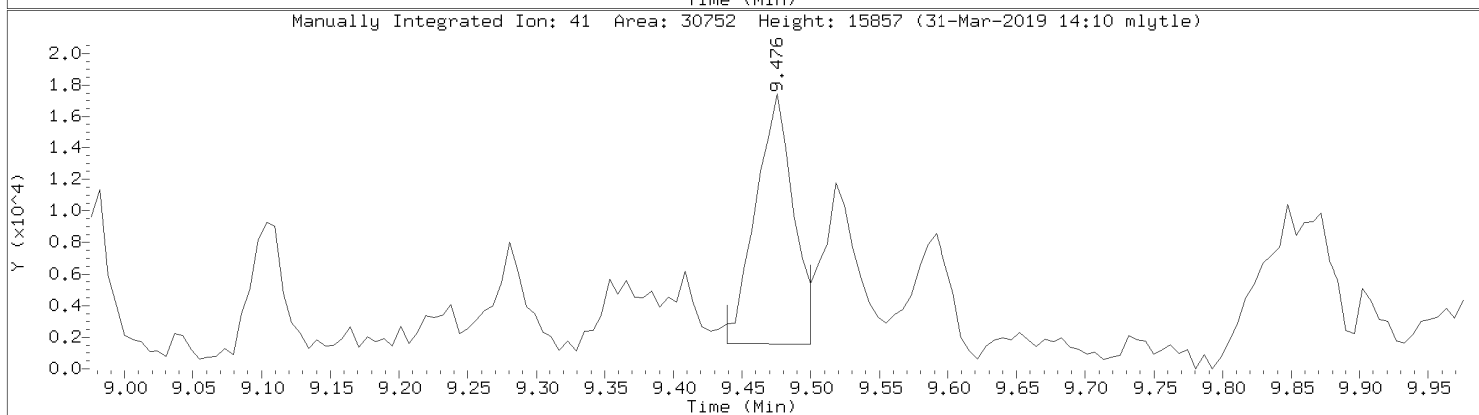
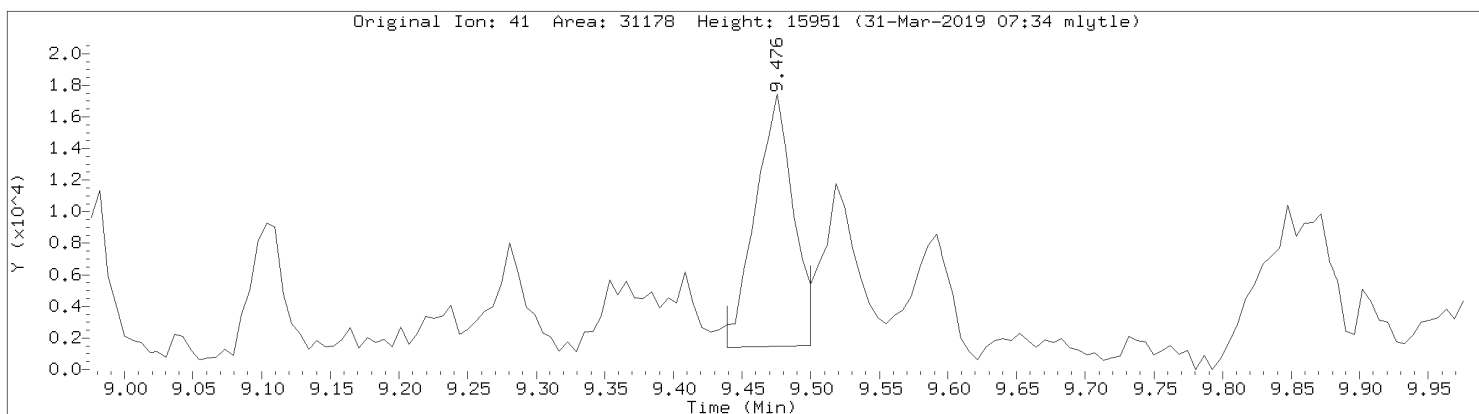


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08919.D
Injection Date: 30-MAR-2019 15:19
Instrument: 10airI.i
Lab Sample ID: 10468767009

Compound: n-Nonane
CAS Number: 111-84-2

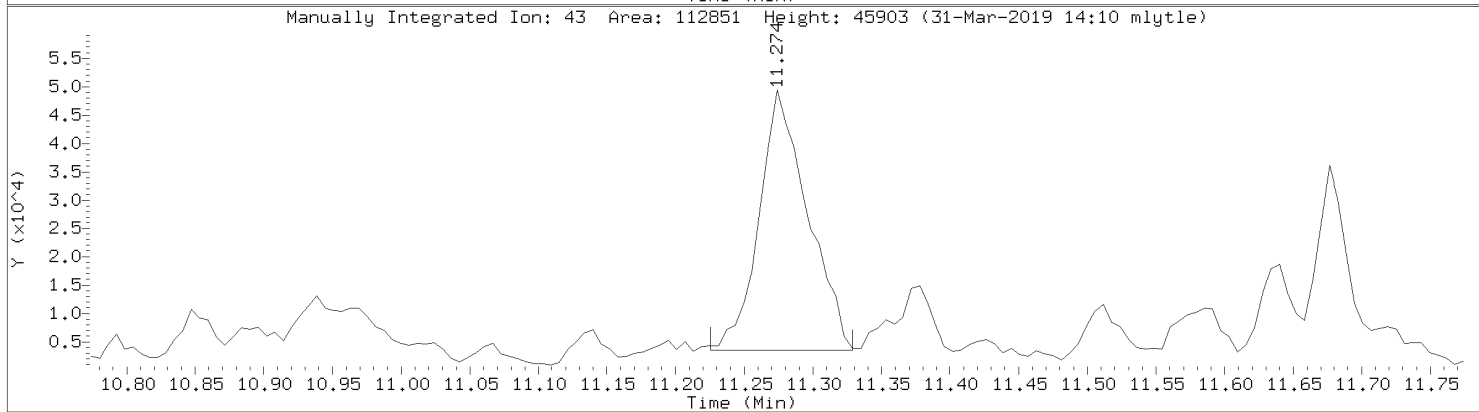
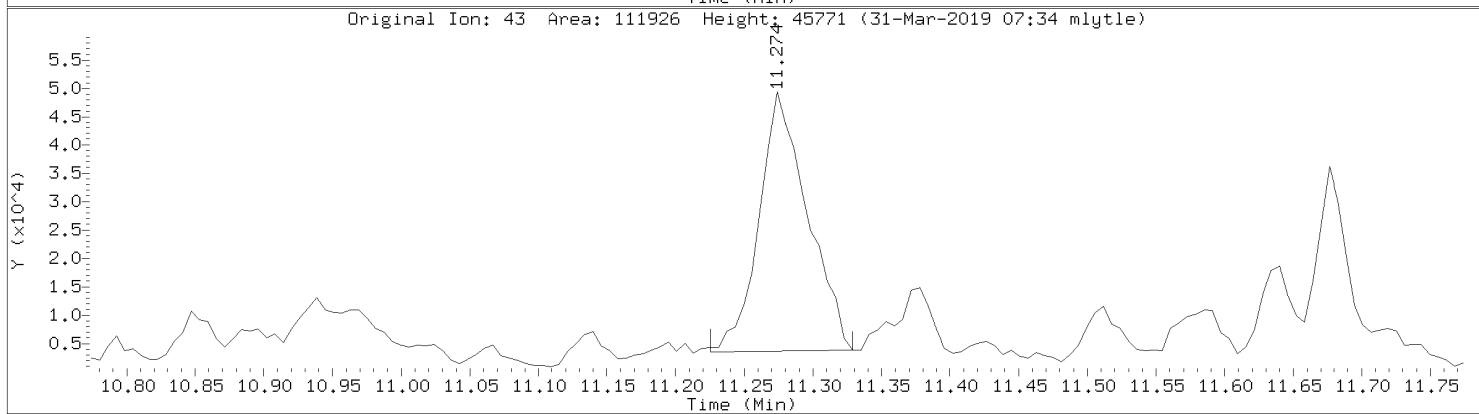
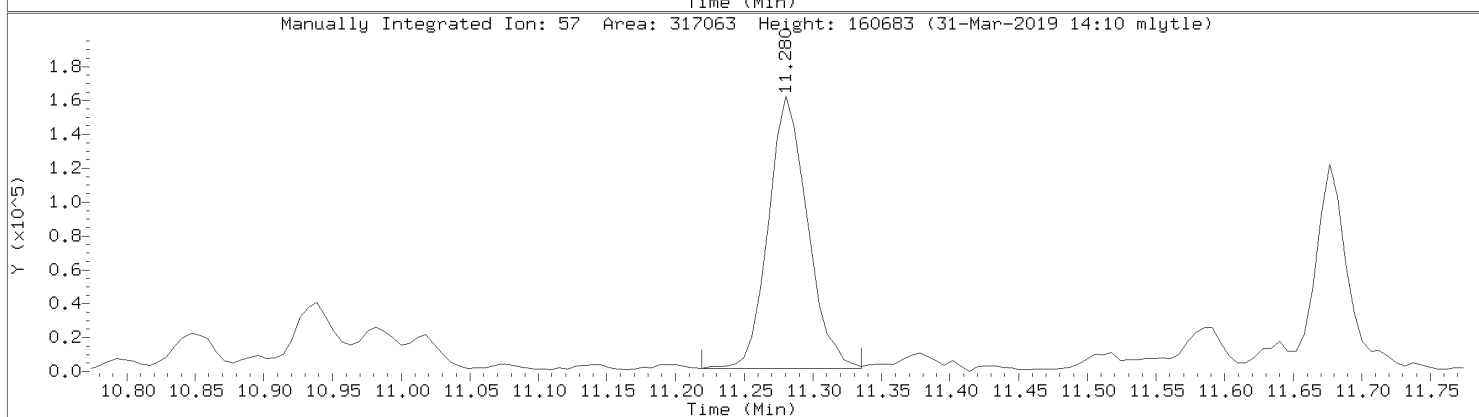
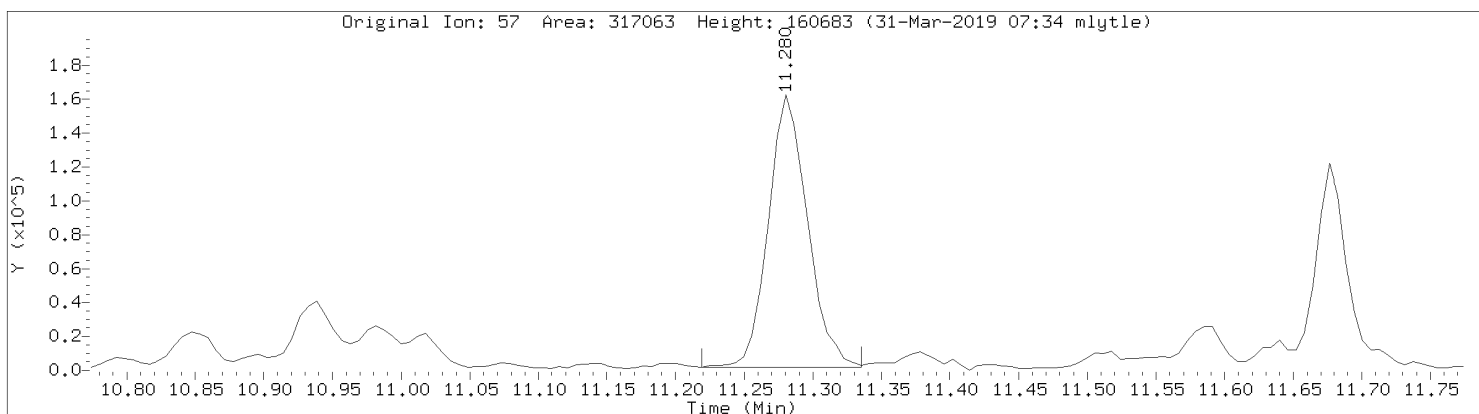


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Injection Date: 30-MAR-2019 15:19
Instrument: 10airI.i
Lab Sample ID: 10468767009

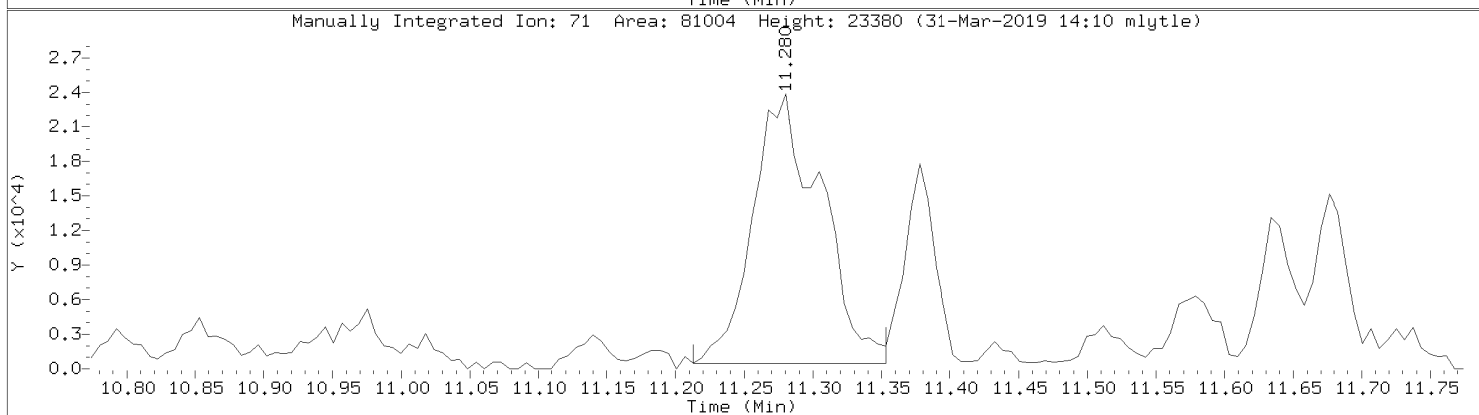
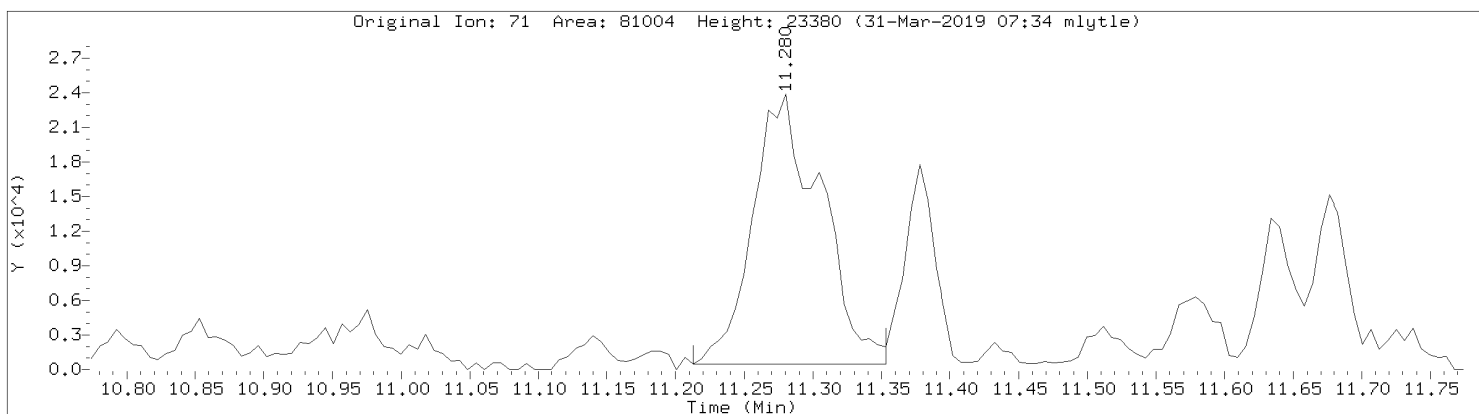


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08919.D
Injection Date: 30-MAR-2019 15:19
Instrument: 10airI.i
Lab Sample ID: 10468767009

Compound: n-Decane
CAS Number: 124-18-5



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08919.D
Injection Date: 30-MAR-2019 15:19
Instrument: 10airI.i
Lab Sample ID: 10468767009



Data File: \\192.168.10.12\chem\10airH.i\033119.b\09025.D
 Report Date: 01-Apr-2019 10:24

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airH.i\033119.b\09025.D
 Lab Smp Id: 10468767011
 Inj Date : 31-MAR-2019 17:33
 Operator : MJL Inst ID: 10airH.i
 Smp Info :
 Misc Info : 33312
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airH.i\033119.b\TO15_084-19.m
 Meth Date : 01-Apr-2019 10:18 mlytle Quant Type: ISTD
 Cal Date : 25-MAR-2019 10:53 Cal File: 08412.D
 Als bottle: 25
 Dil Factor: 1.52000
 Integrator: HP RTE Compound Sublist: 124TCB.sub
 Target Version: 4.14

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.520	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
26 Carbon Disulfide	76		3.919	3.916	(0.720)	15278	0.41617	0.633
37 Chloroform	83		4.675	4.671	(0.859)	31529	0.98974	1.50
* 45 1,4-Difluorobenzene	114		5.440	5.433	(1.000)	337382	10.0000	
57 Toluene	91		6.945	6.938	(1.277)	66298	1.41609	2.15
* 64 Chlorobenzene - d5	117		8.433	8.427	(1.000)	292756	10.0000	
76 1,3,5-Trimethylbenzene	105		10.691	10.687	(1.268)	3541	0.06514	0.0990
79 1,2,4-Trimethylbenzene	105		11.183	11.179	(1.326)	7075	0.12756	0.194

Data File: \\192.168.10.12\chem\10airH.i\033119.b\09025.D
 Report Date: 01-Apr-2019 10:24

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: 10airH.i
 Lab File ID: 09025.D
 Lab Smp Id: 10468767011
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: MJL
 Method File: \\192.168.10.12\chem\10airH.i\033119.b\TO15_084-19.m
 Misc Info: 33312

Calibration Date: 31-MAR-2019
 Calibration Time: 07:42

Level: LOW
 Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
 If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	451734	271040	632428	337382	-25.31
64 Chlorobenzene - d	397119	238271	555967	292756	-26.28

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.43	5.10	5.76	5.44	0.12
64 Chlorobenzene - d	8.43	8.10	8.76	8.43	0.08

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

Data File: \\192.168.10.12\chem\10airH.i\033119.b\09025.D

Date : 31-MAR-2019 17:33

Client ID:

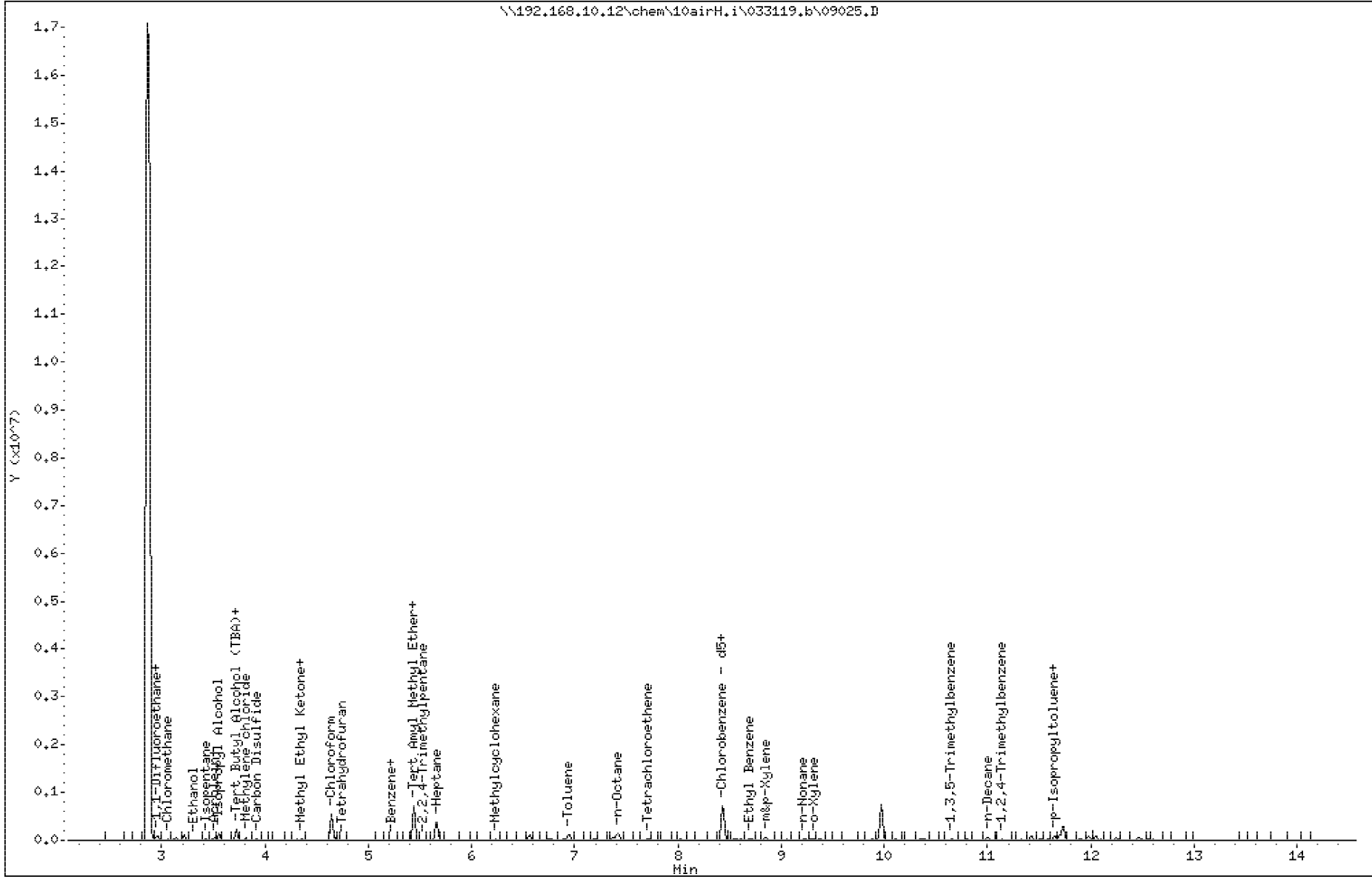
Sample Info:

Column phase: ZB-5MSplus SN338857

Instrument: 10airH.i

Operator: MJL

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09025.D

Date : 31-MAR-2019 17:33

Client ID:

Instrument: 10airH.i

Sample Info:

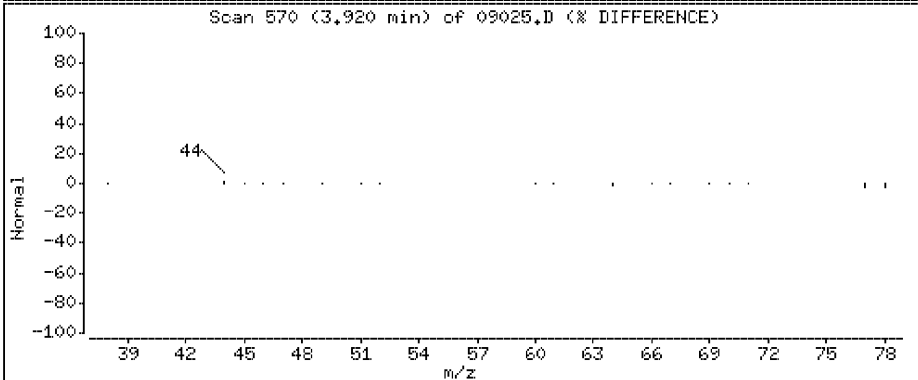
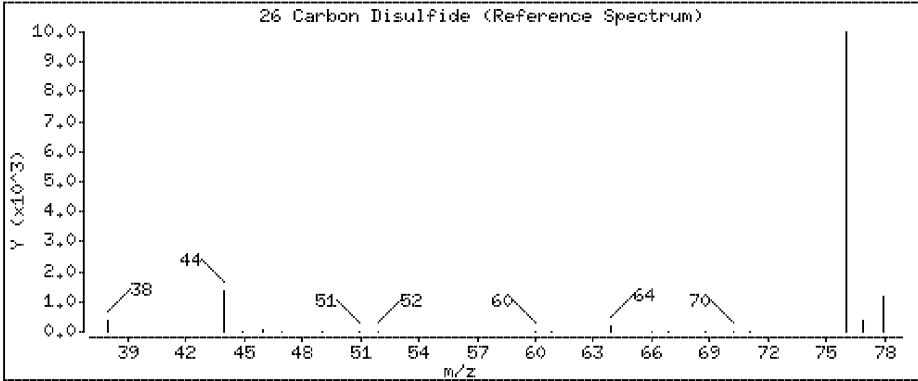
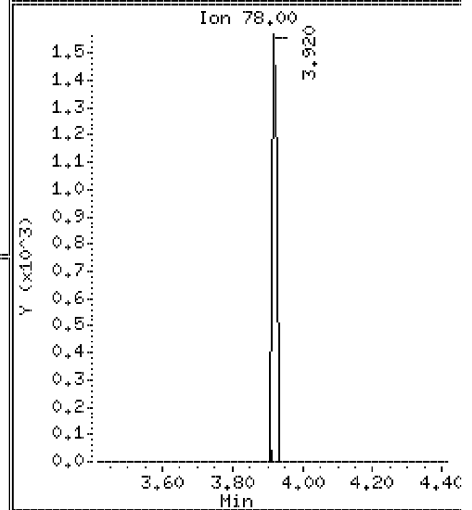
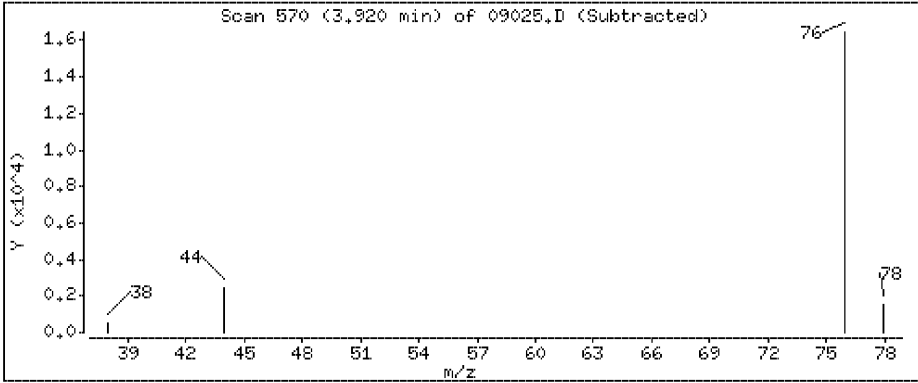
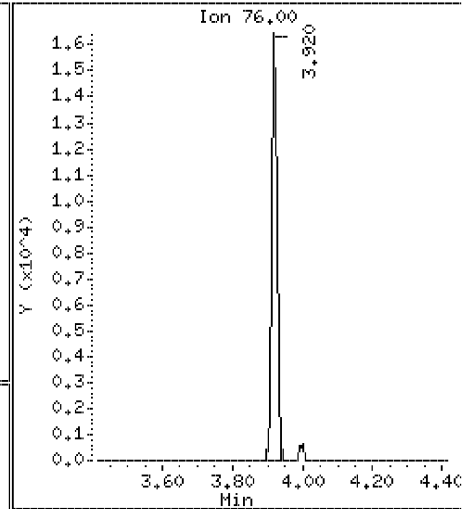
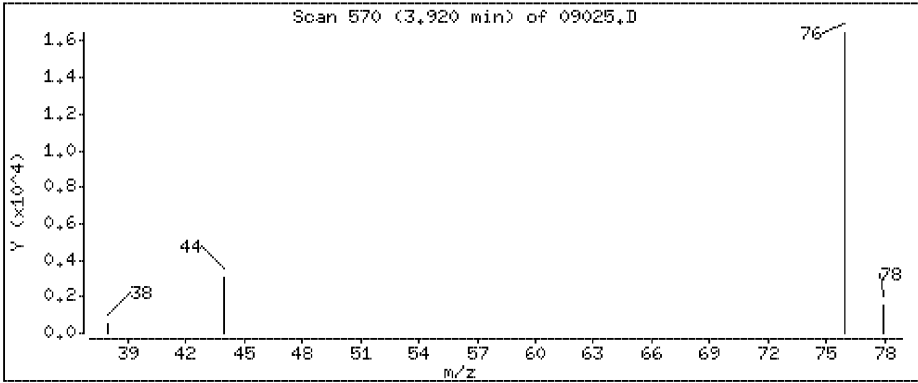
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0.32

26 Carbon Disulfide

Concentration: 0.633 ppbv



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09025.D

Date : 31-MAR-2019 17:33

Client ID:

Instrument: 10airH,i

Sample Info:

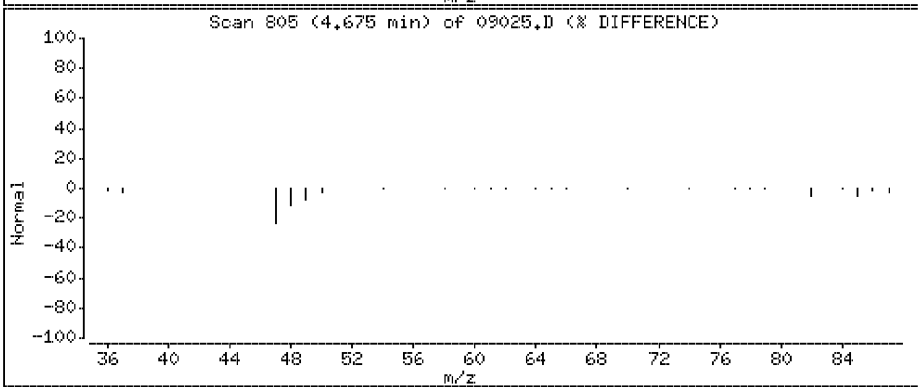
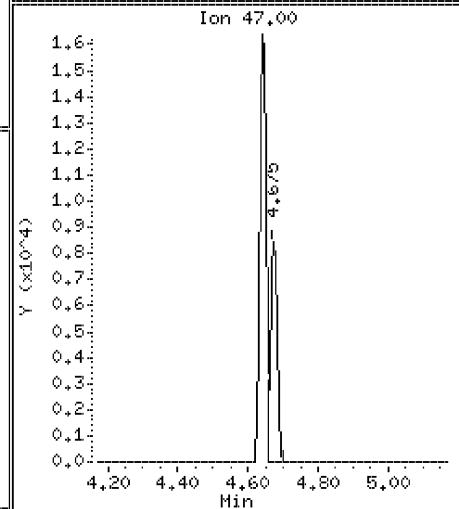
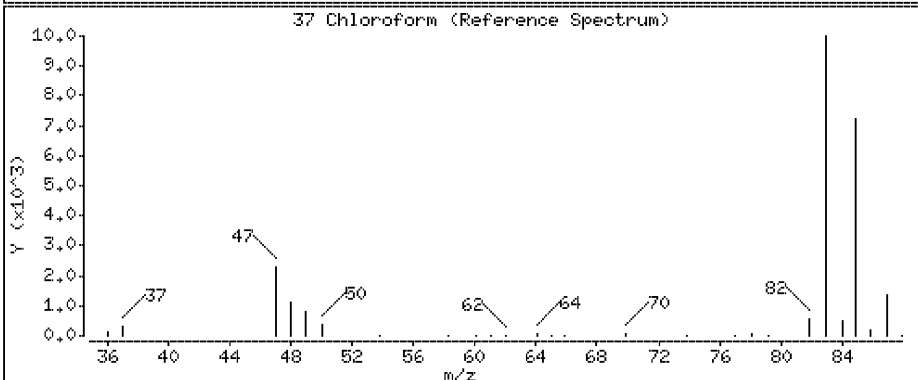
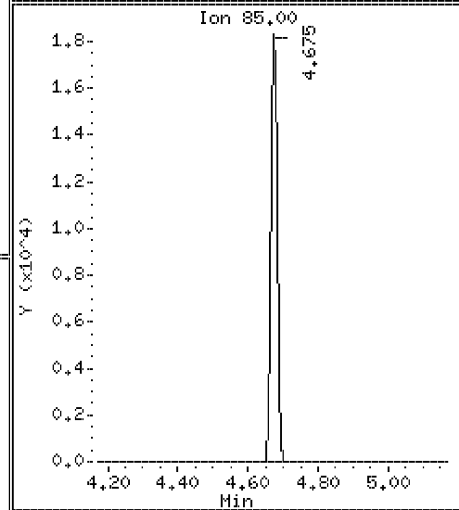
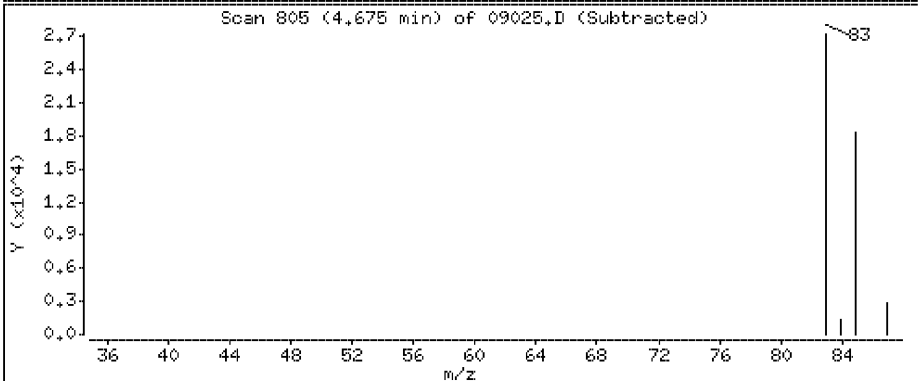
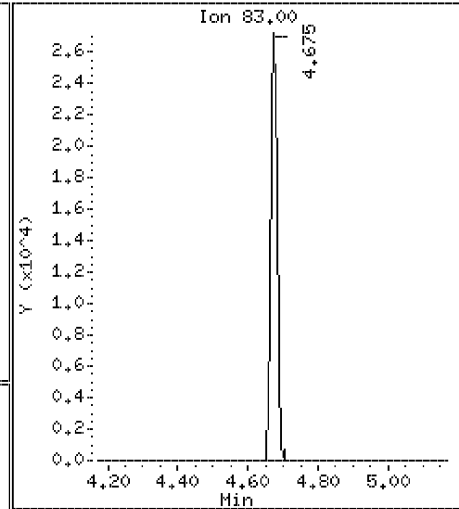
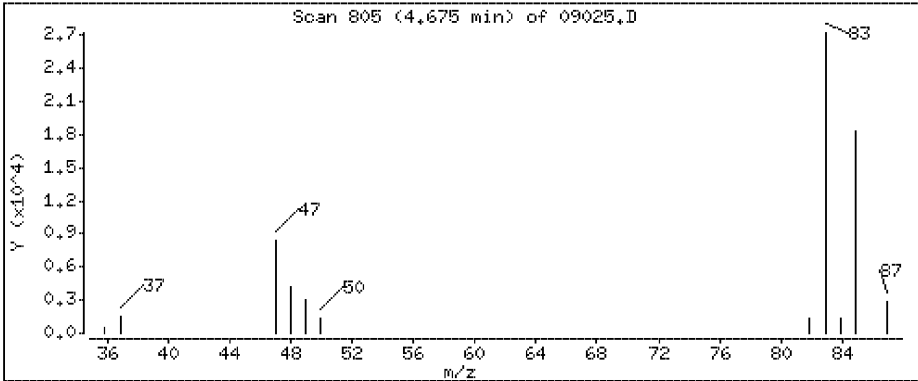
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0,32

37 Chloroform

Concentration: 1,50 ppbv



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09025.D

Date : 31-MAR-2019 17:33

Client ID:

Instrument: 10airH.i

Sample Info:

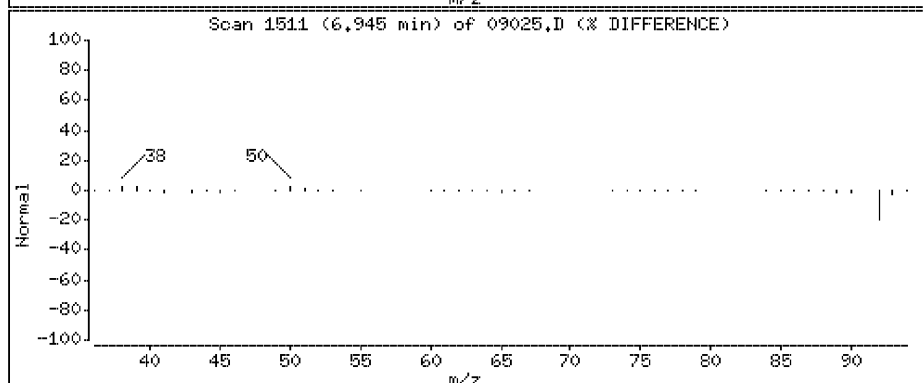
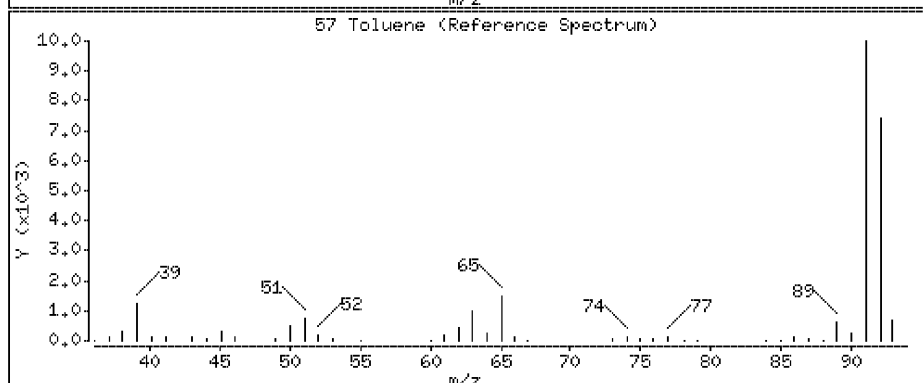
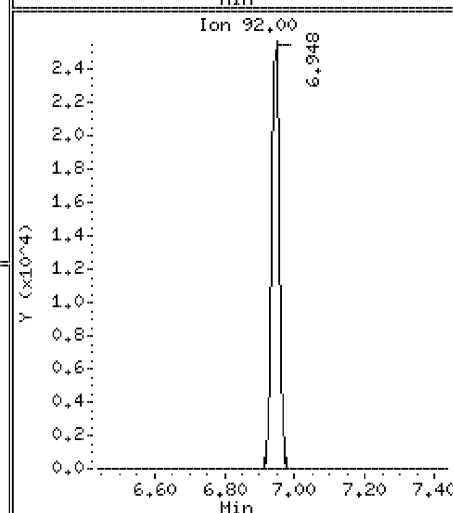
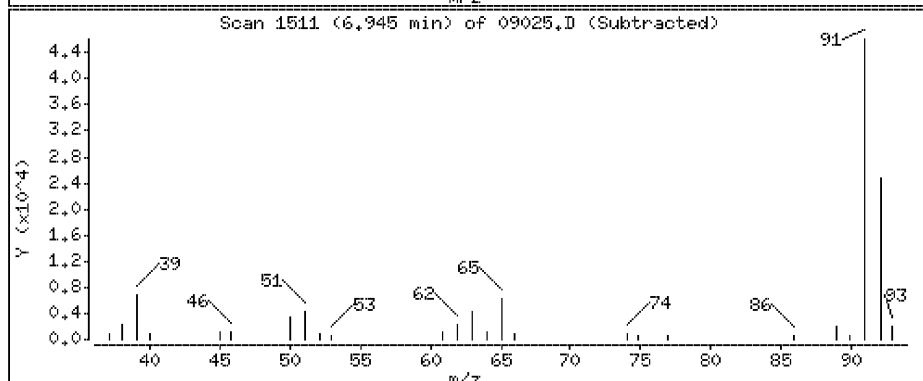
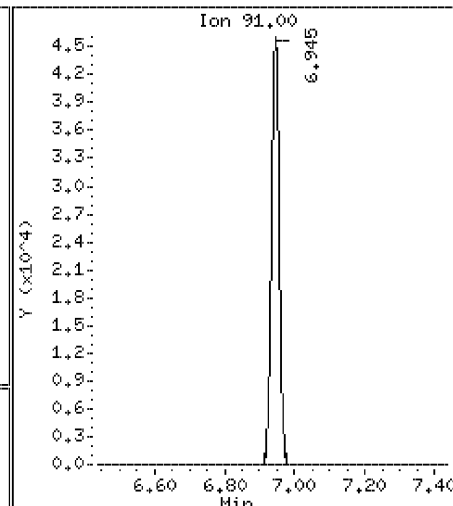
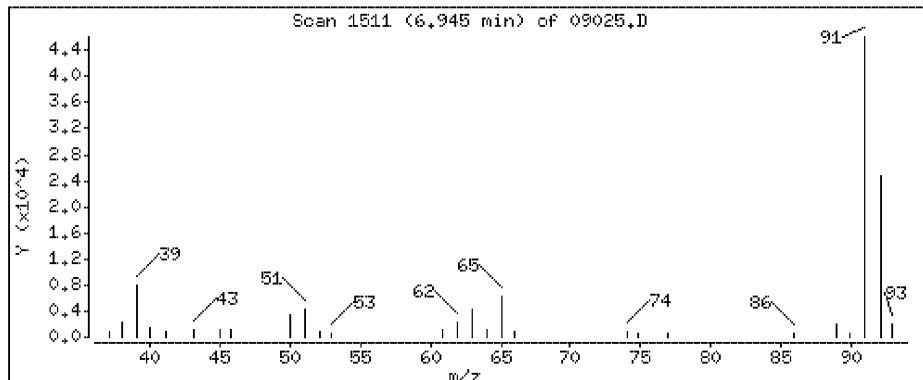
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0,32

57 Toluene

Concentration: 2,15 ppbv



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09025.D

Date : 31-MAR-2019 17:33

Client ID:

Instrument: 10airH,i

Sample Info:

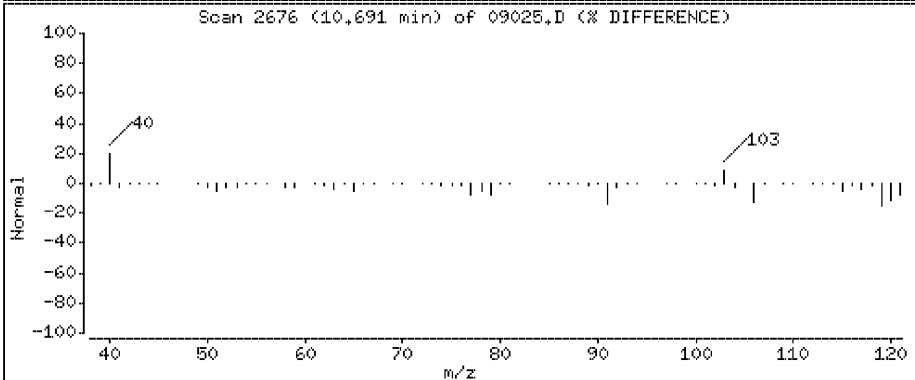
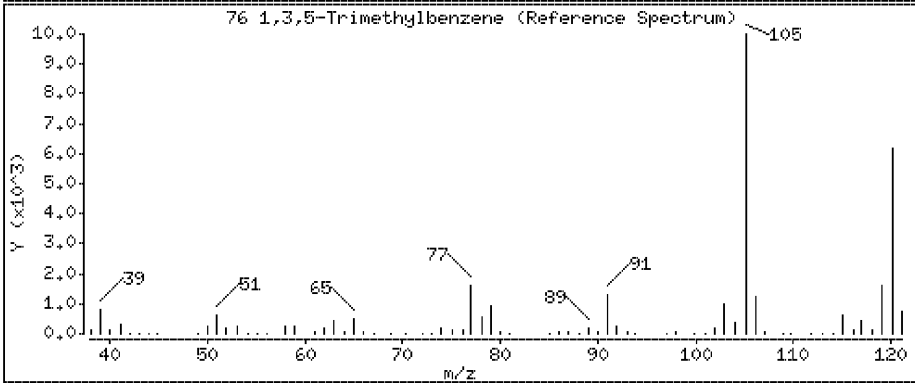
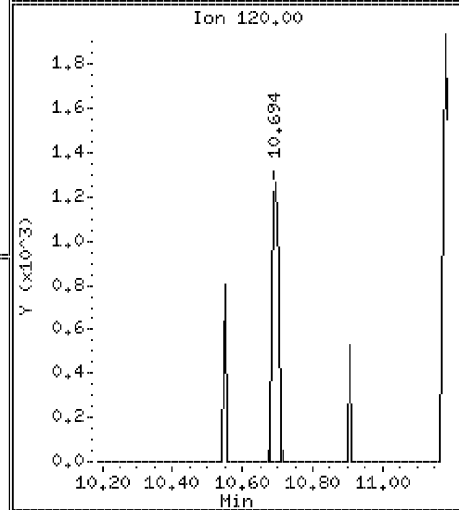
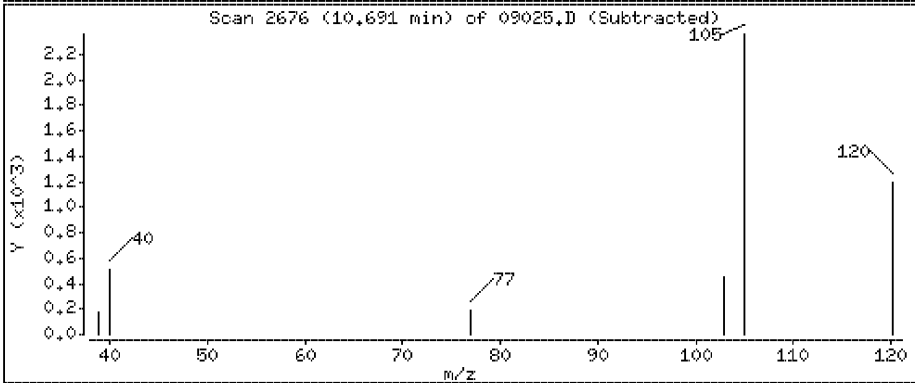
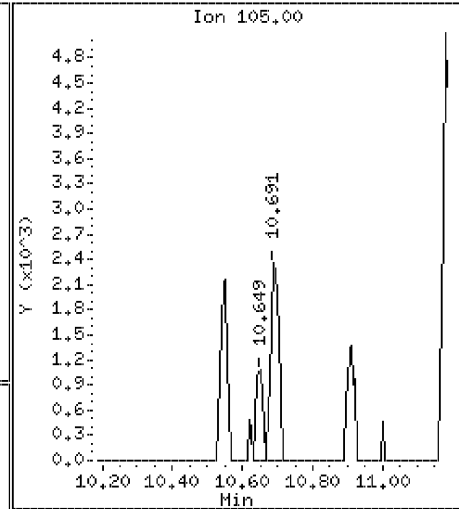
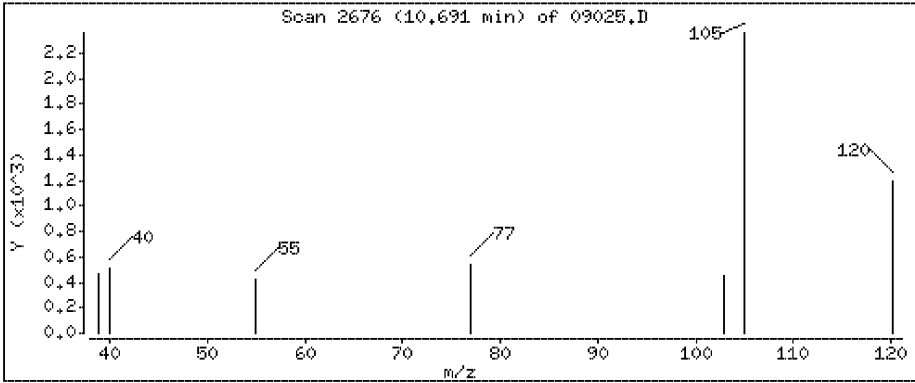
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0,32

76 1,3,5-Trimethylbenzene

Concentration: 0,0990 ppbv



Data File: \\192.168.10.12\chem\10airH,1\033119,b\09025.D

Date : 31-MAR-2019 17:33

Client ID:

Instrument: 10airH.i

Sample Info:

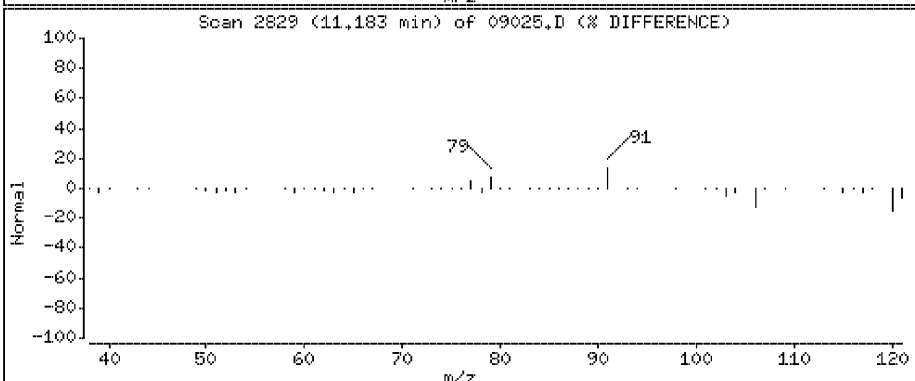
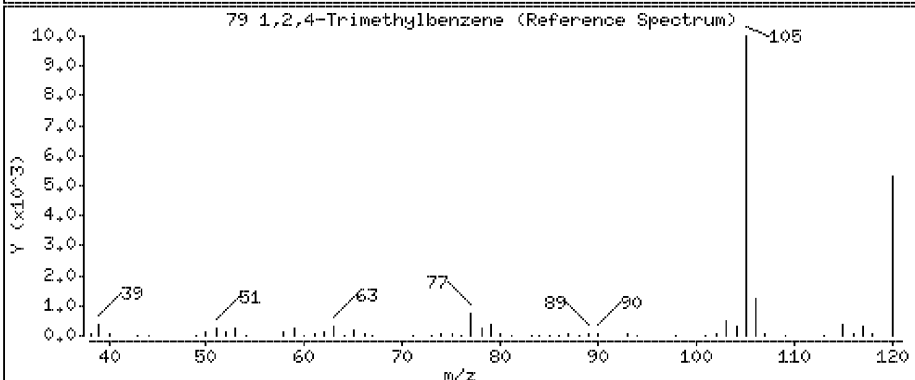
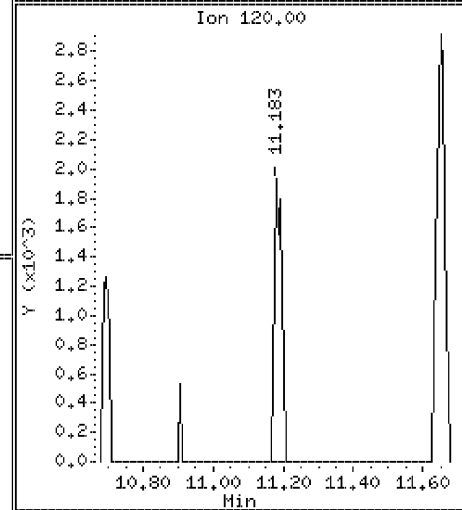
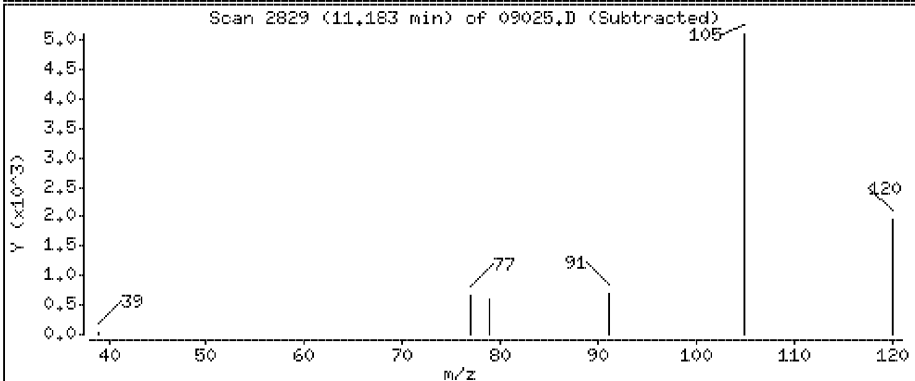
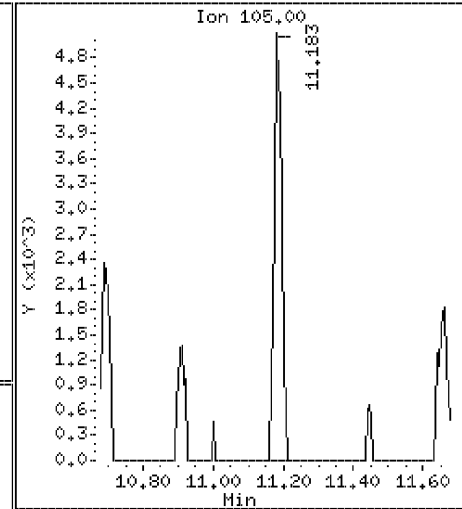
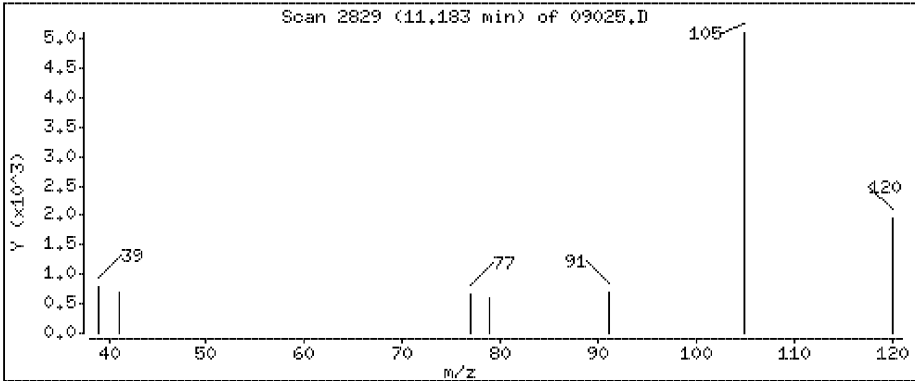
Operator: MJL

Column phase: ZB-5MSplus SN338857

Column diameter: 0,32

79 1,2,4-Trimethylbenzene

Concentration: 0,194 ppbv



Data File: \\192.168.10.12\chem\10airH.i\033119.b\09025.D
Injection Date: 31-MAR-2019 17:33
Instrument: 10airH.i
Lab Sample ID: 10468767011
NO SIGNAL MANUAL INTEGRATIONS DONE FOR THIS DATA FILE

Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\033019.b\08920.D
 Lab Smp Id: 10468767011
 Inj Date : 30-MAR-2019 15:48
 Operator : MJL Inst ID: 10airI.i
 Smp Info :
 Misc Info : 33312
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Meth Date : 31-Mar-2019 13:48 mlytle Quant Type: ISTD
 Cal Date : 30-MAR-2019 10:33 Cal File: 08909.D
 Als bottle: 20
 Dil Factor: 1.52000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.520	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
1 1,1-Difluoroethane	65		3.013	3.013	(0.535)	5226	0.20214	0.307
2 Chlorodifluoromethane	67		3.031	3.025	(0.539)	1570	0.13784	0.210(Q)
3 Propylene	41		3.044	3.044	(0.541)	55148	1.19598	1.82
4 Dichlorodifluoromethane	85		3.068	3.068	(0.545)	26976	0.23375	0.355
5 Dichlorotetrafluoroethane	85		3.147	3.147	(0.559)	1756	0.02083	0.0317(a)
6 Chloromethane	50		3.147	3.147	(0.559)	9065	0.18205	0.277
7 Vinyl chloride	62		Compound Not Detected.					
8 1,3-Butadiene	54		Compound Not Detected.					
9 Bromomethane	94		Compound Not Detected.					
10 Chloroethane	64		Compound Not Detected.					
11 Ethanol	45		3.440	3.440	(0.611)	18082	0.97385	1.48
12 Vinyl Bromide	106		Compound Not Detected.					
13 Isopentane	43		3.556	3.556	(0.632)	13767	0.30425	0.462
14 Freon 123	83		Compound Not Detected.					
15 Acrolein	56		Compound Not Detected.					
16 Trichlorofluoromethane	101		3.635	3.635	(0.646)	13273	0.13484	0.205
17 Acetone	43		3.653	3.653	(0.649)	56591	0.54007	0.821
18 Isopropyl Alcohol	45		Compound Not Detected.					
19 Tert Butyl Alcohol (TBA)	59		3.860	3.860	(0.686)	24004	0.23095	0.351
20 Acrylonitrile	53		Compound Not Detected.					
21 1,1-Dichloroethene	61		Compound Not Detected.					
22 Methyl Acetate	43		Compound Not Detected.					
23 Freon 113	101		3.909	3.903	(0.695)	3272	0.04068	0.0618(a)

Compounds	QUANT	SIG						CONCENTRATIONS		
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ppbv)	FINAL (ppbv)	
24 Methylene chloride	49		3.958	3.959	(0.703)	49319	0.37491	0.570		
25 Allyl Chloride	76		Compound Not Detected.							
26 Carbon Disulfide	76		4.080	4.080	(0.725)	33377	0.30606	0.465		
27 trans-1,2-dichloroethene	96		Compound Not Detected.							
28 Methyl Tert Butyl Ether	73		Compound Not Detected.							
29 Vinyl Acetate	43		Compound Not Detected.							(D)
30 1,1-Dichloroethane	63		Compound Not Detected.							
31 Methyl Ethyl Ketone	72		4.513	4.513	(0.802)	2742	0.11316	0.172 (Q)		
32 n-Hexane	57		4.549	4.549	(0.808)	11171	0.14584	0.222 (Q)		
33 Di-isopropyl Ether	45		Compound Not Detected.							
34 Ethyl Acetate	43		Compound Not Detected.							
35 cis-1,2-Dichloroethene	96		Compound Not Detected.							
36 Ethyl Tert-Butyl Ether	59		Compound Not Detected.							
37 Chloroform	83		4.805	4.805	(0.854)	74293	0.78363	1.19 (Q)		
38 Tetrahydrofuran	42		4.964	4.964	(0.882)	14527	0.23963	0.364		
39 1,1,1-Trichloroethane	97		Compound Not Detected.							
40 1,2-Dichloroethane	62		Compound Not Detected.							
41 Benzene	78		5.458	5.458	(0.970)	6645	0.05377	0.0817		
42 Carbon tetrachloride	117		5.476	5.476	(0.973)	3250	0.03510	0.0534 (aQ)		
43 Cyclohexane	56		Compound Not Detected.							(D)
44 Tert Amyl Methyl Ether	73		Compound Not Detected.							(D)
* 45 1,4-Difluorobenzene	114		5.628	5.628	(1.000)	963049	10.0000			
46 2,2,4-Trimethylpentane	57		Compound Not Detected.							(D)
47 Heptane	43		5.927	5.909	(1.053)	360324	3.32125	5.05		
48 1,2-Dichloropropane	63		Compound Not Detected.							
49 Trichloroethene	130		Compound Not Detected.							
50 Methyl methacrylate	69		Compound Not Detected.							(D)
51 1,4-Dioxane	88		Compound Not Detected.							
52 Bromodichloromethane	83		6.110	6.110	(1.086)	1048	0.01096	0.0167 (a)		
53 Methylcyclohexane	98		6.451	6.458	(1.146)	5358	0.16771	0.255 (Q)		
54 Methyl Isobutyl Ketone	43		Compound Not Detected.							(D)
55 cis-1,3-Dichloropropene	75		Compound Not Detected.							
56 trans-1,3-Dichloropropene	75		Compound Not Detected.							
57 Toluene	91		7.201	7.195	(1.279)	159564	1.12036	1.70		
58 1,1,2-Trichloroethane	97		Compound Not Detected.							
59 Methyl Butyl Ketone	43		Compound Not Detected.							(D)
60 n-Octane	43		7.634	7.634	(0.879)	72232	0.52194	0.793		
61 Dibromochloromethane	129		Compound Not Detected.							
62 1,2-Dibromoethane	107		Compound Not Detected.							
63 Tetrachloroethene	166		Compound Not Detected.							(D)
* 64 Chlorobenzene - d5	117		8.683	8.683	(1.000)	828992	10.0000			
65 Chlorobenzene	112		8.725	8.725	(1.005)	15772	0.15207	0.231 (M)		
66 Ethyl Benzene	91		8.969	8.963	(1.033)	27395	0.15328	0.233		
67 m&p-Xylene	91		9.097	9.103	(1.048)	79249	0.58245	0.885		
68 n-Nonane	43		9.475	9.475	(1.091)	25268	0.18301	0.278 (M)		
69 Bromoform	173		Compound Not Detected.							
70 Styrene	104		9.518	9.524	(1.096)	3311	0.03479	0.0529 (aM)		
71 o-Xylene	91		9.591	9.591	(1.105)	24846	0.17813	0.271		
72 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.							
73 Isopropylbenzene	105		Compound Not Detected.							
74 N-Propylbenzene	91		Compound Not Detected.							
75 4-Ethyltoluene	105		Compound Not Detected.							(D)
76 1,3,5-Trimethylbenzene	105		10.932	10.938	(1.259)	6294	0.04220	0.0641 (a)		
77 n-Decane	57		Compound Not Detected.							(D)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ppbv)	FINAL (ppbv)
78 Tert-Butyl Benzene	119	Compound Not Detected.					
79 1,2,4-Trimethylbenzene	105	11.408	11.408	(1.314)	11440	0.07736	0.118
80 Sec- Butylbenzene	105	Compound Not Detected.					
81 1,3-Dichlorobenzene	146	Compound Not Detected.					
82 Benzyl Chloride	91	Compound Not Detected.					
83 1,4-Dichlorobenzene	146	11.761	11.767	(1.355)	1289	0.01689	0.0257(aQ)
84 p-Isopropyltoluene	119	11.841	11.847	(1.364)	99477	0.60115	0.914
85 1,2,3-Trimethylbenzene	105	11.883	11.883	(1.369)	4502	0.03179	0.0483(a)
86 1,2-Dichlorobenzene	146	Compound Not Detected.					
87 N-Butylbenzene	91	12.286	12.273	(1.415)	6010	0.03673	0.0558(a)
88 1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
89 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
90 Naphthalene	128	13.846	13.846	(1.595)	3334	0.03078	0.0468(aM)
91 Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08920.D
Report Date: 31-Mar-2019 14:15

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airI.i
Lab File ID: 08920.D
Lab Smp Id: 10468767011
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
Misc Info: 33312

Calibration Date: 30-MAR-2019
Calibration Time: 08:43

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	1148342	689005	1607679	963049	-16.14
64 Chlorobenzene - d	994820	596892	1392748	828992	-16.67

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.63	5.30	5.96	5.63	0.00
64 Chlorobenzene - d	8.68	8.35	9.01	8.68	0.00

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

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

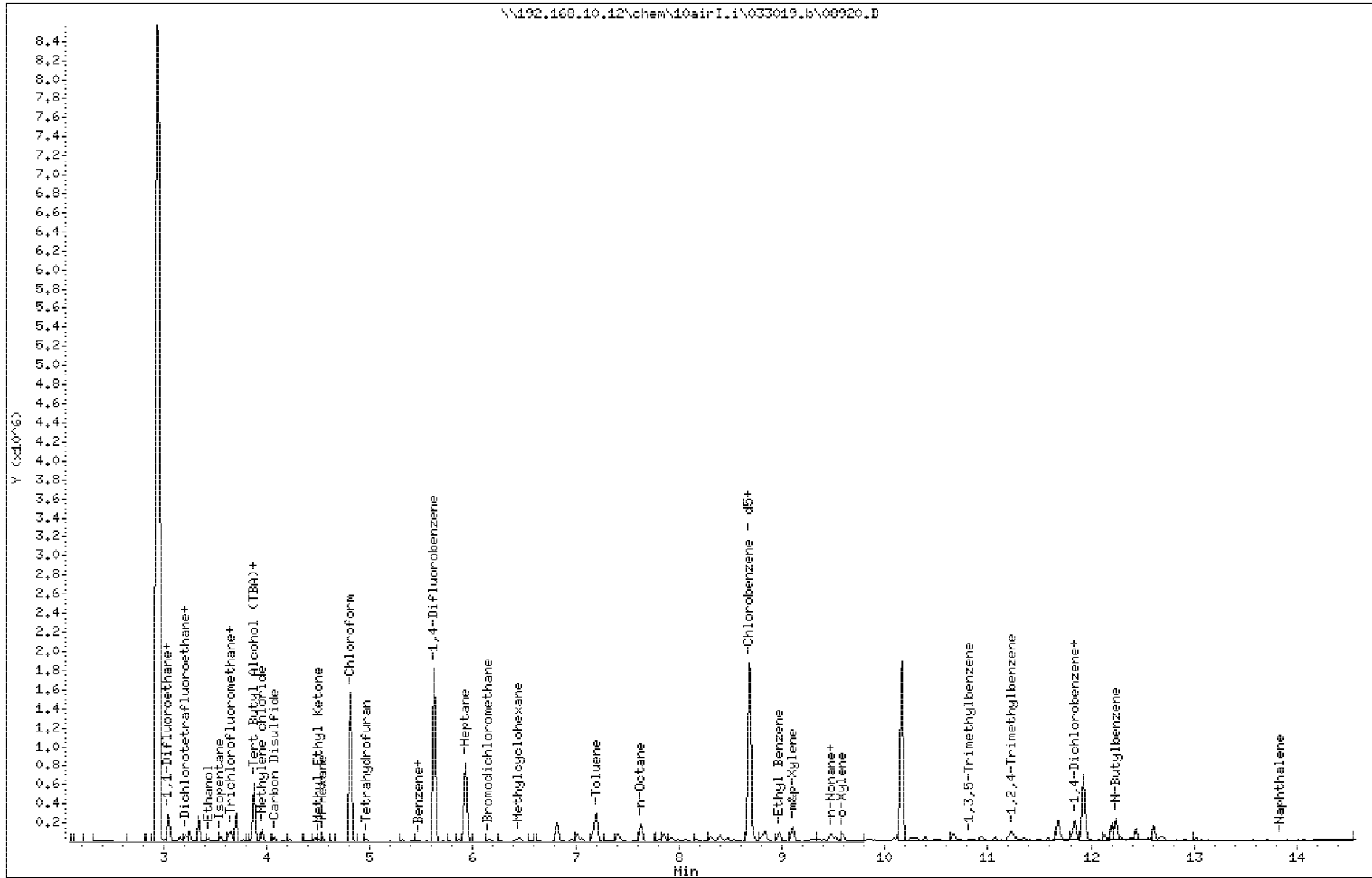
Instrument: 10airI.i

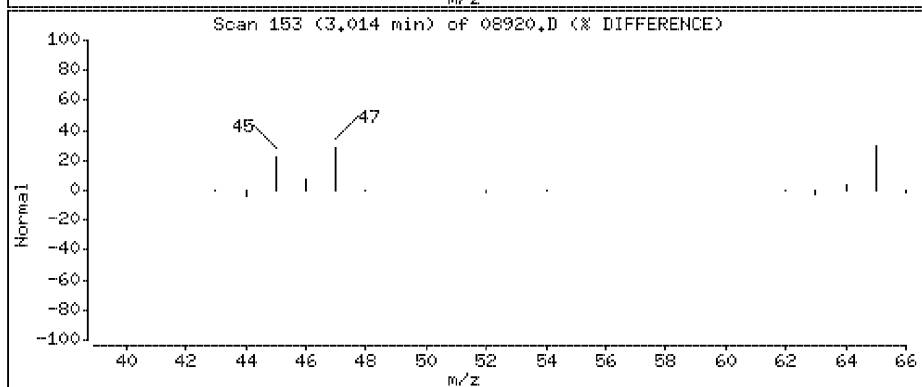
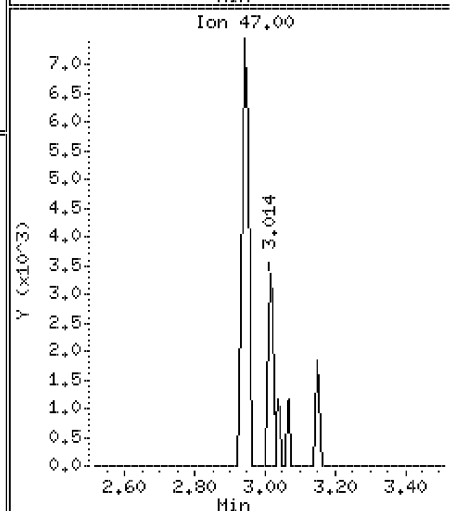
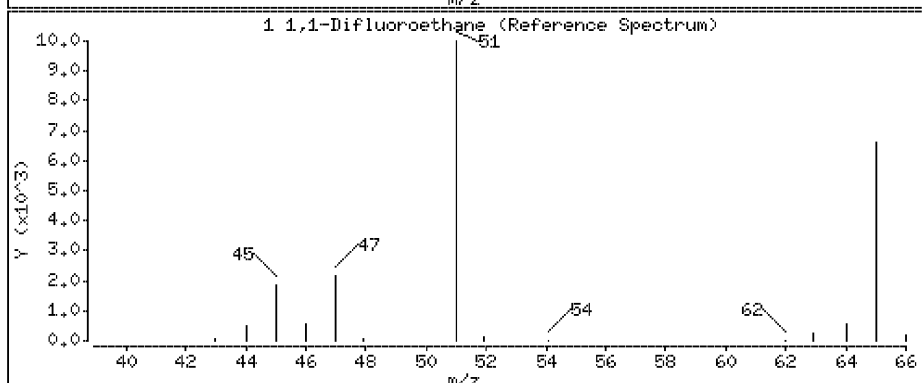
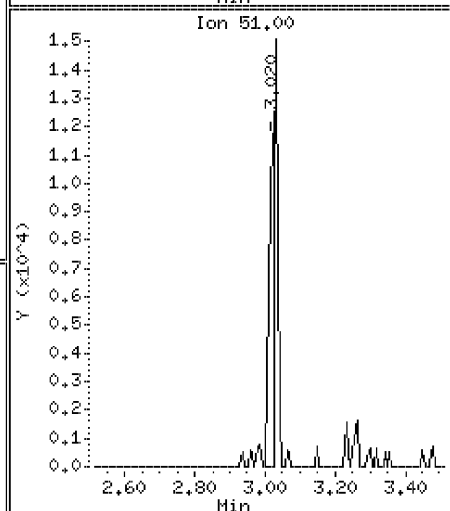
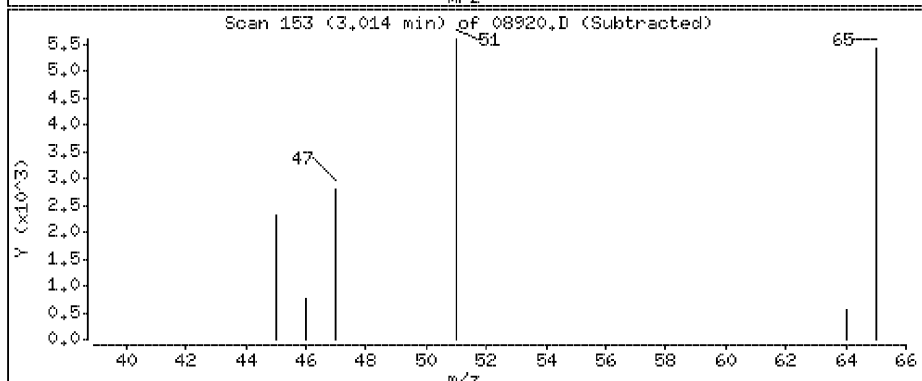
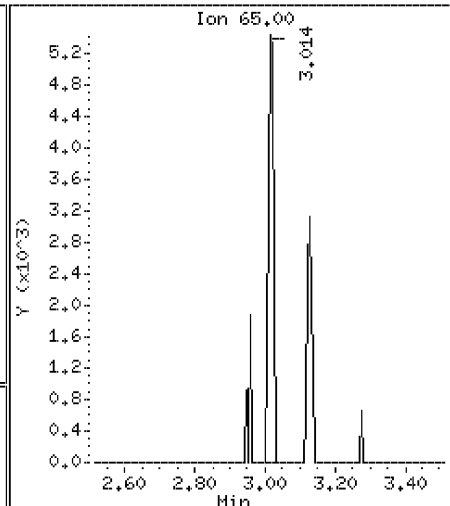
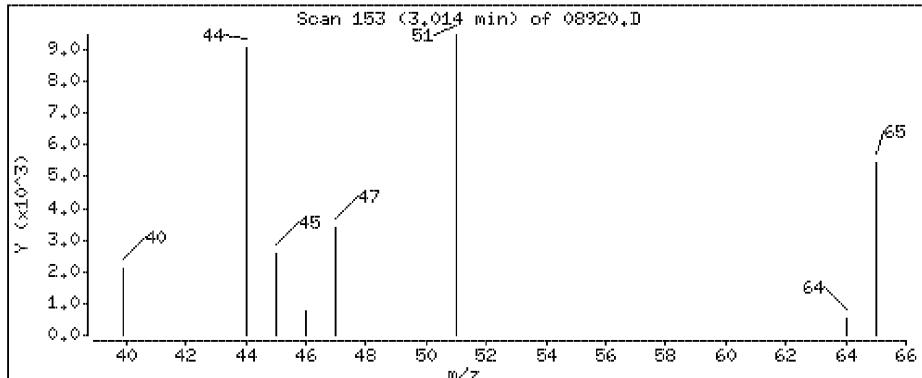
Sample Info:

Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32





Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

Sample Info:

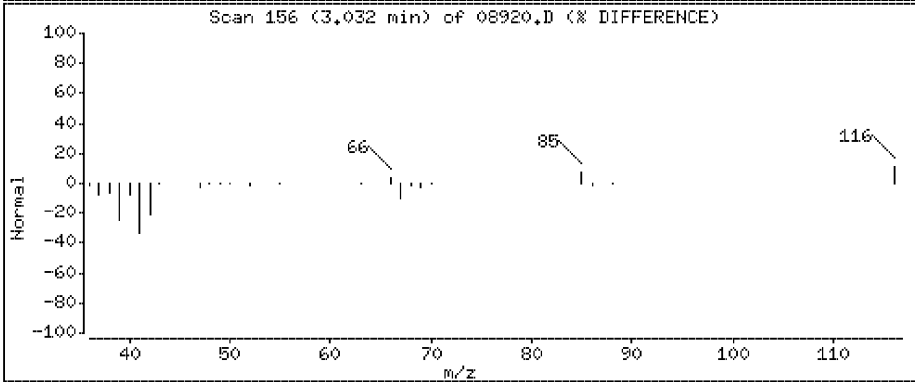
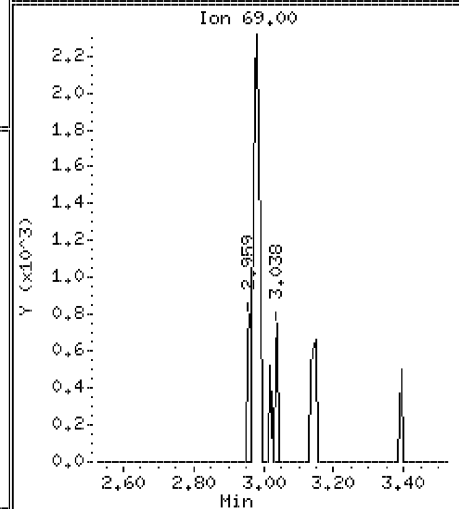
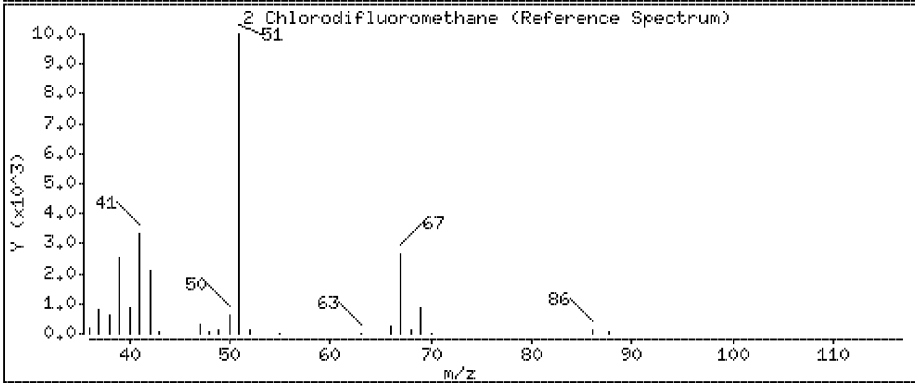
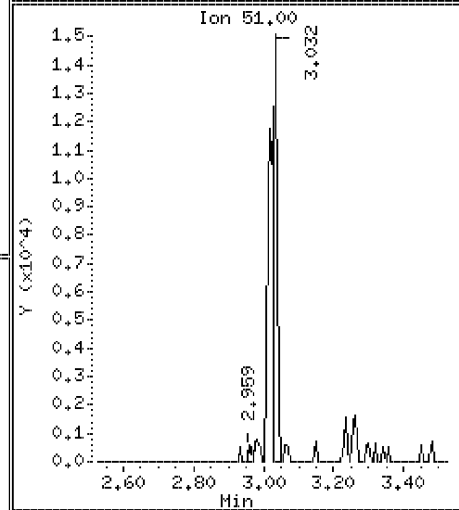
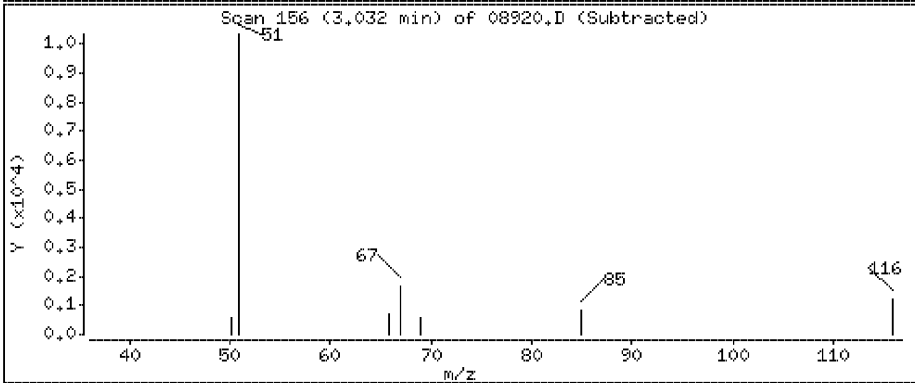
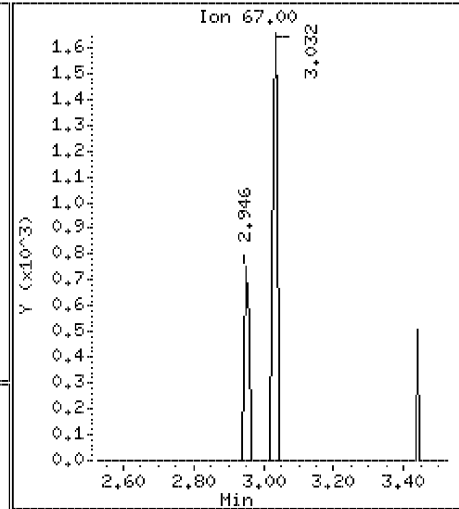
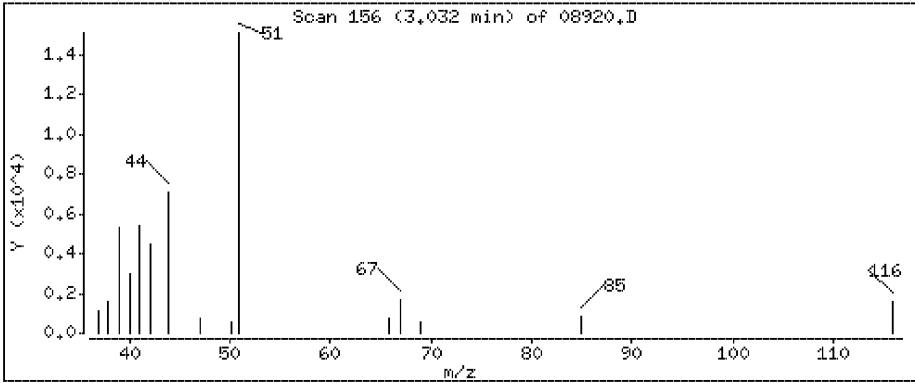
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

2 Chlorodifluoromethane

Concentration: 0.210 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

Sample Info:

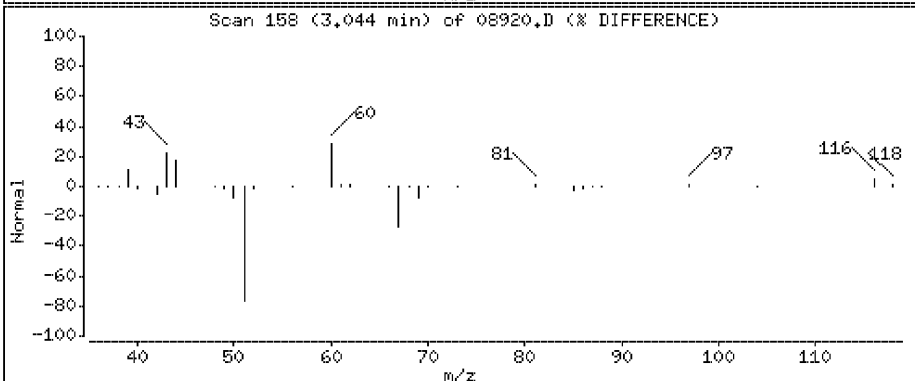
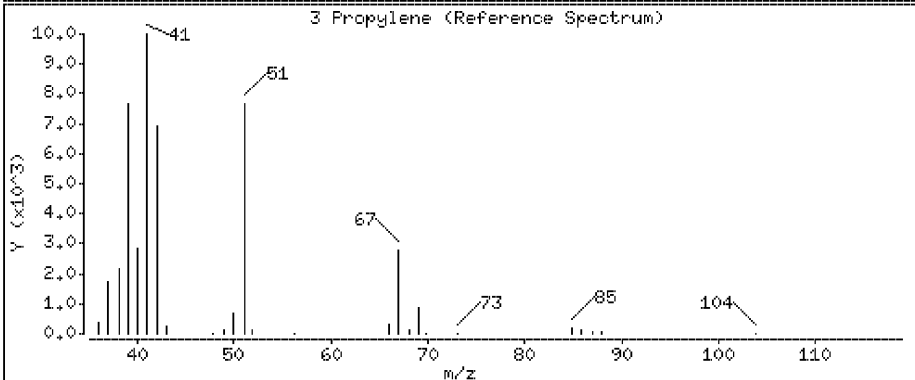
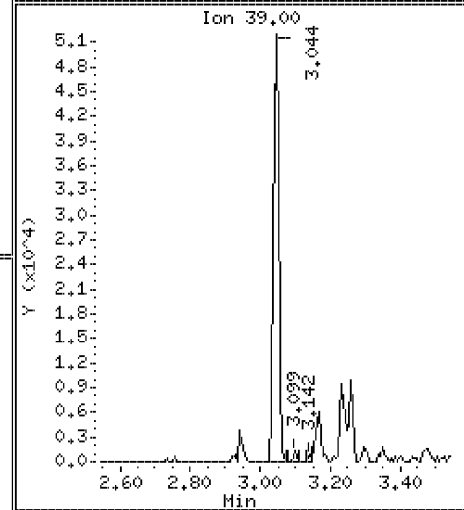
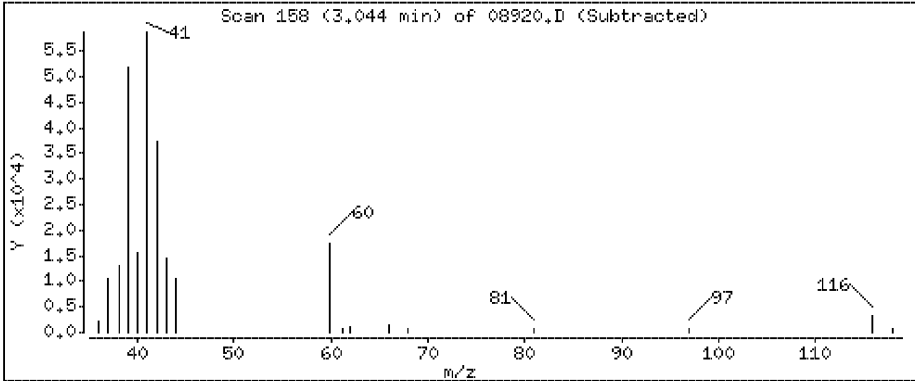
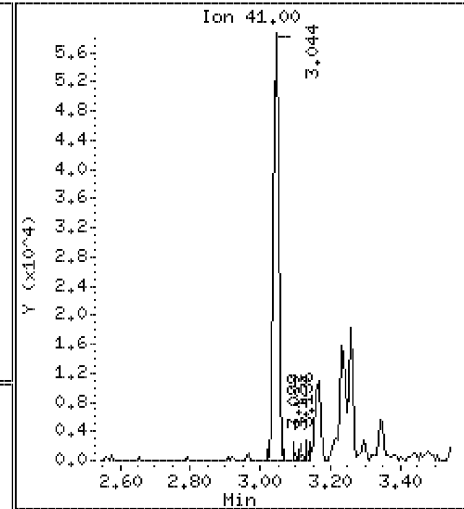
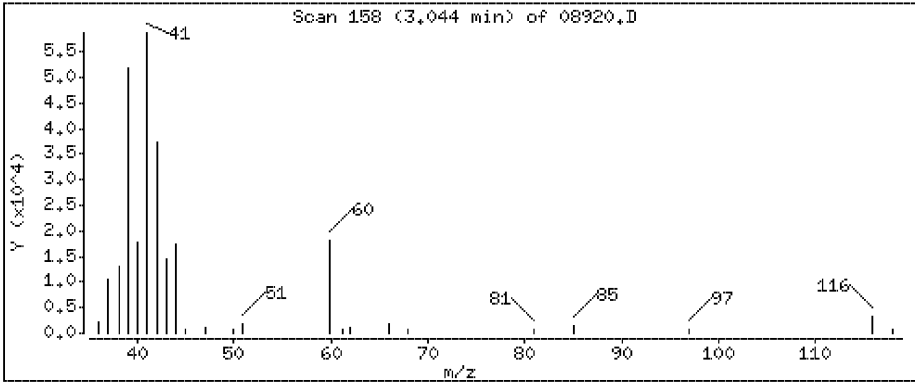
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

3 Propylene

Concentration: 1.82 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

Sample Info:

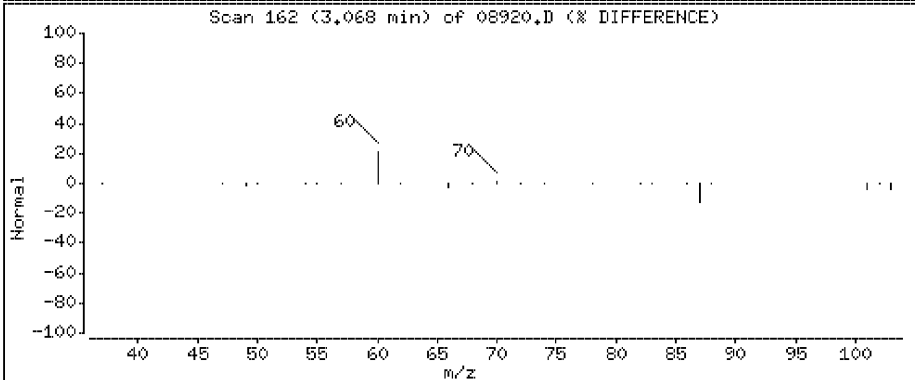
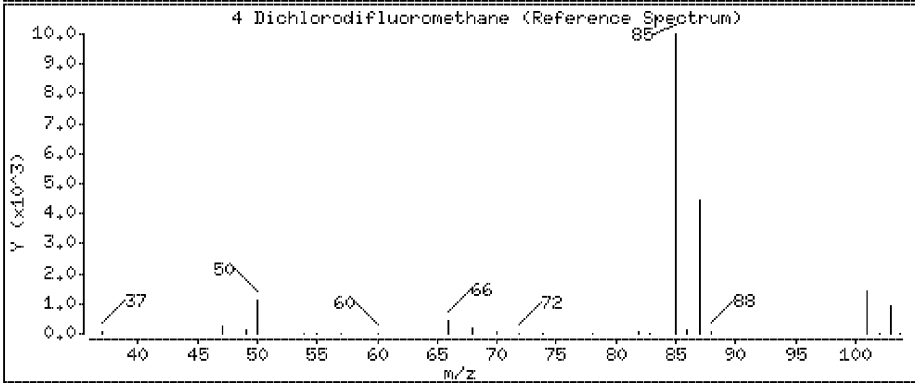
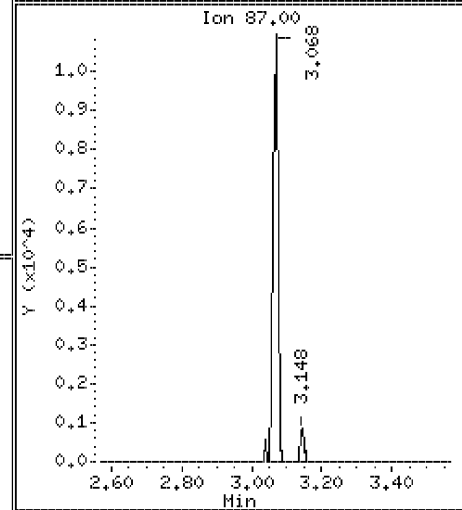
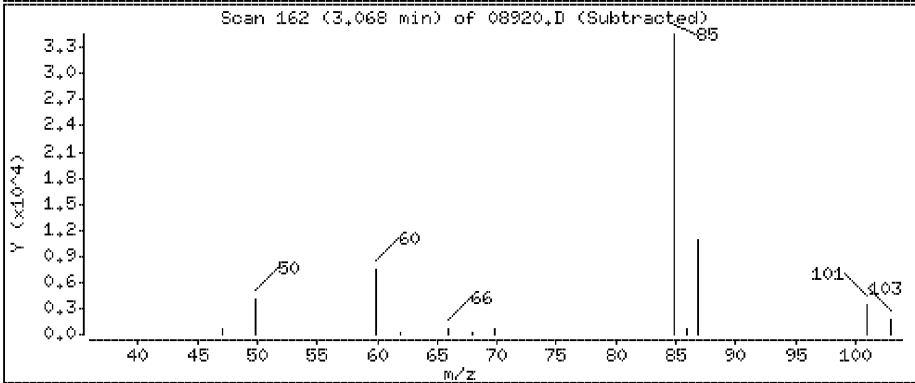
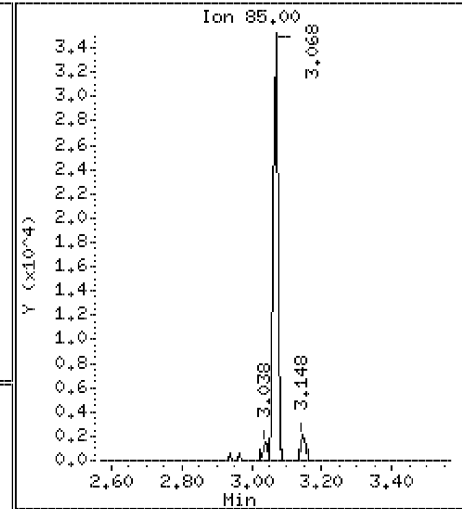
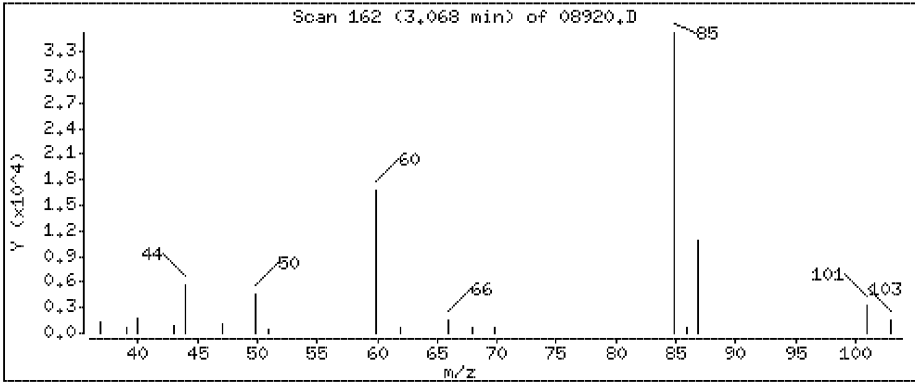
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

4 Dichlorodifluoromethane

Concentration: 0,355 ppbv



Data File: \\192.168.10.12\chem\10airI.i\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

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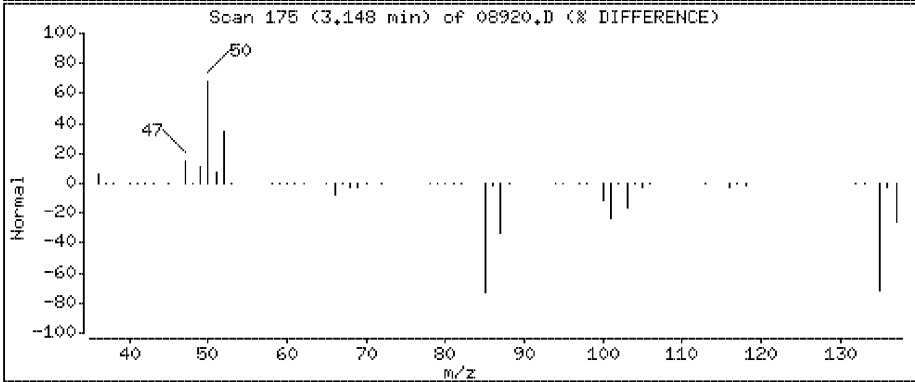
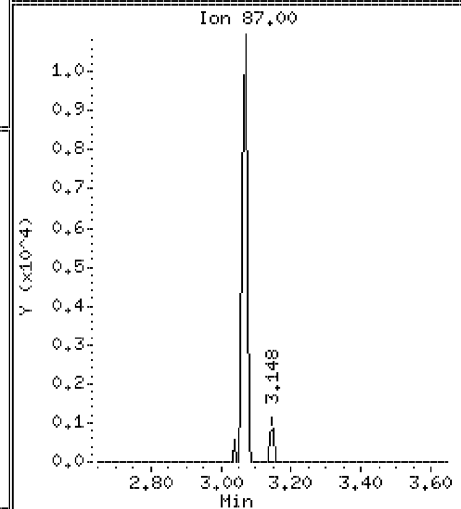
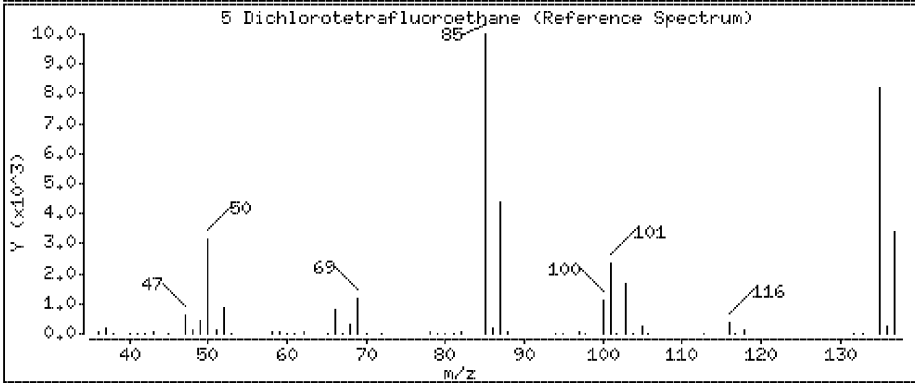
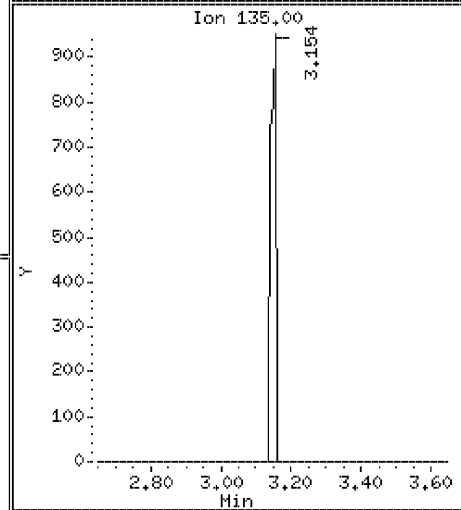
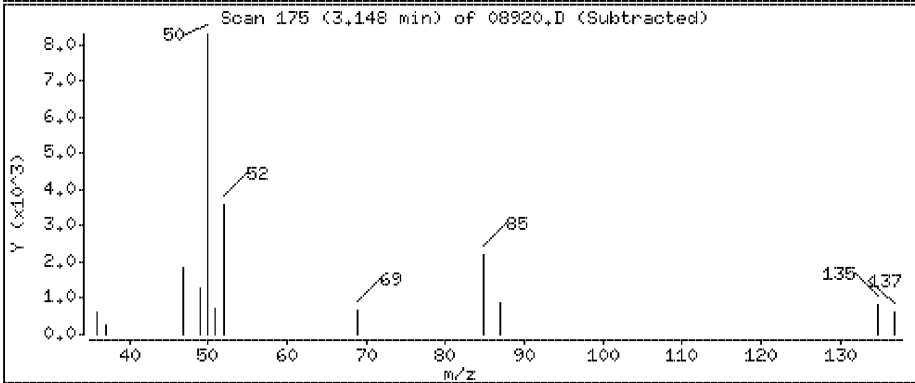
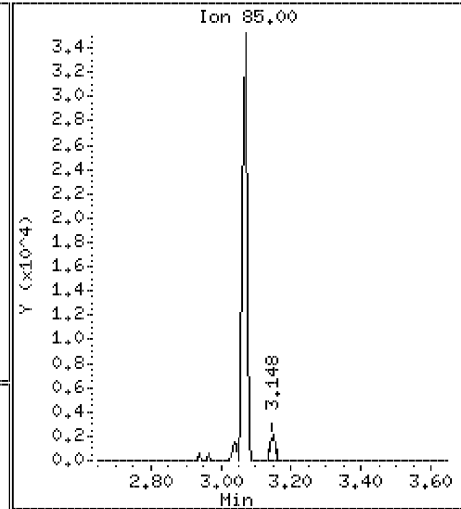
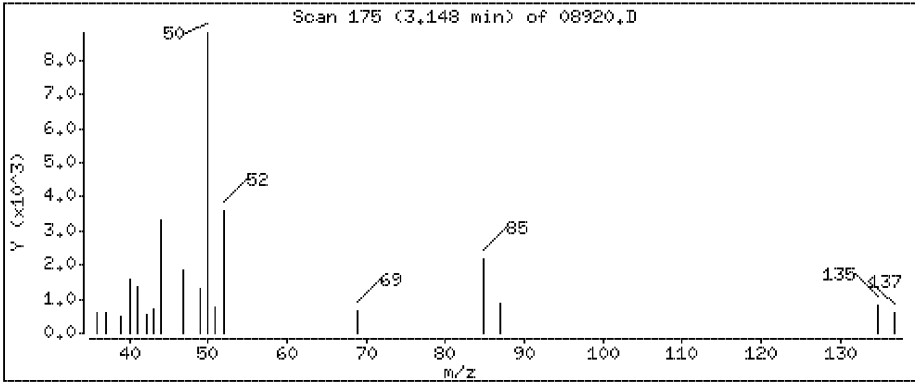
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

5 Dichlorotetrafluoroethane

Concentration: 0,0317 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

Sample Info:

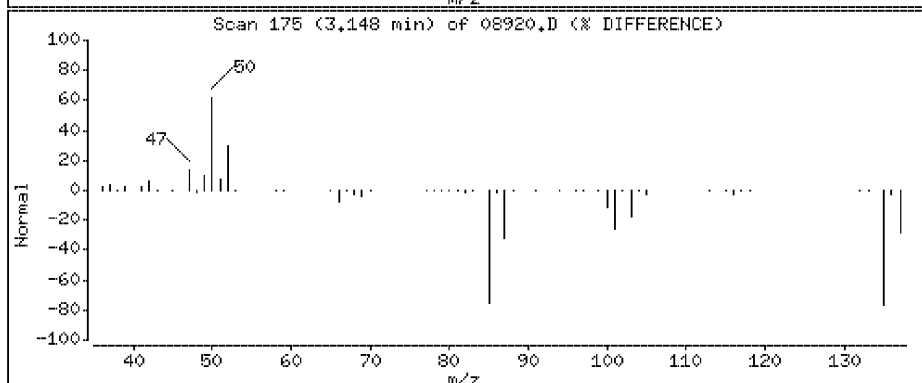
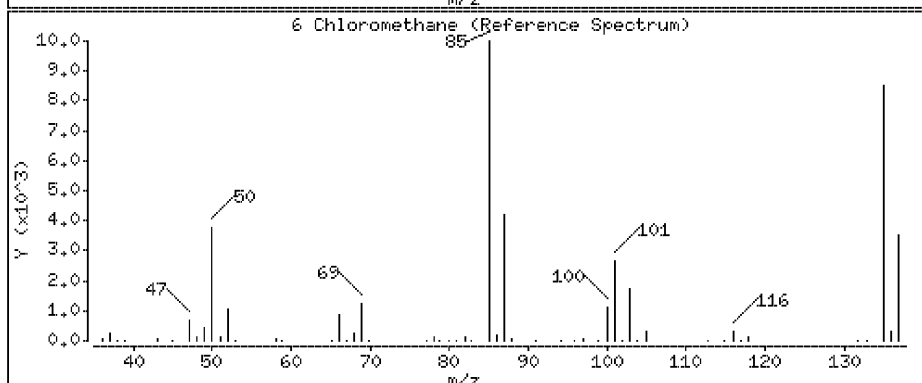
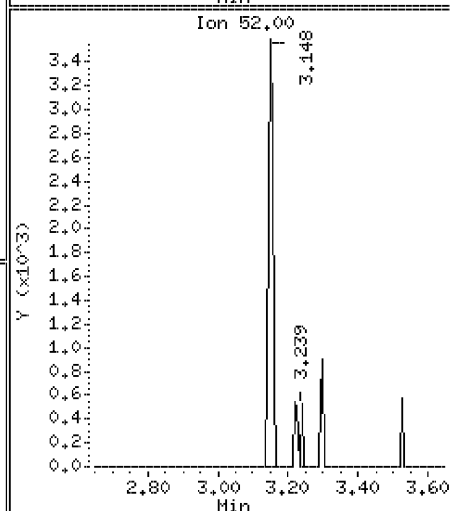
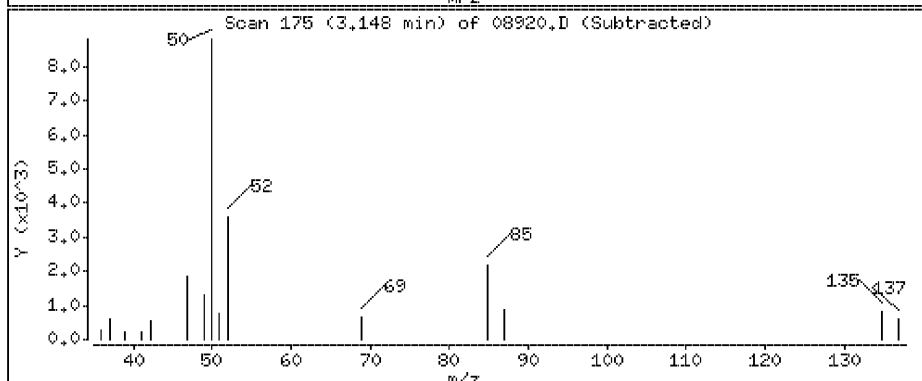
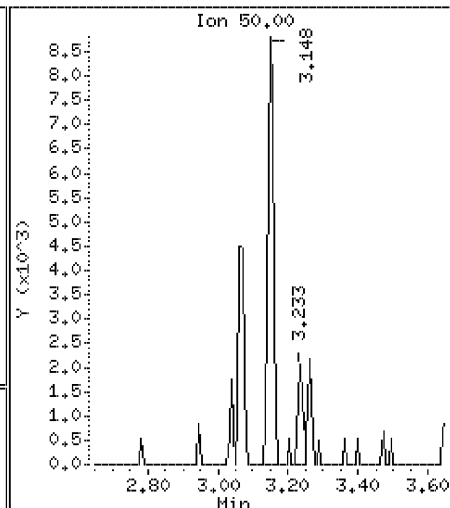
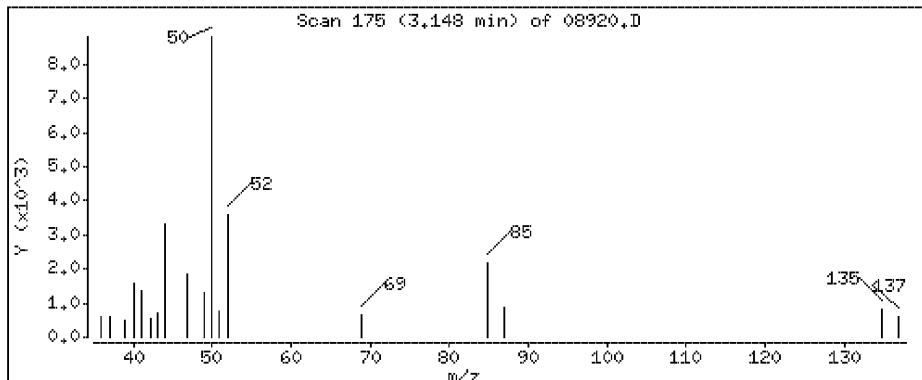
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

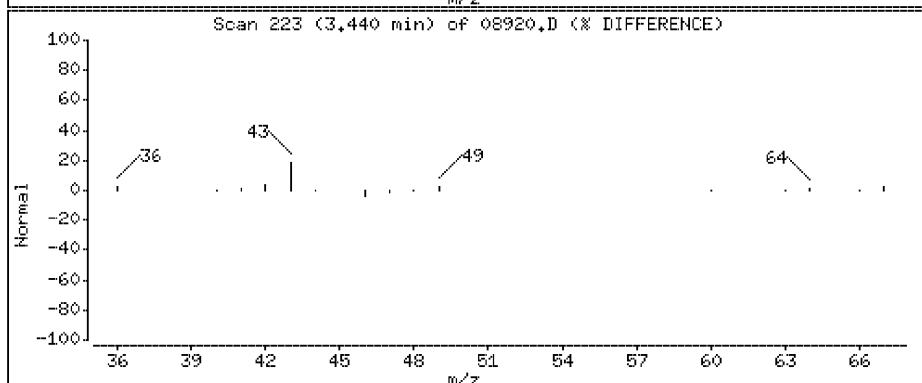
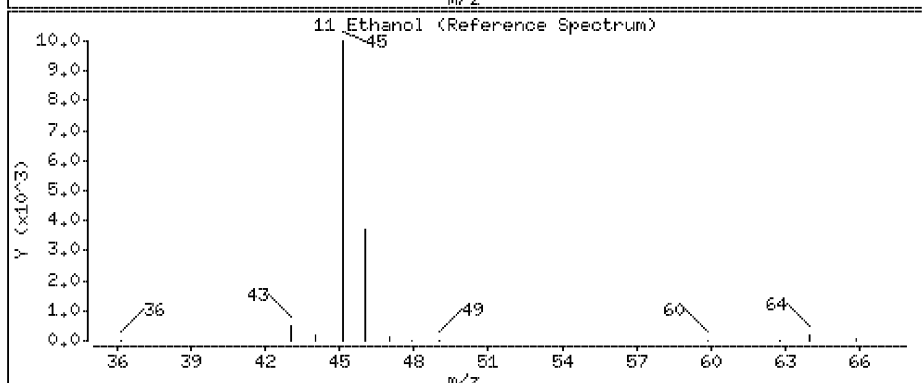
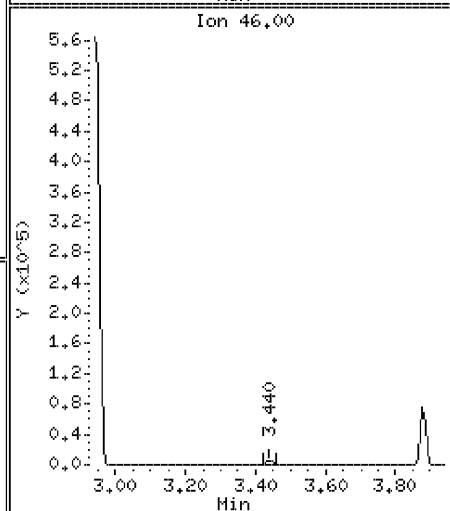
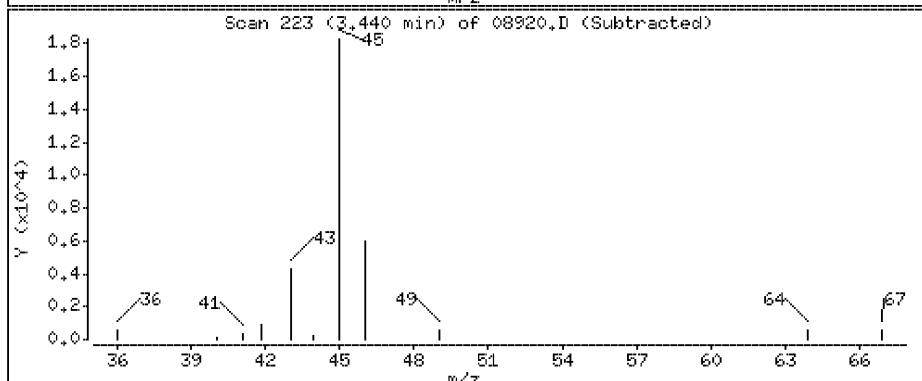
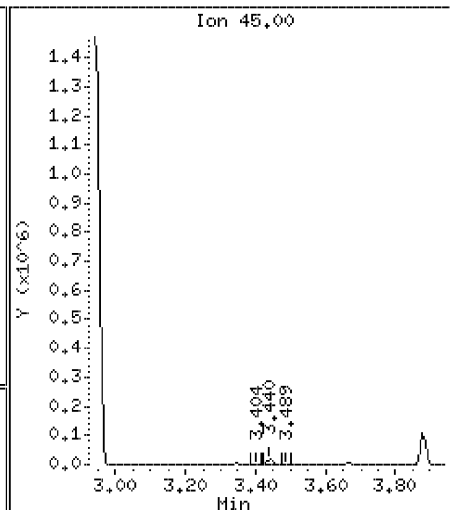
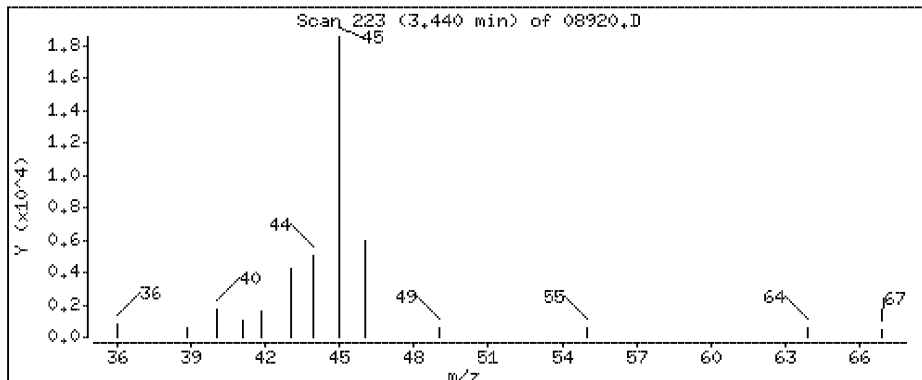
6 Chloromethane

Concentration: 0,277 ppbv



11 Ethanol

Concentration: 1.48 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

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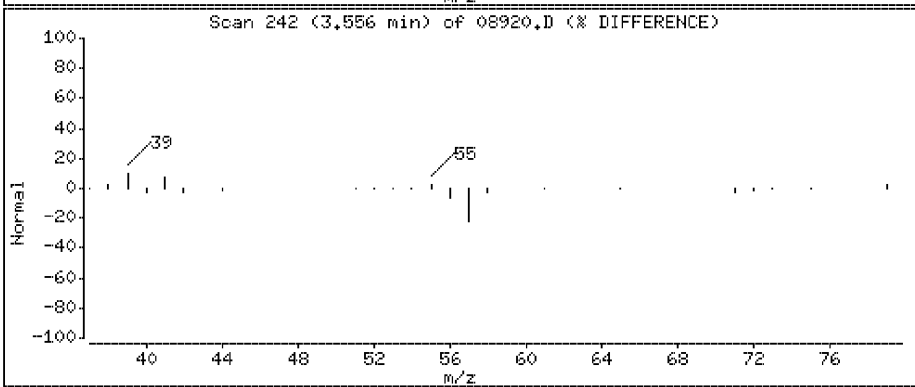
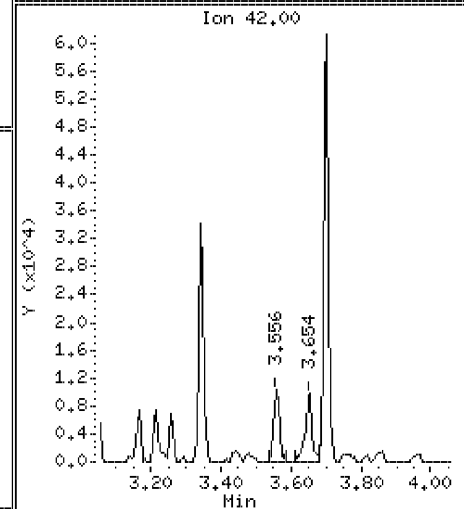
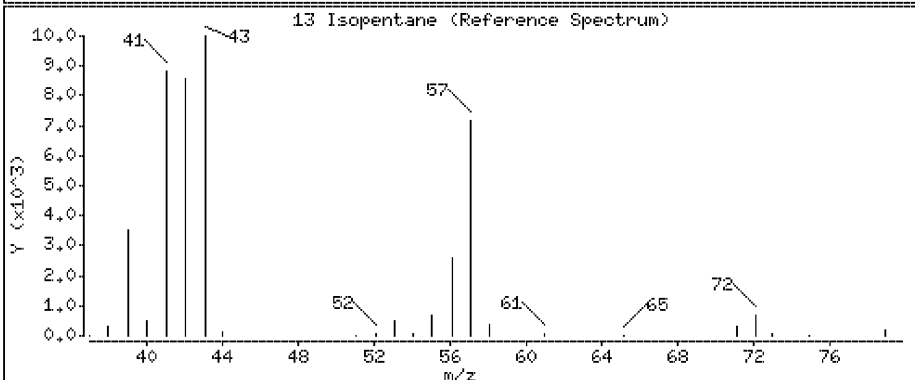
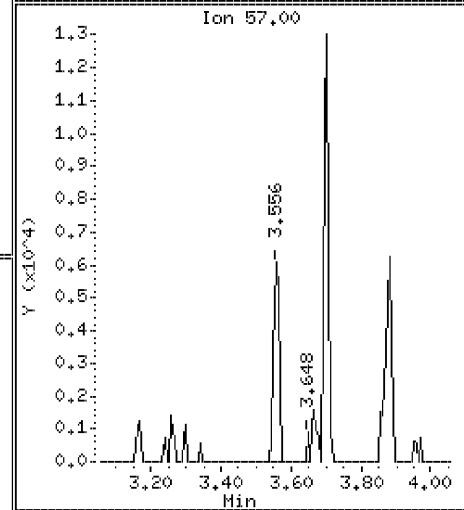
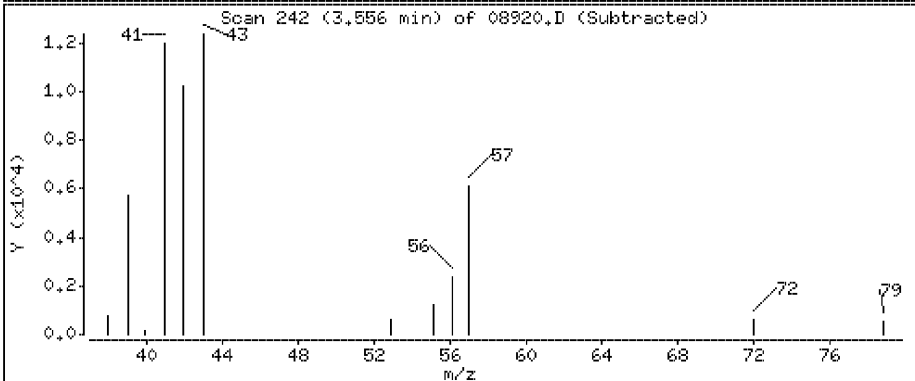
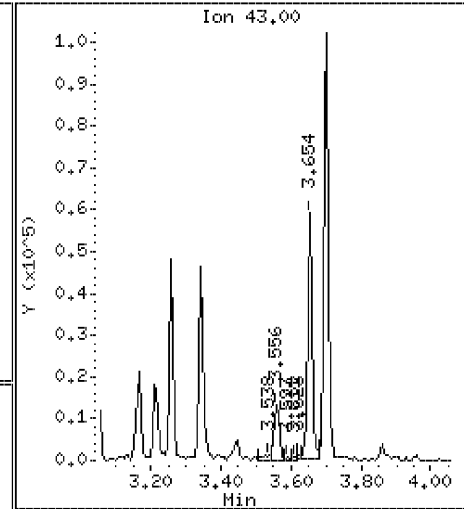
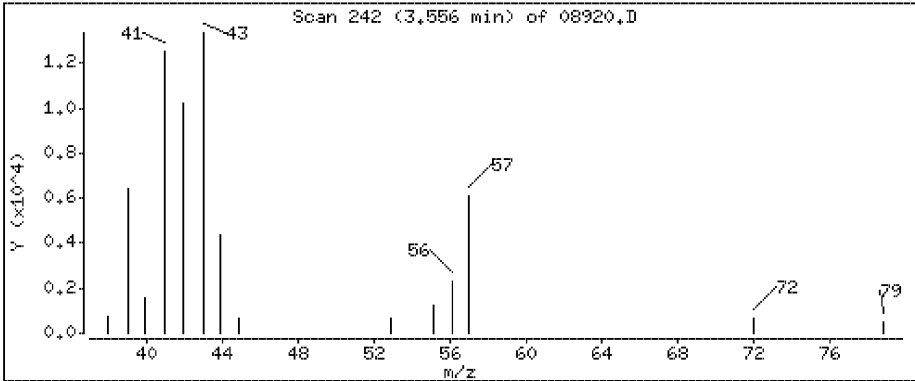
Operator: HJL

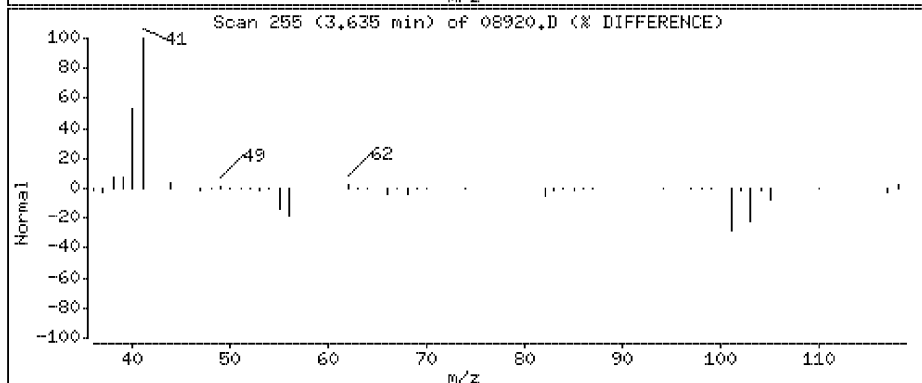
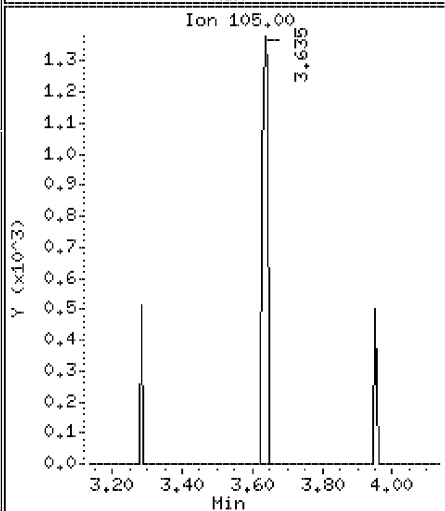
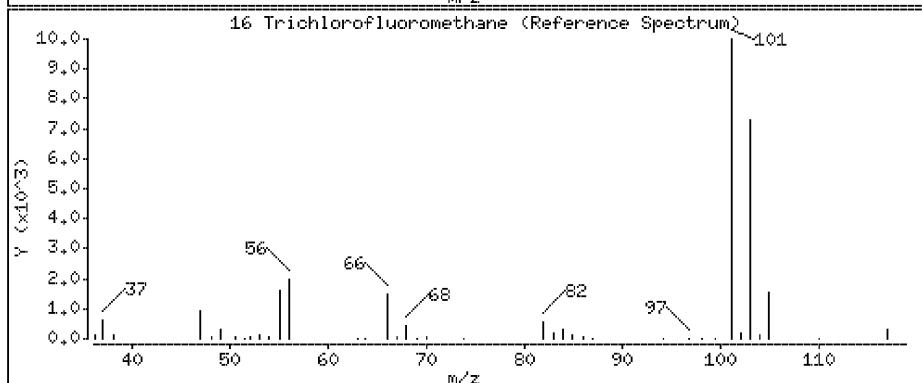
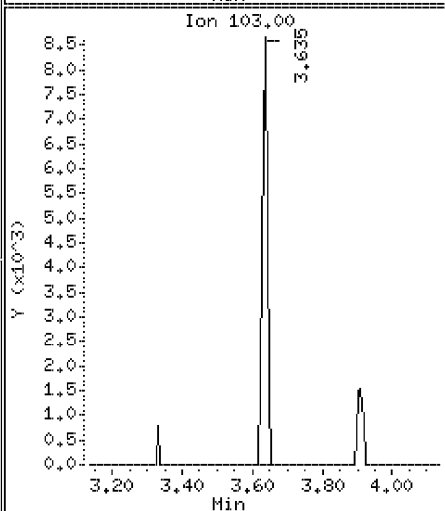
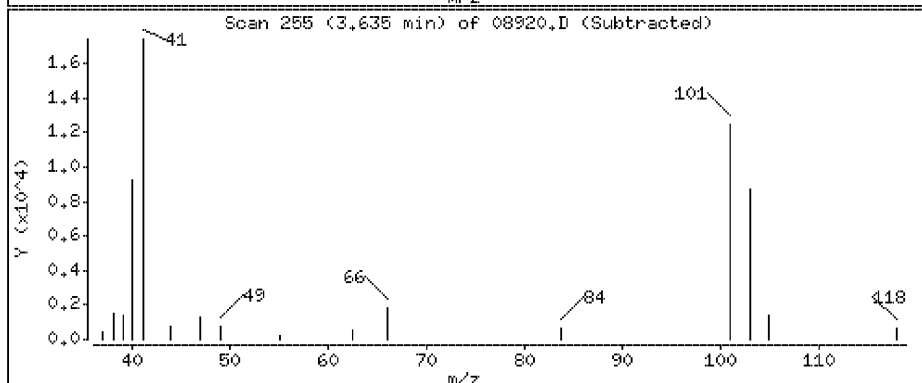
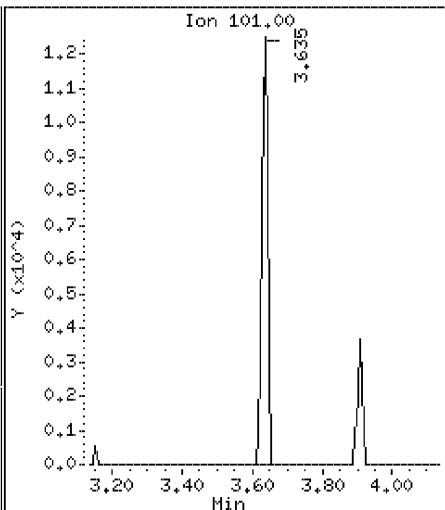
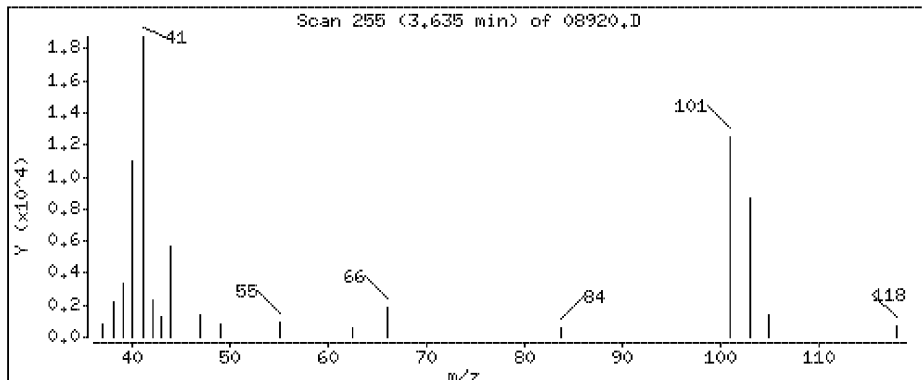
Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

13 Isopentane

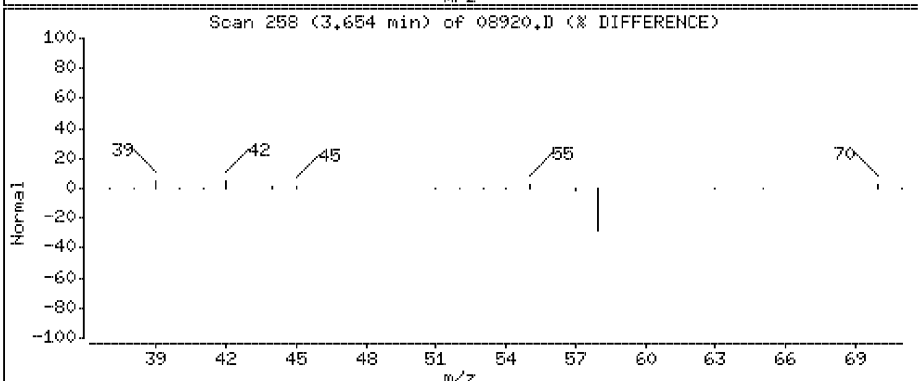
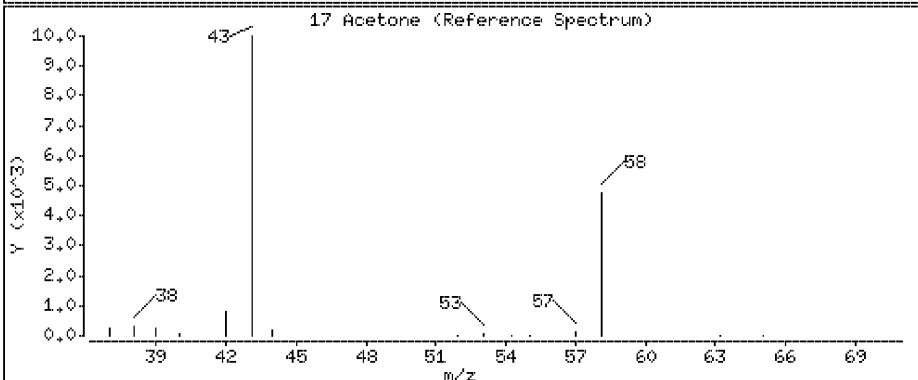
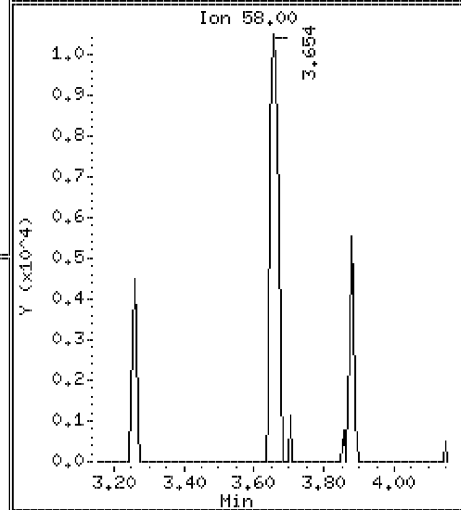
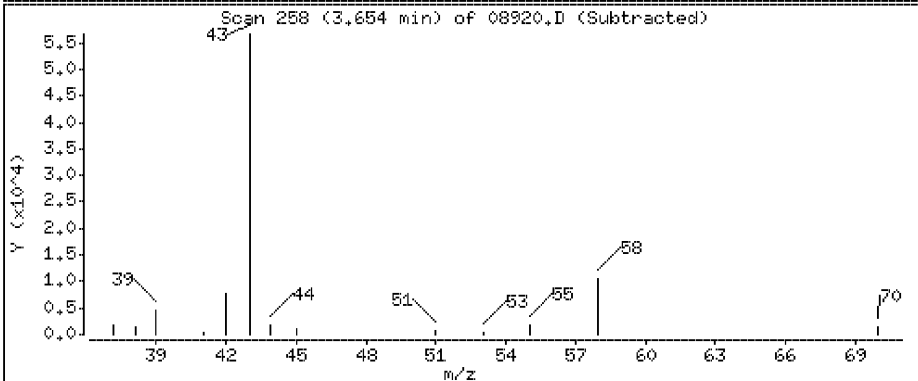
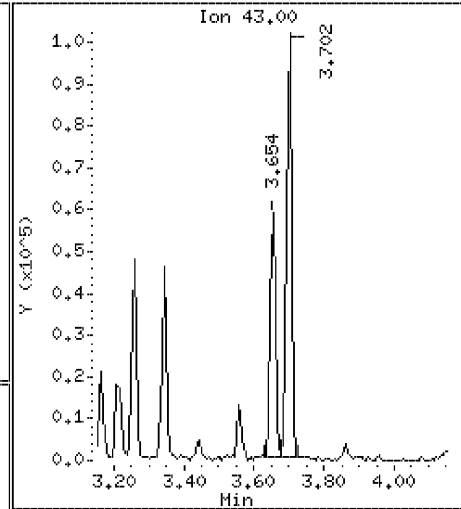
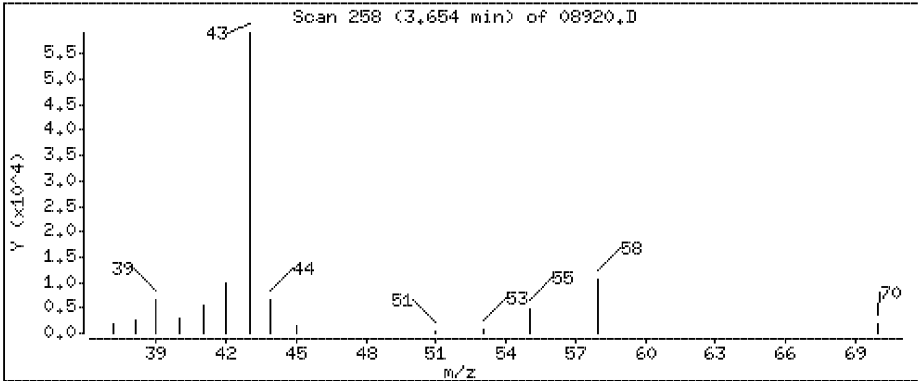
Concentration: 0.462 ppbv





17 Acetone

Concentration: 0.821 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

Sample Info:

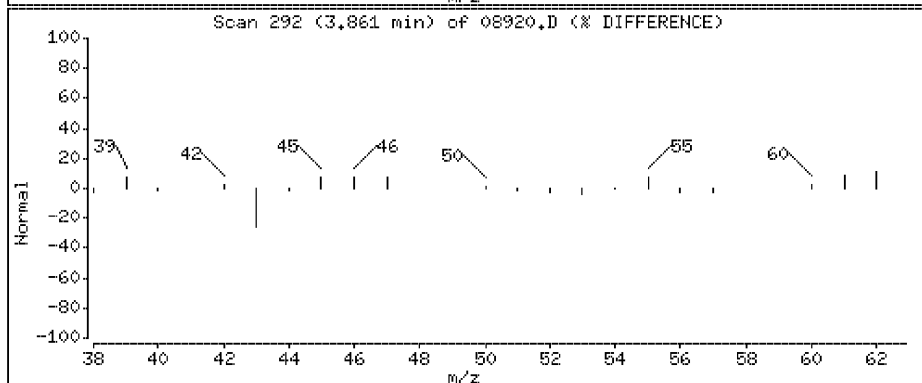
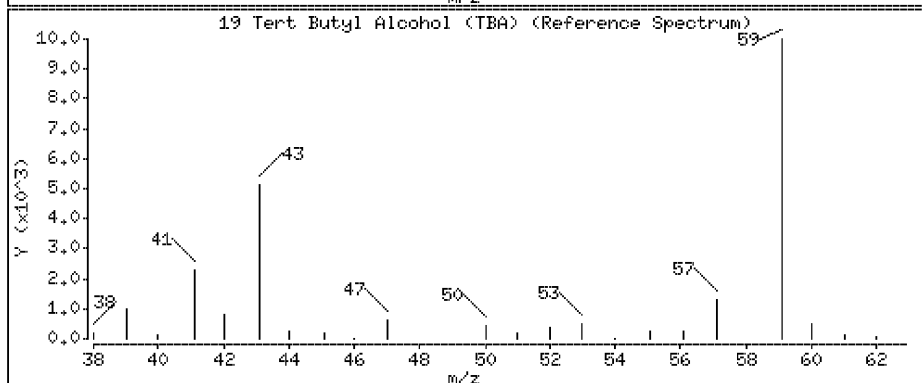
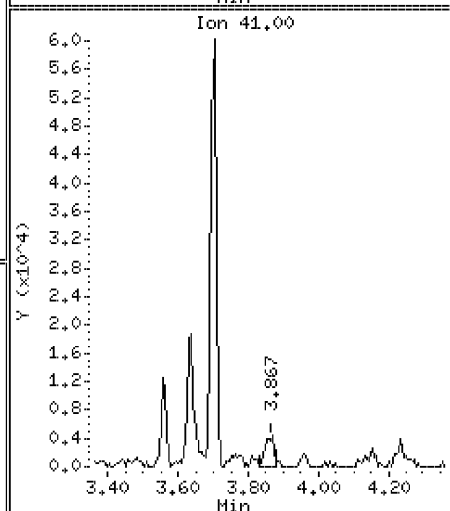
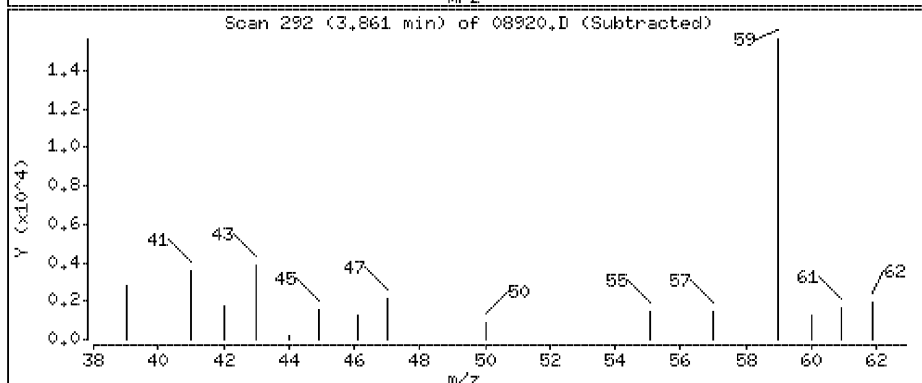
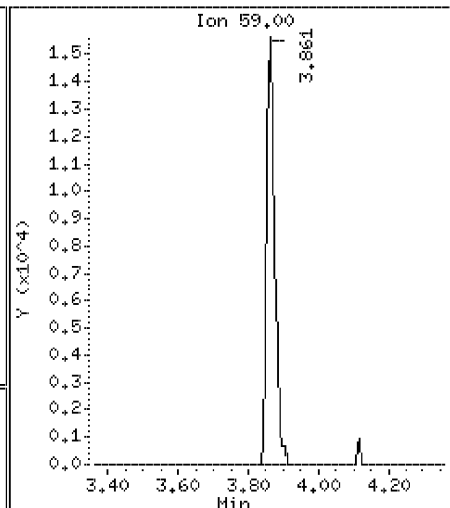
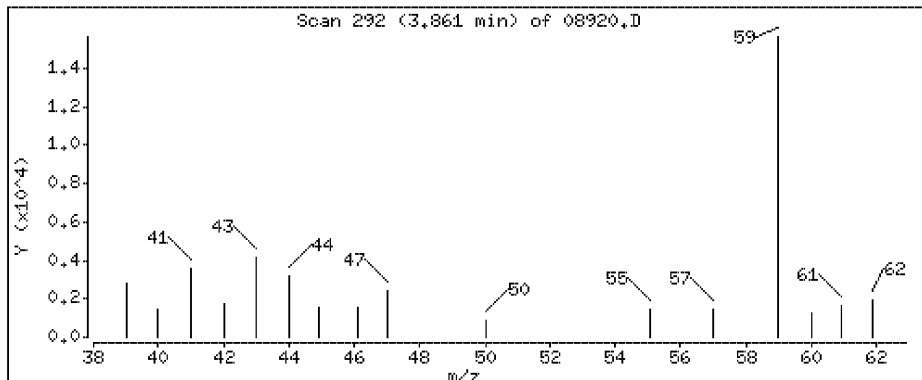
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

19 Tert Butyl Alcohol (TBA)

Concentration: 0,351 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

Sample Info:

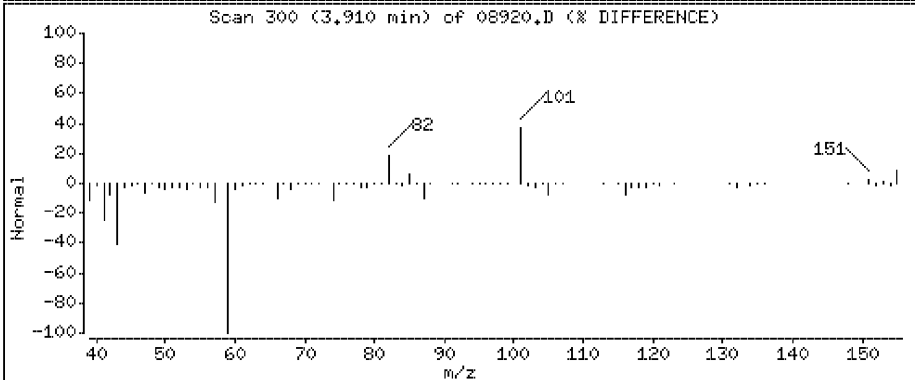
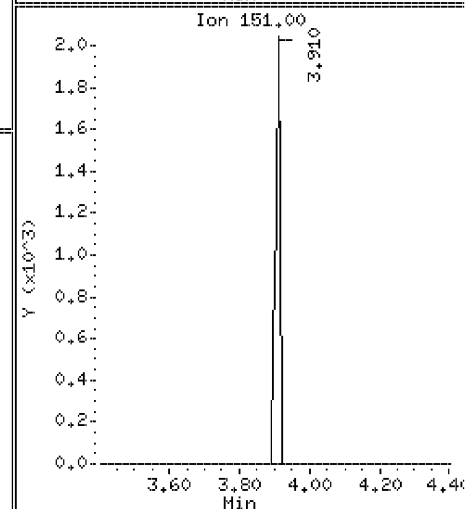
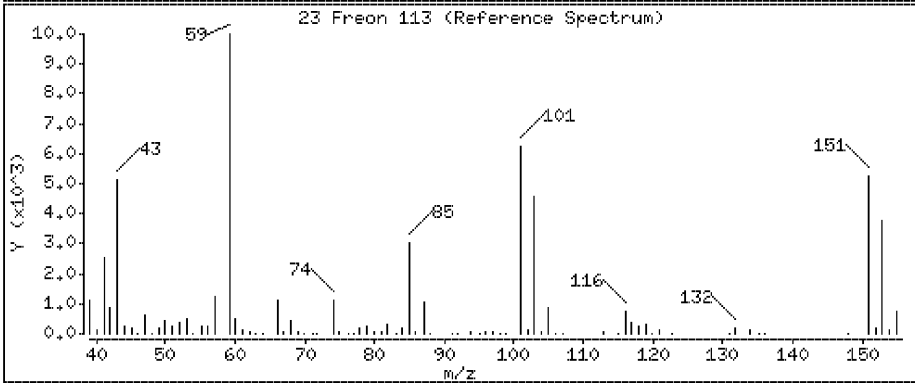
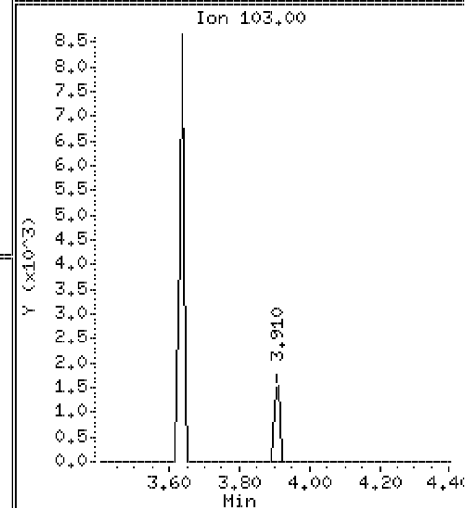
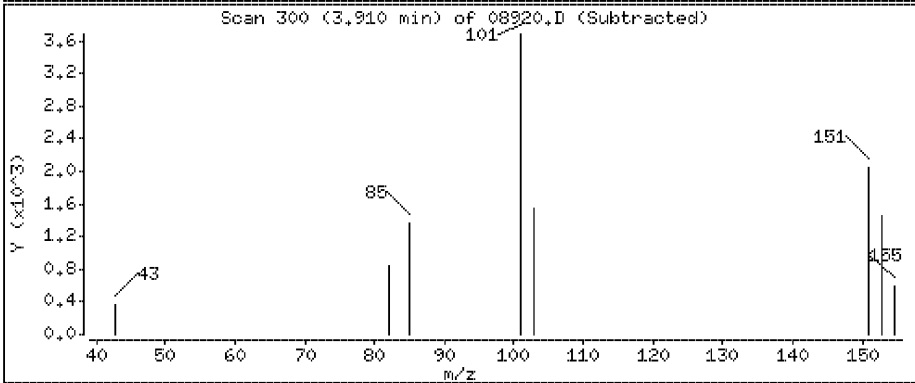
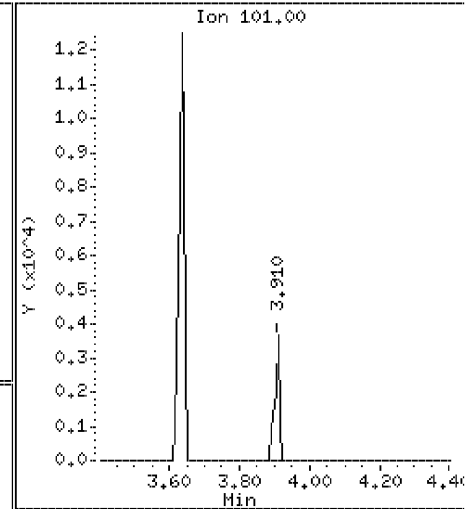
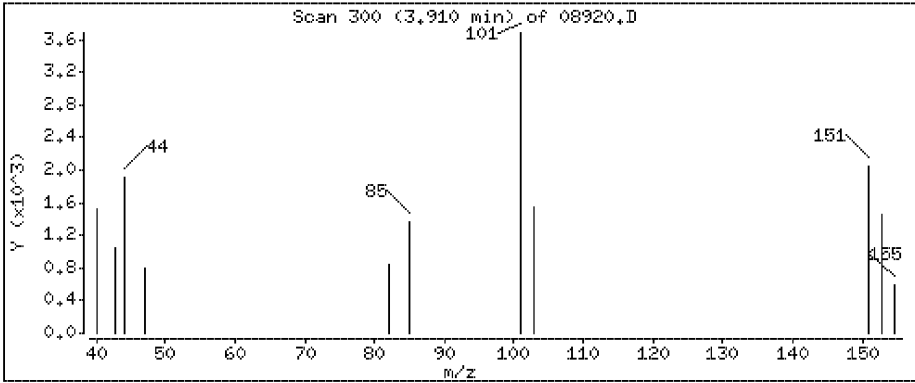
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

23 Freon 113

Concentration: 0.0618 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

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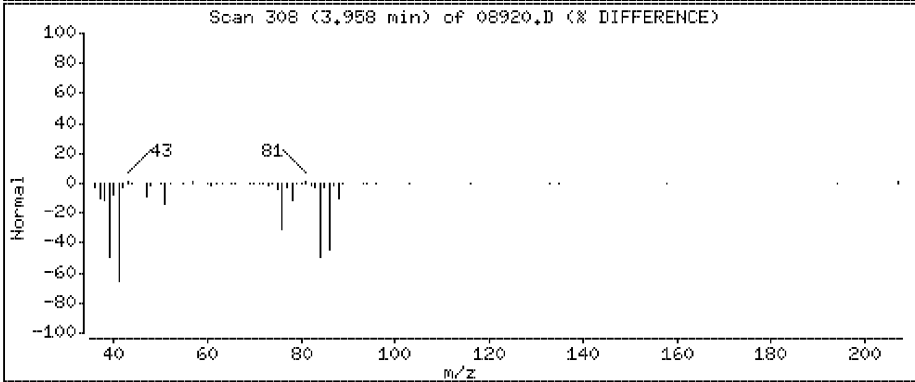
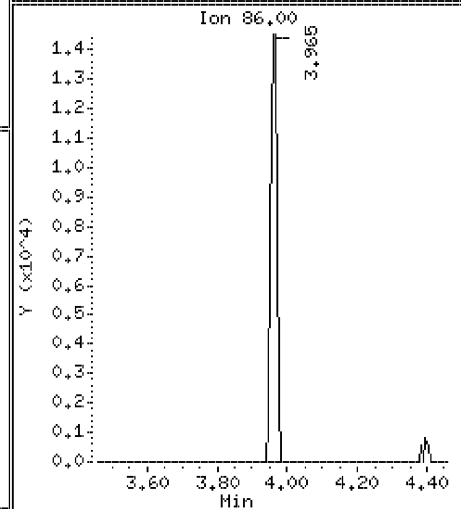
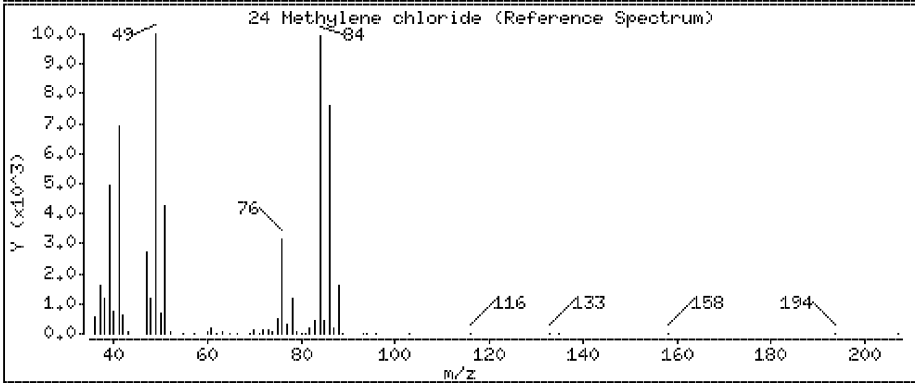
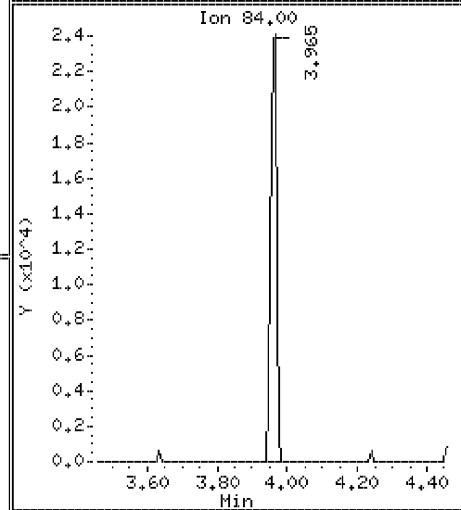
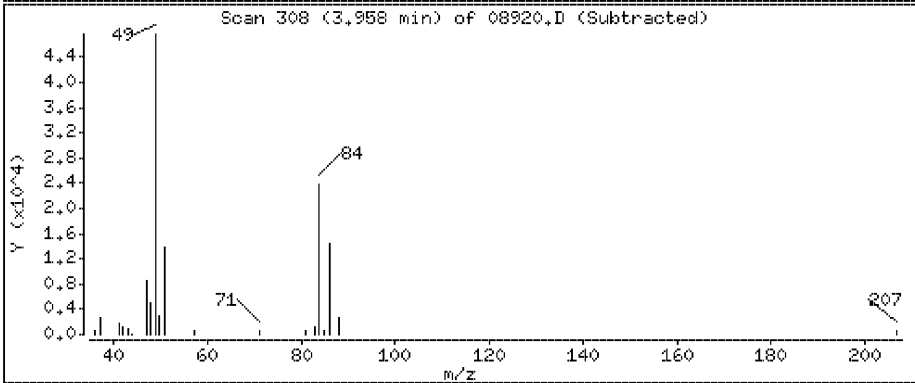
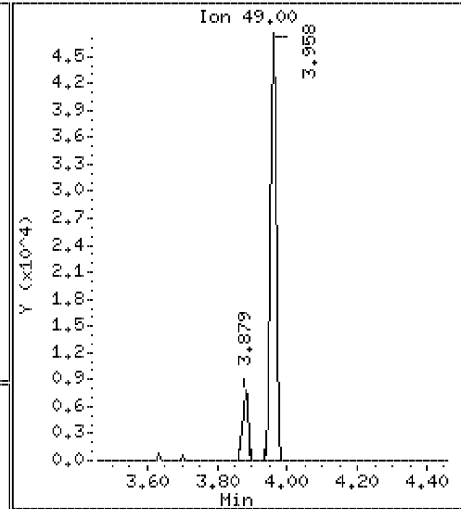
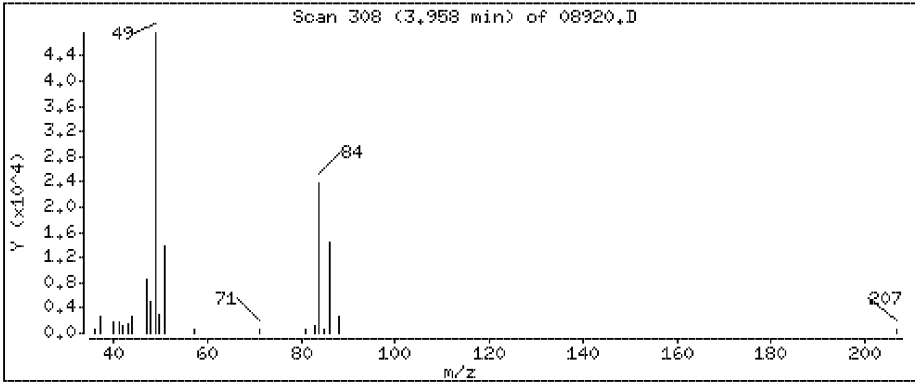
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

24 Methylene chloride

Concentration: 0,570 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

Sample Info:

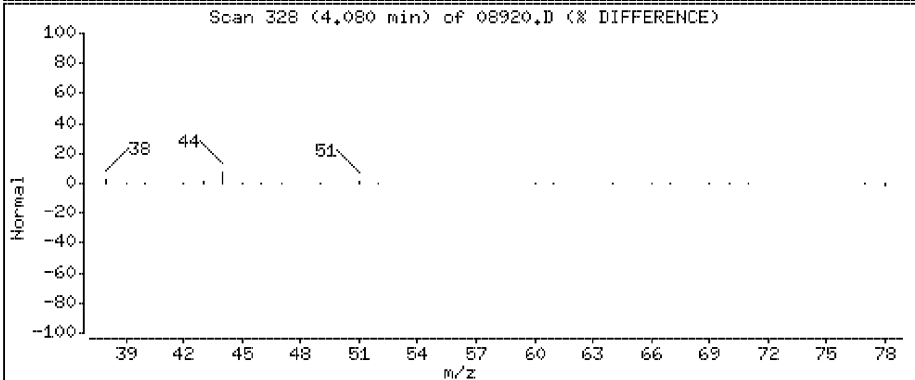
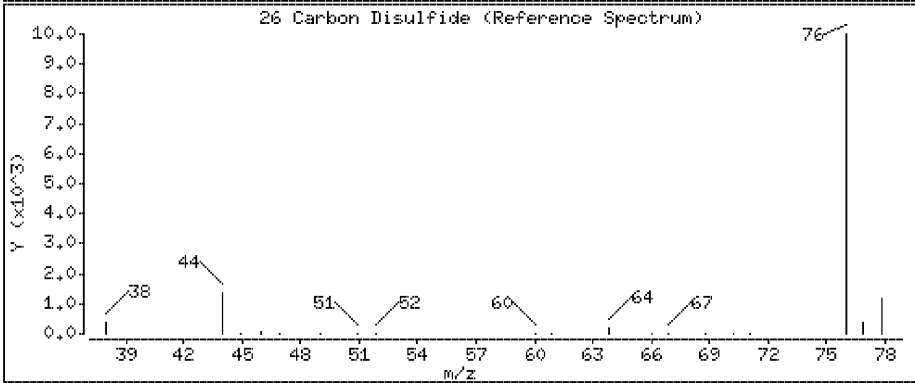
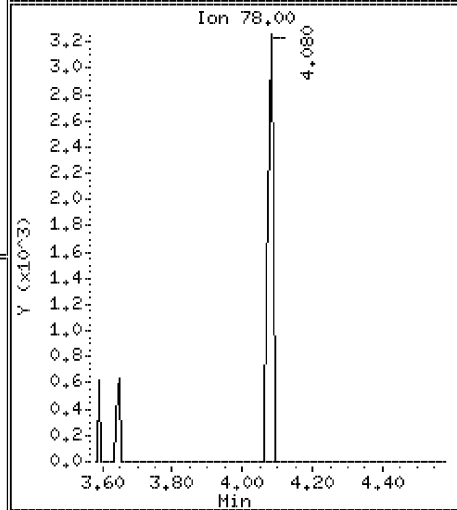
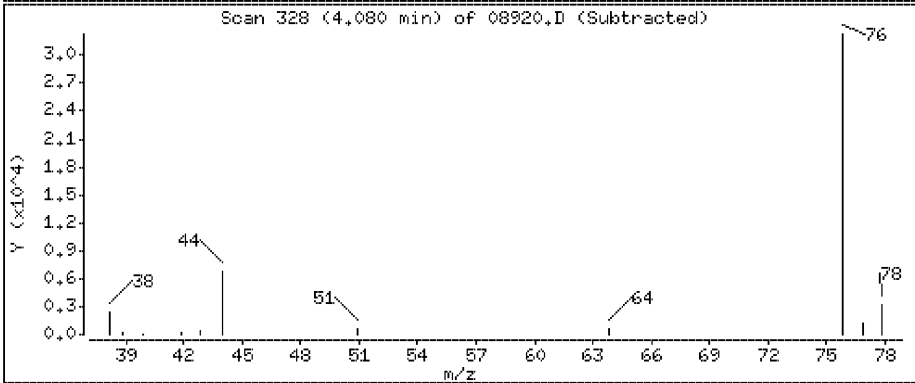
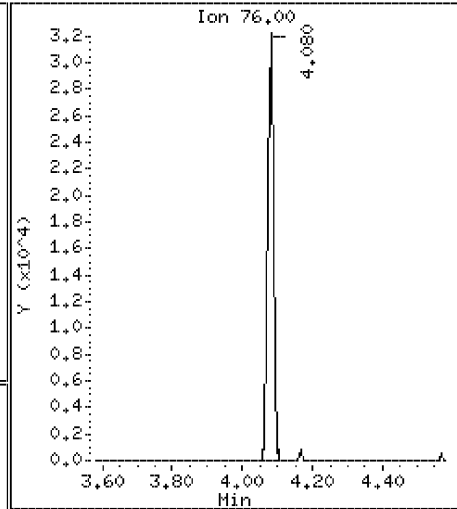
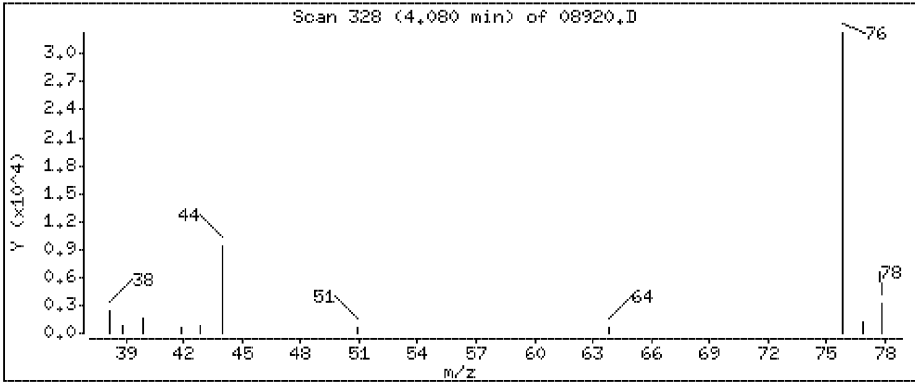
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

26 Carbon Disulfide

Concentration: 0.465 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

Sample Info:

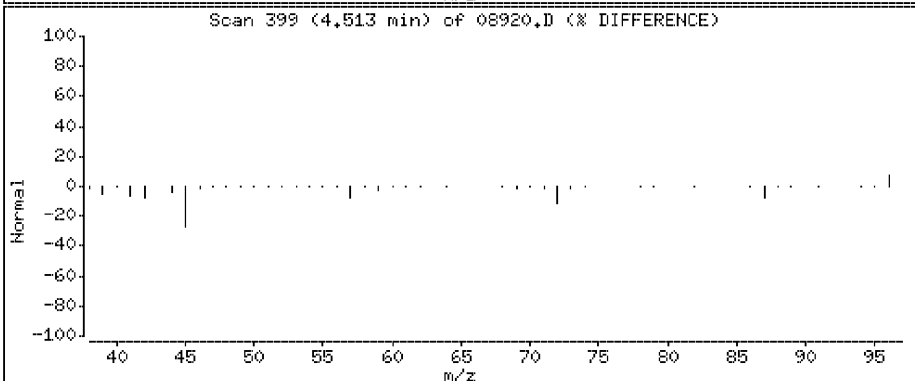
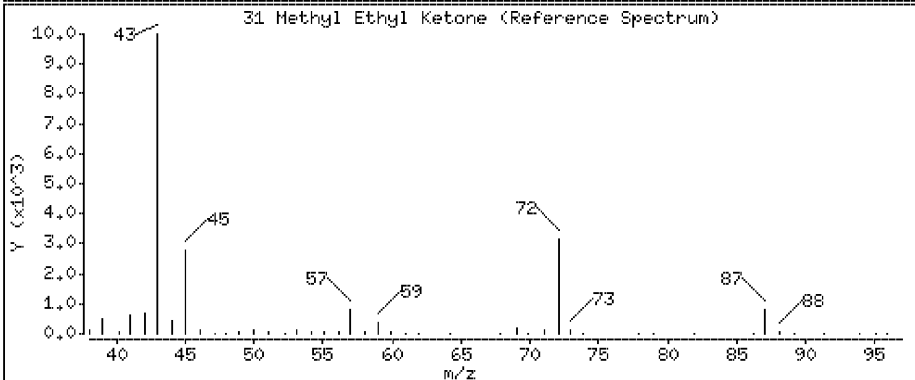
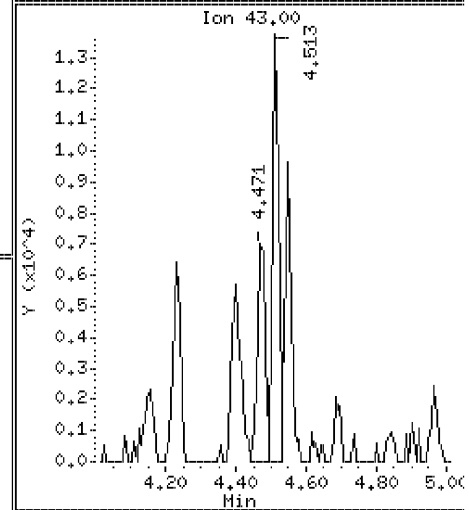
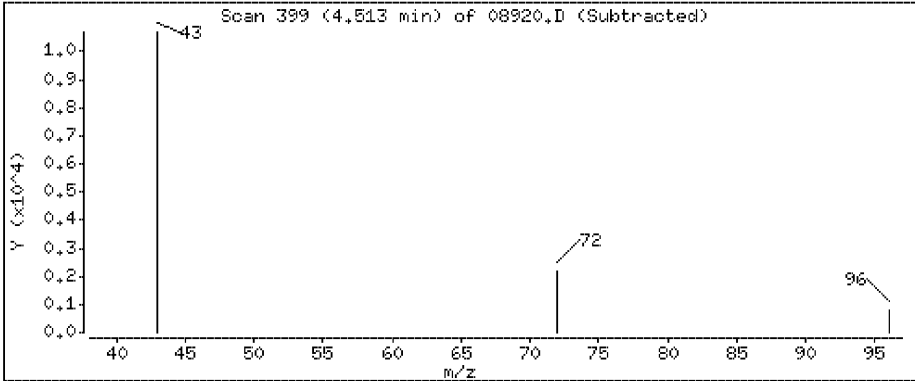
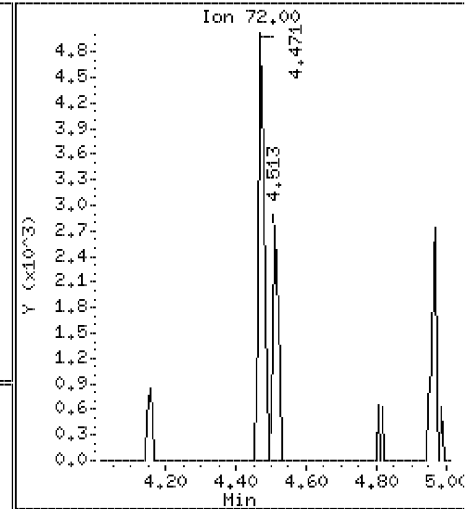
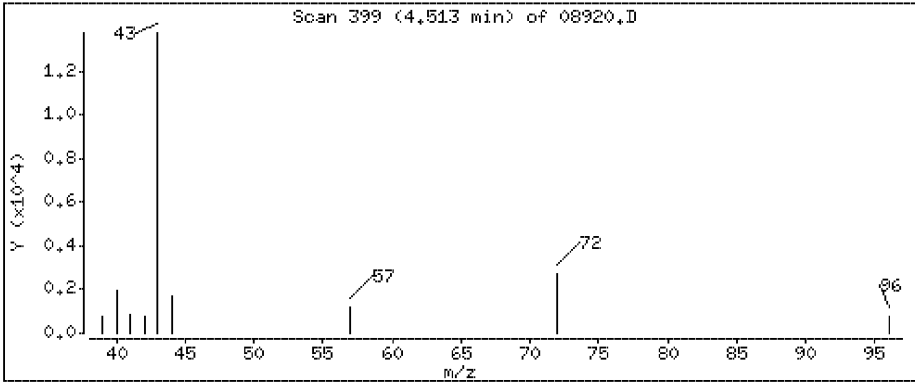
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

31 Methyl Ethyl Ketone

Concentration: 0,172 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

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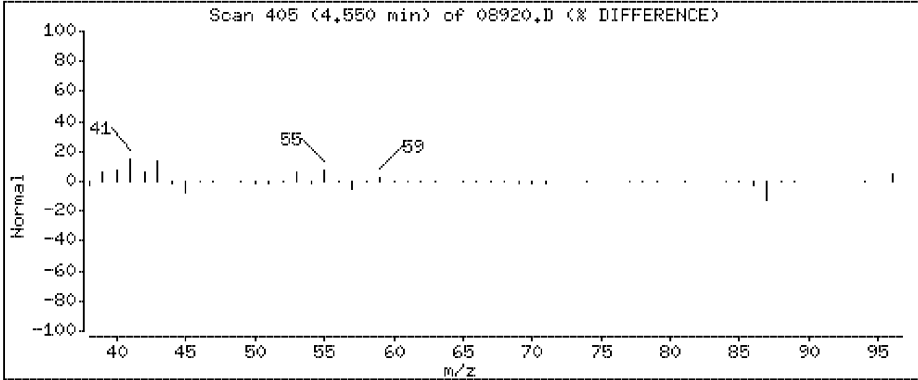
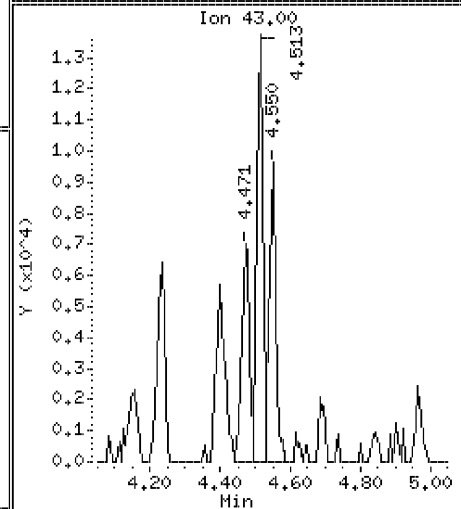
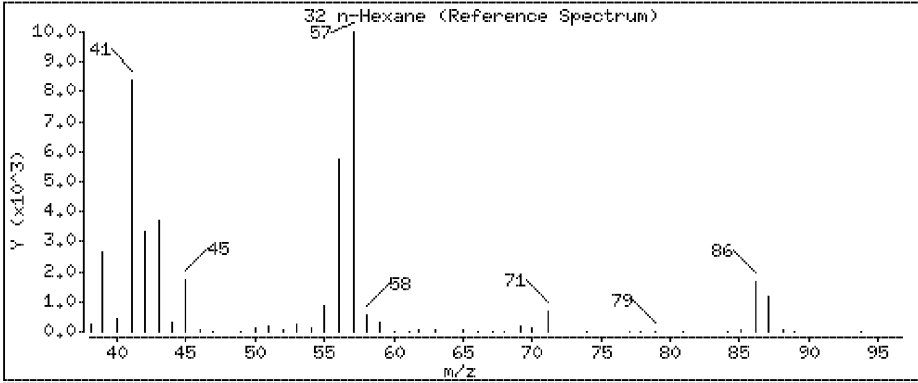
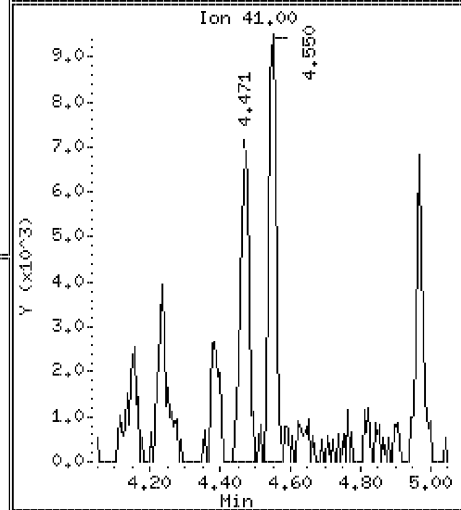
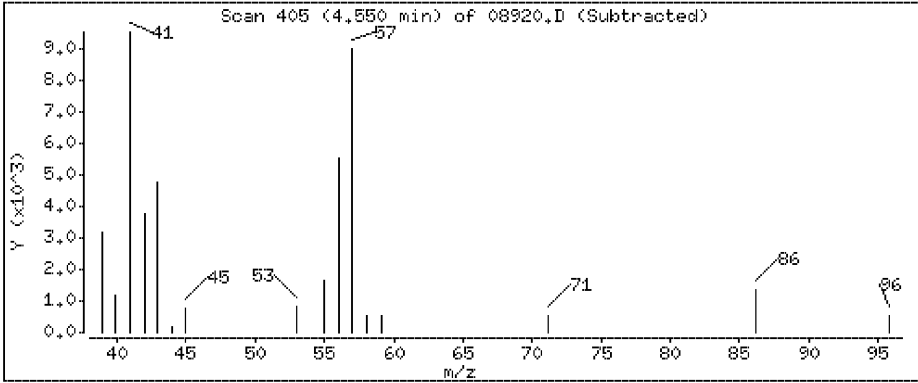
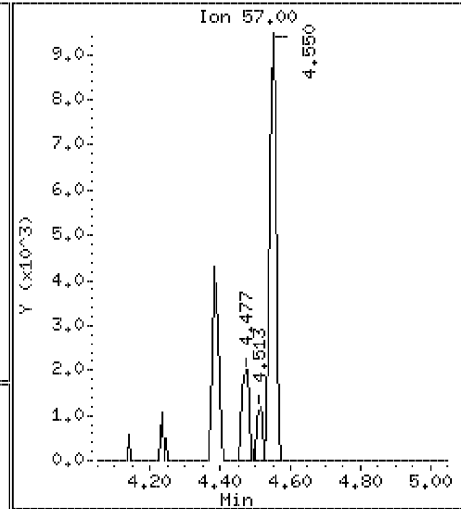
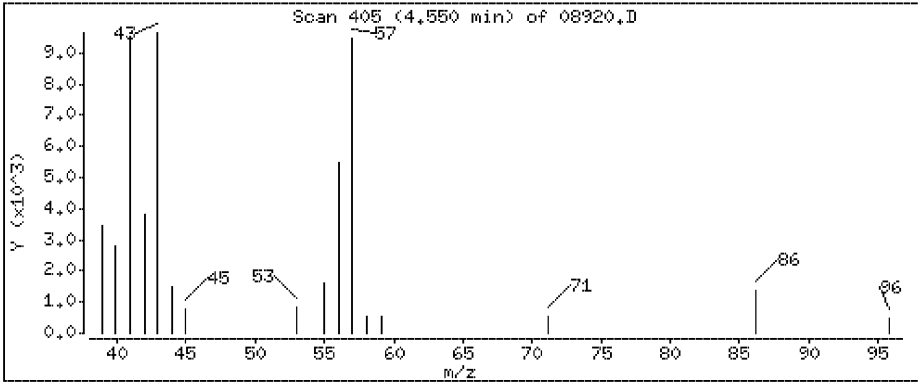
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

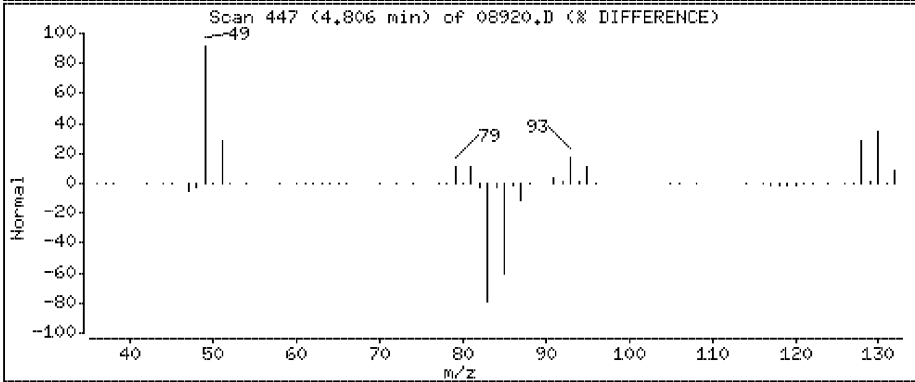
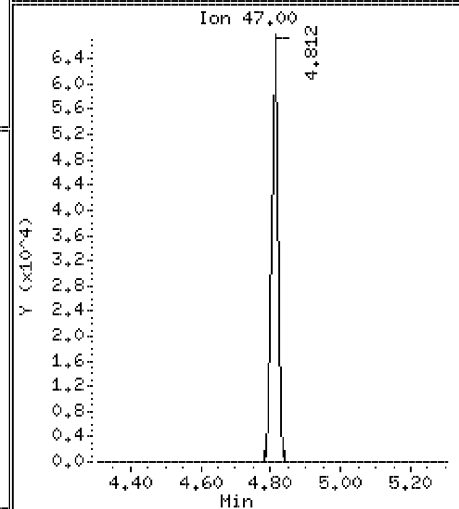
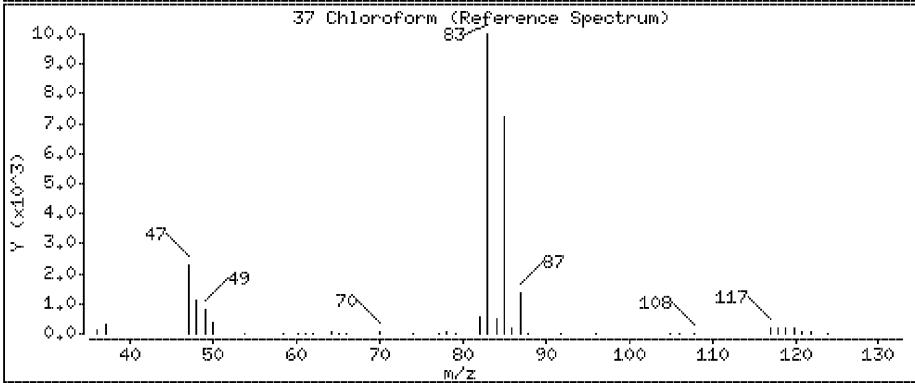
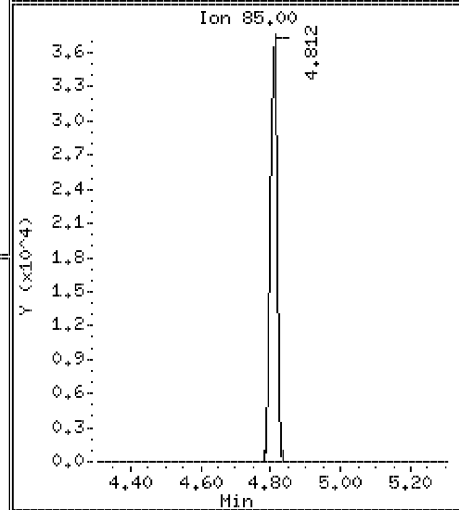
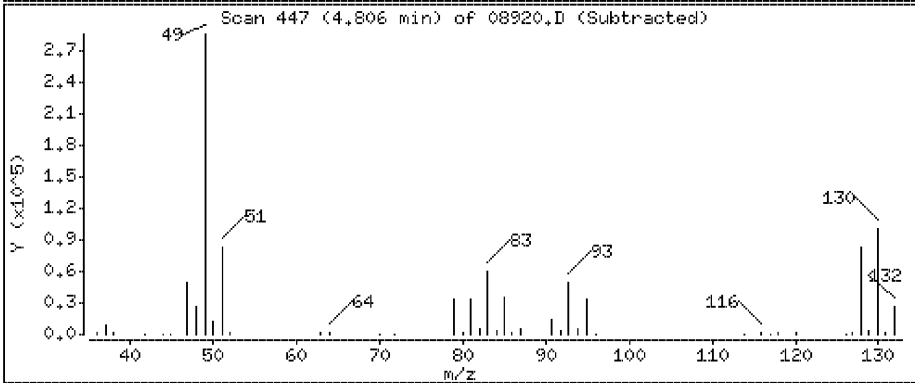
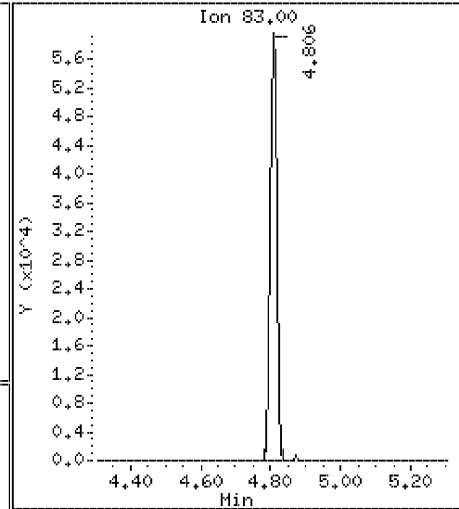
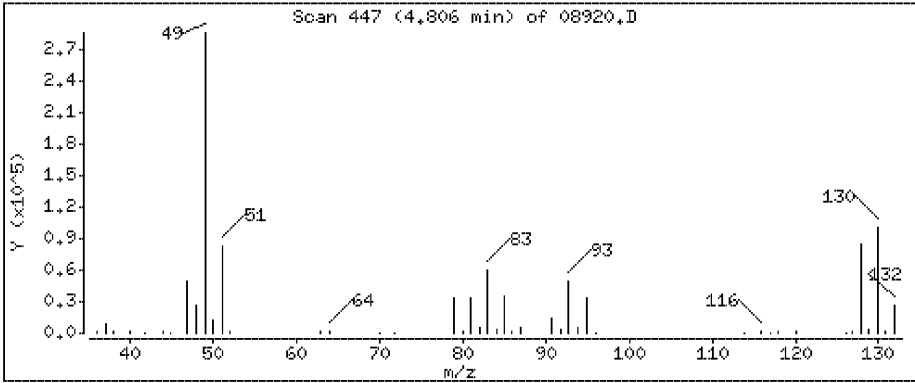
32 n-Hexane

Concentration: 0.222 ppbv



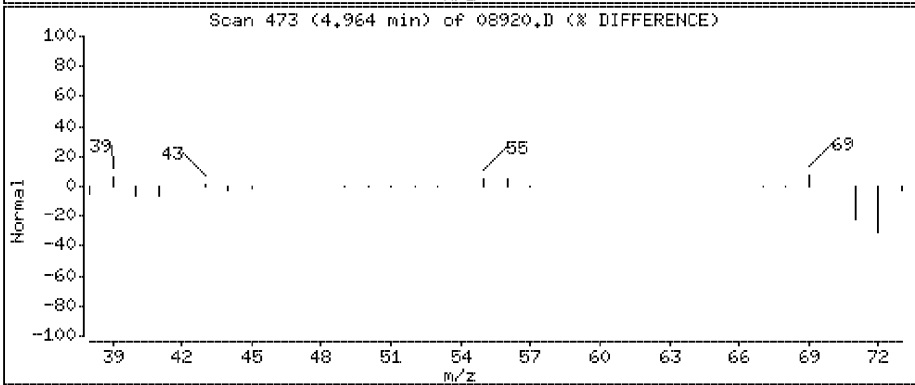
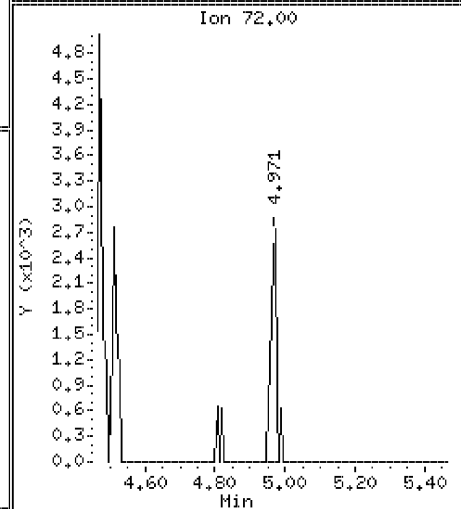
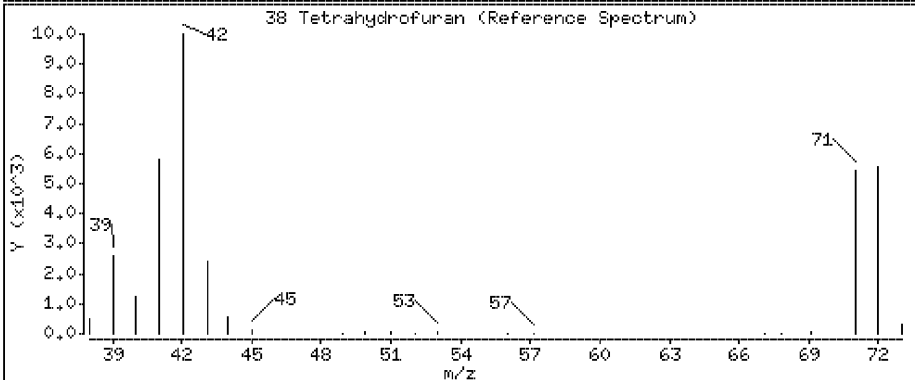
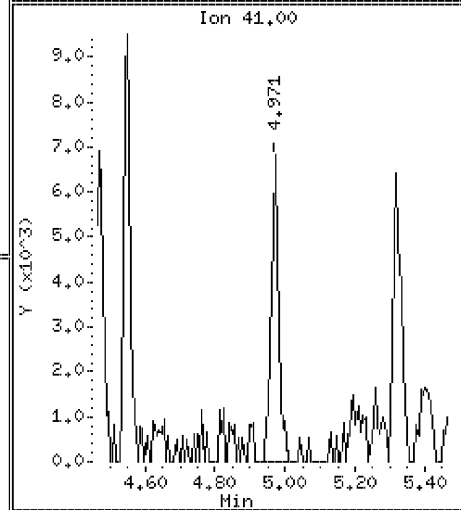
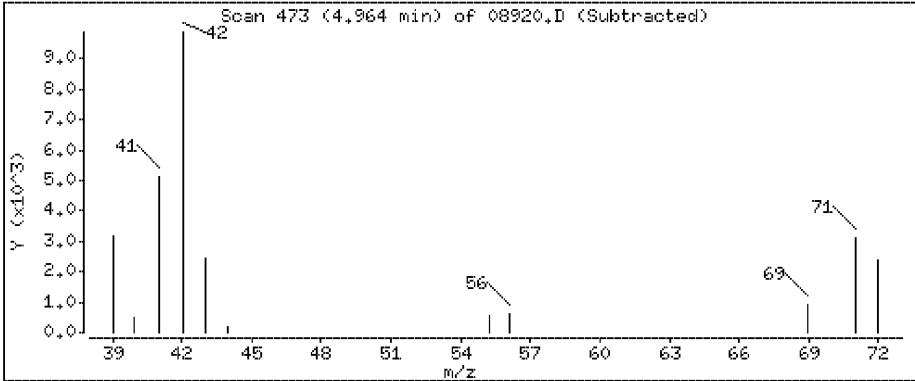
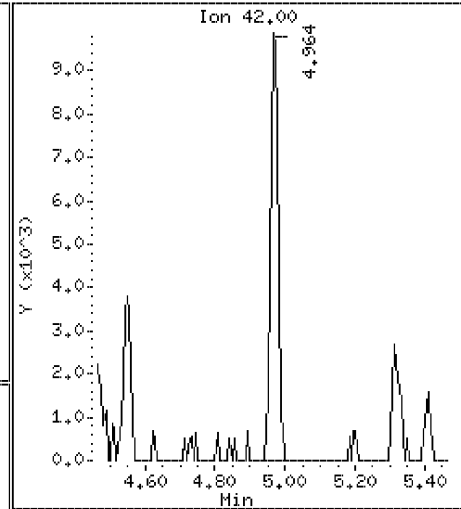
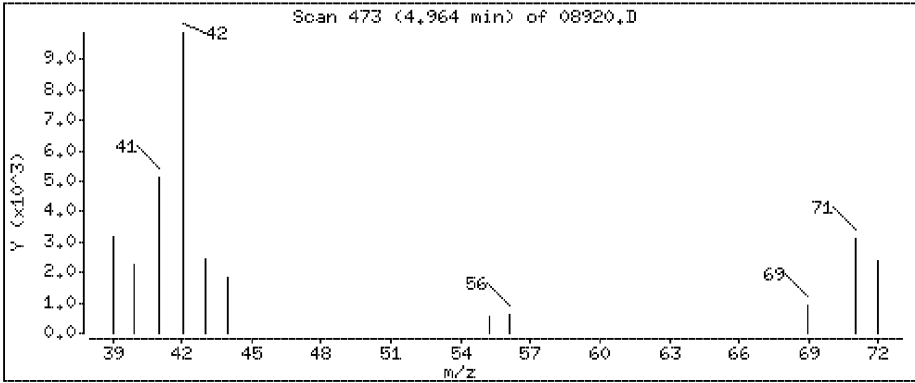
37 Chloroform

Concentration: 1.19 ppbv



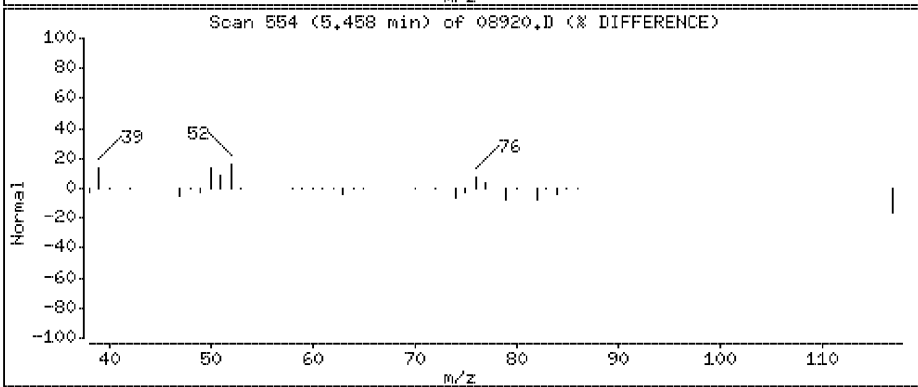
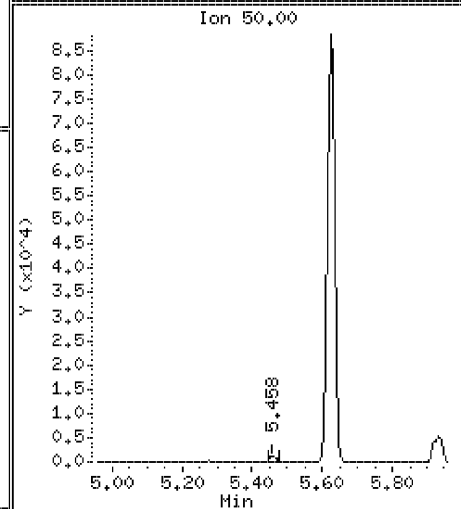
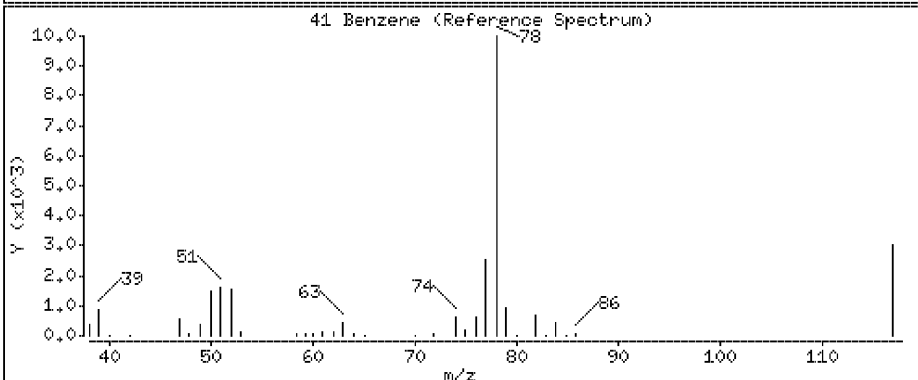
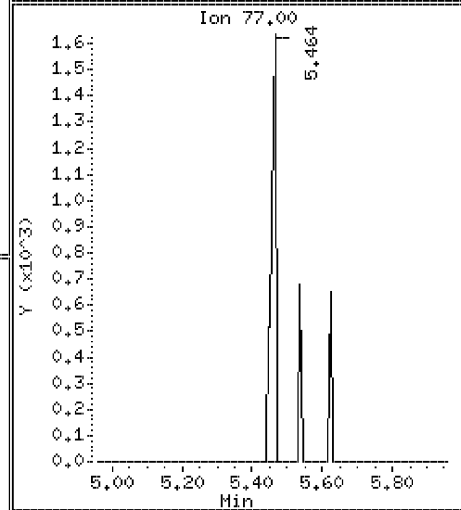
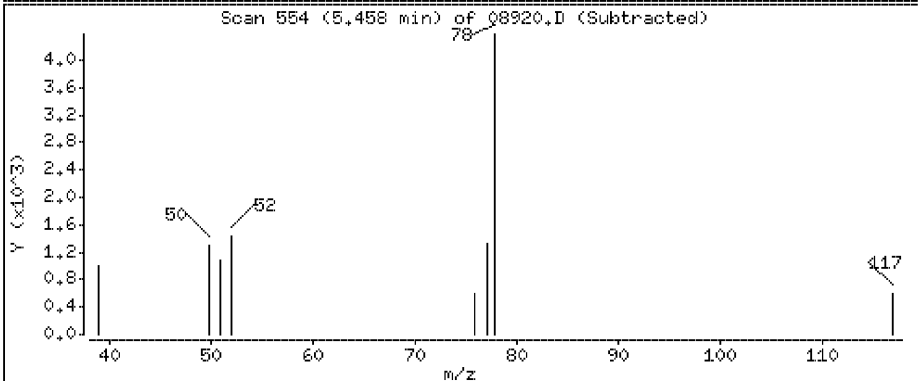
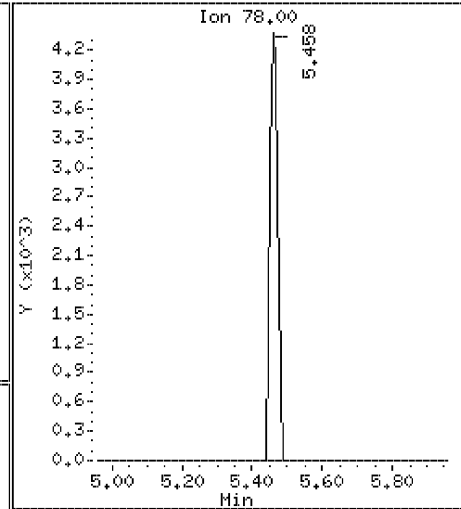
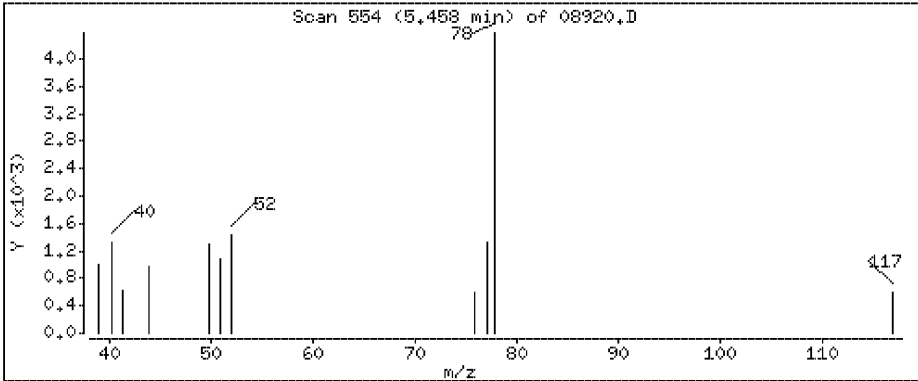
38 Tetrahydrofuran

Concentration: 0,364 ppbv



41 Benzene

Concentration: 0.0817 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

Sample Info:

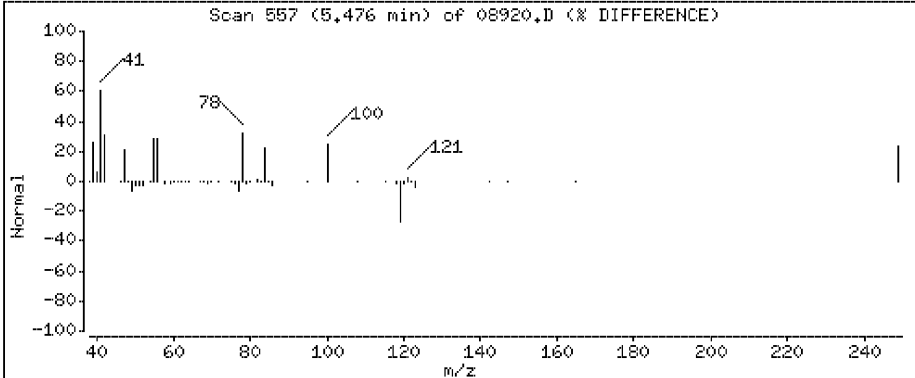
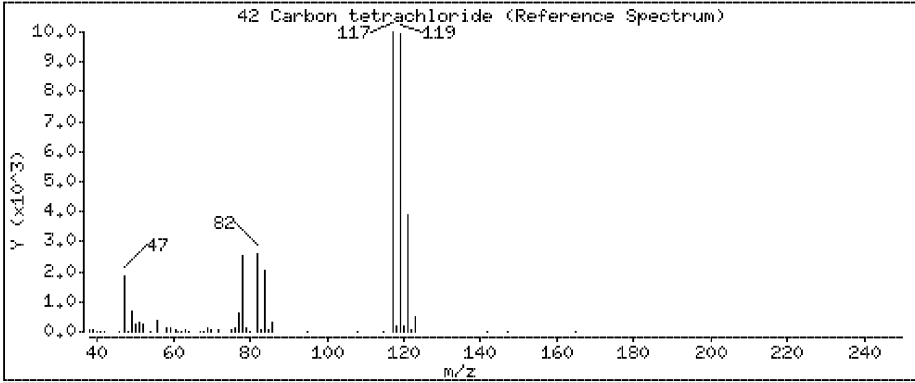
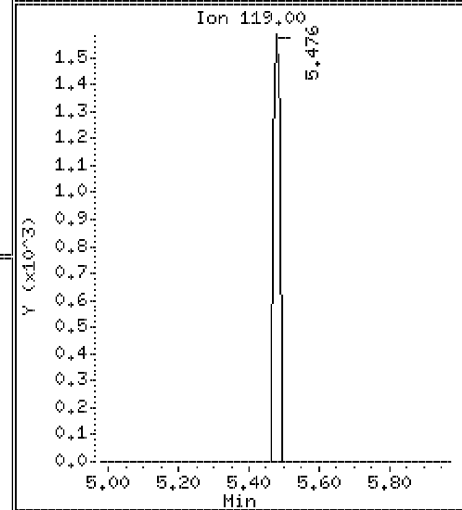
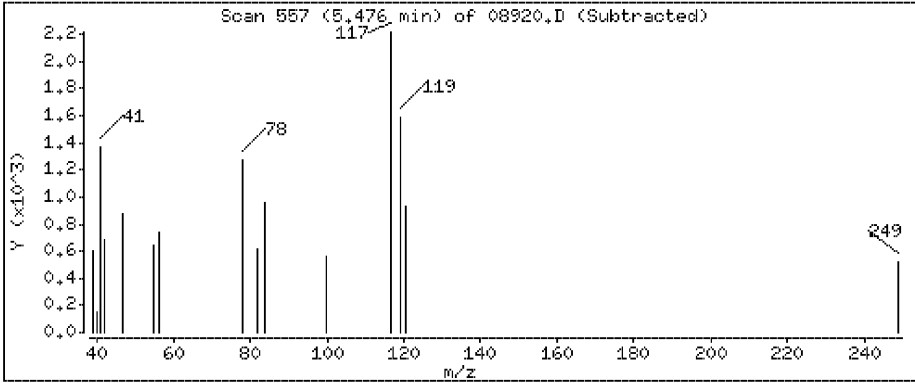
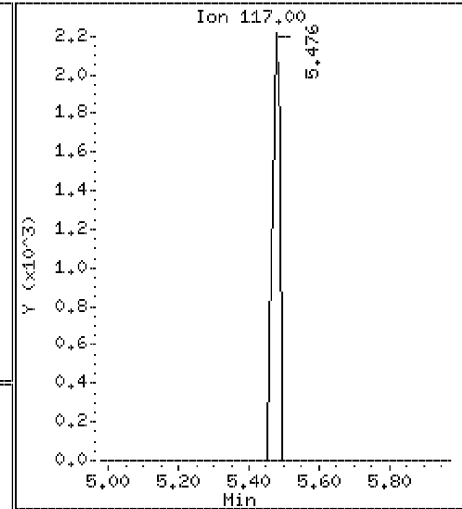
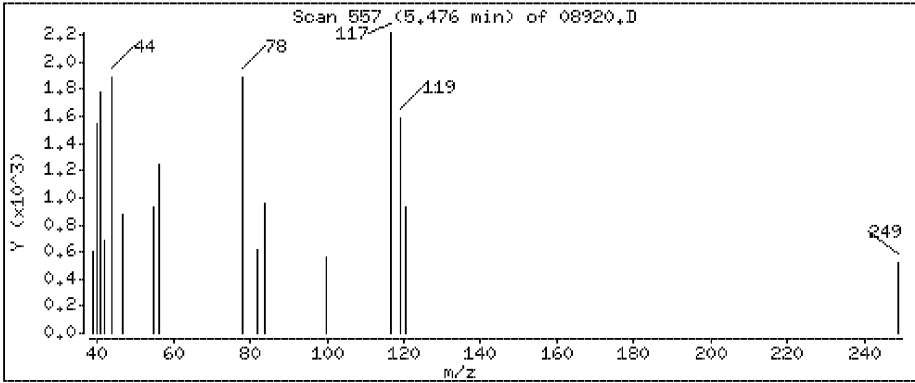
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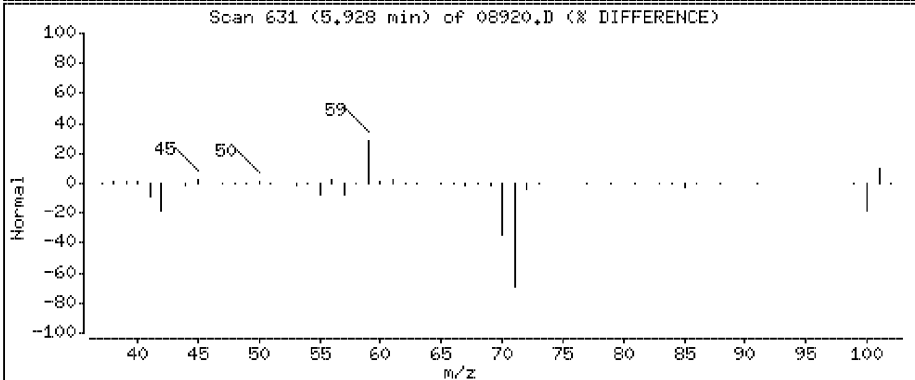
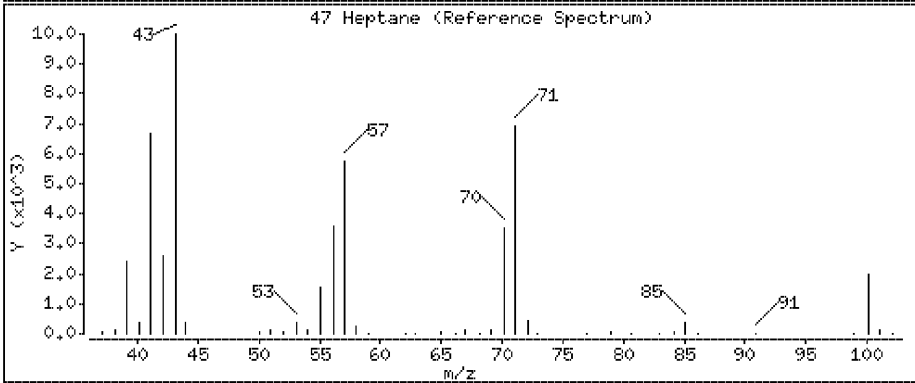
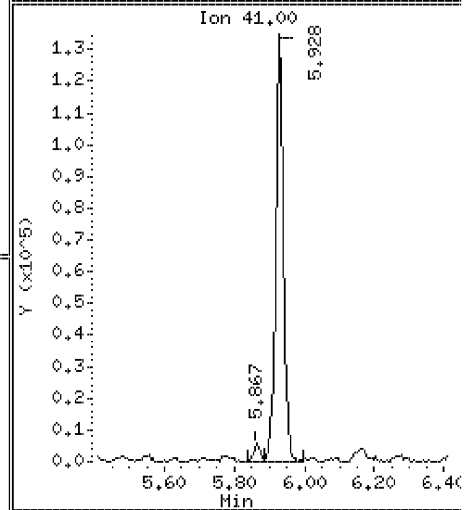
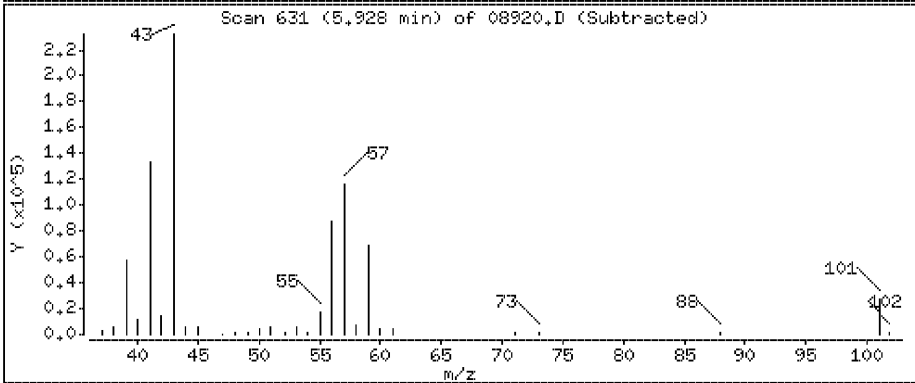
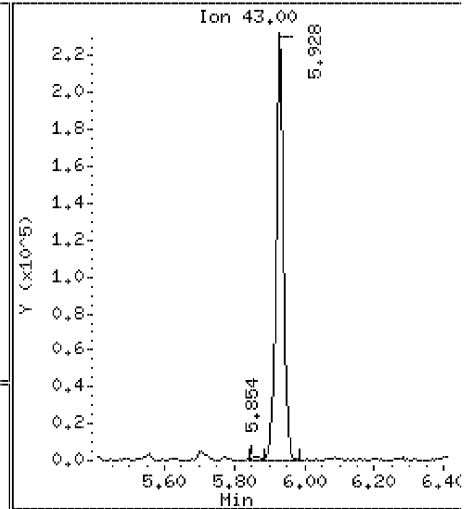
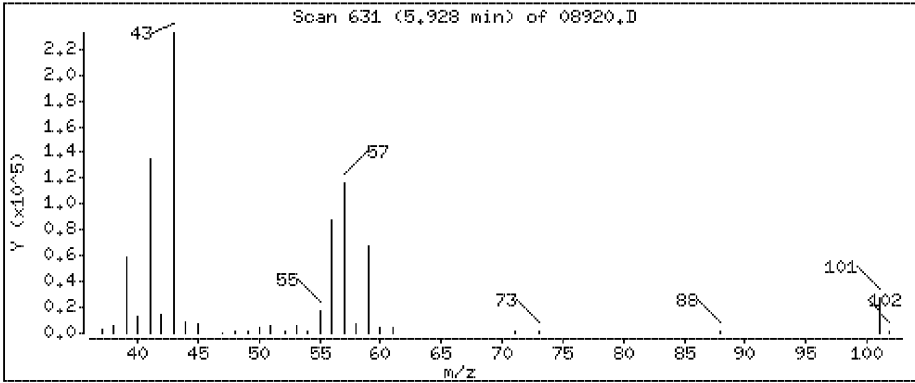
Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

42 Carbon tetrachloride

Concentration: 0.0534 ppbv





Data File: \\192.168.10.12\chem\10airI,i\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

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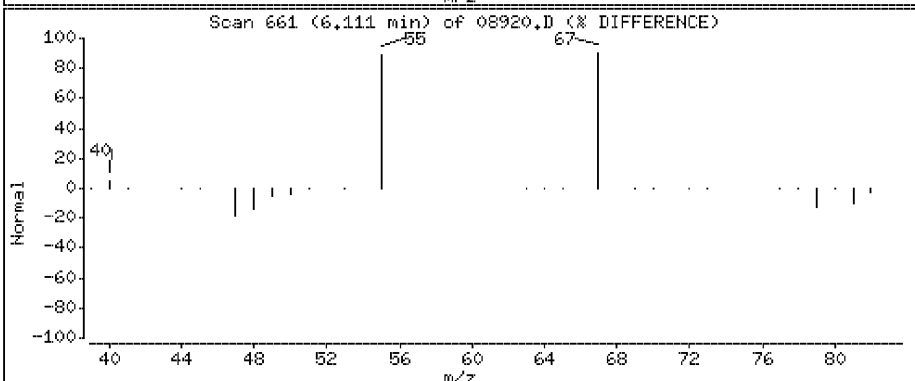
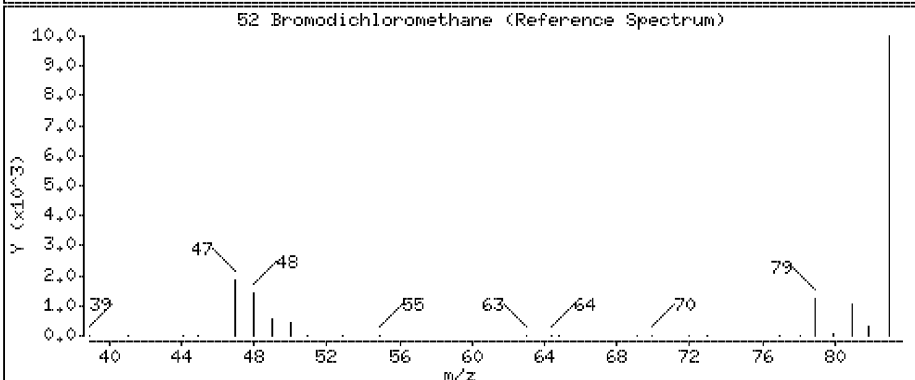
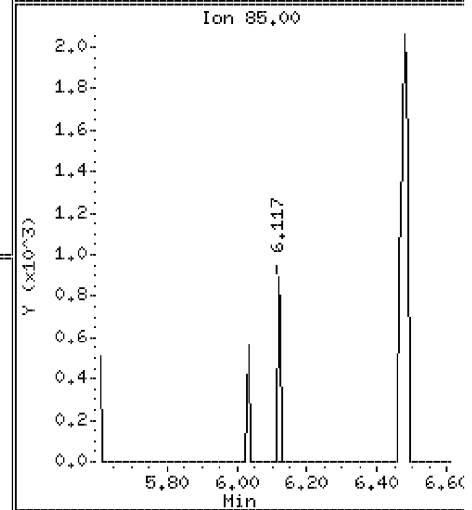
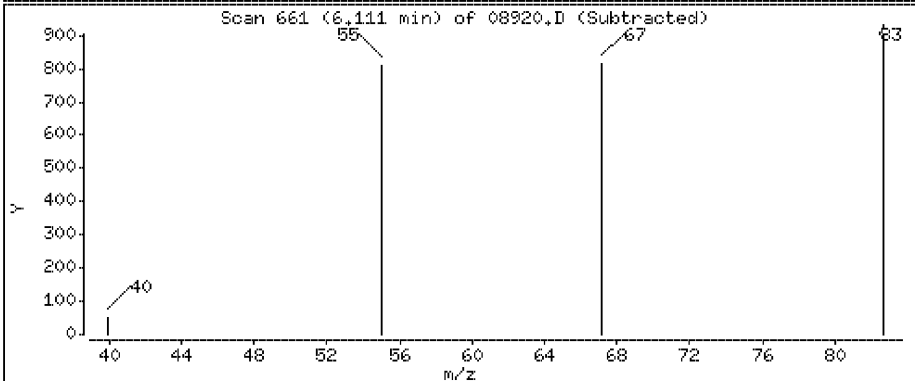
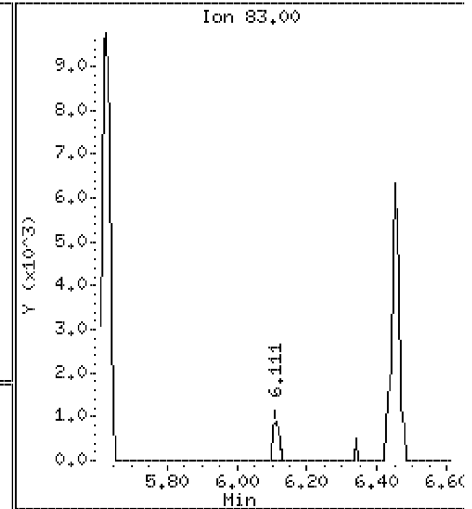
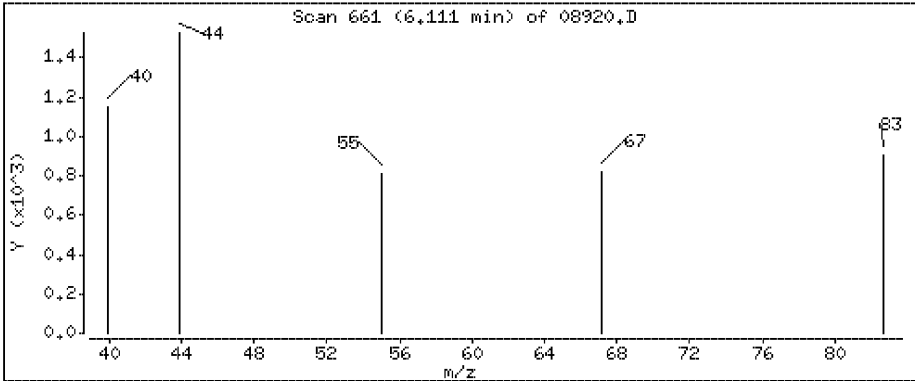
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

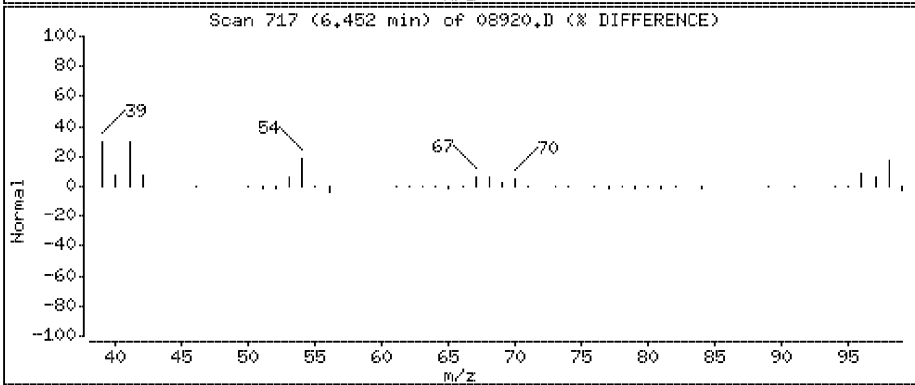
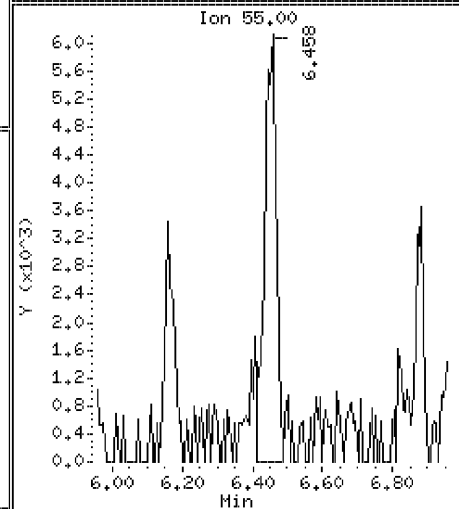
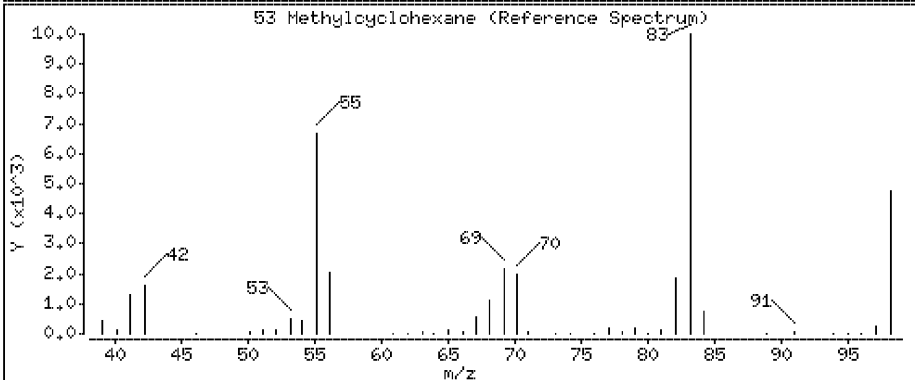
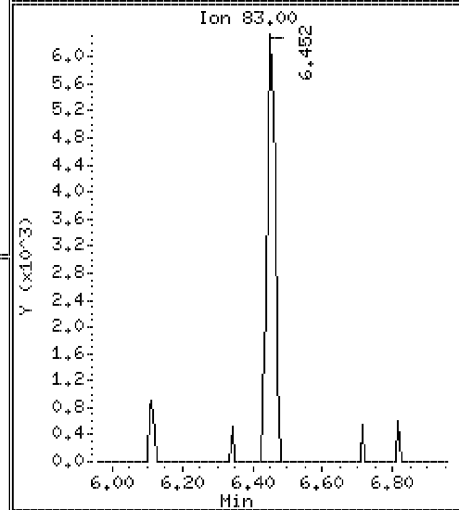
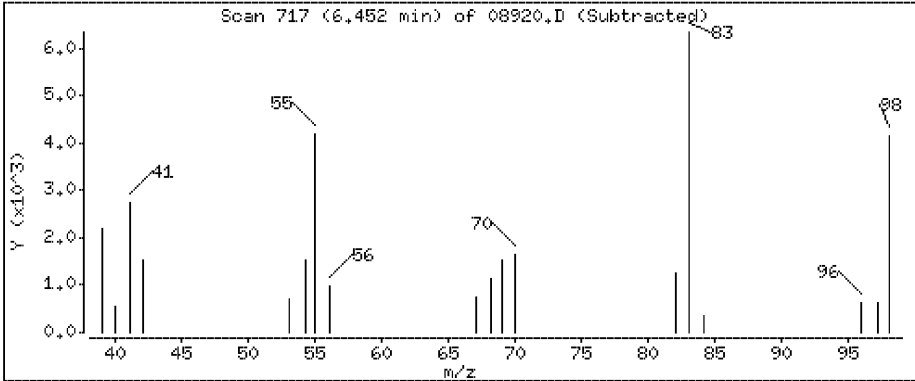
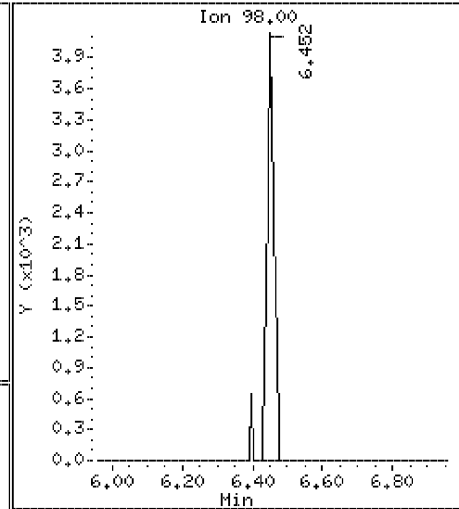
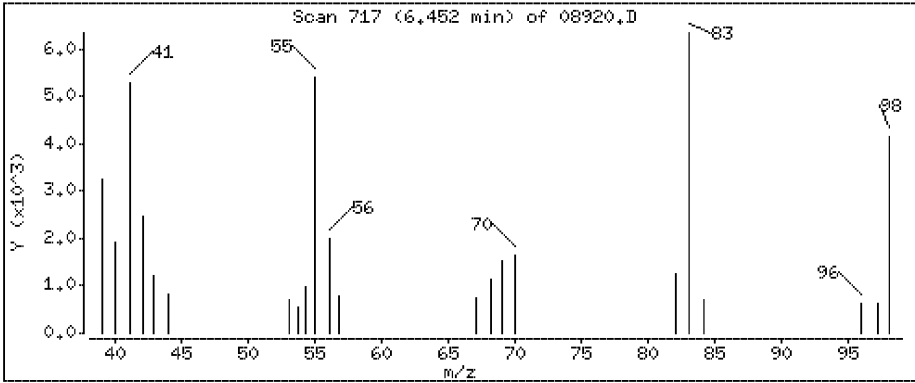
52 Bromodichloromethane

Concentration: 0.0167 ppbv



53 Methylcyclohexane

Concentration: 0.255 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

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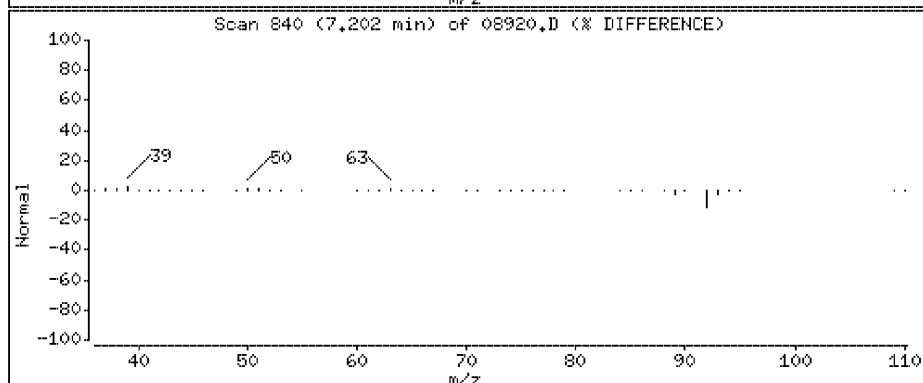
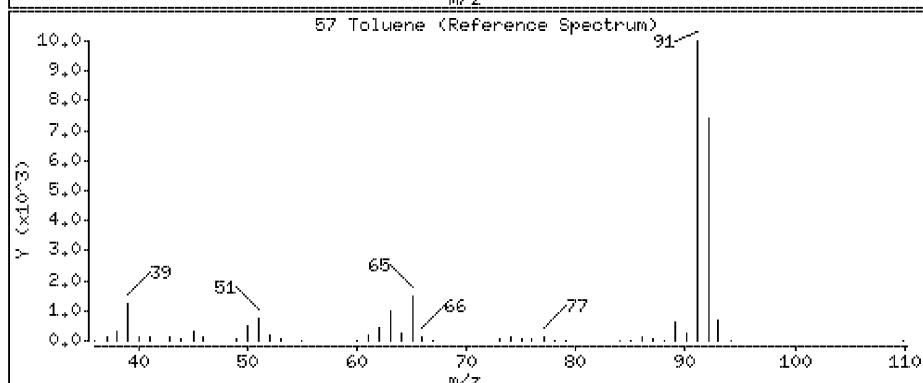
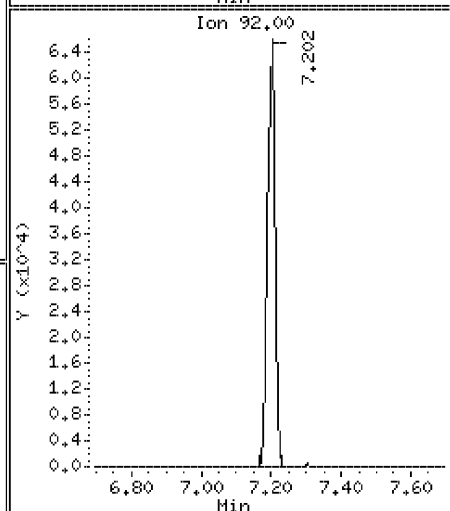
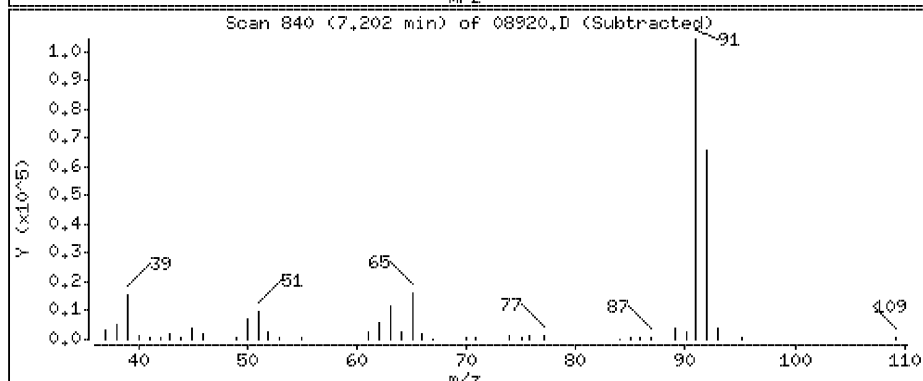
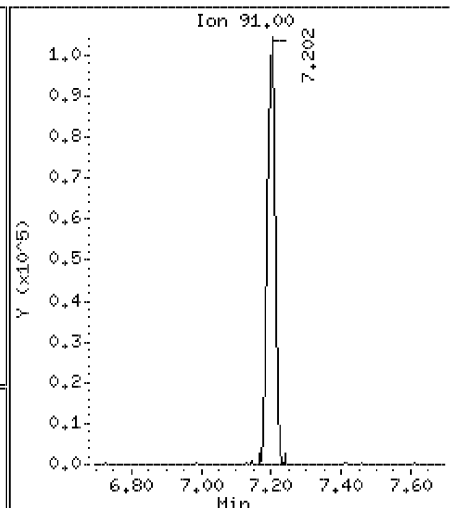
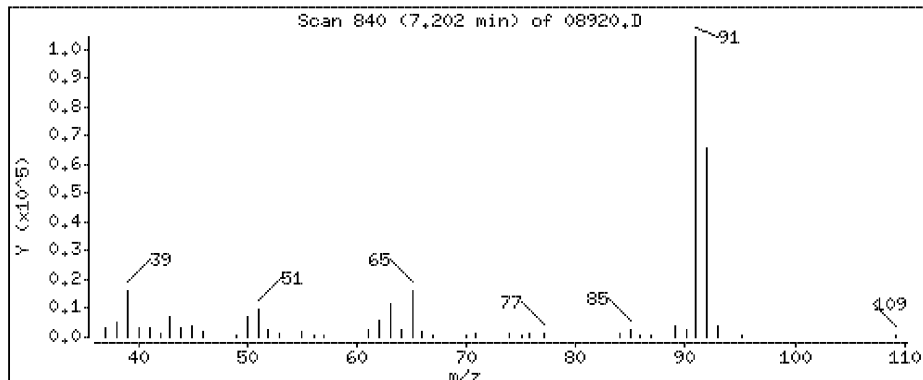
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

57 Toluene

Concentration: 1.70 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

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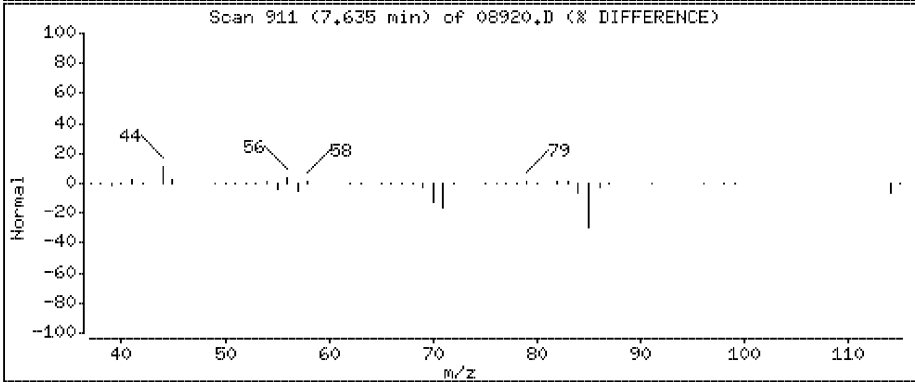
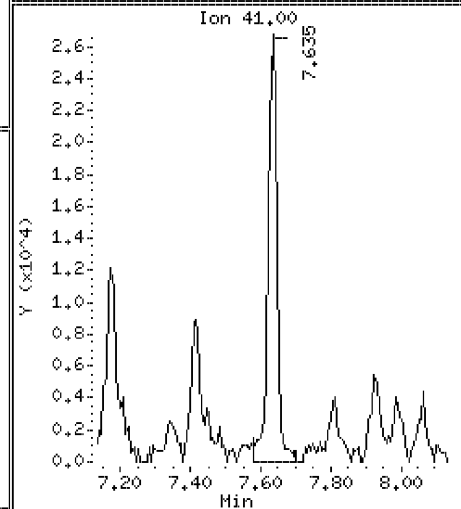
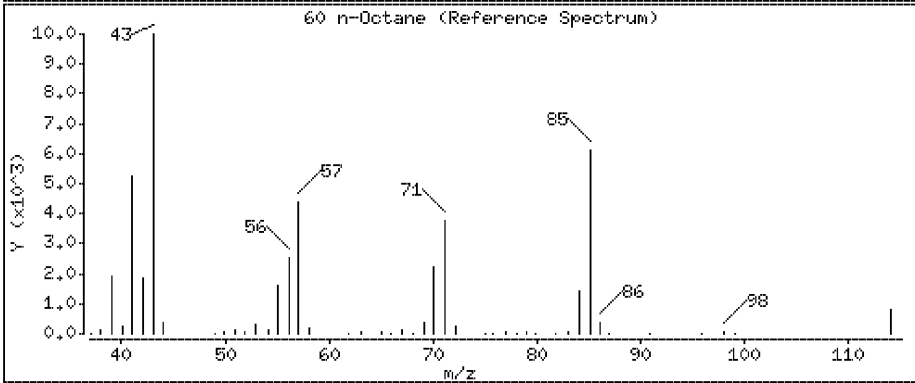
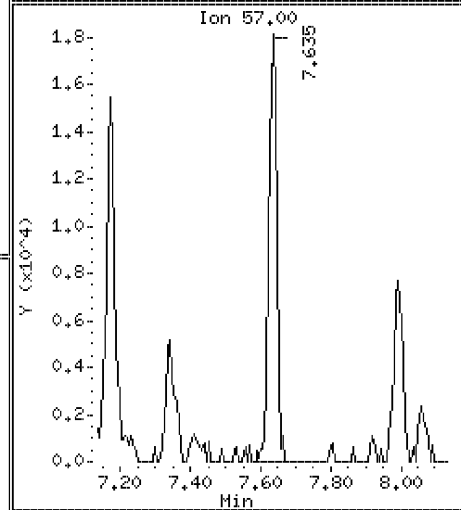
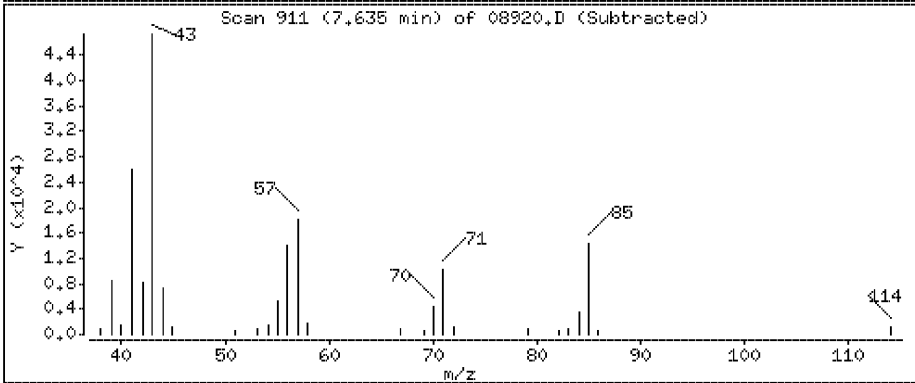
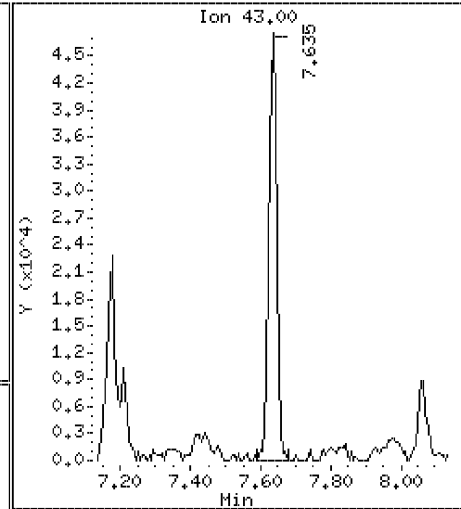
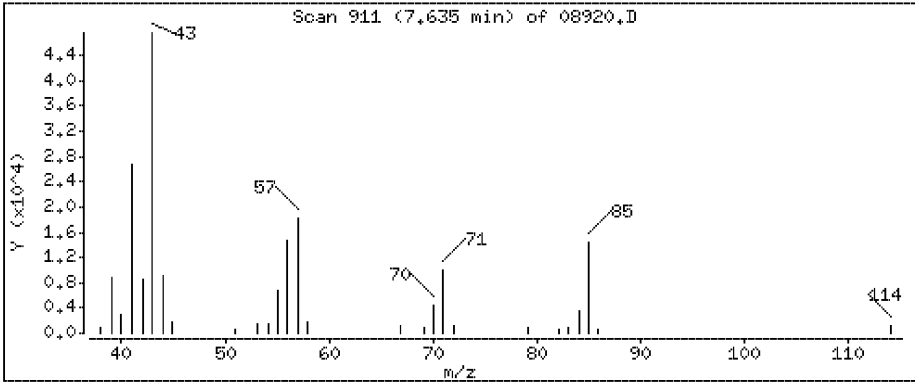
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

60 n-Octane

Concentration: 0.793 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

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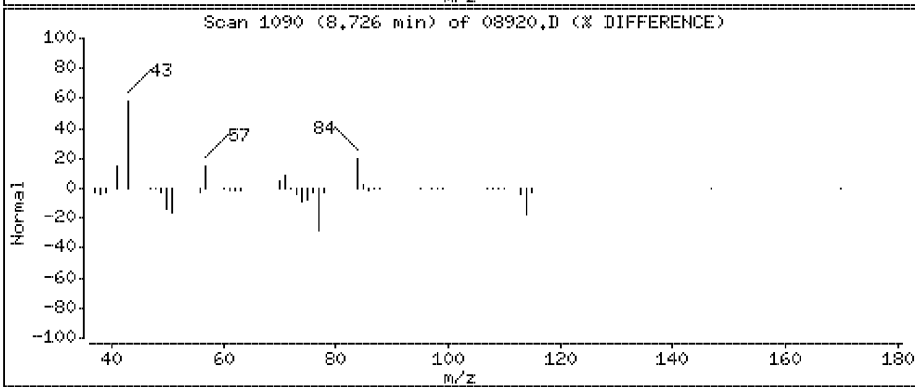
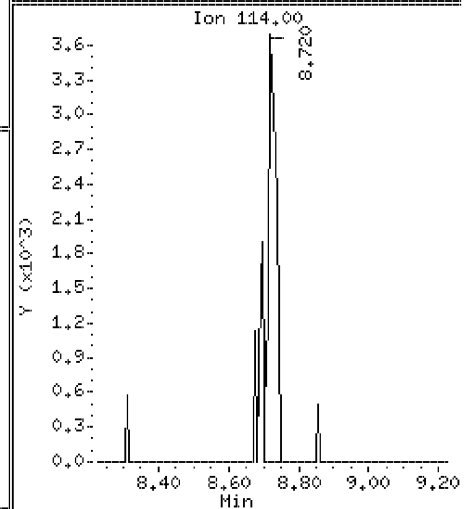
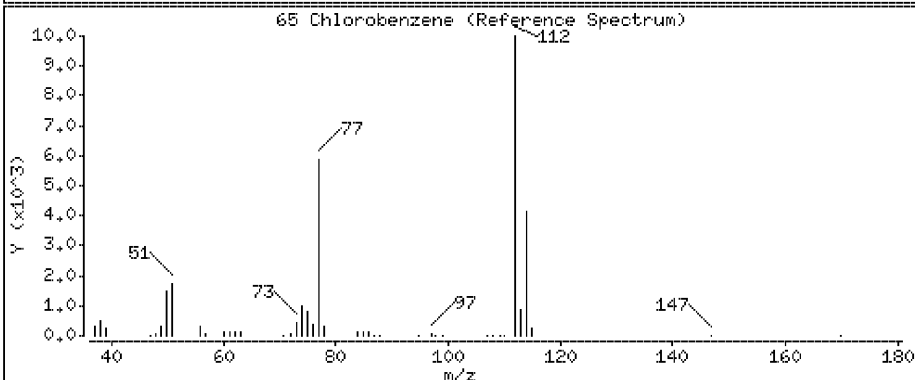
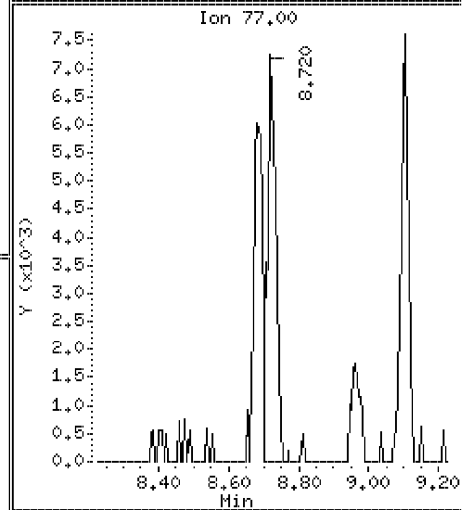
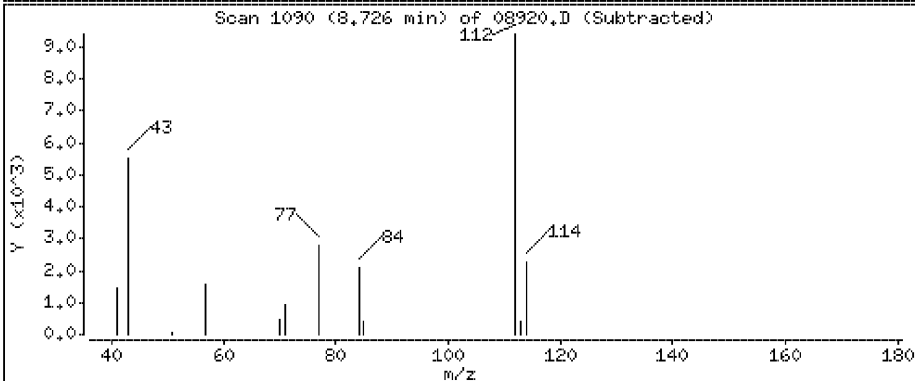
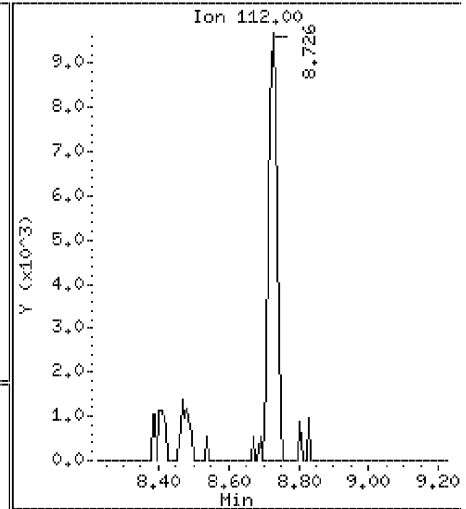
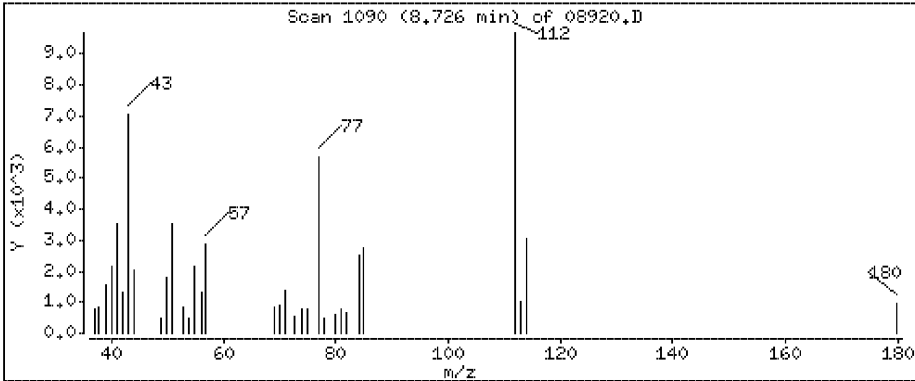
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

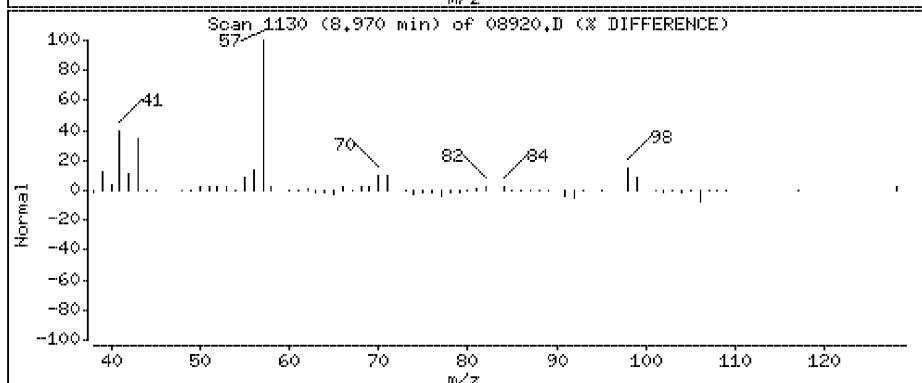
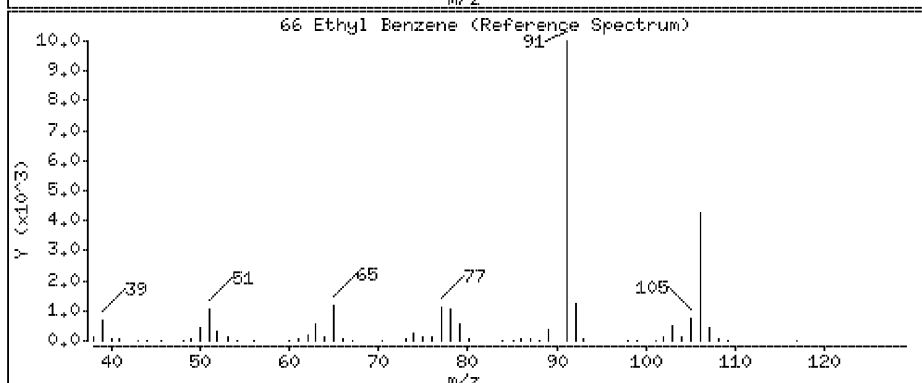
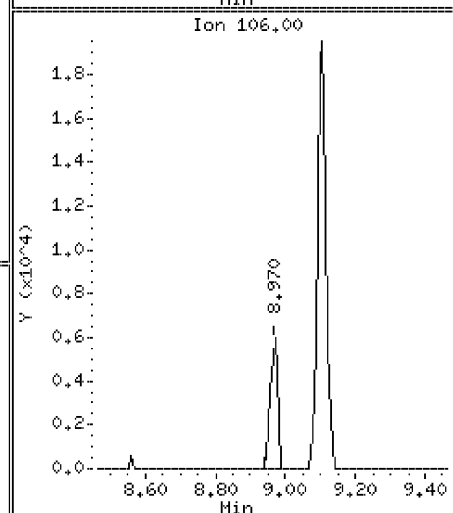
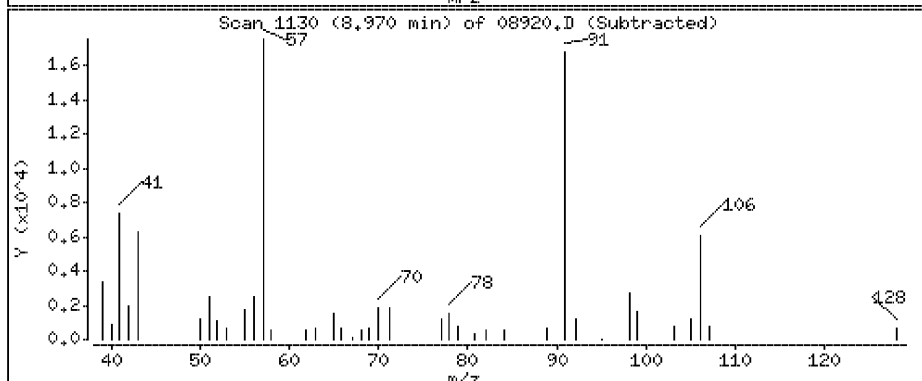
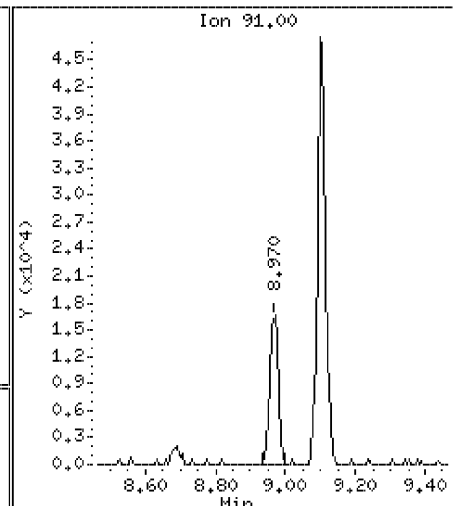
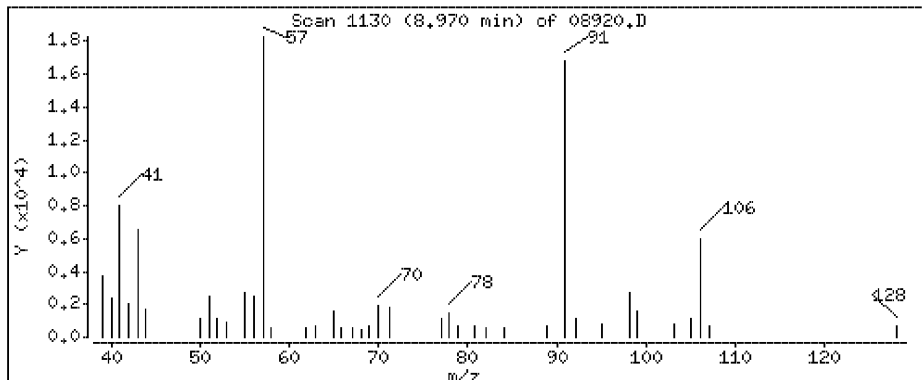
65 Chlorobenzene

Concentration: 0.231 ppbv



66 Ethyl Benzene

Concentration: 0.233 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

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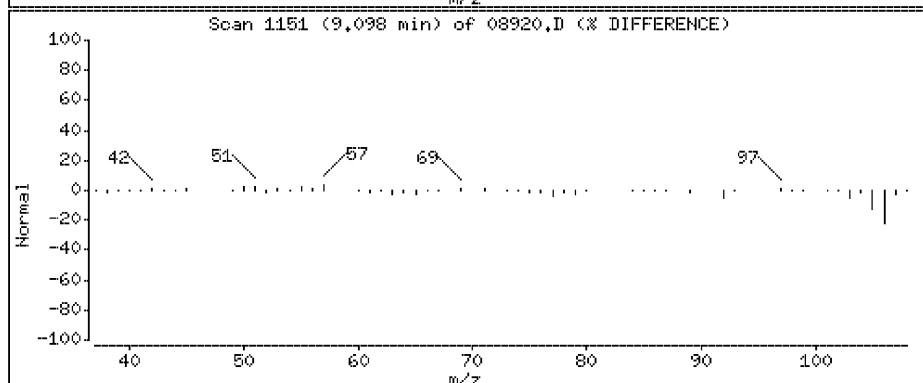
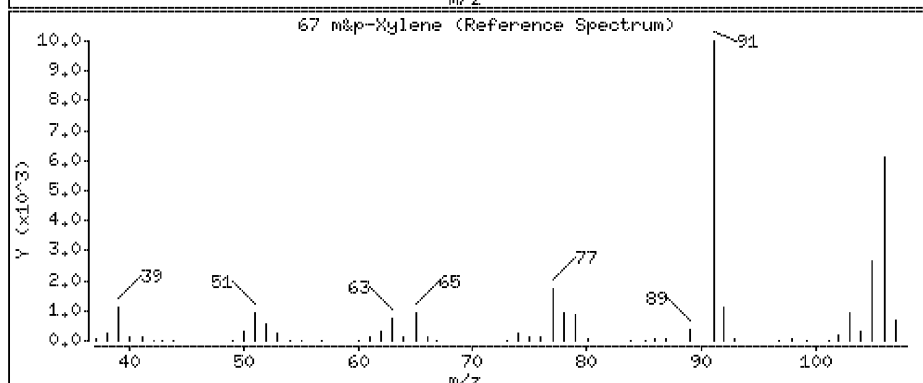
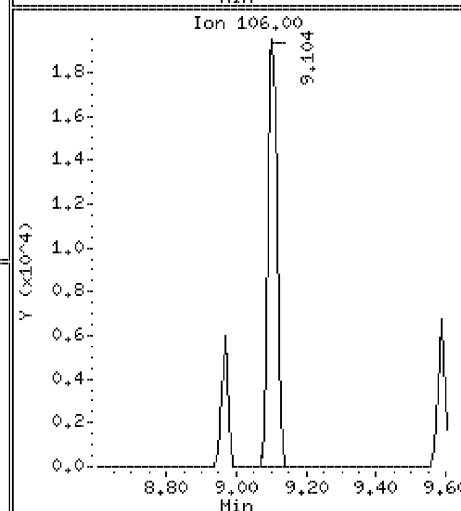
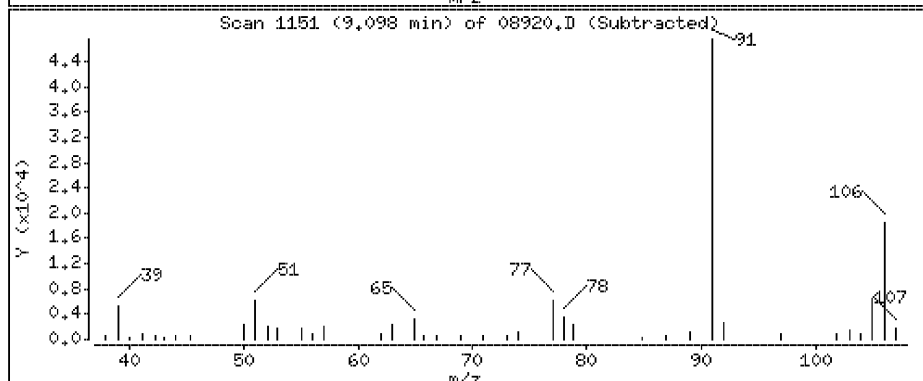
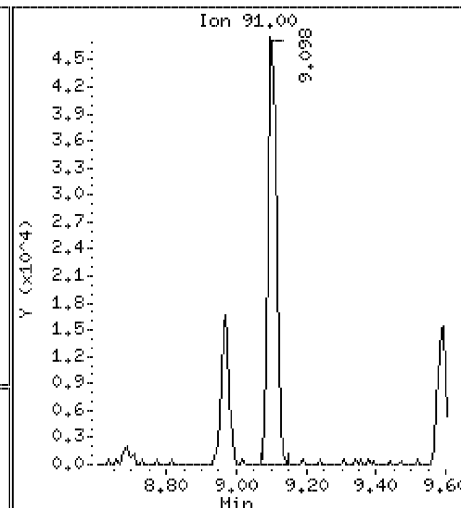
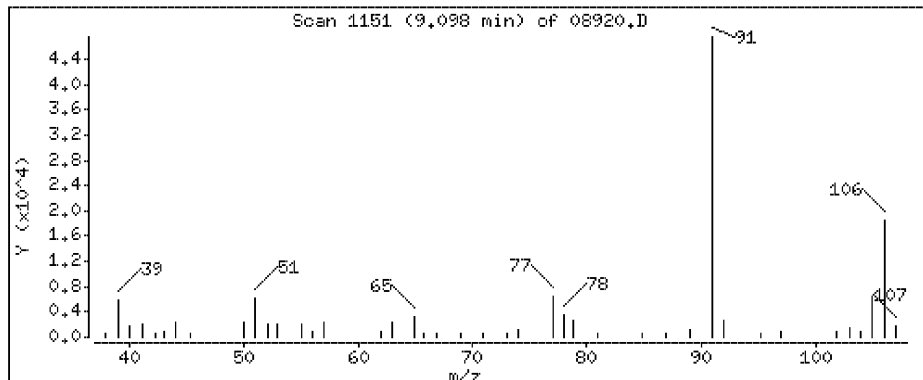
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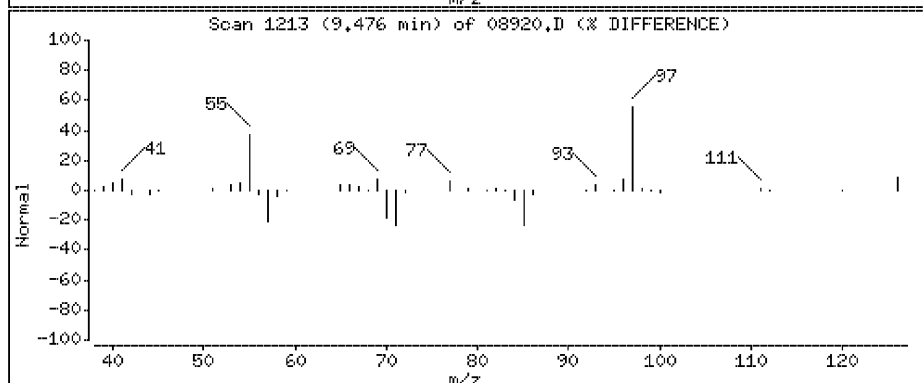
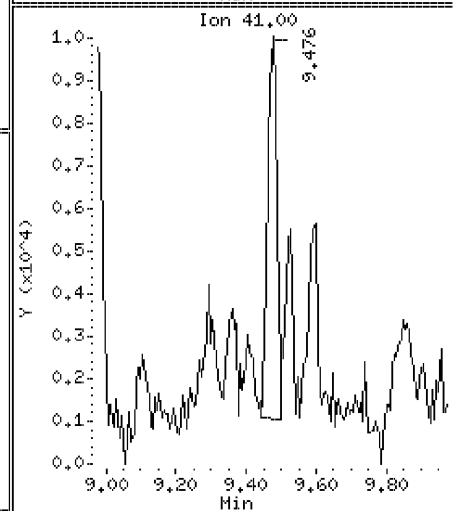
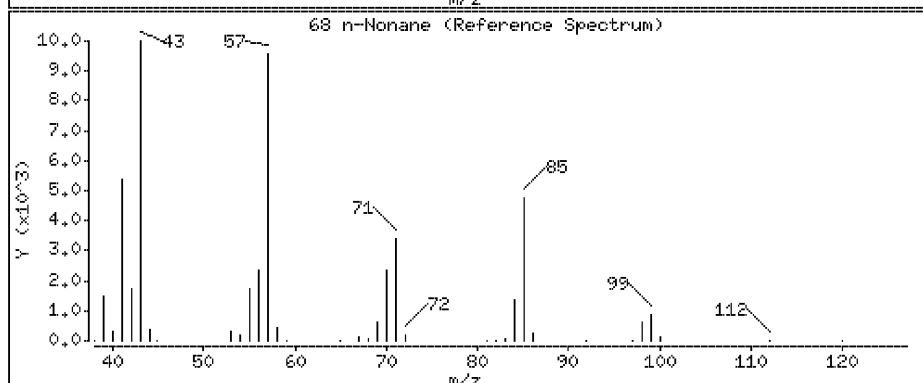
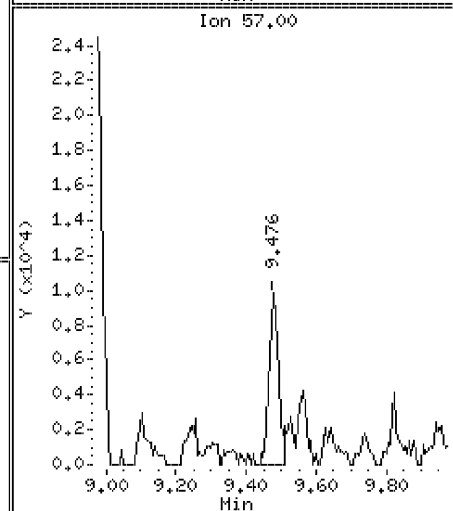
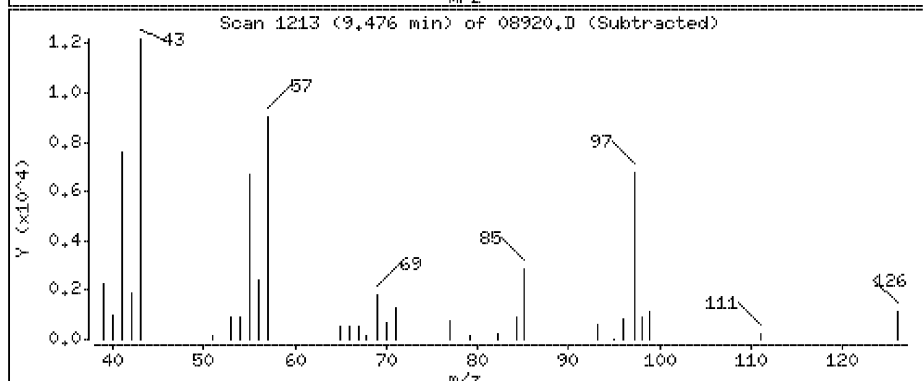
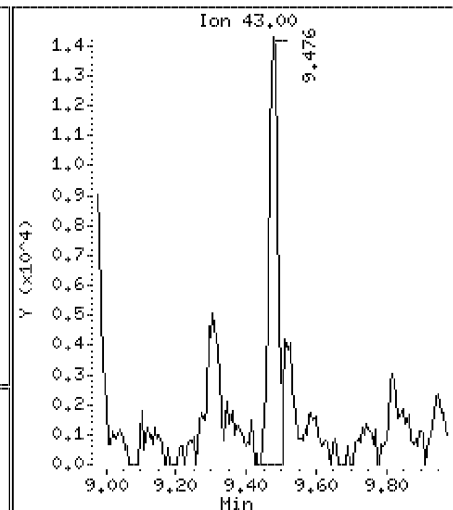
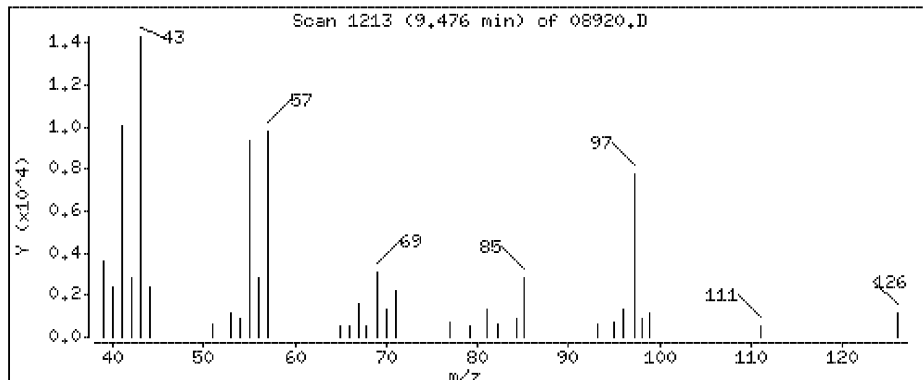
Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

67 m&p-Xylene

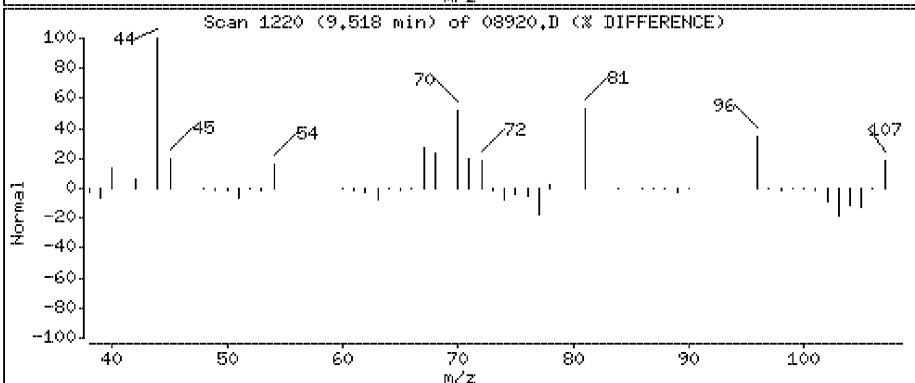
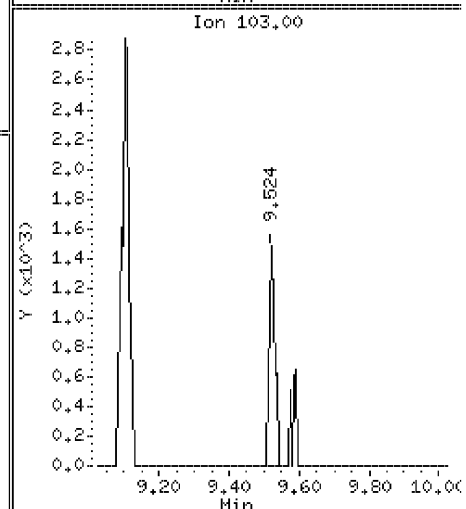
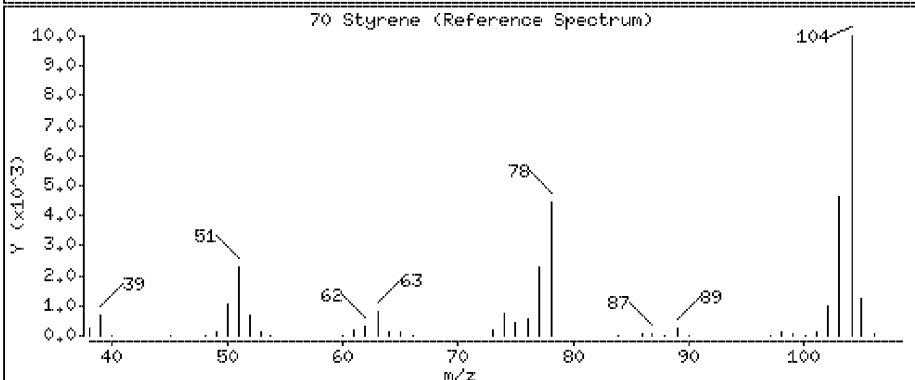
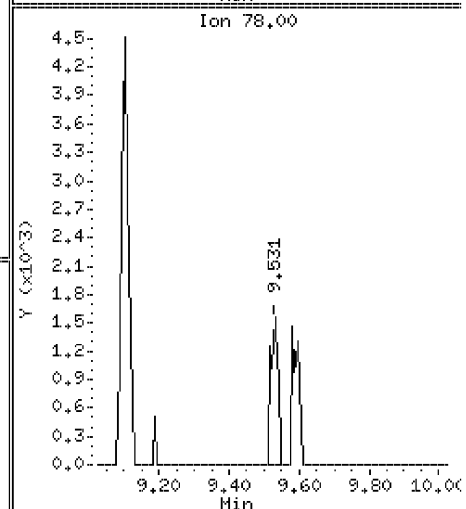
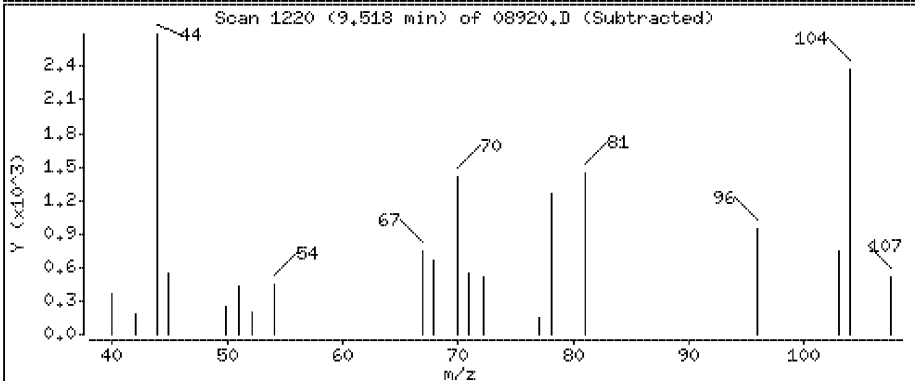
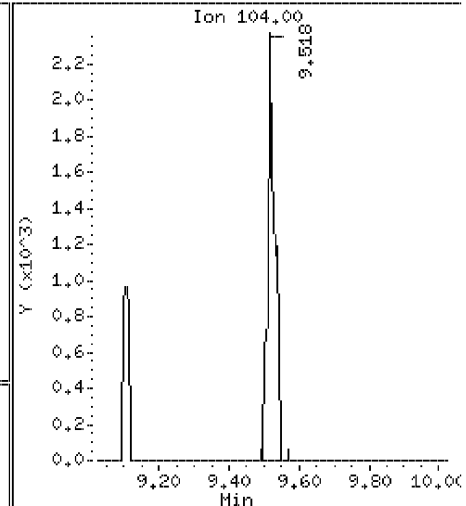
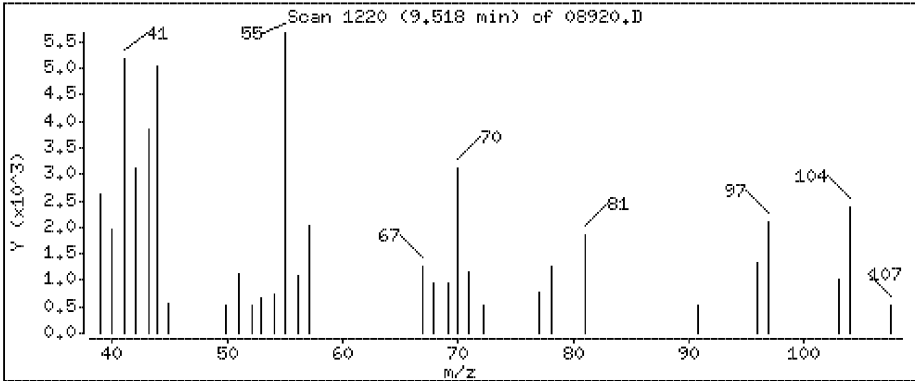
Concentration: 0.885 ppbv





70 Styrene

Concentration: 0.0529 ppbv



Data File: \\192.168.10.12\chem\10airI.i\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

Sample Info:

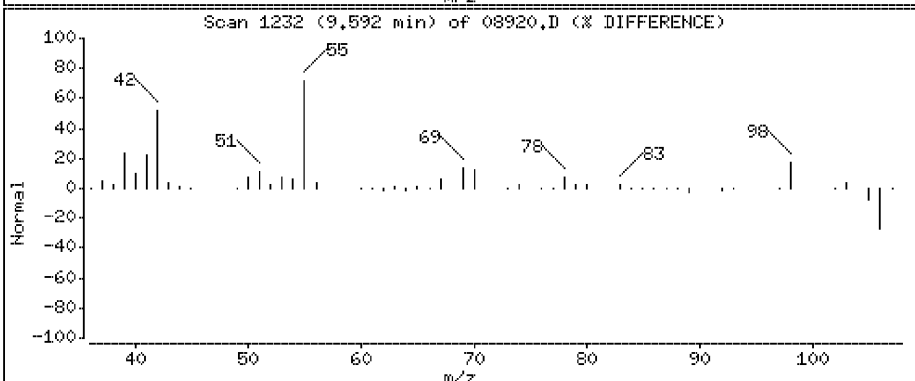
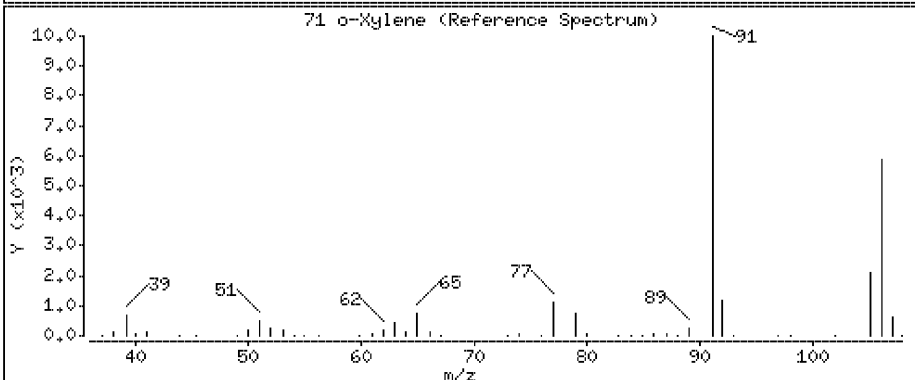
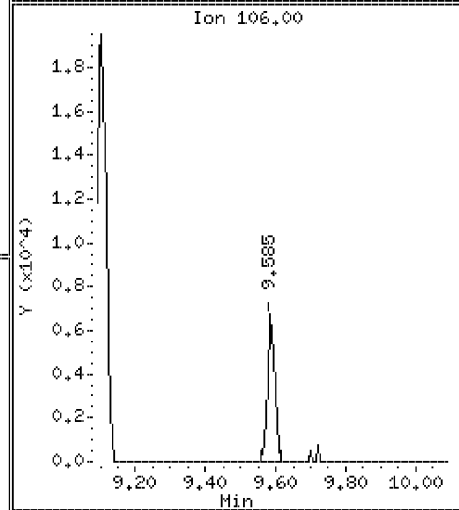
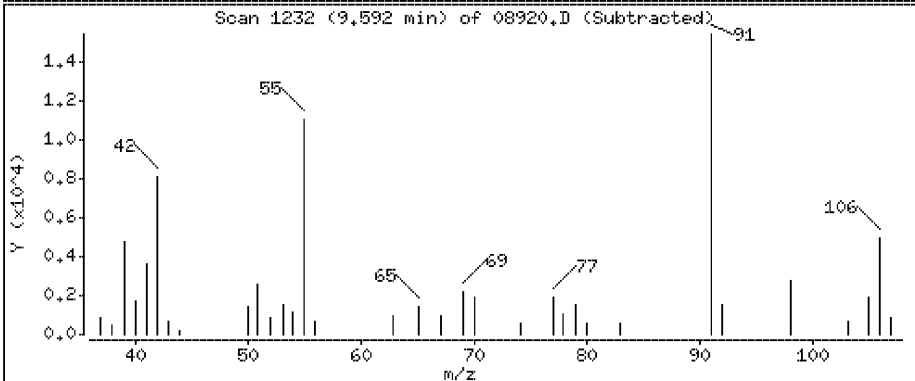
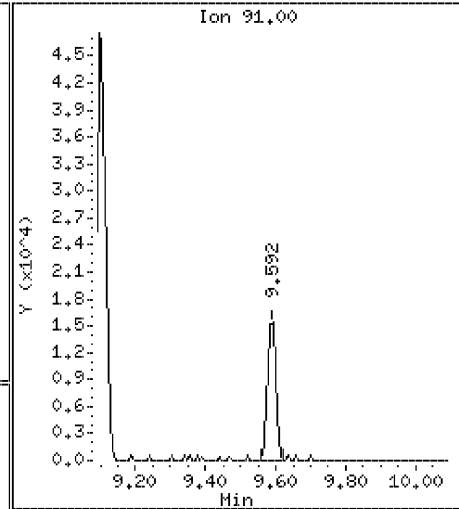
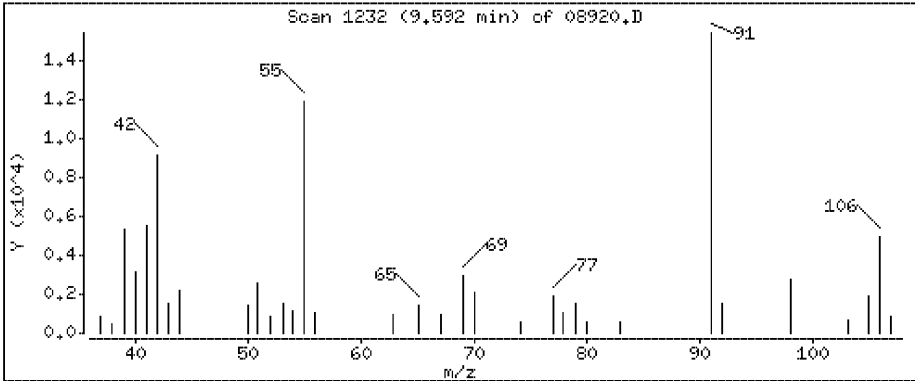
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

71 o-Xylene

Concentration: 0.271 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

Sample Info:

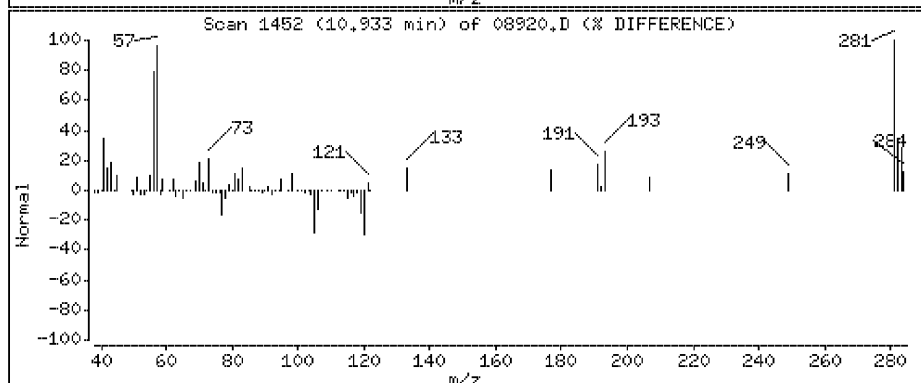
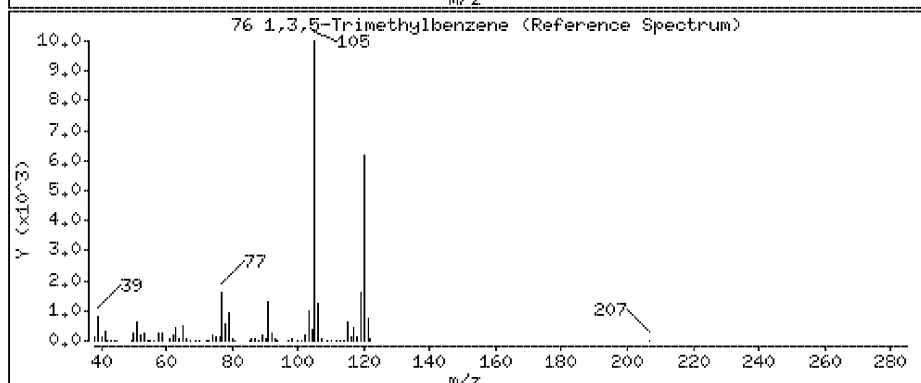
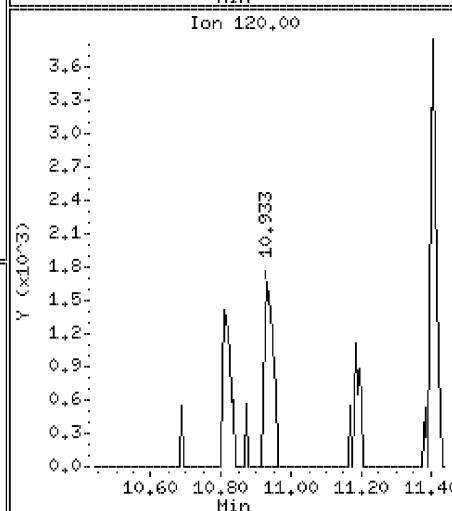
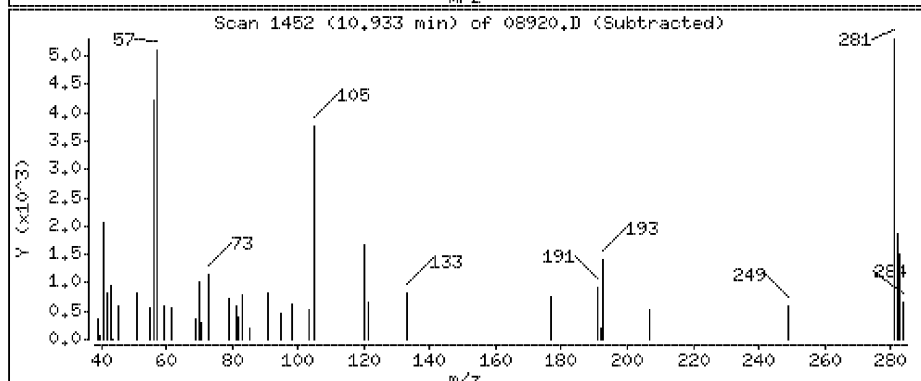
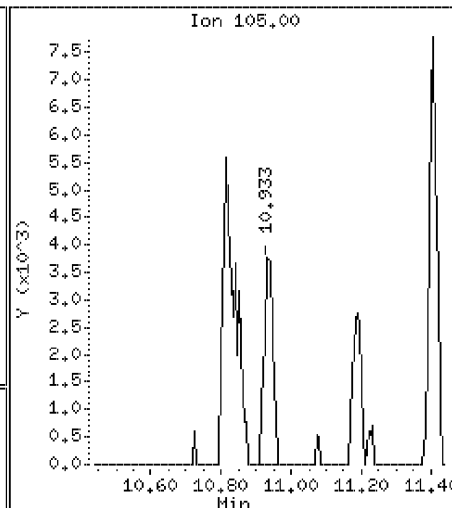
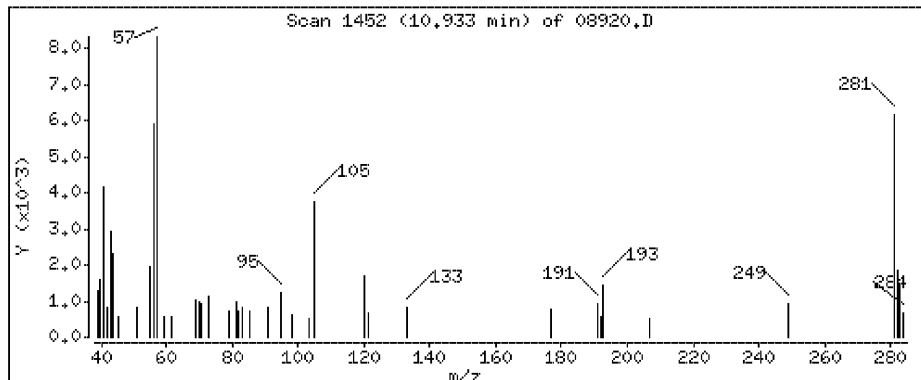
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

76 1,3,5-Trimethylbenzene

Concentration: 0.0641 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

Sample Info:

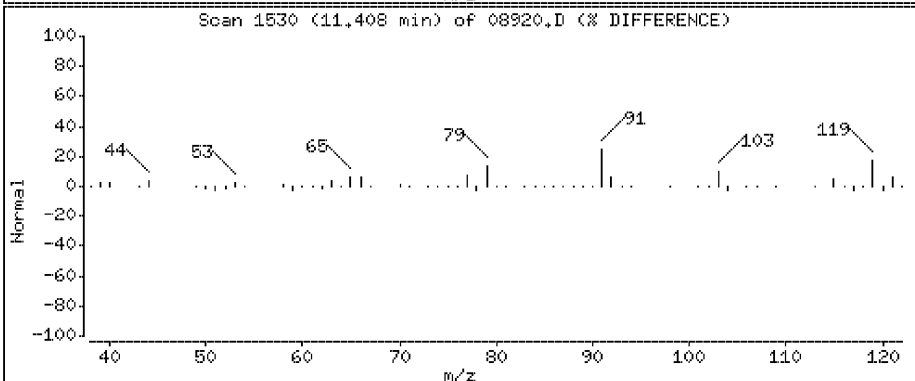
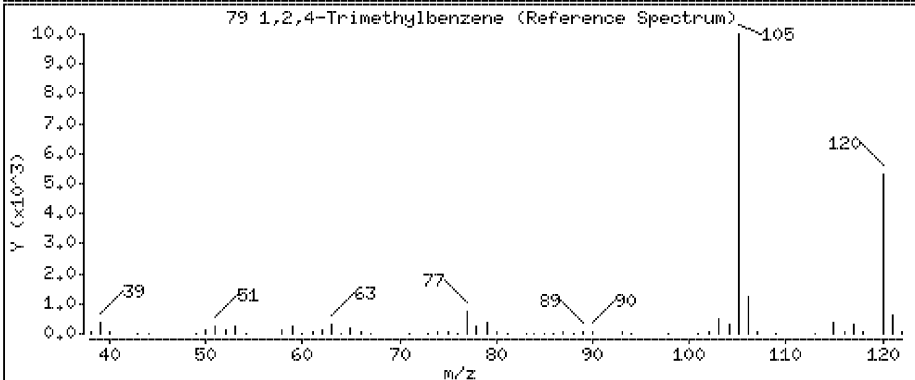
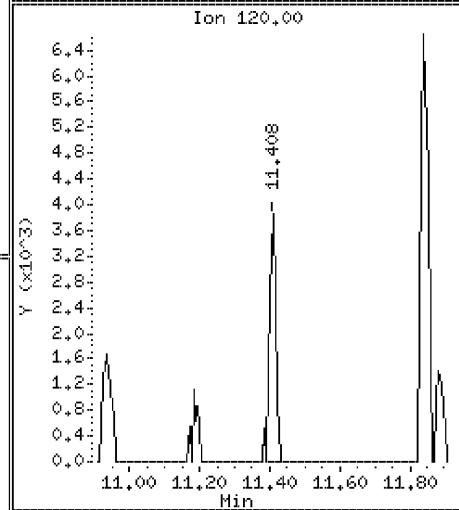
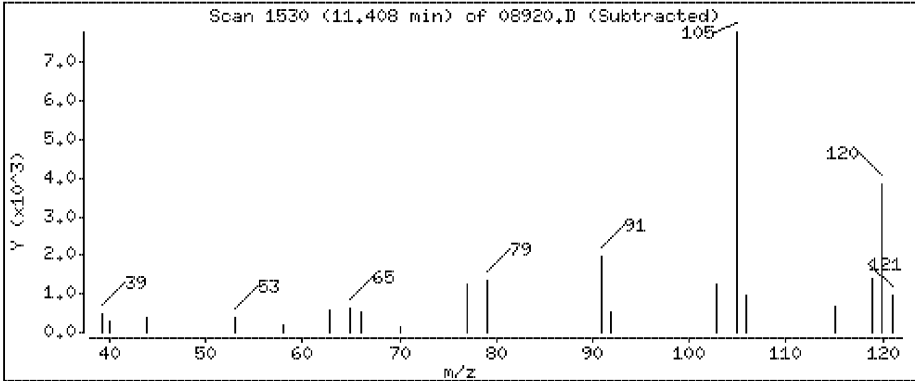
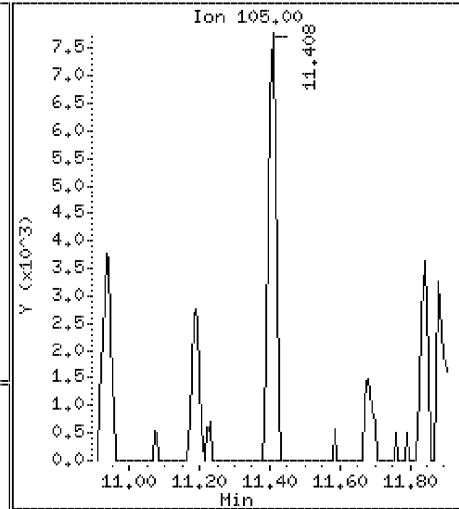
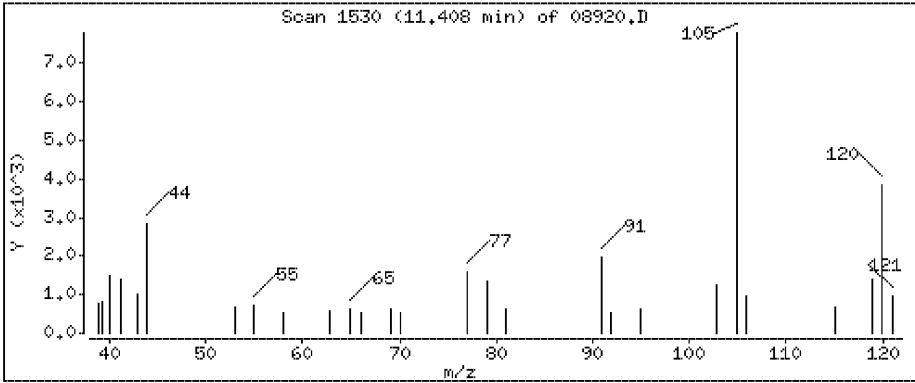
Operator: MJL

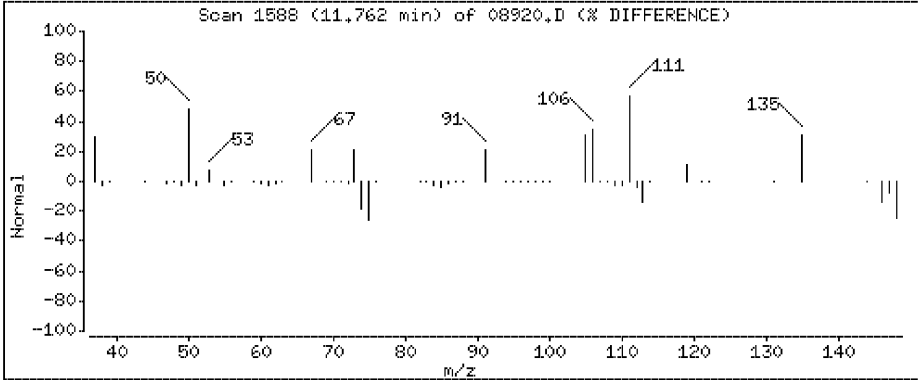
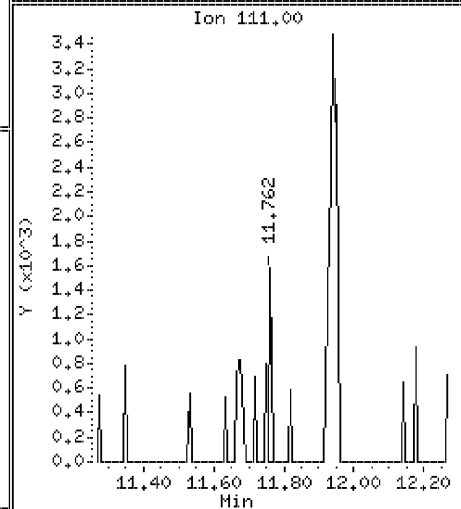
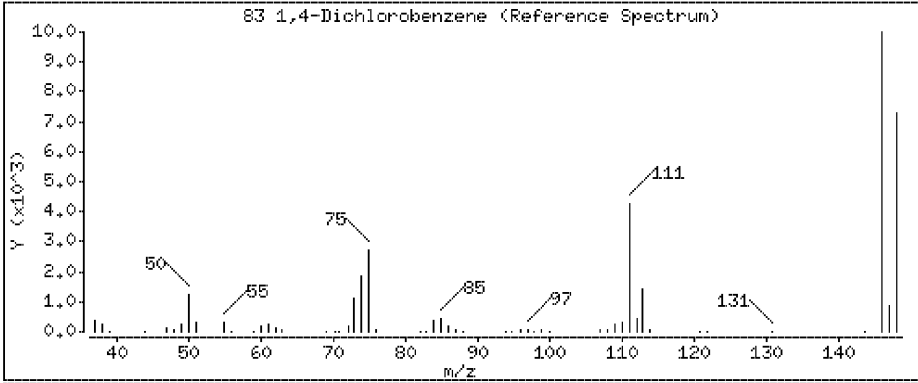
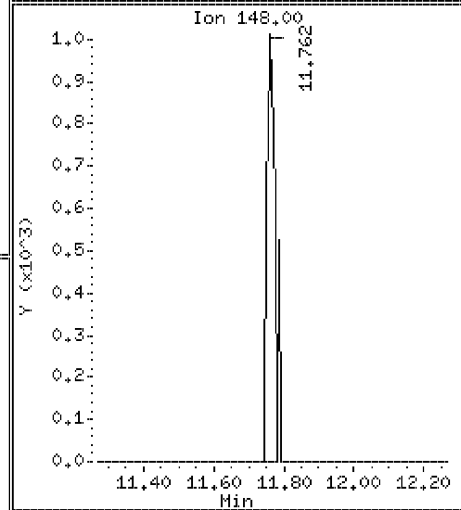
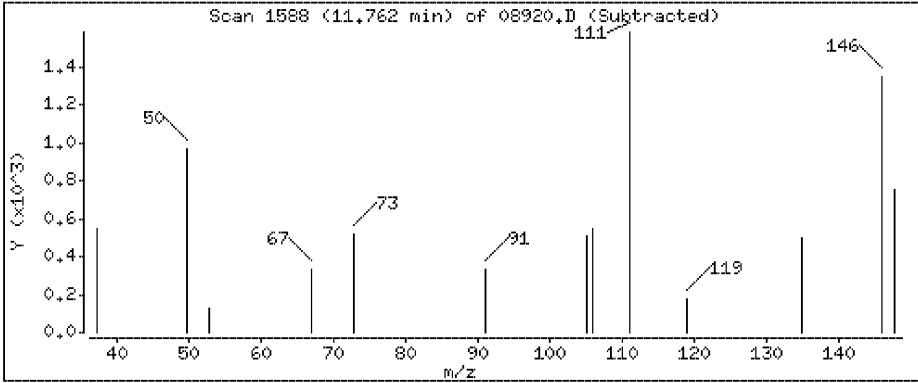
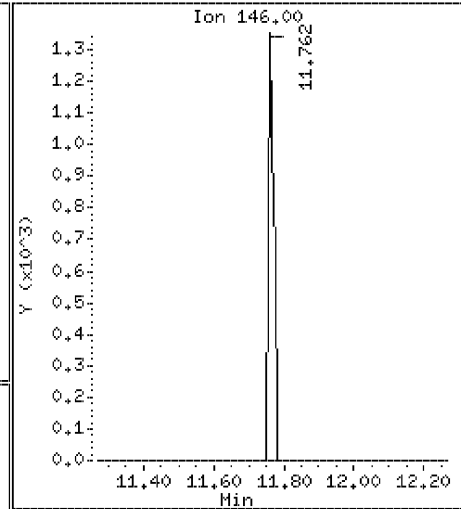
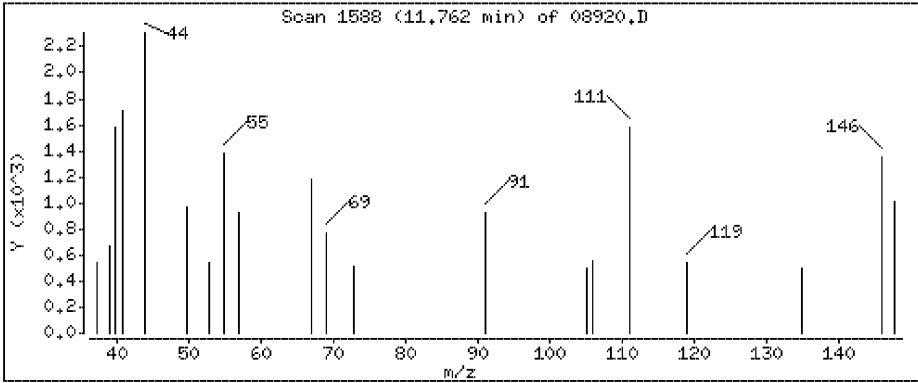
Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

79 1,2,4-Trimethylbenzene

Concentration: 0.118 ppbv





Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

Sample Info:

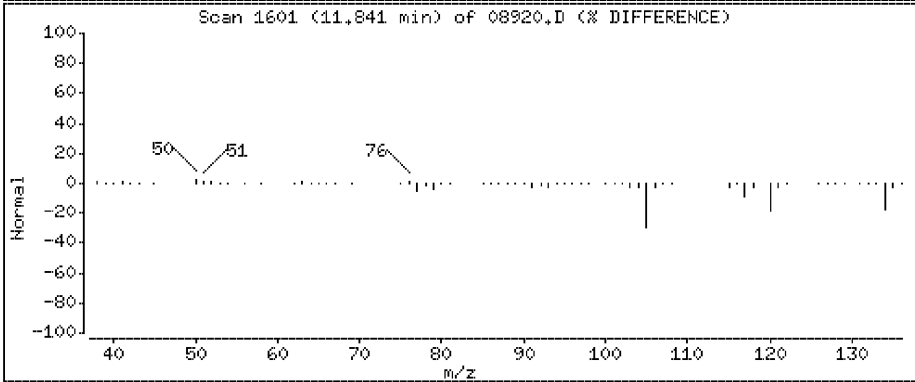
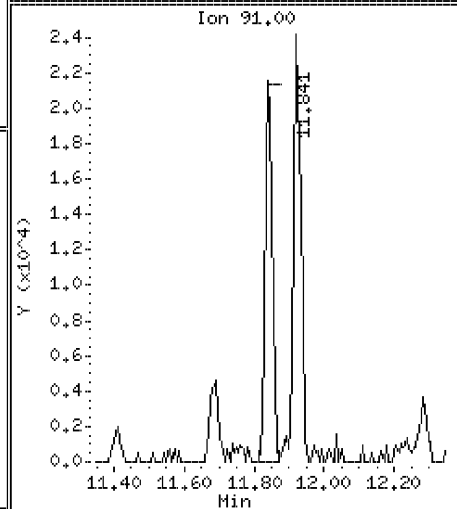
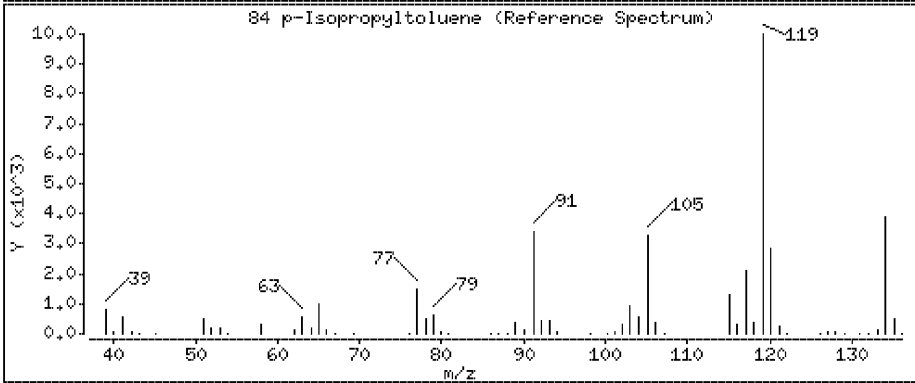
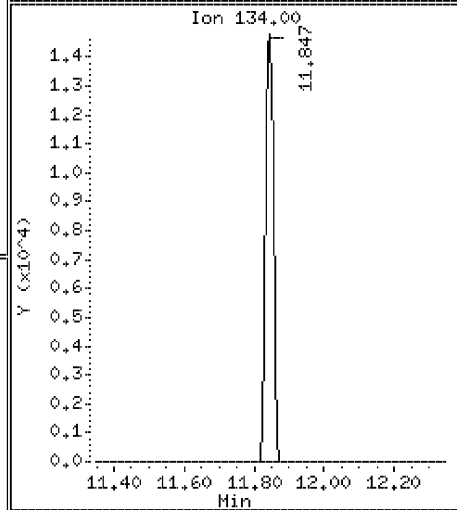
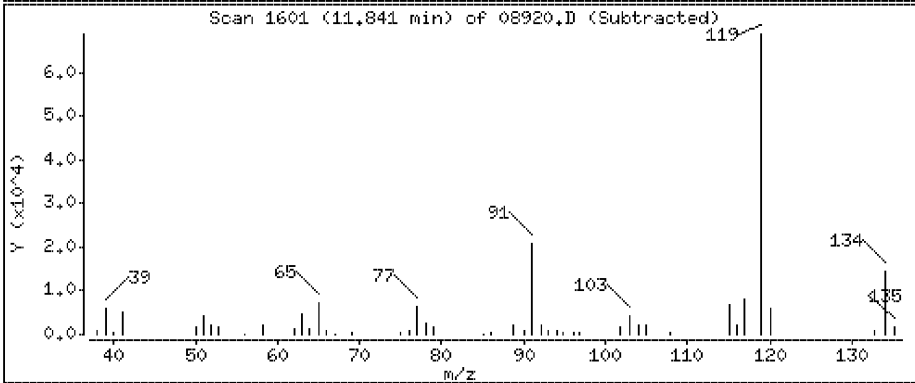
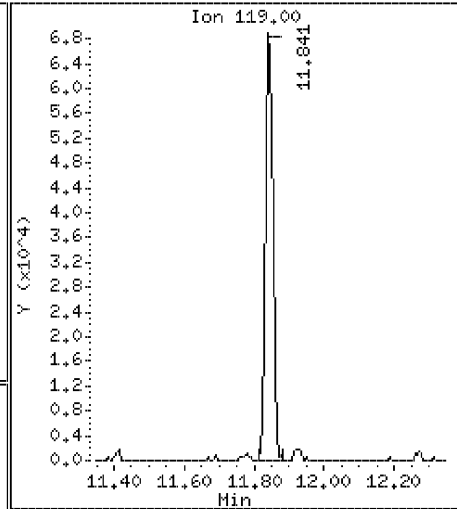
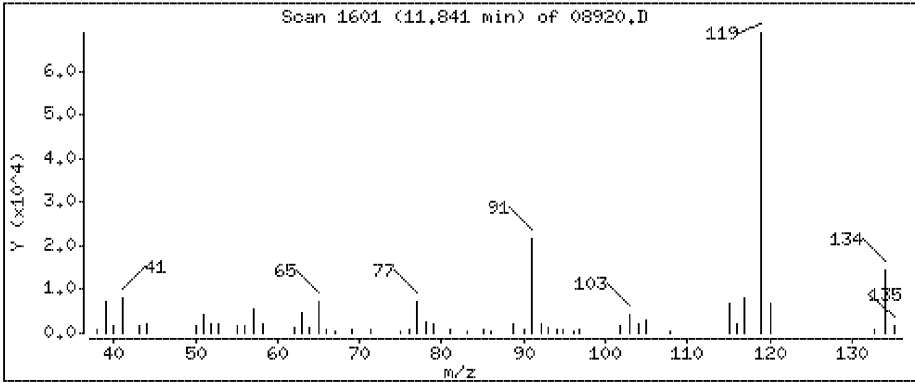
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

84 p-Isopropyltoluene

Concentration: 0.914 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

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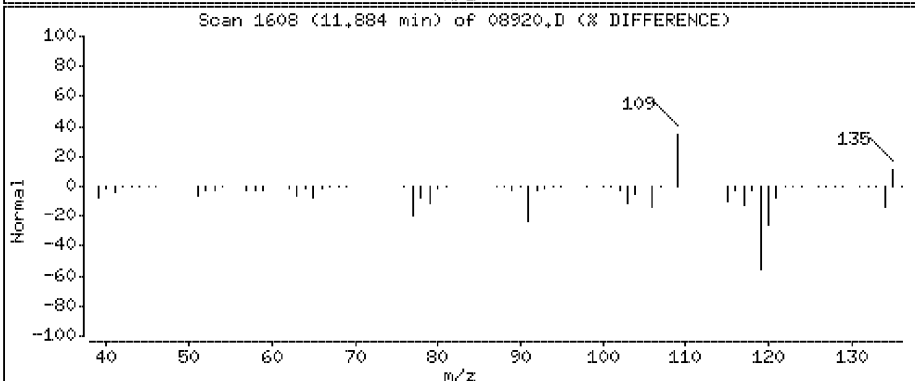
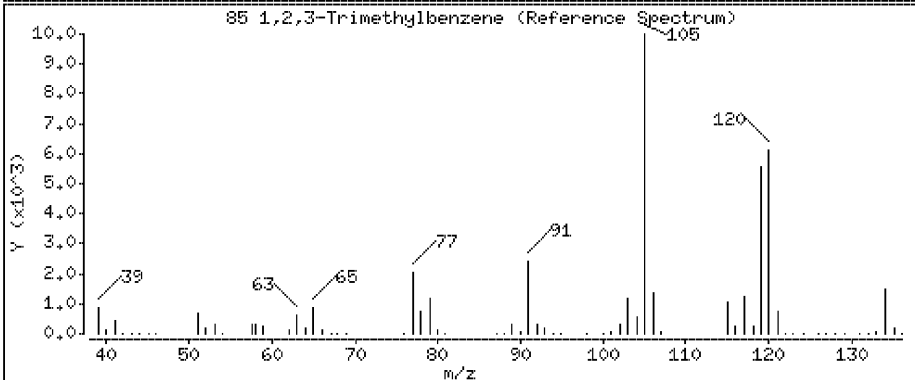
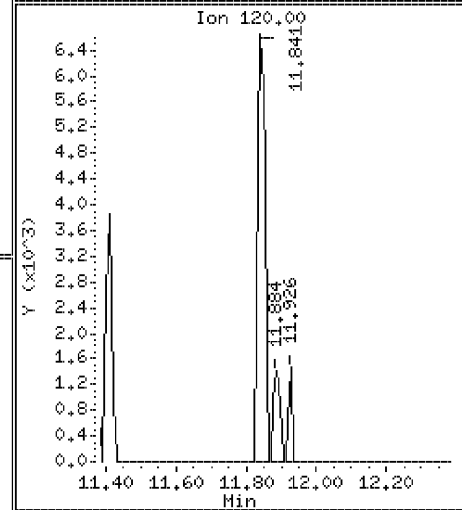
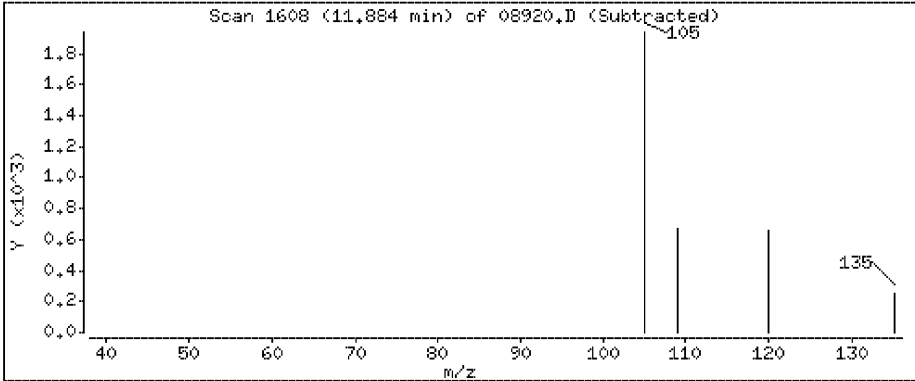
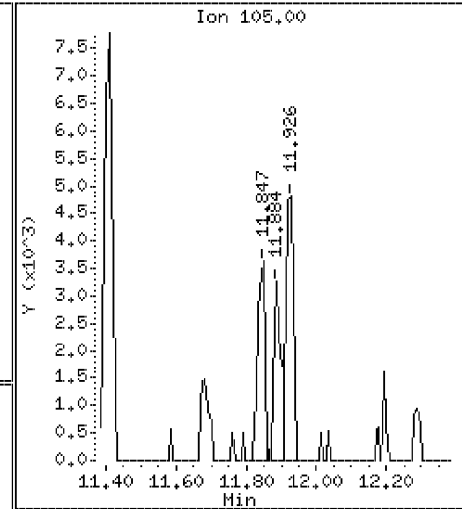
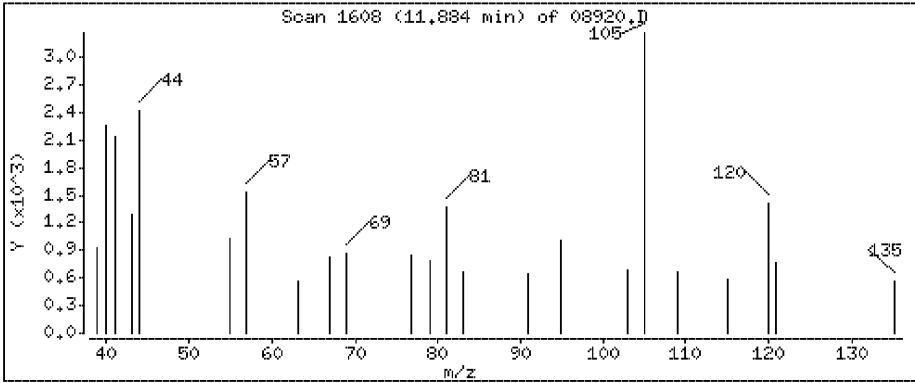
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

85 1,2,3-Trimethylbenzene

Concentration: 0.0483 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

Sample Info:

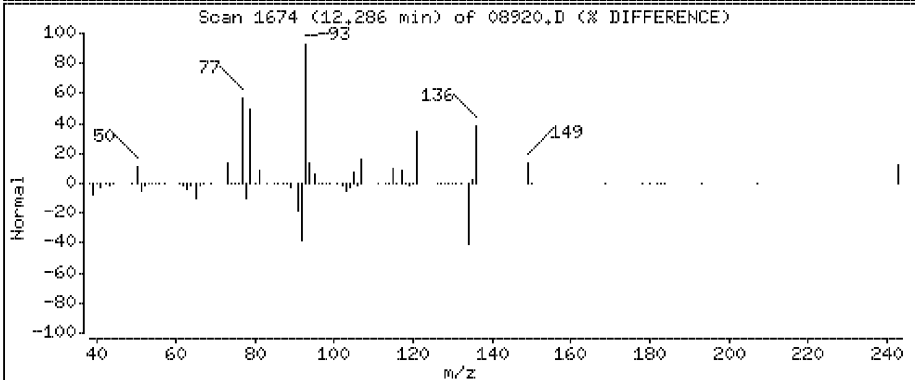
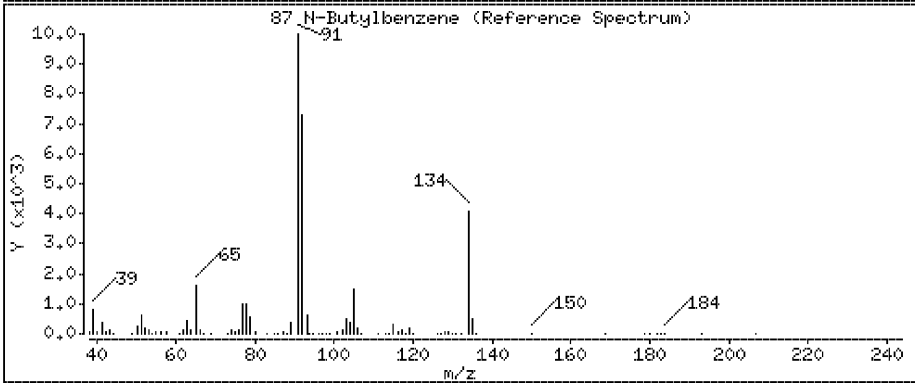
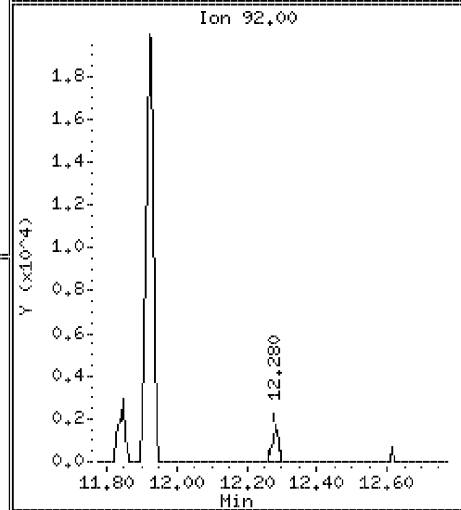
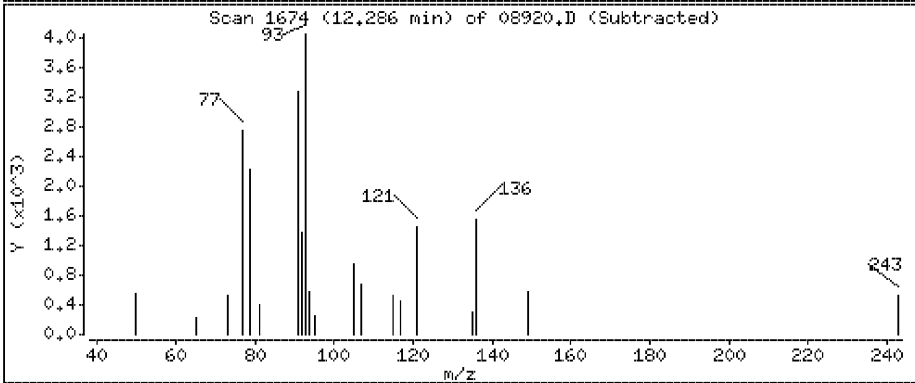
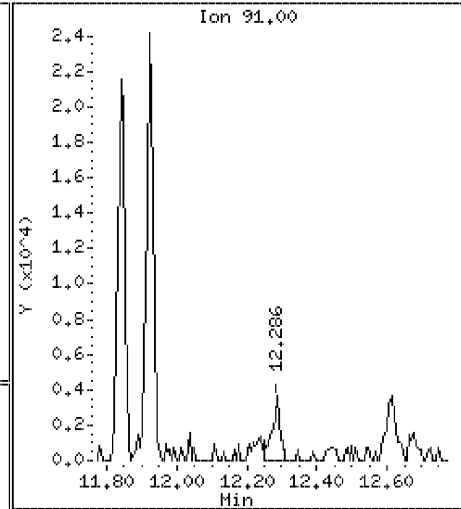
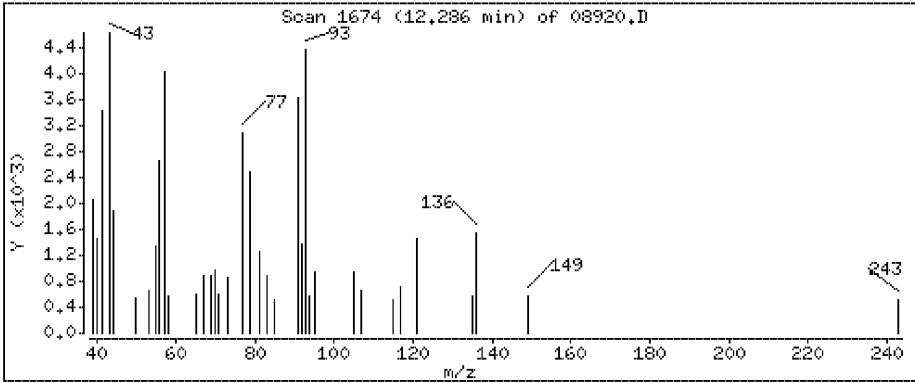
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

87 N-Butylbenzene

Concentration: 0.0558 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08920.D

Date : 30-MAR-2019 15:48

Client ID:

Instrument: 10airI.i

Sample Info:

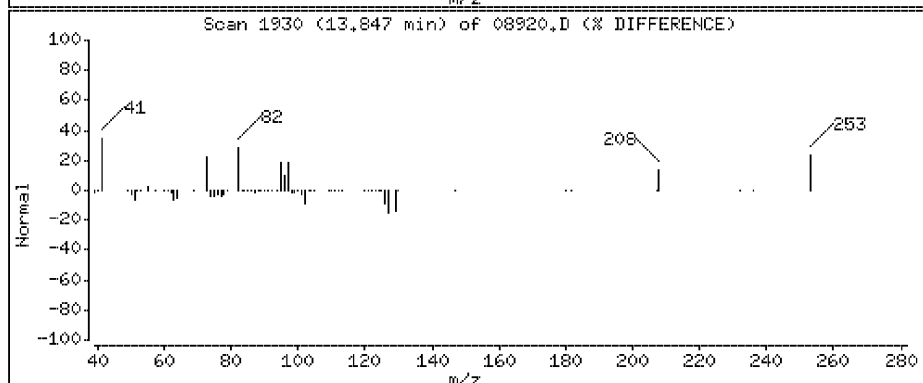
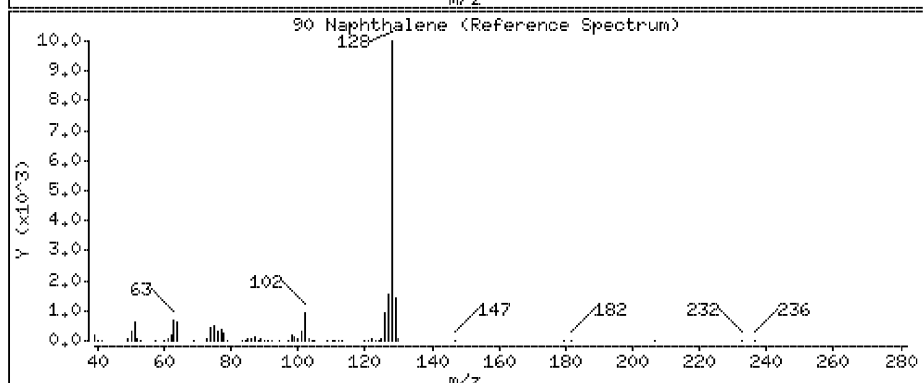
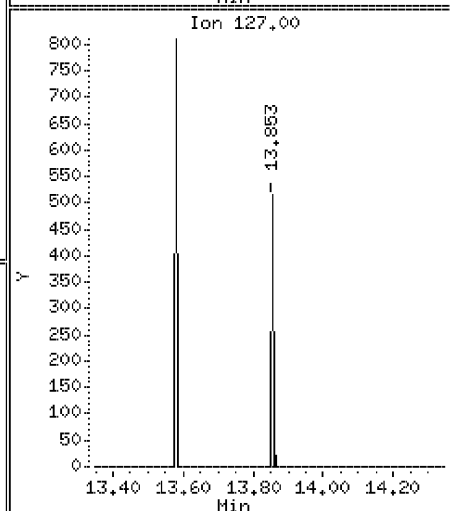
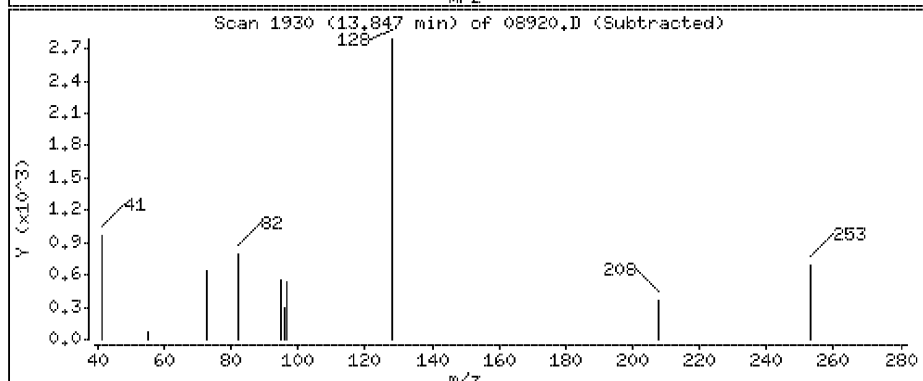
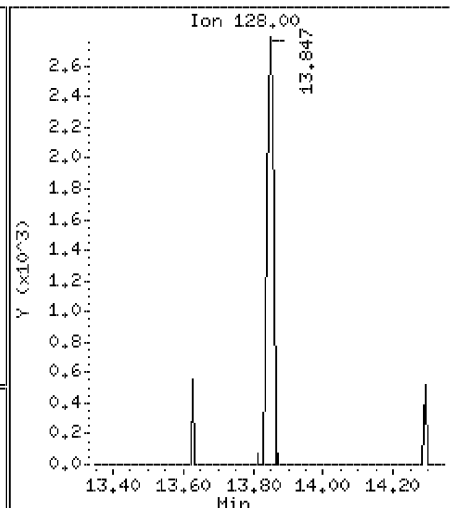
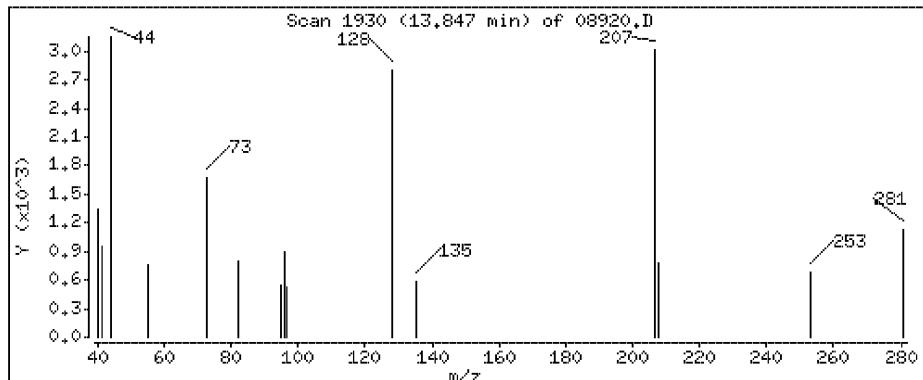
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

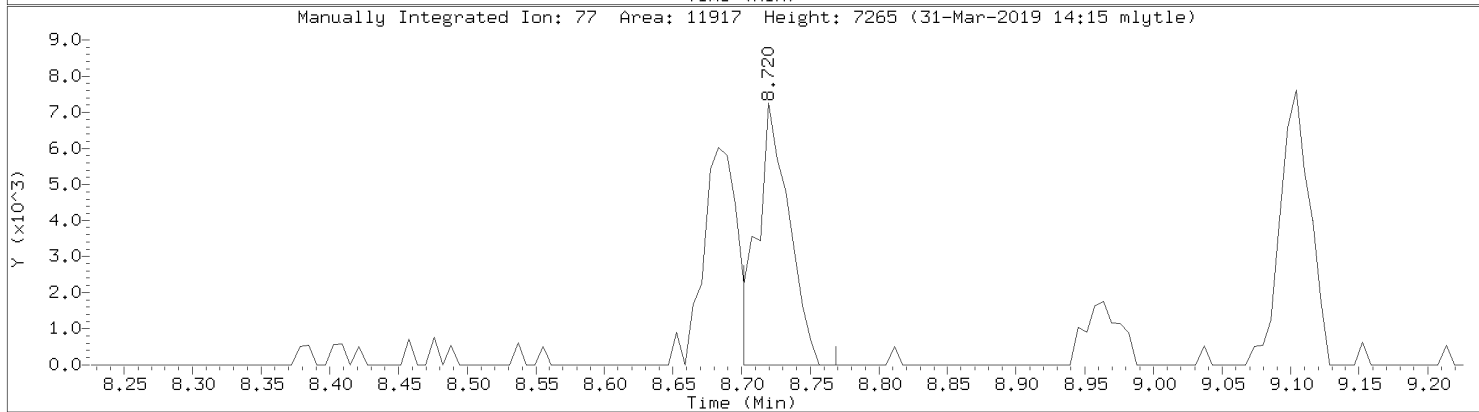
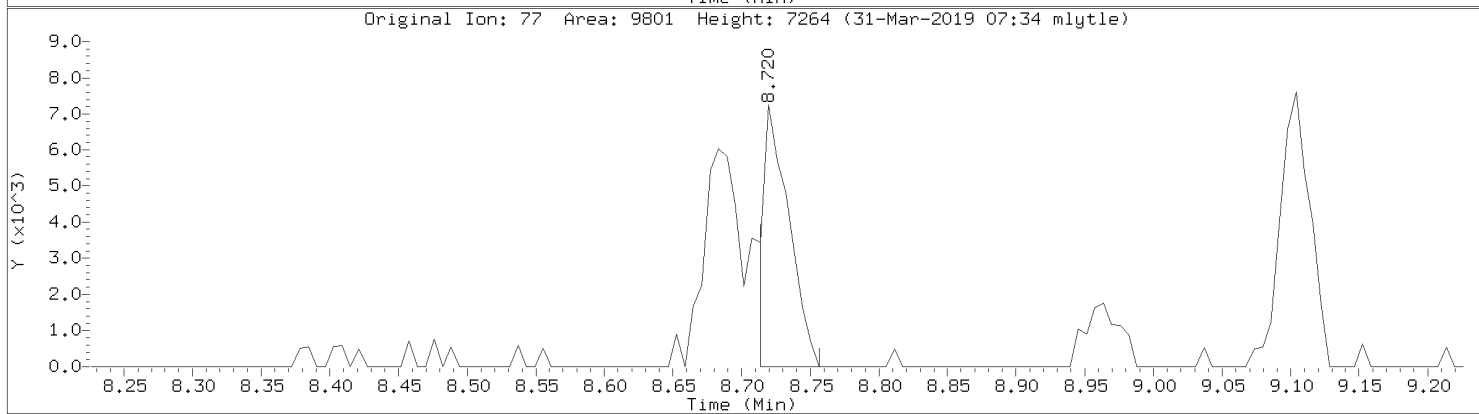
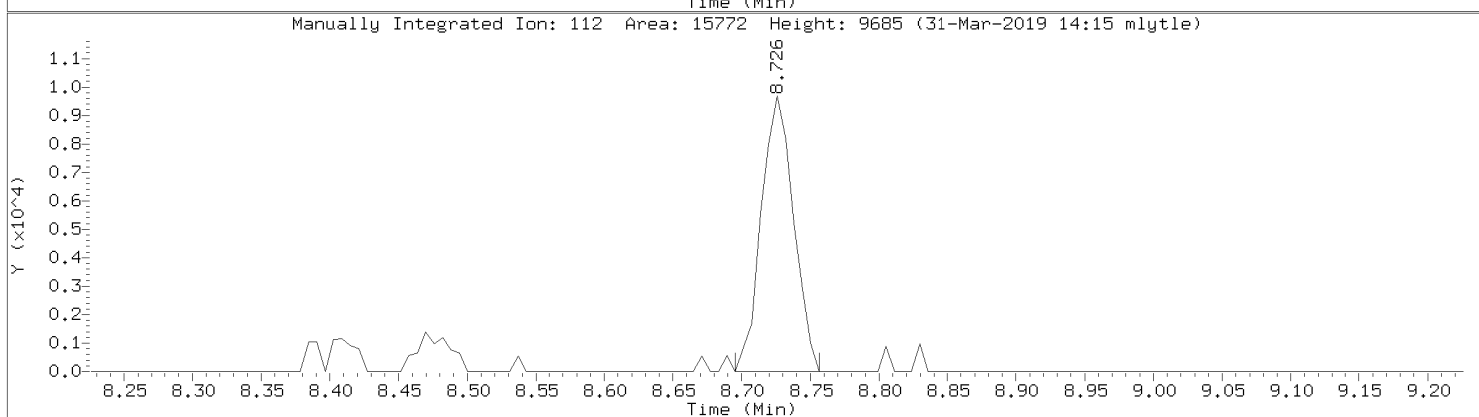
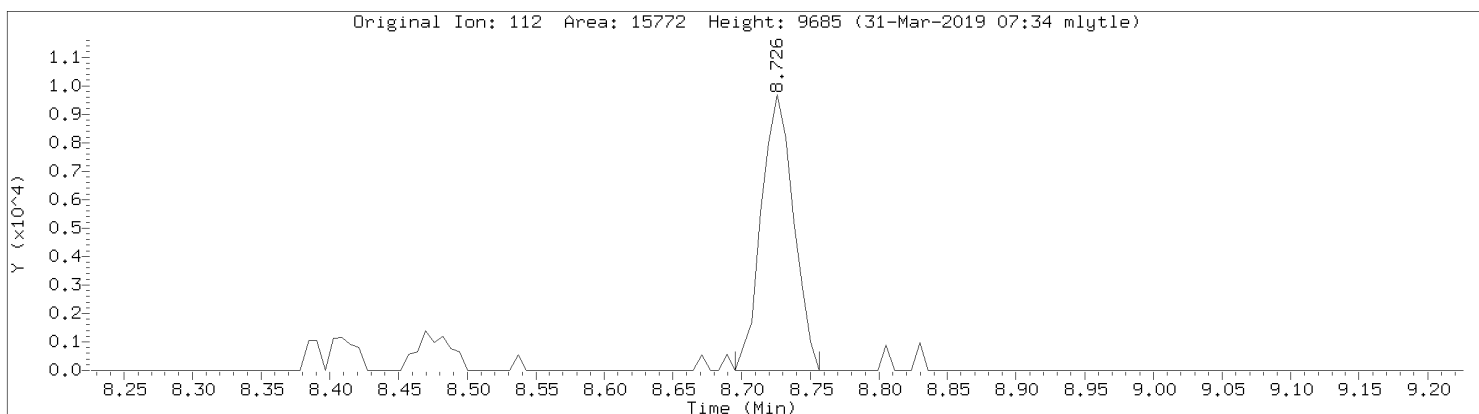
90 Naphthalene

Concentration: 0.0468 ppbv

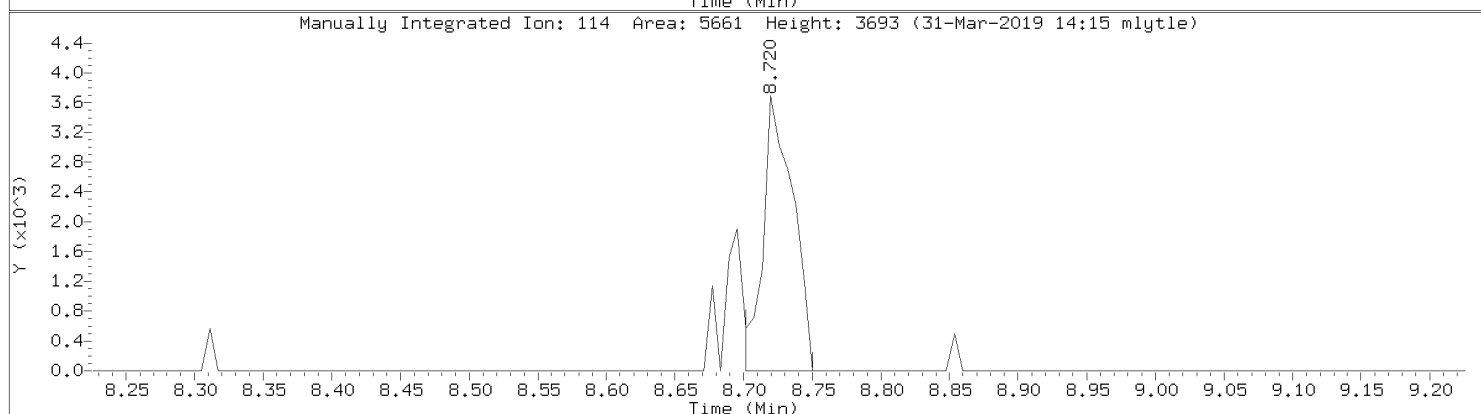
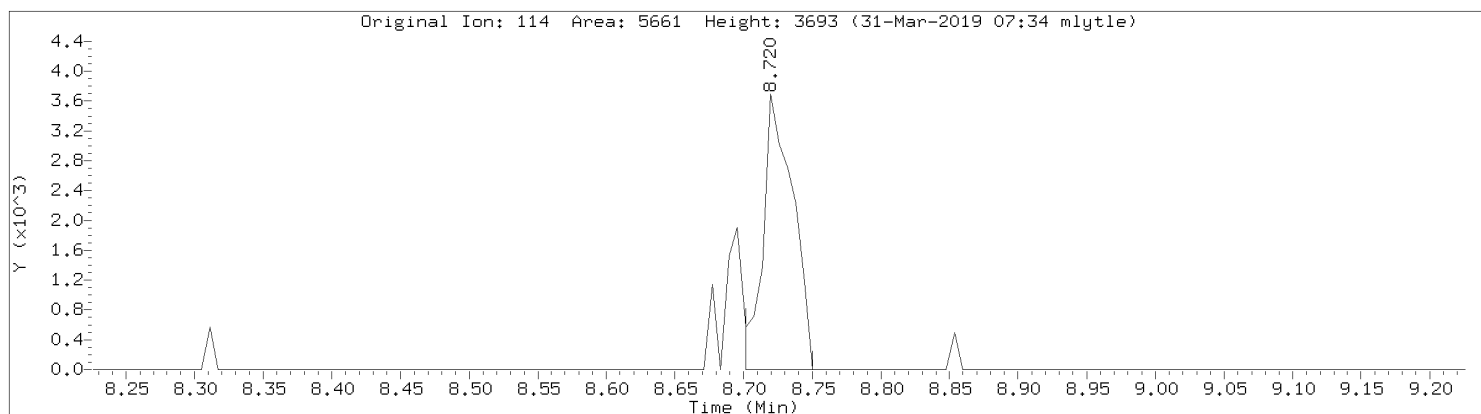


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08920.D
Injection Date: 30-MAR-2019 15:48
Instrument: 10airI.i
Lab Sample ID: 10468767011

Compound: Chlorobenzene
CAS Number: 108-90-7

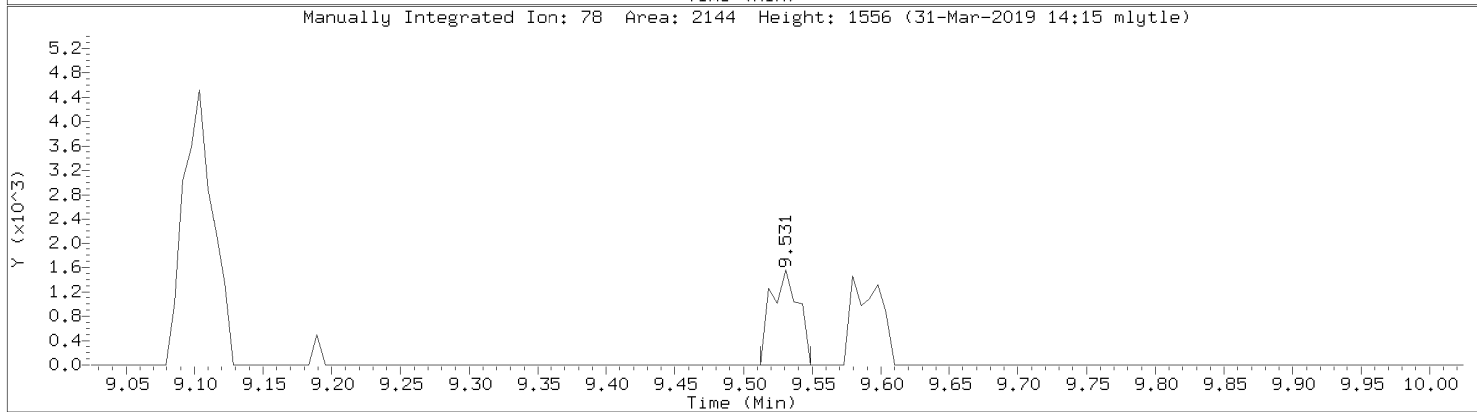
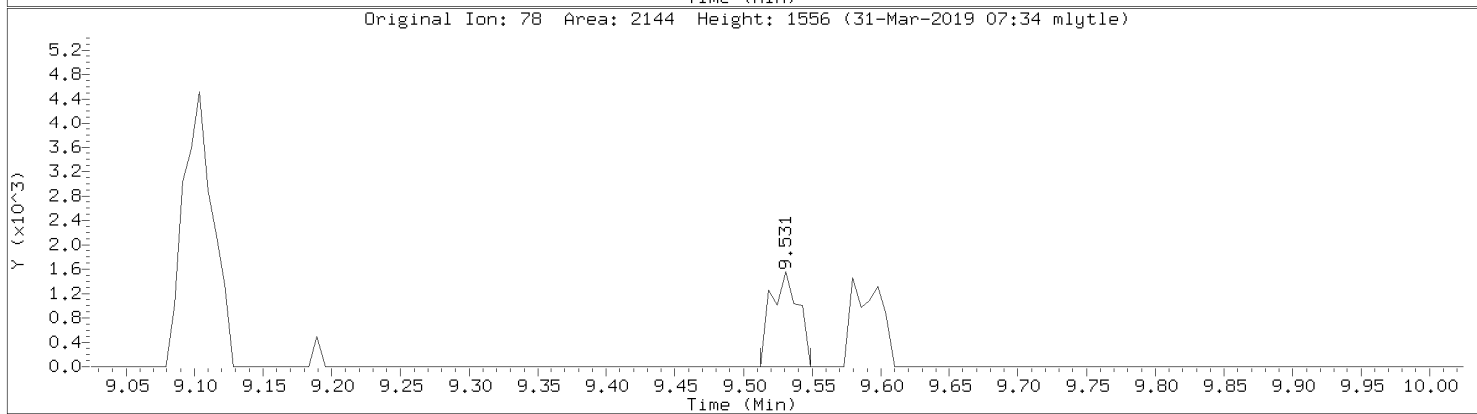
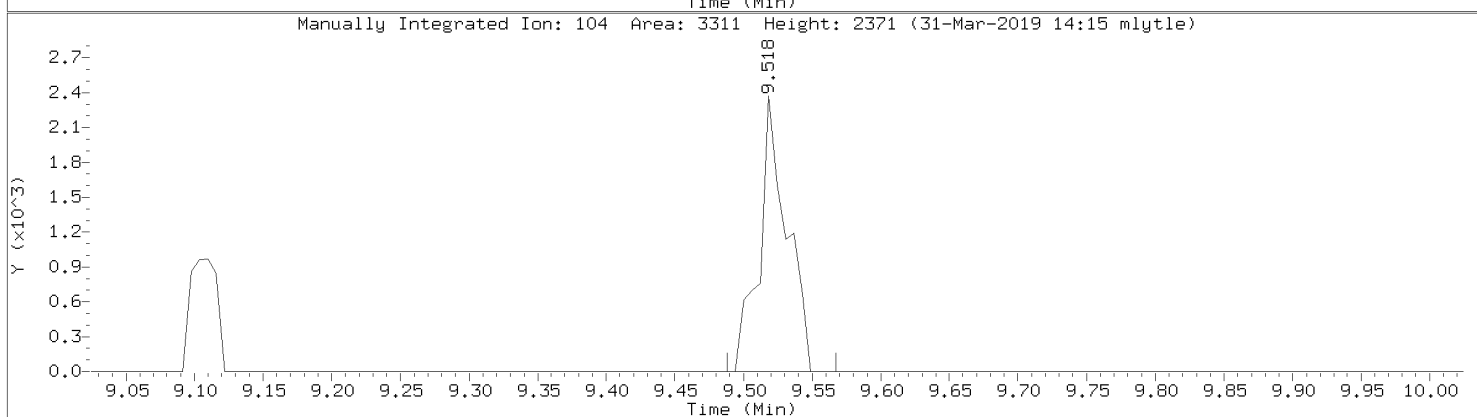
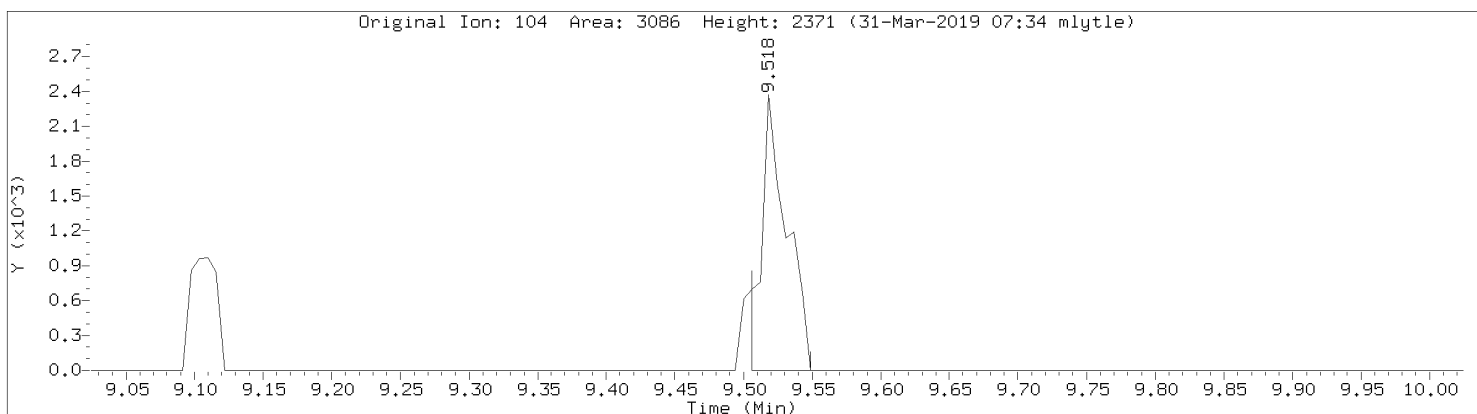


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08920.D
Injection Date: 30-MAR-2019 15:48
Instrument: 10airI.i
Lab Sample ID: 10468767011

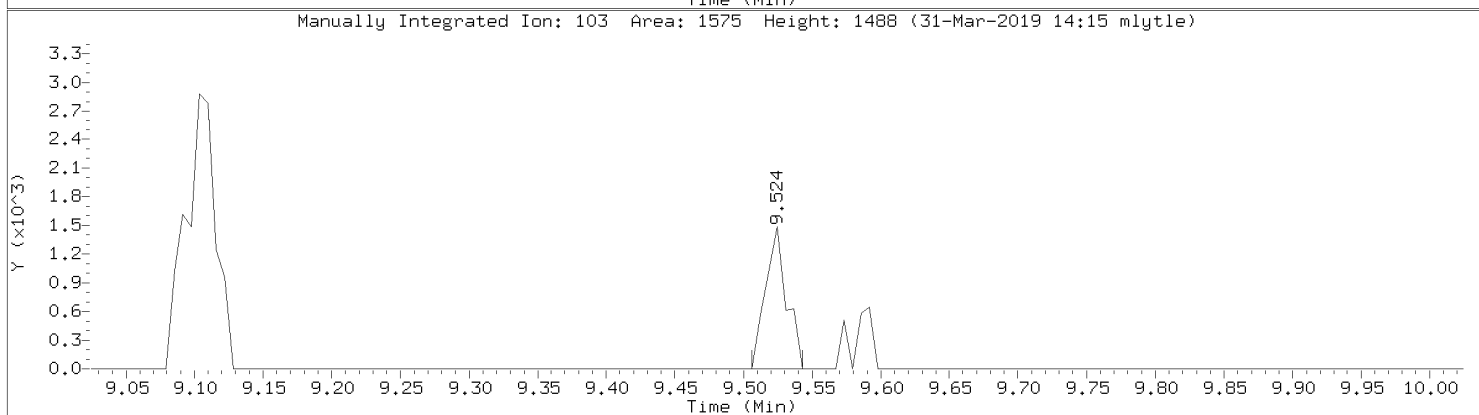
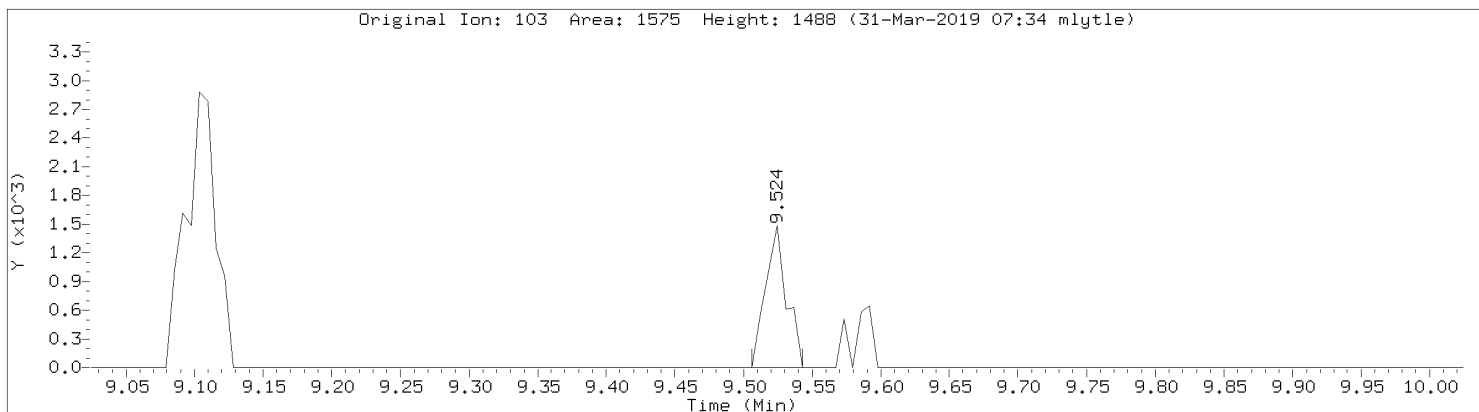


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08920.D
Injection Date: 30-MAR-2019 15:48
Instrument: 10airI.i
Lab Sample ID: 10468767011

Compound: Styrene
CAS Number: 100-42-5

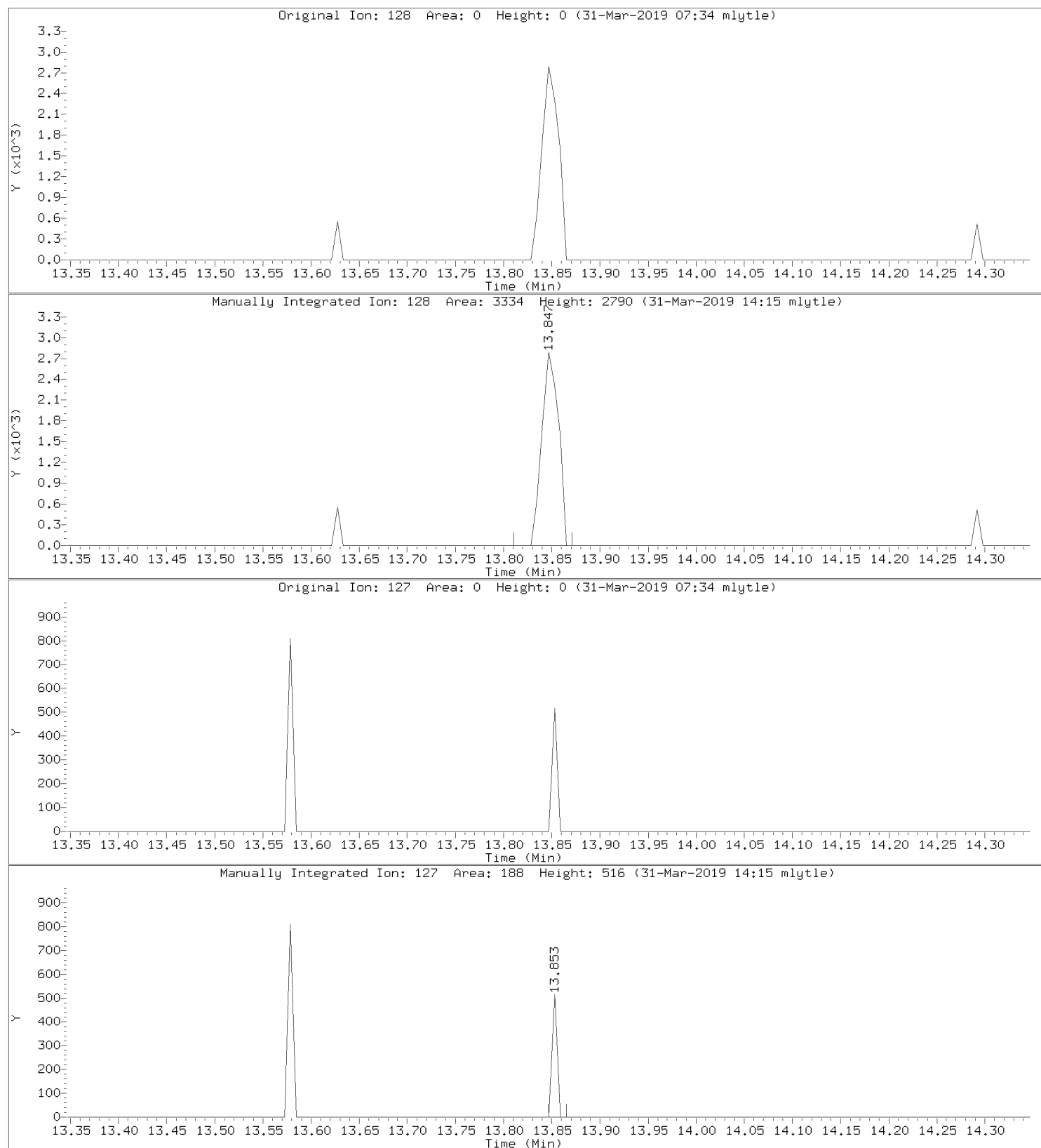


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Injection Date: 30-MAR-2019 15:48
Instrument: 10airI.i
Lab Sample ID: 10468767011



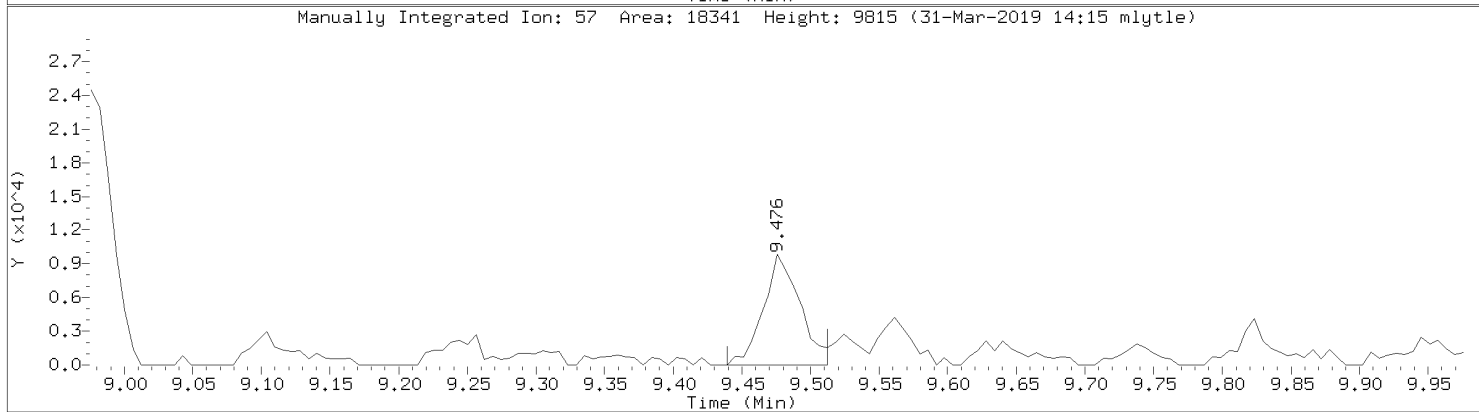
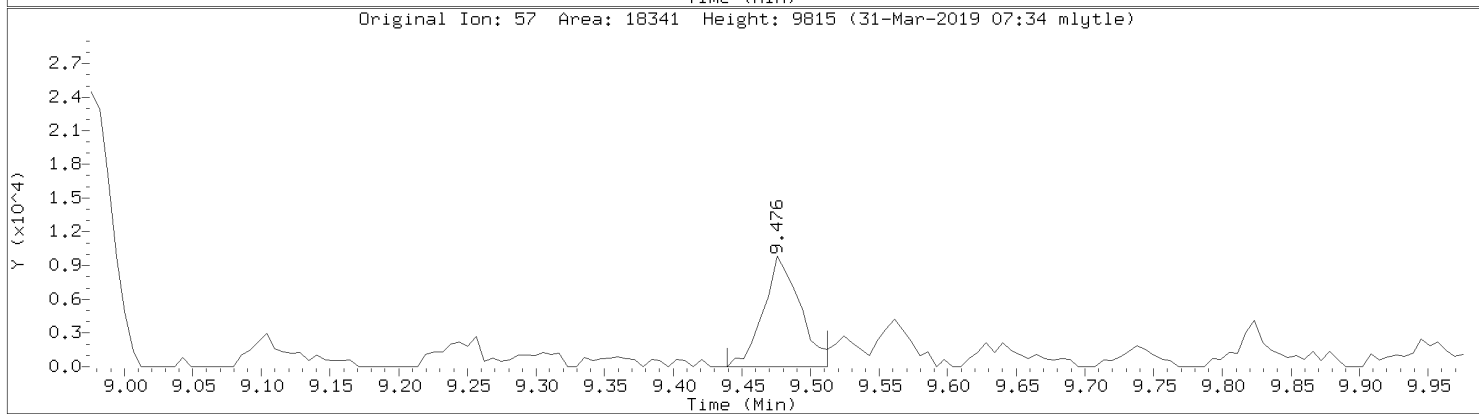
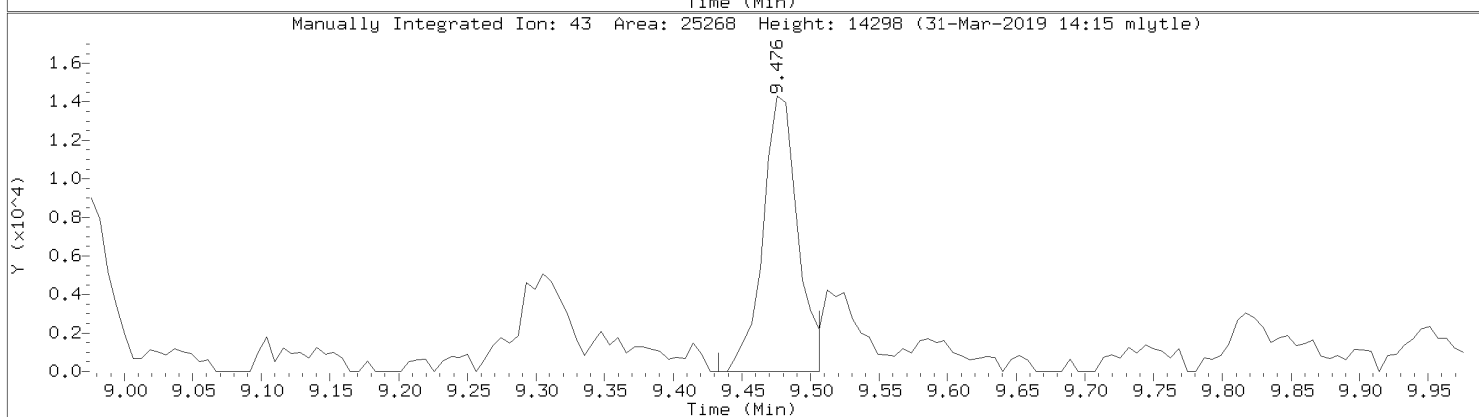
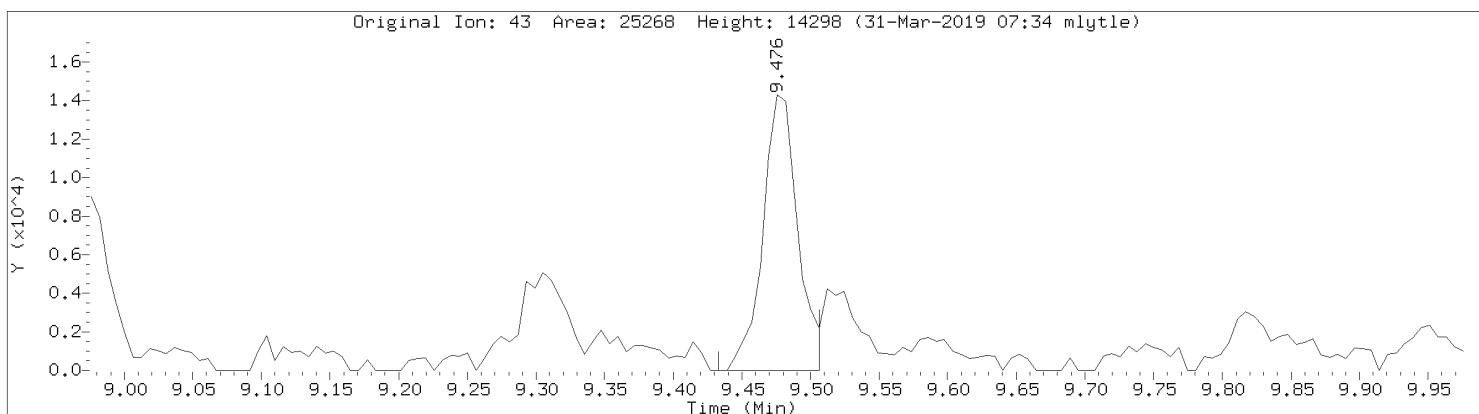
Data File: \\192.168.10.12\chem\10airI.i\033019.b\08920.D
Injection Date: 30-MAR-2019 15:48
Instrument: 10airI.i
Lab Sample ID: 10468767011

Compound: Naphthalene
CAS Number: 91-20-3

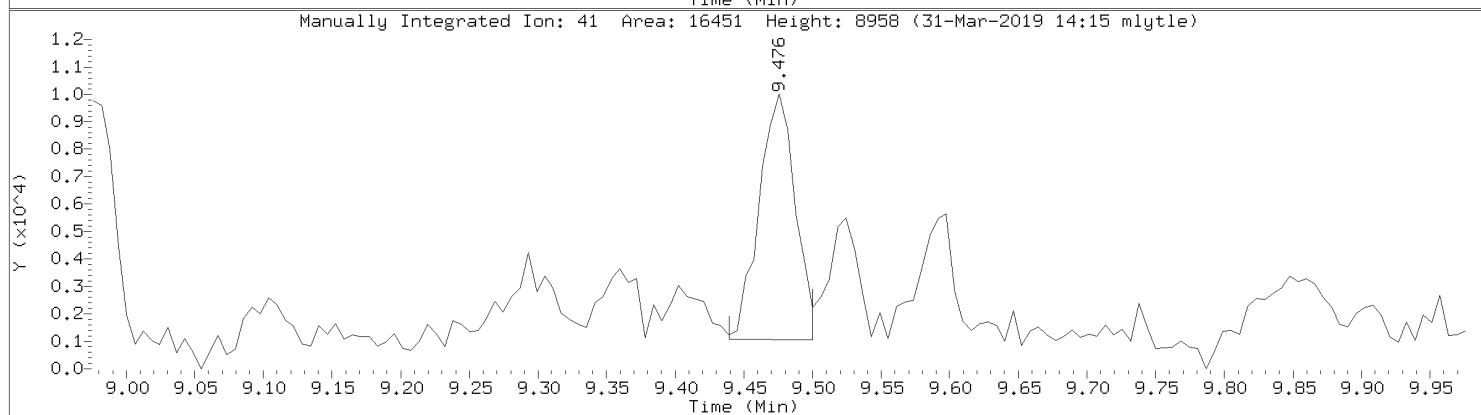
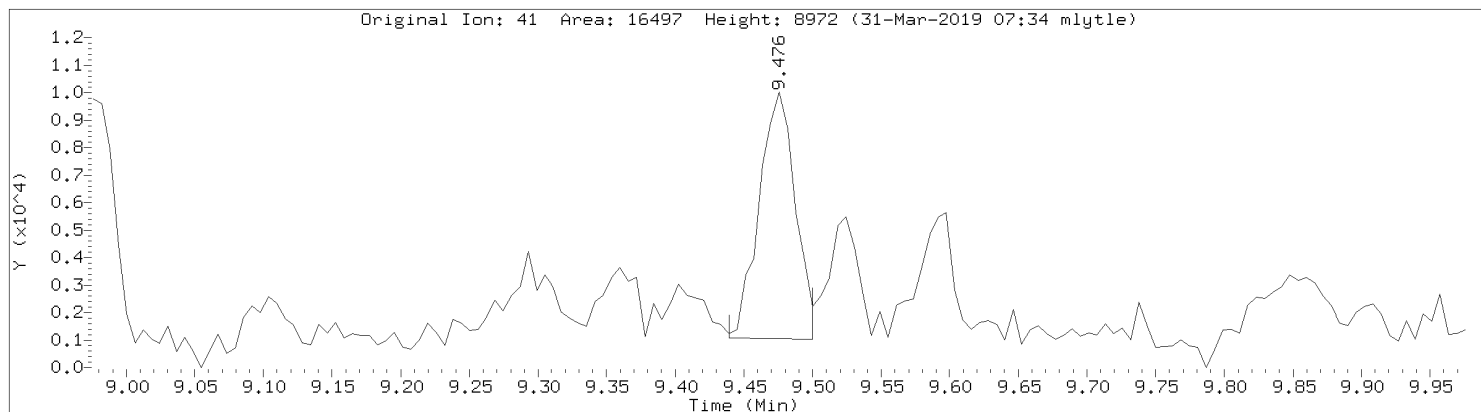


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08920.D
Injection Date: 30-MAR-2019 15:48
Instrument: 10airI.i
Lab Sample ID: 10468767011

Compound: n-Nonane
CAS Number: 111-84-2



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08920.D
Injection Date: 30-MAR-2019 15:48
Instrument: 10airI.i
Lab Sample ID: 10468767011



Pace Analytical Services, Inc.

TO15 Analysis (UNIX)

Data file : \\192.168.10.12\chem\10airI.i\033019.b\08921.D
 Lab Smp Id: 10468767013
 Inj Date : 30-MAR-2019 16:17
 Operator : MJL Inst ID: 10airI.i
 Smp Info :
 Misc Info : 33312
 Comment : Volatile Organic COMPOUNDS in Air
 Method : \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
 Meth Date : 31-Mar-2019 13:48 mlytle Quant Type: ISTD
 Cal Date : 30-MAR-2019 10:33 Cal File: 08909.D
 Als bottle: 21
 Dil Factor: 1.44000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 4.14
 Processing Host: 10MNAIRWKS08

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.440	Dilution Factor
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ppbv)	FINAL (ppbv)	
1 1,1-Difluoroethane	65		3.019	3.013	(0.536)	6735	0.26432	0.381 (QM)	
2 Chlorodifluoromethane	67		3.031	3.025	(0.539)	2718	0.24212	0.349 (Q)	
3 Propylene	41		Compound Not Detected.						(D)
4 Dichlorodifluoromethane	85		3.068	3.068	(0.545)	29051	0.25542	0.368	
5 Dichlorotetrafluoroethane	85		Compound Not Detected.						
6 Chloromethane	50		3.147	3.147	(0.559)	19820	0.40388	0.582	
7 Vinyl chloride	62		Compound Not Detected.						
8 1,3-Butadiene	54		Compound Not Detected.						(D)
9 Bromomethane	94		Compound Not Detected.						
10 Chloroethane	64		Compound Not Detected.						
11 Ethanol	45		3.440	3.440	(0.611)	56425	3.08342	4.44	
12 Vinyl Bromide	106		Compound Not Detected.						
13 Isopentane	43		3.556	3.556	(0.632)	43992	0.98645	1.42	
14 Freon 123	83		Compound Not Detected.						
15 Acrolein	56		3.617	3.617	(0.643)	1907	0.13721	0.198	
16 Trichlorofluoromethane	101		3.635	3.635	(0.646)	13532	0.13949	0.201	
17 Acetone	43		3.653	3.653	(0.649)	393749	3.81271	5.49	
18 Isopropyl Alcohol	45		3.659	3.659	(0.650)	74593	1.00456	1.45 (Q)	
19 Tert Butyl Alcohol (TBA)	59		3.860	3.860	(0.686)	4686	0.04575	0.0659 (aQ)	
20 Acrylonitrile	53		Compound Not Detected.						
21 1,1-Dichloroethene	61		3.867	3.867	(0.687)	1559	0.02105	0.0303 (a)	
22 Methyl Acetate	43		Compound Not Detected.						
23 Freon 113	101		3.909	3.903	(0.695)	3465	0.04371	0.0629 (a)	

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
24 Methylene chloride	49		3.958	3.959	(0.703)	227696	3.26835	4.71
25 Allyl Chloride	76		Compound Not Detected.					
26 Carbon Disulfide	76		4.080	4.080	(0.725)	4605	0.04285	0.0617 (aM)
27 trans-1,2-dichloroethene	96		Compound Not Detected.					
28 Methyl Tert-Butyl Ether	73		Compound Not Detected.					
29 Vinyl Acetate	43		Compound Not Detected.					(D)
30 1,1-Dichloroethane	63		4.360	4.366	(0.775)	4211	0.05376	0.0774
31 Methyl Ethyl Ketone	72		4.513	4.513	(0.802)	9289	0.38896	0.560 (Q)
32 n-Hexane	57		4.549	4.549	(0.808)	37558	0.49752	0.716 (Q)
33 Di-isopropyl Ether	45		Compound Not Detected.					
34 Ethyl Acetate	43		4.690	4.690	(0.833)	73985	0.54581	0.786 (Q)
35 cis-1,2-Dichloroethene	96		Compound Not Detected.					
36 Ethyl Tert-Butyl Ether	59		Compound Not Detected.					
37 Chloroform	83		Compound Not Detected.					(D)
38 Tetrahydrofuran	42		4.970	4.964	(0.883)	10576	0.17701	0.255 (Q)
39 1,1,1-Trichloroethane	97		5.214	5.214	(0.926)	7288	0.07567	0.109
40 1,2-Dichloroethane	62		Compound Not Detected.					
41 Benzene	78		5.458	5.458	(0.970)	13740	0.11280	0.162
42 Carbon tetrachloride	117		5.482	5.476	(0.974)	3417	0.03745	0.0539 (a)
43 Cyclohexane	56		5.482	5.482	(0.974)	8110	0.10759	0.155 (Q)
44 Tert Amyl Methyl Ether	73		Compound Not Detected.					(D)
* 45 1,4-Difluorobenzene	114		5.628	5.628	(1.000)	949146	10.0000	
46 2,2,4-Trimethylpentane	57		5.769	5.769	(1.025)	7549	0.03306	0.0476 (a)
47 Heptane	43		5.903	5.909	(1.049)	5654	0.05288	0.0761
48 1,2-Dichloropropane	63		Compound Not Detected.					
49 Trichloroethene	130		6.006	6.006	(1.067)	3737	0.07408	0.107 (Q)
50 Methyl methacrylate	69		Compound Not Detected.					
51 1,4-Dioxane	88		Compound Not Detected.					(D)
52 Bromodichloromethane	83		Compound Not Detected.					
53 Methylcyclohexane	98		6.457	6.458	(1.147)	1454	0.04618	0.0665 (aQ)
54 Methyl Isobutyl Ketone	43		6.579	6.579	(1.169)	5843	0.04329	0.0623 (aM)
55 cis-1,3-Dichloropropene	75		Compound Not Detected.					
56 trans-1,3-Dichloropropene	75		Compound Not Detected.					
57 Toluene	91		7.201	7.195	(1.279)	61702	0.43958	0.633
58 1,1,2-Trichloroethane	97		Compound Not Detected.					
59 Methyl Butyl Ketone	43		Compound Not Detected.					(D)
60 n-Octane	43		7.634	7.634	(0.879)	26104	0.19504	0.281 (Q)
61 Dibromochloromethane	129		Compound Not Detected.					
62 1,2-Dibromoethane	107		Compound Not Detected.					
63 Tetrachloroethene	166		Compound Not Detected.					
* 64 Chlorobenzene - d5	117		8.683	8.683	(1.000)	801739	10.0000	
65 Chlorobenzene	112		Compound Not Detected.					
66 Ethyl Benzene	91		8.969	8.963	(1.033)	4225	0.02444	0.0352 (a)
67 m&p-Xylene	91		9.103	9.103	(1.048)	8955	0.06805	0.0980
68 n-Nonane	43		9.475	9.475	(1.091)	10178	0.07622	0.110
69 Bromoform	173		Compound Not Detected.					
70 Styrene	104		9.524	9.524	(1.097)	5158	0.05604	0.0807 (Q)
71 o-Xylene	91		9.591	9.591	(1.105)	4022	0.02982	0.0429 (a)
72 1,1,2,2-Tetrachloroethane	83		Compound Not Detected.					
73 Isopropylbenzene	105		Compound Not Detected.					
74 N-Propylbenzene	91		Compound Not Detected.					
75 4-Ethyltoluene	105		Compound Not Detected.					
76 1,3,5-Trimethylbenzene	105		Compound Not Detected.					
78 Tert-Butyl Benzene	119		Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ppbv)	FINAL (ppbv)
79 1,2,4-Trimethylbenzene	105	11.408	11.408	(1.314)	4209	0.02943	0.0424 (a)
80 Sec- Butylbenzene	105	Compound Not Detected.					
81 1,3-Dichlorobenzene	146	Compound Not Detected.					
82 Benzyl Chloride	91	Compound Not Detected.					
83 1,4-Dichlorobenzene	146	Compound Not Detected.					
84 p-Isopropyltoluene	119	Compound Not Detected.					
85 1,2,3-Trimethylbenzene	105	Compound Not Detected.					
86 1,2-Dichlorobenzene	146	Compound Not Detected.					
87 N-Butylbenzene	91	Compound Not Detected.					
88 1,2-Dibromo-3-Chloropropane	157	Compound Not Detected.					
89 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
90 Naphthalene	128	13.846	13.846	(1.595)	8284	0.07908	0.114
91 Hexachlorobutadiene	225	Compound Not Detected.					

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- D - User disabled compound identification.

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08921.D
Report Date: 31-Mar-2019 14:19

Pace Analytical Services, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: 10airI.i
Lab File ID: 08921.D
Lab Smp Id: 10468767013
Analysis Type: VOA
Quant Type: ISTD
Operator: MJL
Method File: \\192.168.10.12\chem\10airI.i\033019.b\TO15_089-19.m
Misc Info: 33312

Calibration Date: 30-MAR-2019
Calibration Time: 08:43

Level: LOW
Sample Type: AIR

Test Mode:

Use Initial Calibration Level 5.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	1148342	689005	1607679	949146	-17.35
64 Chlorobenzene - d	994820	596892	1392748	801739	-19.41

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
45 1,4-Difluorobenze	5.63	5.30	5.96	5.63	-0.00
64 Chlorobenzene - d	8.68	8.35	9.01	8.68	-0.00

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

Data File: \\192.168.10.12\chem\10airI.i\033019.b\08921.D

Date : 30-MAR-2019 16:17

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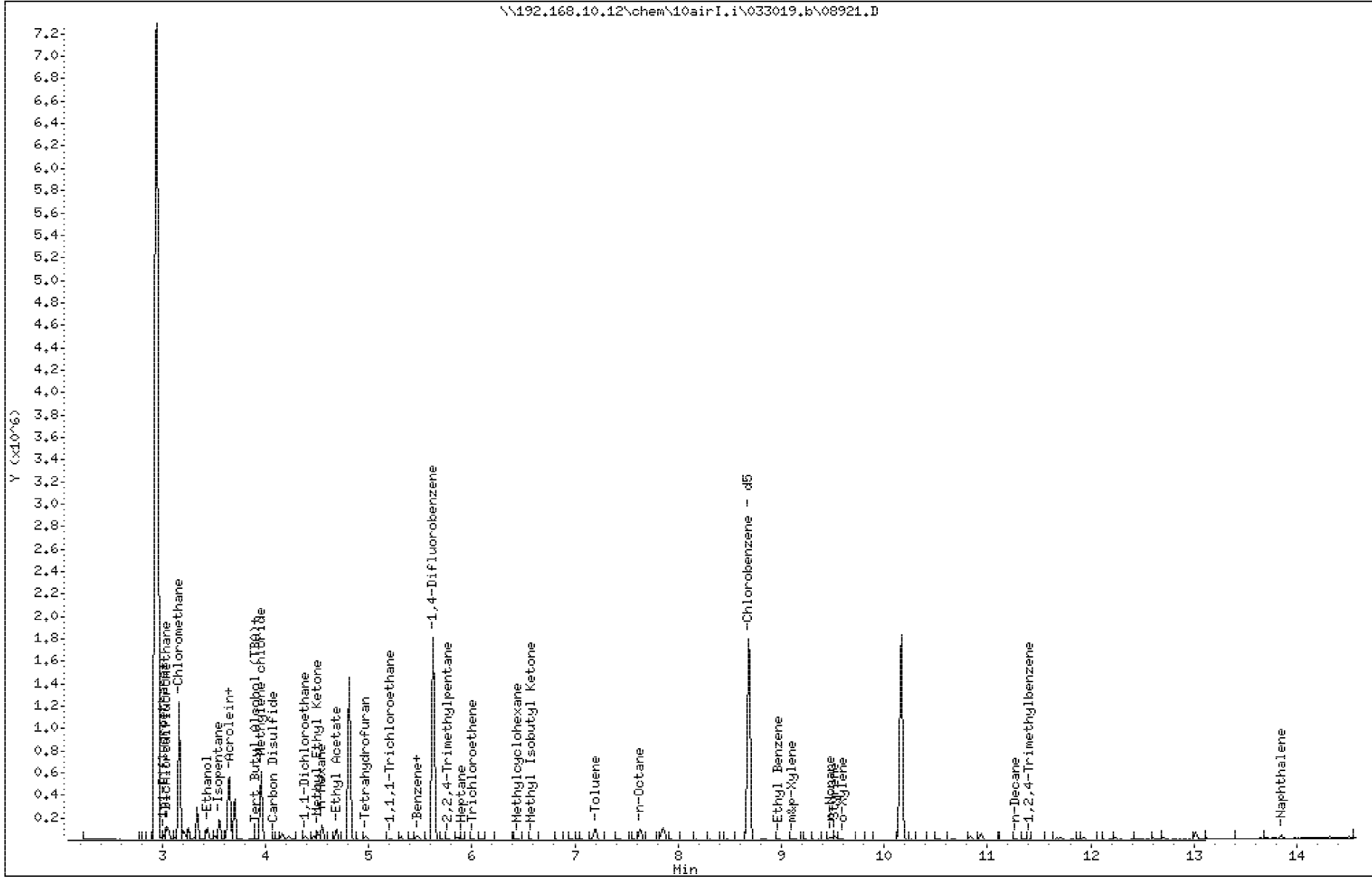
Sample Info:

Column phase: DB-5 SN:USD449717H

Instrument: 10airI.i

Operator: MJL

Column diameter: 0.32



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

Sample Info:

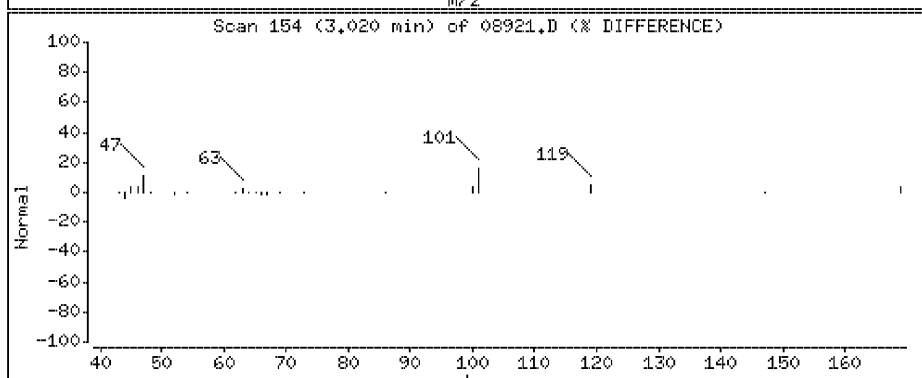
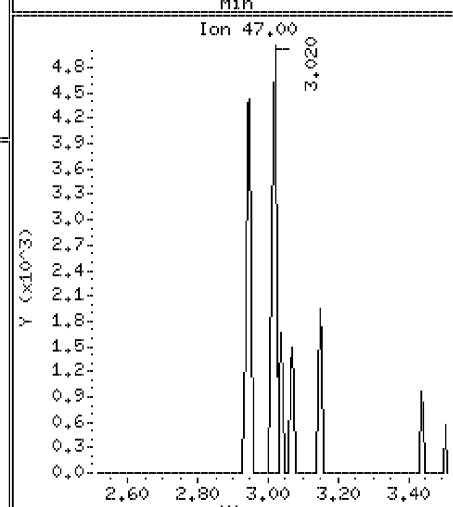
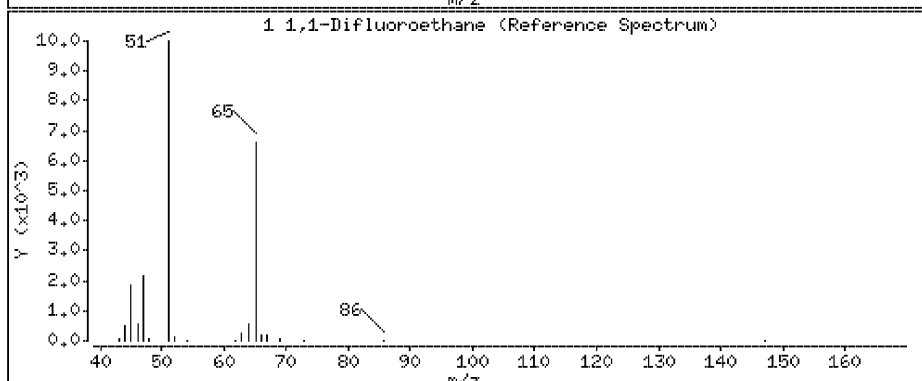
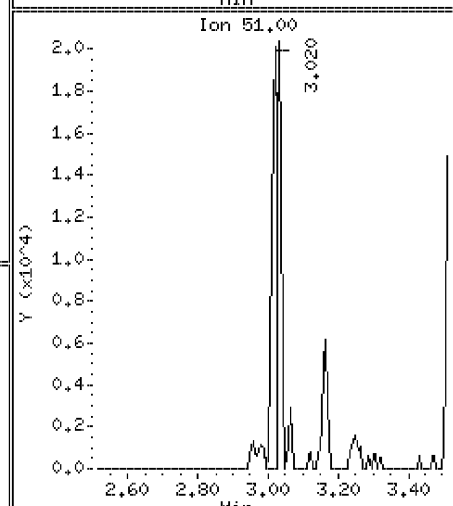
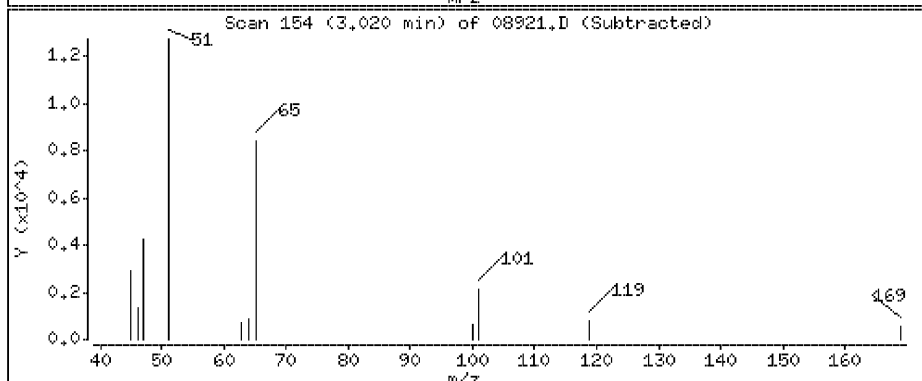
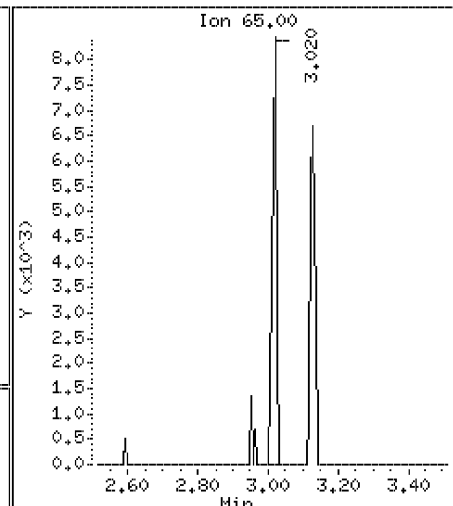
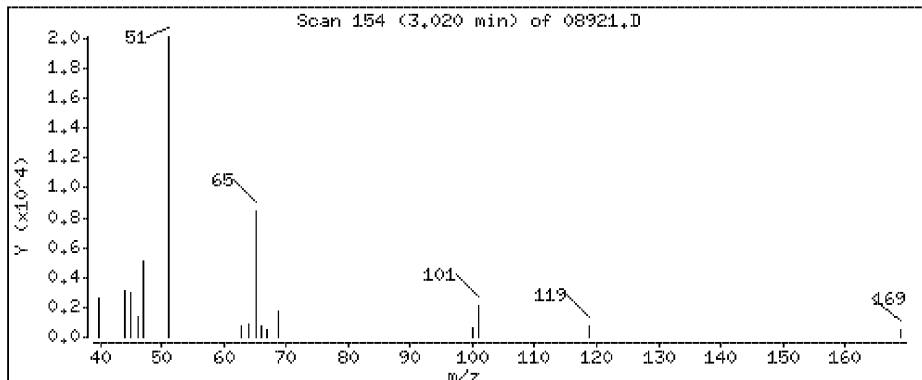
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

1,1,1-Difluoroethane

Concentration: 0,381 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

Sample Info:

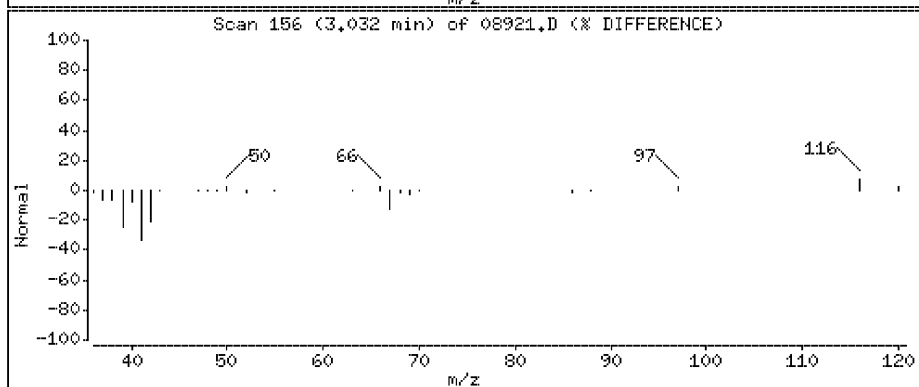
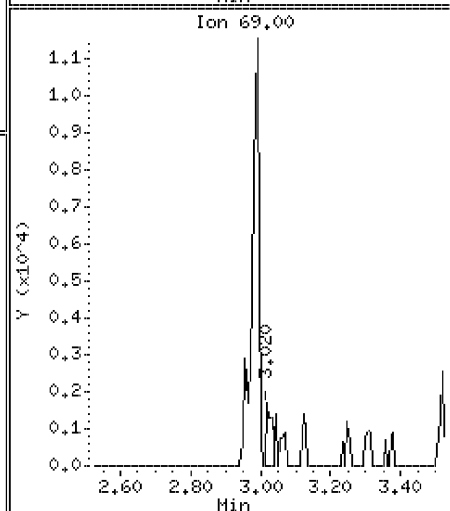
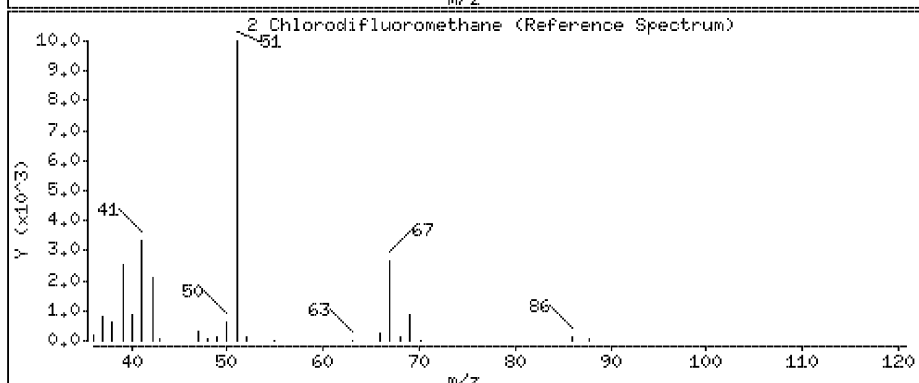
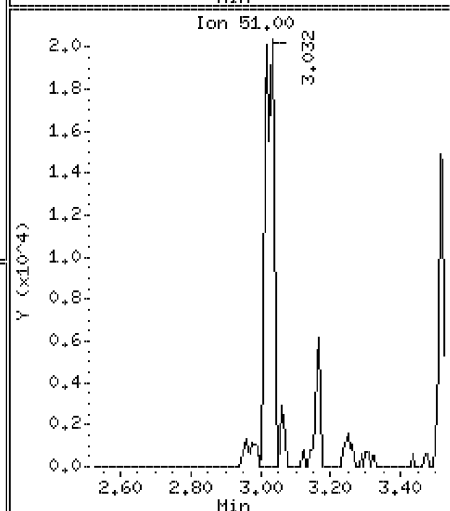
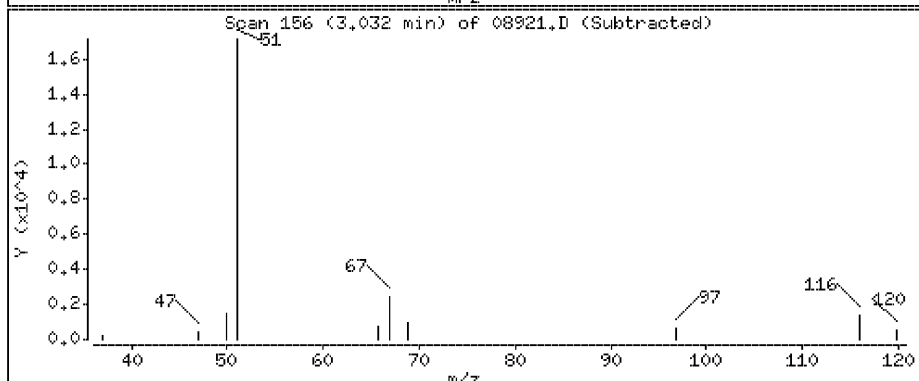
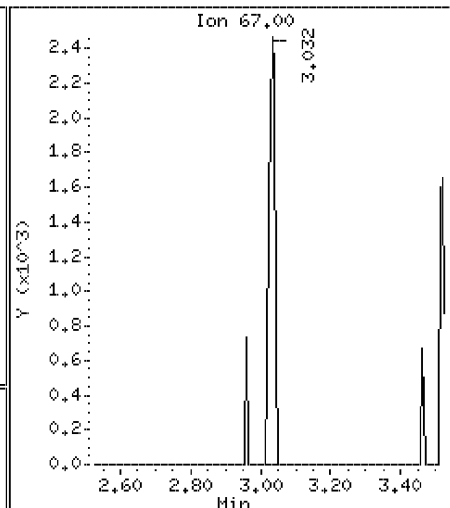
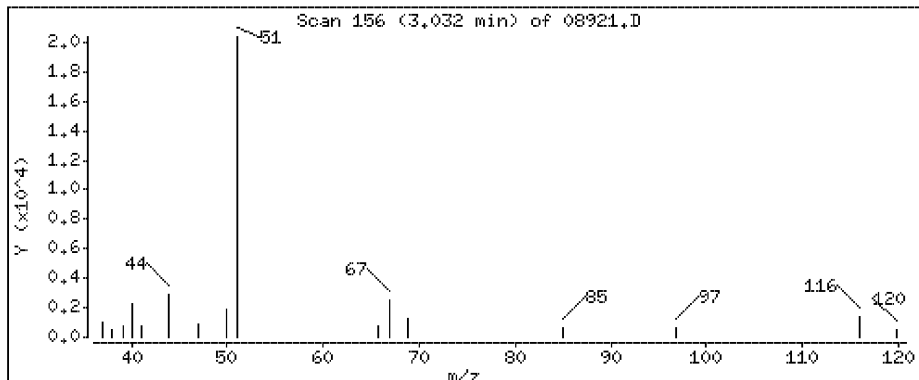
Operator: MJL

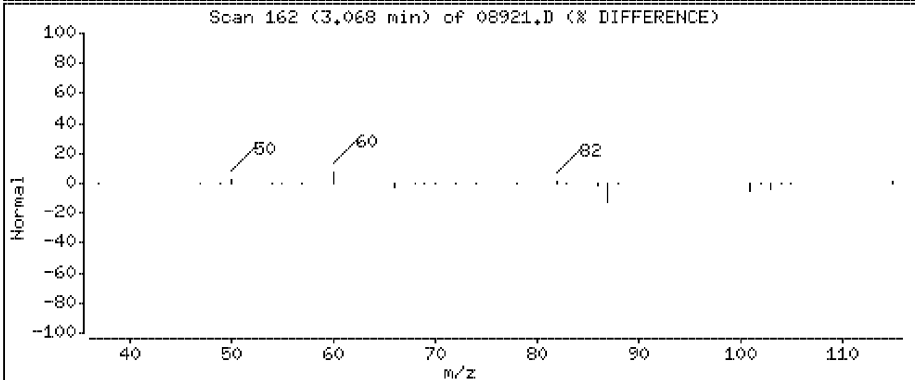
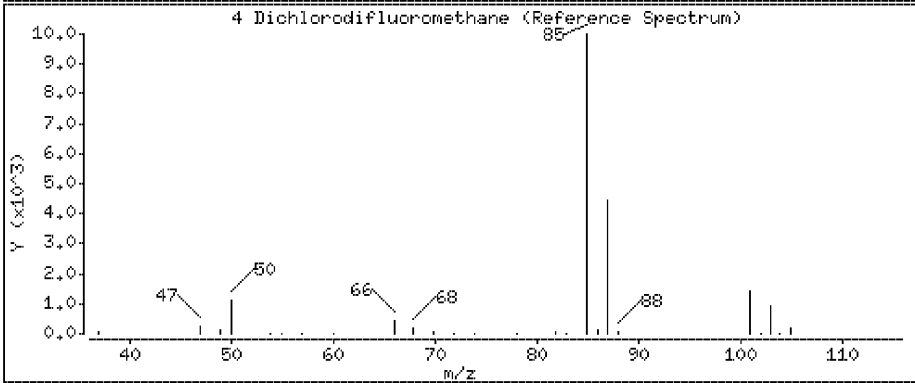
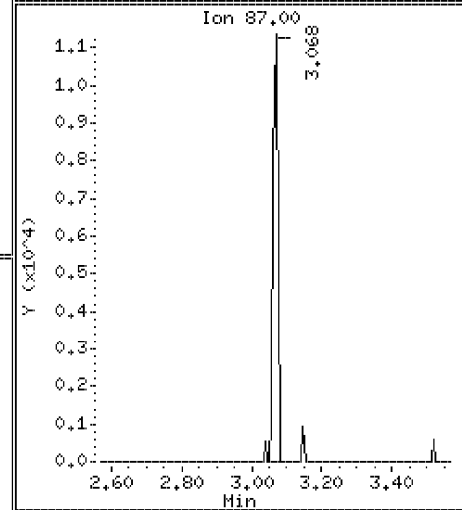
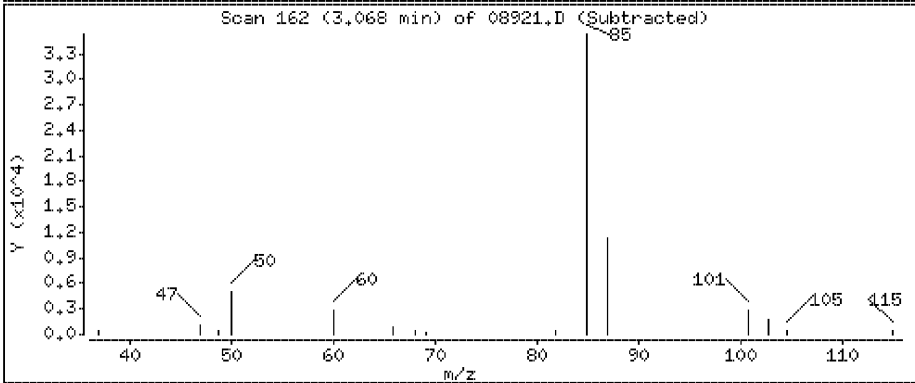
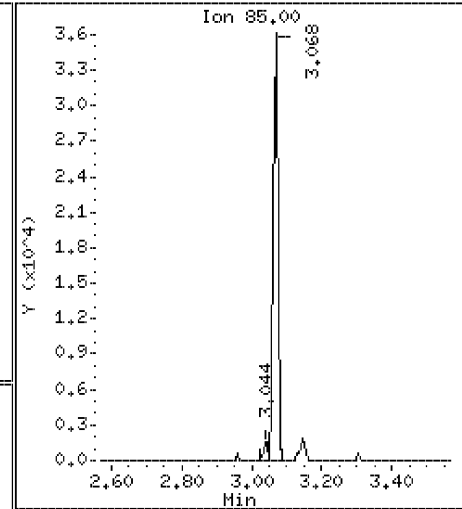
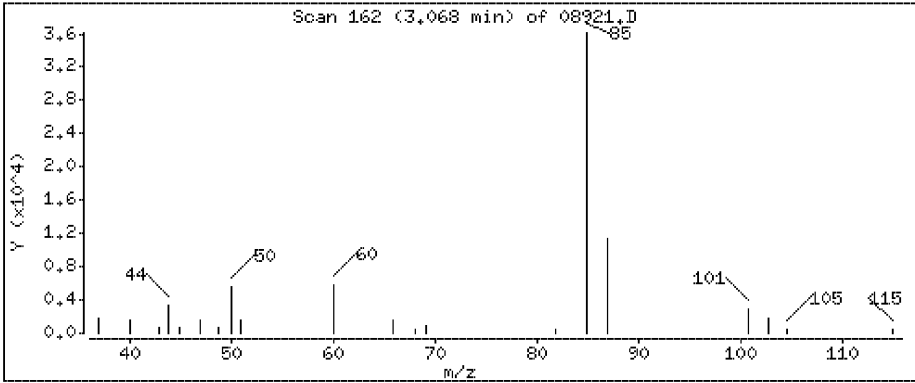
Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

2 Chlorodifluoromethane

Concentration: 0,349 ppbv





Data File: \\192.168.10.12\chem\10airI,1\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

Sample Info:

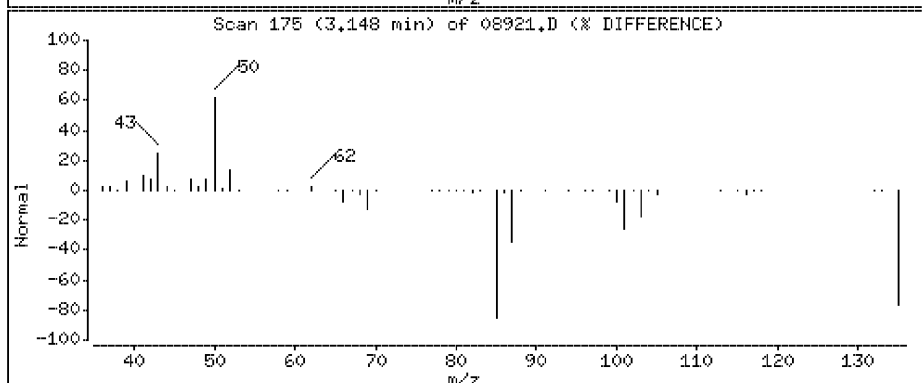
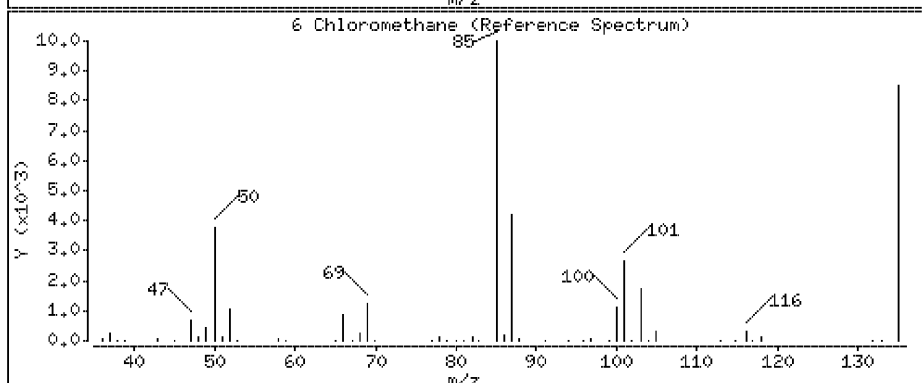
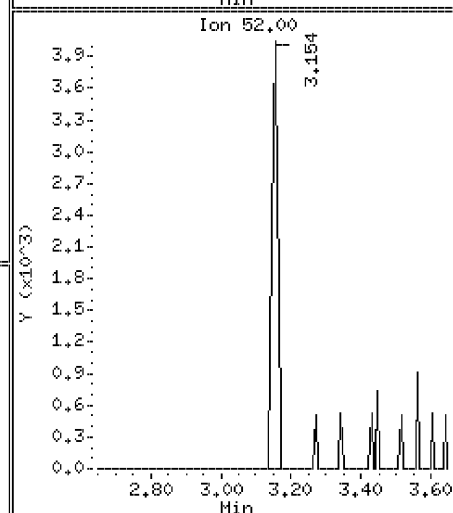
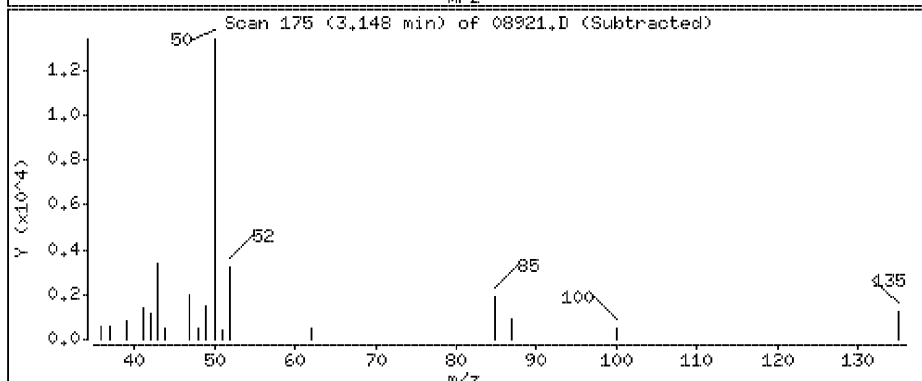
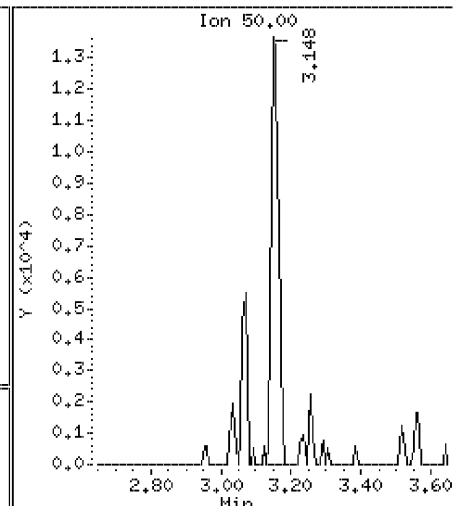
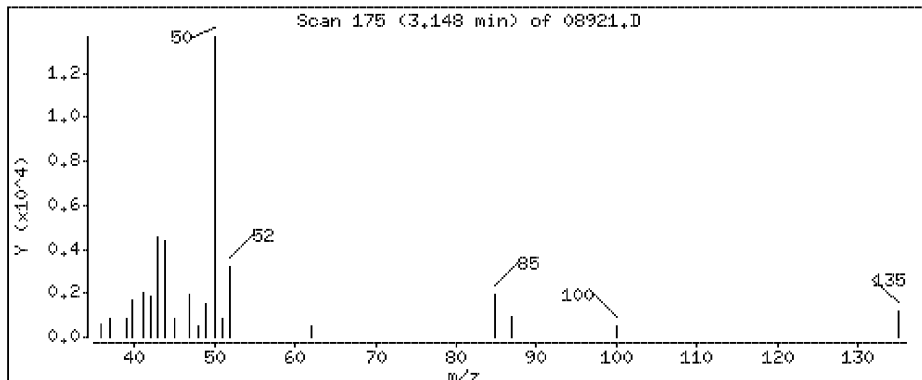
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

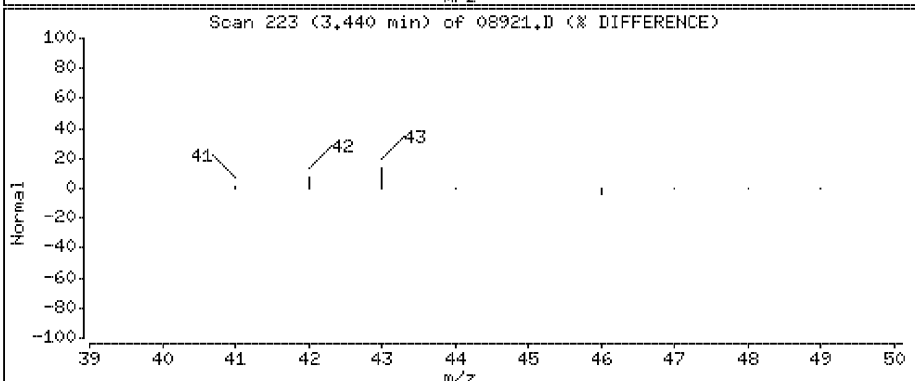
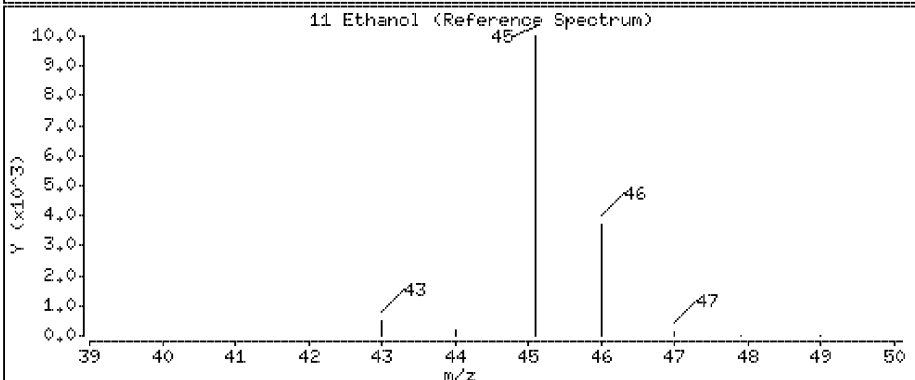
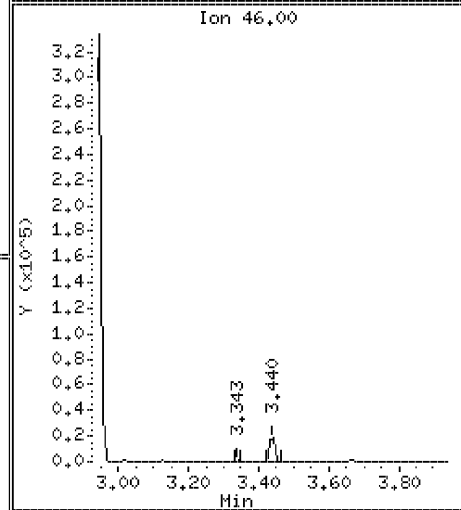
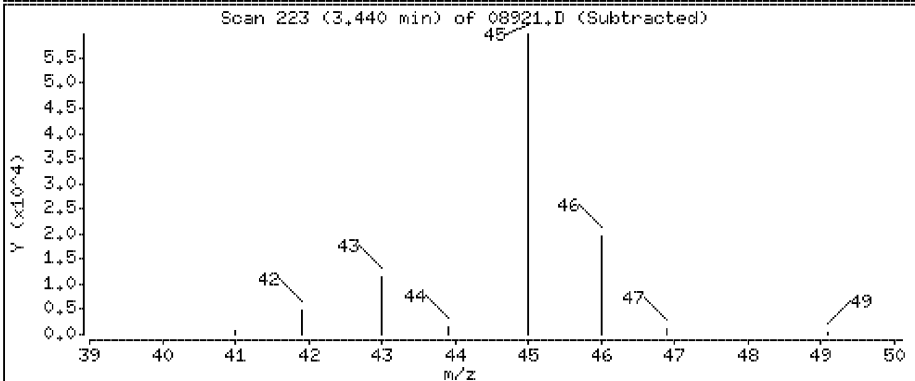
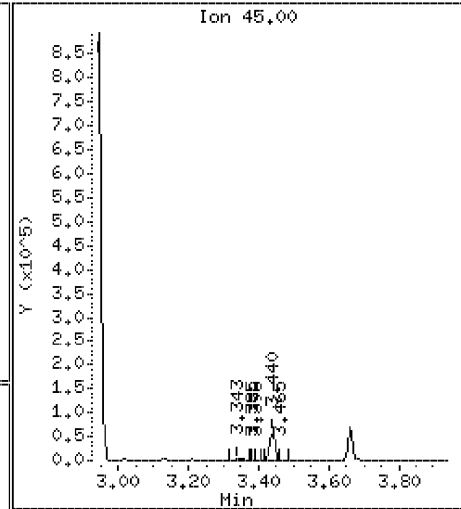
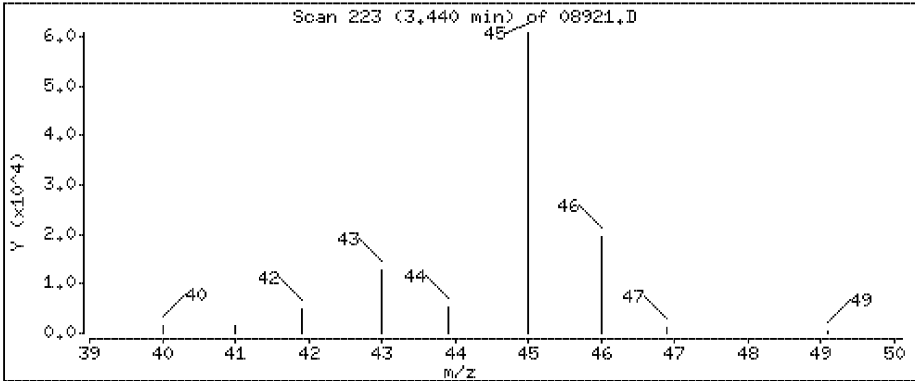
6 Chloromethane

Concentration: 0,582 ppbv



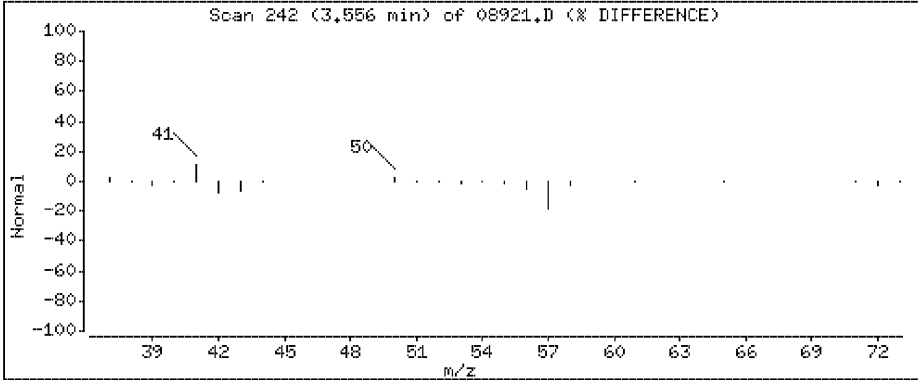
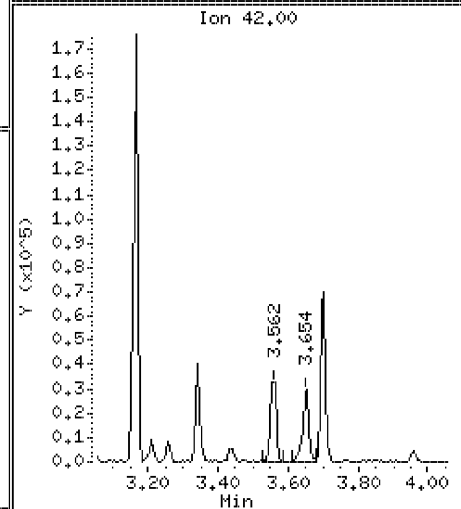
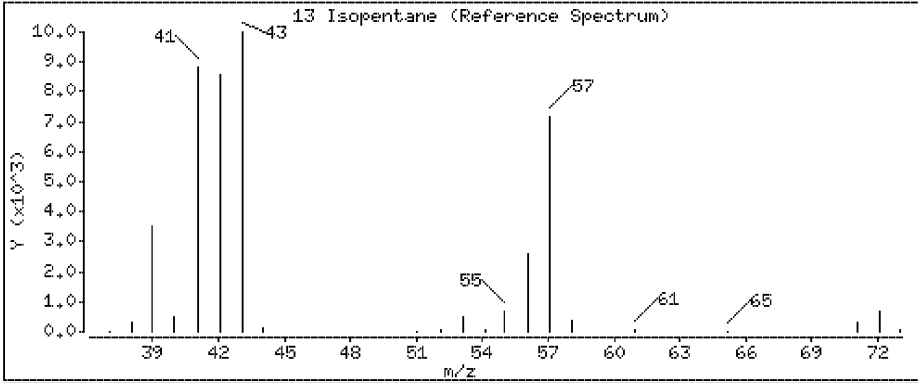
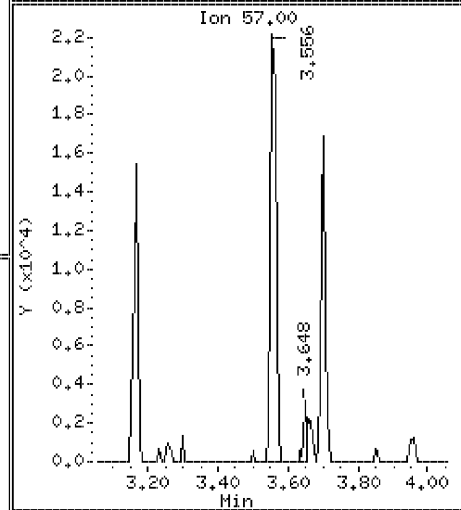
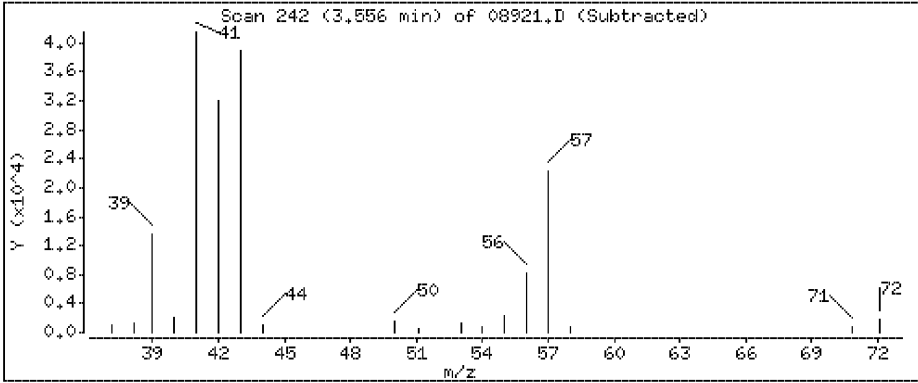
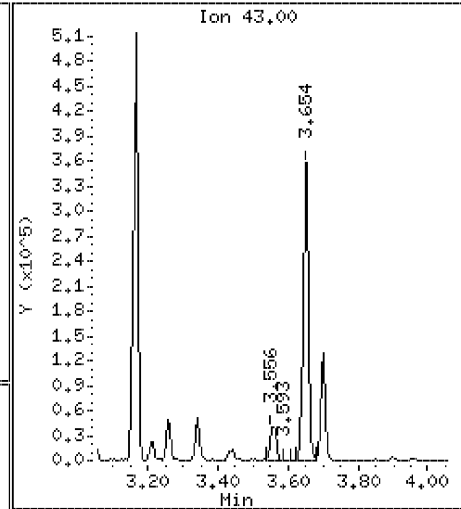
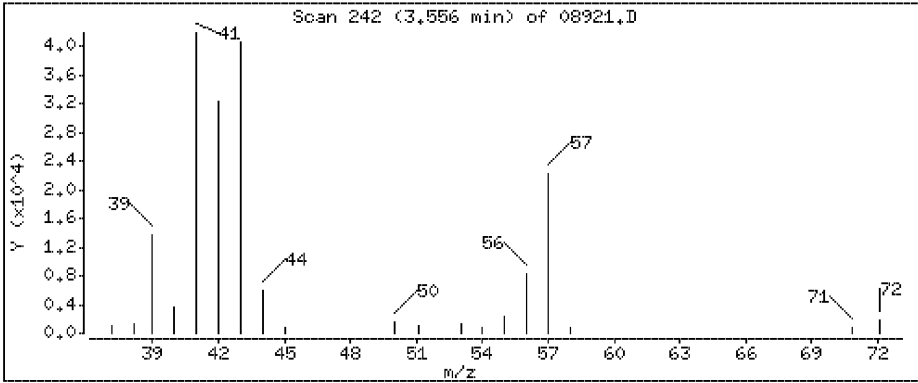
11 Ethanol

Concentration: 4.44 ppbv



13 Isopentane

Concentration: 1.42 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

Sample Info:

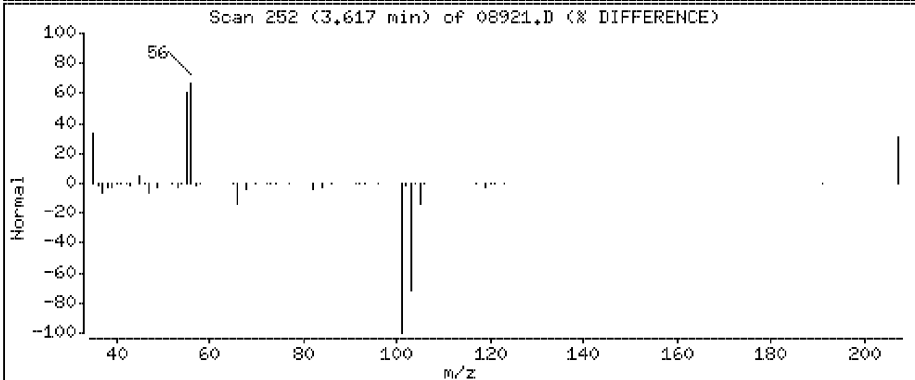
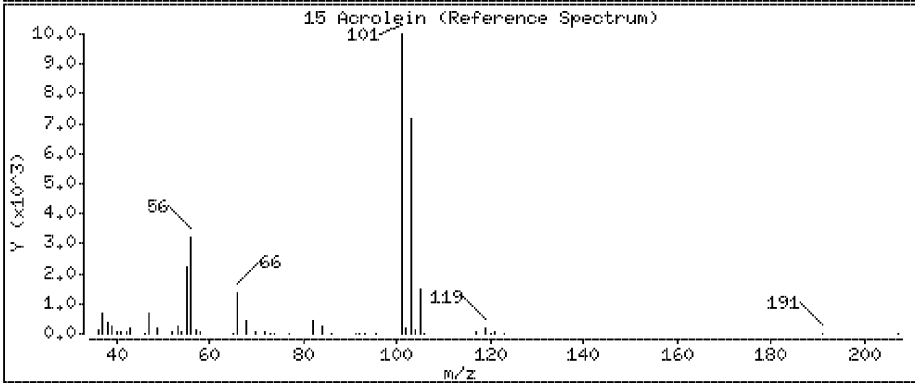
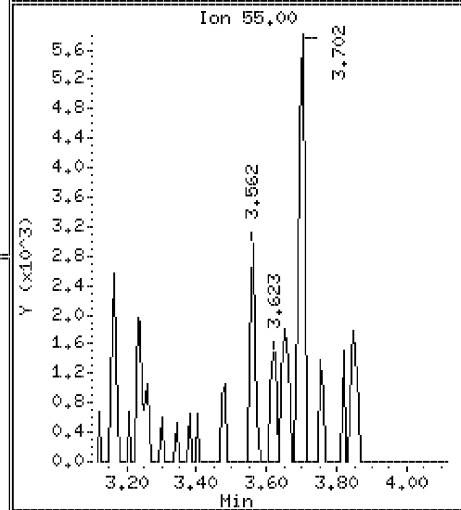
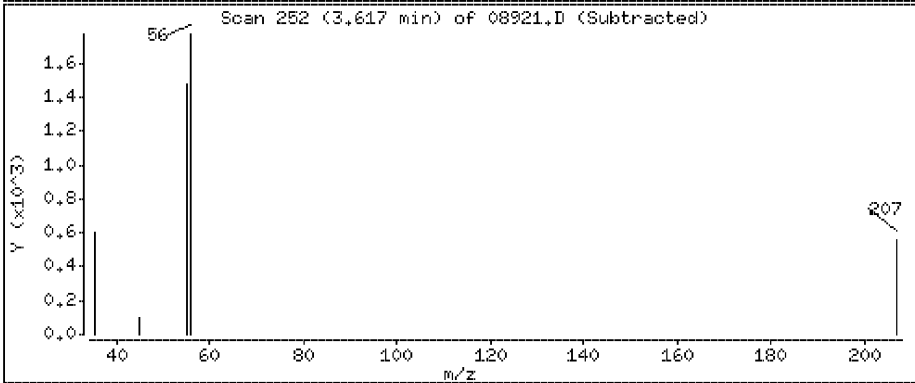
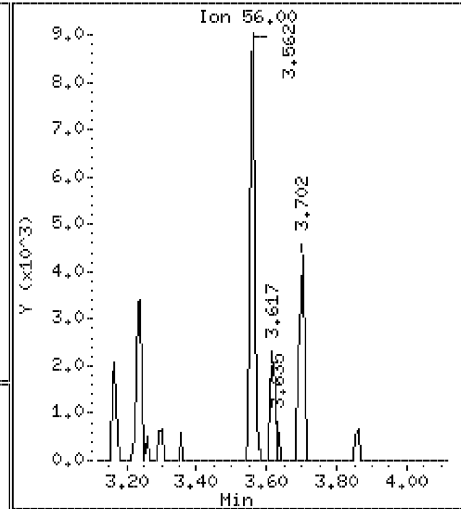
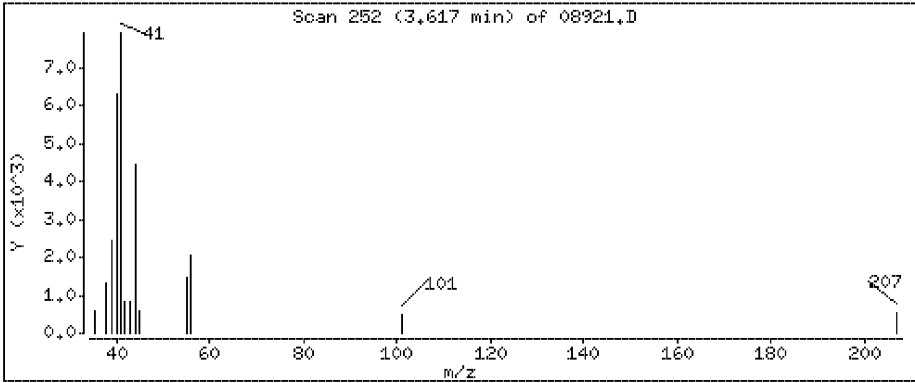
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

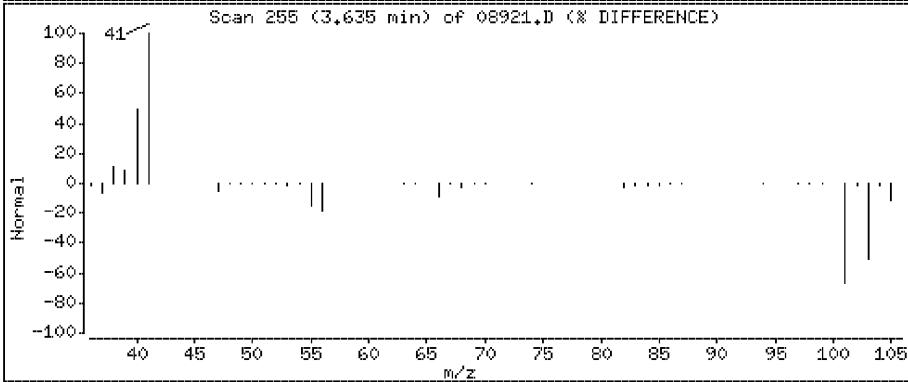
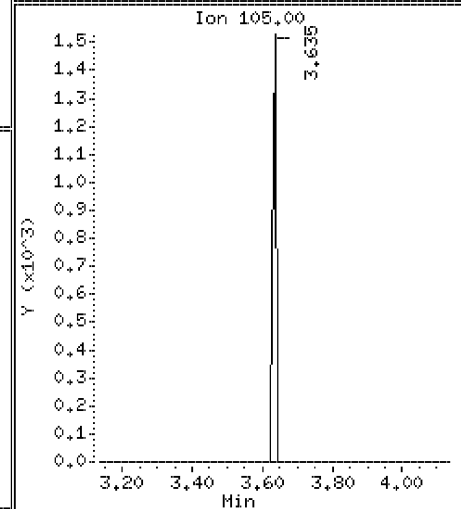
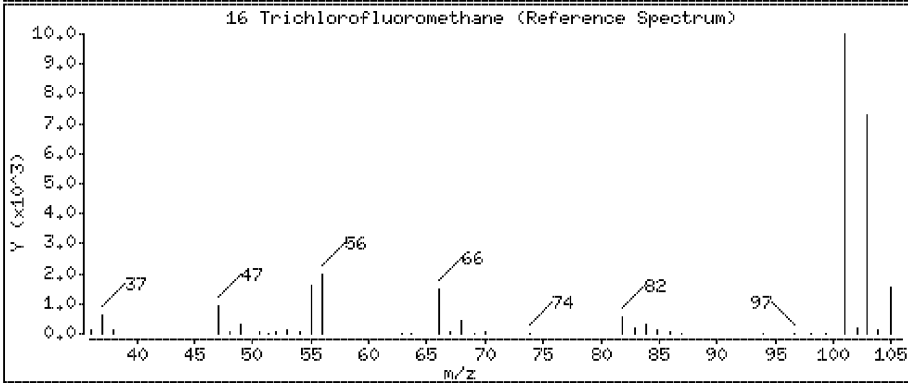
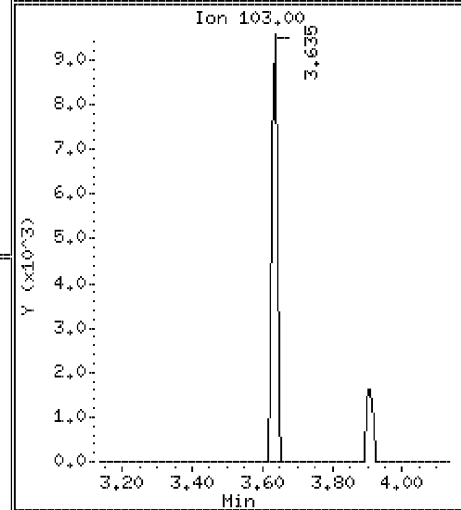
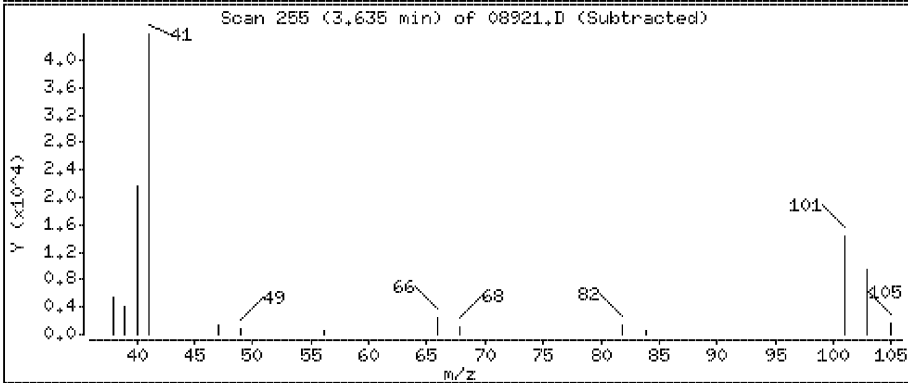
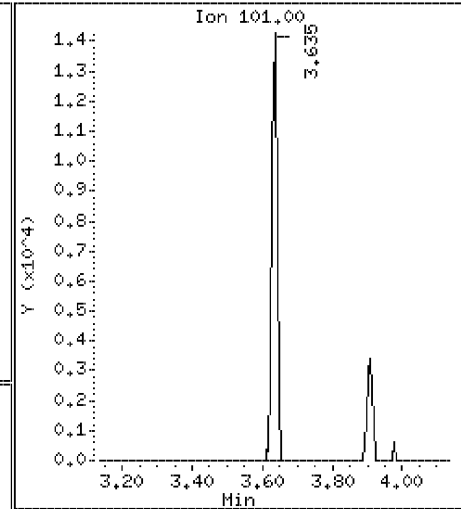
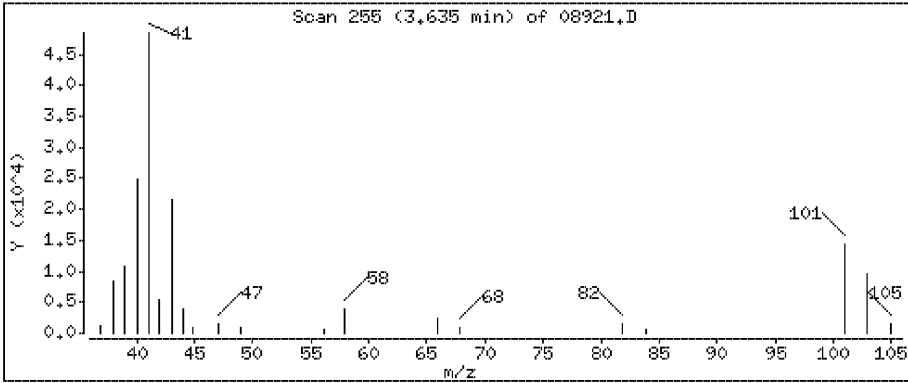
15 Acrolein

Concentration: 0,198 ppbv



16 Trichlorofluoromethane

Concentration: 0,201 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

Sample Info:

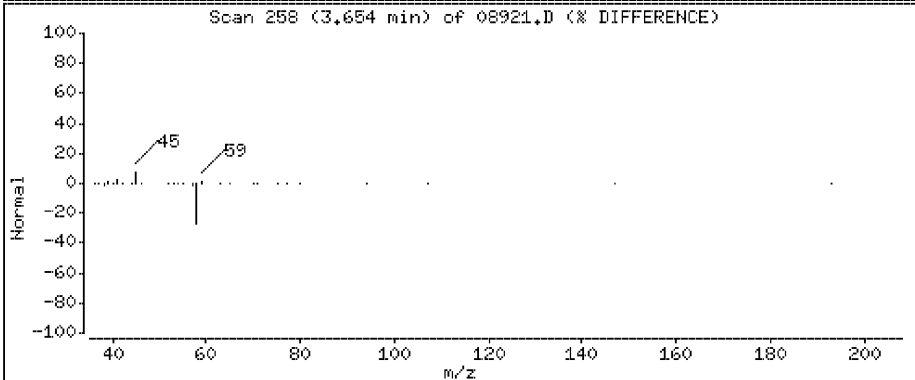
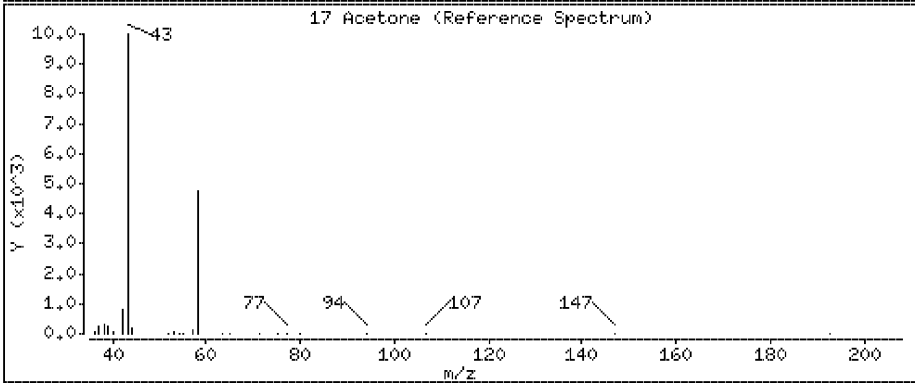
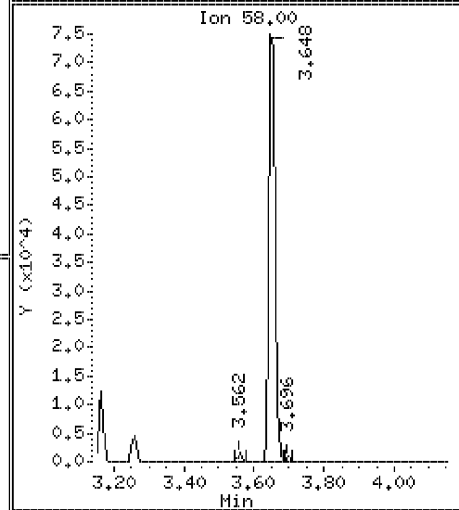
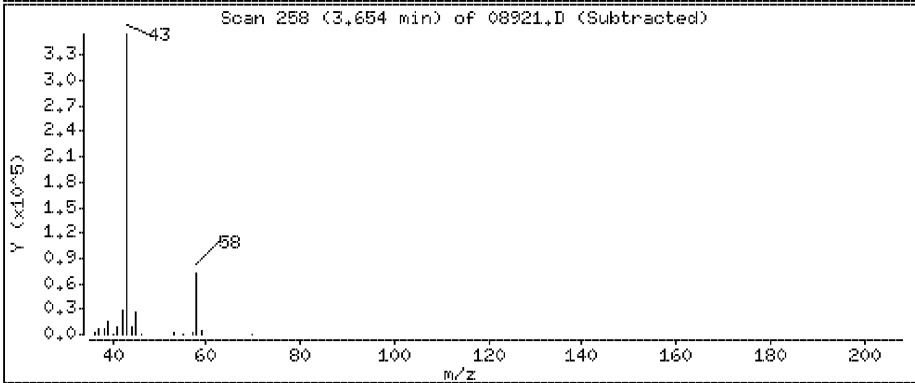
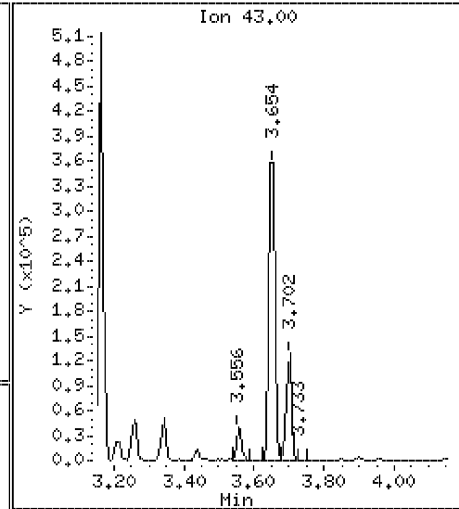
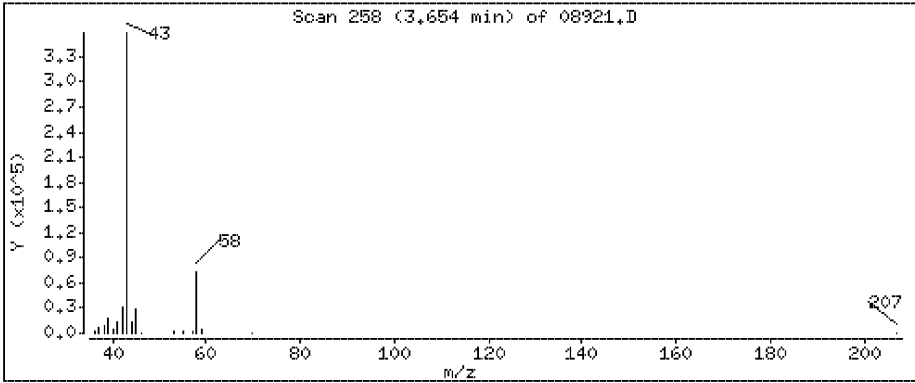
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

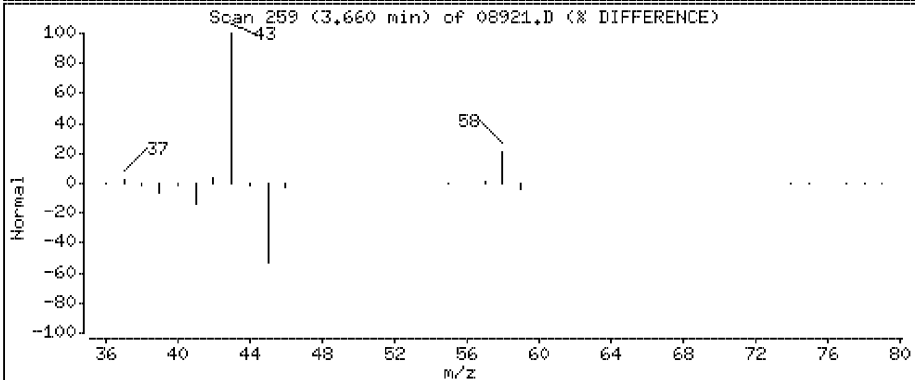
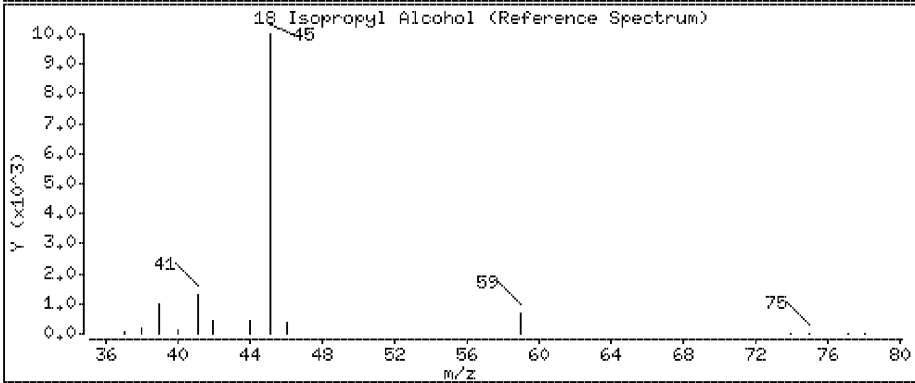
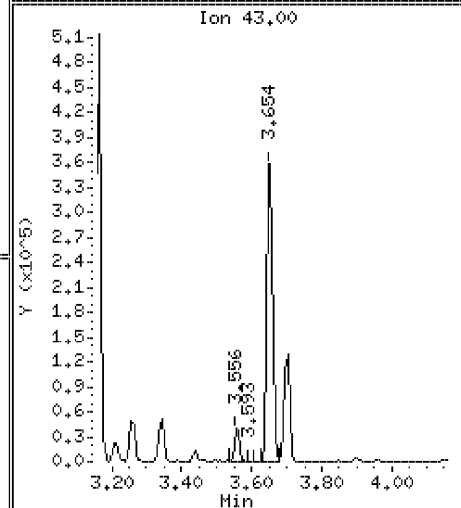
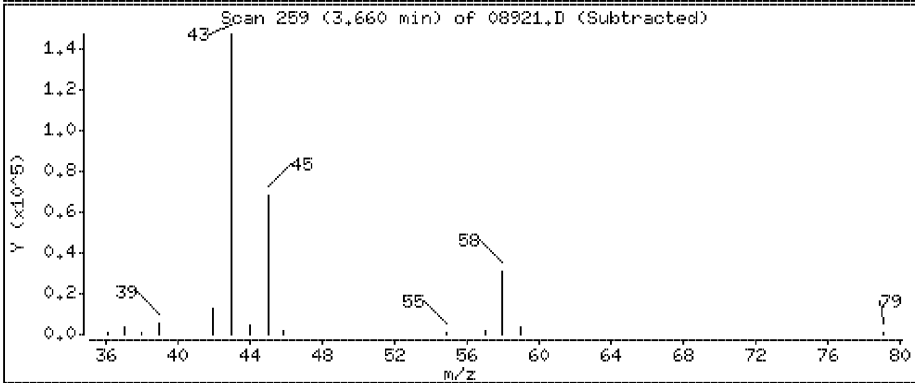
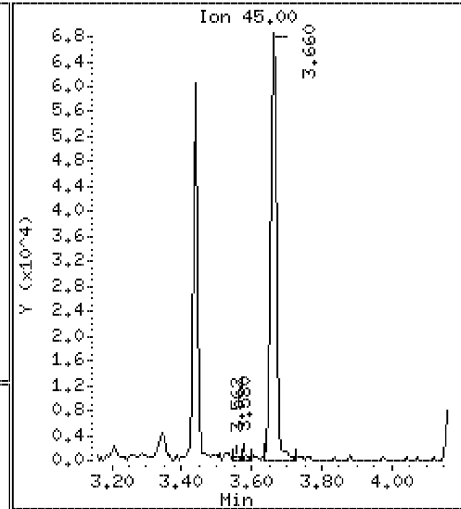
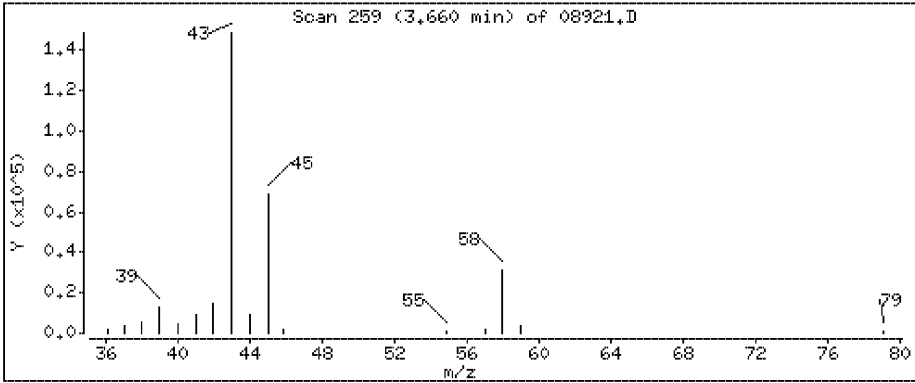
17 Acetone

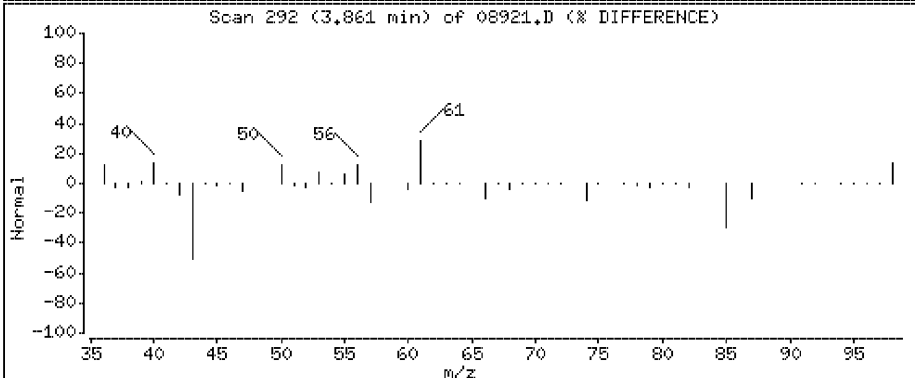
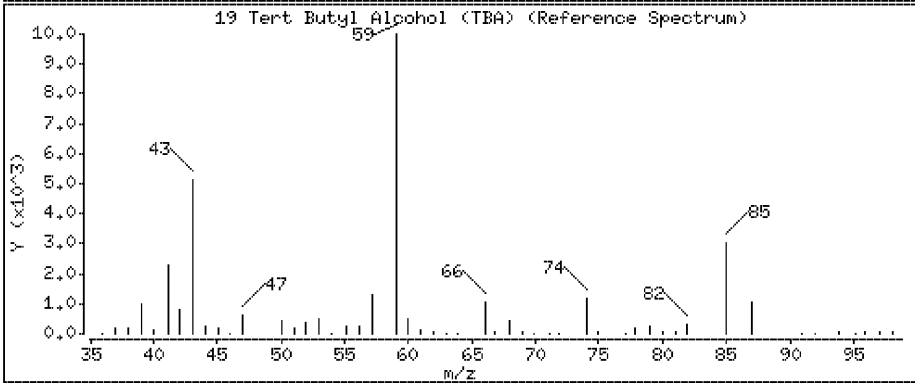
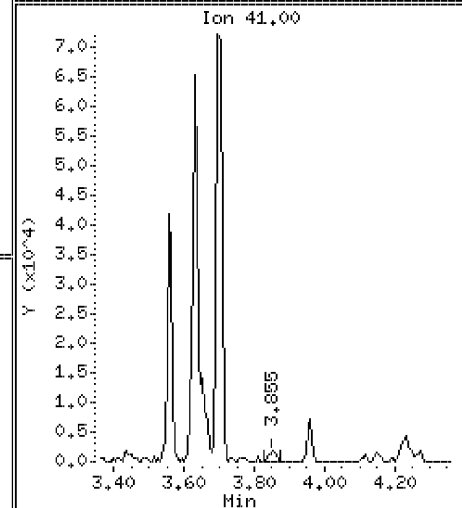
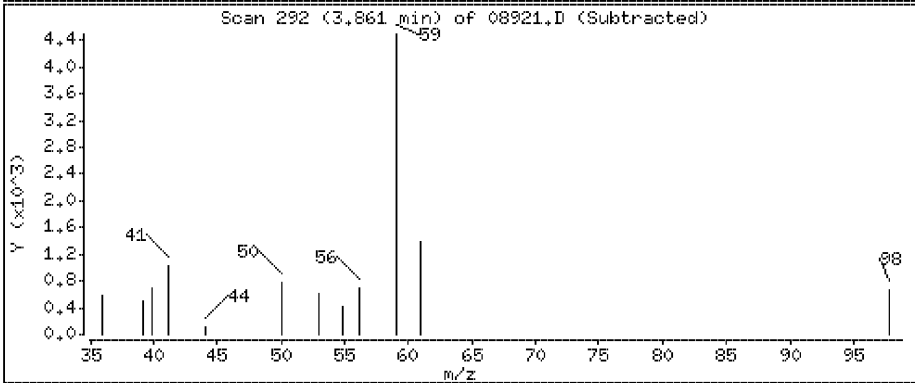
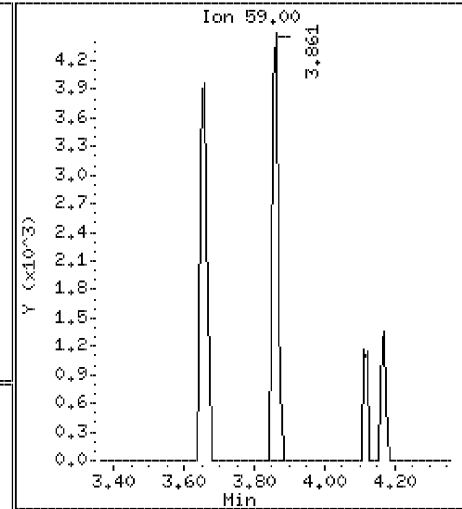
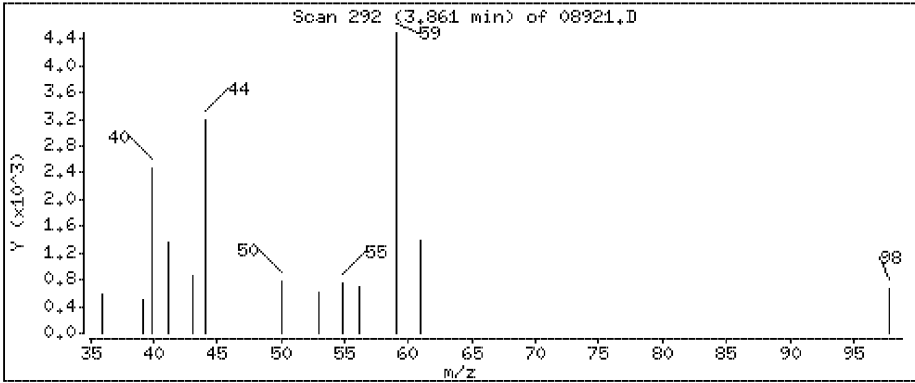
Concentration: 5.49 ppbv



18 Isopropyl Alcohol

Concentration: 1.45 ppbv





Data File: \\192.168.10.12\chem\10airI,1\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

Sample Info:

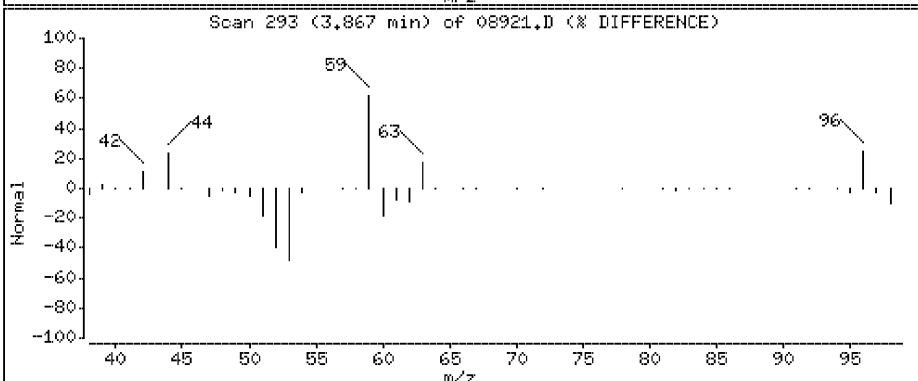
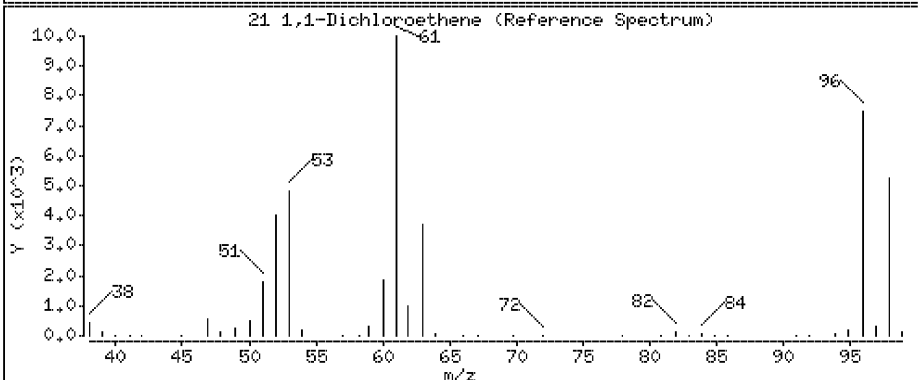
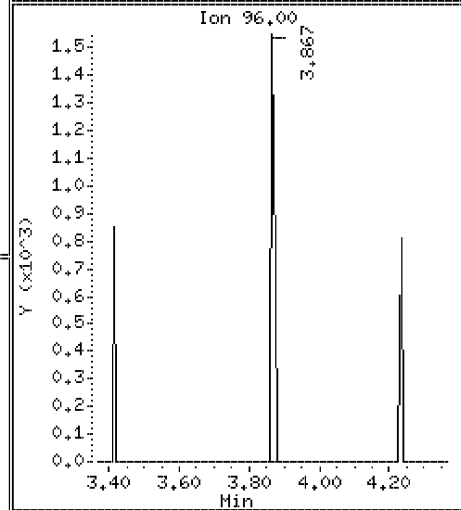
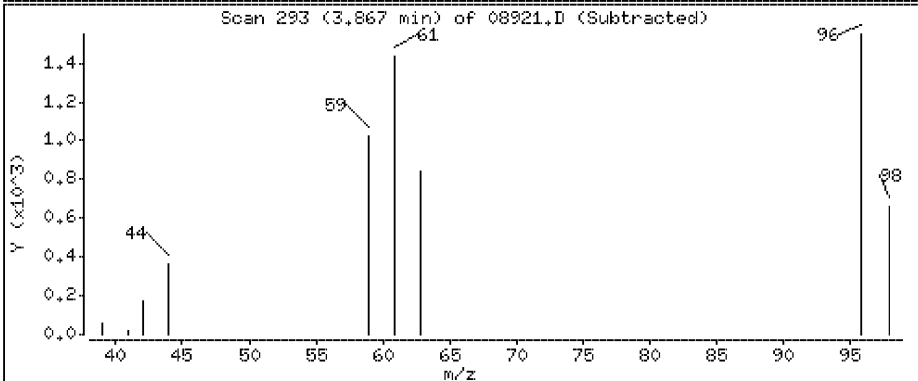
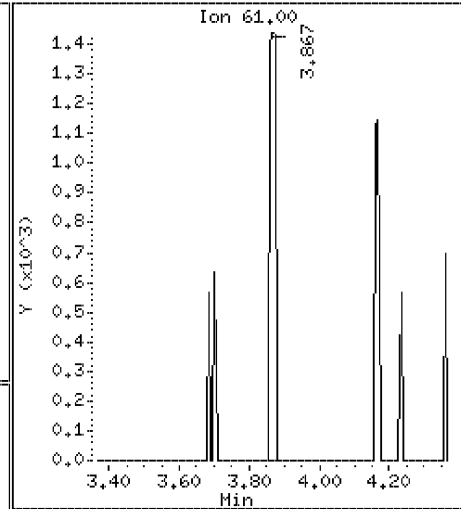
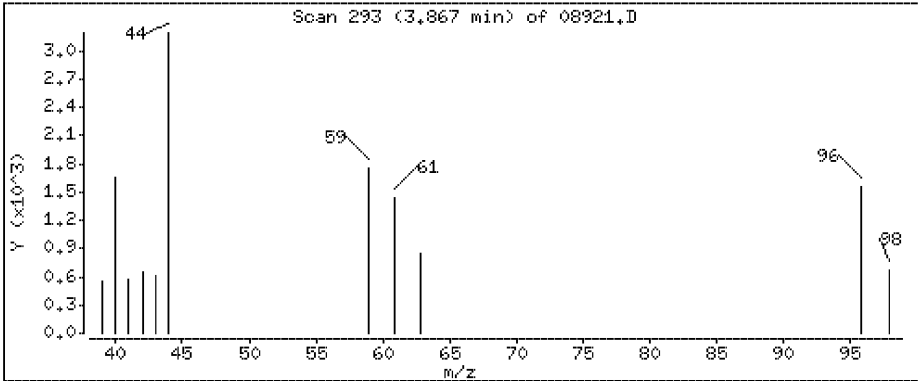
Operator: MJL

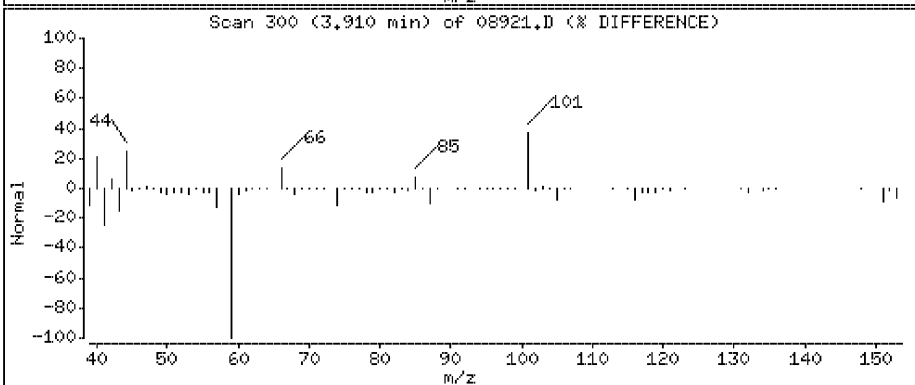
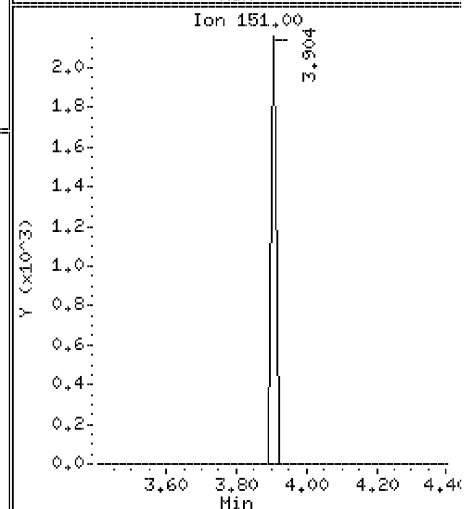
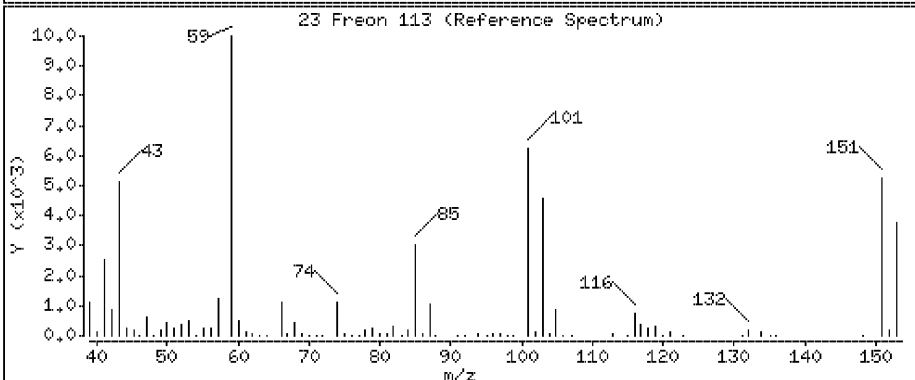
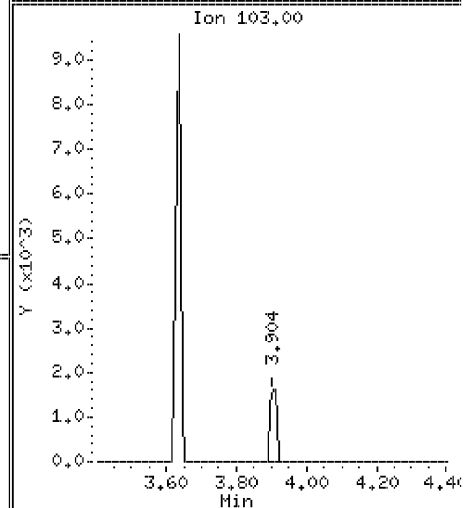
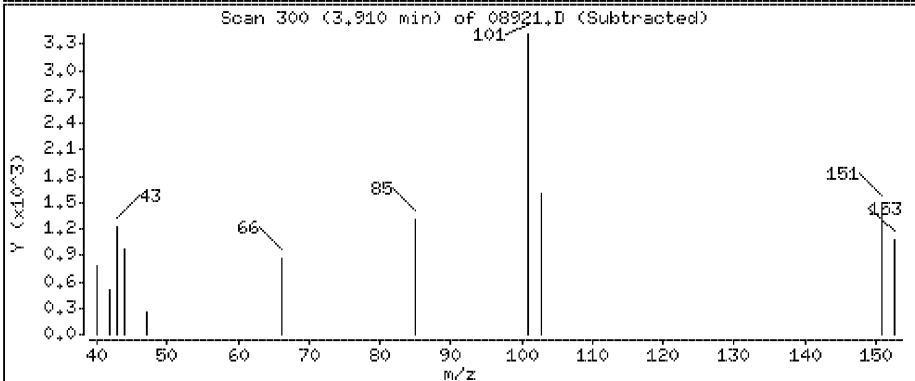
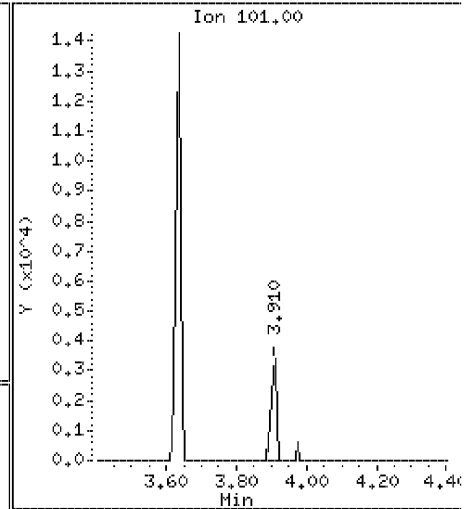
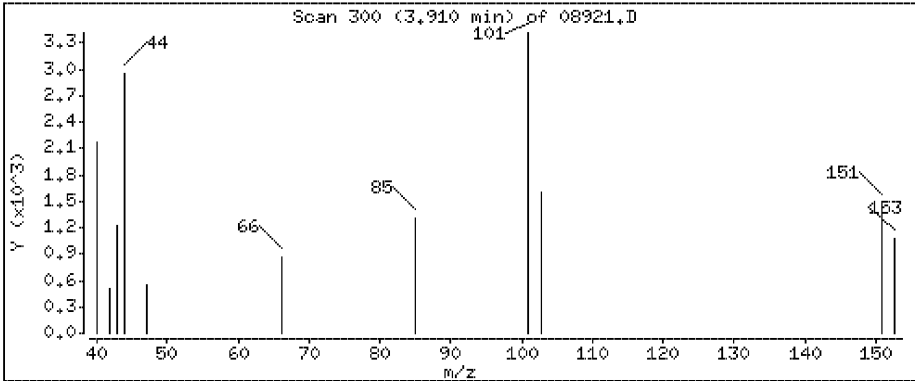
Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

21 1,1-Dichloroethene

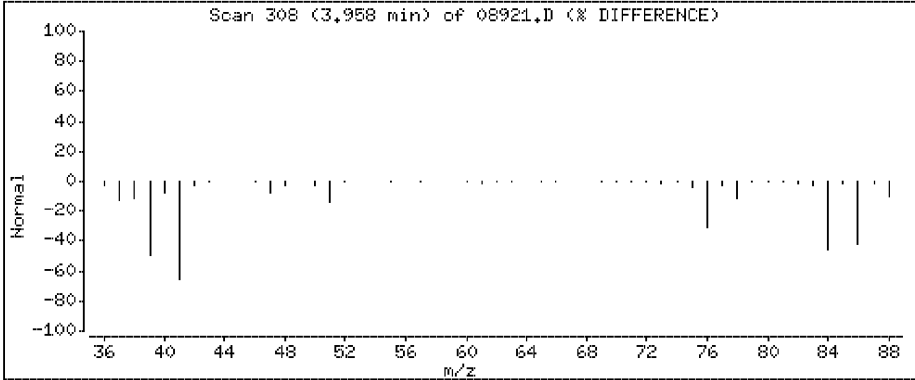
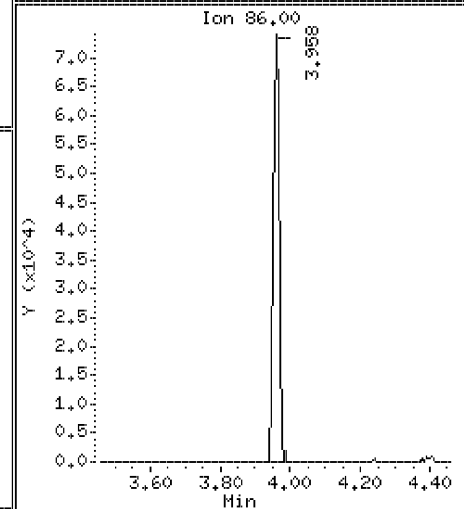
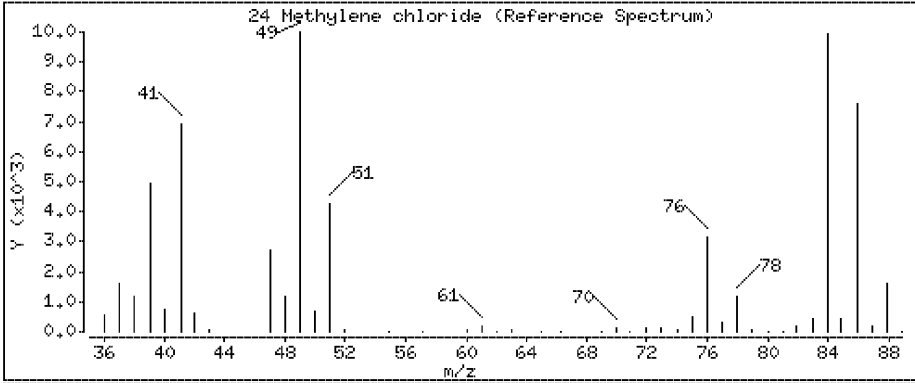
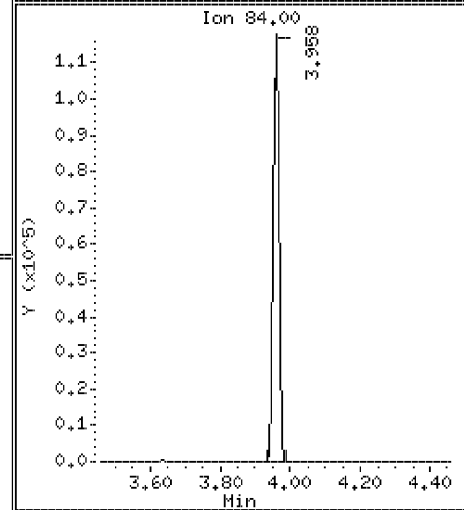
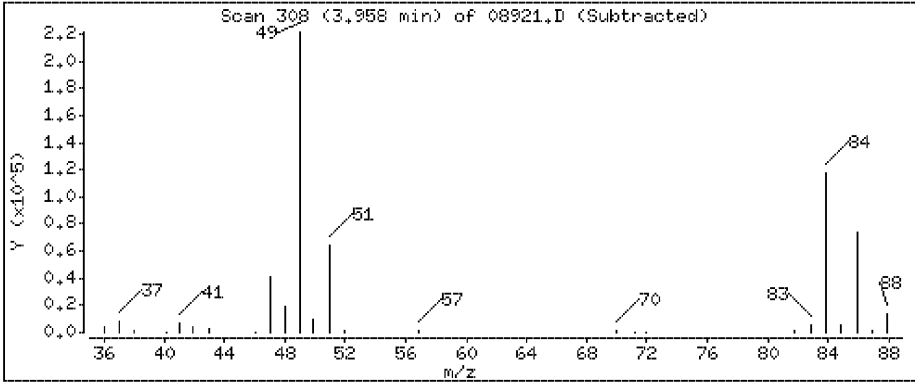
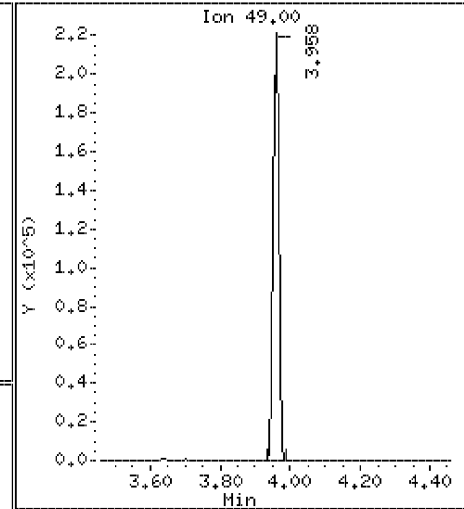
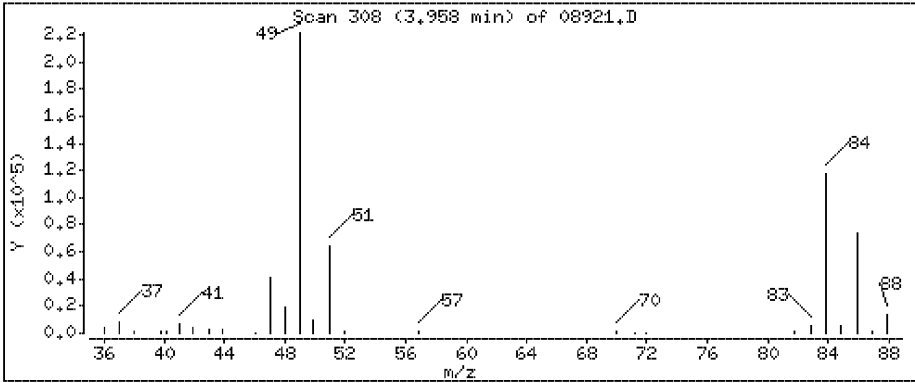
Concentration: 0.0303 ppbv





24 Methylene chloride

Concentration: 4.71 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

Sample Info:

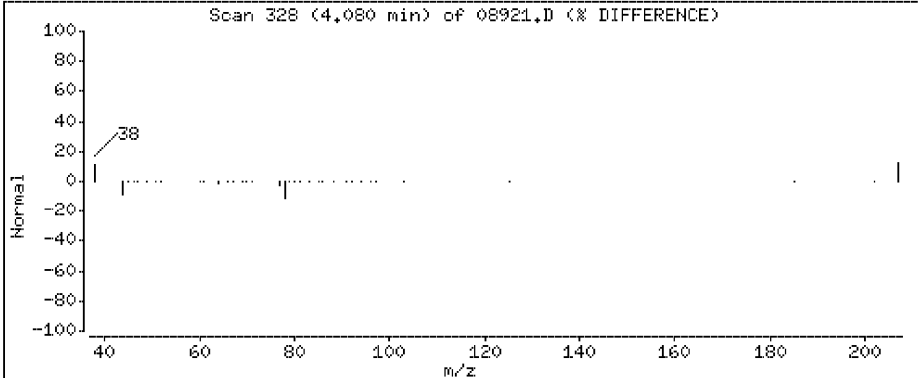
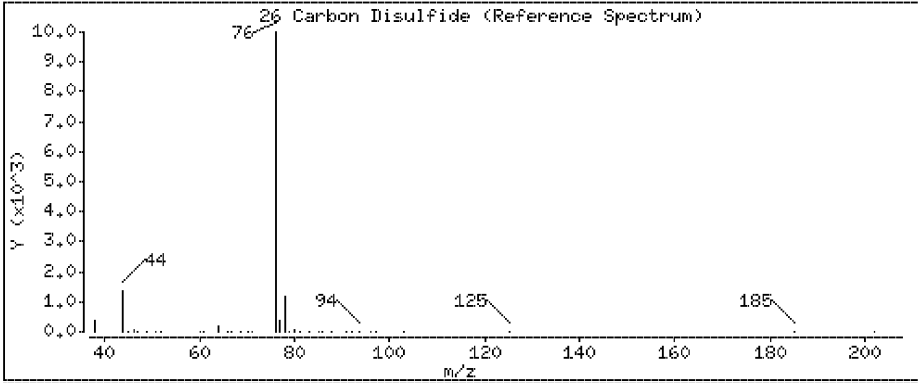
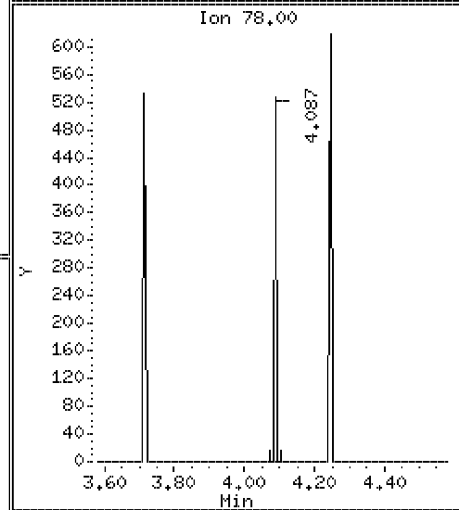
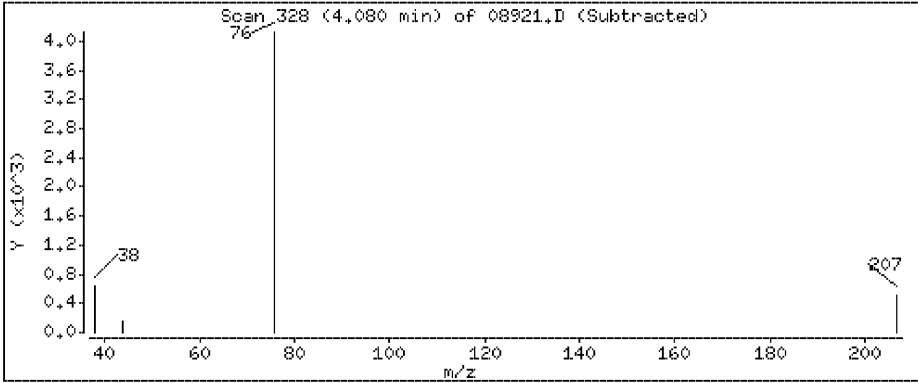
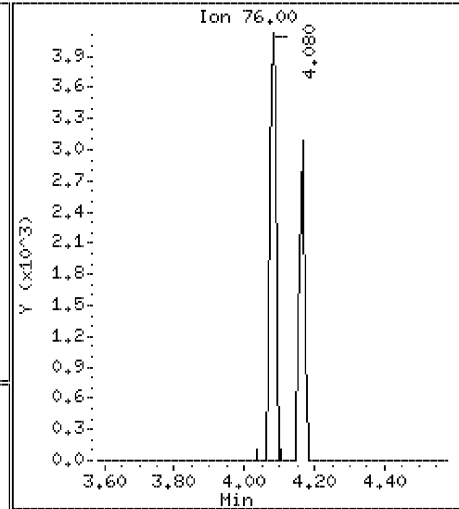
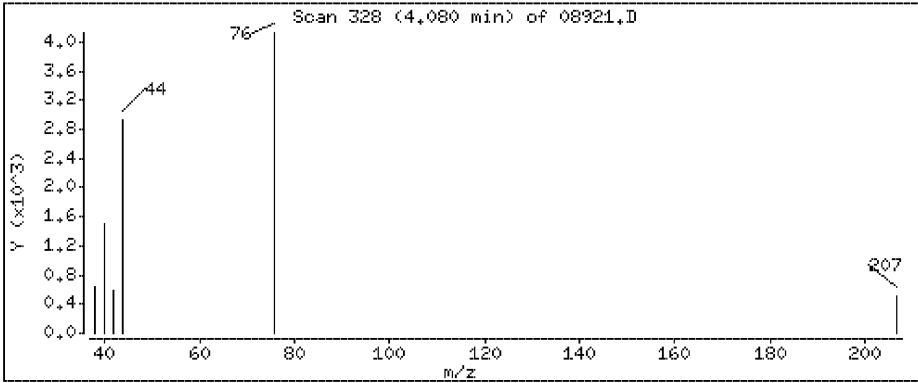
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

26 Carbon Disulfide

Concentration: 0.0617 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

Sample Info:

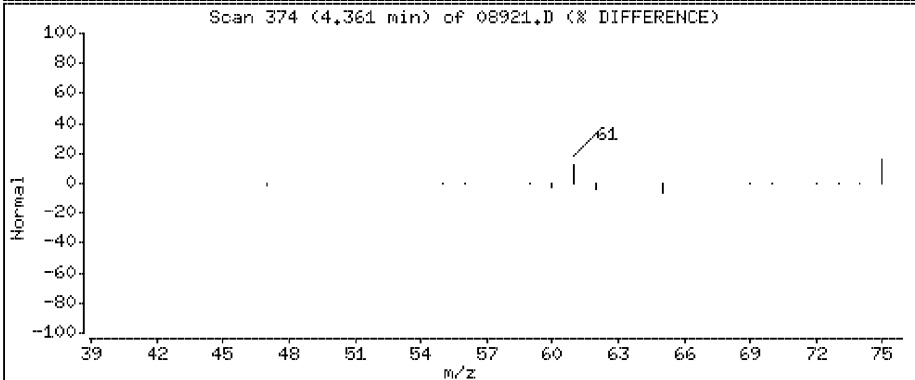
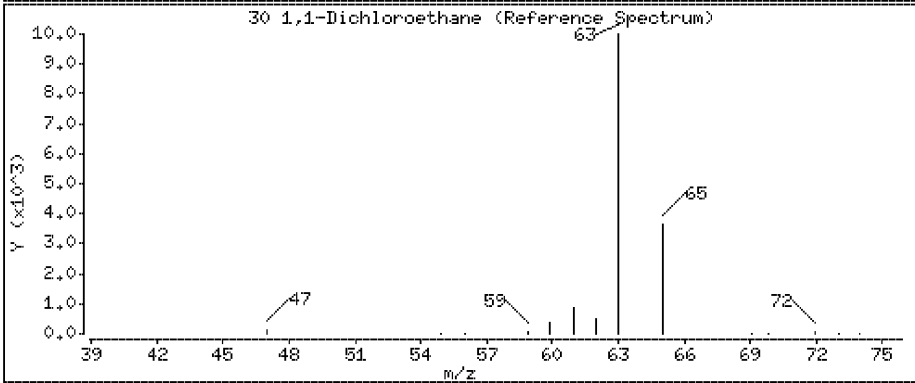
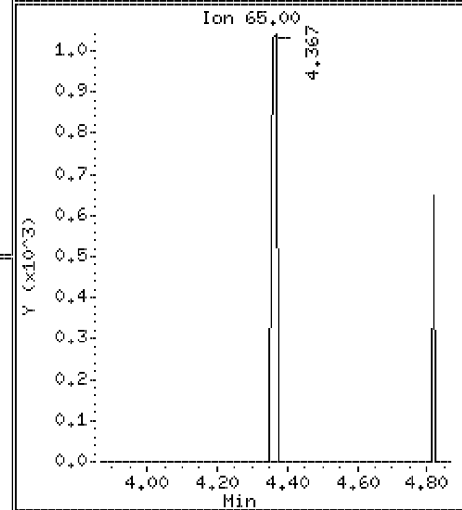
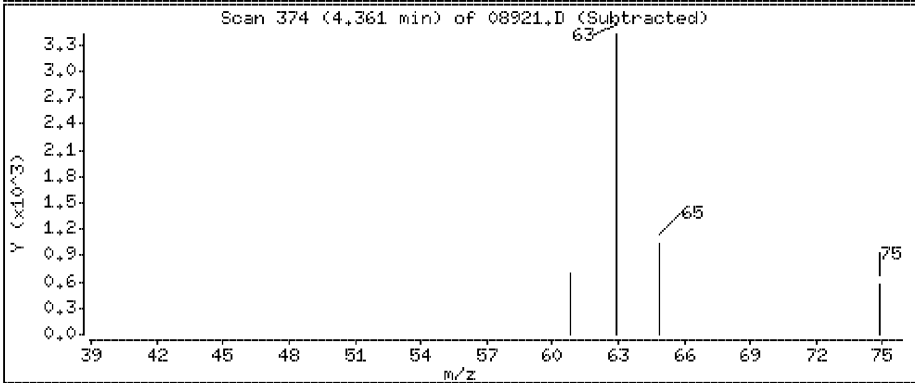
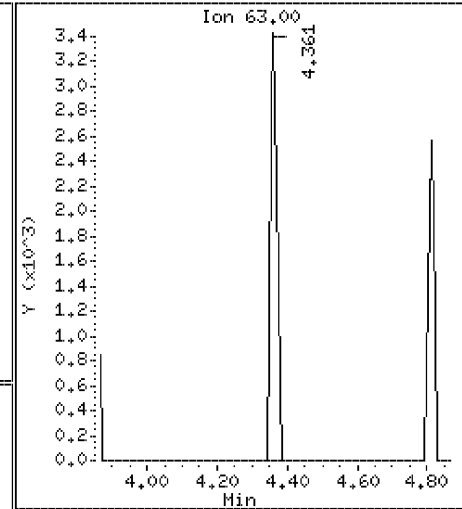
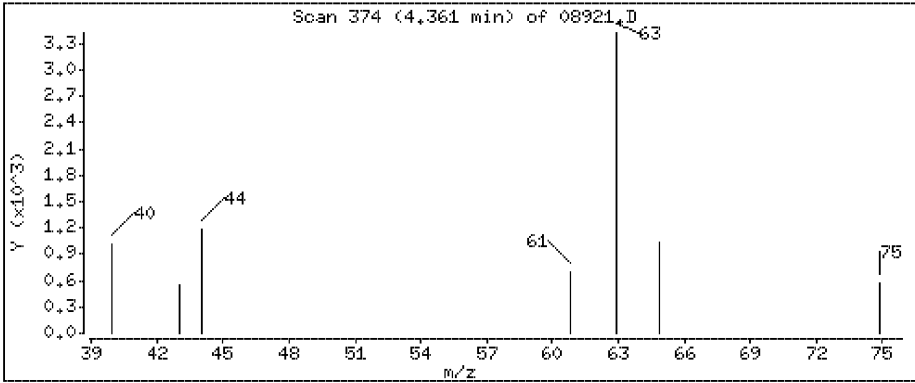
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

30 1,1-Dichloroethane

Concentration: 0.0774 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

Sample Info:

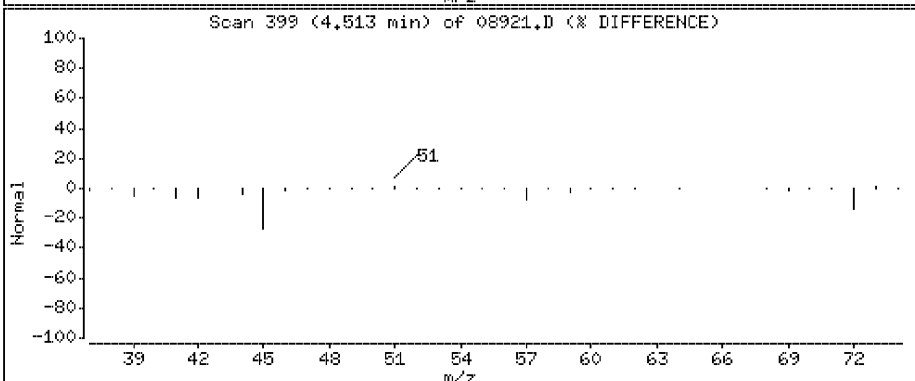
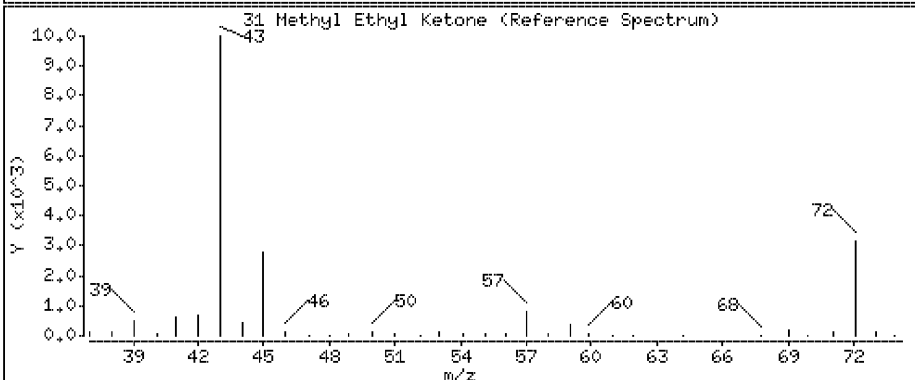
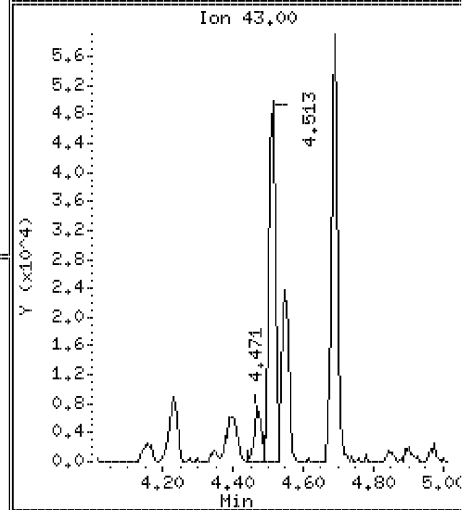
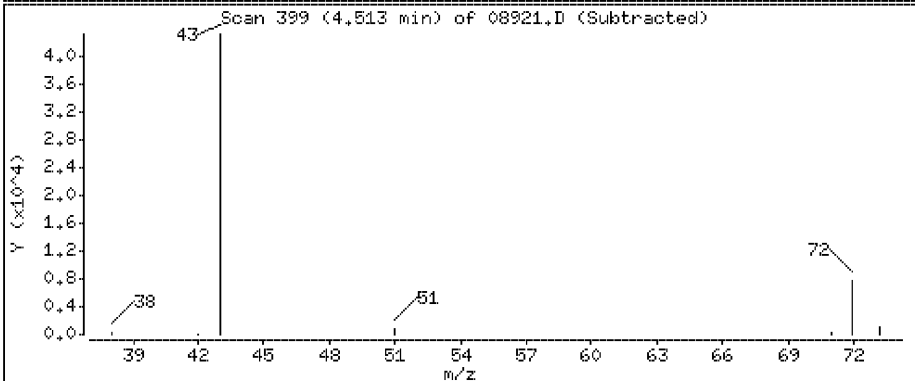
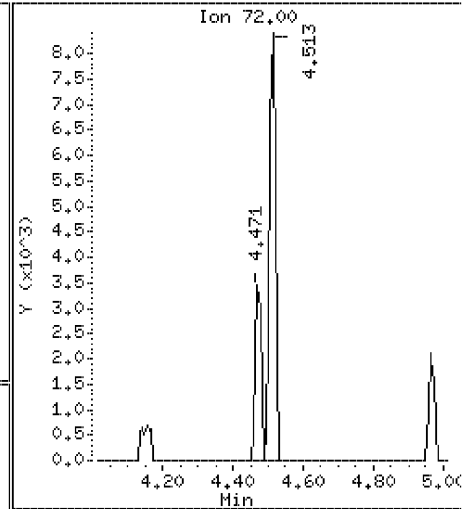
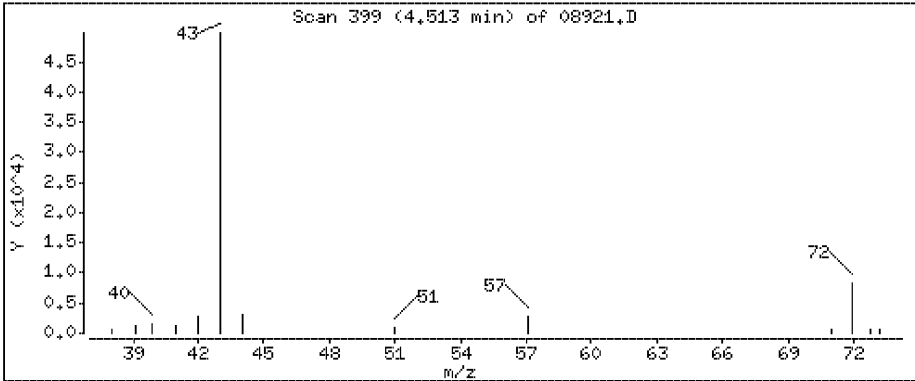
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

31 Methyl Ethyl Ketone

Concentration: 0.560 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

Sample Info:

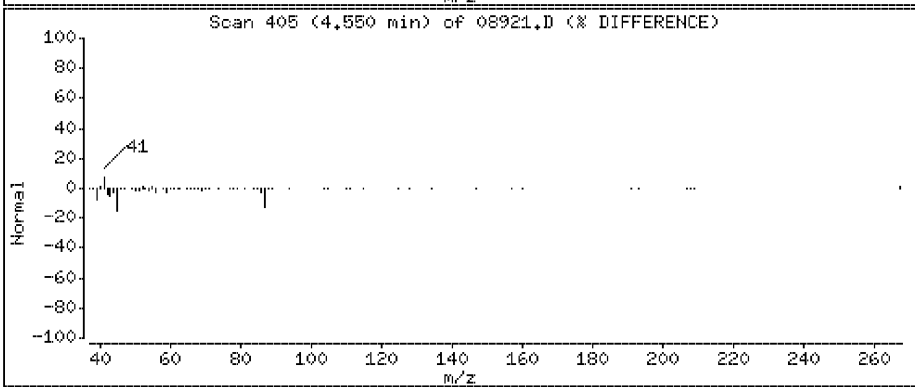
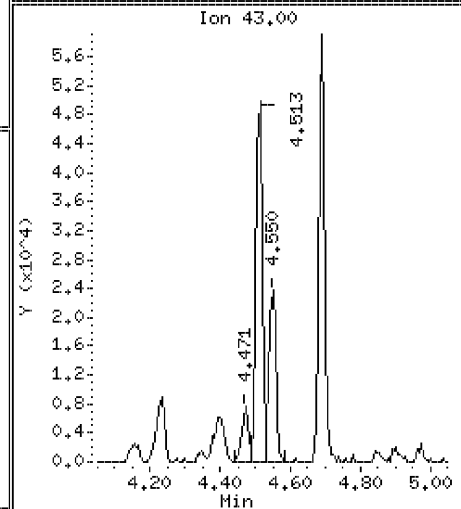
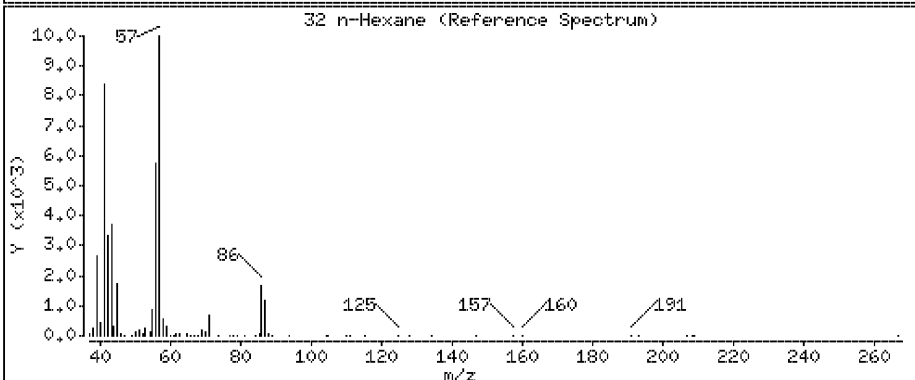
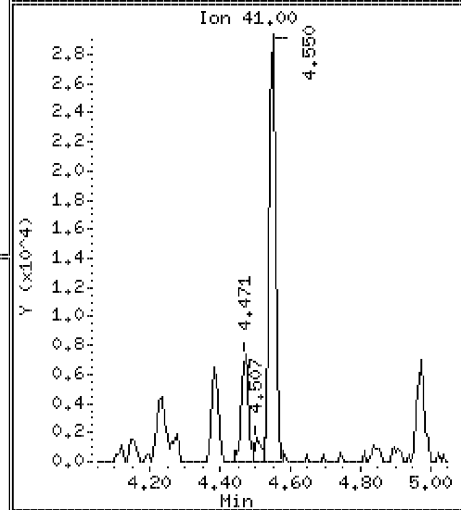
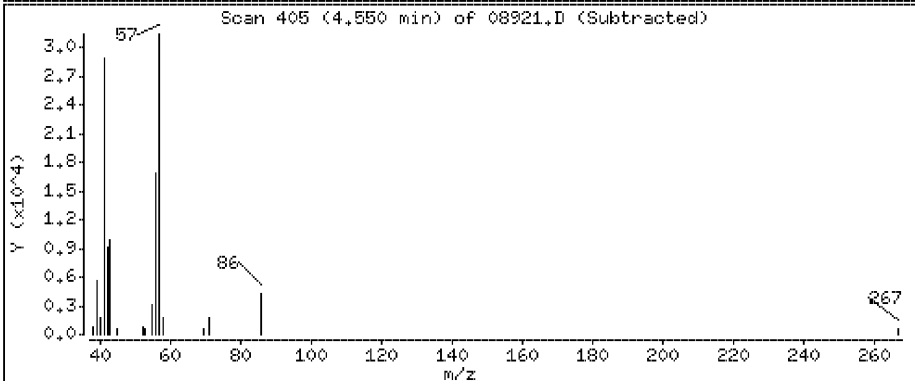
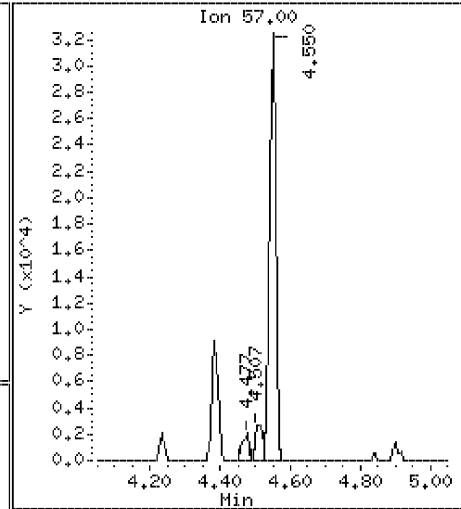
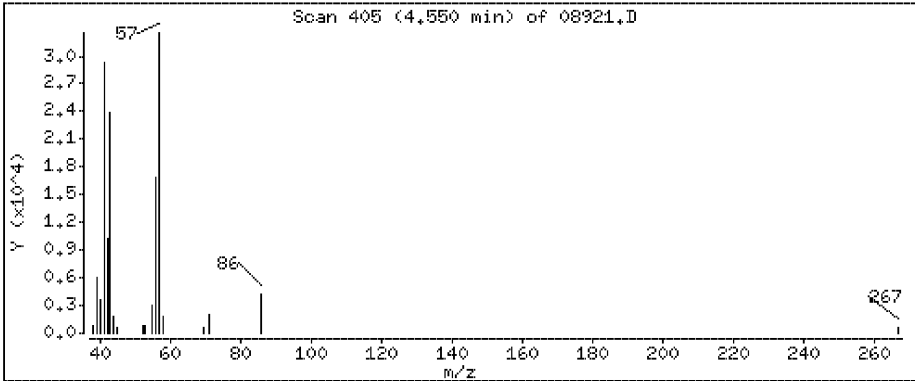
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

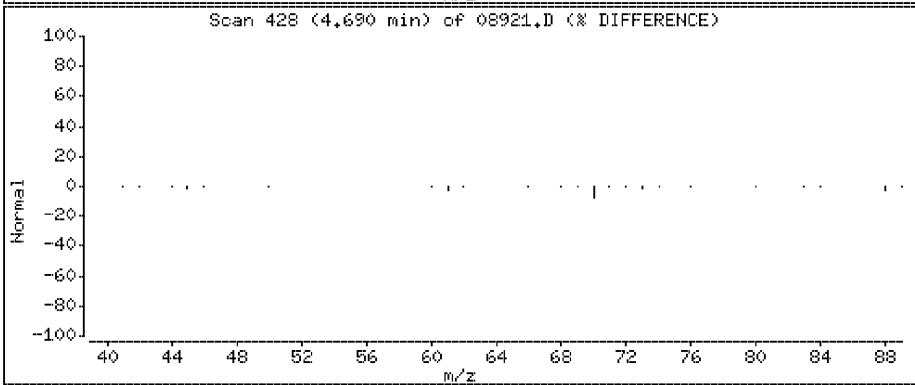
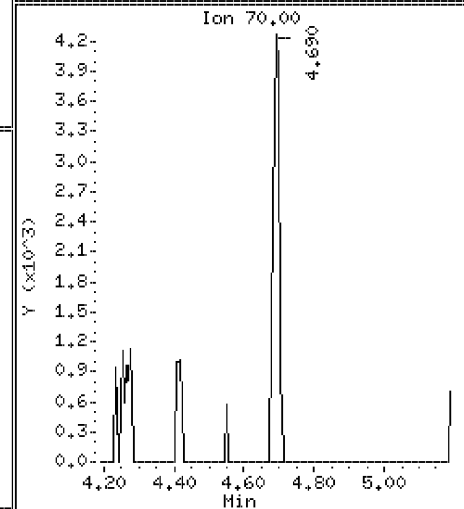
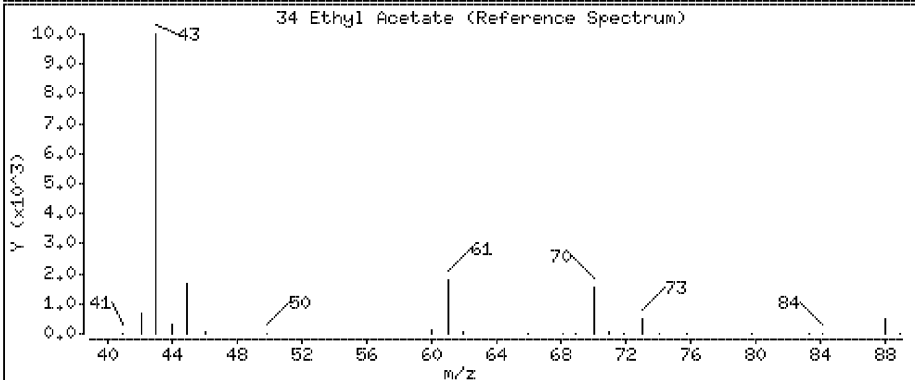
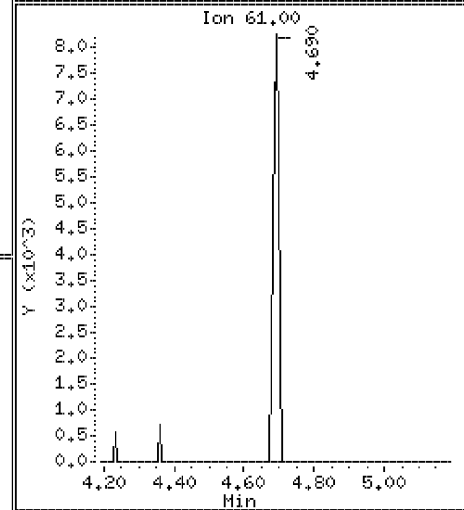
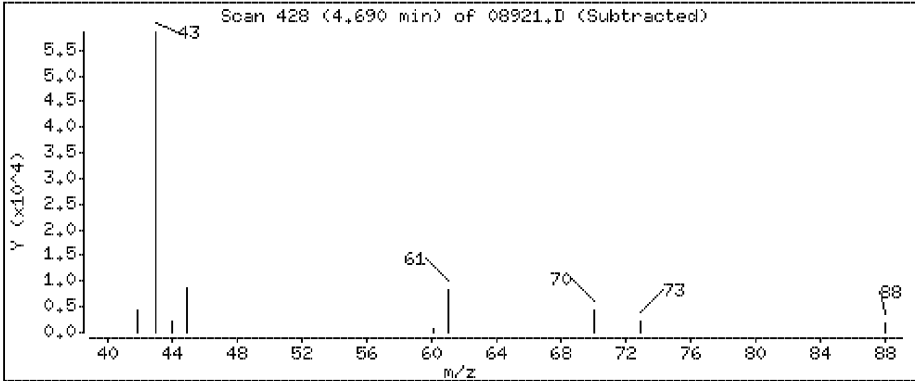
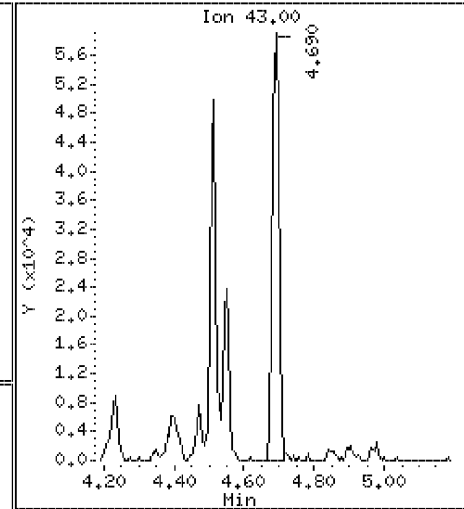
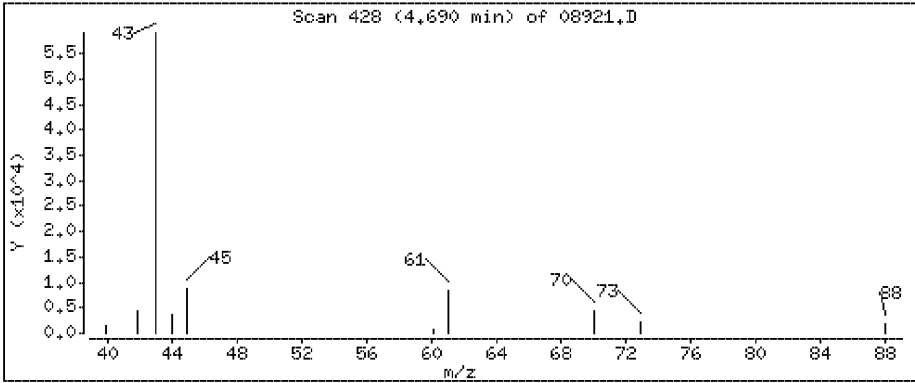
32 n-Hexane

Concentration: 0.716 ppbv



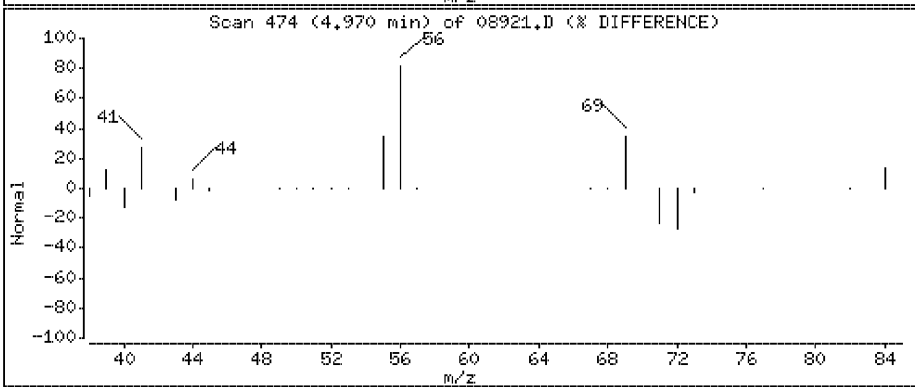
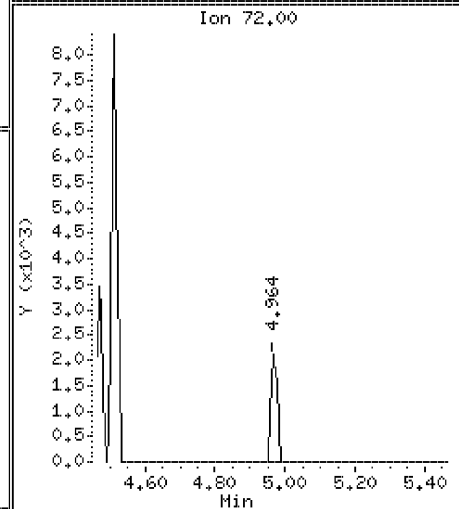
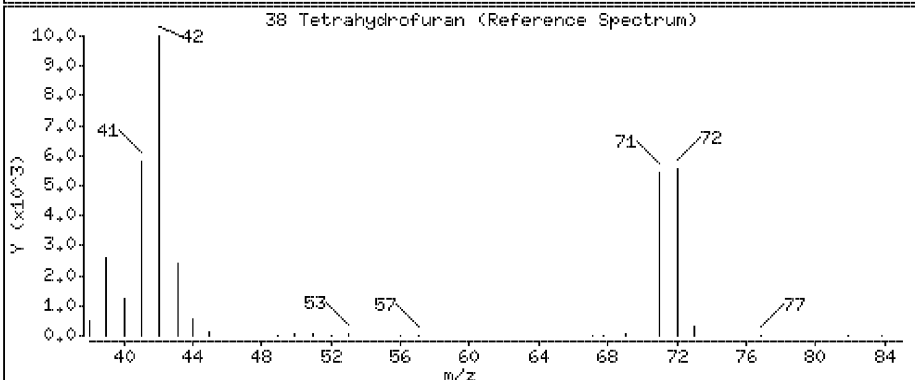
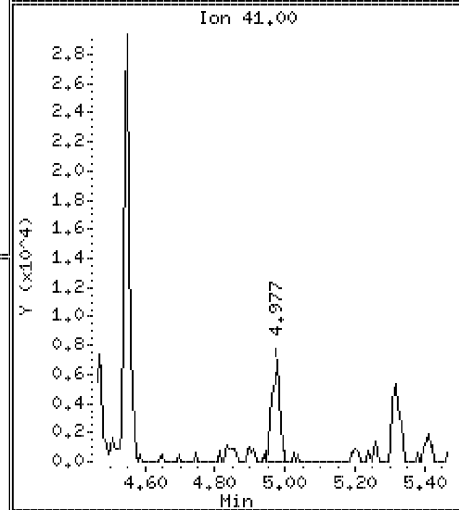
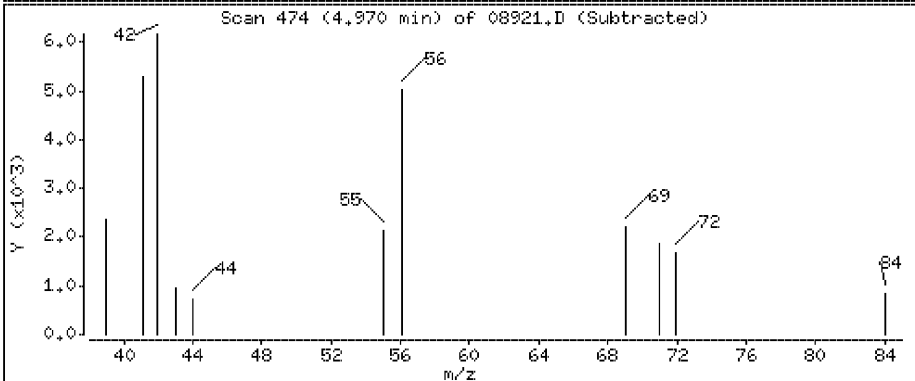
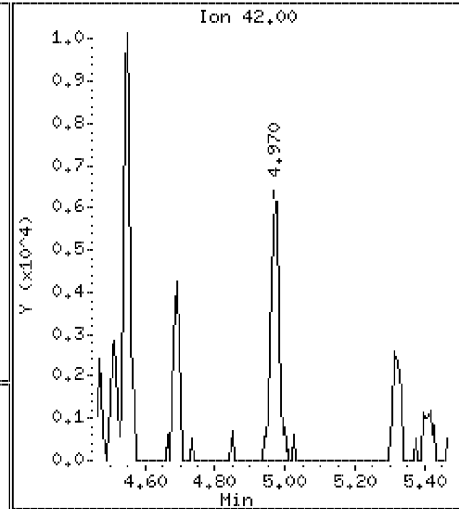
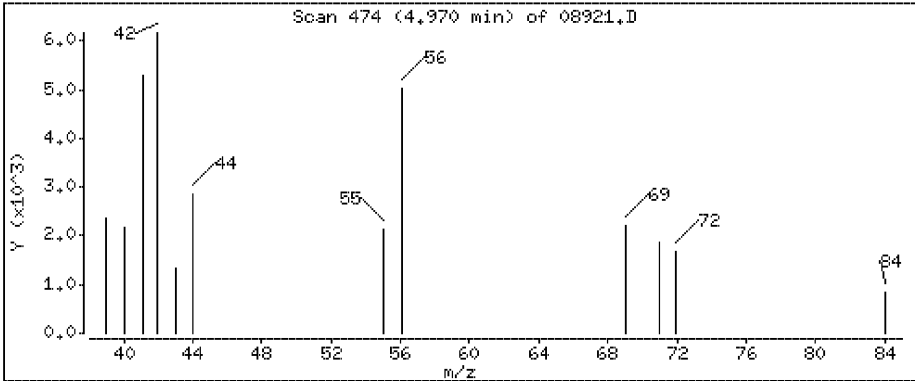
34 Ethyl Acetate

Concentration: 0.786 ppbv



38 Tetrahydrofuran

Concentration: 0,255 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

Sample Info:

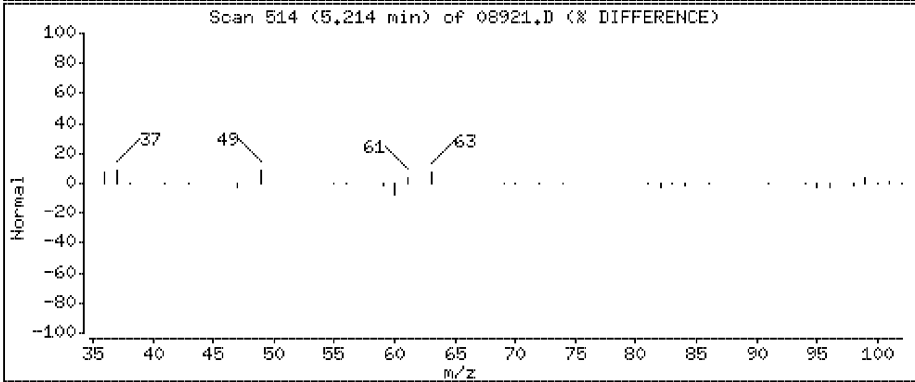
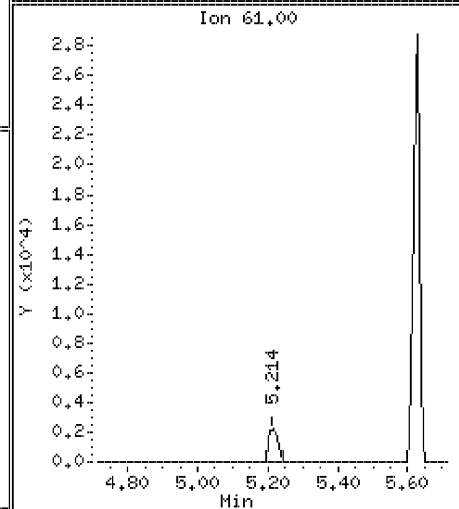
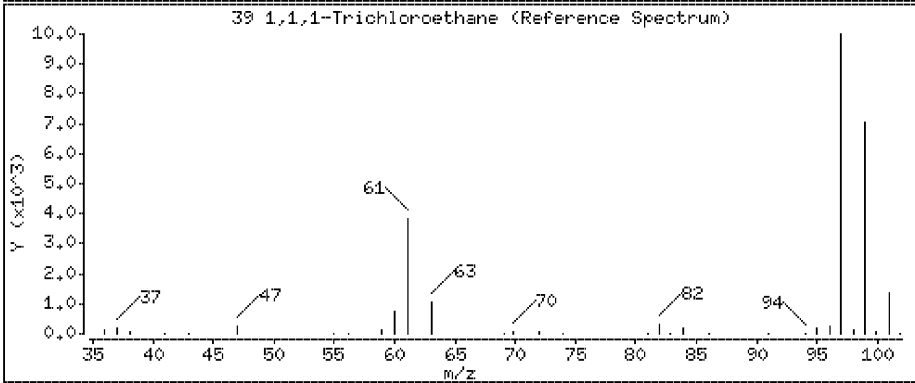
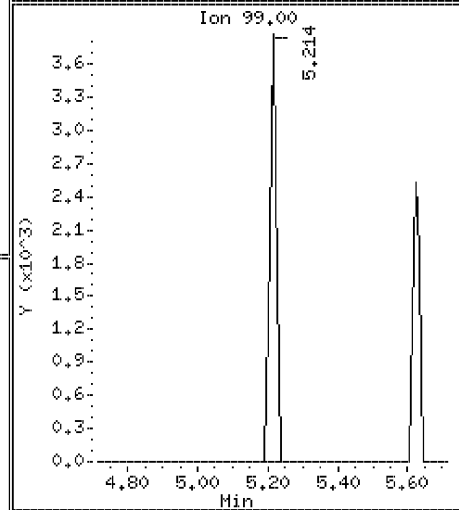
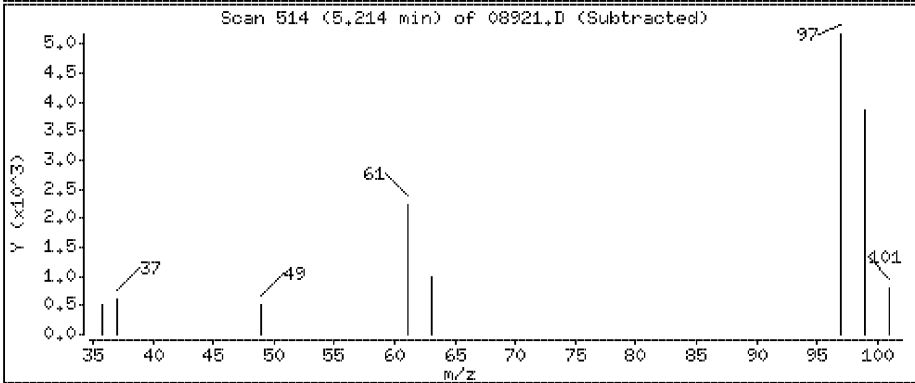
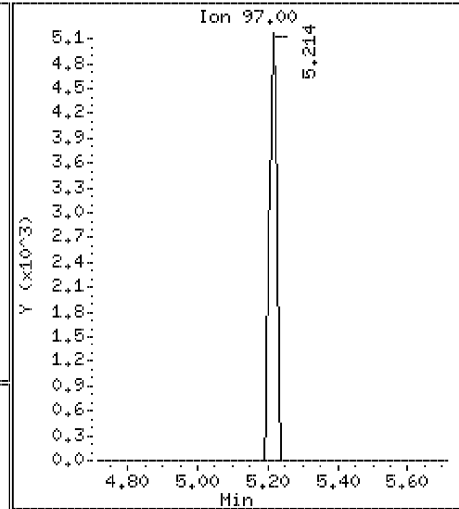
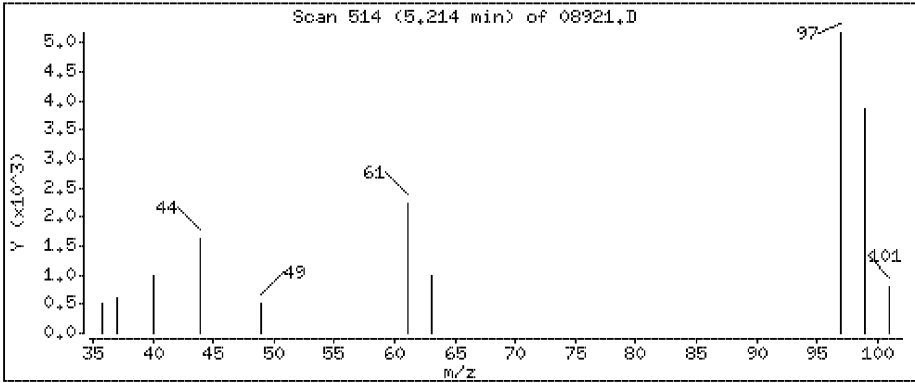
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

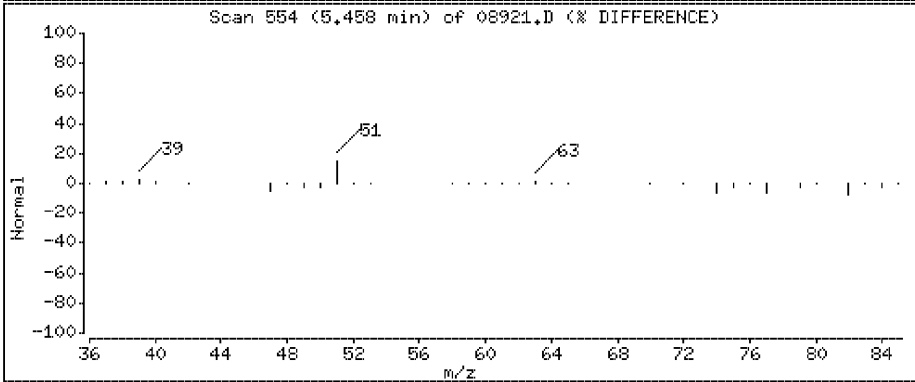
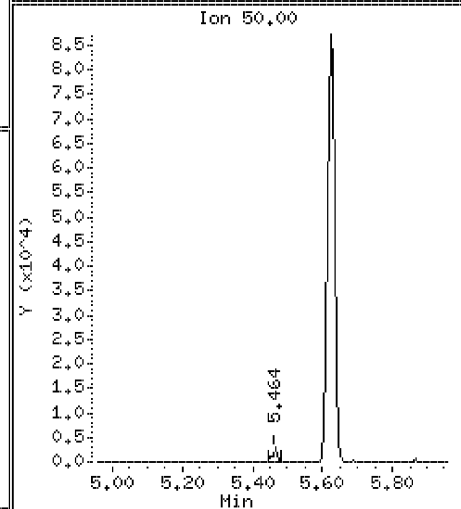
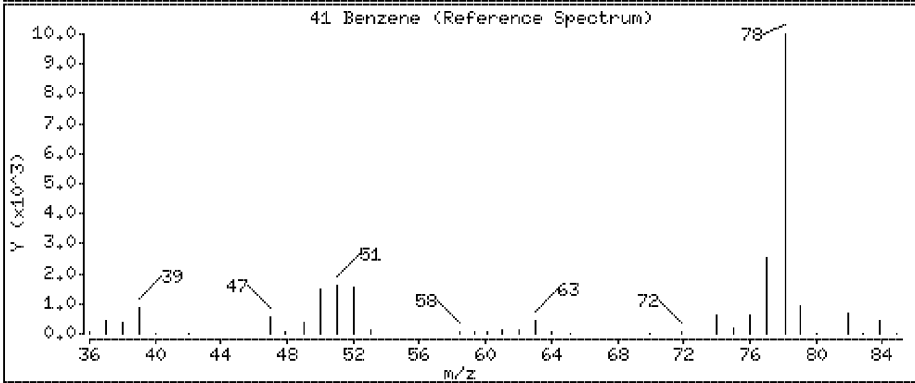
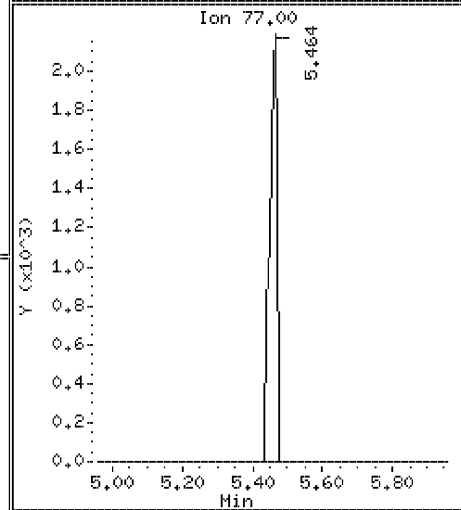
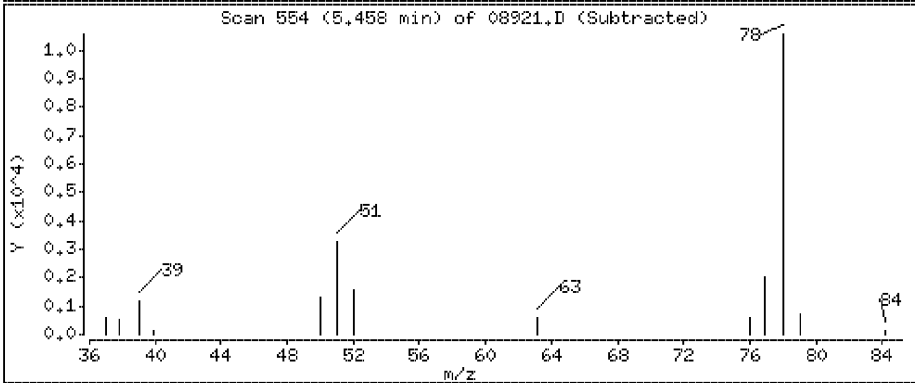
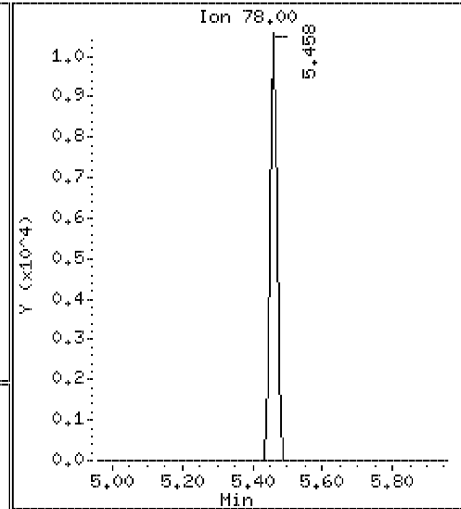
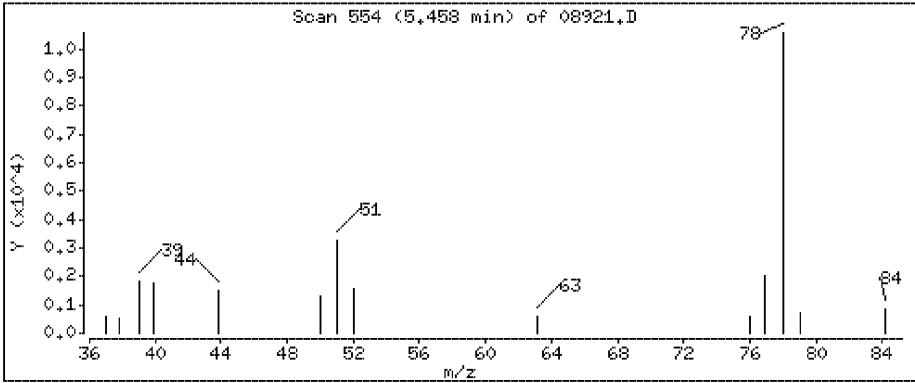
39 1,1,1-Trichloroethane

Concentration: 0,109 ppbv



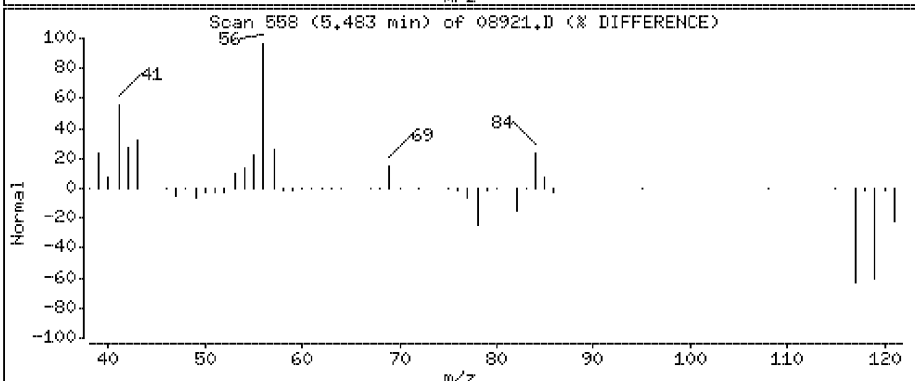
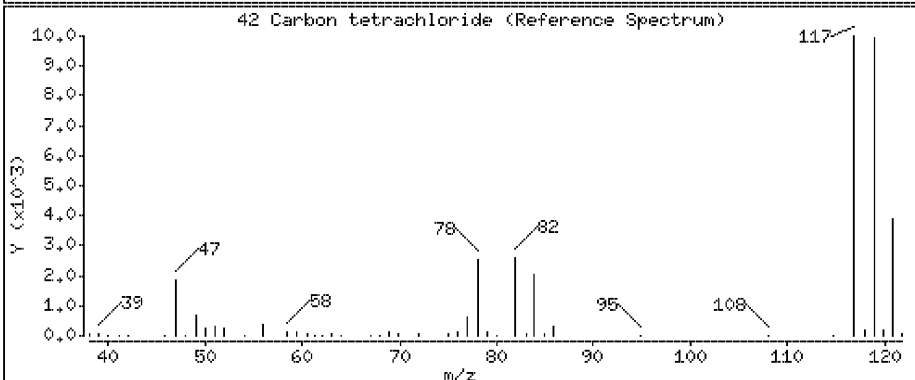
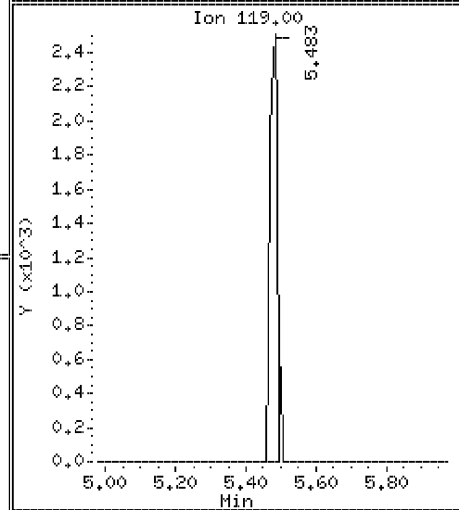
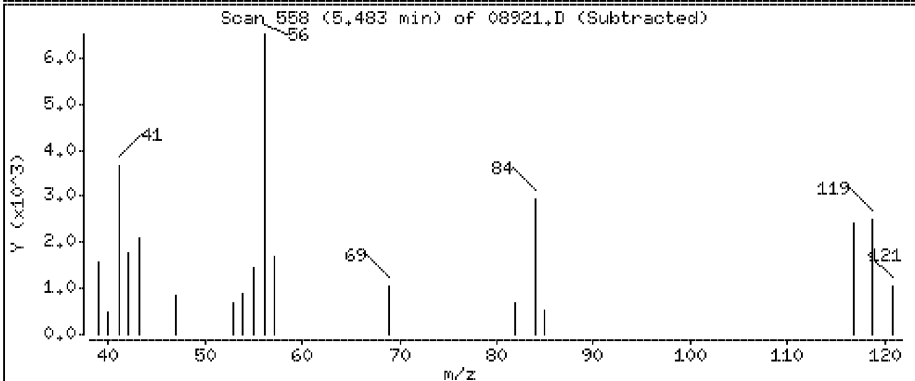
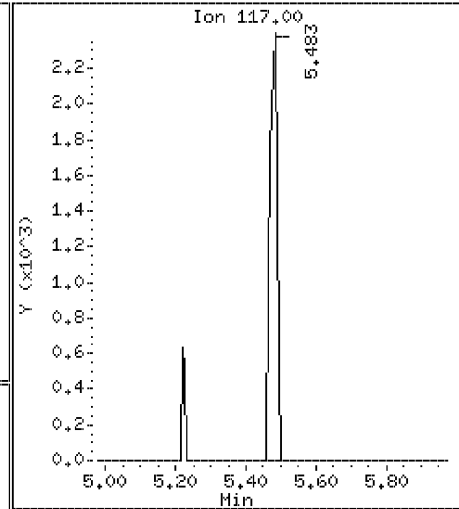
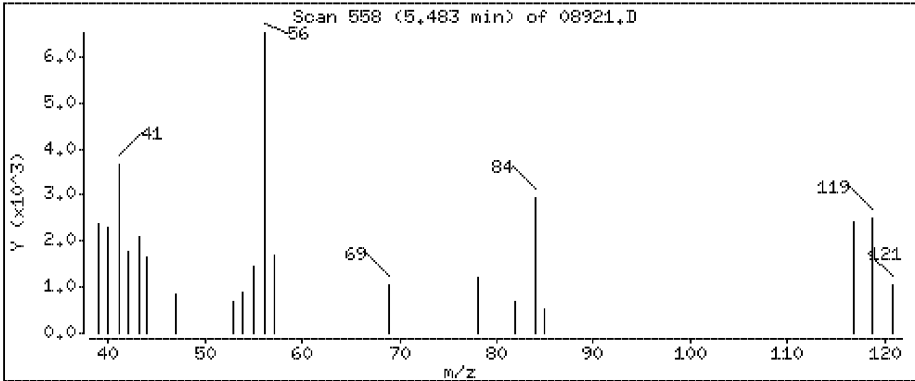
41 Benzene

Concentration: 0,162 ppbv



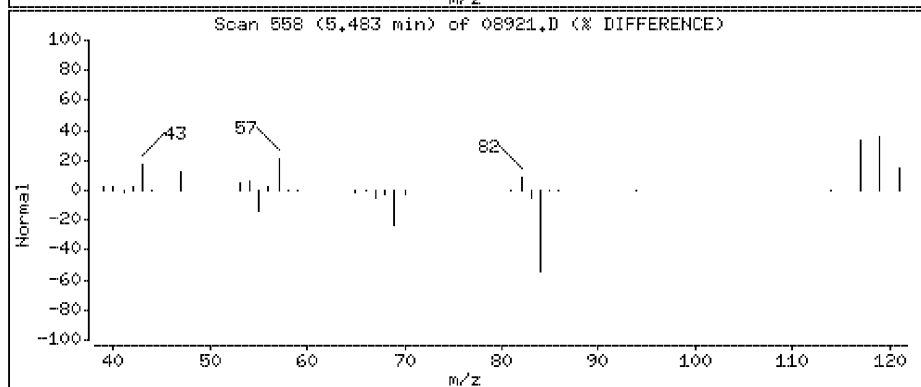
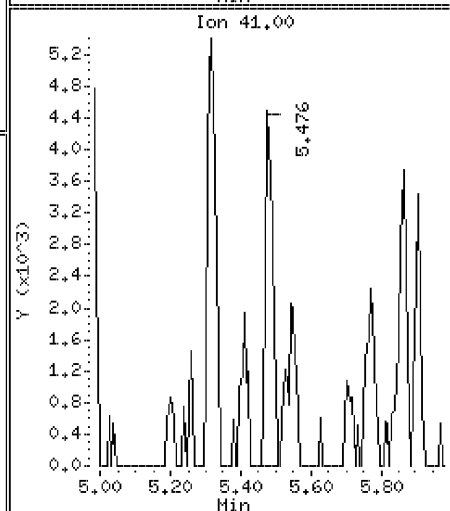
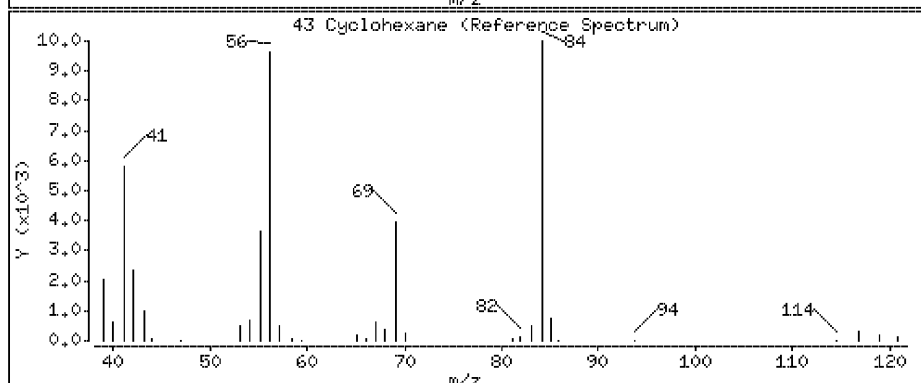
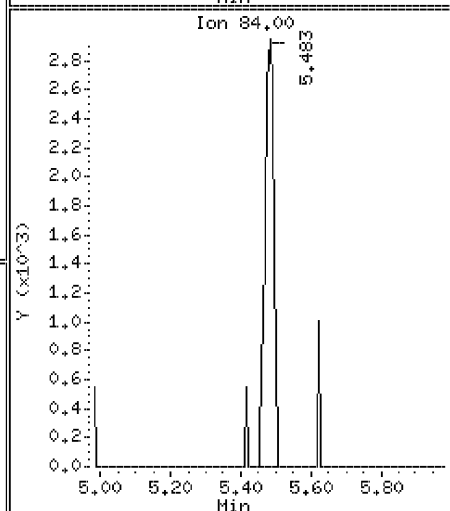
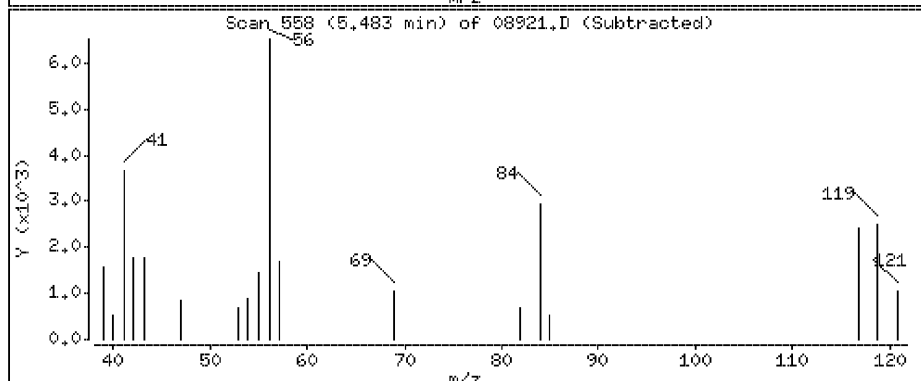
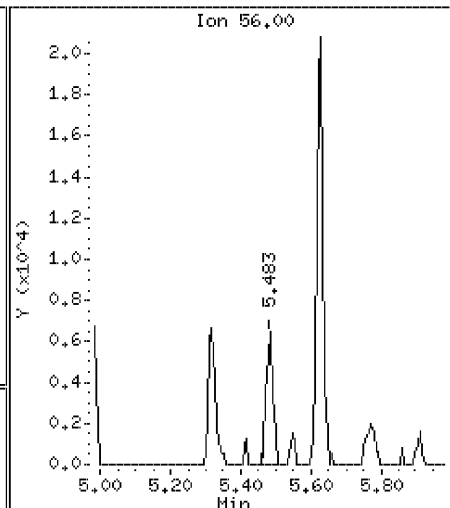
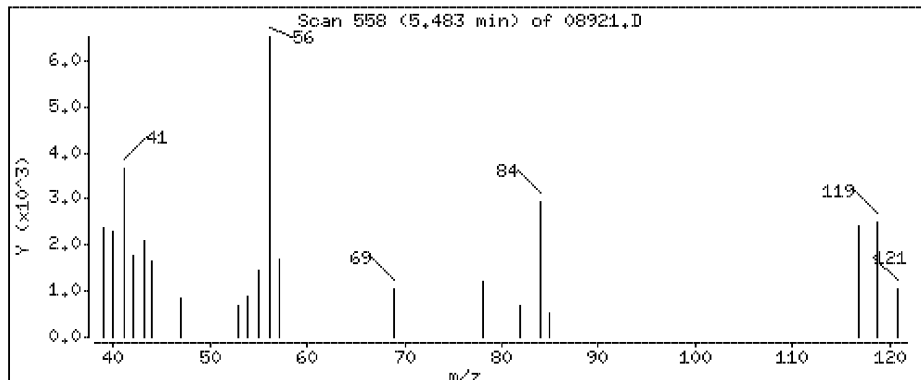
42 Carbon tetrachloride

Concentration: 0.0539 ppbv



43 Cyclohexane

Concentration: 0,155 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

Sample Info:

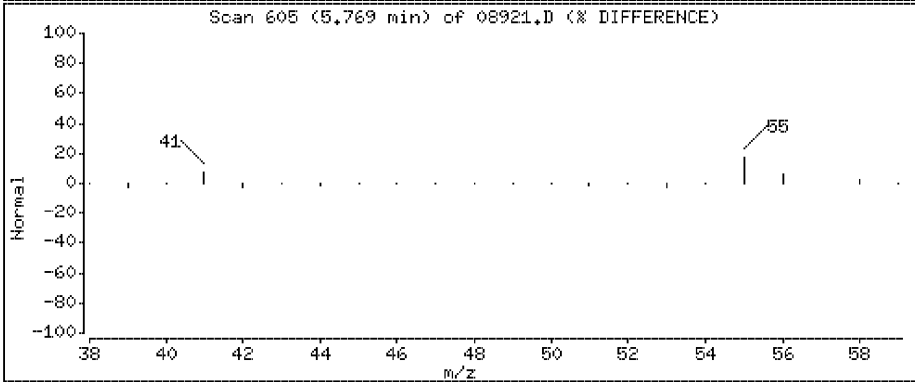
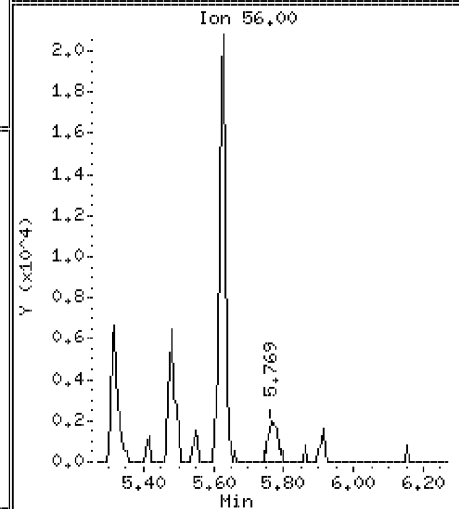
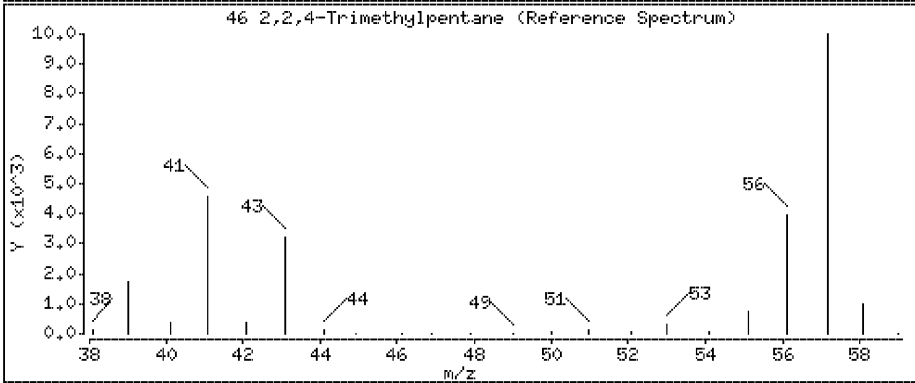
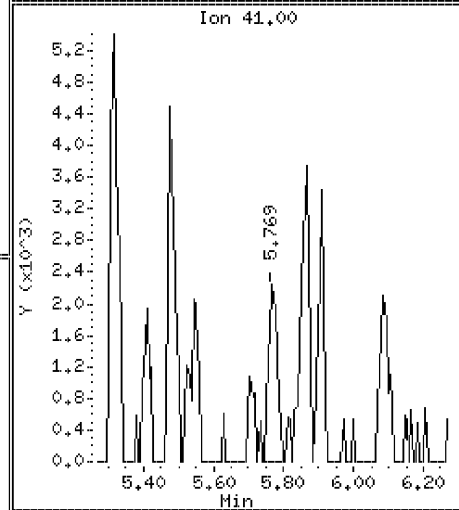
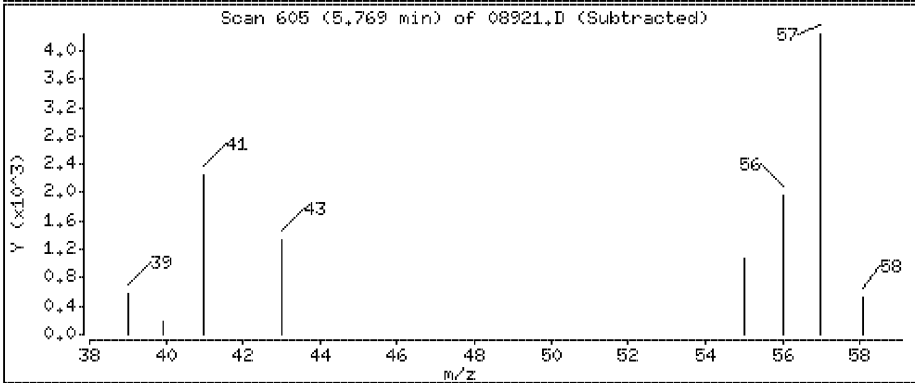
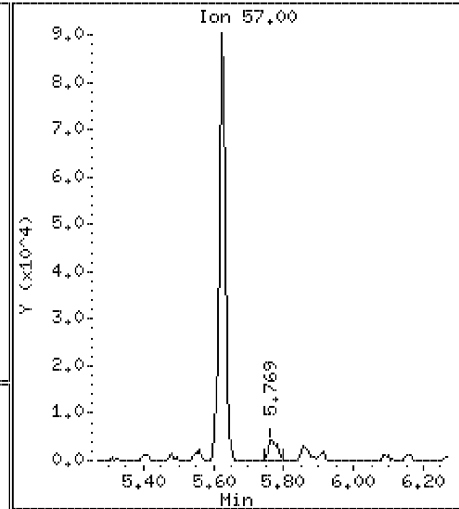
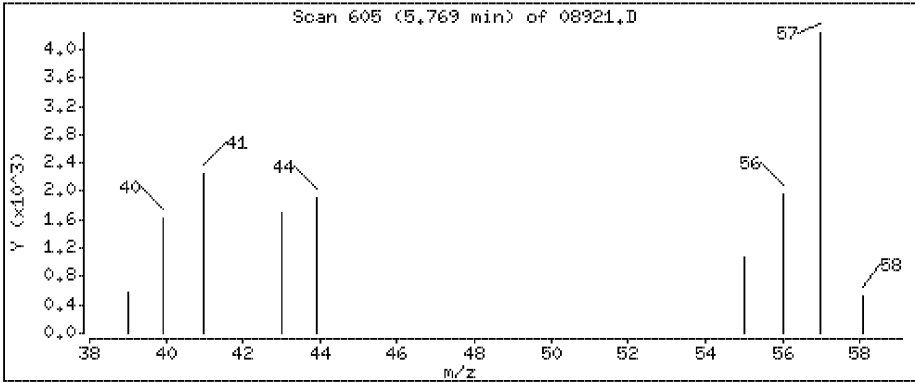
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

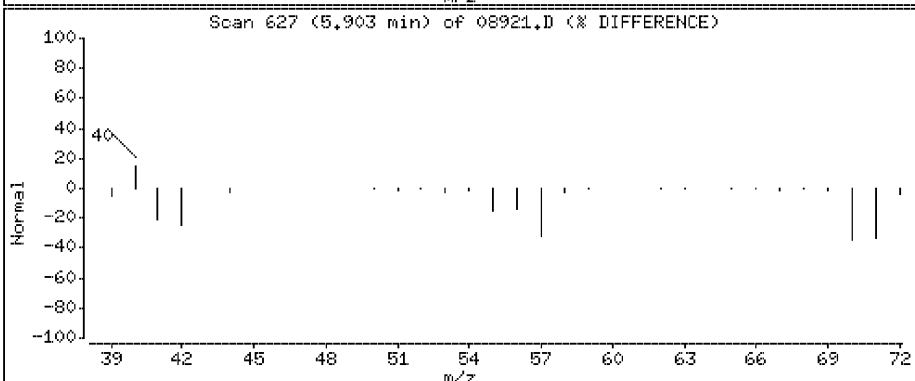
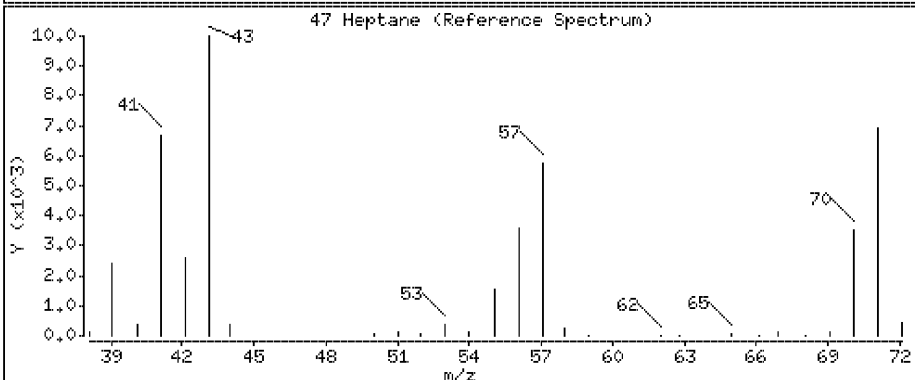
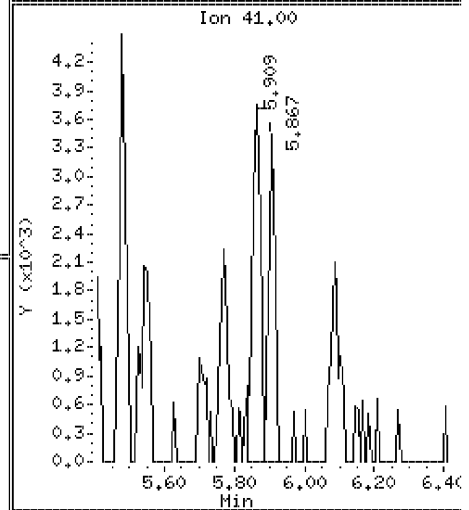
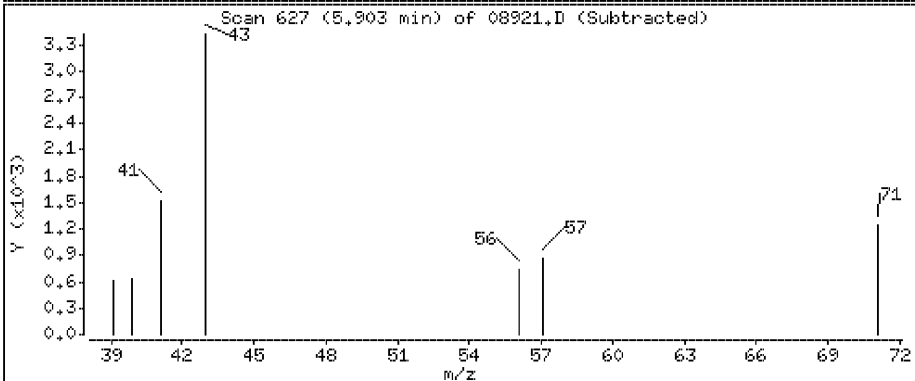
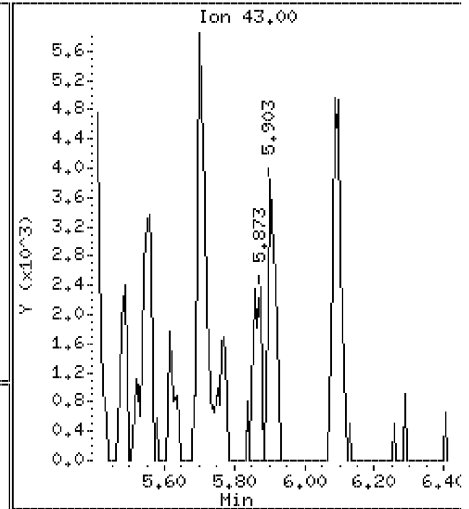
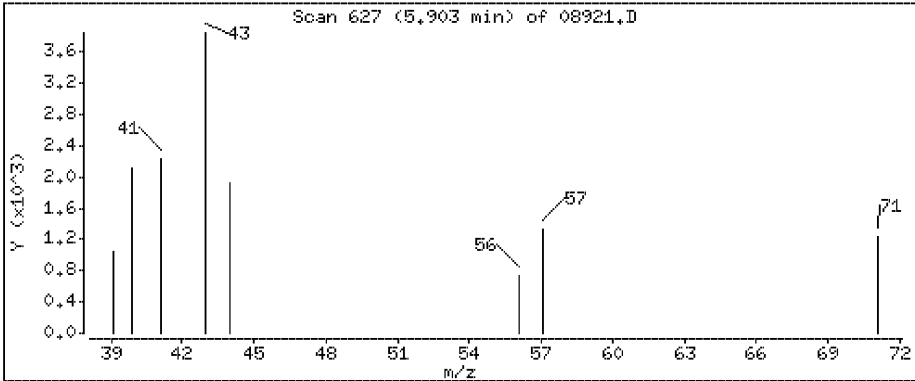
46 2,2,4-Trimethylpentane

Concentration: 0.0476 ppbv



47 Heptane

Concentration: 0.0761 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

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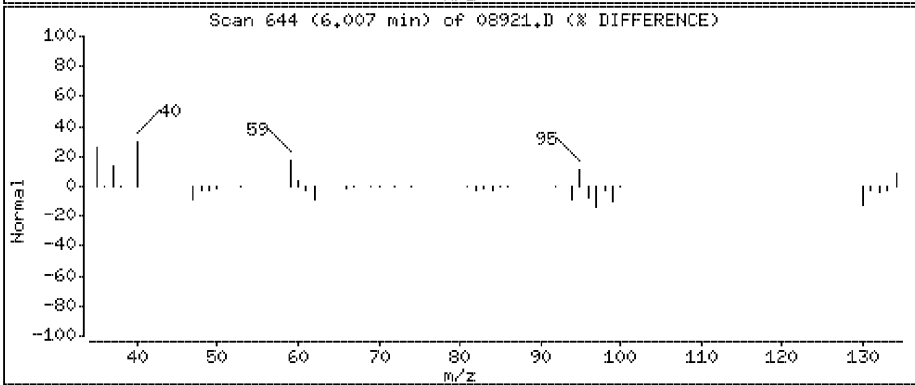
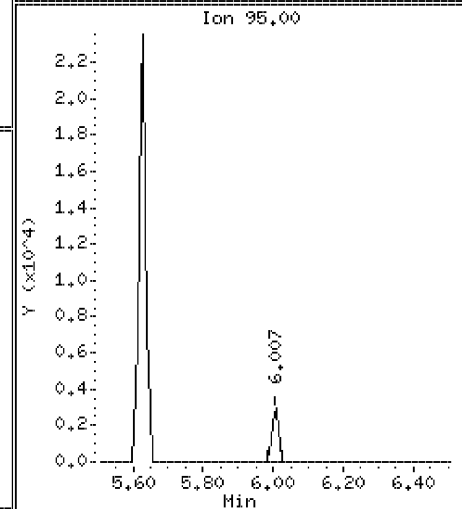
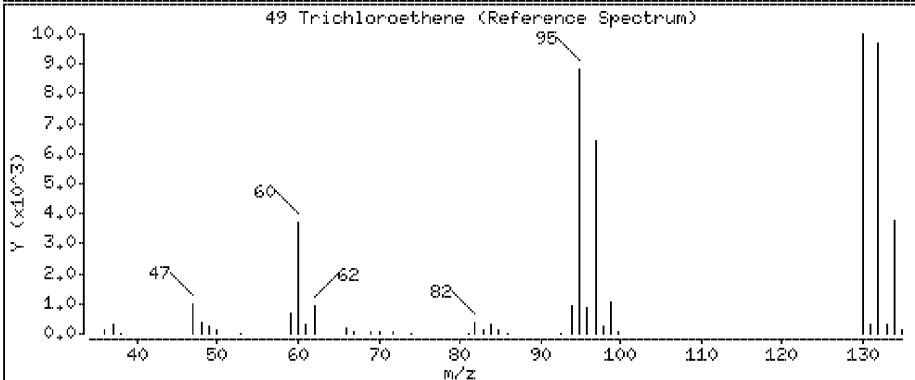
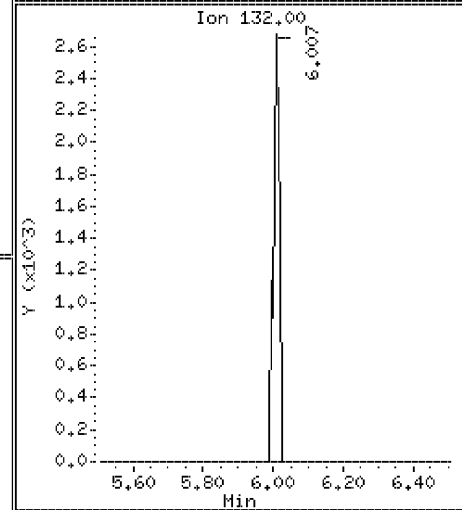
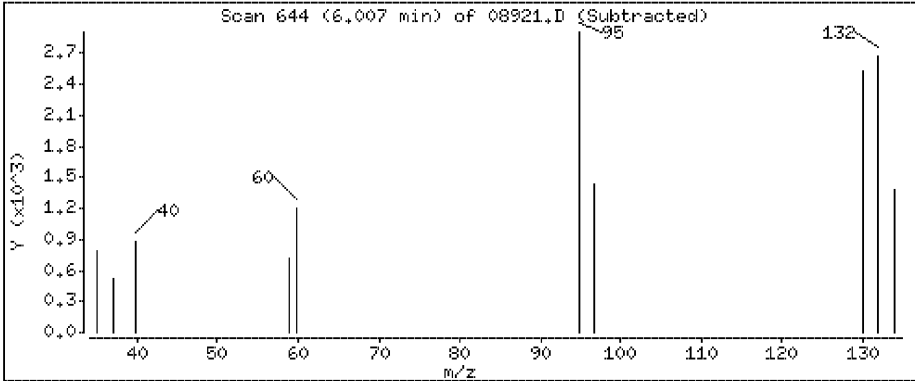
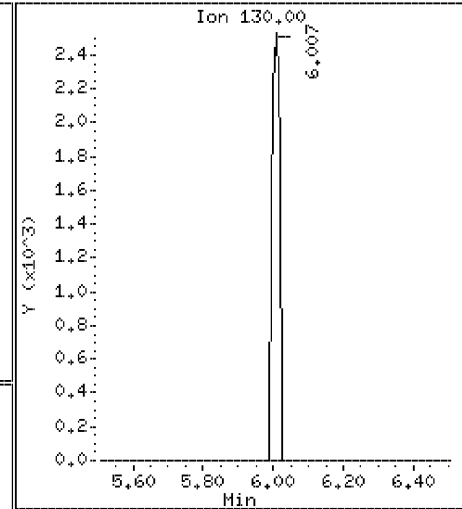
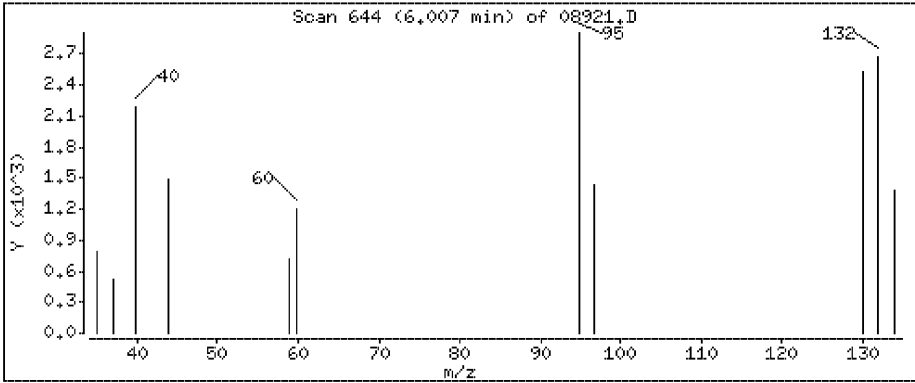
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

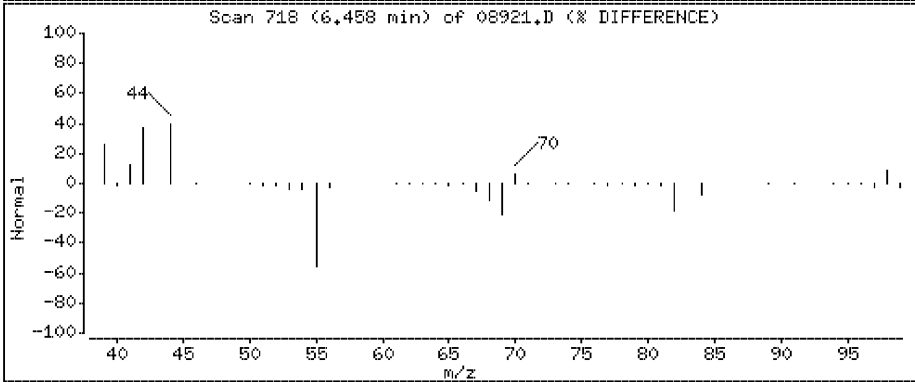
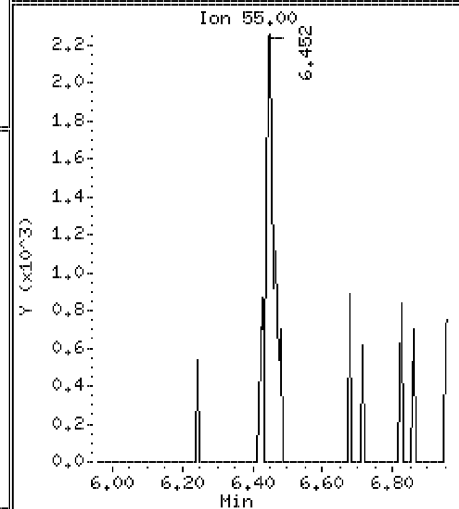
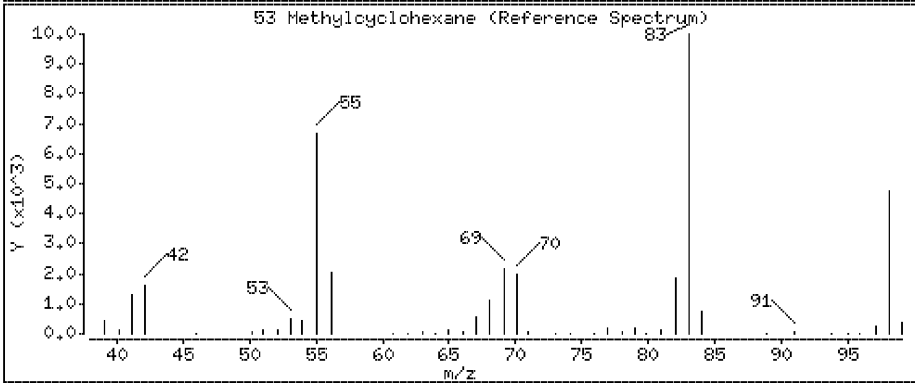
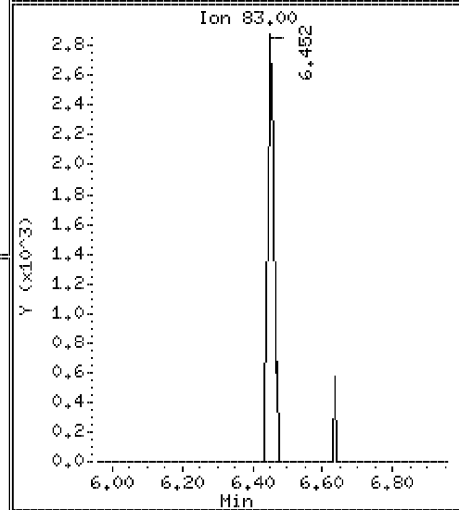
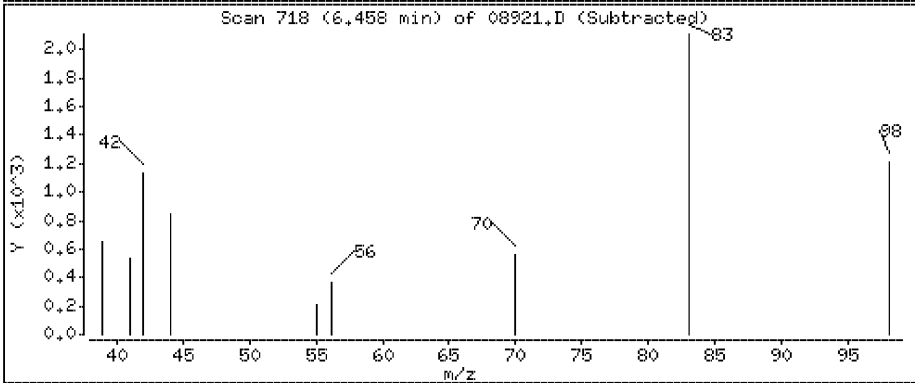
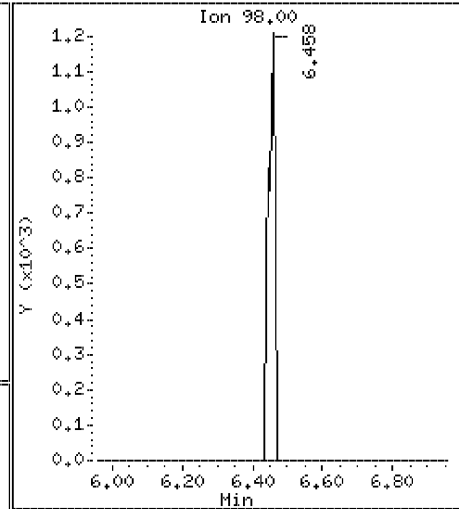
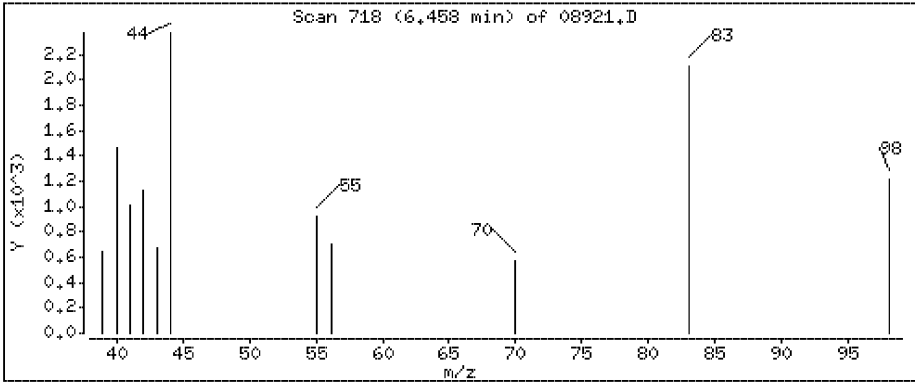
49 Trichloroethene

Concentration: 0,107 ppbv



53 Methylcyclohexane

Concentration: 0.0665 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

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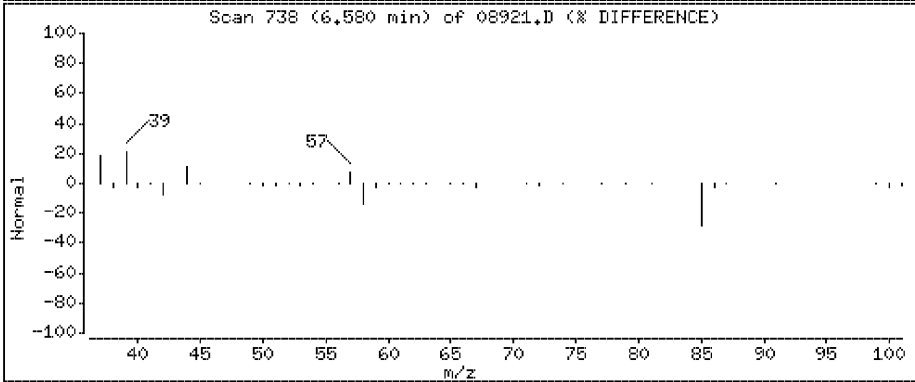
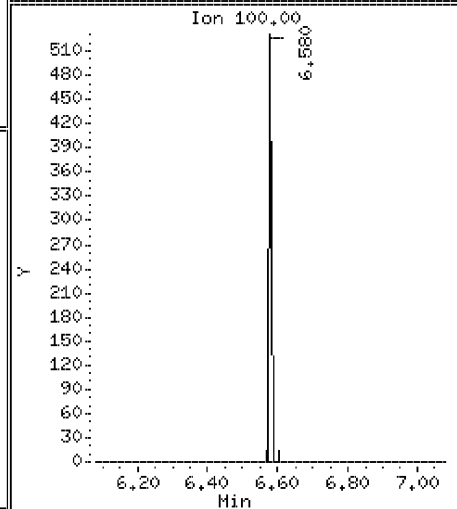
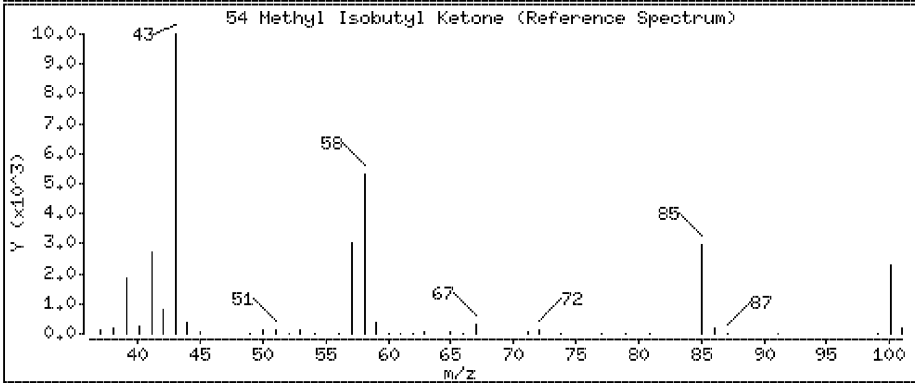
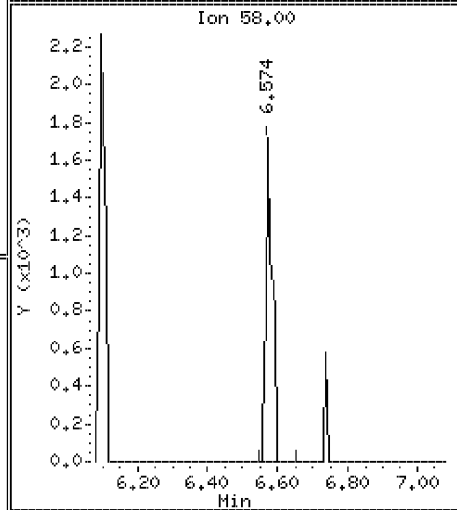
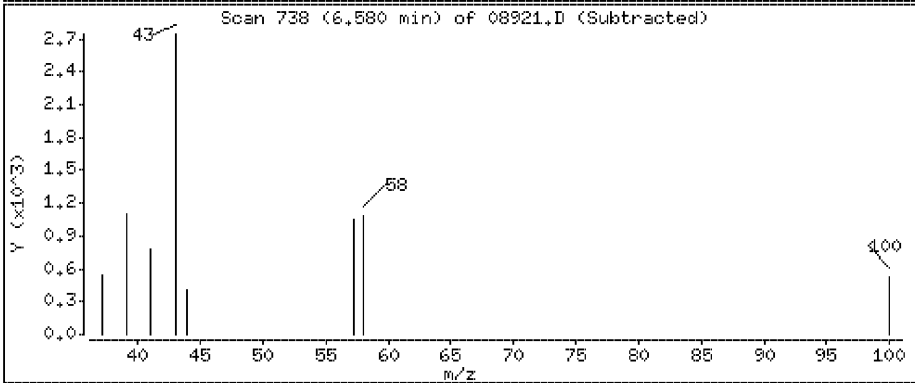
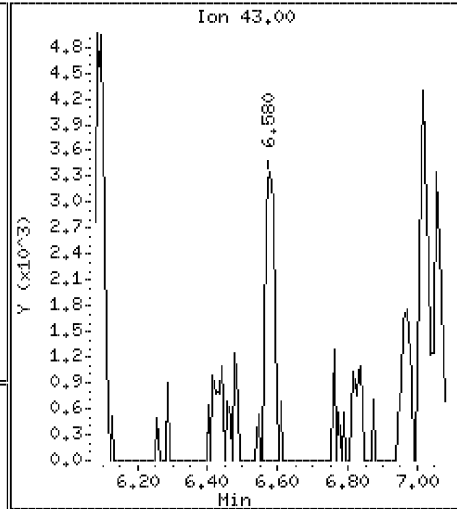
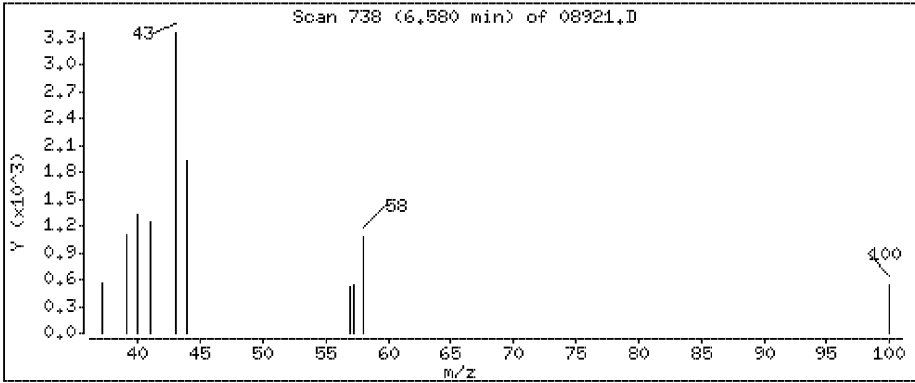
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

54 Methyl Isobutyl Ketone

Concentration: 0.0623 ppbv



Data File: \\192.168.10.12\chem\10airI,i\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

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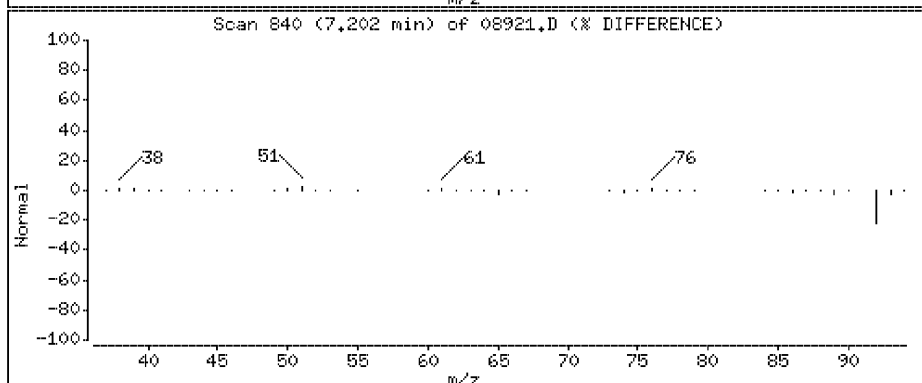
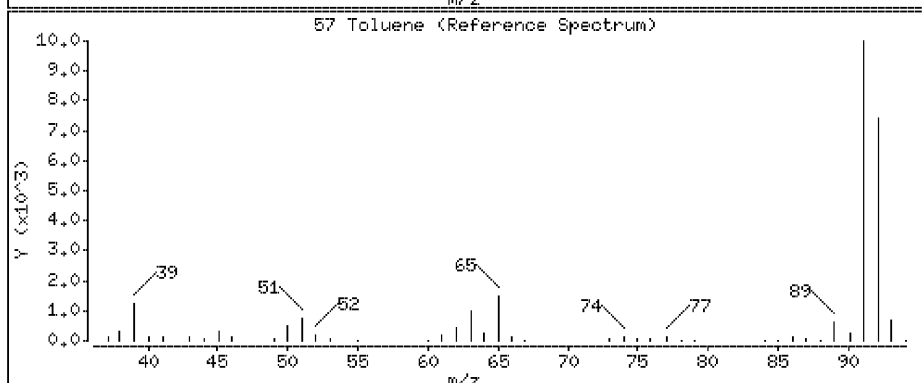
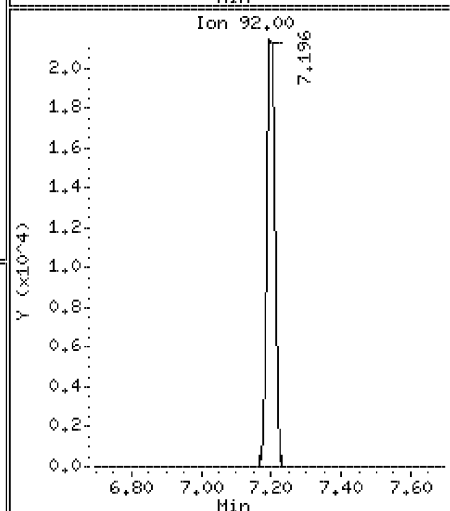
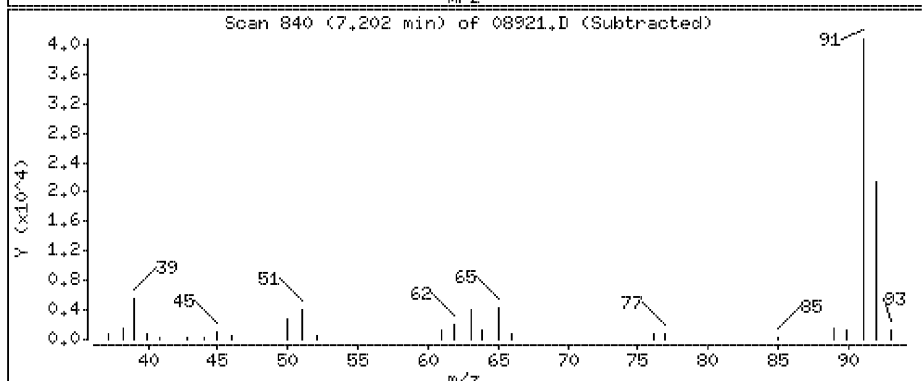
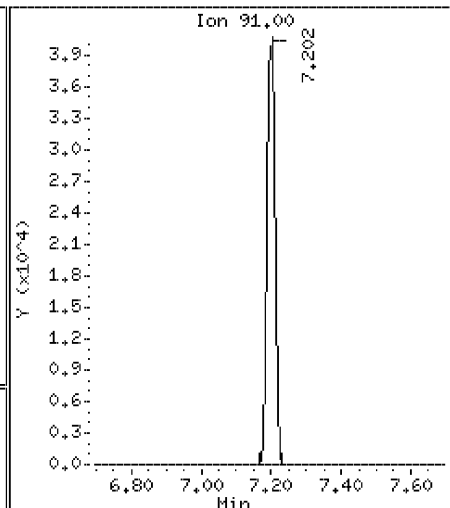
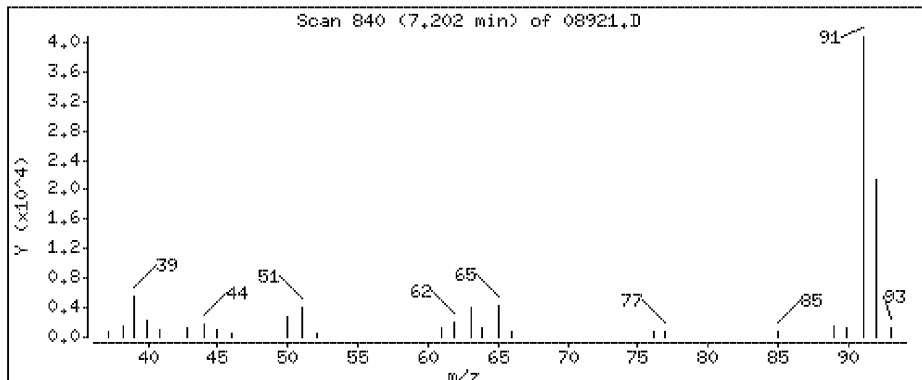
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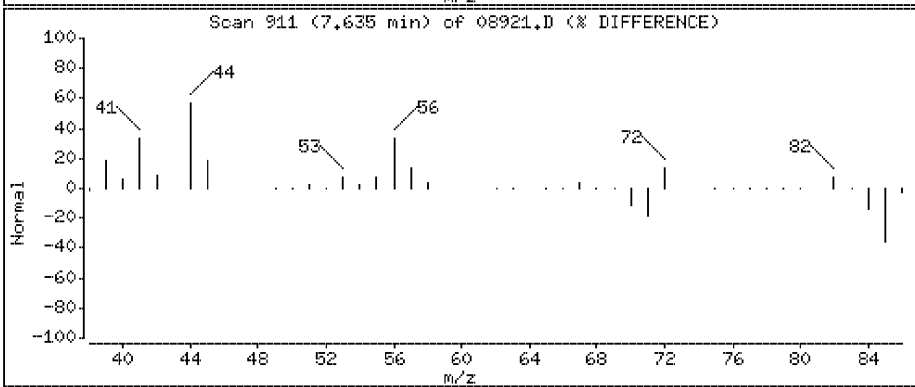
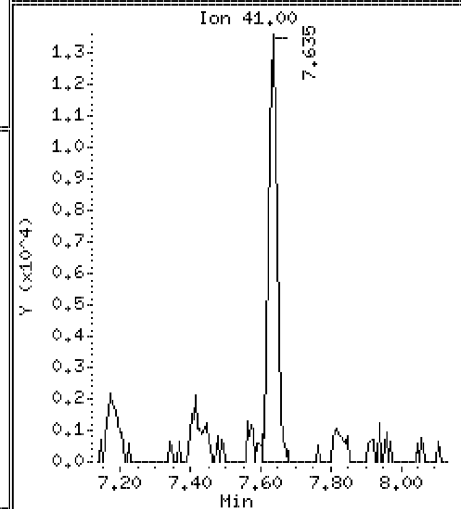
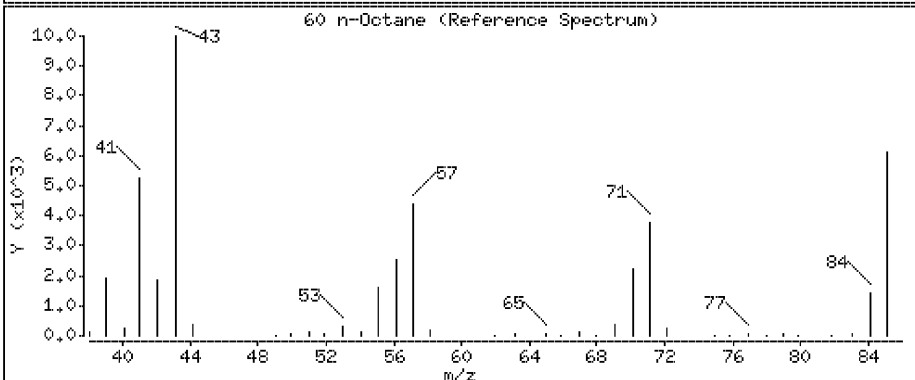
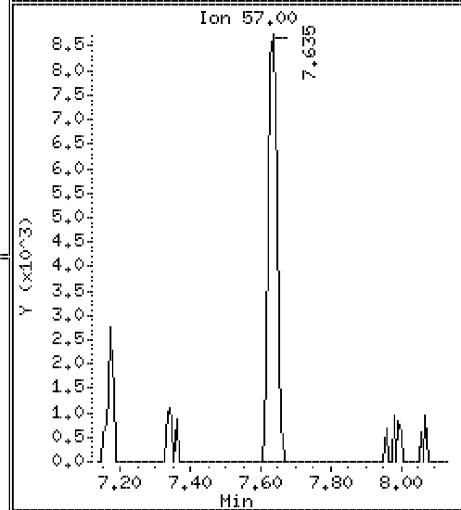
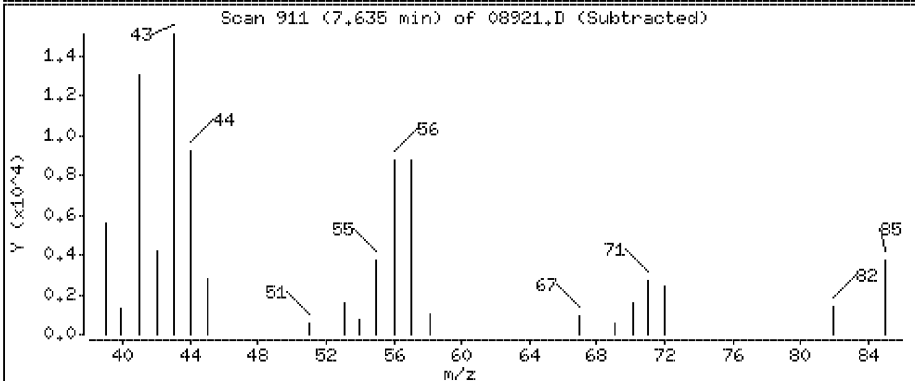
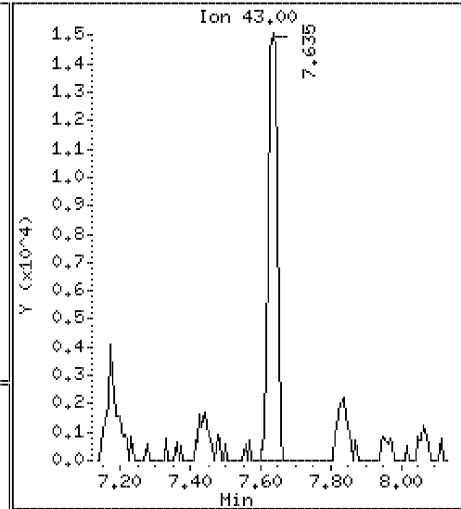
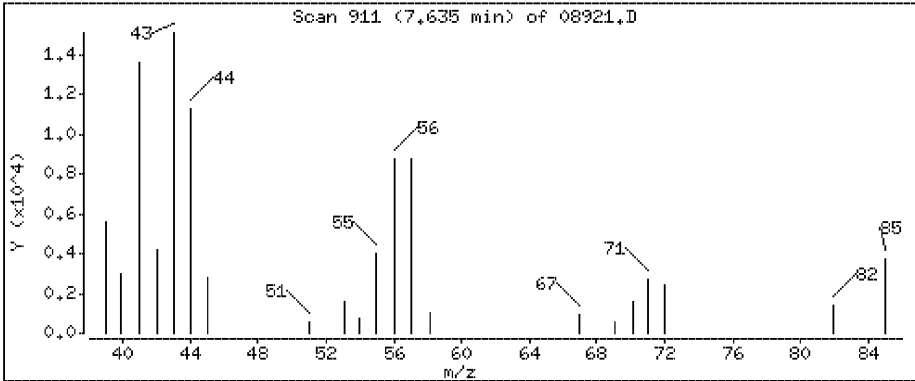
Column phase: DB-5 SN:USD449717H

Column diameter: 0,32

57 Toluene

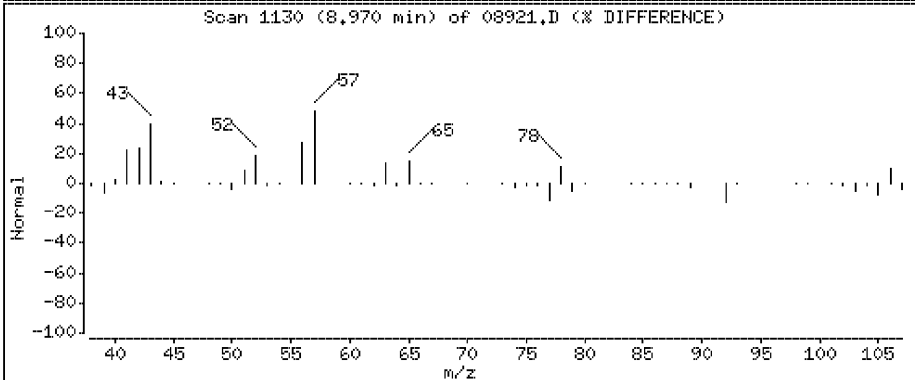
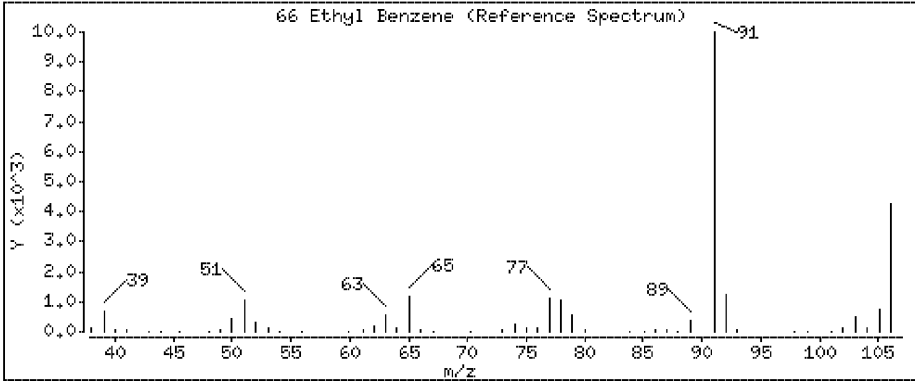
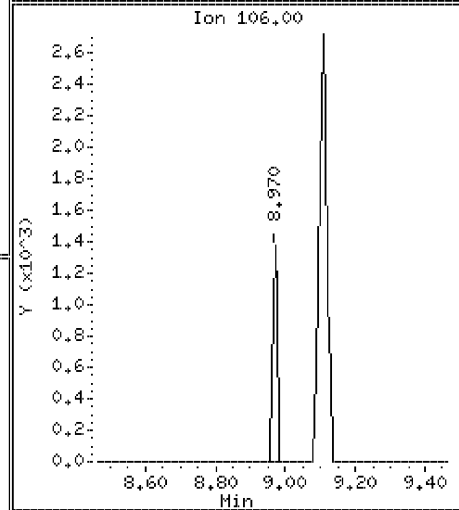
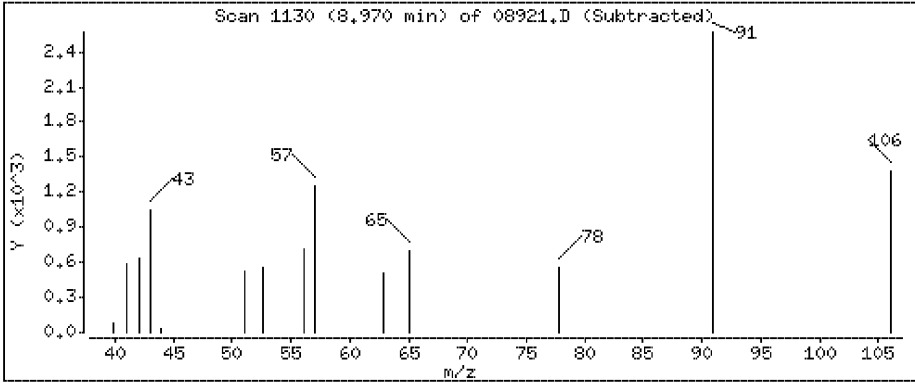
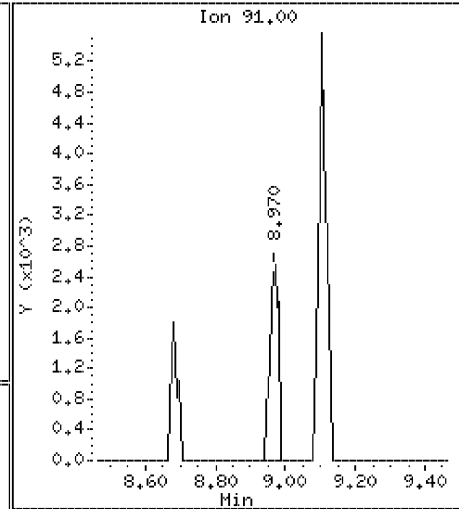
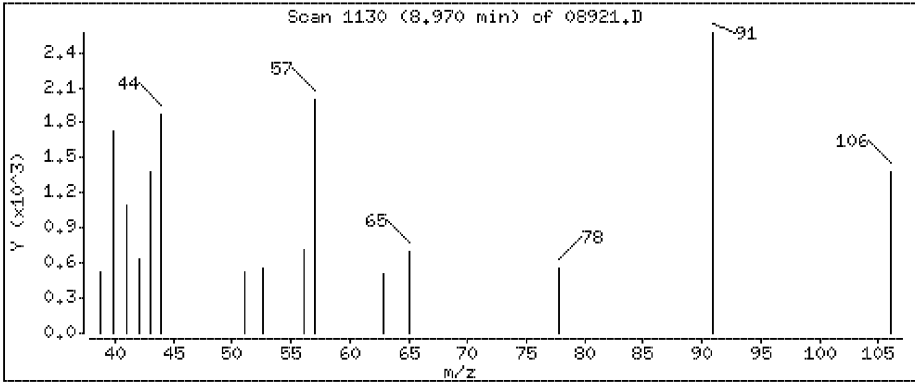
Concentration: 0,633 ppbv





66 Ethyl Benzene

Concentration: 0.0352 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

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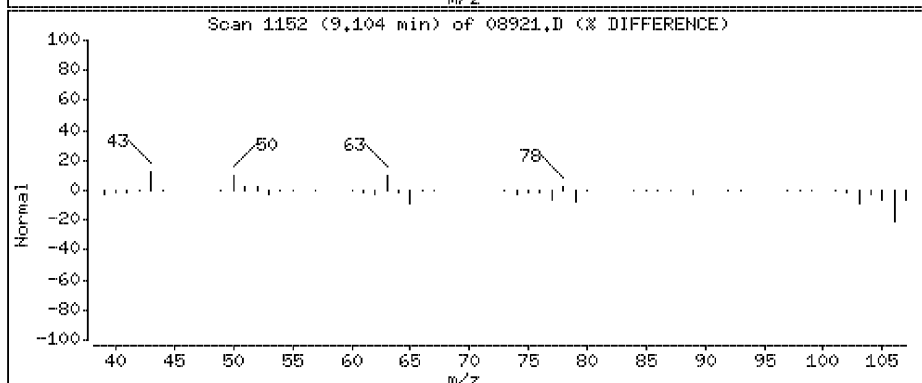
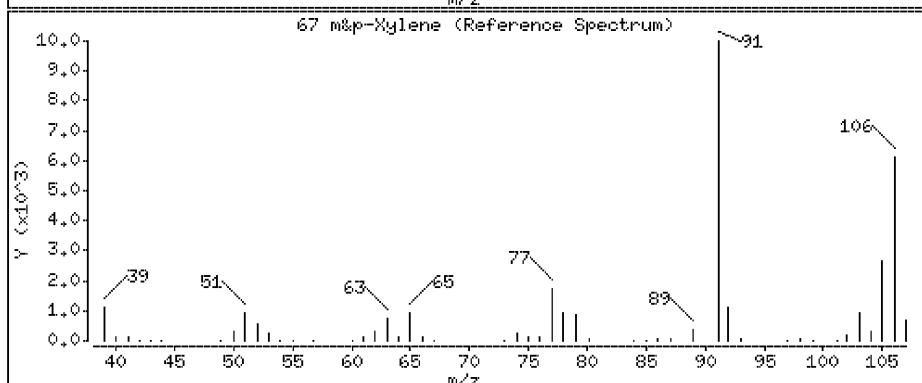
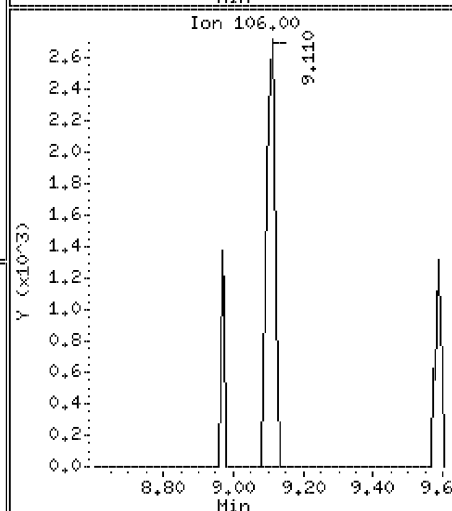
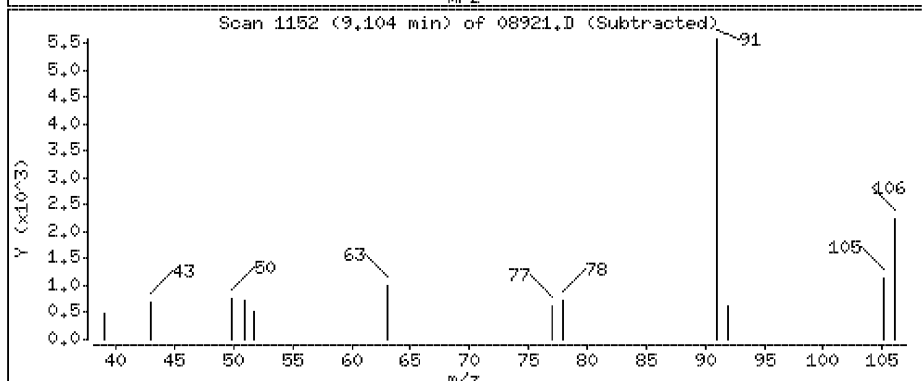
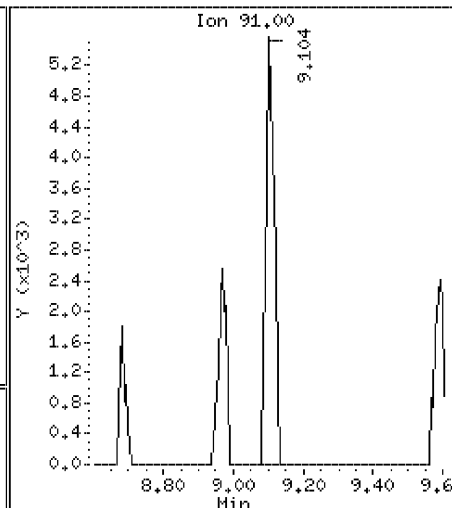
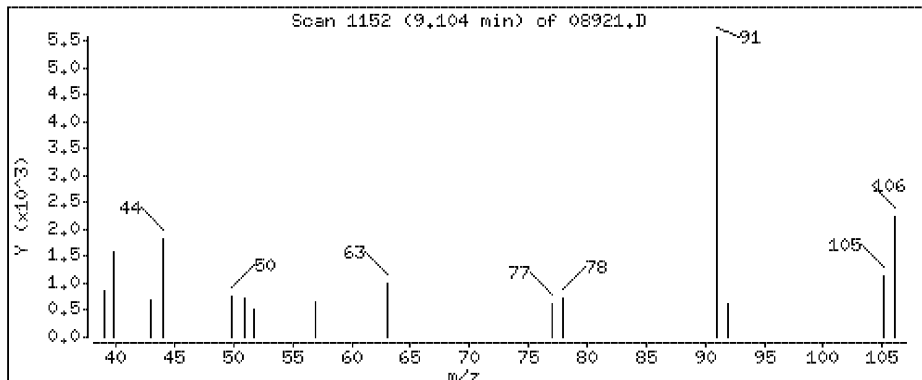
Operator: MJL

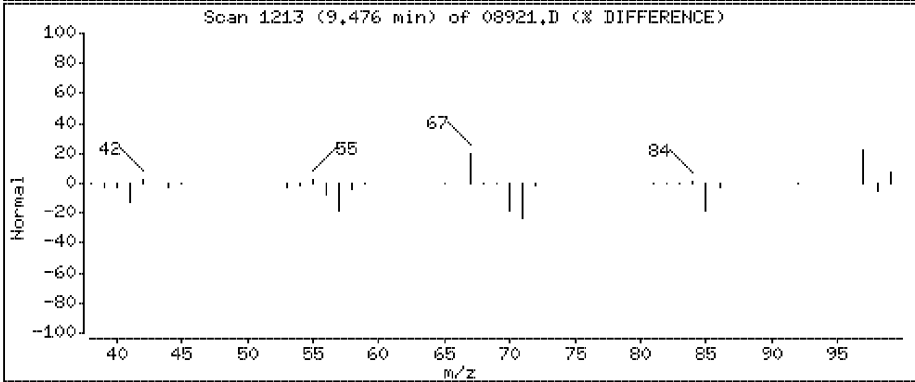
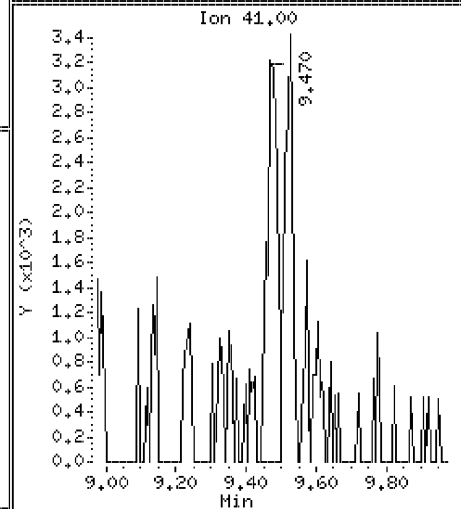
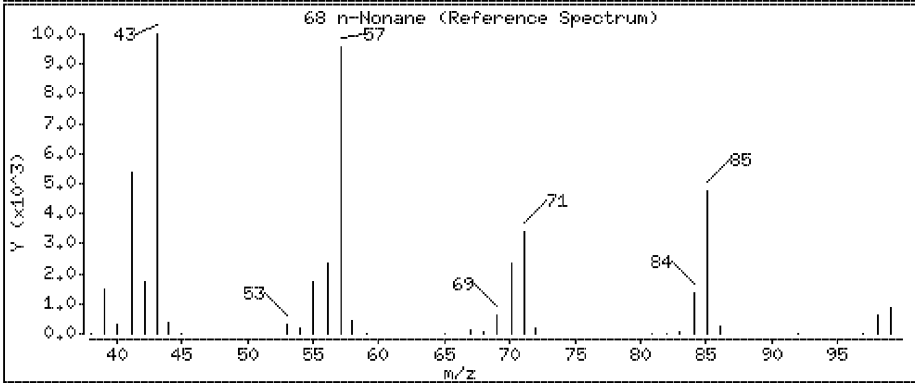
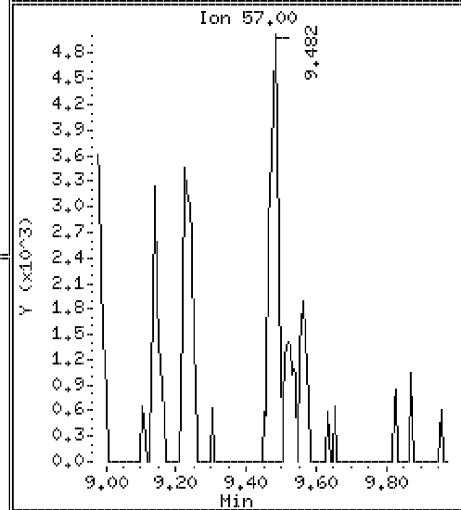
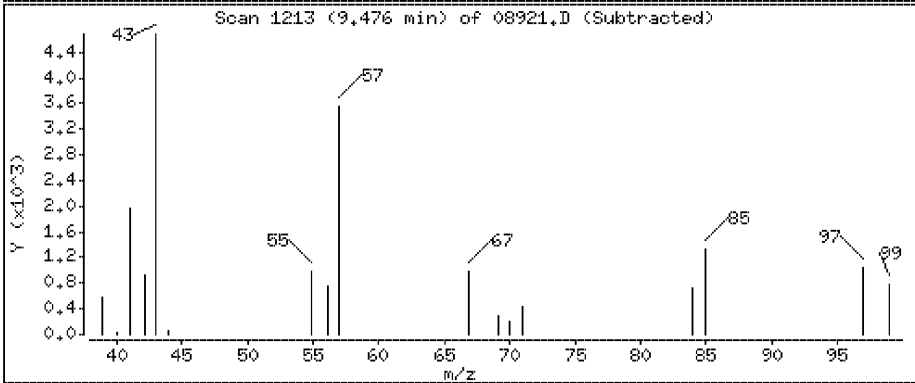
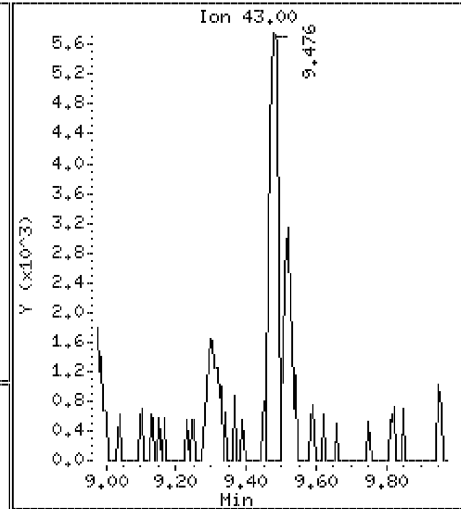
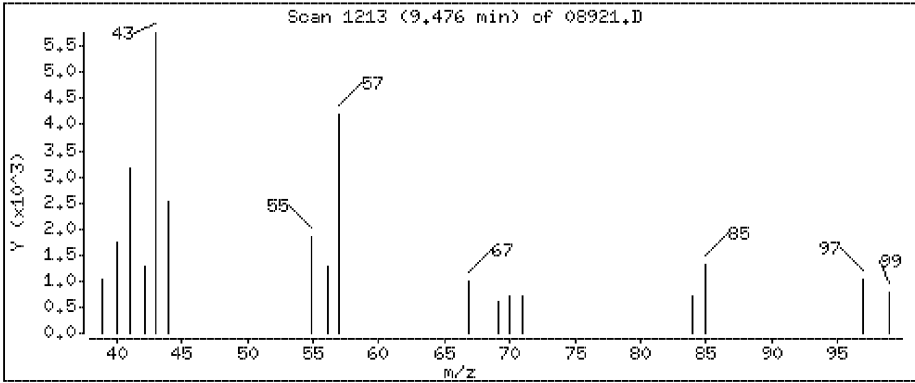
Column phase: DB-5 SN:USD449717H

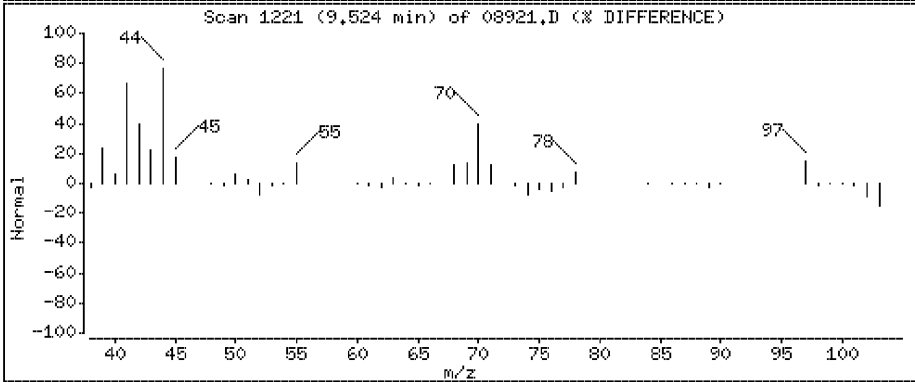
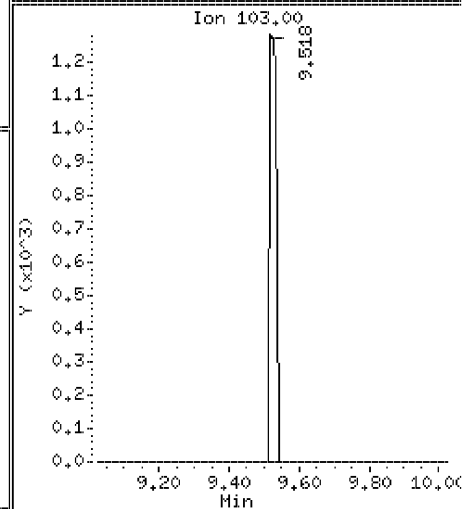
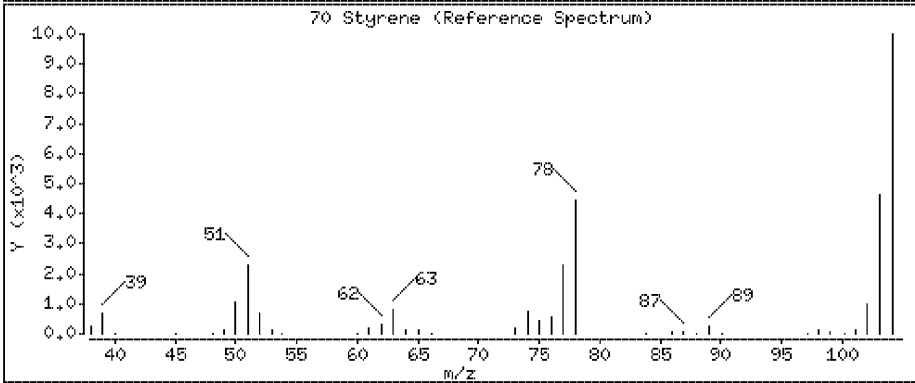
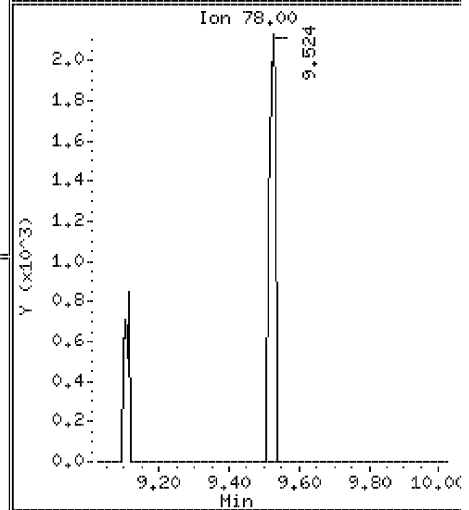
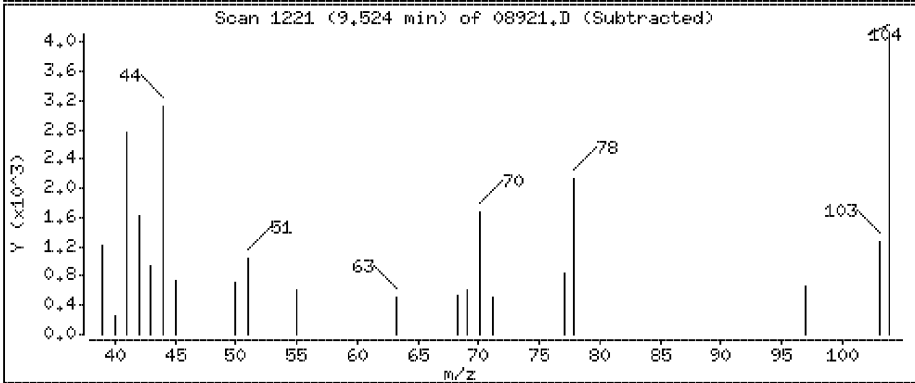
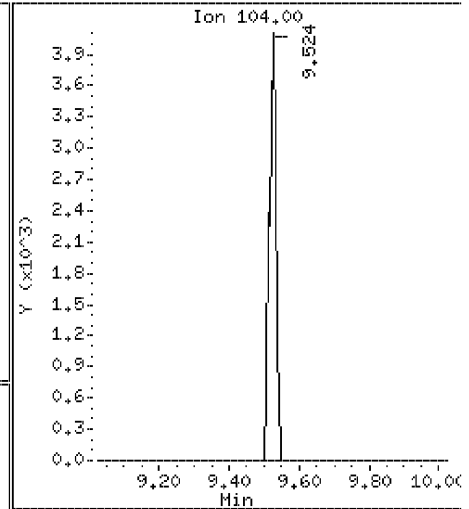
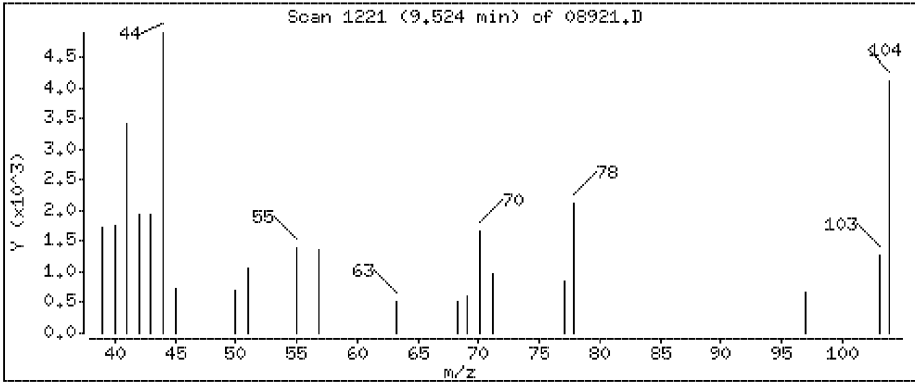
Column diameter: 0.32

67 m&p-Xylene

Concentration: 0.0980 ppbv







Data File: \\192.168.10.12\chem\10airI,1\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

Sample Info:

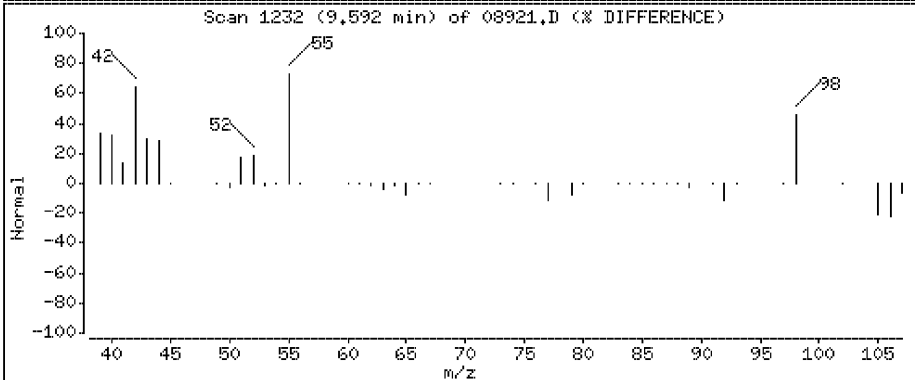
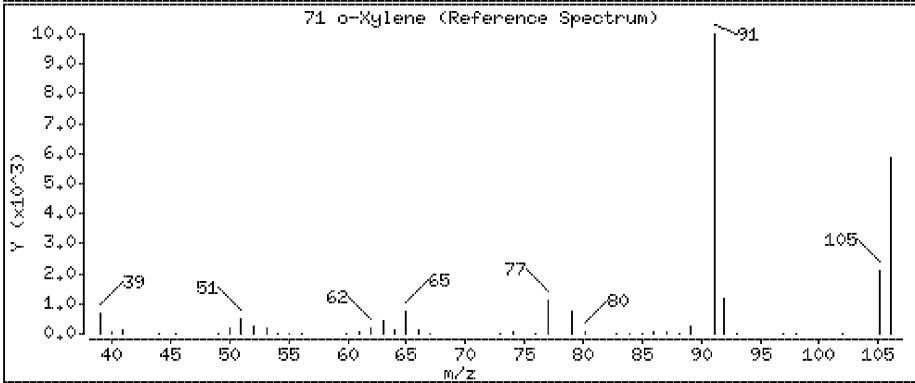
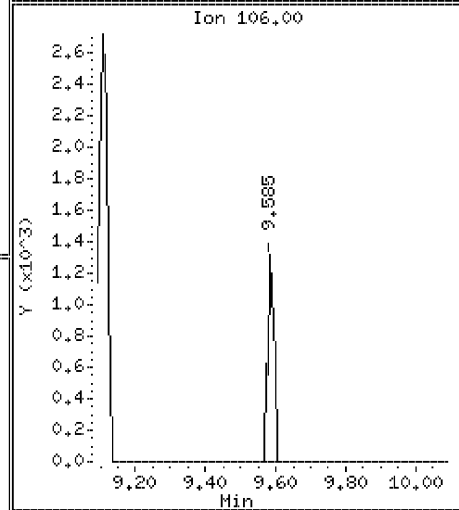
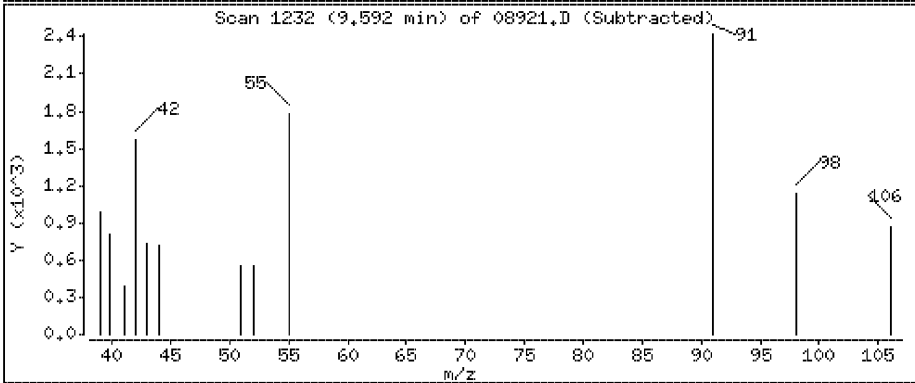
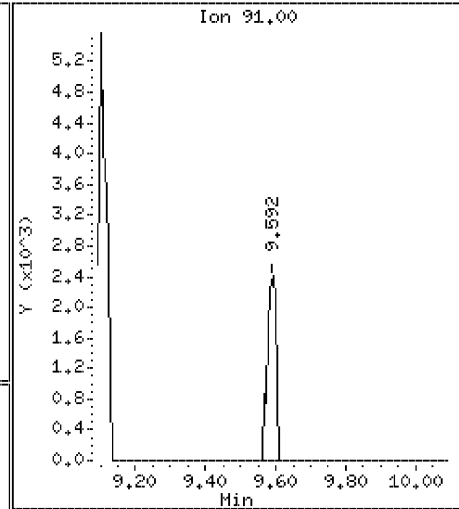
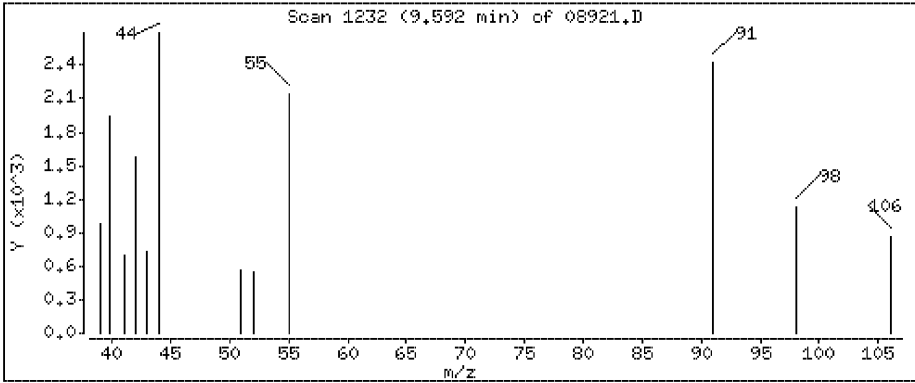
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

71 o-Xylene

Concentration: 0.0429 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

Sample Info:

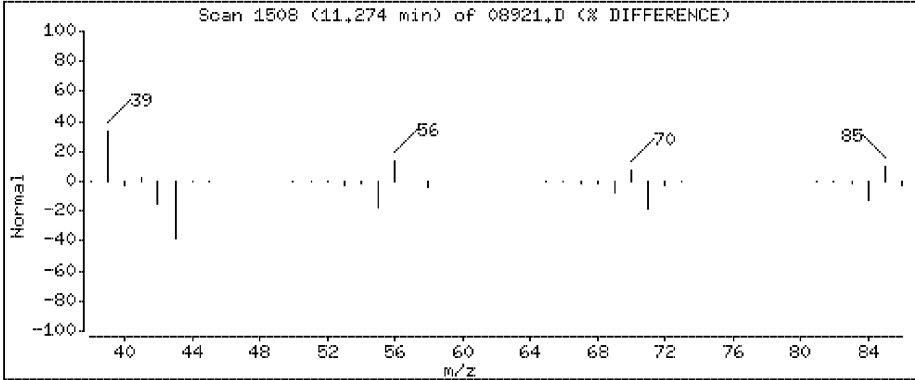
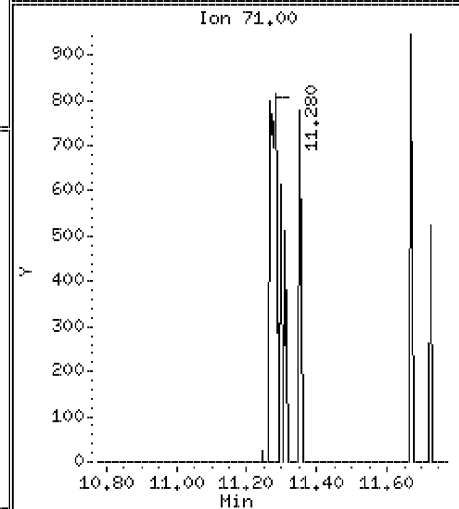
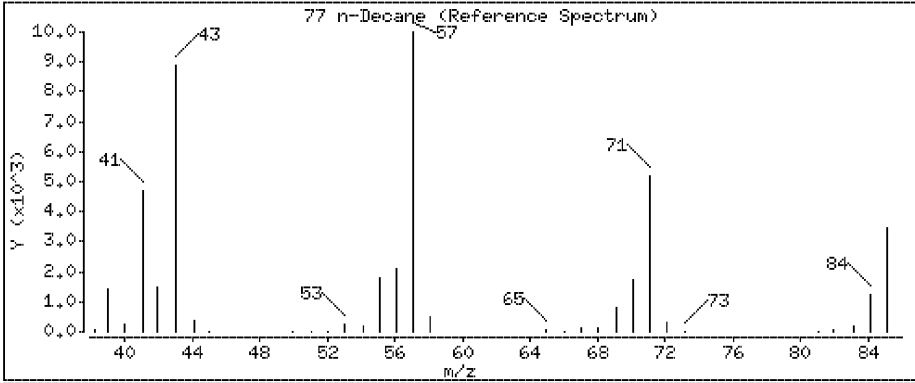
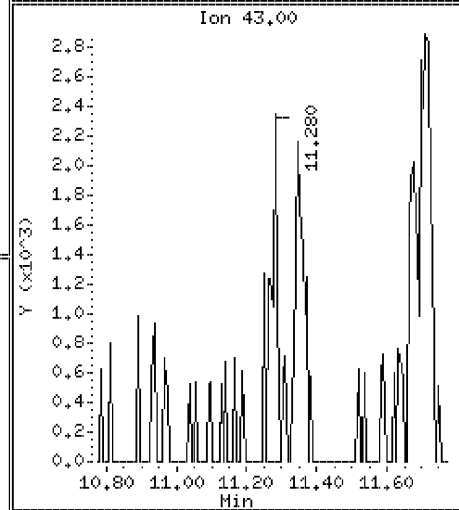
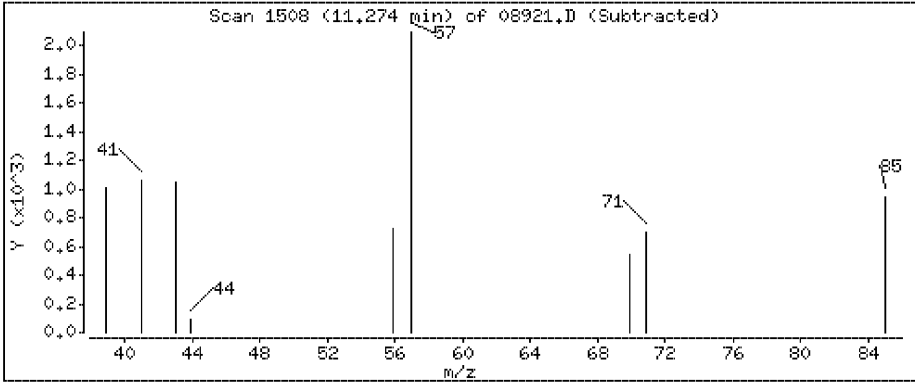
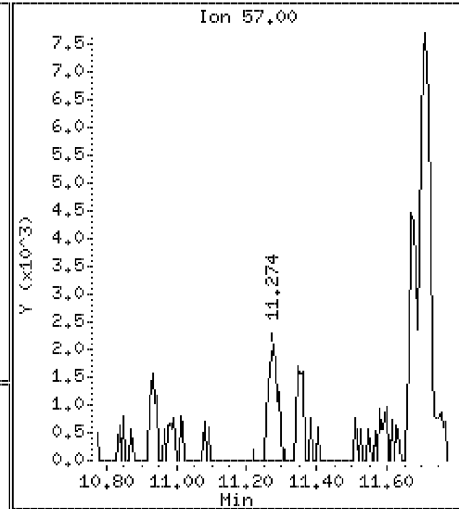
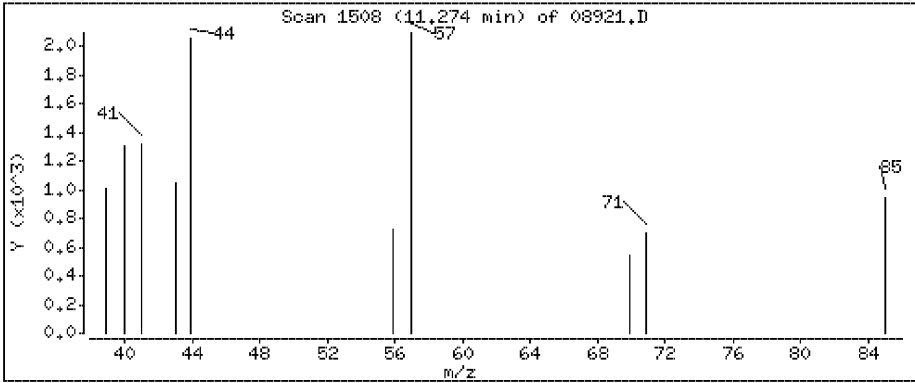
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

77 n-Decane

Concentration: 0.0480 ppbv



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Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

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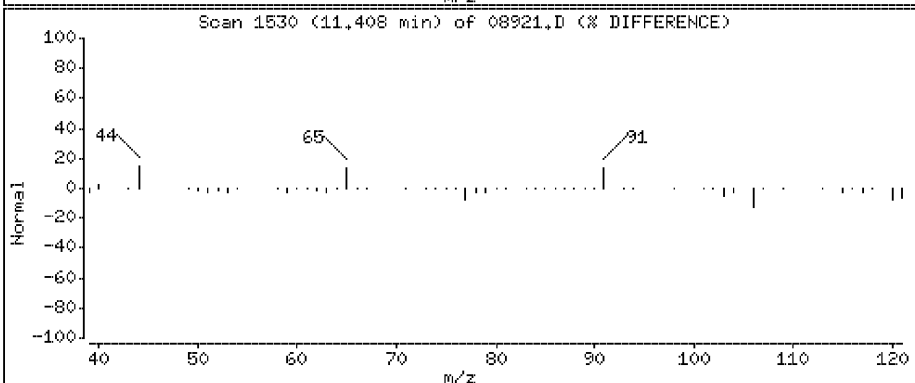
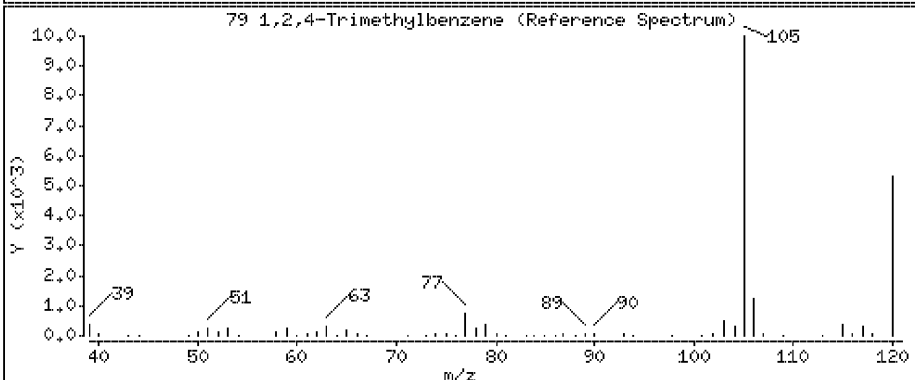
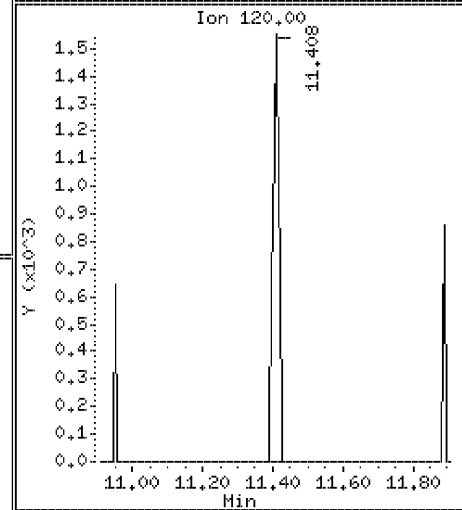
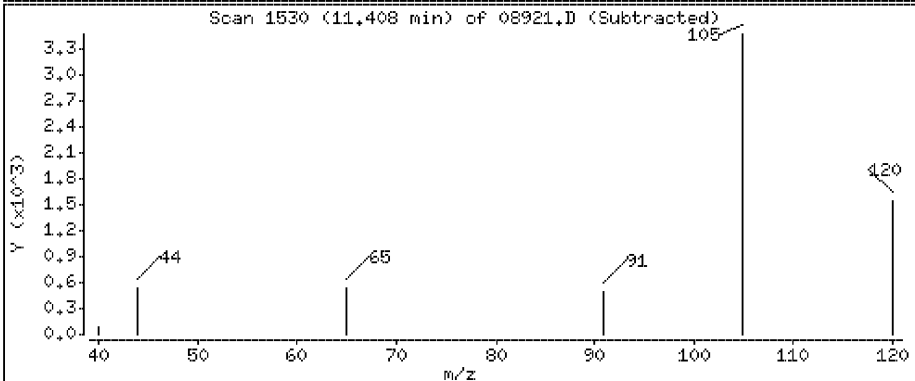
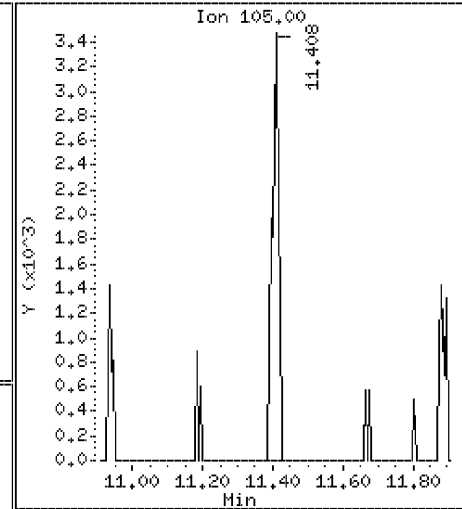
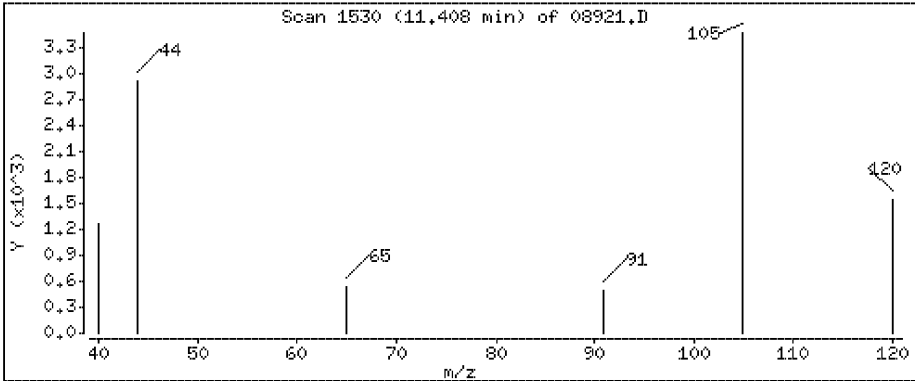
Operator: MJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

79 1,2,4-Trimethylbenzene

Concentration: 0.0424 ppbv



Data File: \\192.168.10.12\chem\10airI,1\033019,b\08921.D

Date : 30-MAR-2019 16:17

Client ID:

Instrument: 10airI.i

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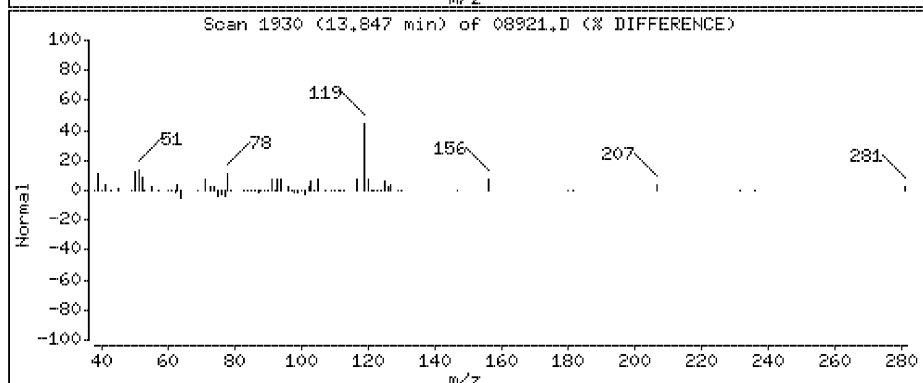
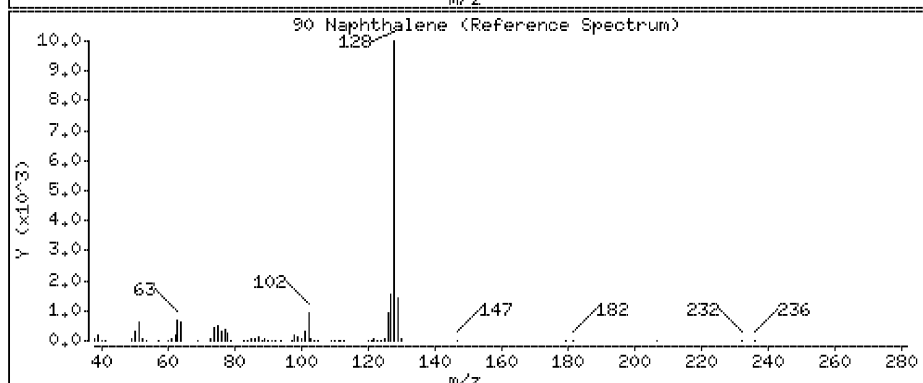
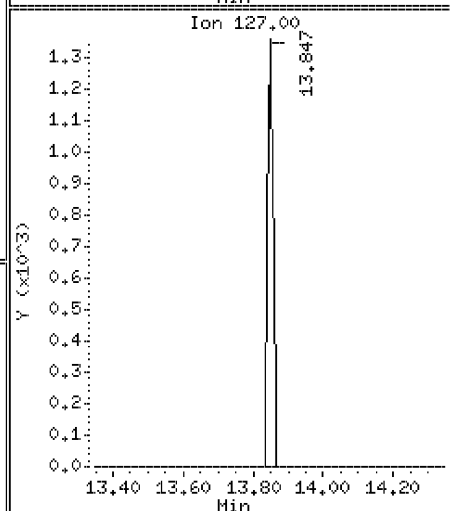
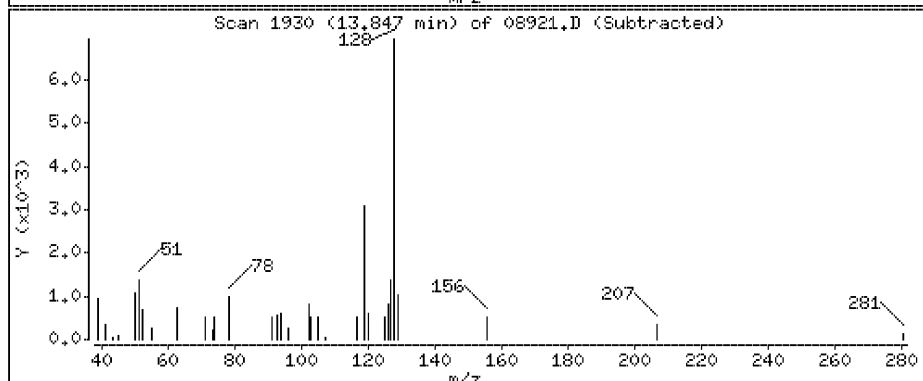
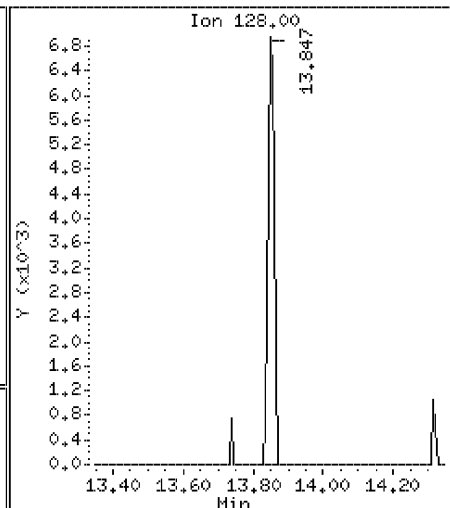
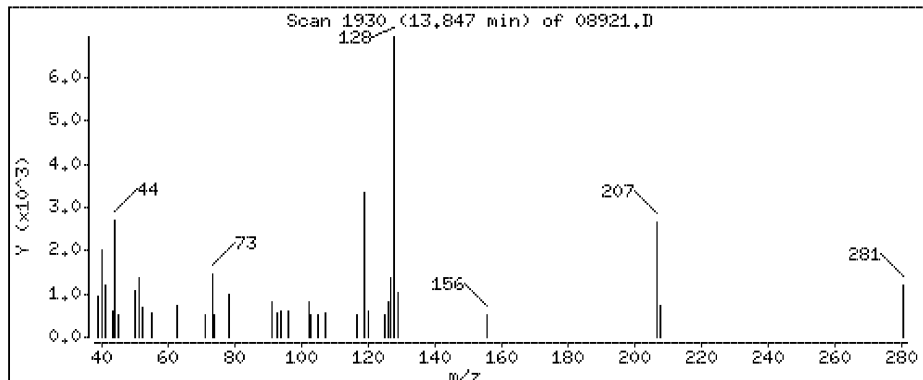
Operator: HJL

Column phase: DB-5 SN:USD449717H

Column diameter: 0.32

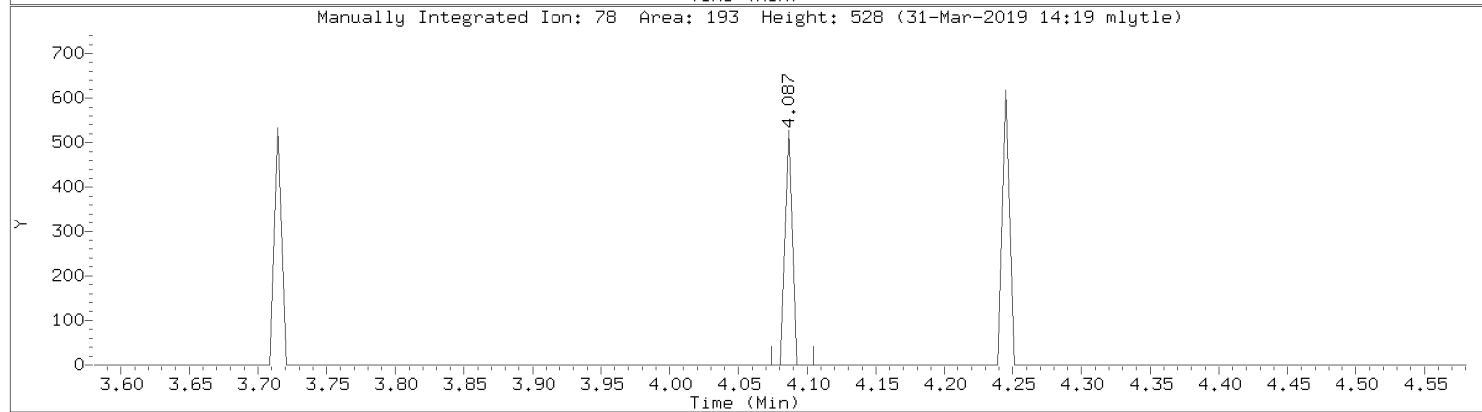
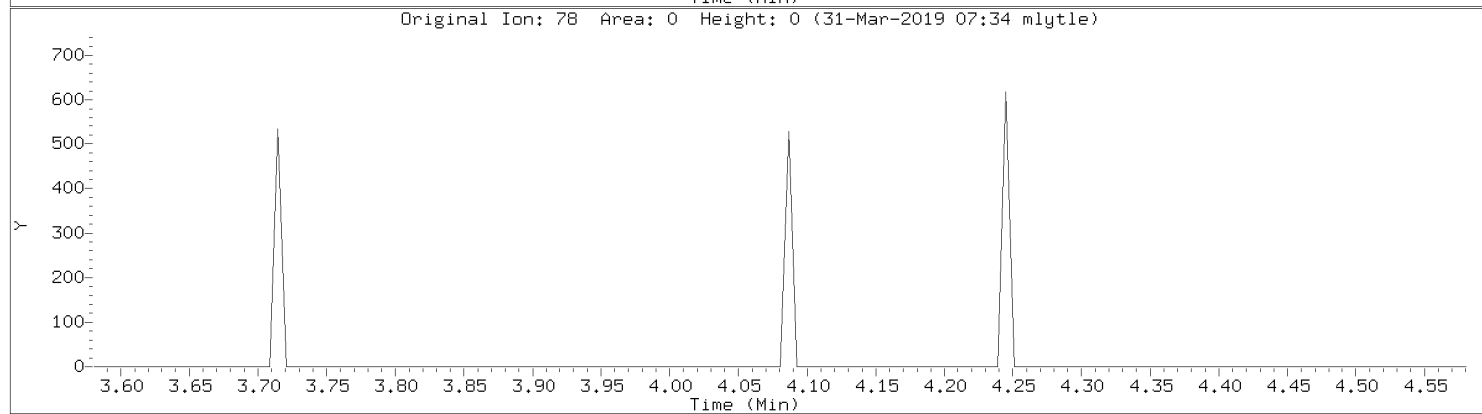
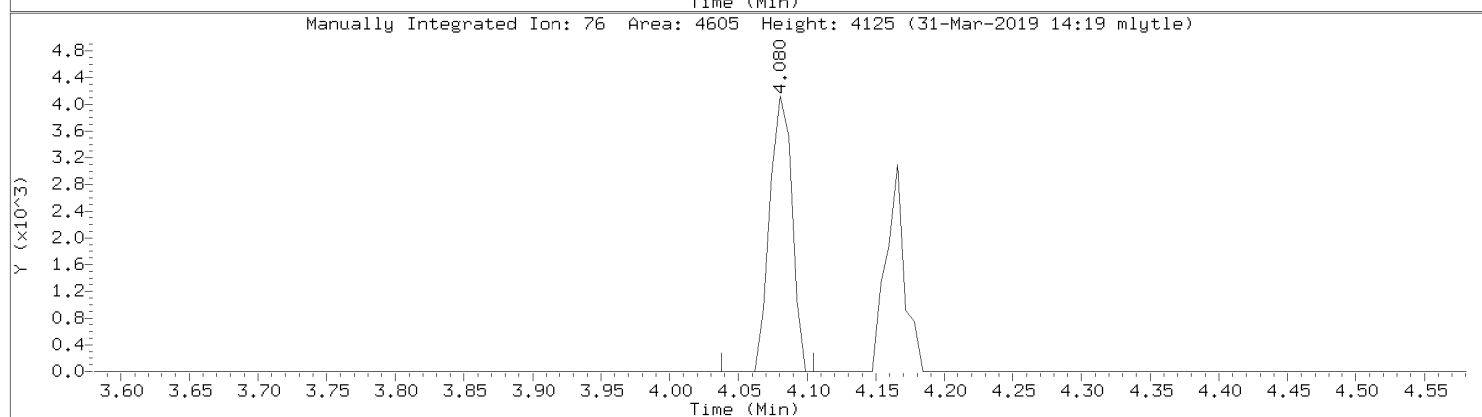
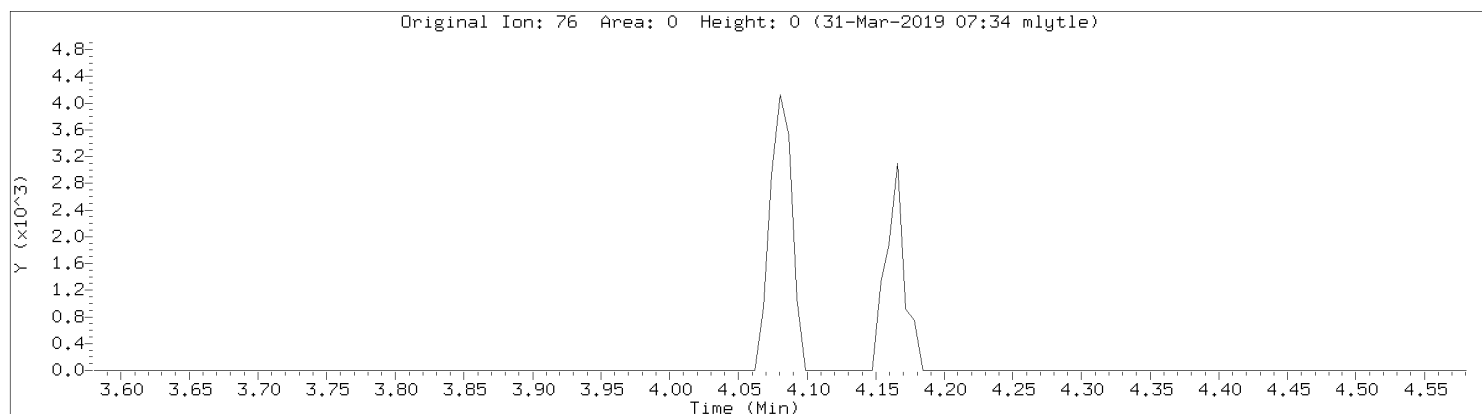
90 Naphthalene

Concentration: 0.114 ppbv



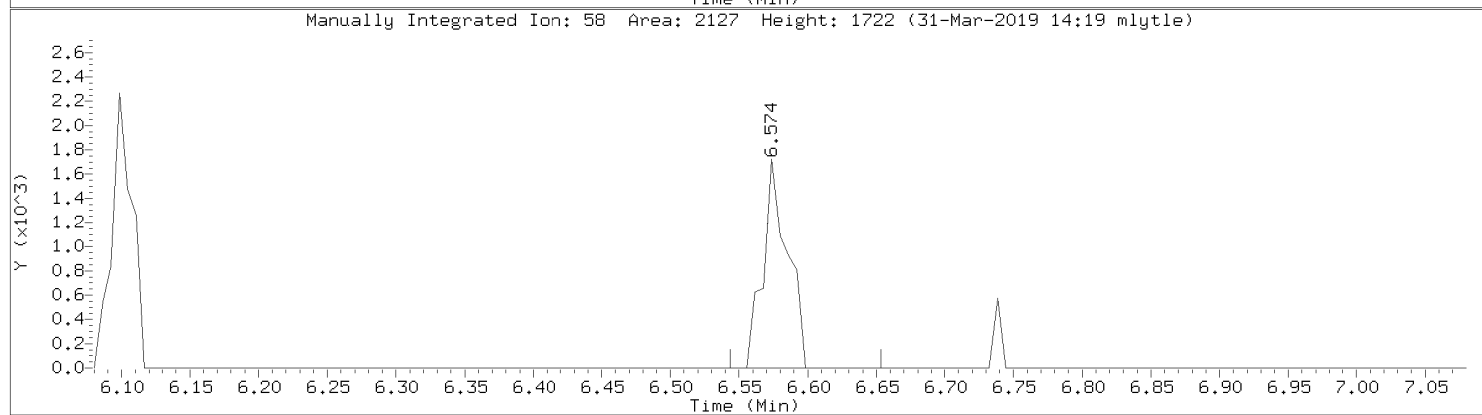
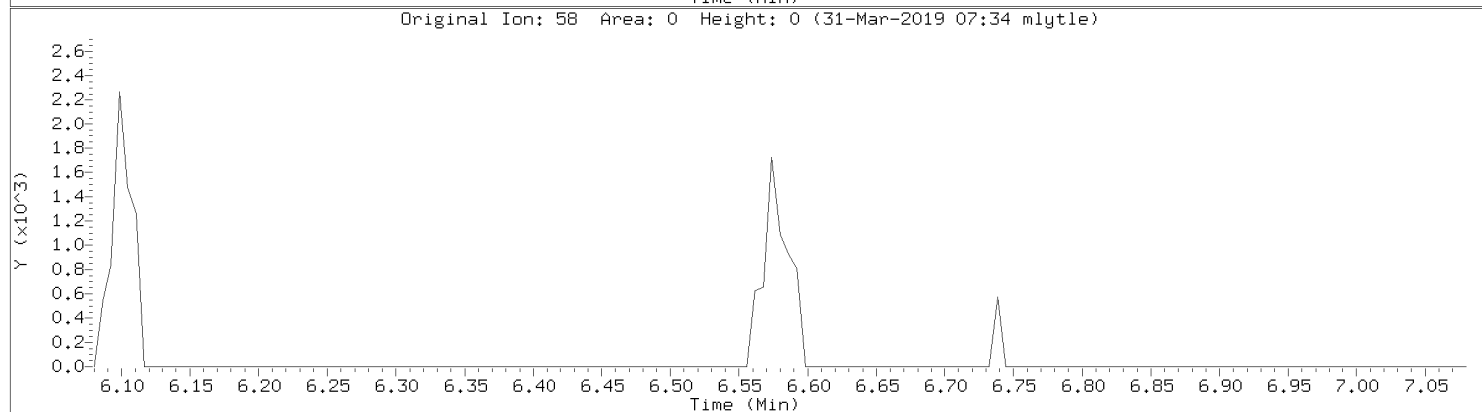
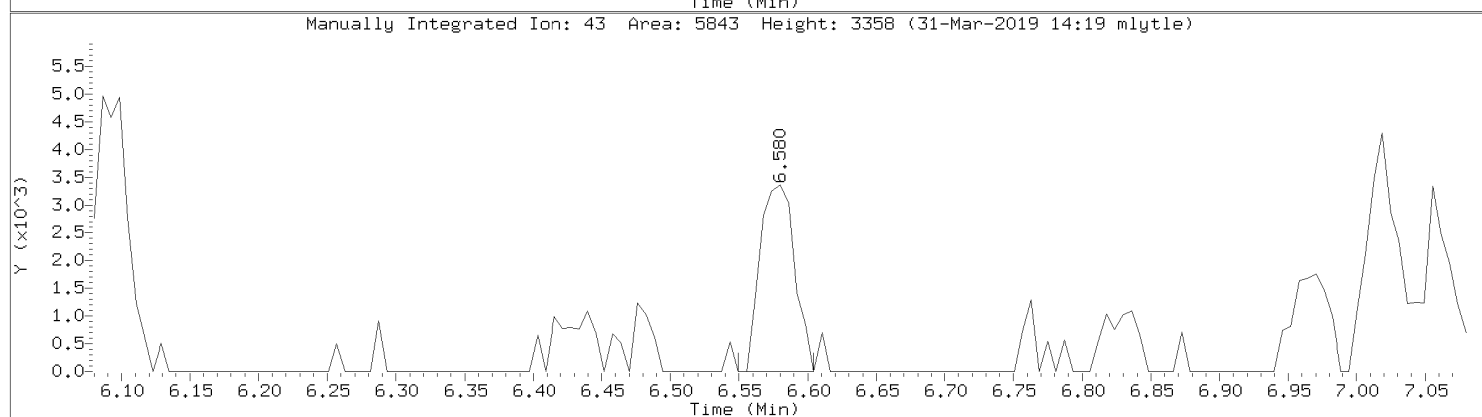
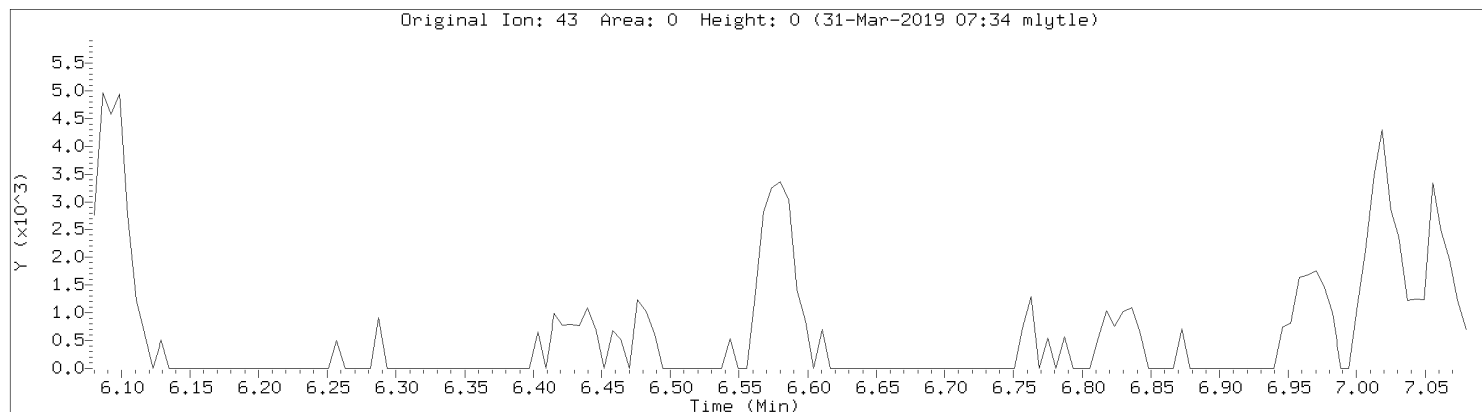
Data File: \\192.168.10.12\chem\10airI.i\033019.b\08921.D
Injection Date: 30-MAR-2019 16:17
Instrument: 10airI.i
Lab Sample ID: 10468767013

Compound: Carbon Disulfide
CAS Number: 75-15-0

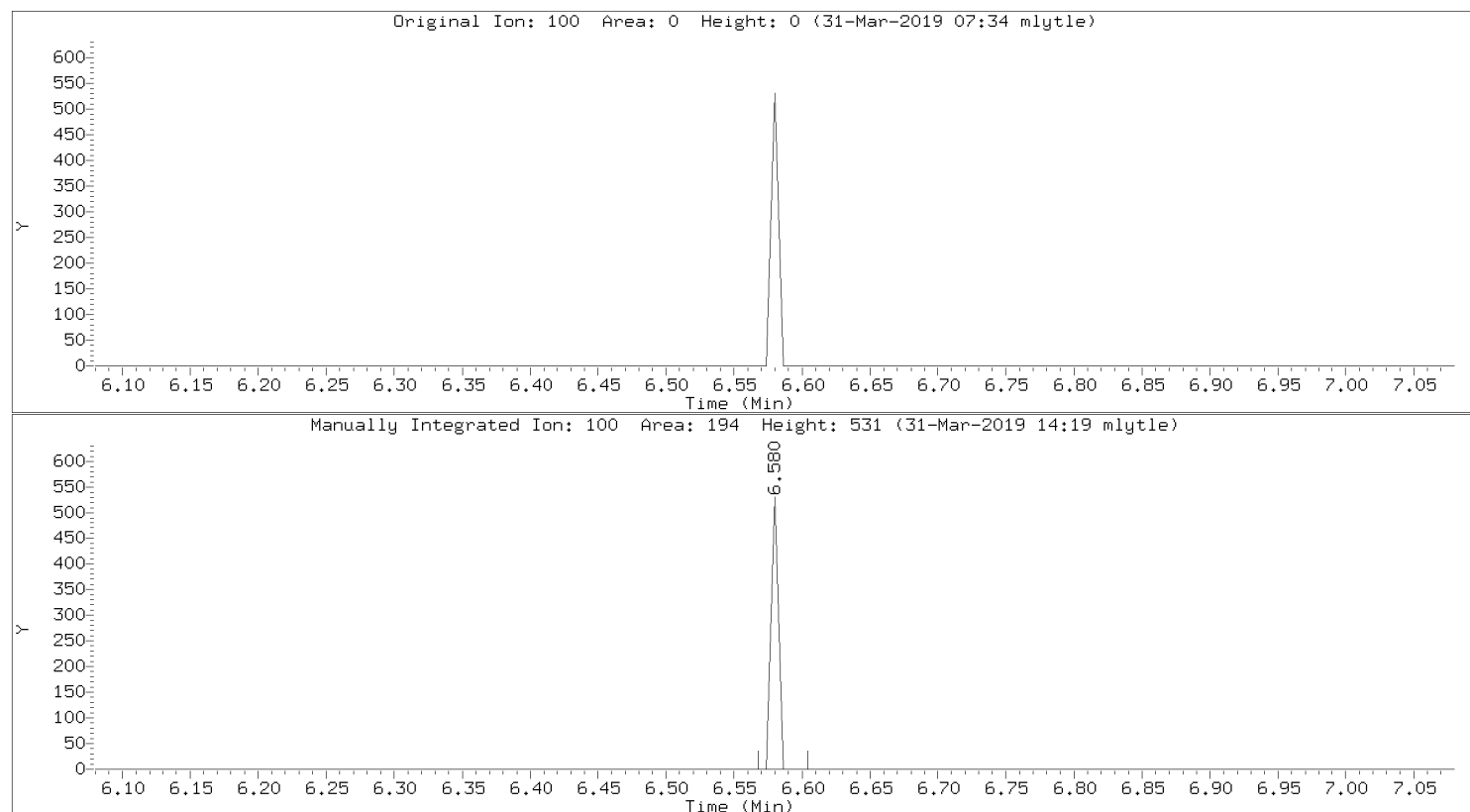


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08921.D
Injection Date: 30-MAR-2019 16:17
Instrument: 10airI.i
Lab Sample ID: 10468767013

Compound: Methyl Isobutyl Ketone
CAS Number: 108-10-1

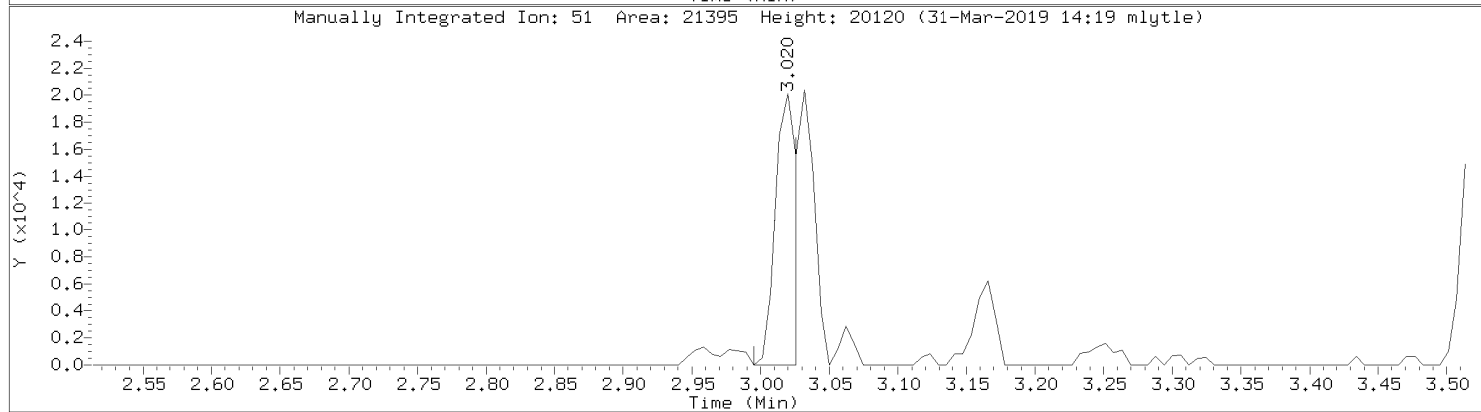
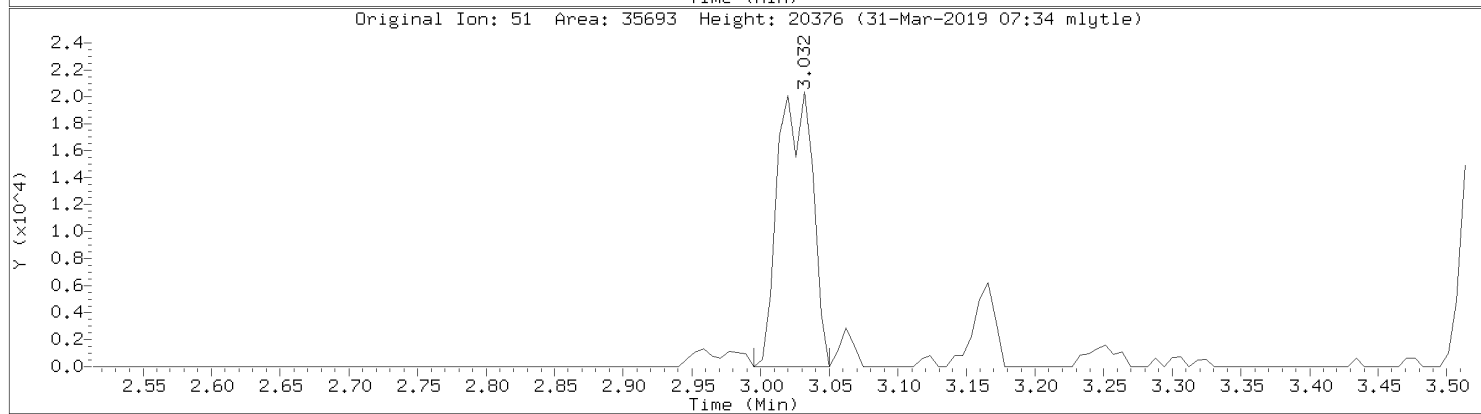
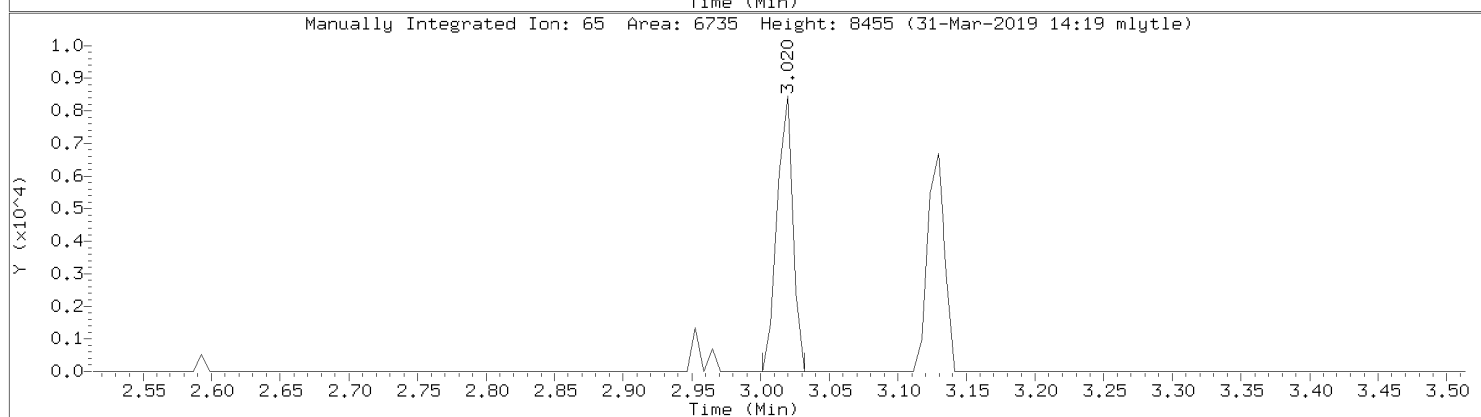
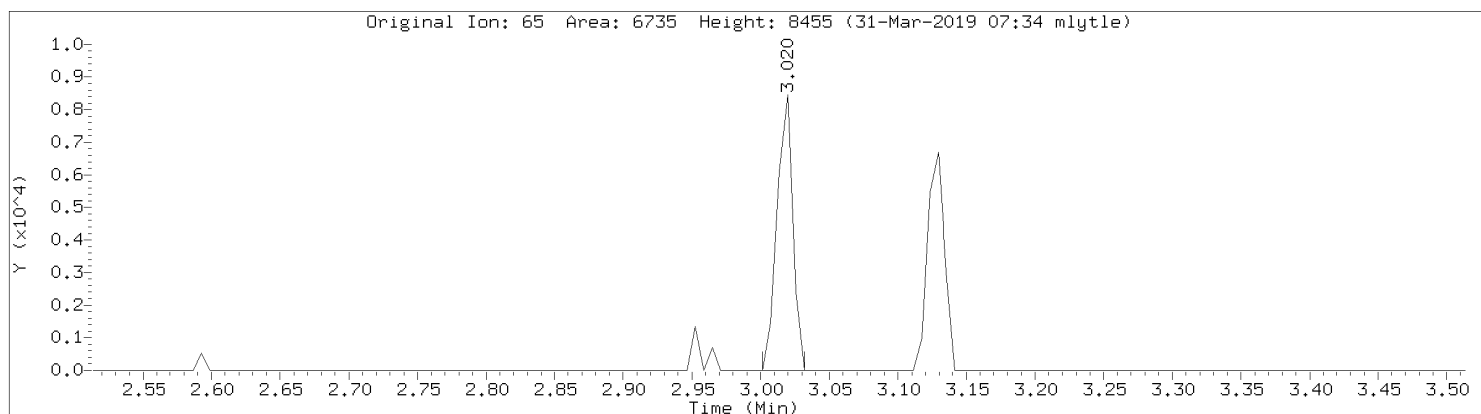


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Injection Date: 30-MAR-2019 16:17
Instrument: 10airI.i
Lab Sample ID: 10468767013

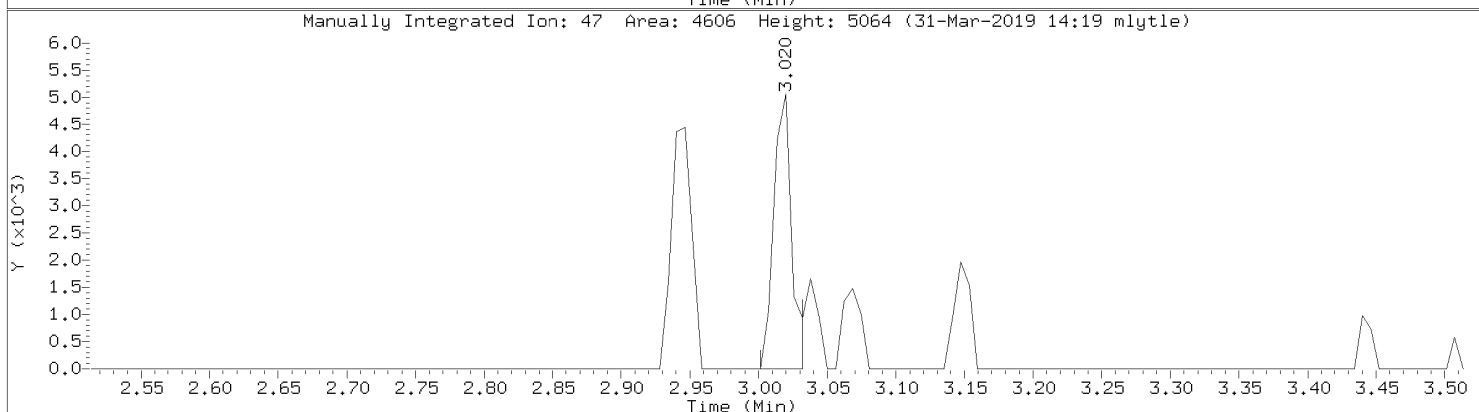
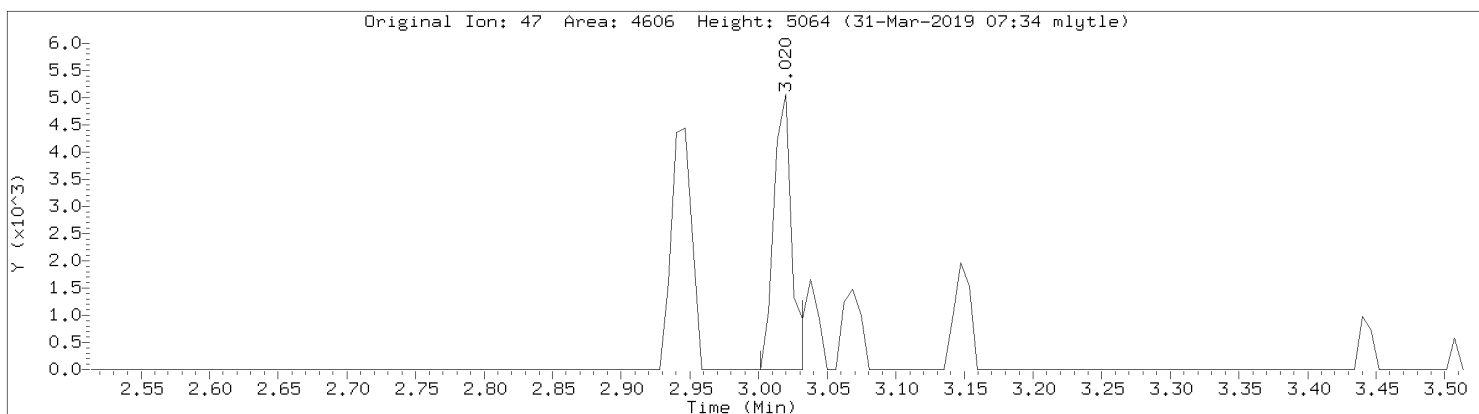


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08921.D
Injection Date: 30-MAR-2019 16:17
Instrument: 10airI.i
Lab Sample ID: 10468767013

Compound: 1,1-Difluoroethane
CAS Number: 75-37-6

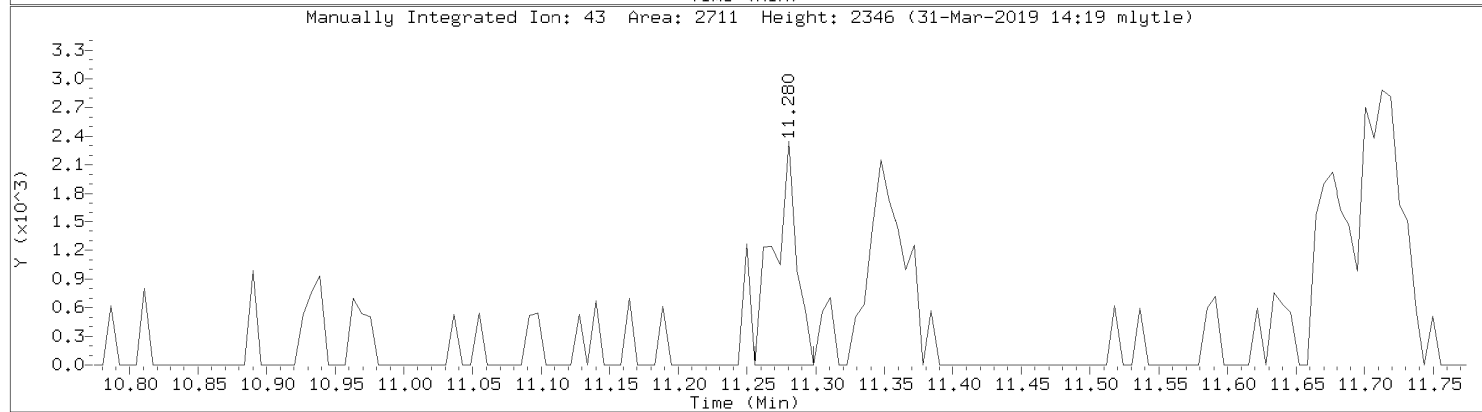
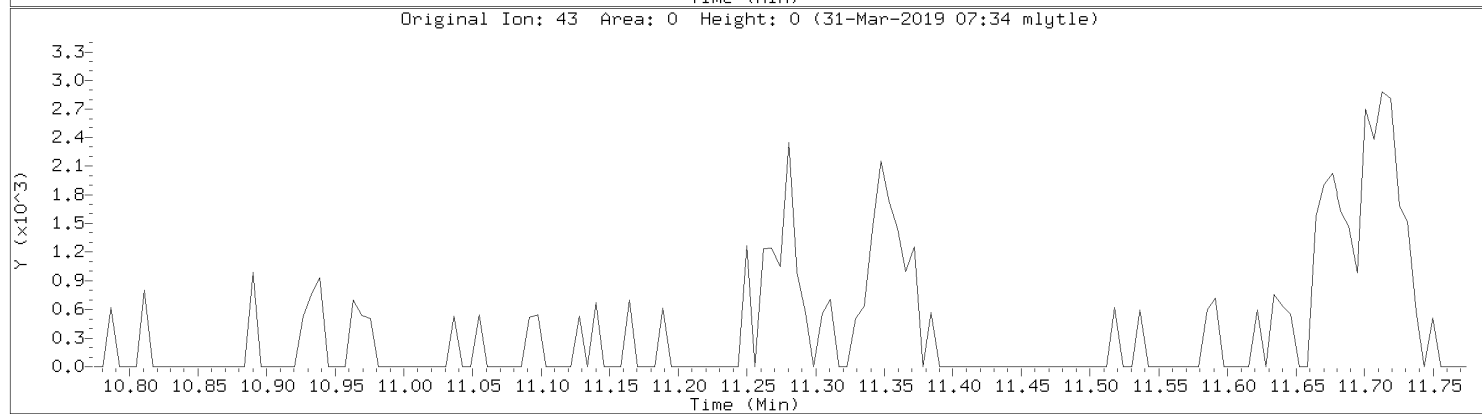
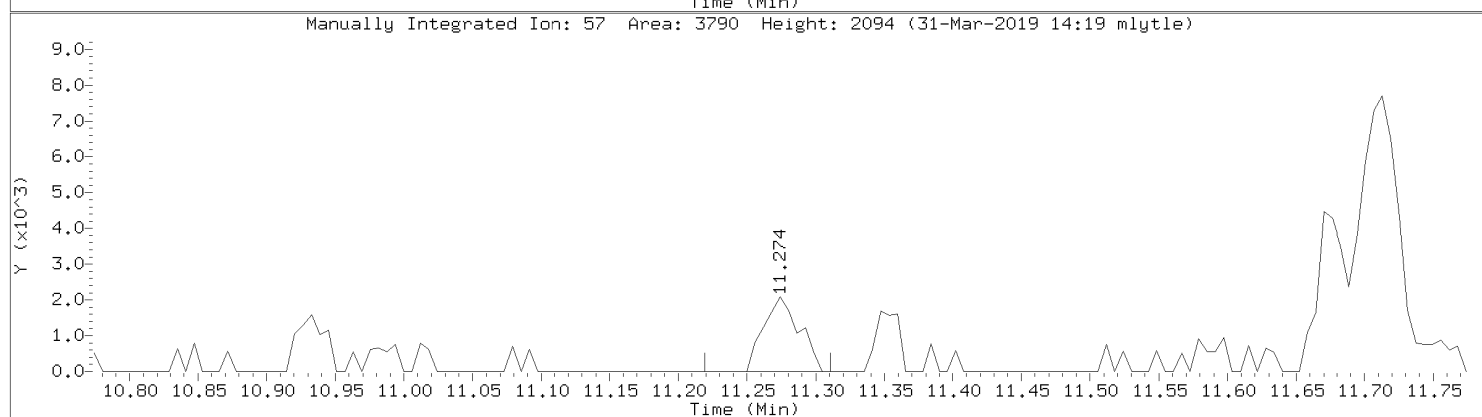
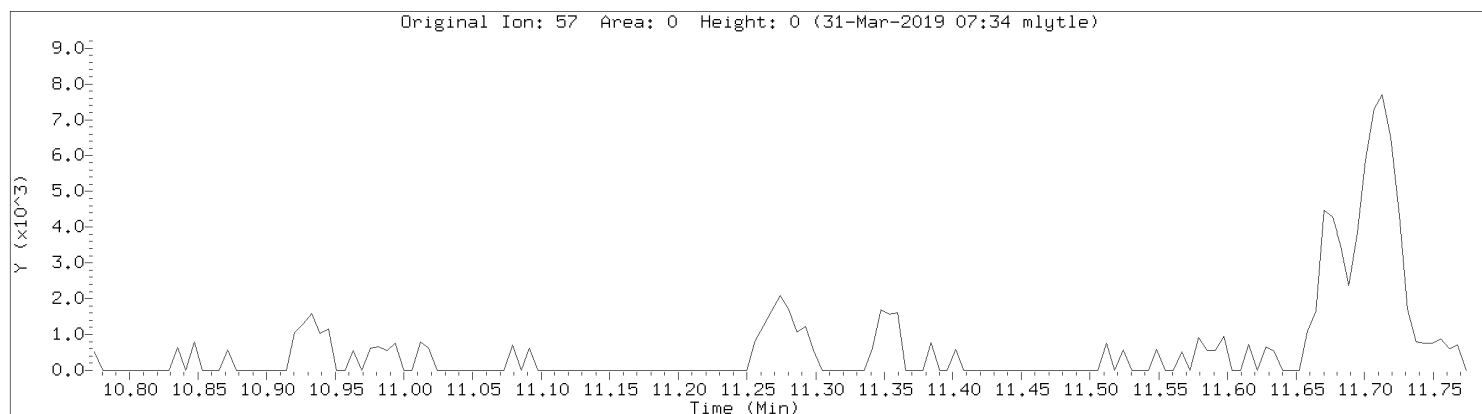


Data File: \\192.168.10.12\chem\10airI.i\033019.b\08921.D
Injection Date: 30-MAR-2019 16:17
Instrument: 10airI.i
Lab Sample ID: 10468767013



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08921.D
Injection Date: 30-MAR-2019 16:17
Instrument: 10airI.i
Lab Sample ID: 10468767013

Compound: n-Decane
CAS Number: 124-18-5



Data File: \\192.168.10.12\chem\10airI.i\033019.b\08921.D
Injection Date: 30-MAR-2019 16:17
Instrument: 10airI.i
Lab Sample ID: 10468767013

