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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2037647

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Project Name: 160 EAST 125TH STREET
Project Number: 100433203

Lab Number: L2037647
Report Date: 09/17/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2037647-01	046/LSV-3	SOIL_VAPOR	NEW YORK, NY	09/10/20 11:46	09/10/20
L2037647-02	047/LSV-2	SOIL_VAPOR	NEW YORK, NY	09/10/20 12:02	09/10/20
L2037647-03	048/LSV-5	SOIL_VAPOR	NEW YORK, NY	09/10/20 12:10	09/10/20
L2037647-04	049/LSV-6	SOIL_VAPOR	NEW YORK, NY	09/10/20 12:42	09/10/20
L2037647-05	050/DUP-1	SOIL_VAPOR	NEW YORK, NY	09/10/20 12:42	09/10/20
L2037647-06	051/LSV-9	SOIL_VAPOR	NEW YORK, NY	09/10/20 13:23	09/10/20
L2037647-07	052/LSV-11	SOIL_VAPOR	NEW YORK, NY	09/10/20 13:22	09/10/20
L2037647-08	053/LSV-10	SOIL_VAPOR	NEW YORK, NY	09/10/20 13:48	09/10/20
L2037647-09	054/LSV-4	SOIL_VAPOR	NEW YORK, NY	09/10/20 15:23	09/10/20
L2037647-10	055/LSV-8	SOIL_VAPOR	NEW YORK, NY	09/10/20 15:51	09/10/20

Project Name: 160 EAST 125TH STREET
Project Number: 100433203

Lab Number: L2037647
Report Date: 09/17/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 160 EAST 125TH STREET
Project Number: 100433203

Lab Number: L2037647
Report Date: 09/17/20

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on September 10, 2020. The canister certification results are provided as an addendum.

L2037647-07: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2037647-09: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Sample Receipt

The canister ID number for the sample designated 050/DUP-1 (L2037647-05) is listed on the CoC as 2946 but should be 2948.

The flow controller ID number for the sample designated 055/LSV-8 (L2037647-10) is listed on the CoC as 0589 but should be 0559.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Report Date: 09/17/20

Title: Technical Director/Representative

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCS D	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report



Project Name: 160 EAST 125TH STREET
Project Number: 100433203

Lab Number: L2037647
Report Date: 09/17/20

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenzo(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

Report Format: Data Usability Report



Project Name: 160 EAST 125TH STREET
Project Number: 100433203

Lab Number: L2037647
Report Date: 09/17/20

Data Qualifiers

- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- ND** - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report





Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: EST Encon (or equivalent)
 Autosampler: EST Centurion (or equivalent)
 Purge time: 11 min

Columns (length x ID x df):
 RTX-VMS 20m x 0.18mm x 1um
 RTX-VMS 30m x 0.25mm x 1.4um
 RTX-502.2 40m x 0.18mm x 1um

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: EST Encon (or equivalent)
 Autosampler: EST Centurion (or equivalent)

Column Type: Restek RTX 502.2
 Column Length: 105 Meters
 df: 3.00 um
 ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD
 Trap: Supelco K Trap (VOACARB 3000)
 Concentrator: Tekmar Velocity / EST Encon
 Autosampler: Varian Archon / EST Centurion
 Purge time: 11 min

Column Type: DB-VRX
 Column Length: 60 Meters
 df: 1.40 um
 ID: 0.25 mm
 Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD

Column Type: Haysep S Column
 Column Length: 2 Meters packed
 (100/200 mesh)

Autosampler: LEAP Headspace

Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200
 Autosampler: Entech 7016CA or 7016D

Column Type: Restek RTX-1
 Column Length: 60 Meters
 df: 1.00 um
 ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material

Trap 2: Tenax: manufacturer-Entech: 20 cm packing material



Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 μ L; 2 μ L LVI
Column Type: Restek RXI-5SILMS	df: 0.32 μ m
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 μ L; 2 μ L LVI
Column Type: Restek RXI-5SILMS	df: 0.25 μ m
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1 μ L
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLP Pesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1 μ L
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	



Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm



Sample Delivery Group Summary

Alpha Job Number : L2037647

Received : 10-SEP-2020

Reviewer : Dylan Snook

Account Name : Langan Engineering & Environmental

Project Number : 100433203

Project Name : 160 EAST 125TH STREET

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Absent/			

Condition Information

1) All samples on COC received?	YES
2) Extra samples received?	NO
3) Are there any sample container discrepancies?	NO
4) Are there any discrepancies between sample labels & COC? L2037647-05: Can ID #2946 vs. Can ID #2948 L2037647-08: 053/LSV-10 vs. LSV-10 L2037647-10: FC ID #0589 vs. FC ID #0559	YES
5) Are samples in appropriate containers for requested analysis?	YES
6) Are samples properly preserved for requested analysis?	YES
7) Are samples within holding time for requested analysis?	YES
8) All sampling equipment returned?	YES

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	NA

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Sep 17 2020, 01:26 pm

Login Number: L2037647

Account: LANGAN-NJ Langan Engineering & Environmental Project: 100433203

Received: 10SEP20 Due Date: 17SEP20

Sample #	Client ID	Mat PR Collected
L2037647-01 046/LSV-3		11 S0 10SEP20 11:46
ASP-B Package Due Date: 09/17/20		
ASP-B, CAN-RENT, FLOW-RENT, T015-LL		
L2037647-02 047/LSV-2		11 S0 10SEP20 12:02
Package Due Date: 09/17/20		
CAN-RENT, FLOW-RENT, T015-LL		
L2037647-03 048/LSV-5		11 S0 10SEP20 12:10
Package Due Date: 09/17/20		
CAN-RENT, FLOW-RENT, T015-LL		
L2037647-04 049/LSV-6		11 S0 10SEP20 12:42
Package Due Date: 09/17/20		
CAN-RENT, FLOW-RENT, T015-LL		
L2037647-05 050/DUP-1		11 S0 10SEP20 12:42
Package Due Date: 09/17/20		
CAN-RENT, FLOW-RENT, T015-LL		
L2037647-06 051/LSV-9		11 S0 10SEP20 13:23
Package Due Date: 09/17/20		
CAN-RENT, FLOW-RENT, T015-LL		
L2037647-07 052/LSV-11		11 S0 10SEP20 13:22
Package Due Date: 09/17/20		

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Sep 17 2020, 01:26 pm

Login Number: L2037647

Account: LANGAN-NJ Langan Engineering & Environmental Project: 100433203

Received: 10SEP20 Due Date: 17SEP20

Sample # Client ID Mat PR Collected

CAN-RENT, FLOW-RENT, T015-LL

L2037647-08 053/LSV-10

11 S0 10SEP20 13:48

| Package Due Date: 09/17/20

CAN-RENT, FLOW-RENT, T015-LL

L2037647-09 054/LSV-4

11 S0 10SEP20 15:23

| Package Due Date: 09/17/20

CAN-RENT, FLOW-RENT, T015-LL

L2037647-10 055/LSV-8

11 S0 10SEP20 15:51

| Package Due Date: 09/17/20

CAN-RENT, FLOW-RENT, T015-LL



AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: LANGAN
Address: 300 Kimball Dr
Parsippany, NJ
Phone: 973-560-4900
Fax: 973-560-4901
Email: aksitzer@langan.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

Project Information

Project Name: 160 East 125th Street
Project Location: New York, NY
Project #: 100433203
Project Manager: Ben Rao
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

Time:

Date Rec'd in Lab: 9/11/20

Report Information - Data Deliverables

☐ FAX
☐ ADEX
Criteria Checker: ASP B package
(Default based on Regulatory Criteria Indicated)
Other Formats:
☐ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

ALPHA Job #: L2037647

Billing Information

☒ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program Res / Comm

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION						Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum												
37647-01	0461 LSV-3	9/10/2020	0936	1146	-30.14	-4.28	SV	EA	6L	3327	01509	✓						
02	0471 LSV-2		0952	1202	-30.19	-3.64				2632	01105	✓						
03	0481 LSV-5		1010	1210	-30.11	-4.43				2053	0341	✓						
04	0491 LSV-6		1040	1242	-29.72	-6.43				1779	01447	✓						
05	0501 DUP-1		1040	1242	-30.85	-1.00				2446	01462	✓						
06	0511 LSV-9		1110	1323	-30.44	-4.90				3045	01448	✓						
07	0521 LSV-11		1122	1322	-30.14	-3.51				2258	0444	✓						
08	0531 LSV-10		1135	1348	-30.46	-4.30				2281	0444	✓						
09	0541 LSV-4		1317	1523	-30.08	-3.68				2000	01730	✓						
10	0551 LSV-8		1338	1551	-29.99	-5.38				2409	0589	✓						

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:

Date/Time

Received By:

Date/Time:

Esther Ark (Langan) 9/10/2020 1600 W. F. Arcand (AA) 9/10/2020 1600
W. F. Arcand (AA) 9/10/2020 1600 W. F. Arcand (AA) 9/11/2020 01:30
7/9/11 ALB

Supporting Documentation

Project Name: 160 EAST 125TH STREET

Lab Number: L2037647

Project Number: 100433203

Report Date: 09/17/20

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2037647-01	046/LSV-3	01509	Flow 2	09/10/20	329537		-	-	-	Pass	40.0	41.1	3
L2037647-01	046/LSV-3	3327	6.0L Can	09/10/20	329537	L2036663-02	Pass	-29.5	-3.7	-	-	-	-
L2037647-02	047/LSV-2	01105	Flow 2	09/10/20	329537		-	-	-	Pass	40.0	39.9	0
L2037647-02	047/LSV-2	2632	6.0L Can	09/10/20	329537	L2036663-02	Pass	-29.7	-3.0	-	-	-	-
L2037647-03	048/LSV-5	0341	Flow 2	09/10/20	329537		-	-	-	Pass	40.0	40.7	2
L2037647-03	048/LSV-5	2053	6.0L Can	09/10/20	329537	L2036663-02	Pass	-29.6	-3.9	-	-	-	-
L2037647-04	049/LSV-6	01497	Flow 2	09/10/20	329537		-	-	-	Pass	40.0	39.7	1
L2037647-04	049/LSV-6	1779	6.0L Can	09/10/20	329537	L2036663-02	Pass	-29.7	-5.9	-	-	-	-
L2037647-05	050/DUP-1	01462	Flow 2	09/10/20	329537		-	-	-	Pass	40.0	39.9	0
L2037647-05	050/DUP-1	2948	6.0L Can	09/10/20	329537	L2036387-05	Pass	-29.7	0.0	-	-	-	-
L2037647-06	051/LSV-9	01448	Flow 2	09/10/20	329537		-	-	-	Pass	40.0	38.0	5
L2037647-06	051/LSV-9	3045	6.0L Can	09/10/20	329537	L2036387-05	Pass	-29.5	-4.1	-	-	-	-
L2037647-07	052/LSV-11	0444	Flow 2	09/10/20	329537		-	-	-	Pass	40.0	42.3	6
L2037647-07	052/LSV-11	2587	6.0L Can	09/10/20	329537	L2036663-02	Pass	-29.7	-3.2	-	-	-	-
L2037647-08	053/LSV-10	0944	Flow 2	09/10/20	329537		-	-	-	Pass	40.0	40.1	0

Project Name: 160 EAST 125TH STREET

Lab Number: L2037647

Project Number: 100433203

Report Date: 09/17/20

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2037647-08	053/LSV-10	2281	6.0L Can	09/10/20	329537	L2036387-05	Pass	-29.6	-4.0	-	-	-	-
L2037647-09	054/LSV-4	01730	Flow 2	09/10/20	329537		-	-	-	Pass	40.0	40.8	2
L2037647-09	054/LSV-4	2000	6.0L Can	09/10/20	329537	L2036663-02	Pass	-29.7	-3.5	-	-	-	-
L2037647-10	055/LSV-8	0559	Flow 2	09/10/20	329537		-	-	-	Pass	40.0	38.6	4
L2037647-10	055/LSV-8	2909	6.0L Can	09/10/20	329537	L2036663-02	Pass	-29.6	-5.0	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2036387
Report Date: 09/17/20

Air Canister Certification Results

Lab ID: L2036387-05
 Client ID: CAN 1700 SHELF 57
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 09/04/20 21:21
 Analyst: TS

Date Collected: 09/02/20 16:00
 Date Received: 09/03/20
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2036387
Report Date: 09/17/20

Air Canister Certification Results

Lab ID: L2036387-05
 Client ID: CAN 1700 SHELF 57
 Sample Location:

Date Collected: 09/02/20 16:00
 Date Received: 09/03/20
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2036387
Report Date: 09/17/20

Air Canister Certification Results

Lab ID: L2036387-05
 Client ID: CAN 1700 SHELF 57
 Sample Location:

Date Collected: 09/02/20 16:00
 Date Received: 09/03/20
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2036387
Report Date: 09/17/20

Air Canister Certification Results

Lab ID: L2036387-05
 Client ID: CAN 1700 SHELF 57
 Sample Location:

Date Collected: 09/02/20 16:00
 Date Received: 09/03/20
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
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Lab Number: L2036387
Report Date: 09/17/20

Air Canister Certification Results

Lab ID: L2036387-05
Client ID: CAN 1700 SHELF 57
Sample Location:

Date Collected: 09/02/20 16:00
Date Received: 09/03/20
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	94		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2036387
Report Date: 09/17/20

Air Canister Certification Results

Lab ID: L2036387-05
 Client ID: CAN 1700 SHELF 57
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 09/04/20 21:21
 Analyst: TS

Date Collected: 09/02/20 16:00
 Date Received: 09/03/20
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2036387
Report Date: 09/17/20

Air Canister Certification Results

Lab ID: L2036387-05
 Client ID: CAN 1700 SHELF 57
 Sample Location:

Date Collected: 09/02/20 16:00
 Date Received: 09/03/20
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2036387
Report Date: 09/17/20

Air Canister Certification Results

Lab ID: L2036387-05
 Client ID: CAN 1700 SHELF 57
 Sample Location:

Date Collected: 09/02/20 16:00
 Date Received: 09/03/20
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	104		60-140
bromochloromethane	104		60-140
chlorobenzene-d5	99		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2036663
Report Date: 09/17/20

Air Canister Certification Results

Lab ID: L2036663-02
 Client ID: CAN 787 SHELF 31
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 09/04/20 23:19
 Analyst: TS

Date Collected: 09/03/20 16:00
 Date Received: 09/04/20
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2036663
Report Date: 09/17/20

Air Canister Certification Results

Lab ID: L2036663-02
 Client ID: CAN 787 SHELF 31
 Sample Location:

Date Collected: 09/03/20 16:00
 Date Received: 09/04/20
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2036663
Report Date: 09/17/20

Air Canister Certification Results

Lab ID: L2036663-02
Client ID: CAN 787 SHELF 31
Sample Location:

Date Collected: 09/03/20 16:00
Date Received: 09/04/20
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2036663
Report Date: 09/17/20

Air Canister Certification Results

Lab ID: L2036663-02
 Client ID: CAN 787 SHELF 31
 Sample Location:

Date Collected: 09/03/20 16:00
 Date Received: 09/04/20
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2036663
Report Date: 09/17/20

Air Canister Certification Results

Lab ID: L2036663-02
Client ID: CAN 787 SHELF 31
Sample Location:

Date Collected: 09/03/20 16:00
Date Received: 09/04/20
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	99		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	96		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2036663
Report Date: 09/17/20

Air Canister Certification Results

Lab ID: L2036663-02
 Client ID: CAN 787 SHELF 31
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 09/04/20 23:19
 Analyst: TS

Date Collected: 09/03/20 16:00
 Date Received: 09/04/20
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2036663
Report Date: 09/17/20

Air Canister Certification Results

Lab ID: L2036663-02
 Client ID: CAN 787 SHELF 31
 Sample Location:

Date Collected: 09/03/20 16:00
 Date Received: 09/04/20
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2036663
Report Date: 09/17/20

Air Canister Certification Results

Lab ID: L2036663-02
Client ID: CAN 787 SHELF 31
Sample Location:

Date Collected: 09/03/20 16:00
Date Received: 09/04/20
Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	107		60-140
bromochloromethane	104		60-140
chlorobenzene-d5	100		60-140



Organics

Volatile Organics in Air TO-15 Low Level

Volatiles QC Summary

Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Langan Engineering & Environmental Lab Number : L2037647
 Project Name : 160 EAST 125TH STREET Project Number : 100433203
 Matrix : AIR
 LCS Sample ID : WG1410723-3 Analysis Date : 09/16/20 12:20 File ID : r1619116
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Dichlorodifluoromethane	10	9.32	93				-	70-130	-
Chloromethane	10	8.81	88				-	70-130	-
Freon-114	10	9.38	94				-	70-130	-
Vinyl chloride	10	9.17	92				-	70-130	-
1,3-Butadiene	10	9.29	93				-	70-130	-
Bromomethane	10	9.63	96				-	70-130	-
Chloroethane	10	9.48	95				-	70-130	-
Ethanol	50	43.8	88				-	40-160	-
Vinyl bromide	10	9.18	92				-	70-130	-
Acetone	50	40.4	81				-	40-160	-
Trichlorofluoromethane	10	10.1	101				-	70-130	-
Isopropanol	25	19.9	80				-	40-160	-
1,1-Dichloroethene	10	10.2	102				-	70-130	-
Tertiary butyl Alcohol	10	8.86	89				-	70-130	-
Methylene chloride	10	9.84	98				-	70-130	-
3-Chloropropene	10	10.3	103				-	70-130	-
Carbon disulfide	10	8.78	88				-	70-130	-
Freon-113	10	10.2	102				-	70-130	-
trans-1,2-Dichloroethene	10	9.40	94				-	70-130	-
1,1-Dichloroethane	10	9.81	98				-	70-130	-
Methyl tert butyl ether	10	8.96	90				-	70-130	-
2-Butanone	10	9.74	97				-	70-130	-
cis-1,2-Dichloroethene	10	10.2	102				-	70-130	-
Ethyl Acetate	10	9.77	98				-	70-130	-
Chloroform	10	10.4	104				-	70-130	-
Tetrahydrofuran	10	9.54	95				-	70-130	-



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Langan Engineering & Environmental Lab Number : L2037647
 Project Name : 160 EAST 125TH STREET Project Number : 100433203
 Matrix : AIR
 LCS Sample ID : WG1410723-3 Analysis Date : 09/16/20 12:20 File ID : r1619116
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
1,2-Dichloroethane	10	10.5	105				-	70-130	-
n-Hexane	10	9.70	97				-	70-130	-
1,1,1-Trichloroethane	10	9.87	99				-	70-130	-
Benzene	10	9.23	92				-	70-130	-
Carbon tetrachloride	10	10.2	102				-	70-130	-
Cyclohexane	10	9.48	95				-	70-130	-
1,2-Dichloropropane	10	9.95	100				-	70-130	-
Bromodichloromethane	10	9.98	100				-	70-130	-
1,4-Dioxane	10	9.66	97				-	70-130	-
Trichloroethene	10	10.1	101				-	70-130	-
2,2,4-Trimethylpentane	10	9.82	98				-	70-130	-
Heptane	10	9.82	98				-	70-130	-
cis-1,3-Dichloropropene	10	9.83	98				-	70-130	-
4-Methyl-2-pentanone	10	10.2	102				-	70-130	-
trans-1,3-Dichloropropene	10	8.57	86				-	70-130	-
1,1,2-Trichloroethane	10	10.2	102				-	70-130	-
Toluene	10	9.38	94				-	70-130	-
2-Hexanone	10	9.52	95				-	70-130	-
Dibromochloromethane	10	10.0	100				-	70-130	-
1,2-Dibromoethane	10	9.61	96				-	70-130	-
Tetrachloroethene	10	9.61	96				-	70-130	-
Chlorobenzene	10	9.70	97				-	70-130	-
Ethylbenzene	10	9.72	97				-	70-130	-
p/m-Xylene	20	19.7	98				-	70-130	-
Bromoform	10	10.1	101				-	70-130	-
Styrene	10	9.61	96				-	70-130	-

Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Langan Engineering & Environmental Lab Number : L2037647
 Project Name : 160 EAST 125TH STREET Project Number : 100433203
 Matrix : AIR
 LCS Sample ID : WG1410723-3 Analysis Date : 09/16/20 12:20 File ID : r1619116
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
1,1,2,2-Tetrachloroethane	10	9.97	100				-	70-130	-
o-Xylene	10	9.98	100				-	70-130	-
4-Ethyltoluene	10	9.72	97				-	70-130	-
1,3,5-Trimethylbenzene	10	9.75	98				-	70-130	-
1,2,4-Trimethylbenzene	10	10.4	104				-	70-130	-
Benzyl chloride	10	9.63	96				-	70-130	-
1,3-Dichlorobenzene	10	10.4	104				-	70-130	-
1,4-Dichlorobenzene	10	10.2	102				-	70-130	-
1,2-Dichlorobenzene	10	10.2	102				-	70-130	-
1,2,4-Trichlorobenzene	10	9.65	96				-	70-130	-
Hexachlorobutadiene	10	10.5	105				-	70-130	-

Method Blank Summary
Form 4
Air Volatiles

Client	: Langan Engineering & Environmental	Lab Number	: L2037647
Project Name	: 160 EAST 125TH STREET	Project Number	: 100433203
Lab Sample ID	: WG1410723-4	Lab File ID	: r1619118
Instrument ID	: AIRLAB16		
Matrix	: AIR	Analysis Date	: 09/16/20 14:48

Client Sample No.	Lab Sample ID	Analysis Date
WG1410723-3LCS	WG1410723-3	09/16/20 12:20
SSDS ZONE 2DUP	WG1410723-5	09/16/20 18:11
046/LSV-3	L2037647-01	09/16/20 20:50
047/LSV-2	L2037647-02	09/16/20 21:30
048/LSV-5	L2037647-03	09/16/20 22:10
049/LSV-6	L2037647-04	09/16/20 22:50
050/DUP-1	L2037647-05	09/16/20 23:29
051/LSV-9	L2037647-06	09/17/20 00:09
052/LSV-11	L2037647-07D	09/17/20 00:47
053/LSV-10	L2037647-08	09/17/20 01:27
054/LSV-4	L2037647-09D	09/17/20 02:05
055/LSV-8	L2037647-10	09/17/20 02:45

Instrument Performance Check (Tune) Summary

Form 5

Air Volatiles

Bromofluorobenzene (BFB)

Client : Langan Engineering & Environmental	Lab Number : L2037647
Project Name : 160 EAST 125TH STREET	Project Number : 100433203
Instrument ID : AIRLAB16	Analysis Date : 09/02/20 14:42
Tune Standard : WG1406250-1	Tune File ID : r1618840_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	13.9
75	30.0 - 66.0% of mass 95	36.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (.5)1
174	50.0 - 120.0% of mass 95	63.1
175	4.0 - 9.0% of mass 174	4.4 (6.9)1
176	93.0 - 101% of mass 174	60.4 (95.8)1
177	5.0 - 9.0% of mass 176	3.9 (6.5)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.2	R1346354-1	R1618844	09/02/20 17:22
STD0.5	R1346354-2	R1618845	09/02/20 18:01
STD1.0	R1346354-3	R1618846	09/02/20 18:44
STD5.0	R1346354-4	R1618847	09/02/20 19:24
STD010	R1346354-5	R1618848	09/02/20 20:06
STD020	R1346354-6	R1618849	09/02/20 20:44
STD050	R1346354-7	R1618850	09/02/20 21:24
STD100	R1346354-8	R1618851	09/02/20 22:06
ICV QUANT	R1346354-9	R1618854	09/03/20 07:33

Instrument Performance Check (Tune) Summary

Form 5

Air Volatiles

Bromofluorobenzene (BFB)

Client	: Langan Engineering & Environmental	Lab Number	: L2037647
Project Name	: 160 EAST 125TH STREET	Project Number	: 100433203
Instrument ID	: AIRLAB16	Analysis Date	: 09/16/20 10:56
Tune Standard	: WG1410723-1	Tune File ID	: r1619114_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	13.5
75	30.0 - 66.0% of mass 95	35.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (.5)1
174	50.0 - 120.0% of mass 95	63.5
175	4.0 - 9.0% of mass 174	4.4 (6.9)1
176	93.0 - 101% of mass 174	61.2 (96.4)1
177	5.0 - 9.0% of mass 176	3.9 (6.3)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1410723-2CCAL	WG1410723-2	R1619115	09/16/20 11:38
WG1410723-3LCS	WG1410723-3	R1619116	09/16/20 12:20
WG1410723-4BLANK	WG1410723-4	R1619118	09/16/20 14:48
WG1410723-5DUP	WG1410723-5	R1619122	09/16/20 18:11
046/LSV-3	L2037647-01	R1619126	09/16/20 20:50
047/LSV-2	L2037647-02	R1619127	09/16/20 21:30
048/LSV-5	L2037647-03	R1619128	09/16/20 22:10
049/LSV-6	L2037647-04	R1619129	09/16/20 22:50
050/DUP-1	L2037647-05	R1619130	09/16/20 23:29
051/LSV-9	L2037647-06	R1619131	09/17/20 00:09
052/LSV-11	L2037647-07D	R1619132	09/17/20 00:47
053/LSV-10	L2037647-08	R1619133	09/17/20 01:27
054/LSV-4	L2037647-09D	R1619134	09/17/20 02:05
055/LSV-8	L2037647-10	R1619135	09/17/20 02:45

Internal Standard Area and RT Summary

Form 8a

Air Volatiles

Client	: Langan Engineering & Environmental	Lab Number	: L2037647
Project Name	: 160 EAST 125TH STREET	Project Number	: 100433203
Instrument ID	: AIRLAB16	Analysis Date	: 09/16/20 11:38
Sample No	: WG1410723-2	Lab File ID	: R1619115

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1410723-2	289019	9.39	862875	11.67	122360	16.40
Upper Limit	404627	9.72	1208025	12.00	171304	16.73
Lower Limit	173411	9.06	517725	11.34	73416	16.07
Sample ID						
WG1410723-3 LCS	293005	9.39	869280	11.67	122402	16.40
WG1410723-4 BLANK	307422	9.40	877447	11.67	118375	16.40
SSDS ZONE 2 DUP	261046	9.40	822096	11.67	116251	16.41
046/LSV-3	258916	9.41	840530	11.67	120293	16.41
047/LSV-2	250961	9.41	826145	11.67	112204	16.41
048/LSV-5	236805	9.41	803455	11.68	107431	16.41
049/LSV-6	227850	9.41	794220	11.68	117923	16.41
050/DUP-1	230045	9.40	788096	11.67	114275	16.41
051/LSV-9	236351	9.41	785653	11.68	103041	16.41
052/LSV-11	228896	9.41	777668	11.68	102306	16.41
053/LSV-10	231375	9.41	769123	11.68	100833	16.41
054/LSV-4	231967	9.41	775152	11.68	103277	16.41
055/LSV-8	231440	9.41	788604	11.68	103139	16.41

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

* Values outside of QC limits





Date Created: 11/22/19
Created By: Jason Hebert
File: PM7756-1
Page: 1

Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,1-Trichloroethane	71-55-6	0.2	0.0501	ppbV	70-130			25	25			
1,1,2,2-Tetrachloroethane	79-34-5	0.2	0.0614	ppbV	70-130			25	25			
1,1,2-Trichloroethane	79-00-5	0.2	0.067	ppbV	70-130			25	25			
1,1-Dichloroethane	75-34-3	0.2	0.0628	ppbV	70-130			25	25			
1,1-Dichloroethene	75-35-4	0.2	0.0643	ppbV	70-130			25	25			
1,2,3-Trimethylbenzene	526-73-8	0.2	0.0576	ppbV	70-130			25	25			
1,2,4-Trichlorobenzene	120-82-1	0.2	0.0674	ppbV	70-130			25	25			
1,2,4-Trimethylbenzene	95-63-6	0.2	0.0368	ppbV	70-130			25	25			
1,2,4,5-Tetramethylbenzene	95-93-2	0.2	0.0604	ppbV	70-130			25	25			
1,2-Dibromoethane	106-93-4	0.2	0.0561	ppbV	70-130			25	25			
1,2-Dichlorobenzene	95-50-1	0.2	0.0628	ppbV	70-130			25	25			
1,2-Dichloroethane	107-06-2	0.2	0.0602	ppbV	70-130			25	25			
1,2-Dichloropropane	78-87-5	0.2	0.061	ppbV	70-130			25	25			
1,3,5-Trimethylbenzene	108-67-8	0.2	0.0675	ppbV	70-130			25	25			
1,3-Butadiene	106-99-0	0.2	0.067	ppbV	70-130			25	25			
1,3-Dichlorobenzene	541-73-1	0.2	0.0627	ppbV	70-130			25	25			
1,4-Dichlorobenzene	106-46-7	0.2	0.0636	ppbV	70-130			25	25			
1,4-Dioxane	123-91-1	0.2	0.0805	ppbV	70-130			25	25			
2,2,4-Trimethylpentane	540-84-1	0.2	0.0361	ppbV	70-130			25	25			
2-Butanone	78-93-3	0.5	0.0482	ppbV	70-130			25	25			
2-Hexanone	591-78-6	0.2	0.0648	ppbV	70-130			25	25			
2-Methylthiophene	554-14-3	0.2	0.0524	ppbV	70-130			25	25			
3-Methylthiophene	616-44-4	0.2	0.0393	ppbV	70-130			25	25			
3-Chloropropene	107-05-1	0.2	0.0585	ppbV	70-130			25	25			
2-Ethylthiophene	872-55-9	0.2	0.0407	ppbV	70-130			25	25			
4-Ethyltoluene	622-96-8	0.2	0.037	ppbV	70-130			25	25			
Acetone	67-64-1	1	0.689	ppbV	40-160			25	25			
Benzene	71-43-2	0.2	0.0487	ppbV	70-130			25	25			
Benzyl chloride	100-44-7	0.2	0.0482	ppbV	70-130			25	25			
Benzothiophene	95-15-8	0.5	0.077	ppbV	70-130			25	25			
Bromodichloromethane	75-27-4	0.2	0.0504	ppbV	70-130			25	25			
Bromoform	75-25-2	0.2	0.0641	ppbV	70-130			25	25			
Bromomethane	74-83-9	0.2	0.0773	ppbV	70-130			25	25			
Carbon disulfide	75-15-0	0.2	0.0559	ppbV	70-130			25	25			
Carbon tetrachloride	56-23-5	0.2	0.0499	ppbV	70-130			25	25			
Chlorobenzene	108-90-7	0.2	0.0624	ppbV	70-130			25	25			
Chloroethane	75-00-3	0.2	0.0805	ppbV	70-130			25	25			
Chloroform	67-66-3	0.2	0.0633	ppbV	70-130			25	25			
Chloromethane	74-87-3	0.2	0.0689	ppbV	70-130			25	25			
cis-1,2-Dichloroethene	156-59-2	0.2	0.117	ppbV	70-130			25	25			
cis-1,3-Dichloropropene	10061-01-5	0.2	0.0409	ppbV	70-130			25	25			
Cyclohexane	110-82-7	0.2	0.0368	ppbV	70-130			25	25			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Page: 2

Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibromochloromethane	124-48-1	0.2	0.0614	ppbV	70-130			25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.0583	ppbV	70-130			25	25			
Ethyl Alcohol	64-17-5	5	0.733	ppbV	40-160			25	25			
Ethyl Acetate	141-78-6	0.5	0.122	ppbV	70-130			25	25			
Ethylbenzene	100-41-4	0.2	0.0432	ppbV	70-130			25	25			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.2	0.0656	ppbV	70-130			25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.2	0.0591	ppbV	70-130			25	25			
Hexachlorobutadiene	87-68-3	0.2	0.0529	ppbV	70-130			25	25			
iso-Propyl Alcohol	67-63-0	0.5	0.478	ppbV	40-160			25	25			
Methylene chloride	75-09-2	0.5	0.134	ppbV	70-130			25	25			
4-Methyl-2-pentanone	108-10-1	0.5	0.0421	ppbV	70-130			25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.0525	ppbV	70-130			25	25			
Methyl Methacrylate	80-62-6	0.5	0.0697	ppbV	40-160			25	25			
p/m-Xylene	179601-23-1	0.4	0.091	ppbV	70-130			25	25			
o-Xylene	95-47-6	0.2	0.0453	ppbV	70-130			25	25			
Xylene (Total)	1330-20-7	0.2	0.0453	ppbV	70-130			25	25			
Heptane	142-82-5	0.2	0.047	ppbV	70-130			25	25			
n-Heptane	142-82-5	0.2	0.047	ppbV	70-130			25	25			
n-Hexane	110-54-3	0.2	0.0364	ppbV	70-130			25	25			
Propylene	115-07-1	0.5	0.0599	ppbV	70-130			25	25			
Styrene	100-42-5	0.2	0.0434	ppbV	70-130			25	25			
Tetrachloroethene	127-18-4	0.2	0.0655	ppbV	70-130			25	25			
Thiophene	110-02-1	0.2	0.0389	ppbV	70-130			25	25			
Tetrahydrofuran	109-99-9	0.5	0.0568	ppbV	70-130			25	25			
Toluene	108-88-3	0.2	0.052	ppbV	70-130			25	25			
trans-1,2-Dichloroethene	156-60-5	0.2	0.0643	ppbV	70-130			25	25			
1,2-Dichloroethene (total)	540-59-0	0.2	0.0643	ppbV	70-130			25	25			
trans-1,3-Dichloropropene	10061-02-6	0.2	0.0436	ppbV	70-130			25	25			
1,3-Dichloropropene, Total	542-75-6	0.2	0.0409	ppbV	70-130			25	25			
Trichloroethene	79-01-6	0.2	0.0505	ppbV	70-130			25	25			
Trichlorofluoromethane	75-69-4	0.2	0.0686	ppbV	70-130			25	25			
Vinyl acetate	108-05-4	1	0.0479	ppbV	70-130			25	25			
Vinyl bromide	593-60-2	0.2	0.0717	ppbV	70-130			25	25			
Vinyl chloride	75-01-4	0.2	0.0627	ppbV	70-130			25	25			
Naphthalene	91-20-3	0.2	0.0885	ppbV	70-130			25	25			
Total HC As Hexane	NONE	10	0.0364	ppbV	70-130			25	25			
Total VOCs As Toluene	NONE	10	0.052	ppbV	70-130			25	25			
Propane	74-98-6	0.5	0.132	ppbV	70-130			25	25			
Acrylonitrile	107-13-1	0.5	0.0555	ppbV	70-130			25	25			
Acrolein	107-02-8	0.5	0.0596	ppbV	70-130			25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.2	0.0561	ppbV	70-130			25	25			
Isopropylbenzene	98-82-8	0.2	0.0491	ppbV	70-130			25	25			

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Created By: Jason Hebert
File: PM7756-1
Page: 3

Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,2,3-Trichloropropane	96-18-4	0.2	0.061	ppbV	70-130			25	25			
Acetonitrile	75-05-8	0.2	0.082	ppbV	70-130			25	25			
Bromobenzene	108-86-1	0.2	0.0613	ppbV	70-130			25	25			
Chlorodifluoromethane	75-45-6	0.2	0.0584	ppbV	70-130			25	25			
Dichlorofluoromethane	75-43-4	0.2	0.0807	ppbV	70-130			25	25			
Dibromomethane	74-95-3	0.2	0.0563	ppbV	70-130			25	25			
Pentane	109-66-0	0.2	0.0659	ppbV	70-130			25	25			
Octane	111-65-9	0.2	0.0445	ppbV	70-130			25	25			
Tertiary-Amyl Methyl Ether	994-05-8	0.2	0.0476	ppbV	70-130			25	25			
o-Chlorotoluene	95-49-8	0.2	0.0486	ppbV	70-130			25	25			
p-Chlorotoluene	106-43-4	0.2	0.056	ppbV	70-130			25	25			
2,2-Dichloropropane	594-20-7	0.2	0.0458	ppbV	70-130			25	25			
1,1-Dichloropropene	563-58-6	0.2	0.0457	ppbV	70-130			25	25			
Isopropyl Ether	108-20-3	0.2	0.0621	ppbV	70-130			25	25			
Ethyl- Tert-Butyl-Ether	637-92-3	0.2	0.0422	ppbV	70-130			25	25			
1,2,3-Trichlorobenzene	87-61-6	0.2	0.0715	ppbV	70-130			25	25			
Ethyl ether	60-29-7	0.2	0.0737	ppbV	70-130			25	25			
n-Butylbenzene	104-51-8	0.2	0.044	ppbV	70-130			25	25			
sec-Butylbenzene	135-98-8	0.2	0.0429	ppbV	70-130			25	25			
tert-Butylbenzene	98-06-6	0.2	0.042	ppbV	70-130			25	25			
1,2-Dibromo-3-chloropropane	96-12-8	0.2	0.0495	ppbV	70-130			25	25			
p-Isopropyltoluene	99-87-6	0.2	0.052	ppbV	70-130			25	25			
n-Propylbenzene	103-65-1	0.2	0.0419	ppbV	70-130			25	25			
1,3-Dichloropropane	142-28-9	0.2	0.106	ppbV	70-130			25	25			
Methanol	67-56-1	5	1.84	ppbV	70-130			25	25			
Acetaldehyde	75-07-0	2.5	0.444	ppbV	70-130			25	25			
Butane	106-97-8	0.2	0.0646	ppbV	70-130			25	25			
Nonane (C9)	111-84-2	0.2	0.0463	ppbV	70-130			25	25			
Decane (C10)	124-18-5	0.2	0.0404	ppbV	70-130			25	25			
Undecane	1120-21-4	0.2	0.0427	ppbV	70-130			25	25			
Indane	496-11-7	0.2	0.0507	ppbV	70-130			25	25			
Indene	95-13-6	0.2	0.0433	ppbV	70-130			25	25			
1-Methylnaphthalene	90-12-0	1	0.466	ppbV	70-130			25	25			
Dodecane (C12)	112-40-3	0.2	0.0658	ppbV	70-130			25	25			
Butyl Acetate	123-86-4	0.5	0.126	ppbV	70-130			25	25			
tert-Butyl Alcohol	75-65-0	0.5	0.0466	ppbV	70-130			25	25			
2-Methylnaphthalene	91-57-6	1	0.393	ppbV	70-130			25	25			
1,2-Dichloroethane-d4	17060-07-0										70-130	
Toluene-d8	2037-26-5										70-130	
Bromofluorobenzene	460-00-4										70-130	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Sol/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.



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Volatiles Sample Data

Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-01
 Client ID : 046/LSV-3
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619126
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 11:46
 Date Received : 09/10/20
 Date Analyzed : 09/16/20 20:50
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	1.05	0.200	--	5.19	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	3.99	0.200	--	22.4	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	2.28	0.200	--	7.10	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	14.2	0.500	--	41.9	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	0.623	0.200	--	3.04	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-01
 Client ID : 046/LSV-3
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619126
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 11:46
 Date Received : 09/10/20
 Date Analyzed : 09/16/20 20:50
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.505	0.200	--	1.78	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	0.256	0.200	--	0.818	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	0.396	0.200	--	1.36	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
1330-20-7	Xylenes, Total	7.09	0.200	--	30.8	0.869	--	
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	1.36	0.200	--	6.35	0.934	--	
142-82-5	Heptane	0.682	0.200	--	2.79	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	4.00	0.200	--	15.1	0.754	--	
591-78-6	2-Hexanone	8.88	0.200	--	36.4	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	6.56	0.200	--	44.5	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	1.10	0.200	--	4.78	0.869	--	
179601-23-1	p/m-Xylene	4.32	0.400	--	18.8	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-01
 Client ID : 046/LSV-3
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619126
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 11:46
 Date Received : 09/10/20
 Date Analyzed : 09/16/20 20:50
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	2.77	0.200	--	12.0	0.869	--	
622-96-8	4-Ethyltoluene	0.567	0.200	--	2.79	0.983	--	
108-67-8	1,3,5-Trimethylbenzene	1.23	0.200	--	6.05	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	4.14	0.200	--	20.4	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-02
 Client ID : 047/LSV-2
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619127
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 12:02
 Date Received : 09/10/20
 Date Analyzed : 09/16/20 21:30
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	1.16	0.200	--	5.74	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	4.33	1.00	--	10.3	2.38	--	
75-69-4	Trichlorofluoromethane	1.04	0.200	--	5.84	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	1.24	0.200	--	3.86	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	20.5	0.500	--	60.5	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	2.82	0.200	--	13.8	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-02
 Client ID : 047/LSV-2
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619127
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 12:02
 Date Received : 09/10/20
 Date Analyzed : 09/16/20 21:30
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.684	0.200	--	2.41	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	0.222	0.200	--	0.709	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	0.489	0.200	--	1.68	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
1330-20-7	Xylenes, Total	7.34	0.200	--	31.9	0.869	--	
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	0.239	0.200	--	1.28	1.07	--	
540-84-1	2,2,4-Trimethylpentane	1.66	0.200	--	7.75	0.934	--	
142-82-5	Heptane	0.782	0.200	--	3.20	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	4.85	0.200	--	18.3	0.754	--	
591-78-6	2-Hexanone	11.3	0.200	--	46.3	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	8.59	0.200	--	58.3	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	1.14	0.200	--	4.95	0.869	--	
179601-23-1	p/m-Xylene	4.47	0.400	--	19.4	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-02
 Client ID : 047/LSV-2
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619127
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 12:02
 Date Received : 09/10/20
 Date Analyzed : 09/16/20 21:30
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	2.86	0.200	--	12.4	0.869	--	
622-96-8	4-Ethyltoluene	0.567	0.200	--	2.79	0.983	--	
108-67-8	1,3,5-Trimethylbenzene	1.19	0.200	--	5.85	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	3.96	0.200	--	19.5	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-03
 Client ID : 048/LSV-5
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619128
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 12:10
 Date Received : 09/10/20
 Date Analyzed : 09/16/20 22:10
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	1.16	0.200	--	5.74	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	0.341	0.200	--	0.754	0.442	--	
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.30	1.00	--	5.46	2.38	--	
75-69-4	Trichlorofluoromethane	1.91	0.200	--	10.7	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	2.18	0.200	--	6.79	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	13.0	0.500	--	38.3	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	1.68	0.200	--	8.20	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-03
 Client ID : 048/LSV-5
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619128
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 12:10
 Date Received : 09/10/20
 Date Analyzed : 09/16/20 22:10
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	1.16	0.200	--	4.09	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	0.381	0.200	--	1.22	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	0.462	0.200	--	1.59	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
1330-20-7	Xylenes, Total	6.56	0.200	--	28.5	0.869	--	
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	0.239	0.200	--	1.28	1.07	--	
540-84-1	2,2,4-Trimethylpentane	1.39	0.200	--	6.49	0.934	--	
142-82-5	Heptane	0.943	0.200	--	3.86	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	4.04	0.200	--	15.2	0.754	--	
591-78-6	2-Hexanone	7.13	0.200	--	29.2	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	7.83	0.200	--	53.1	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	1.07	0.200	--	4.65	0.869	--	
179601-23-1	p/m-Xylene	3.99	0.400	--	17.3	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-03
 Client ID : 048/LSV-5
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619128
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 12:10
 Date Received : 09/10/20
 Date Analyzed : 09/16/20 22:10
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
100-42-5	Styrene	0.330	0.200	--	1.41	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	2.58	0.200	--	11.2	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	1.19	0.200	--	5.85	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	3.93	0.200	--	19.3	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-04
 Client ID : 049/LSV-6
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619129
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 12:42
 Date Received : 09/10/20
 Date Analyzed : 09/16/20 22:50
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.759	0.200	--	3.75	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	0.207	0.200	--	0.458	0.442	--	
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	4.10	1.00	--	9.74	2.38	--	
75-69-4	Trichlorofluoromethane	1.60	0.200	--	8.99	1.12	--	
67-63-0	Isopropanol	1.04	0.500	--	2.56	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	16.5	0.200	--	51.4	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	4.54	0.500	--	13.4	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	16.8	0.200	--	82.0	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-04
 Client ID : 049/LSV-6
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619129
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 12:42
 Date Received : 09/10/20
 Date Analyzed : 09/16/20 22:50
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.918	0.200	--	3.24	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	0.734	0.200	--	2.34	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	1.52	0.200	--	5.23	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
1330-20-7	Xylenes, Total	6.69	0.200	--	29.1	0.869	--	
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	0.298	0.200	--	1.60	1.07	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	1.46	0.200	--	5.98	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	2.52	0.200	--	9.50	0.754	--	
591-78-6	2-Hexanone	2.25	0.200	--	9.22	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	7.97	0.200	--	54.0	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	1.43	0.200	--	6.21	0.869	--	
179601-23-1	p/m-Xylene	3.50	0.400	--	15.2	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-04
 Client ID : 049/LSV-6
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619129
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 12:42
 Date Received : 09/10/20
 Date Analyzed : 09/16/20 22:50
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	3.19	0.200	--	13.9	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	2.19	0.200	--	10.8	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	2.98	0.200	--	14.7	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-05
 Client ID : 050/DUP-1
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619130
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 12:42
 Date Received : 09/10/20
 Date Analyzed : 09/16/20 23:29
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.750	0.200	--	3.71	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	5.27	1.00	--	12.5	2.38	--	
75-69-4	Trichlorofluoromethane	1.36	0.200	--	7.64	1.12	--	
67-63-0	Isopropanol	0.994	0.500	--	2.44	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	13.7	0.200	--	42.7	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	3.87	0.500	--	11.4	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	17.5	0.200	--	85.5	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-05
 Client ID : 050/DUP-1
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619130
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 12:42
 Date Received : 09/10/20
 Date Analyzed : 09/16/20 23:29
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.867	0.200	--	3.06	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	0.706	0.200	--	2.26	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	1.34	0.200	--	4.61	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
1330-20-7	Xylenes, Total	6.06	0.200	--	26.3	0.869	--	
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	0.261	0.200	--	1.40	1.07	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	1.20	0.200	--	4.92	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	2.34	0.200	--	8.82	0.754	--	
591-78-6	2-Hexanone	1.88	0.200	--	7.70	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	7.07	0.200	--	47.9	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	1.30	0.200	--	5.65	0.869	--	
179601-23-1	p/m-Xylene	3.18	0.400	--	13.8	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-05
 Client ID : 050/DUP-1
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619130
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 12:42
 Date Received : 09/10/20
 Date Analyzed : 09/16/20 23:29
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	2.88	0.200	--	12.5	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	2.04	0.200	--	10.0	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	2.84	0.200	--	14.0	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-06
 Client ID : 051/LSV-9
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619131
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 13:23
 Date Received : 09/10/20
 Date Analyzed : 09/17/20 00:09
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.717	0.200	--	3.55	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	1.23	0.200	--	6.91	1.12	--	
67-63-0	Isopropanol	0.550	0.500	--	1.35	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	2.14	0.200	--	6.66	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.33	0.500	--	3.92	1.47	--	
156-59-2	cis-1,2-Dichloroethene	0.536	0.200	--	2.13	0.793	--	
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	5.46	0.200	--	26.7	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-06
 Client ID : 051/LSV-9
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619131
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 13:23
 Date Received : 09/10/20
 Date Analyzed : 09/17/20 00:09
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.495	0.200	--	1.74	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	0.539	0.200	--	1.72	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
1330-20-7	Xylenes, Total	13.4	0.200	--	58.2	0.869	--	
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	5.31	0.200	--	28.5	1.07	--	
540-84-1	2,2,4-Trimethylpentane	0.862	0.200	--	4.03	0.934	--	
142-82-5	Heptane	0.586	0.200	--	2.40	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	1.36	0.200	--	5.13	0.754	--	
591-78-6	2-Hexanone	0.363	0.200	--	1.49	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	27.9	0.200	--	189	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	2.18	0.200	--	9.47	0.869	--	
179601-23-1	p/m-Xylene	9.29	0.400	--	40.4	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-06
 Client ID : 051/LSV-9
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619131
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 13:23
 Date Received : 09/10/20
 Date Analyzed : 09/17/20 00:09
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	4.13	0.200	--	17.9	0.869	--	
622-96-8	4-Ethyltoluene	0.283	0.200	--	1.39	0.983	--	
108-67-8	1,3,5-Trimethylbenzene	0.557	0.200	--	2.74	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	2.18	0.200	--	10.7	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-07D
 Client ID : 052/LSV-11
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619132
 Sample Amount : 75.0 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 13:22
 Date Received : 09/10/20
 Date Analyzed : 09/17/20 00:47
 Dilution Factor : 3.333
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	3.64	0.667	--	18.0	3.30	--	
74-87-3	Chloromethane	ND	0.667	--	ND	1.38	--	U
76-14-2	Freon-114	ND	0.667	--	ND	4.66	--	U
75-01-4	Vinyl chloride	ND	0.667	--	ND	1.71	--	U
106-99-0	1,3-Butadiene	1.11	0.667	--	2.46	1.48	--	
74-83-9	Bromomethane	ND	0.667	--	ND	2.59	--	U
75-00-3	Chloroethane	ND	0.667	--	ND	1.76	--	U
64-17-5	Ethanol	43.6	16.7	--	82.2	31.5	--	
593-60-2	Vinyl bromide	ND	0.667	--	ND	2.92	--	U
67-64-1	Acetone	414	3.33	--	983	7.91	--	
75-69-4	Trichlorofluoromethane	1.87	0.667	--	10.5	3.75	--	
67-63-0	Isopropanol	5.07	1.67	--	12.5	4.10	--	
75-35-4	1,1-Dichloroethene	ND	0.667	--	ND	2.64	--	U
75-65-0	Tertiary butyl Alcohol	ND	1.67	--	ND	5.06	--	U
75-09-2	Methylene chloride	ND	1.67	--	ND	5.80	--	U
107-05-1	3-Chloropropene	ND	0.667	--	ND	2.09	--	U
75-15-0	Carbon disulfide	123	0.667	--	383	2.08	--	
76-13-1	Freon-113	ND	0.667	--	ND	5.11	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.667	--	ND	2.64	--	U
75-34-3	1,1-Dichloroethane	ND	0.667	--	ND	2.70	--	U
1634-04-4	Methyl tert butyl ether	ND	0.667	--	ND	2.40	--	U
78-93-3	2-Butanone	83.7	1.67	--	247	4.93	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.667	--	ND	2.64	--	U
141-78-6	Ethyl Acetate	ND	1.67	--	ND	6.02	--	U
67-66-3	Chloroform	1.75	0.667	--	8.55	3.26	--	
109-99-9	Tetrahydrofuran	ND	1.67	--	ND	4.93	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-07D
 Client ID : 052/LSV-11
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619132
 Sample Amount : 75.0 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 13:22
 Date Received : 09/10/20
 Date Analyzed : 09/17/20 00:47
 Dilution Factor : 3.333
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.667	--	ND	2.70	--	U
110-54-3	n-Hexane	160	0.667	--	564	2.35	--	
71-55-6	1,1,1-Trichloroethane	ND	0.667	--	ND	3.64	--	U
71-43-2	Benzene	19.7	0.667	--	62.9	2.13	--	
56-23-5	Carbon tetrachloride	ND	0.667	--	ND	4.20	--	U
110-82-7	Cyclohexane	1.57	0.667	--	5.40	2.30	--	
78-87-5	1,2-Dichloropropane	ND	0.667	--	ND	3.08	--	U
75-27-4	Bromodichloromethane	ND	0.667	--	ND	4.47	--	U
1330-20-7	Xylenes, Total	15.9	0.667	--	69.1	2.90	--	
123-91-1	1,4-Dioxane	ND	0.667	--	ND	2.40	--	U
79-01-6	Trichloroethene	ND	0.667	--	ND	3.58	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.667	--	ND	3.12	--	U
142-82-5	Heptane	64.8	0.667	--	266	2.73	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--	U
108-10-1	4-Methyl-2-pentanone	3.53	1.67	--	14.5	6.84	--	
10061-02-6	trans-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.667	--	ND	3.64	--	U
108-88-3	Toluene	15.5	0.667	--	58.4	2.51	--	
591-78-6	2-Hexanone	ND	0.667	--	ND	2.73	--	U
124-48-1	Dibromochloromethane	ND	0.667	--	ND	5.68	--	U
106-93-4	1,2-Dibromoethane	ND	0.667	--	ND	5.13	--	U
127-18-4	Tetrachloroethene	14.0	0.667	--	94.9	4.52	--	
108-90-7	Chlorobenzene	ND	0.667	--	ND	3.07	--	U
100-41-4	Ethylbenzene	3.22	0.667	--	14.0	2.90	--	
179601-23-1	p/m-Xylene	11.2	1.33	--	48.6	5.78	--	
75-25-2	Bromoform	ND	0.667	--	ND	6.90	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-07D
 Client ID : 052/LSV-11
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619132
 Sample Amount : 75.0 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 13:22
 Date Received : 09/10/20
 Date Analyzed : 09/17/20 00:47
 Dilution Factor : 3.333
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
100-42-5	Styrene	ND	0.667	--	ND	2.84	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.667	--	ND	4.58	--	U
95-47-6	o-Xylene	4.76	0.667	--	20.7	2.90	--	
622-96-8	4-Ethyltoluene	ND	0.667	--	ND	3.28	--	U
108-67-8	1,3,5-Trimethylbenzene	0.713	0.667	--	3.51	3.28	--	
95-63-6	1,2,4-Trimethylbenzene	2.70	0.667	--	13.3	3.28	--	
100-44-7	Benzyl chloride	ND	0.667	--	ND	3.45	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.667	--	ND	4.01	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.667	--	ND	4.01	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.667	--	ND	4.01	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.667	--	ND	4.95	--	U
87-68-3	Hexachlorobutadiene	ND	0.667	--	ND	7.11	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-08
 Client ID : 053/LSV-10
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619133
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 13:48
 Date Received : 09/10/20
 Date Analyzed : 09/17/20 01:27
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.766	0.200	--	3.79	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	0.325	0.200	--	0.719	0.442	--	
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	9.30	1.00	--	22.1	2.38	--	
75-69-4	Trichlorofluoromethane	3.01	0.200	--	16.9	1.12	--	
67-63-0	Isopropanol	2.24	0.500	--	5.51	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	2.26	0.200	--	7.04	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	5.62	0.500	--	16.6	1.47	--	
156-59-2	cis-1,2-Dichloroethene	0.399	0.200	--	1.58	0.793	--	
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	9.97	0.200	--	48.7	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-08
 Client ID : 053/LSV-10
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619133
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 13:48
 Date Received : 09/10/20
 Date Analyzed : 09/17/20 01:27
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.323	0.200	--	1.14	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	0.330	0.200	--	1.05	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
1330-20-7	Xylenes, Total	12.5	0.200	--	54.3	0.869	--	
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	3.24	0.200	--	17.4	1.07	--	
540-84-1	2,2,4-Trimethylpentane	0.694	0.200	--	3.24	0.934	--	
142-82-5	Heptane	0.354	0.200	--	1.45	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	1.18	0.200	--	4.45	0.754	--	
591-78-6	2-Hexanone	0.321	0.200	--	1.32	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	37.4	0.200	--	254	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	1.96	0.200	--	8.51	0.869	--	
179601-23-1	p/m-Xylene	8.72	0.400	--	37.9	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-08
 Client ID : 053/LSV-10
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619133
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 13:48
 Date Received : 09/10/20
 Date Analyzed : 09/17/20 01:27
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	3.80	0.200	--	16.5	0.869	--	
622-96-8	4-Ethyltoluene	0.258	0.200	--	1.27	0.983	--	
108-67-8	1,3,5-Trimethylbenzene	0.553	0.200	--	2.72	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	2.21	0.200	--	10.9	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-09D
 Client ID : 054/LSV-4
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619134
 Sample Amount : 75.0 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 15:23
 Date Received : 09/10/20
 Date Analyzed : 09/17/20 02:05
 Dilution Factor : 3.333
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.836	0.667	--	4.13	3.30	--	
74-87-3	Chloromethane	ND	0.667	--	ND	1.38	--	U
76-14-2	Freon-114	ND	0.667	--	ND	4.66	--	U
75-01-4	Vinyl chloride	ND	0.667	--	ND	1.71	--	U
106-99-0	1,3-Butadiene	4.31	0.667	--	9.53	1.48	--	
74-83-9	Bromomethane	ND	0.667	--	ND	2.59	--	U
75-00-3	Chloroethane	ND	0.667	--	ND	1.76	--	U
64-17-5	Ethanol	ND	16.7	--	ND	31.5	--	U
593-60-2	Vinyl bromide	ND	0.667	--	ND	2.92	--	U
67-64-1	Acetone	ND	3.33	--	ND	7.91	--	U
75-69-4	Trichlorofluoromethane	0.793	0.667	--	4.46	3.75	--	
67-63-0	Isopropanol	ND	1.67	--	ND	4.10	--	U
75-35-4	1,1-Dichloroethene	ND	0.667	--	ND	2.64	--	U
75-65-0	Tertiary butyl Alcohol	ND	1.67	--	ND	5.06	--	U
75-09-2	Methylene chloride	ND	1.67	--	ND	5.80	--	U
107-05-1	3-Chloropropene	ND	0.667	--	ND	2.09	--	U
75-15-0	Carbon disulfide	4.34	0.667	--	13.5	2.08	--	
76-13-1	Freon-113	ND	0.667	--	ND	5.11	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.667	--	ND	2.64	--	U
75-34-3	1,1-Dichloroethane	ND	0.667	--	ND	2.70	--	U
1634-04-4	Methyl tert butyl ether	ND	0.667	--	ND	2.40	--	U
78-93-3	2-Butanone	2.51	1.67	--	7.40	4.93	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.667	--	ND	2.64	--	U
141-78-6	Ethyl Acetate	ND	1.67	--	ND	6.02	--	U
67-66-3	Chloroform	ND	0.667	--	ND	3.26	--	U
109-99-9	Tetrahydrofuran	ND	1.67	--	ND	4.93	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-09D
 Client ID : 054/LSV-4
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619134
 Sample Amount : 75.0 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 15:23
 Date Received : 09/10/20
 Date Analyzed : 09/17/20 02:05
 Dilution Factor : 3.333
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.667	--	ND	2.70	--	U
110-54-3	n-Hexane	46.3	0.667	--	163	2.35	--	
71-55-6	1,1,1-Trichloroethane	ND	0.667	--	ND	3.64	--	U
71-43-2	Benzene	3.92	0.667	--	12.5	2.13	--	
56-23-5	Carbon tetrachloride	ND	0.667	--	ND	4.20	--	U
110-82-7	Cyclohexane	ND	0.667	--	ND	2.30	--	U
78-87-5	1,2-Dichloropropane	ND	0.667	--	ND	3.08	--	U
75-27-4	Bromodichloromethane	ND	0.667	--	ND	4.47	--	U
1330-20-7	Xylenes, Total	10.7	0.667	--	46.5	2.90	--	
123-91-1	1,4-Dioxane	ND	0.667	--	ND	2.40	--	U
79-01-6	Trichloroethene	ND	0.667	--	ND	3.58	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.667	--	ND	3.12	--	U
142-82-5	Heptane	27.0	0.667	--	111	2.73	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--	U
108-10-1	4-Methyl-2-pentanone	ND	1.67	--	ND	6.84	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.667	--	ND	3.64	--	U
108-88-3	Toluene	2.80	0.667	--	10.6	2.51	--	
591-78-6	2-Hexanone	ND	0.667	--	ND	2.73	--	U
124-48-1	Dibromochloromethane	ND	0.667	--	ND	5.68	--	U
106-93-4	1,2-Dibromoethane	ND	0.667	--	ND	5.13	--	U
127-18-4	Tetrachloroethene	3.49	0.667	--	23.7	4.52	--	
108-90-7	Chlorobenzene	ND	0.667	--	ND	3.07	--	U
100-41-4	Ethylbenzene	1.86	0.667	--	8.08	2.90	--	
179601-23-1	p/m-Xylene	7.03	1.33	--	30.5	5.78	--	
75-25-2	Bromoform	ND	0.667	--	ND	6.90	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-09D
 Client ID : 054/LSV-4
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619134
 Sample Amount : 75.0 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 15:23
 Date Received : 09/10/20
 Date Analyzed : 09/17/20 02:05
 Dilution Factor : 3.333
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
100-42-5	Styrene	ND	0.667	--	ND	2.84	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.667	--	ND	4.58	--	U
95-47-6	o-Xylene	3.64	0.667	--	15.8	2.90	--	
622-96-8	4-Ethyltoluene	ND	0.667	--	ND	3.28	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.667	--	ND	3.28	--	U
95-63-6	1,2,4-Trimethylbenzene	2.18	0.667	--	10.7	3.28	--	
100-44-7	Benzyl chloride	ND	0.667	--	ND	3.45	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.667	--	ND	4.01	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.667	--	ND	4.01	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.667	--	ND	4.01	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.667	--	ND	4.95	--	U
87-68-3	Hexachlorobutadiene	ND	0.667	--	ND	7.11	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-10
 Client ID : 055/LSV-8
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619135
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 15:51
 Date Received : 09/10/20
 Date Analyzed : 09/17/20 02:45
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.445	0.200	--	2.20	0.989	--	
74-87-3	Chloromethane	0.586	0.200	--	1.21	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	13.2	5.00	--	24.9	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	4.15	1.00	--	9.86	2.38	--	
75-69-4	Trichlorofluoromethane	0.200	0.200	--	1.12	1.12	--	
67-63-0	Isopropanol	1.71	0.500	--	4.20	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	9.31	0.500	--	27.5	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-10
 Client ID : 055/LSV-8
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619135
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 15:51
 Date Received : 09/10/20
 Date Analyzed : 09/17/20 02:45
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.851	0.200	--	3.00	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	0.254	0.200	--	0.811	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
1330-20-7	Xylenes, Total	2.71	0.200	--	11.8	0.869	--	
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	0.656	0.200	--	3.06	0.934	--	
142-82-5	Heptane	0.306	0.200	--	1.25	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.746	0.200	--	2.81	0.754	--	
591-78-6	2-Hexanone	1.05	0.200	--	4.30	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.422	0.200	--	1.83	0.869	--	
179601-23-1	p/m-Xylene	1.86	0.400	--	8.08	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : L2037647-10
 Client ID : 055/LSV-8
 Sample Location : NEW YORK, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1619135
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : 09/10/20 15:51
 Date Received : 09/10/20
 Date Analyzed : 09/17/20 02:45
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
100-42-5	Styrene	0.560	0.200	--	2.38	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.847	0.200	--	3.68	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	0.204	0.200	--	1.00	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	0.878	0.200	--	4.32	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : WG1410723-4
 Client ID : WG1410723-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1619118
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 09/16/20 14:48
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
1330-20-7	Xylenes, Total	ND	0.200	--	ND	0.869	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : WG1410723-4
 Client ID : WG1410723-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1619118
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 09/16/20 14:48
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Lab ID : WG1410723-4
 Client ID : WG1410723-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1619118
 Sample Amount : 250 ml

Lab Number : L2037647
 Project Number : 100433203
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 09/16/20 14:48
 Dilution Factor : 1
 Analyst : TS
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619126.D
 Acq On : 16 Sep 2020 8:50 PM
 Operator : AIRLAB16:TS
 Sample : L2037647-01,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 07:59:17 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.408	49	258916	10.000	ppbV	0.02
Standard Area = 289019			Recovery =		89.58%	
43) 1,4-difluorobenzene	11.673	114	840530	10.000	ppbV	0.00
Standard Area = 862875			Recovery =		97.41%	
67) chlorobenzene-D5	16.408	54	120293	10.000	ppbV	0.00
Standard Area = 122360			Recovery =		98.31%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.874	85	25715	1.048	ppbV	99
6) chloromethane	0.000		0	N.D.	d	
7) Freon-114	0.000		0	N.D.	d	
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.462		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.182	31	21281	2.292	ppbV	94
17) vinyl bromide	0.000		0	N.D.		
19) acetone	0.000		0	N.D.	d	
21) trichlorofluoromethane	5.930	101	79403	3.989	ppbV	94
22) isopropyl alcohol	6.097	45	11946	0.420	ppbV	100
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	6.832	59	5073	0.245	ppbV #	80
28) methylene chloride	6.862		0	N.D.		
29) 3-chloropropene	6.916		0	N.D.		
30) carbon disulfide	7.144	76	107807	2.276	ppbV #	23
31) Freon 113	7.192	101	2284	0.083	ppbV	96
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	8.717	43	504255	14.240	ppbV	99
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.575	83	15587	0.623	ppbV	98
40) Tetrahydrofuran	10.058	42	2546	0.102	ppbV	95
42) 1,2-dichloroethane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619126.D
 Acq On : 16 Sep 2020 8:50 PM
 Operator : AIRLAB16:TS
 Sample : L2037647-01,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 07:59:17 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
44) hexane	9.475	57	14473	0.505	ppbV	#	56
48) 1,1,1-trichloroethane	10.708		0	N.D.			
50) benzene	11.233	78	15860	0.256	ppbV		100
52) carbon tetrachloride	0.000		0	N.D.			
53) cyclohexane	11.547	56	12267	0.396	ppbV		94
56) 1,2-dichloropropane	12.060		0	N.D.			
57) bromodichloromethane	0.000		0	N.D.	d		
58) 1,4-dioxane	12.507		0	N.D.			
59) trichloroethene	12.467	130	4158	0.156	ppbV		99
60) 2,2,4-trimethylpentane	12.520	57	133674M6	1.364	ppbV		
62) heptane	12.840	43	33267M6	0.682	ppbV		
63) cis-1,3-dichloropropene	0.000		0	N.D.			
64) 4-methyl-2-pentanone	0.000		0	N.D.	d		
65) trans-1,3-dichloropropene	0.000		0	N.D.			
66) 1,1,2-trichloroethane	14.350		0	N.D.			
68) toluene	14.633	91	297980	3.998	ppbV		98
72) 2-hexanone	14.933	43	467602	8.879	ppbV		99
74) dibromochloromethane	0.000		0	N.D.			
75) 1,2-dibromoethane	0.000		0	N.D.			
78) tetrachloroethene	15.800	166	211085	6.557	ppbV		99
80) chlorobenzene	0.000		0	N.D.	d		
81) ethylbenzene	16.800	91	104203	1.104	ppbV		97
83) m+p-xylene	16.950	91	328795	4.318	ppbV		98
84) bromoform	0.000		0	N.D.			
85) styrene	17.283	104	12625	0.197	ppbV		99
86) 1,1,2,2-tetrachloroethane	17.258		0	N.D.			
87) o-xylene	17.383	91	212172	2.770	ppbV		97
96) 4-ethyl toluene	18.458	105	64667M6	0.567	ppbV		
97) 1,3,5-trimethylbenzene	18.525	105	119419	1.232	ppbV		98
99) 1,2,4-trimethylbenzene	18.875	105	377548	4.142	ppbV	#	62
101) Benzyl Chloride	0.000		0	N.D.	d		
102) 1,3-dichlorobenzene	19.067		0	N.D.			
103) 1,4-dichlorobenzene	19.067		0	N.D.			
107) 1,2-dichlorobenzene	19.358		0	N.D.			
115) 1,2,4-trichlorobenzene	20.875		0	N.D.			
119) hexachlorobutadiene	0.000		0	N.D.			

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619126.D
 Acq On : 16 Sep 2020 8:50 PM
 Operator : AIRLAB16:TS
 Sample : L2037647-01,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 07:59:17 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

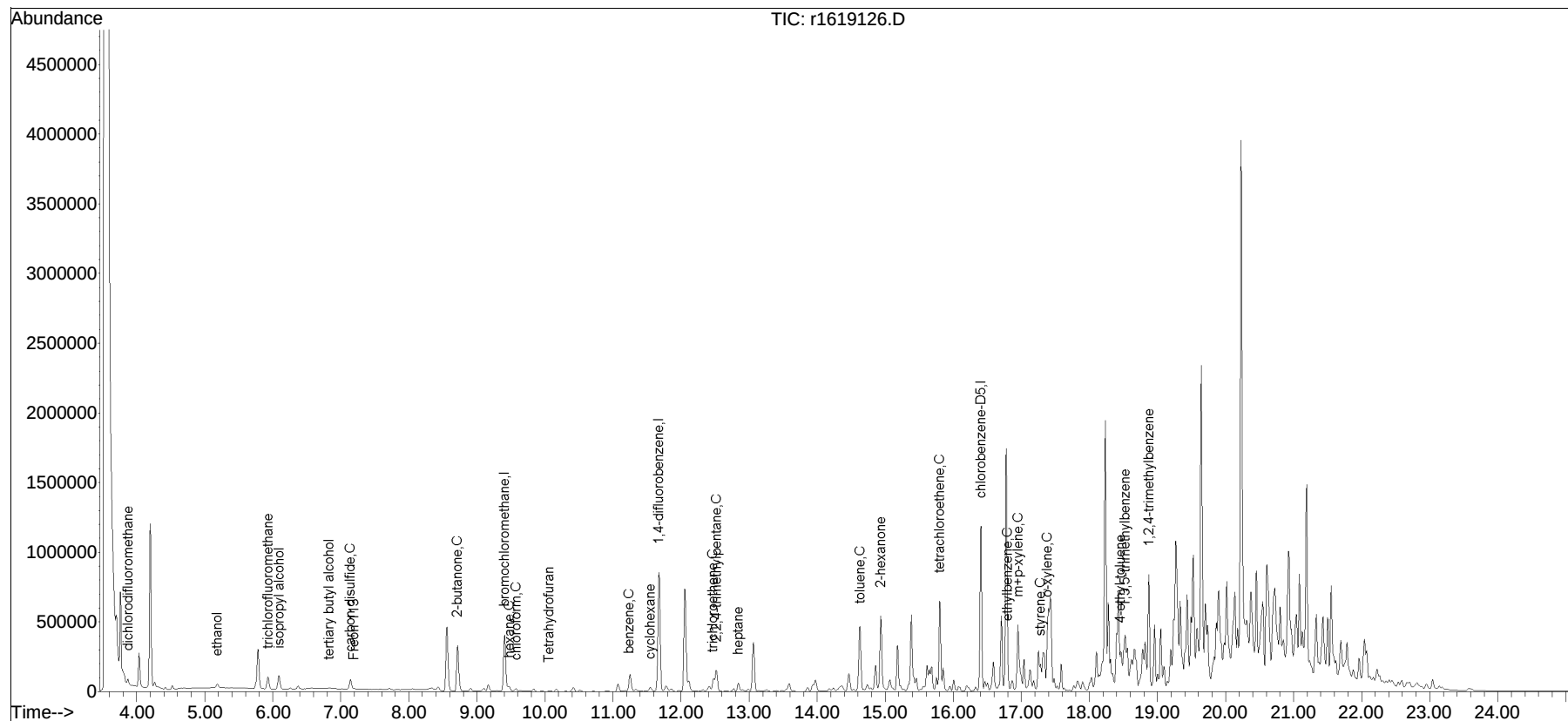
CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

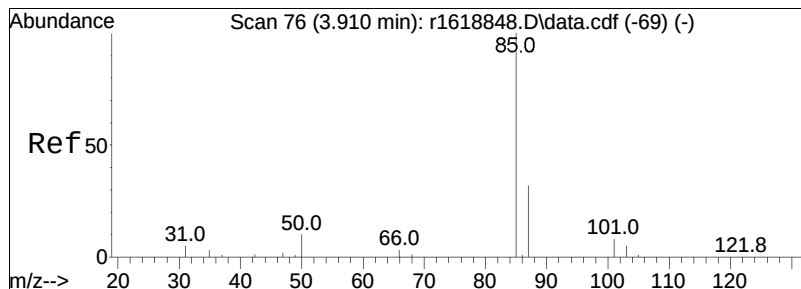
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : T015-NY - .s\Data\Airlab16\2020\09\200916T\r1619115.D

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
Data File : r1619126.D
Acq On : 16 Sep 2020 8:50 PM
Operator : AIRLAB16:TS
Sample : L2037647-01,3,250,250
Misc : WG1410723,ICAL17102
ALS Vial : 0 Sample Multiplier: 1

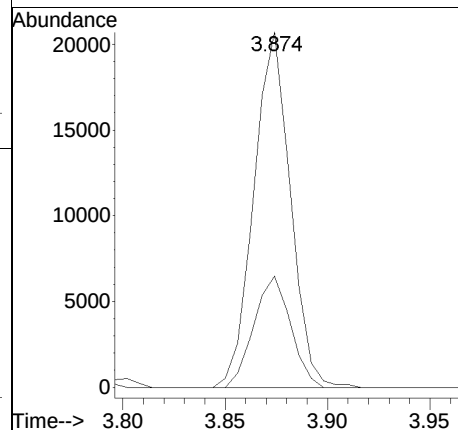
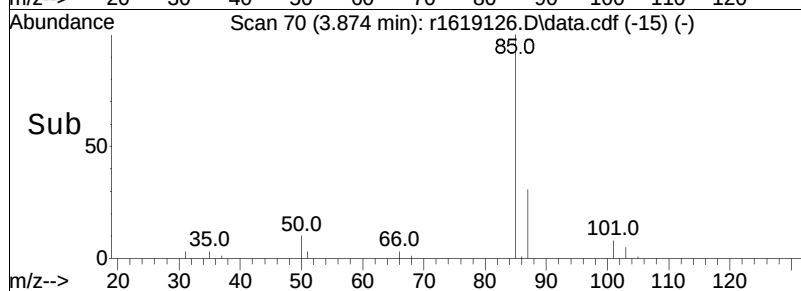
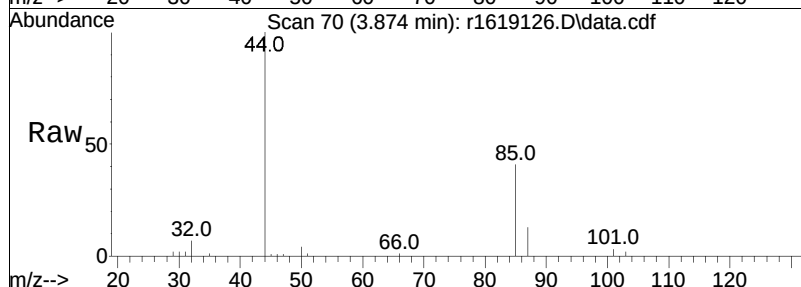
Quant Time: Sep 17 07:59:17 2020
Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Sep 16 13:18:40 2020
Response via : Initial Calibration

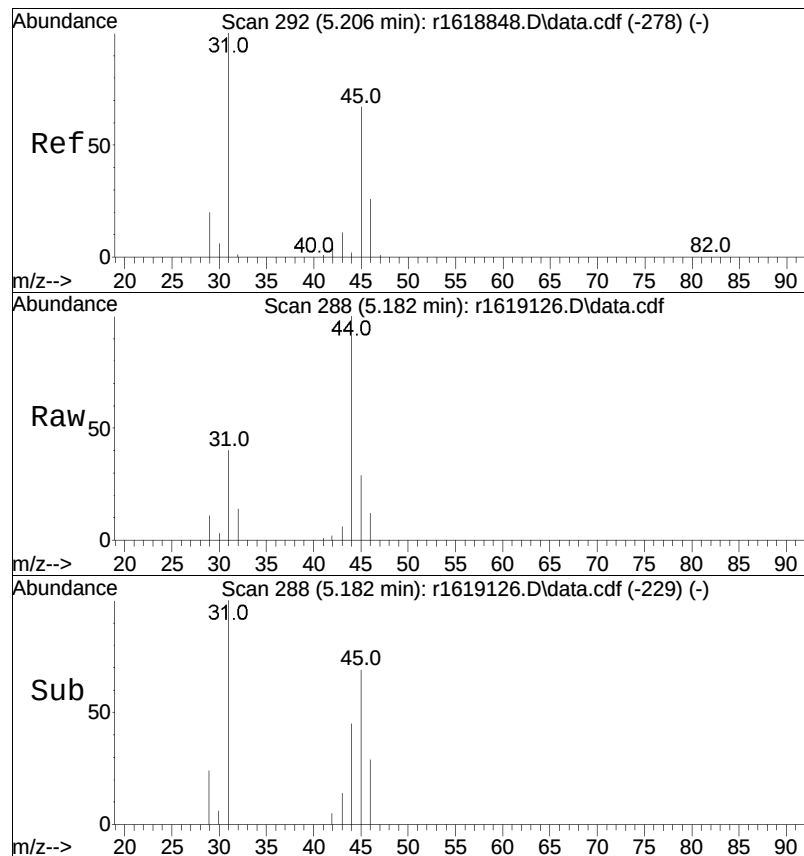




#5
dichlorodifluoromethane
Concen: 1.05 ppbV
RT: 3.874 min Scan# 70
Delta R.T. 0.000 min
Lab File: r1619126.D
Acq: 16 Sep 2020 8:50 PM

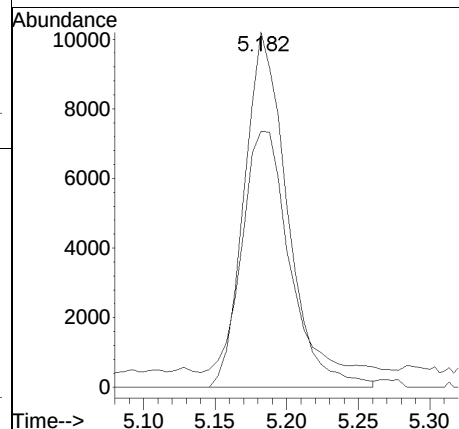
Tgt Ion: 85 Resp: 25715
Ion Ratio Lower Upper
85 100
87 31.3 25.4 38.2

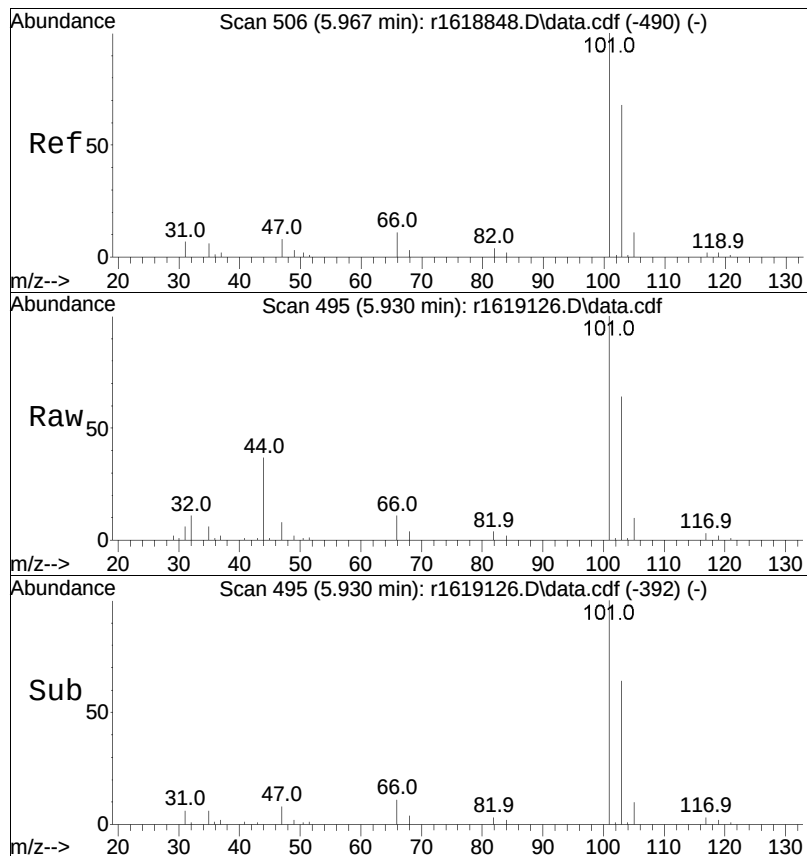




#15
ethanol
Concen: 2.29 ppbV
RT: 5.182 min Scan# 288
Delta R.T. 0.024 min
Lab File: r1619126.D
Acq: 16 Sep 2020 8:50 PM

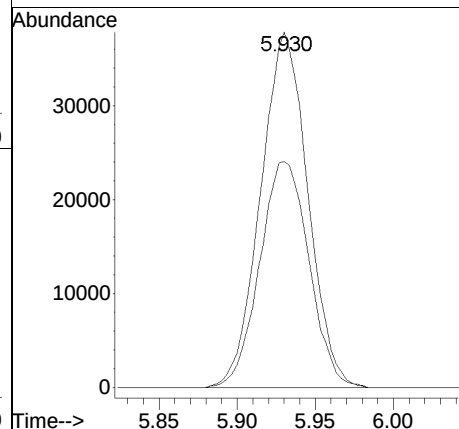
Tgt Ion:	31	45	Ratio	100	Resp:	21281
Ion	31	45	Ratio	100	Lower	Upper
					54.0	81.0

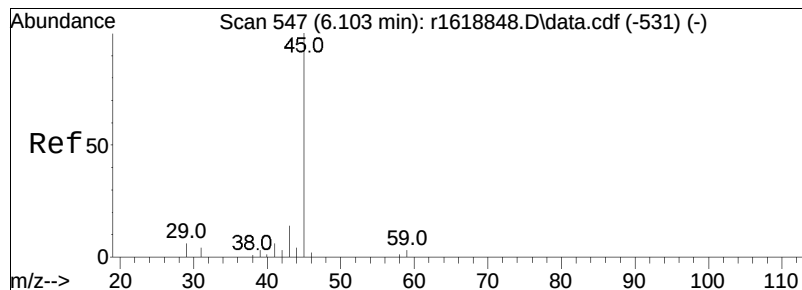




#21
trichlorofluoromethane
Concen: 3.99 ppbV
RT: 5.930 min Scan# 495
Delta R.T. 0.013 min
Lab File: r1619126.D
Acq: 16 Sep 2020 8:50 PM

Tgt	Ion	Ratio	Lower	Upper
101	100			
103	63.6	54.6	82.0	





#22

isopropyl alcohol

Concen: 0.42 ppbV

RT: 6.097 min Scan# 545

Delta R.T. 0.043 min

Lab File: r1619126.D

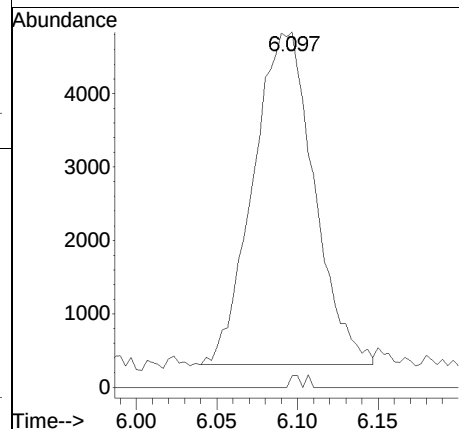
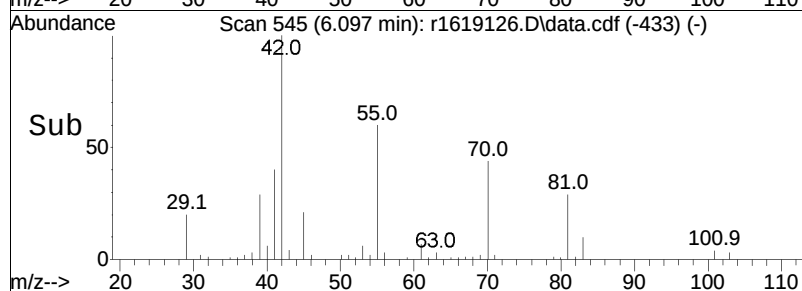
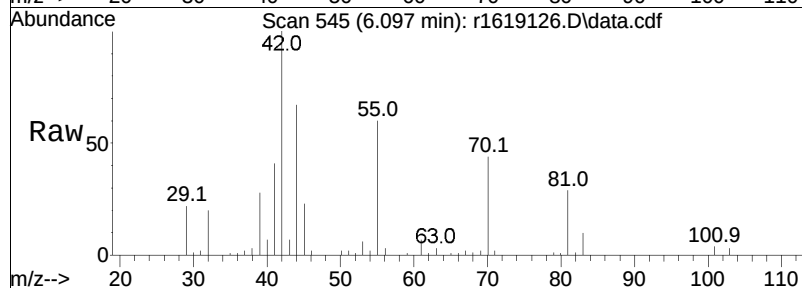
Acq: 16 Sep 2020 8:50 PM

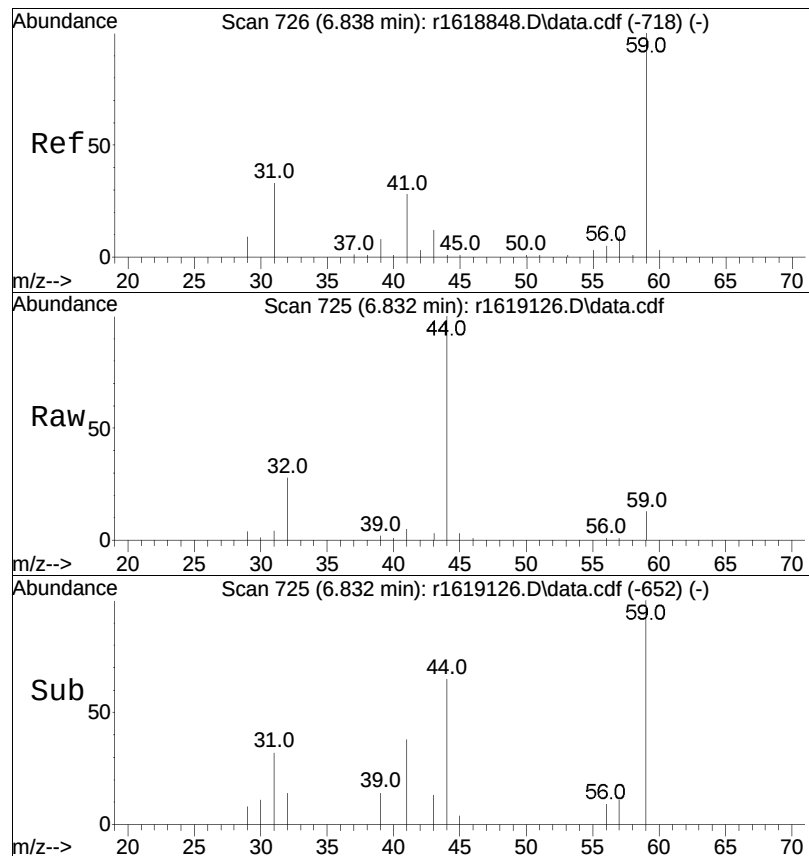
Tgt Ion: 45 Resp: 11946

Ion Ratio Lower Upper

45 100

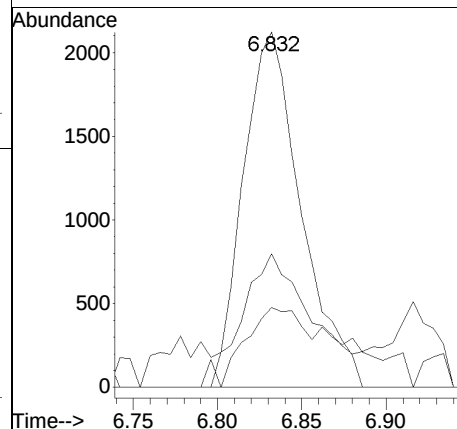
59 3.3 2.7 4.1

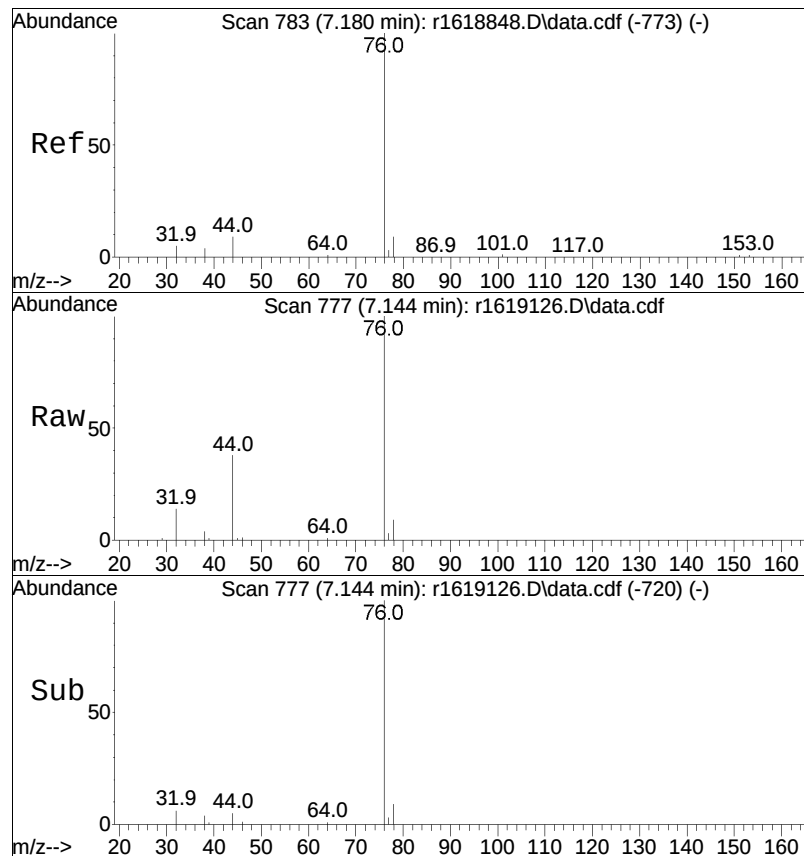




#27
 tertiary butyl alcohol
 Concen: 0.25 ppbV
 RT: 6.832 min Scan# 725
 Delta R.T. 0.048 min
 Lab File: r1619126.D
 Acq: 16 Sep 2020 8:50 PM

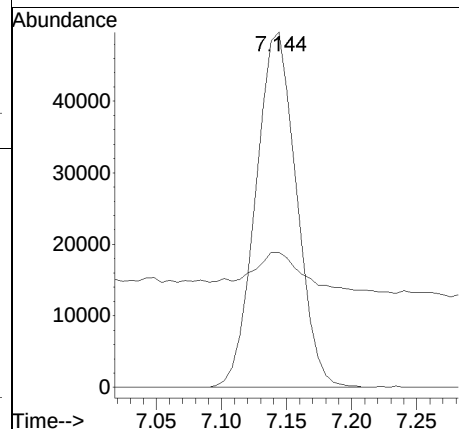
Tgt Ion:	59	Resp:	5073
Ion Ratio	Lower	Upper	
59	100		
41	37.6	22.4	33.6#
43	22.5	10.2	15.2#

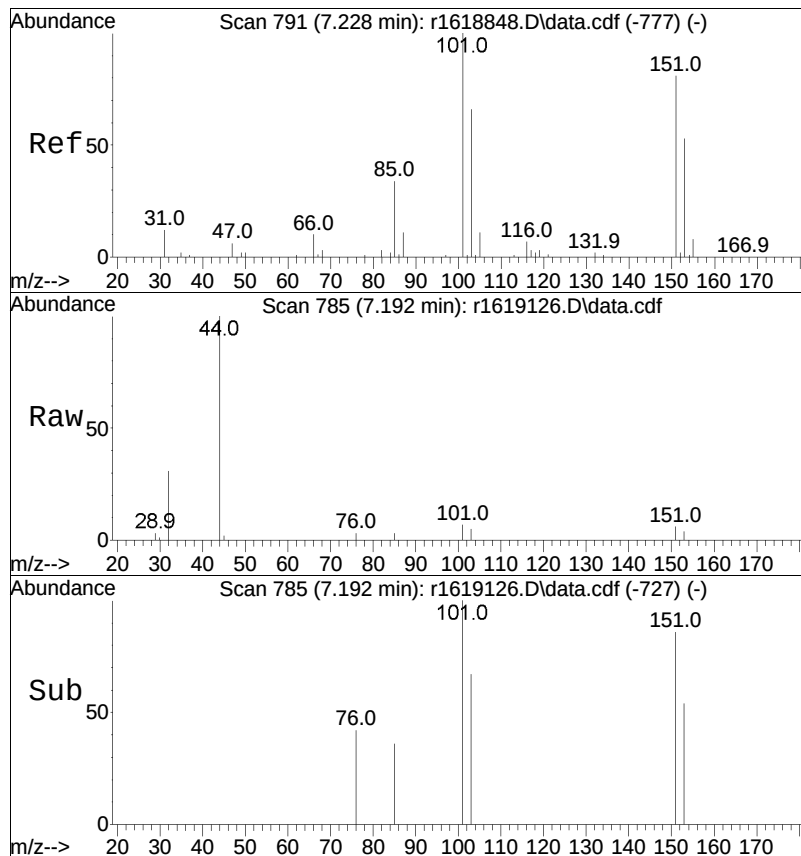




#30
carbon disulfide
Concen: 2.28 ppbV
RT: 7.144 min Scan# 777
Delta R.T. 0.012 min
Lab File: r1619126.D
Acq: 16 Sep 2020 8:50 PM

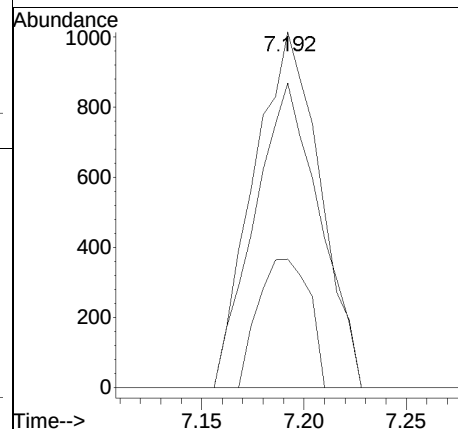
Tgt Ion	Ratio	Lower	Upper
76	100		
44	38.0	7.7	11.5#

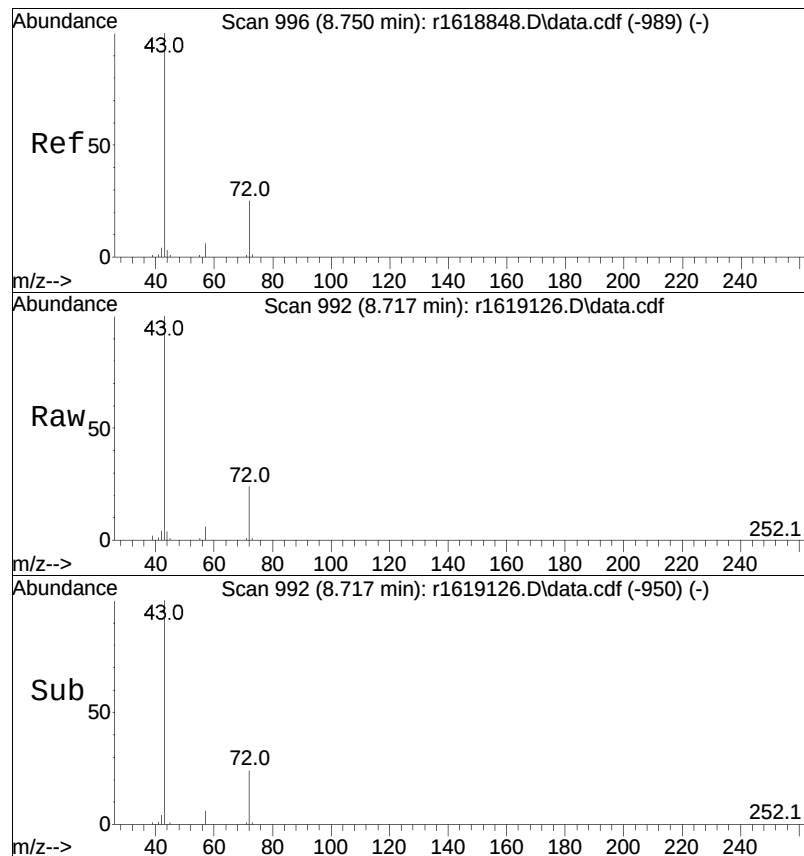




#31
 Freon 113
 Concen: 0.08 ppbV
 RT: 7.192 min Scan# 785
 Delta R.T. 0.018 min
 Lab File: r1619126.D
 Acq: 16 Sep 2020 8:50 PM

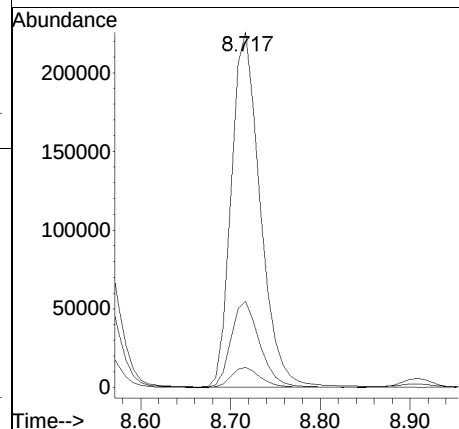
Tgt	Ion:101	Resp:	2284
Ion	Ratio	Lower	Upper
101	100		
85	36.1	27.5	41.3
151	85.6	65.1	97.7

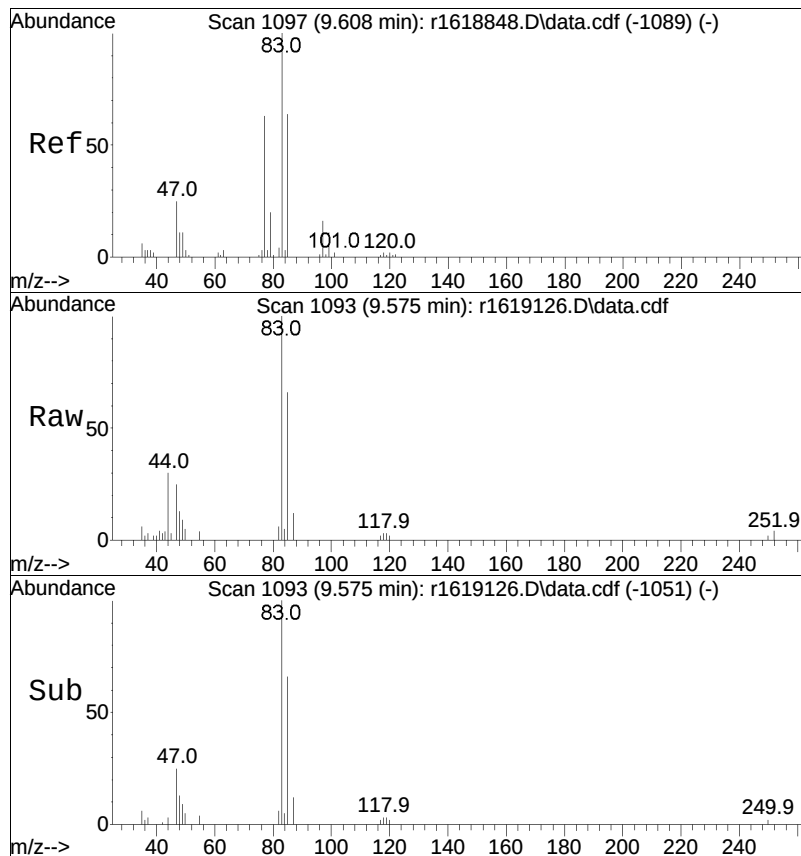




#36
 2-butanone
 Concen: 14.24 ppbV
 RT: 8.717 min Scan# 992
 Delta R.T. 0.017 min
 Lab File: r1619126.D
 Acq: 16 Sep 2020 8:50 PM

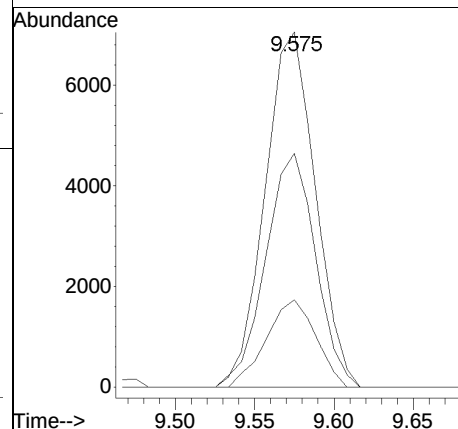
Tgt	Ion:	43	Resp:	504255
Ion	Ratio	Lower	Upper	
43	100			
72	24.2	19.8	29.6	
57	5.6	4.6	6.8	

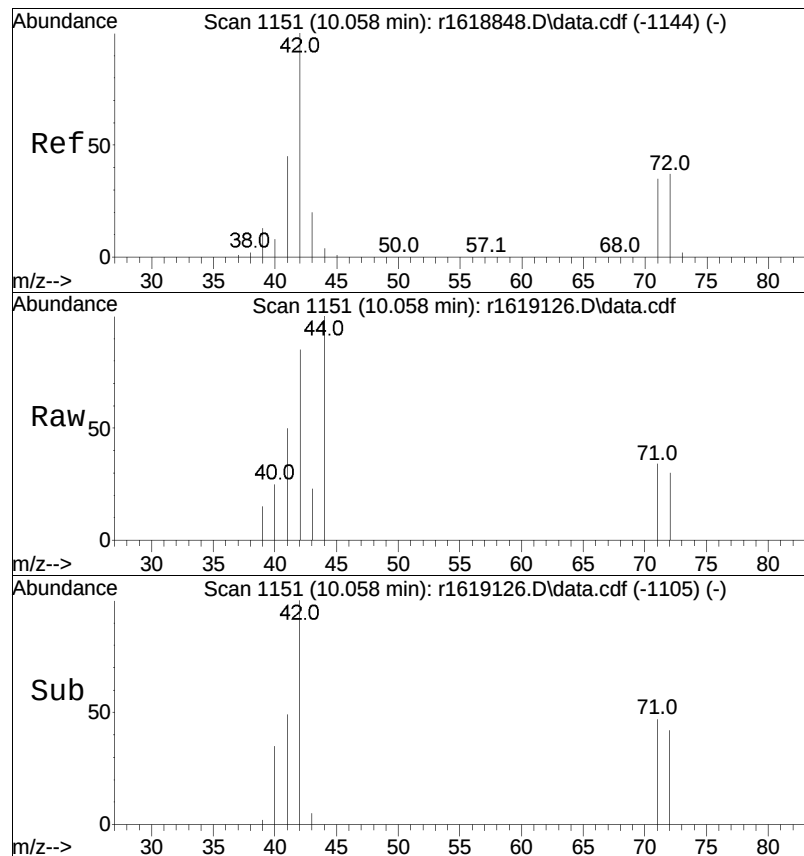




#39
chloroform
Concen: 0.62 ppbV
RT: 9.575 min Scan# 1093
Delta R.T. 0.017 min
Lab File: r1619126.D
Acq: 16 Sep 2020 8:50 PM

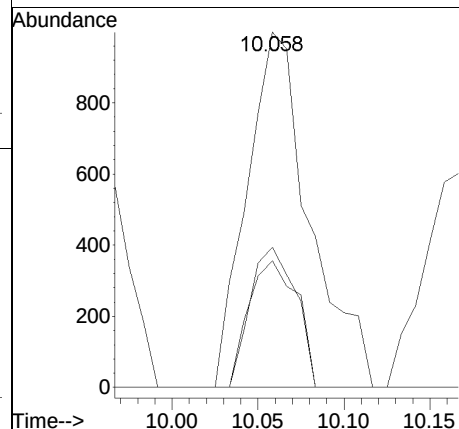
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	15587		
85	65.9		51.5	77.3
47	24.7		20.1	30.1

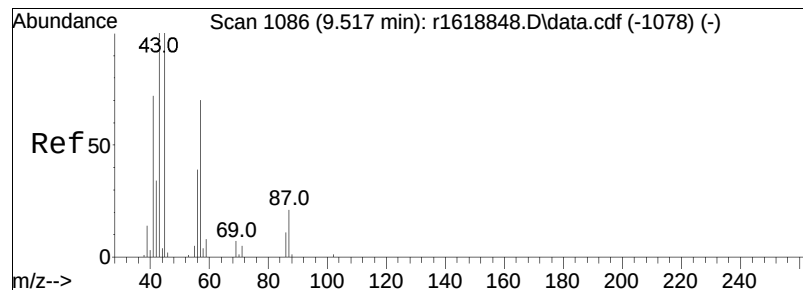




#40
Tetrahydrofuran
Concen: 0.10 ppbV
RT: 10.058 min Scan# 1151
Delta R.T. 0.050 min
Lab File: r1619126.D
Acq: 16 Sep 2020 8:50 PM

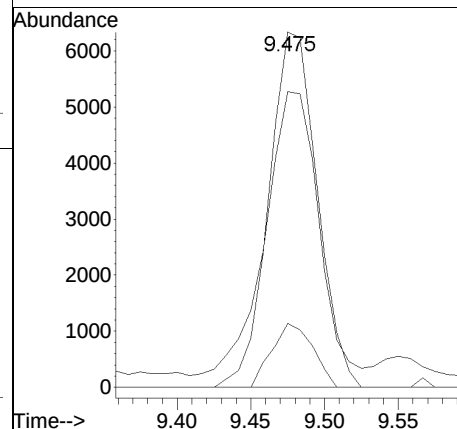
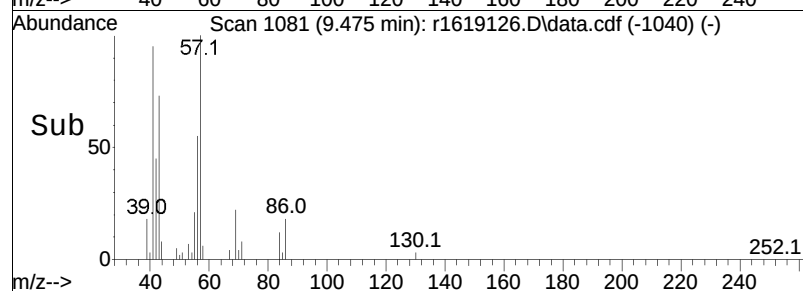
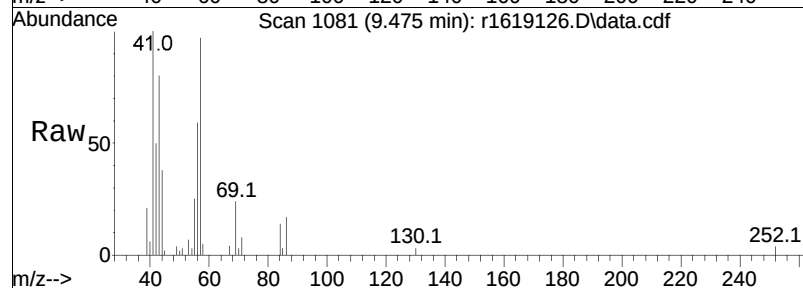
Tgt Ion	Ratio	Lower	Upper
42	100		
71	39.4	28.2	42.2
72	35.6	29.9	44.9

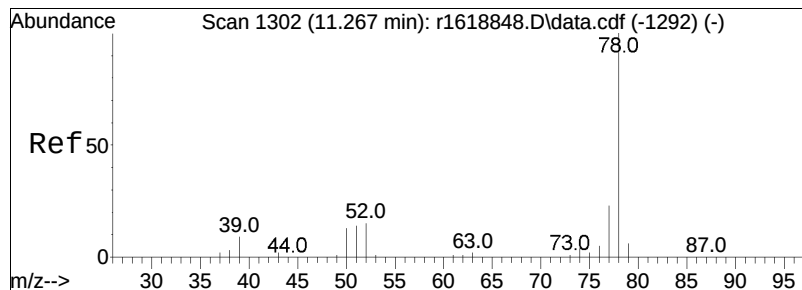




#44
hexane
Concen: 0.51 ppbV
RT: 9.475 min Scan# 1081
Delta R.T. 0.008 min
Lab File: r1619126.D
Acq: 16 Sep 2020 8:50 PM

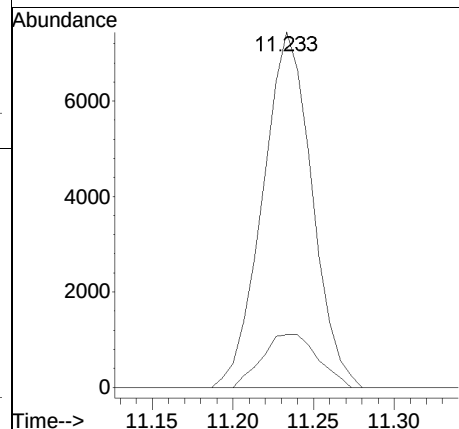
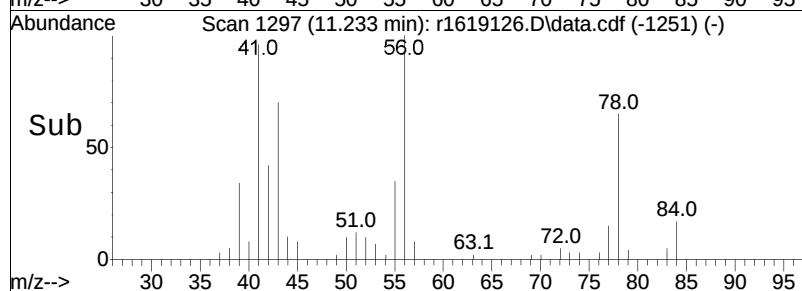
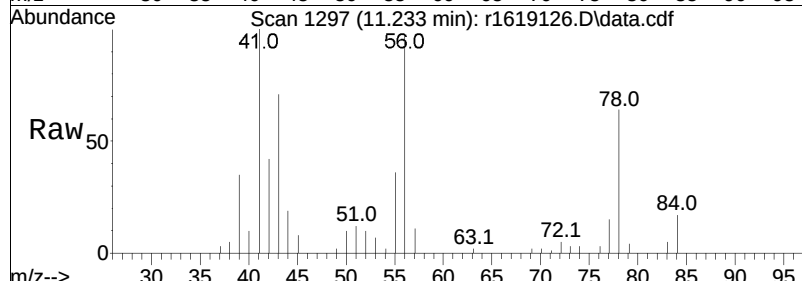
Tgt Ion	Ratio	Lower	Upper
57	100		
43	83.2	114.4	171.6#
86	18.0	12.6	18.8

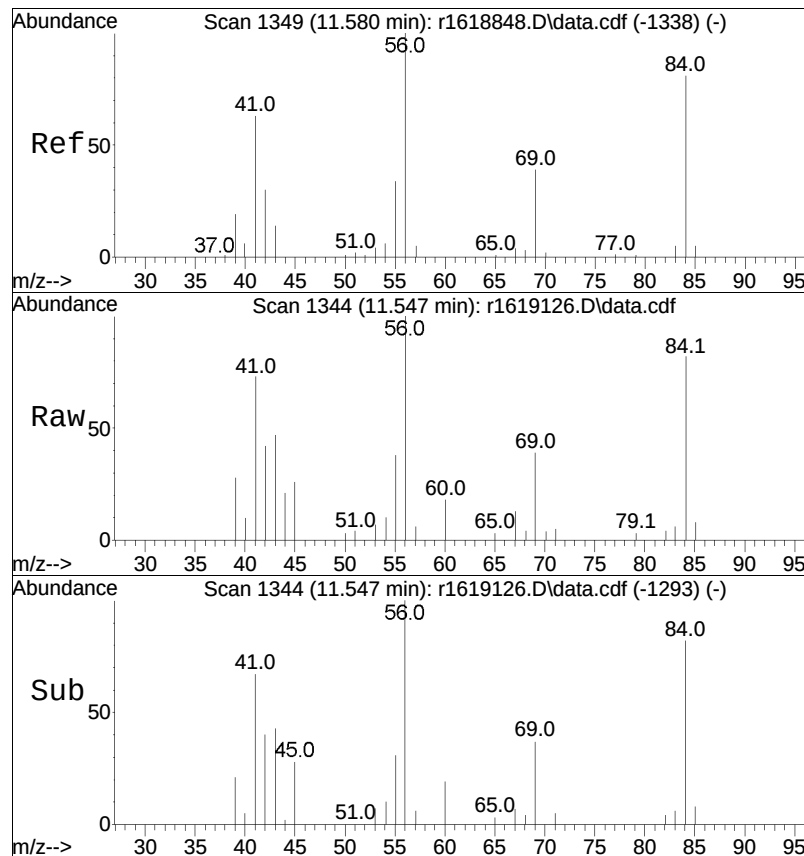




#50
benzene
Concen: 0.26 ppbV
RT: 11.233 min Scan# 1297
Delta R.T. 0.013 min
Lab File: r1619126.D
Acq: 16 Sep 2020 8:50 PM

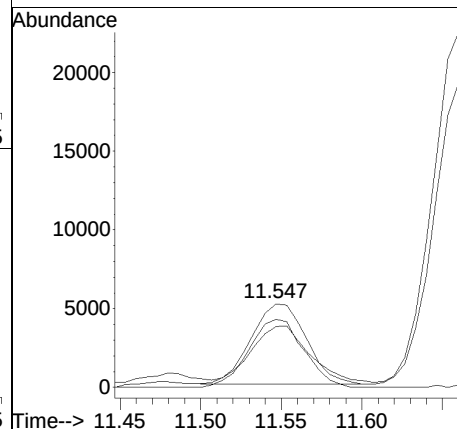
Tgt Ion	Ratio	Lower	Upper
78	100		
52	14.8	11.8	17.6

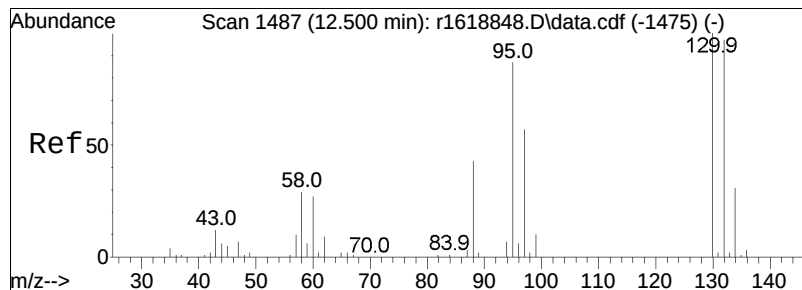




#53
cyclohexane
Concen: 0.40 ppbV
RT: 11.547 min Scan# 1344
Delta R.T. 0.013 min
Lab File: r1619126.D
Acq: 16 Sep 2020 8:50 PM

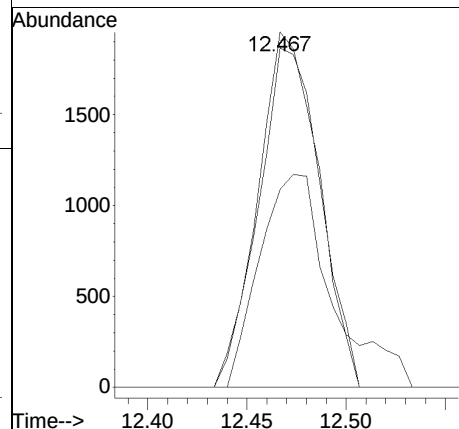
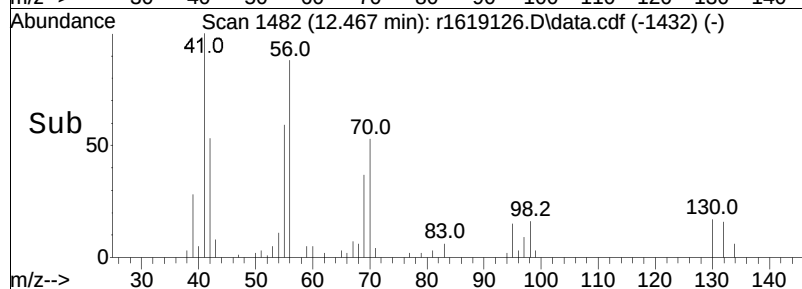
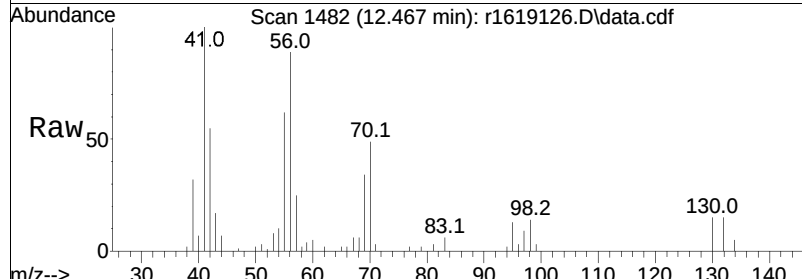
Tgt	Ion: 56	Resp:	12267
Ion	Ratio	Lower	Upper
56	100		
84	81.6	64.6	96.8
41	72.9	50.5	75.7

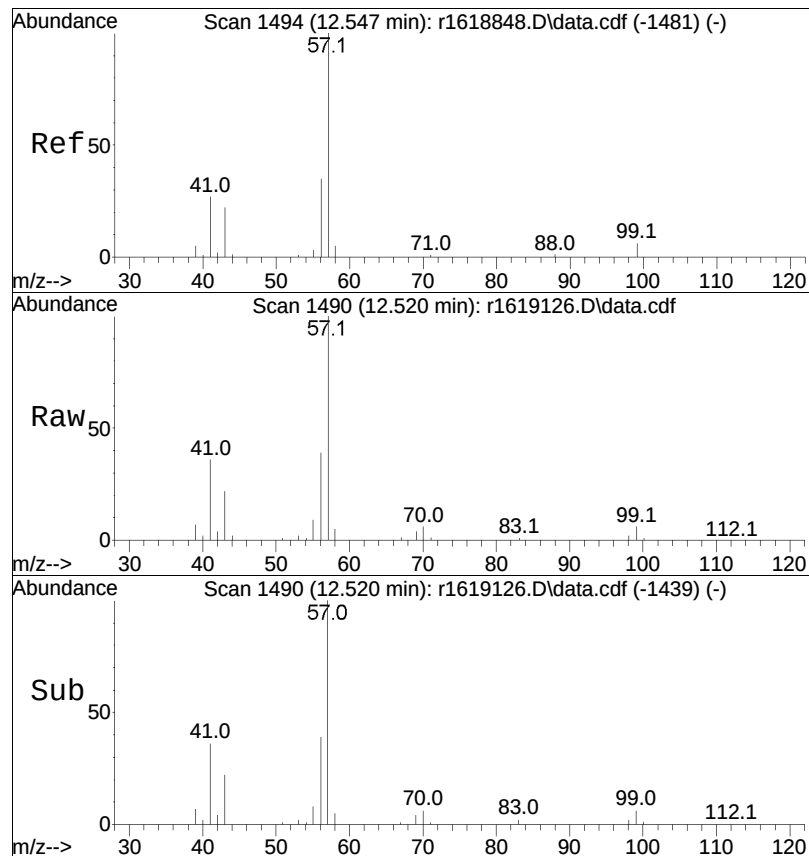




#59
trichloroethene
Concen: 0.16 ppbV
RT: 12.467 min Scan# 1482
Delta R.T. 0.007 min
Lab File: r1619126.D
Acq: 16 Sep 2020 8:50 PM

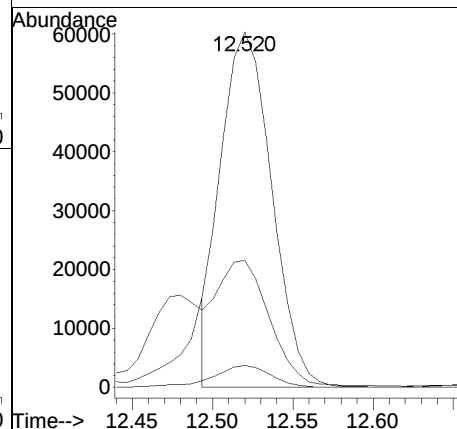
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	4158		
132	95.5		77.4	116.2
97	55.7		45.5	68.3

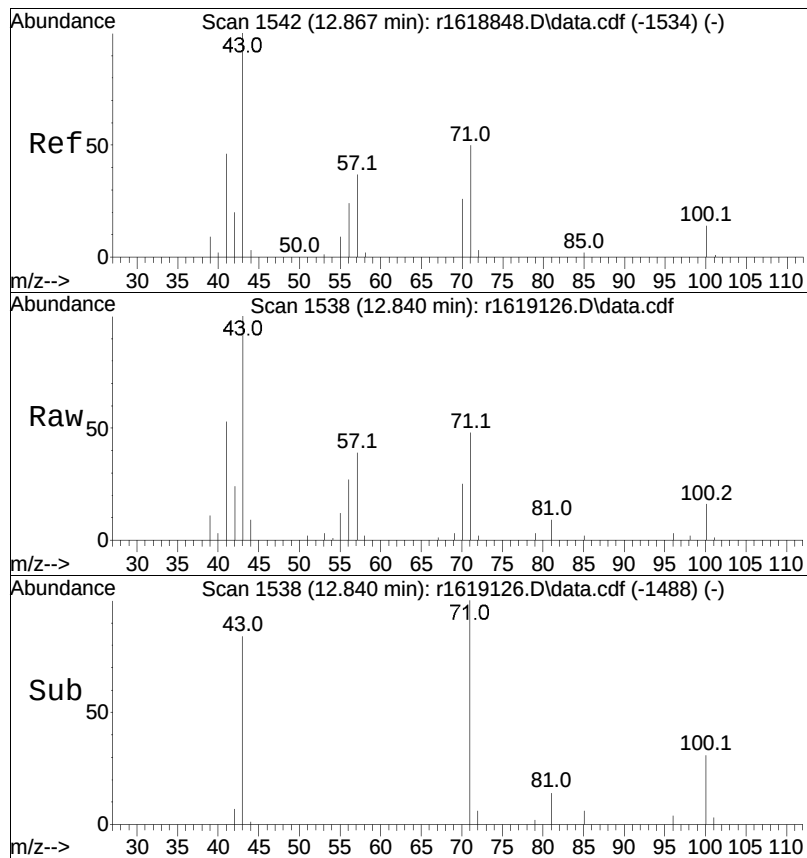




#60
 2,2,4-trimethylpentane
 Concen: 1.36 ppbV m
 RT: 12.520 min Scan# 1490
 Delta R.T. 0.013 min
 Lab File: r1619126.D
 Acq: 16 Sep 2020 8:50 PM

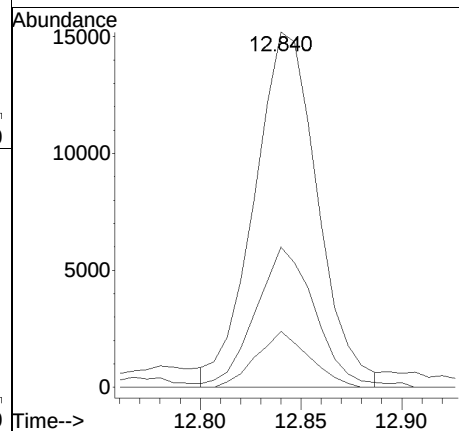
Tgt Ion:	57	Resp:	133674
Ion Ratio	Lower	Upper	
57	100		
99	6.1	4.9	7.3
41	35.7	21.9	32.9#

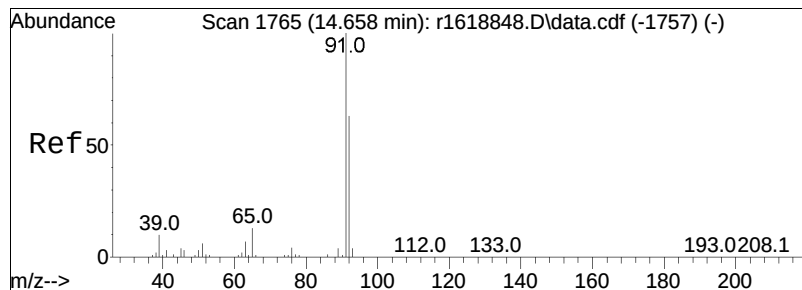




#62
heptane
Concen: 0.68 ppbV m
RT: 12.840 min Scan# 1538
Delta R.T. 0.007 min
Lab File: r1619126.D
Acq: 16 Sep 2020 8:50 PM

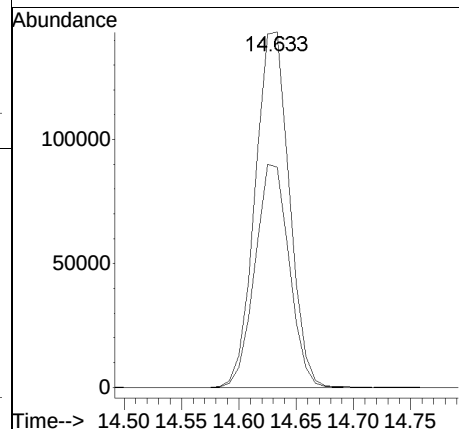
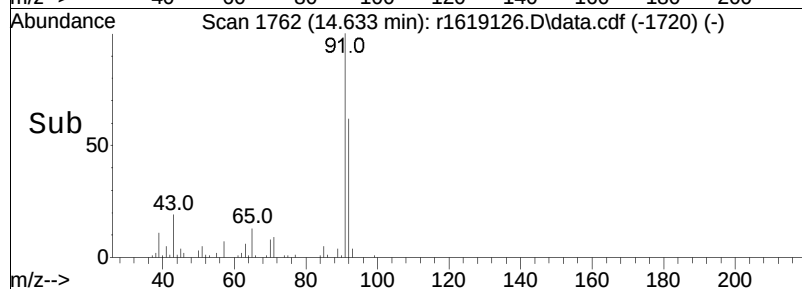
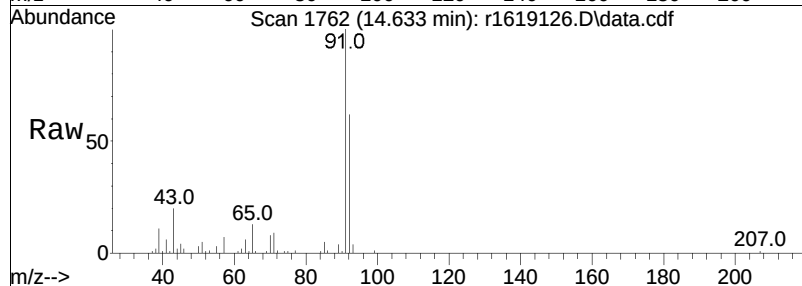
Tgt	Ion	Ratio	Lower	Upper
43	100			
57	39.5	29.9	44.9	
100	15.8	11.5	17.3	

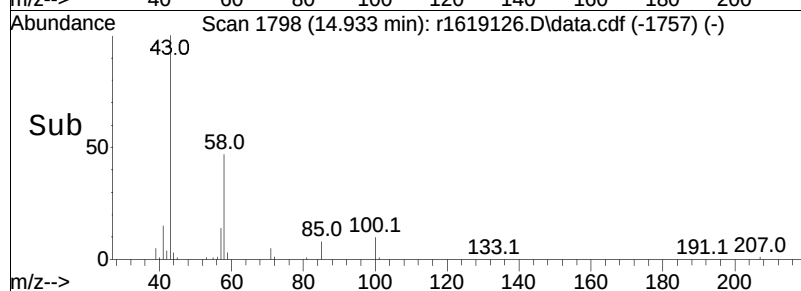
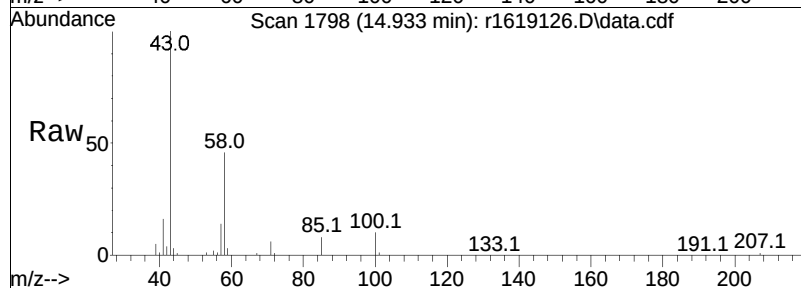
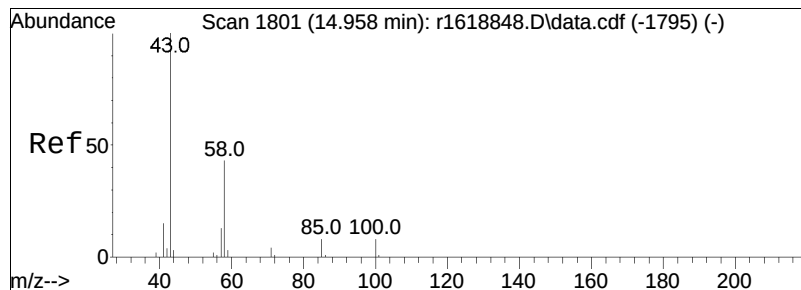




#68
toluene
Concen: 4.00 ppbV
RT: 14.633 min Scan# 1762
Delta R.T. 0.017 min
Lab File: r1619126.D
Acq: 16 Sep 2020 8:50 PM

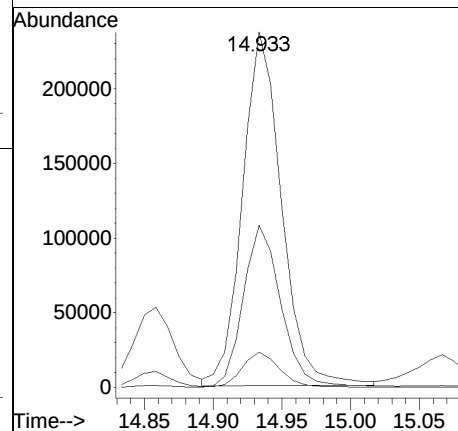
Tgt	Ion	Resp	Lower	Upper
91	100	297980		
92	62.0	50.6	75.8	

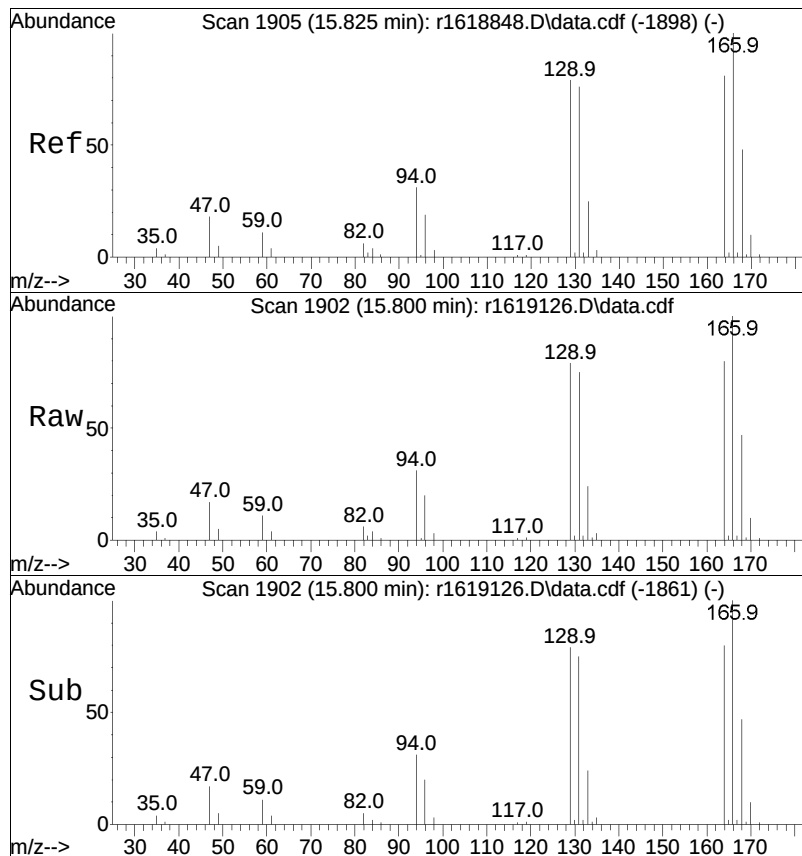




#72
 2-hexanone
 Concen: 8.88 ppbV
 RT: 14.933 min Scan# 1798
 Delta R.T. 0.008 min
 Lab File: r1619126.D
 Acq: 16 Sep 2020 8:50 PM

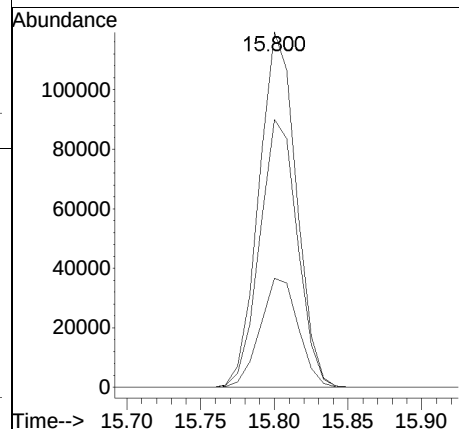
Tgt	Ion	Ratio	Lower	Upper
43	100			
58	45.6	35.8	53.8	
100	9.9	8.0	12.0	

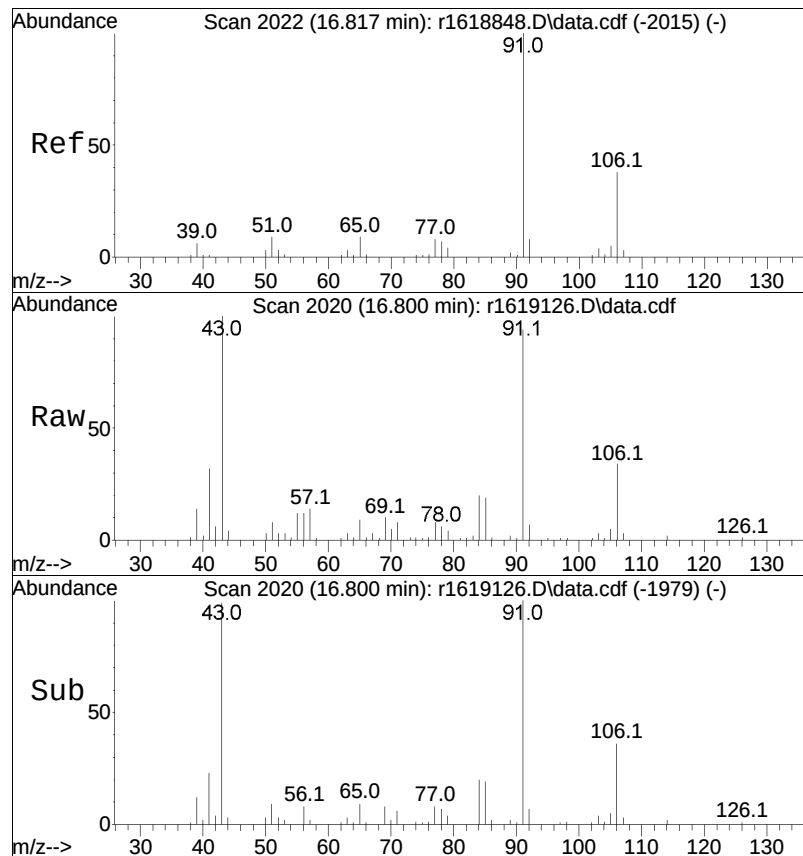




#78
 tetrachloroethene
 Concen: 6.56 ppbV
 RT: 15.800 min Scan# 1902
 Delta R.T. 0.008 min
 Lab File: r1619126.D
 Acq: 16 Sep 2020 8:50 PM

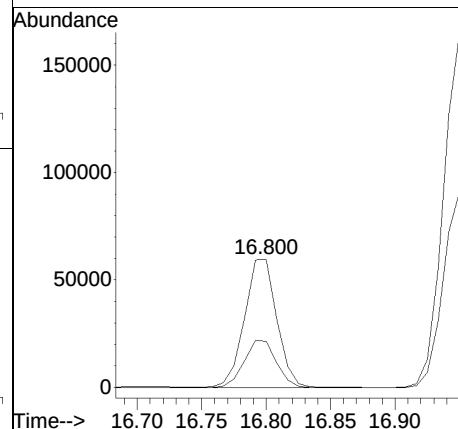
Tgt	Ion	Ratio	Resp	Lower	Upper
166	100		211085		
131	75.4	61.0		91.6	
94	30.7	24.6		37.0	

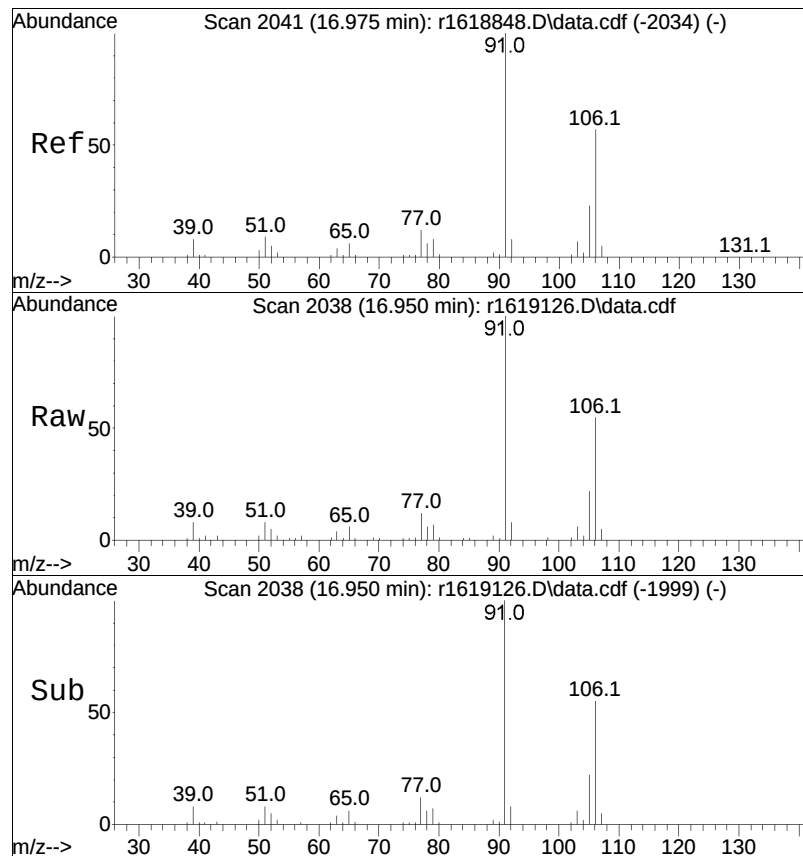




#81
ethylbenzene
Concen: 1.10 ppbV
RT: 16.800 min Scan# 2020
Delta R.T. 0.008 min
Lab File: r1619126.D
Acq: 16 Sep 2020 8:50 PM

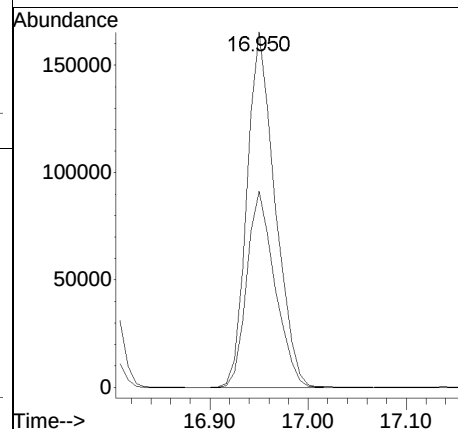
Tgt	Ion	Resp	Lower	Upper
91	100	104203		
106	36.0	30.3	45.5	

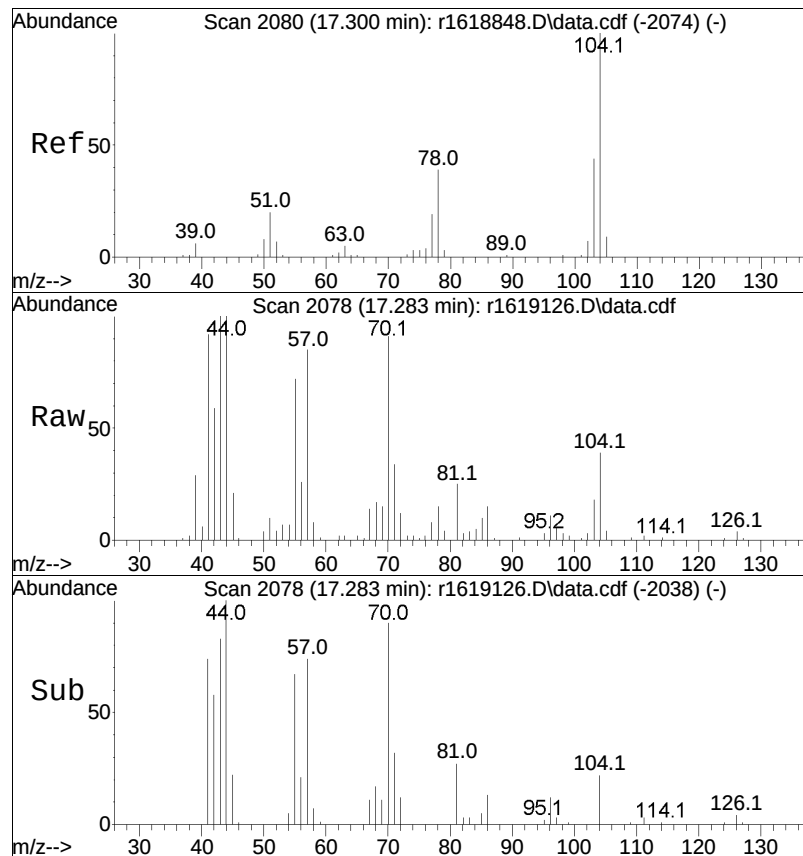




#83
 m+p-xylene
 Concen: 4.32 ppbV
 RT: 16.950 min Scan# 2038
 Delta R.T. -0.008 min
 Lab File: r1619126.D
 Acq: 16 Sep 2020 8:50 PM

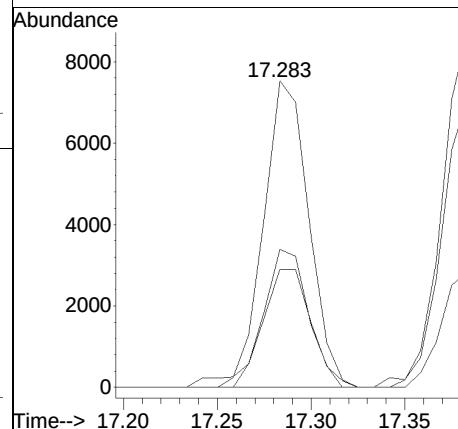
Tgt Ion	Ratio	Lower	Upper
91	100		
106	55.2	45.2	67.8

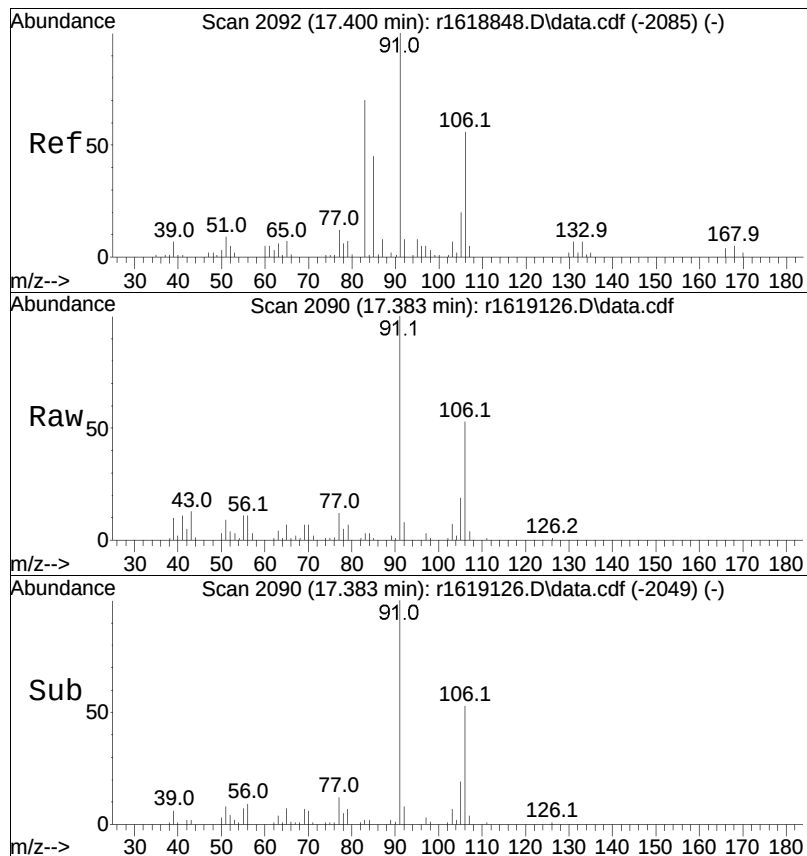




#85
styrene
Concen: 0.20 ppbV
RT: 17.283 min Scan# 2078
Delta R.T. 0.000 min
Lab File: r1619126.D
Acq: 16 Sep 2020 8:50 PM

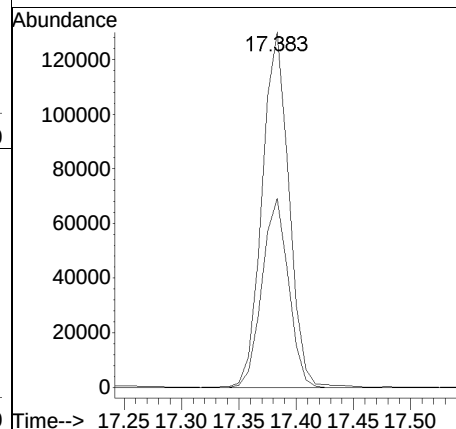
Tgt	Ion	Ratio	Resp	Lower	Upper
104	100		12625		
103	45.0	35.3		52.9	
78	38.6	31.5		47.3	

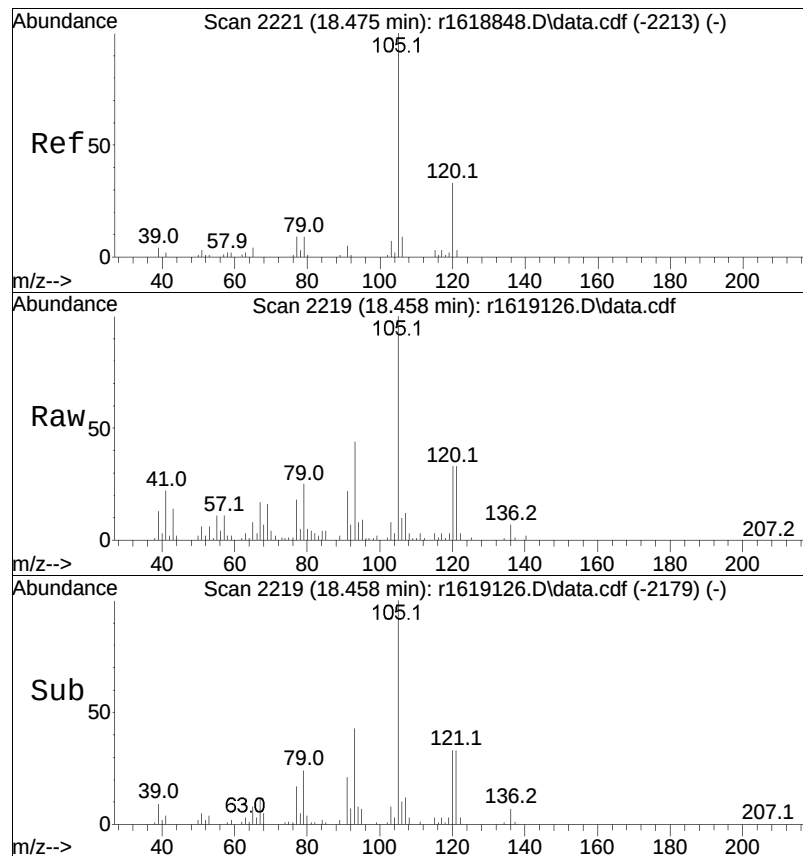




#87
 o-xylene
 Concen: 2.77 ppbV
 RT: 17.383 min Scan# 2090
 Delta R.T. 0.008 min
 Lab File: r1619126.D
 Acq: 16 Sep 2020 8:50 PM

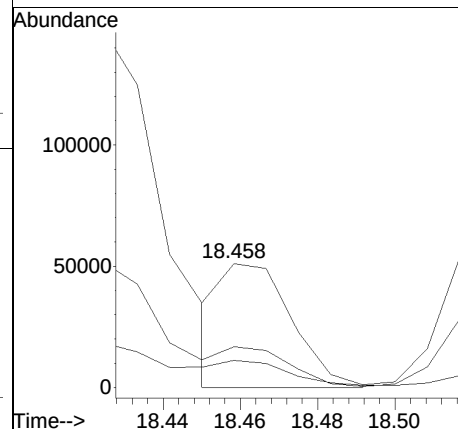
Tgt Ion:	91	Resp:	212172
Ion Ratio	Lower	Upper	
91	100		
106	53.2	44.6	66.8

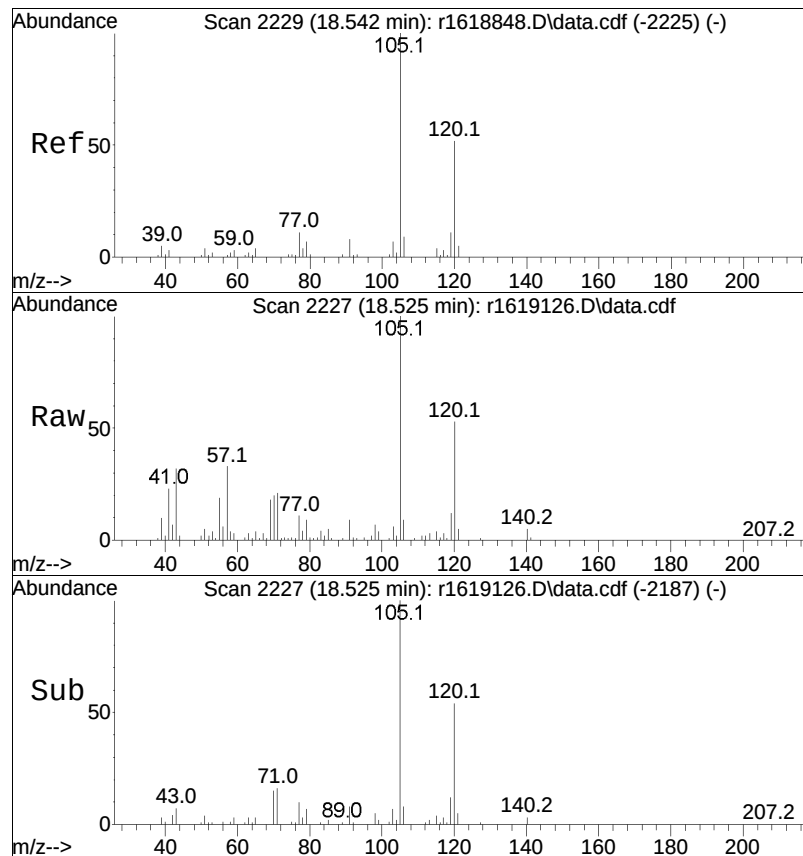




#96
 4-ethyl toluene
 Concen: 0.57 ppbV m
 RT: 18.458 min Scan# 2219
 Delta R.T. 0.000 min
 Lab File: r1619126.D
 Acq: 16 Sep 2020 8:50 PM

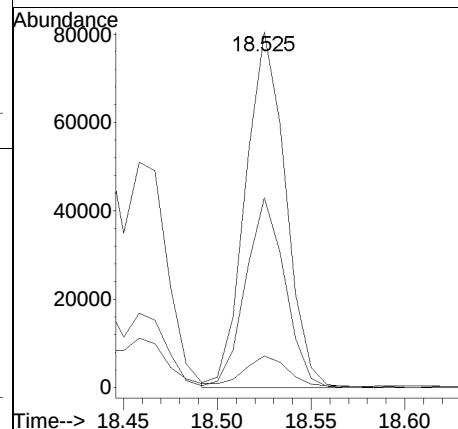
Tgt	Ion:105	Resp:	64667
Ion	Ratio	Lower	Upper
105	100		
120	32.9	26.4	39.6
91	21.9	7.2	10.8#

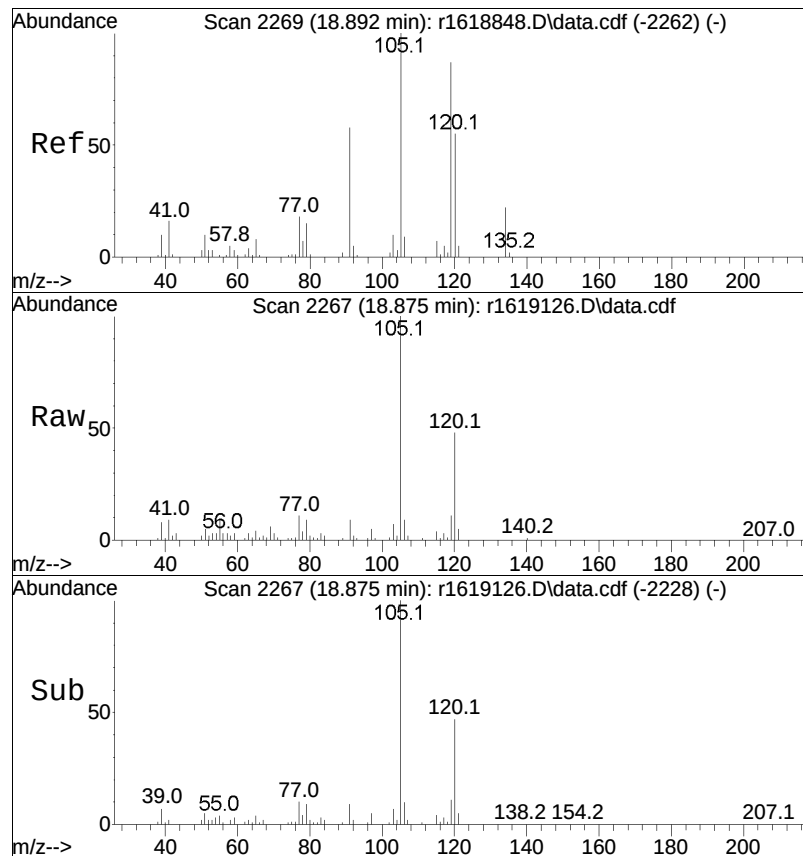




#97
 1,3,5-trimethylbenzene
 Concen: 1.23 ppbV
 RT: 18.525 min Scan# 2227
 Delta R.T. 0.000 min
 Lab File: r1619126.D
 Acq: 16 Sep 2020 8:50 PM

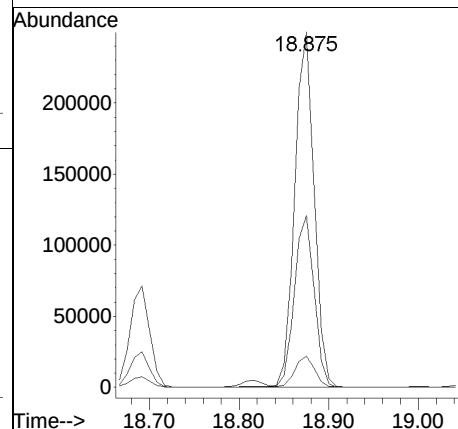
Tgt Ion	Ratio	Lower	Upper
105	100		
120	53.4	41.2	61.8
91	8.9	6.7	10.1





#99
 1,2,4-trimethylbenzene
 Concen: 4.14 ppbV
 RT: 18.875 min Scan# 2267
 Delta R.T. 0.008 min
 Lab File: r1619126.D
 Acq: 16 Sep 2020 8:50 PM

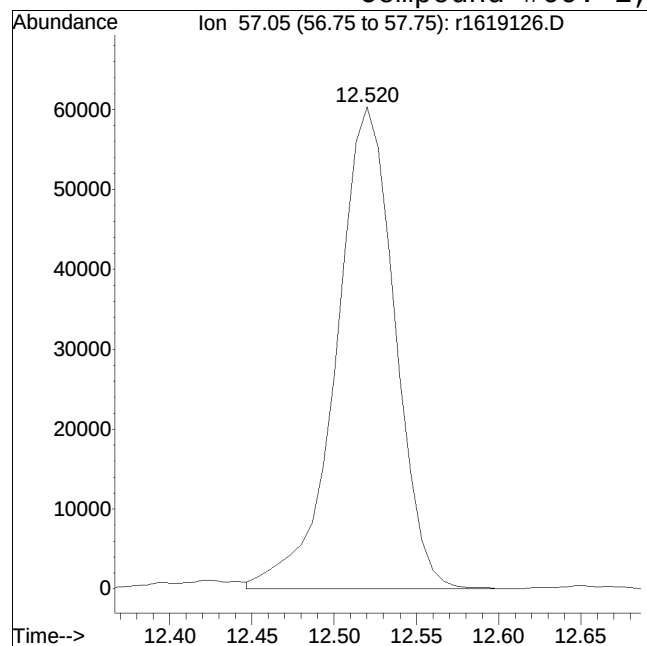
Tgt Ion:	105	Resp:	377548
Ion Ratio	Lower	Upper	
105	100		
120	48.4	44.0	66.0
91	8.8	46.2	69.4#



Manual Integration Report

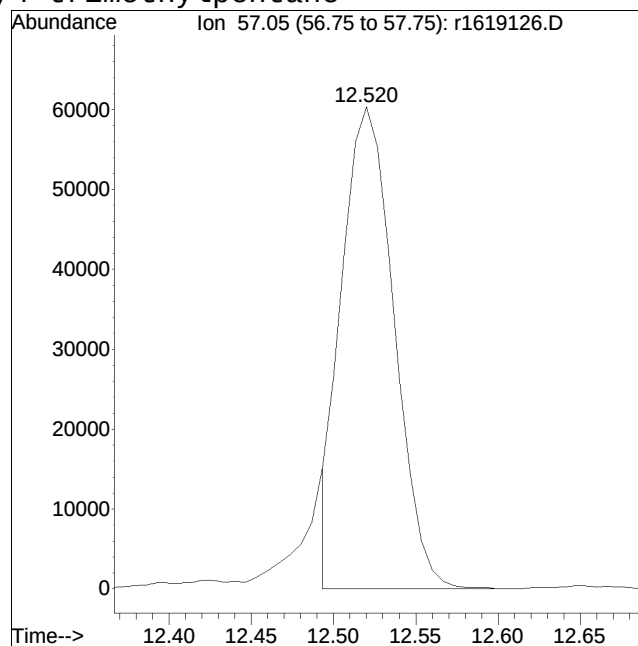
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619126.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:8: 0 Instrument :
Sample : L2037647-01,3,250,250 Quant Date : 9/17/2020 5:40 am

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 149841

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

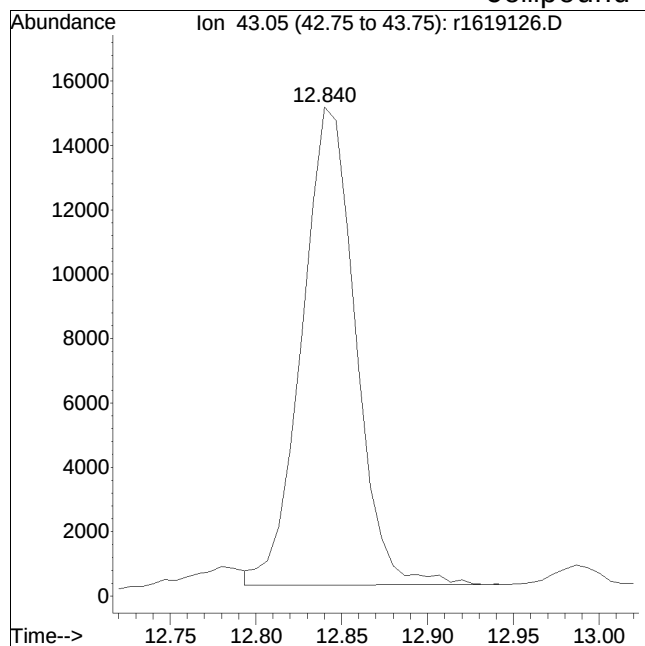


Manual Peak Response = 133674 M6

Manual Integration Report

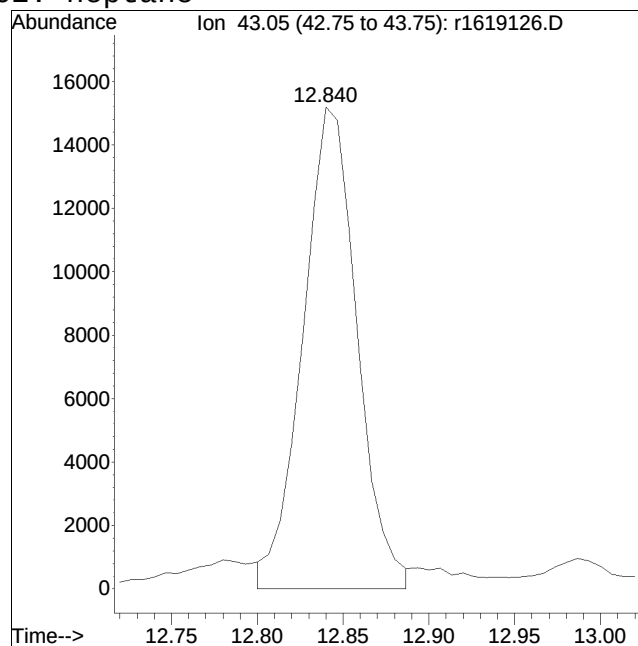
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619126.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:8: 0 Instrument :
Sample : L2037647-01,3,250,250 Quant Date : 9/17/2020 5:40 am

Compound #62: heptane



Original Peak Response = 32120

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

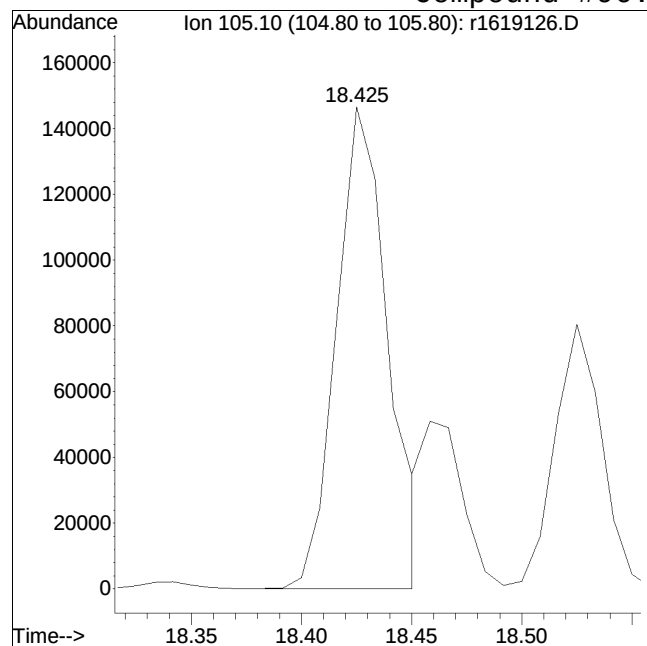


Manual Peak Response = 33267 M6

Manual Integration Report

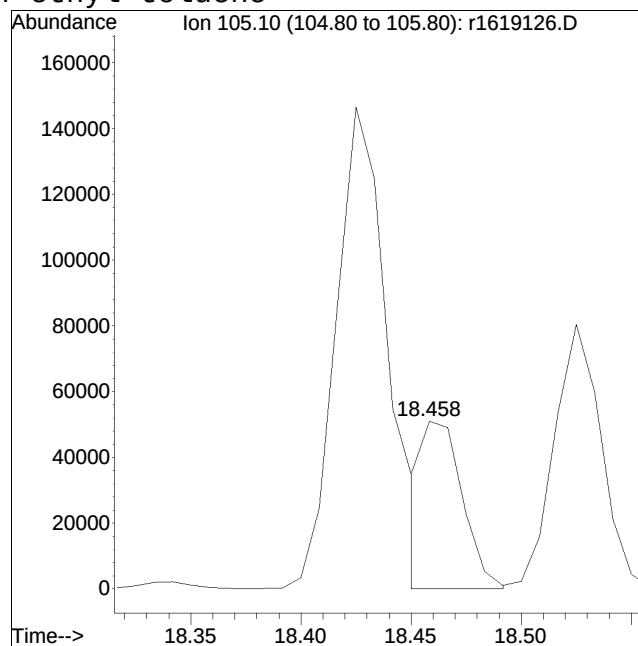
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619126.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:8: 0 Instrument :
Sample : L2037647-01,3,250,250 Quant Date : 9/17/2020 5:40 am

Compound #96: 4-ethyl toluene



Original Peak Response = 238459

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 64667 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619127.D
 Acq On : 16 Sep 2020 9:30 PM
 Operator : AIRLAB16:TS
 Sample : L2037647-02,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:00:42 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.408	49	250961	10.000	ppbV	0.02
Standard Area = 289019			Recovery =		86.83%	
43) 1,4-difluorobenzene	11.673	114	826145	10.000	ppbV	0.00
Standard Area = 862875			Recovery =		95.74%	
67) chlorobenzene-D5	16.408	54	112204	10.000	ppbV	0.00
Standard Area = 122360			Recovery =		91.70%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.874	85	27599	1.160	ppbV	98
6) chloromethane	0.000		0	N.D.	d	
7) Freon-114	0.000		0	N.D.	d	
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.468		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.182	31	18149	2.016	ppbV	88
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.743	43	94372M6	4.334	ppbV	
21) trichlorofluoromethane	5.933	101	20115	1.042	ppbV	89
22) isopropyl alcohol	6.090	45	10914	0.396	ppbV #	96
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	6.820	59	7681	0.383	ppbV #	88
28) methylene chloride	6.862	49	4703	0.268	ppbV	95
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	7.144	76	56749	1.236	ppbV #	21
31) Freon 113	7.198	101	1983	0.075	ppbV #	81
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	8.708	43	704470	20.525	ppbV	100
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.575	83	68445	2.821	ppbV	99
40) Tetrahydrofuran	10.050	42	4324	0.178	ppbV	97
42) 1,2-dichloroethane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619127.D
 Acq On : 16 Sep 2020 9:30 PM
 Operator : AIRLAB16:TS
 Sample : L2037647-02,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:00:42 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
44) hexane	9.483	57	19264	0.684	ppbV	#	60
48) 1,1,1-trichloroethane	10.708		0	N.D.			
50) benzene	11.233	78	13486	0.222	ppbV		94
52) carbon tetrachloride	11.400		0	N.D.			
53) cyclohexane	11.547	56	14896	0.489	ppbV		97
56) 1,2-dichloropropane	12.053		0	N.D.			
57) bromodichloromethane	0.000		0	N.D.	d		
58) 1,4-dioxane	12.507		0	N.D.			
59) trichloroethene	12.473	130	6265	0.239	ppbV		94
60) 2,2,4-trimethylpentane	12.520	57	159400M6	1.655	ppbV		
62) heptane	12.840	43	37507M6	0.782	ppbV		
63) cis-1,3-dichloropropene	0.000		0	N.D.			
64) 4-methyl-2-pentanone	0.000		0	N.D.	d		
65) trans-1,3-dichloropropene	0.000		0	N.D.			
66) 1,1,2-trichloroethane	14.333		0	N.D.			
68) toluene	14.633	91	336966	4.846	ppbV		98
72) 2-hexanone	14.933	43	555722	11.313	ppbV		100
74) dibromochloromethane	0.000		0	N.D.			
75) 1,2-dibromoethane	0.000		0	N.D.			
78) tetrachloroethene	15.800	166	257879	8.587	ppbV		94
80) chlorobenzene	0.000		0	N.D.	d		
81) ethylbenzene	16.800	91	100729	1.144	ppbV		99
83) m+p-xylene	16.950	91	317756	4.474	ppbV		98
84) bromoform	0.000		0	N.D.			
85) styrene	17.292	104	8348	0.139	ppbV		97
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	d		
87) o-xylene	17.383	91	204585	2.864	ppbV		98
96) 4-ethyl toluene	18.458	105	60288M6	0.567	ppbV		
97) 1,3,5-trimethylbenzene	18.525	105	107337	1.187	ppbV		98
99) 1,2,4-trimethylbenzene	18.875	105	336424	3.957	ppbV	#	63
101) Benzyl Chloride	0.000		0	N.D.	d		
102) 1,3-dichlorobenzene	19.058		0	N.D.			
103) 1,4-dichlorobenzene	19.058		0	N.D.			
107) 1,2-dichlorobenzene	19.350		0	N.D.			
115) 1,2,4-trichlorobenzene	20.867		0	N.D.			
119) hexachlorobutadiene	0.000		0	N.D.			

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619127.D
 Acq On : 16 Sep 2020 9:30 PM
 Operator : AIRLAB16:TS
 Sample : L2037647-02,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

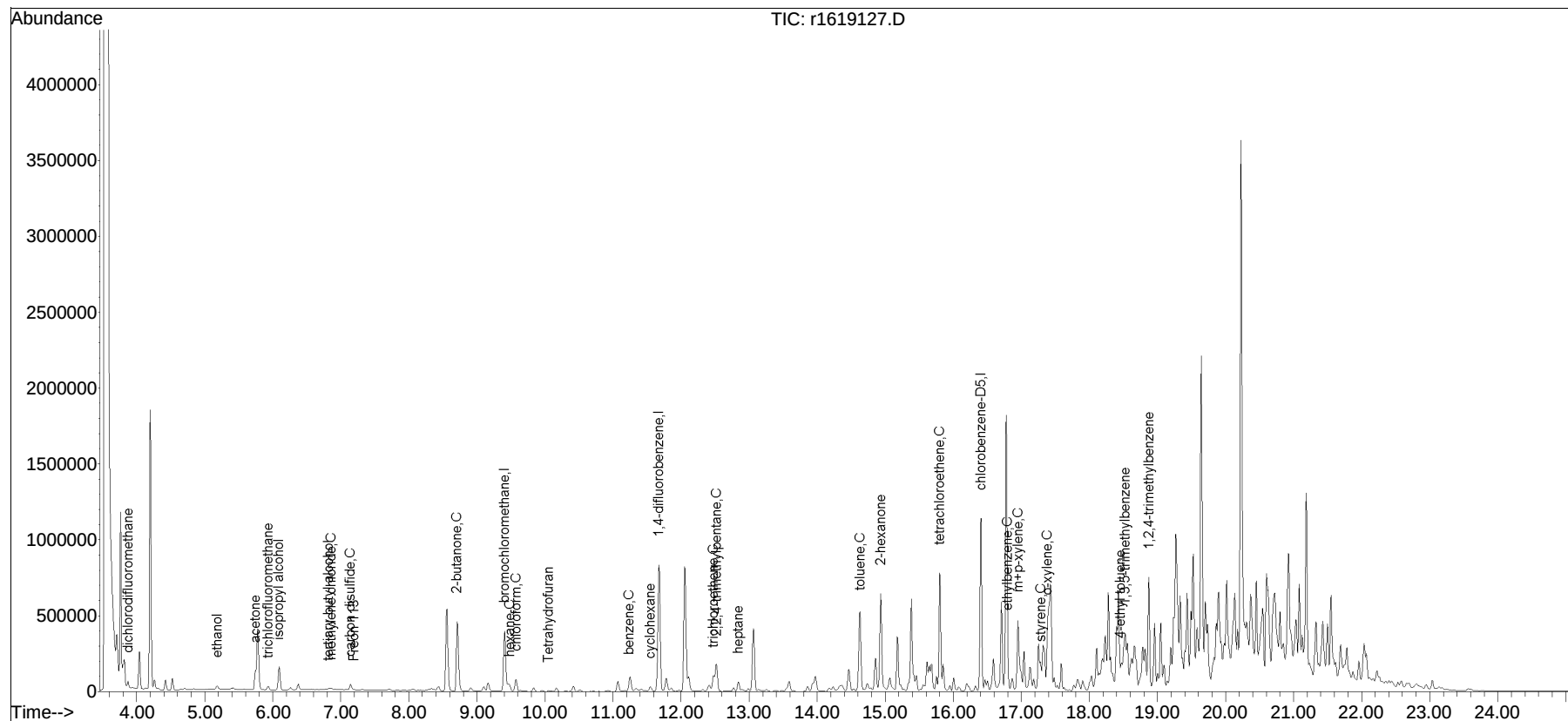
Quant Time: Sep 17 08:00:42 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

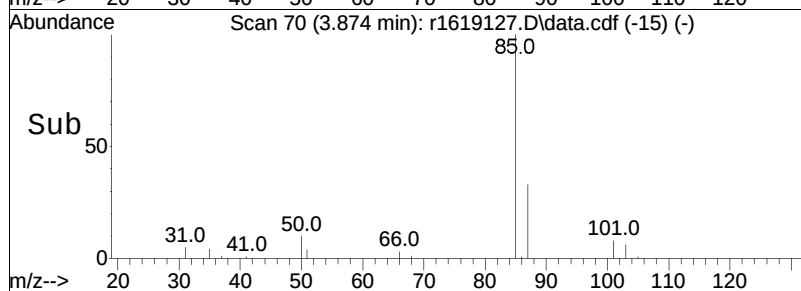
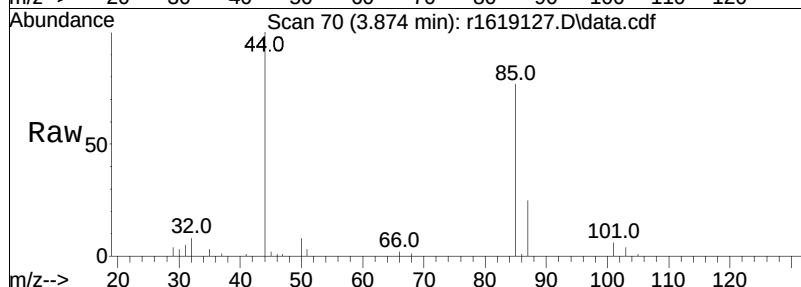
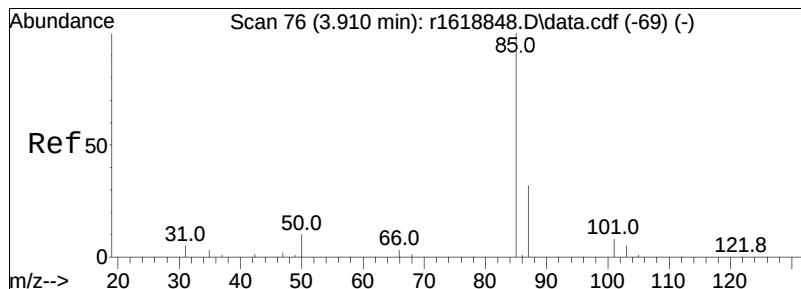
CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

```
Data Path : 0:\Forensics\Data\AirLab16\2020\09\200916T\
Data File : r1619127.D
Acq On    : 16 Sep 2020    9:30 PM
Operator  : AIRLAB16:TS
Sample    : L2037647-02,3,250,250
Misc      : WG1410723,ICAL17102
ALS Vial  : 0    Sample Multiplier: 1
```

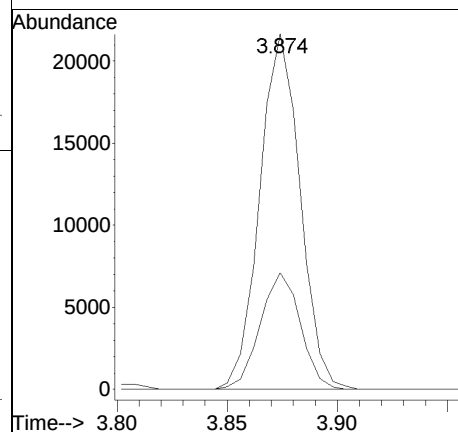
Quant Time: Sep 17 08:00:42 2020
Quant Method : 0:\Forensics\Data\AirLab16\2020\09\200916T\TFS16_200902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Sep 16 13:18:40 2020
Response via : Initial Calibration

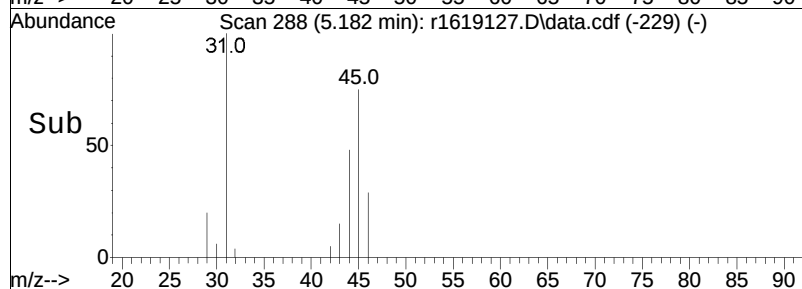
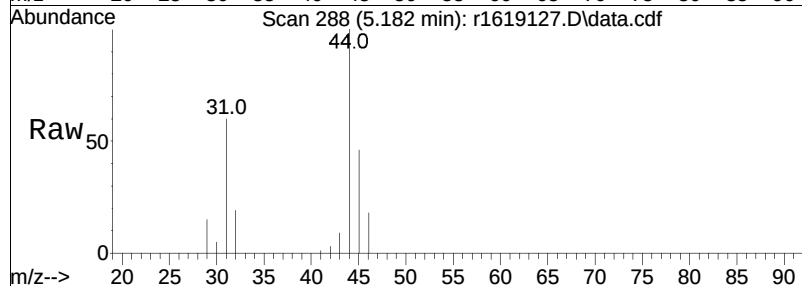
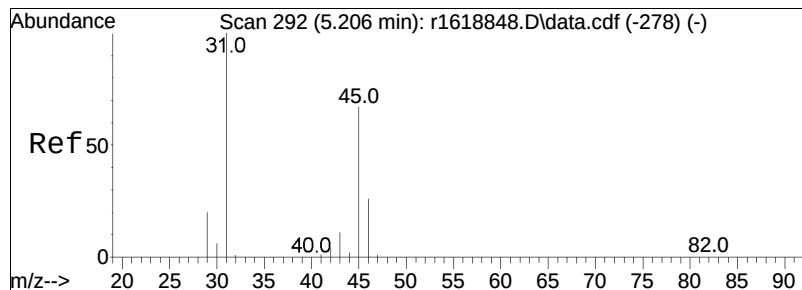




#5
 dichlorodifluoromethane
 Concen: 1.16 ppbV
 RT: 3.874 min Scan# 70
 Delta R.T. 0.000 min
 Lab File: r1619127.D
 Acq: 16 Sep 2020 9:30 PM

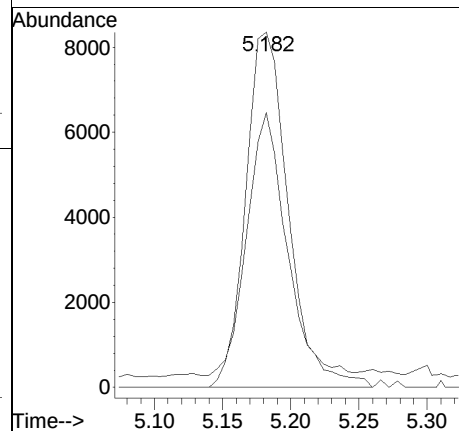
Tgt Ion: 85 Resp: 27599
 Ion Ratio Lower Upper
 85 100
 87 32.9 25.4 38.2

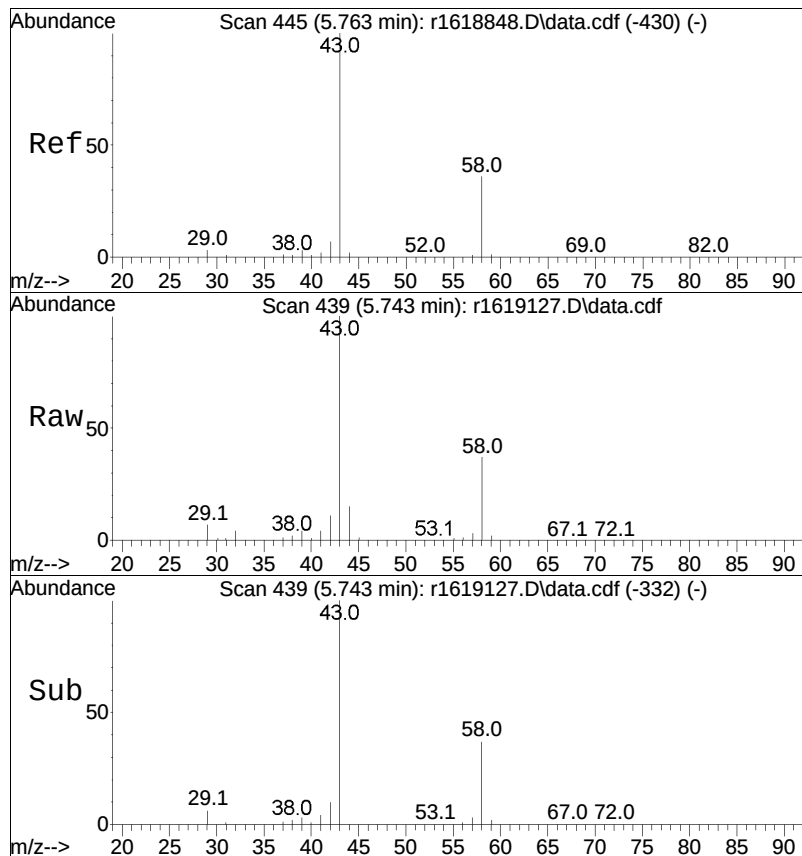




#15
ethanol
Concen: 2.02 ppbV
RT: 5.182 min Scan# 288
Delta R.T. 0.024 min
Lab File: r1619127.D
Acq: 16 Sep 2020 9:30 PM

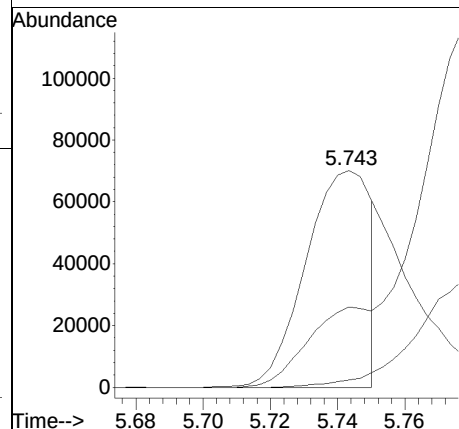
Tgt	Ion	Ratio	Lower	Upper
31	100			
45	77.3	54.0	81.0	

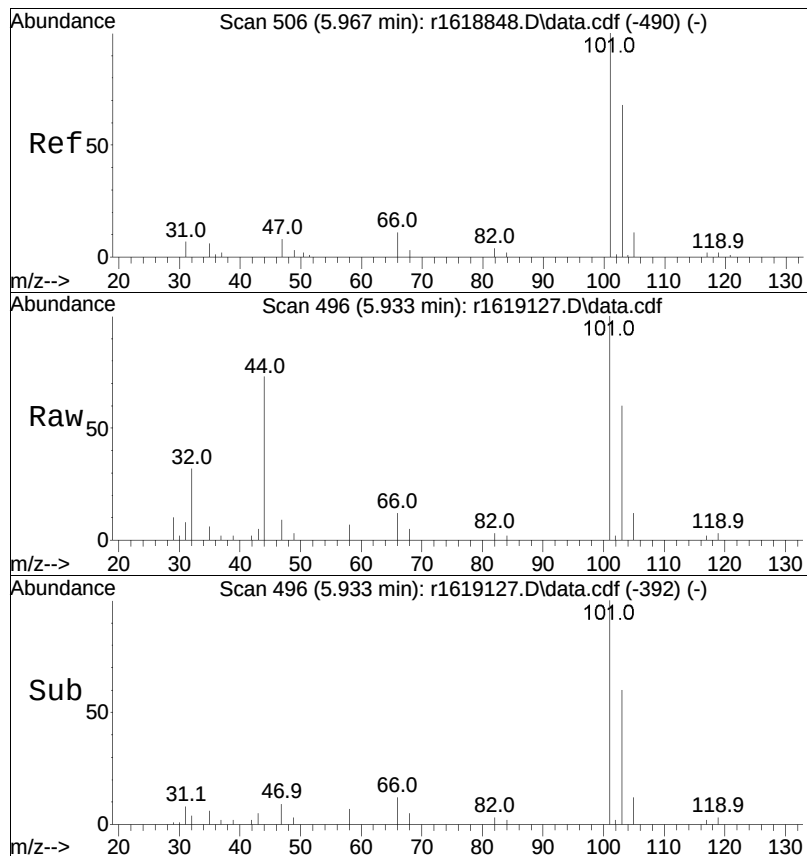




#19
 acetone
 Concen: 4.33 ppbV m
 RT: 5.743 min Scan# 439
 Delta R.T. 0.027 min
 Lab File: r1619127.D
 Acq: 16 Sep 2020 9:30 PM

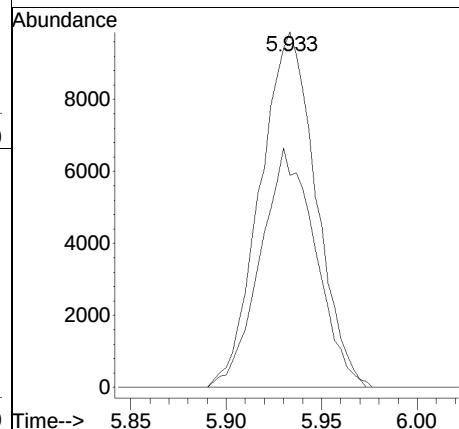
Tgt	Ion: 43	Resp:	94372
Ion	Ratio	Lower	Upper
43	100		
58	37.1	28.9	43.3
57	3.5	0.7	1.1#

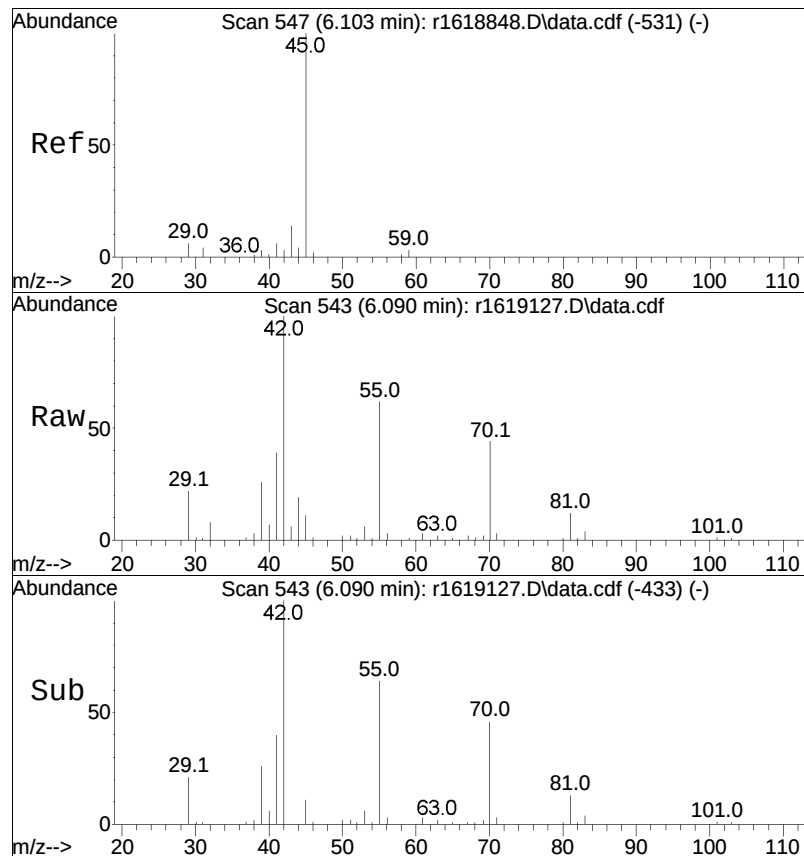




#21
trichlorofluoromethane
Concen: 1.04 ppbV
RT: 5.933 min Scan# 496
Delta R.T. 0.017 min
Lab File: r1619127.D
Acq: 16 Sep 2020 9:30 PM

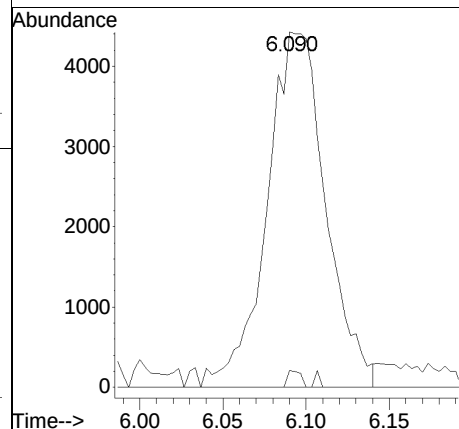
Tgt	Ion	Ratio	Lower	Upper
101	100			
103	59.7	54.6	82.0	

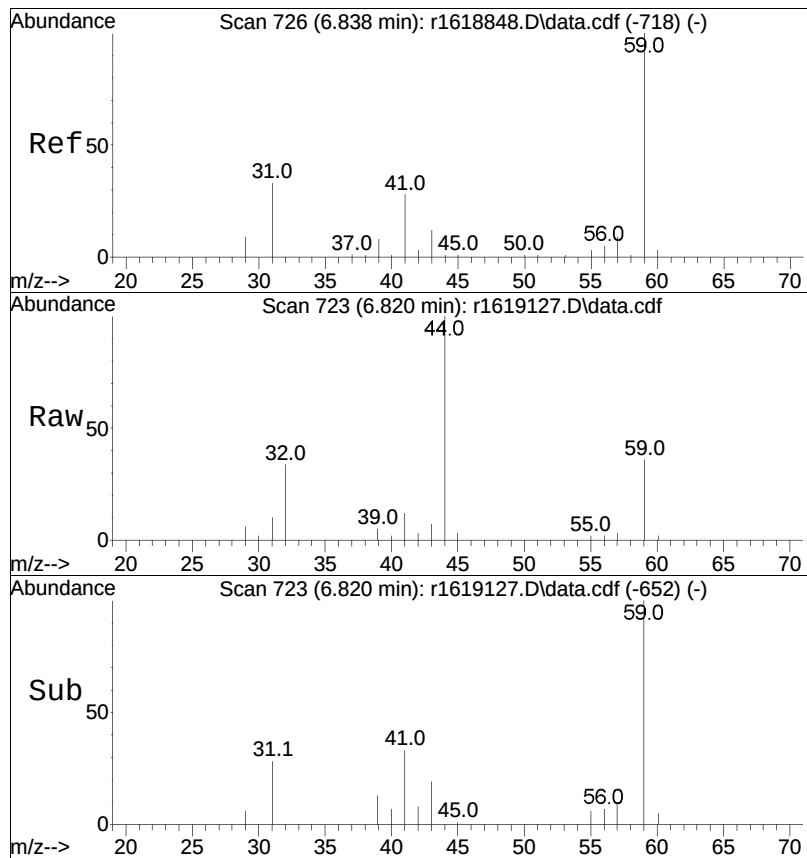




#22
 isopropyl alcohol
 Concen: 0.40 ppbV
 RT: 6.090 min Scan# 543
 Delta R.T. 0.037 min
 Lab File: r1619127.D
 Acq: 16 Sep 2020 9:30 PM

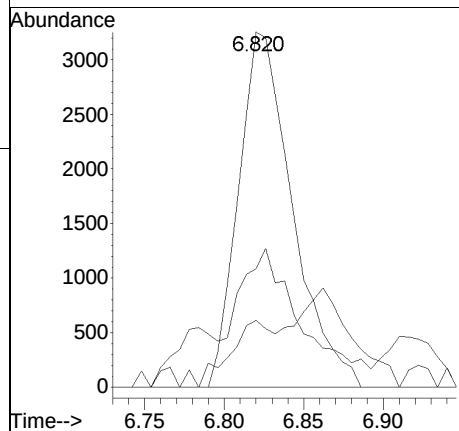
Tgt Ion:	45	Resp:	10914
Ion Ratio	100	Lower	Upper
59	4.7	2.7	4.1#

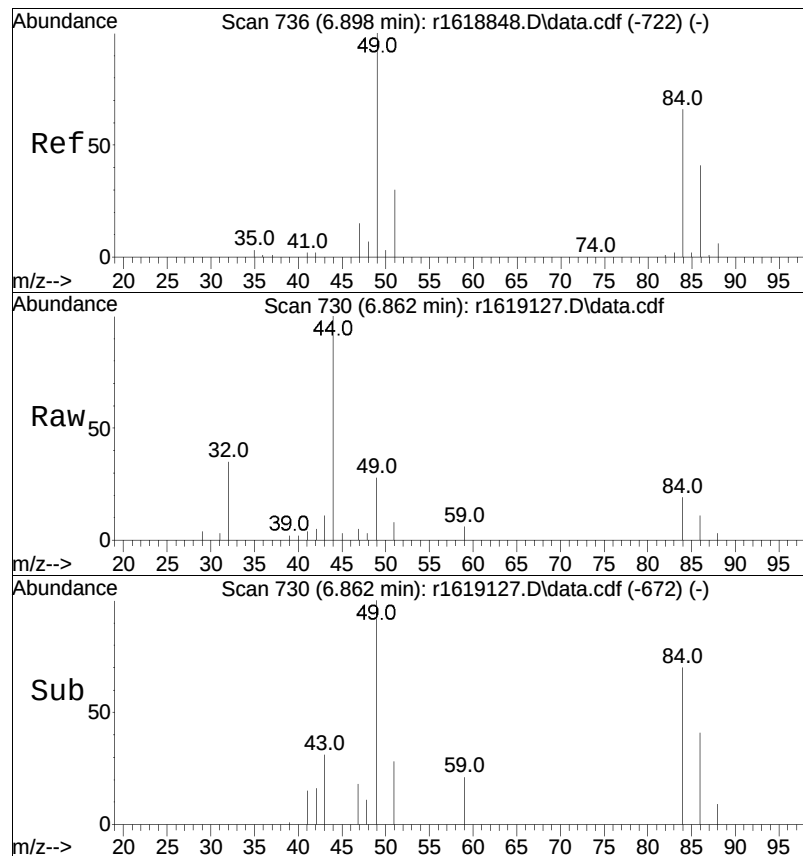




#27
 tertiary butyl alcohol
 Concen: 0.38 ppbV
 RT: 6.820 min Scan# 723
 Delta R.T. 0.036 min
 Lab File: r1619127.D
 Acq: 16 Sep 2020 9:30 PM

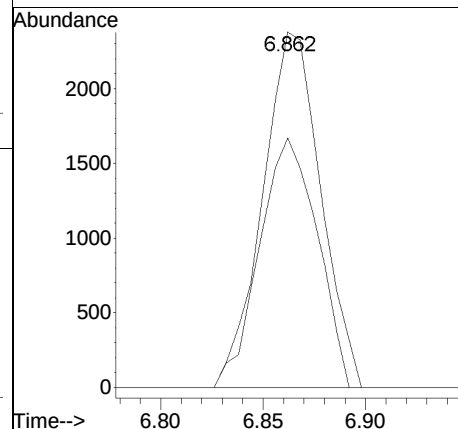
Tgt Ion:	59	Resp:	7681
Ion Ratio	Lower	Upper	
59	100		
41	33.4	22.4	33.6
43	18.9	10.2	15.2#

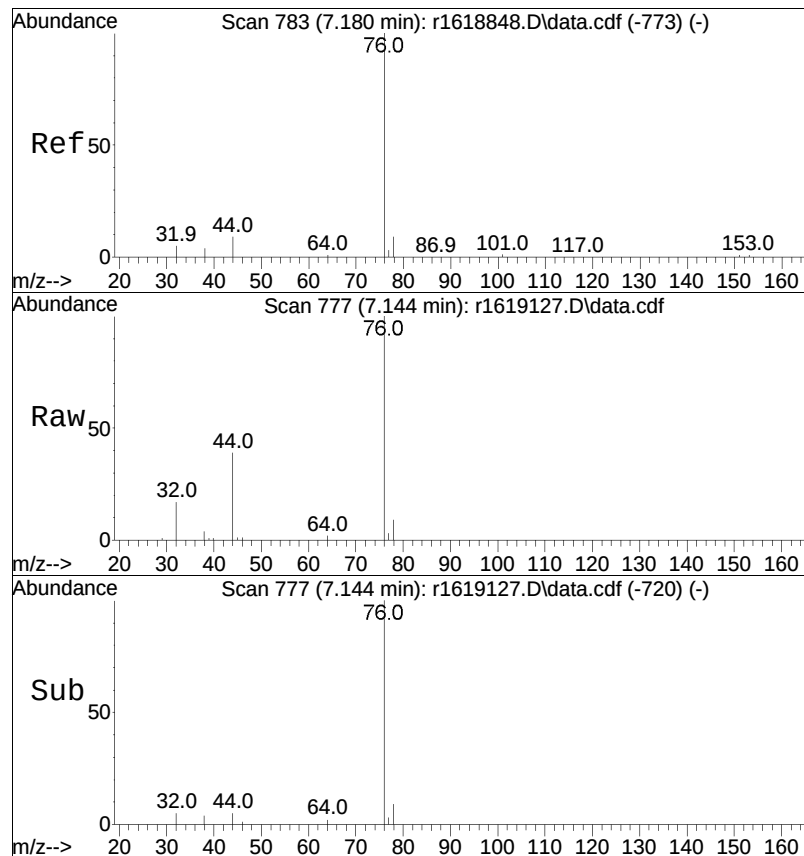




#28
 methylene chloride
 Concen: 0.27 ppbV
 RT: 6.862 min Scan# 730
 Delta R.T. 0.012 min
 Lab File: r1619127.D
 Acq: 16 Sep 2020 9:30 PM

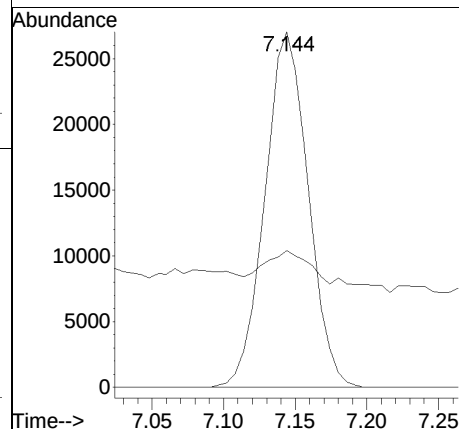
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	4703				
Ratio	100	70.2			
Lower		53.2			
Upper		79.8			

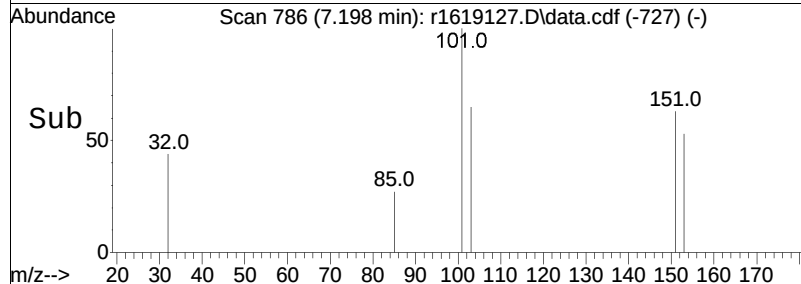
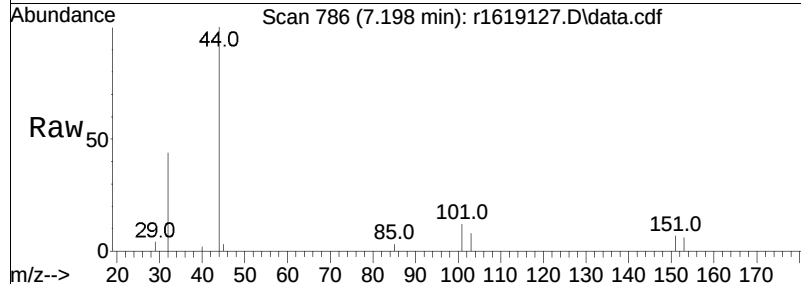
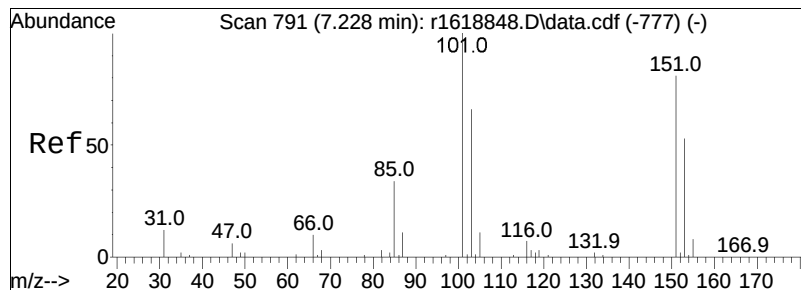




#30
 carbon disulfide
 Concen: 1.24 ppbV
 RT: 7.144 min Scan# 777
 Delta R.T. 0.012 min
 Lab File: r1619127.D
 Acq: 16 Sep 2020 9:30 PM

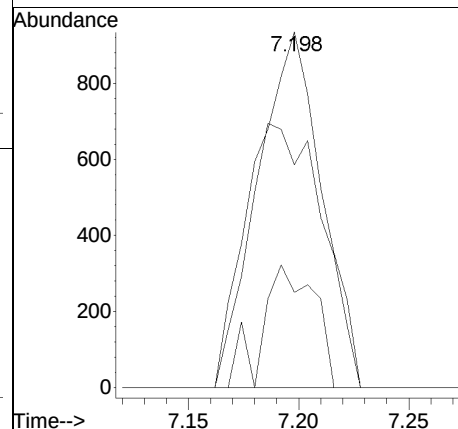
Tgt Ion	Ratio	Lower	Upper
76	100		
44	38.5	7.7	11.5#

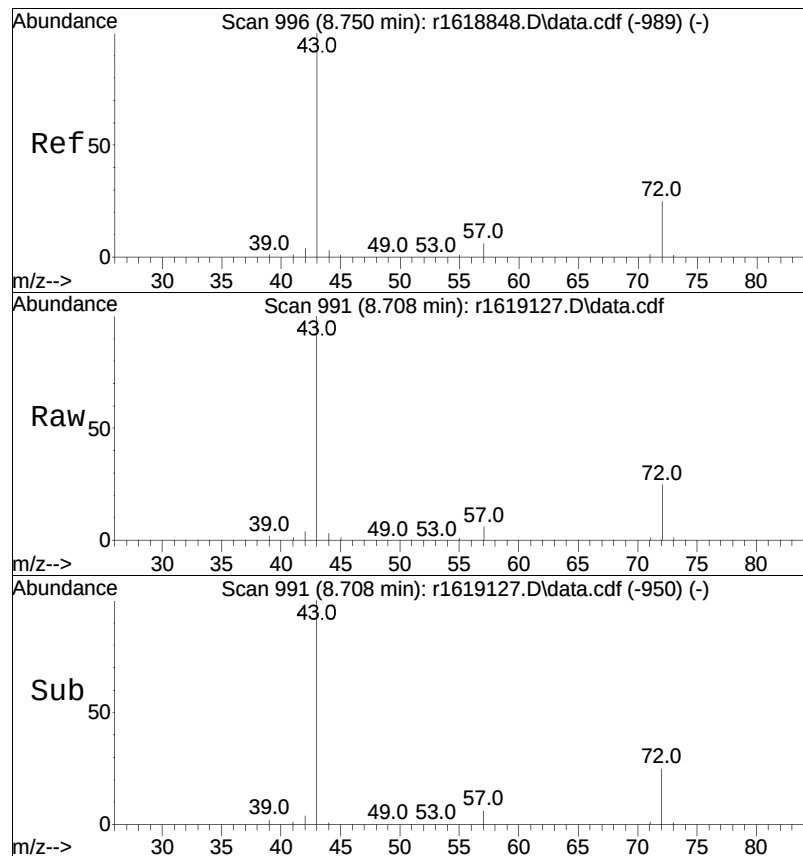




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 7.198 min Scan# 786
 Delta R.T. 0.024 min
 Lab File: r1619127.D
 Acq: 16 Sep 2020 9:30 PM

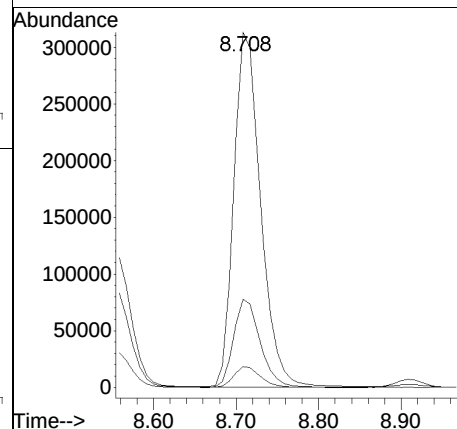
Tgt Ion:	101	Resp:	1983
Ion Ratio	Lower	Upper	
101	100		
85	26.7	27.5	41.3#
151	62.7	65.1	97.7#

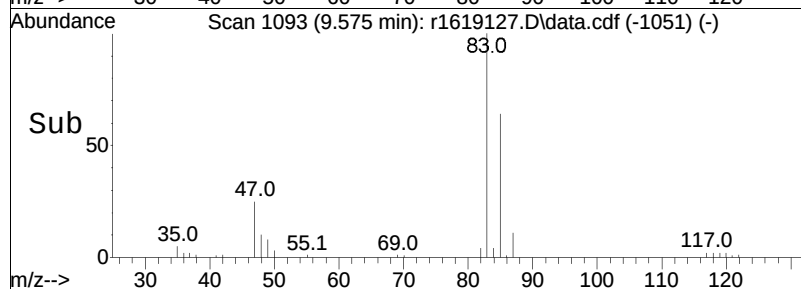
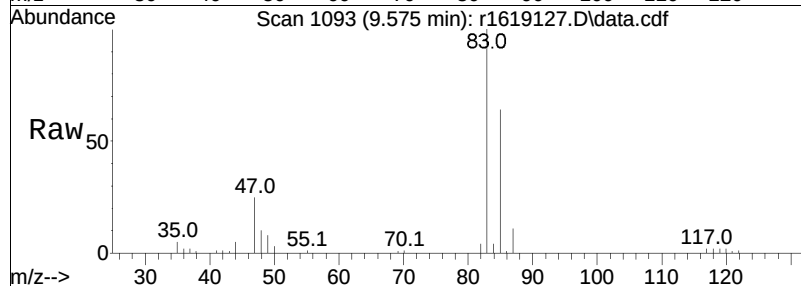
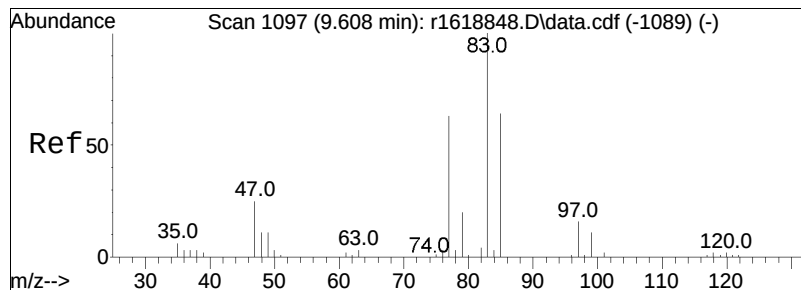




#36
 2-butanone
 Concen: 20.53 ppbV
 RT: 8.708 min Scan# 991
 Delta R.T. 0.008 min
 Lab File: r1619127.D
 Acq: 16 Sep 2020 9:30 PM

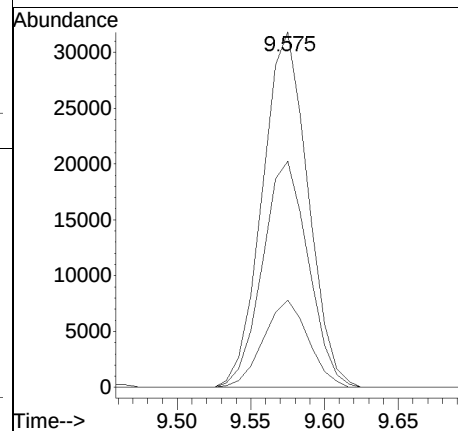
Tgt	Ion:	43	Resp:	704470
Ion	Ratio	Lower	Upper	
43	100			
72	24.8	19.8	29.6	
57	5.9	4.6	6.8	

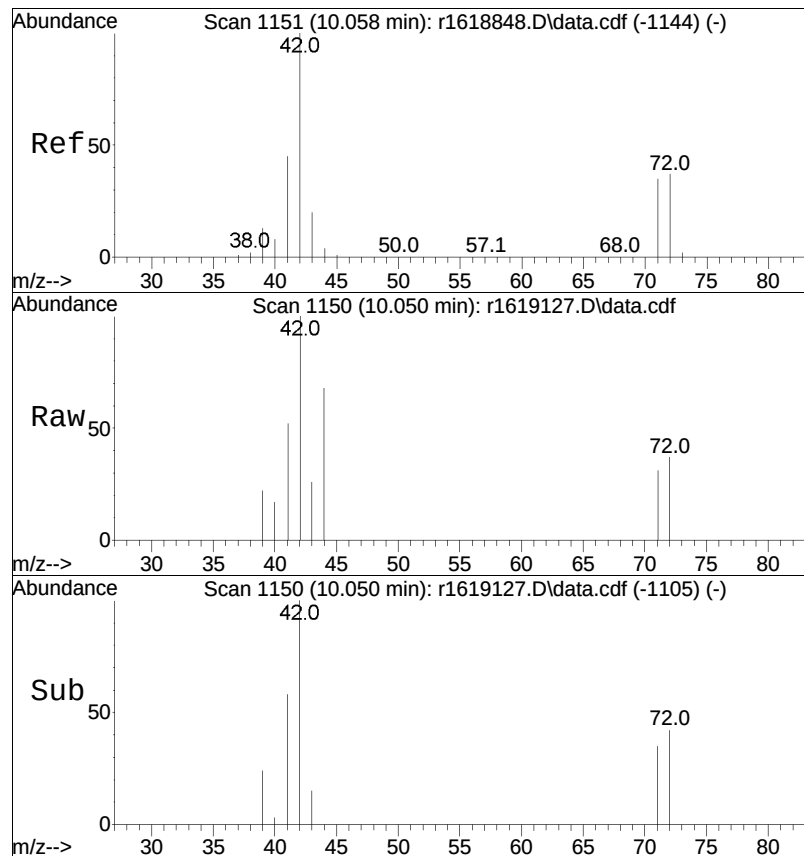




#39
chloroform
Concen: 2.82 ppbV
RT: 9.575 min Scan# 1093
Delta R.T. 0.017 min
Lab File: r1619127.D
Acq: 16 Sep 2020 9:30 PM

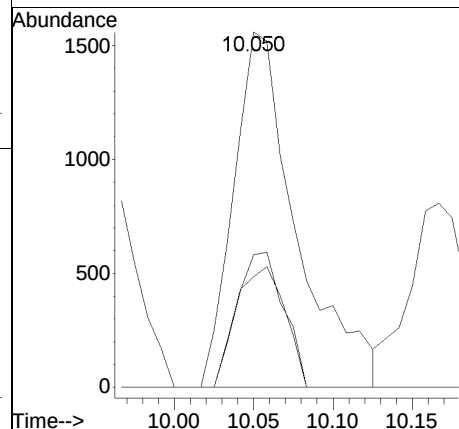
Tgt	Ion	Ratio	Resp	Lower	Upper
83	100		68445		
85	63.7	51.5		77.3	
47	24.6	20.1		30.1	

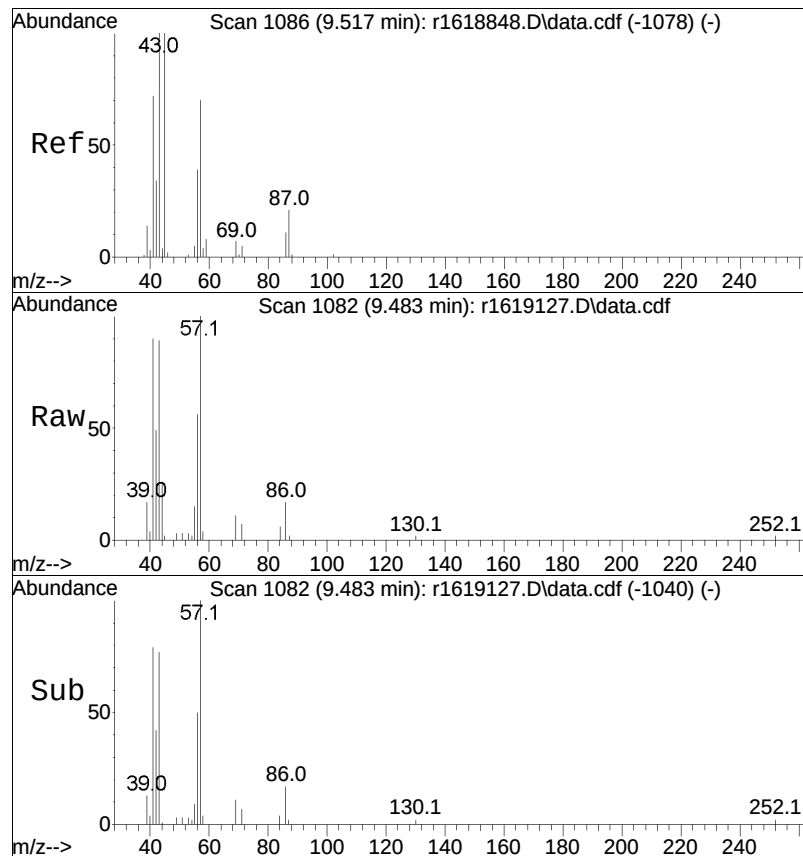




#40
 Tetrahydrofuran
 Concen: 0.18 ppbV
 RT: 10.050 min Scan# 1150
 Delta R.T. 0.042 min
 Lab File: r1619127.D
 Acq: 16 Sep 2020 9:30 PM

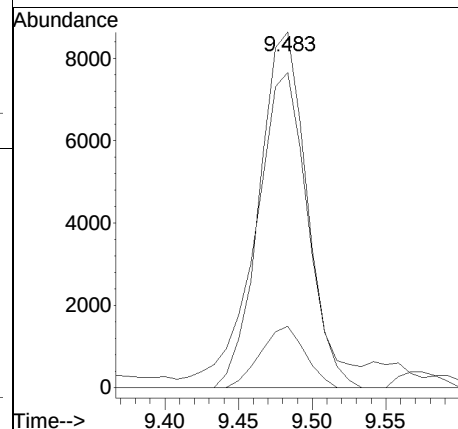
Tgt Ion:	42	Resp:	4324
Ion Ratio	Lower	Upper	
42	100		
71	31.1	28.2	42.2
72	37.3	29.9	44.9

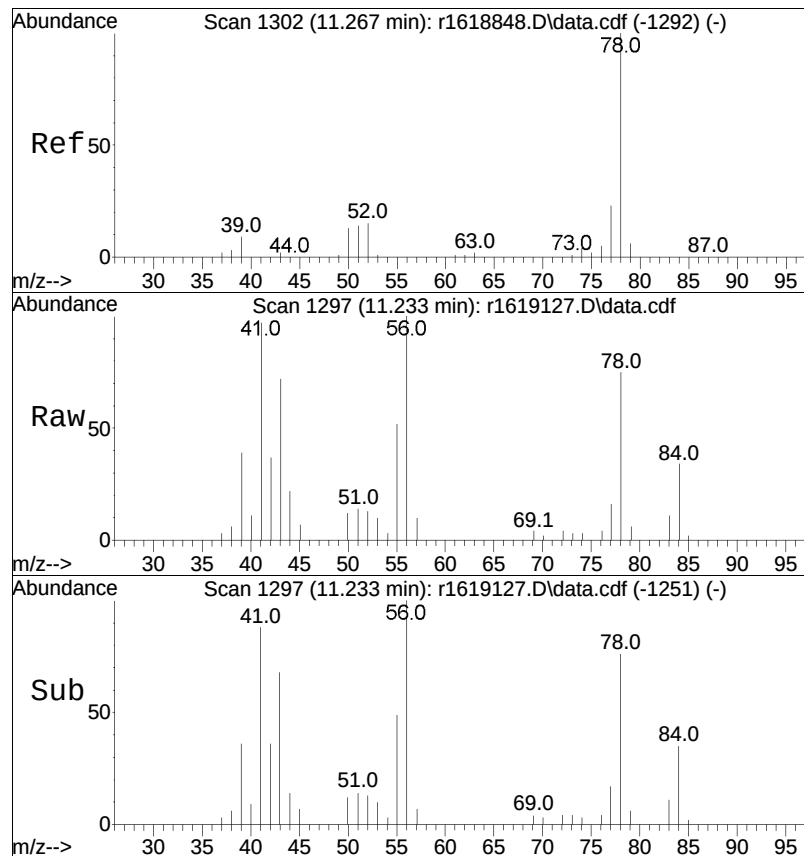




#44
hexane
Concen: 0.68 ppbV
RT: 9.483 min Scan# 1082
Delta R.T. 0.017 min
Lab File: r1619127.D
Acq: 16 Sep 2020 9:30 PM

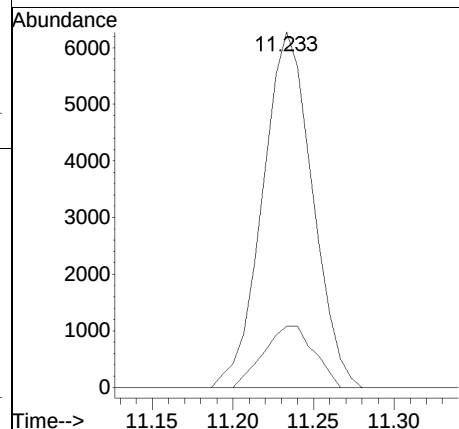
Tgt	Ion	Resp	Lower	Upper
57	100	19264		
43	88.6	114.4	171.6#	
86	17.2	12.6	18.8	

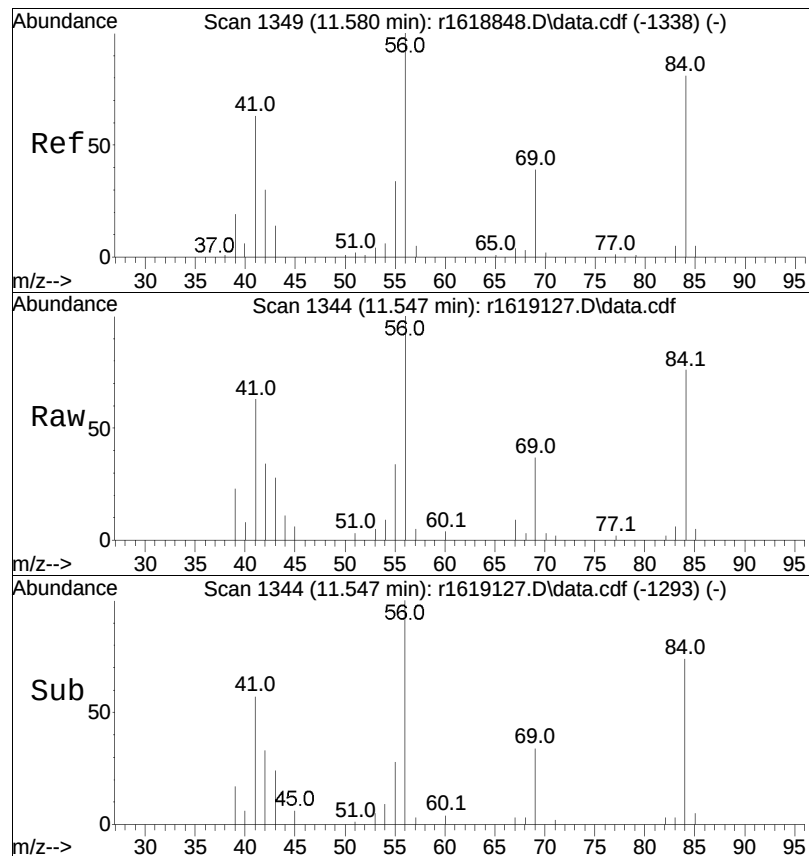




#50
benzene
Concen: 0.22 ppbV
RT: 11.233 min Scan# 1297
Delta R.T. 0.013 min
Lab File: r1619127.D
Acq: 16 Sep 2020 9:30 PM

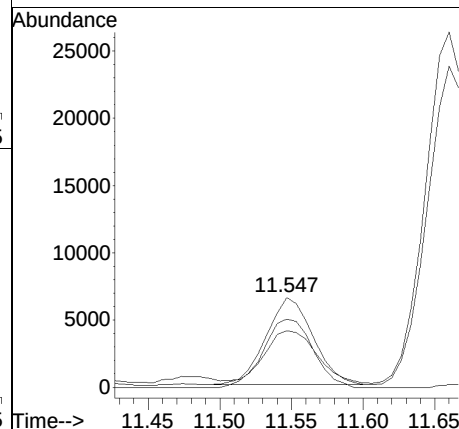
Tgt Ion	Ratio	Lower	Upper
78	100		
52	17.2	11.8	17.6

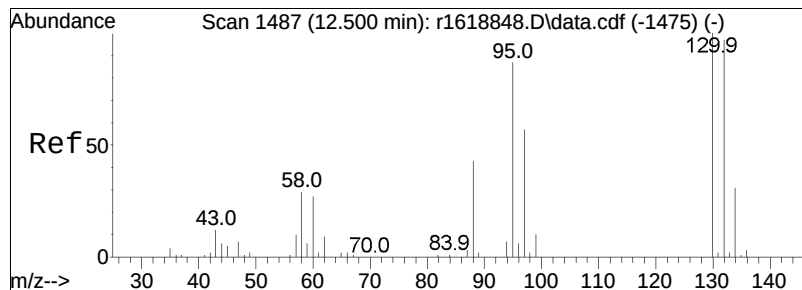




#53
cyclohexane
Concen: 0.49 ppbV
RT: 11.547 min Scan# 1344
Delta R.T. 0.013 min
Lab File: r1619127.D
Acq: 16 Sep 2020 9:30 PM

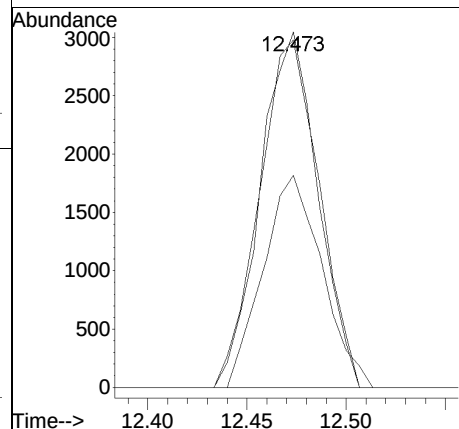
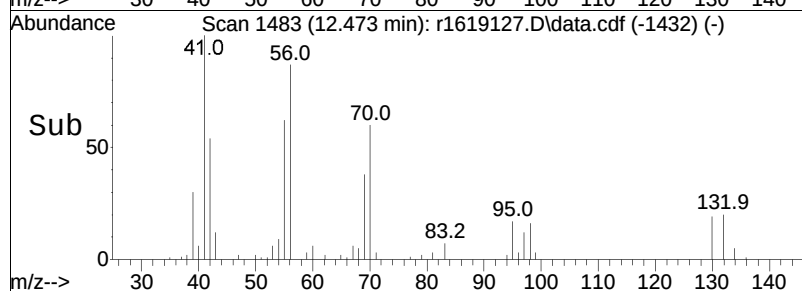
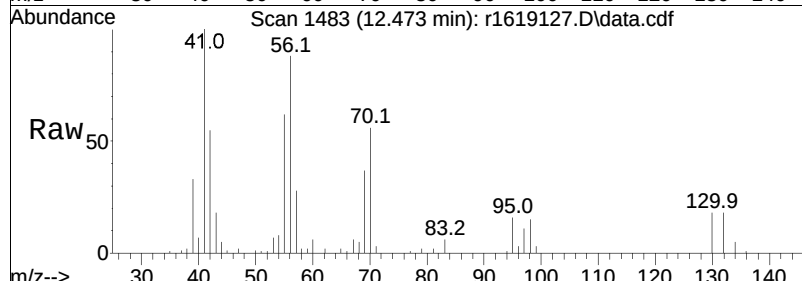
Tgt	Ion: 56	Resp:	14896
Ion	Ratio	Lower	Upper
56	100		
84	76.1	64.6	96.8
41	63.1	50.5	75.7

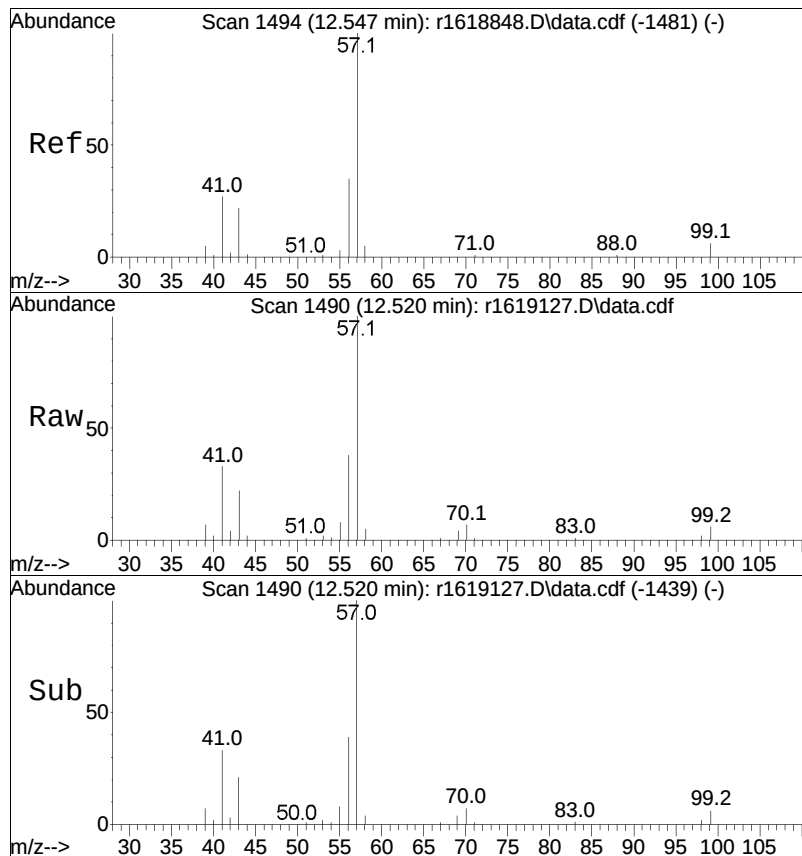




#59
trichloroethene
Concen: 0.24 ppbV
RT: 12.473 min Scan# 1483
Delta R.T. 0.013 min
Lab File: r1619127.D
Acq: 16 Sep 2020 9:30 PM

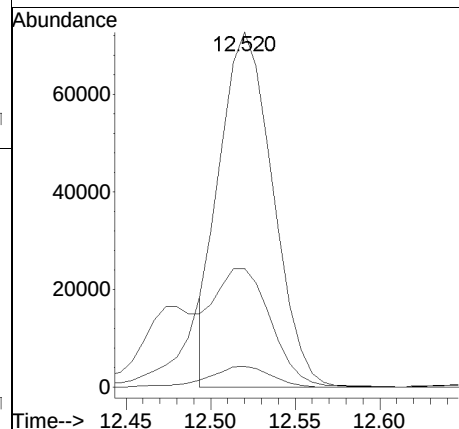
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	6265		
132	102.2		77.4	116.2
97	61.0		45.5	68.3

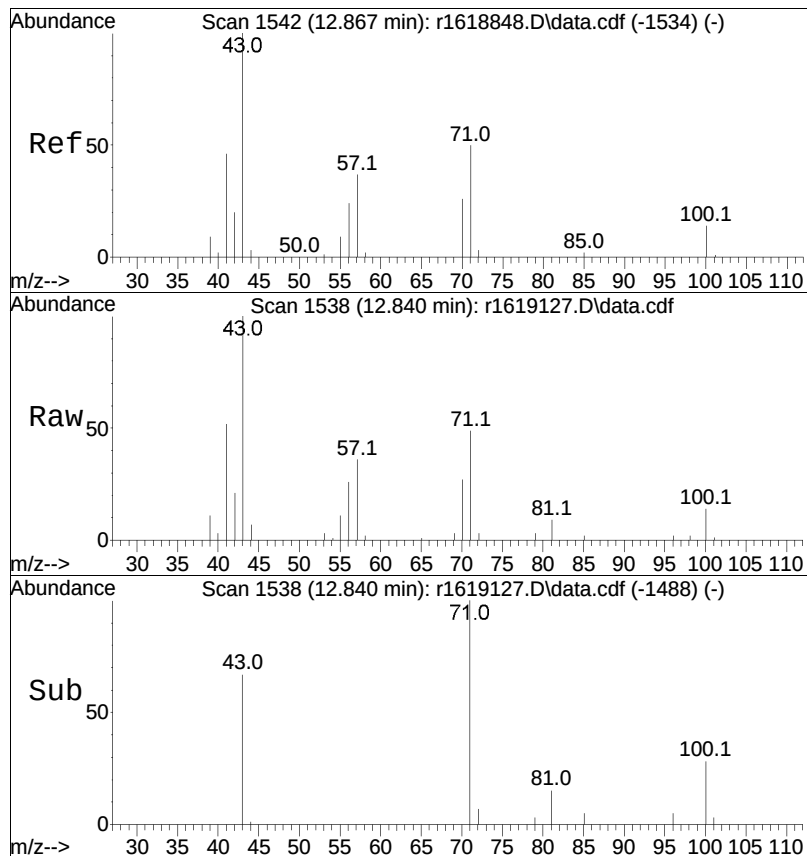




#60
 2,2,4-trimethylpentane
 Concen: 1.65 ppbV m
 RT: 12.520 min Scan# 1490
 Delta R.T. 0.013 min
 Lab File: r1619127.D
 Acq: 16 Sep 2020 9:30 PM

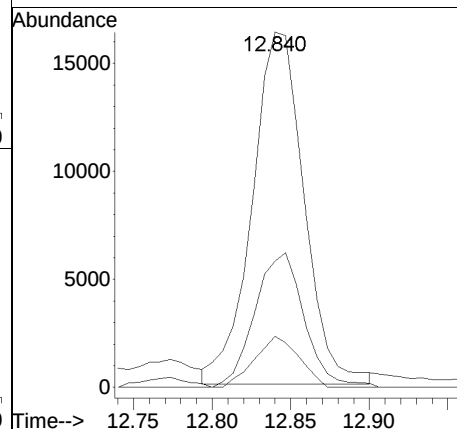
Tgt	Ion: 57	Resp:	159400
Ion	Ratio	Lower	Upper
57	100		
99	5.9	4.9	7.3
41	33.5	21.9	32.9#

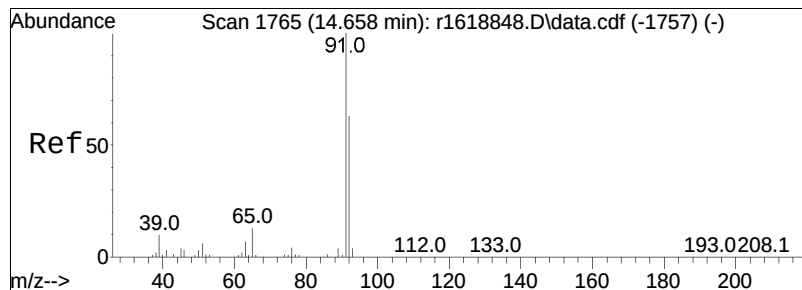




#62
heptane
Concen: 0.78 ppbV m
RT: 12.840 min Scan# 1538
Delta R.T. 0.007 min
Lab File: r1619127.D
Acq: 16 Sep 2020 9:30 PM

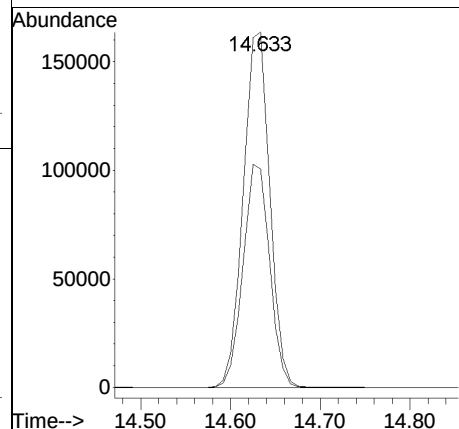
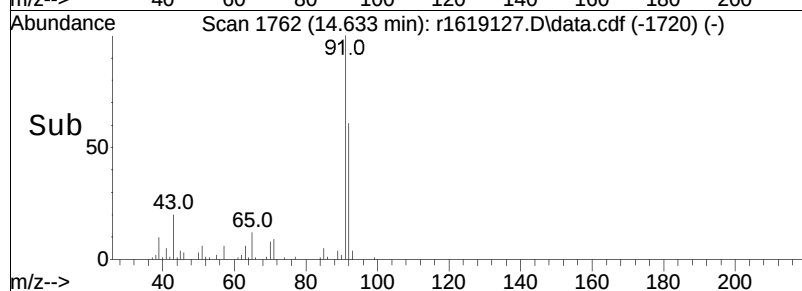
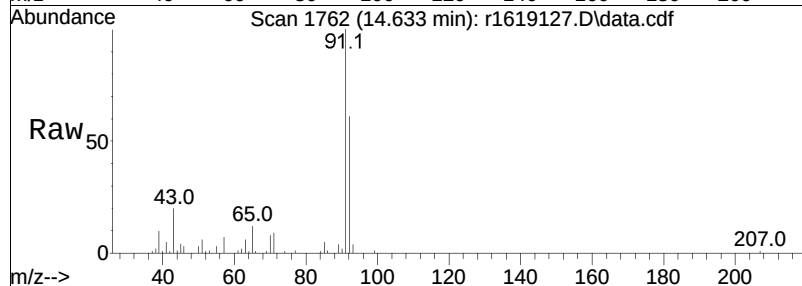
Tgt	Ion	Ratio	Lower	Upper
43	100			
57	35.5	29.9	44.9	
100	14.4	11.5	17.3	

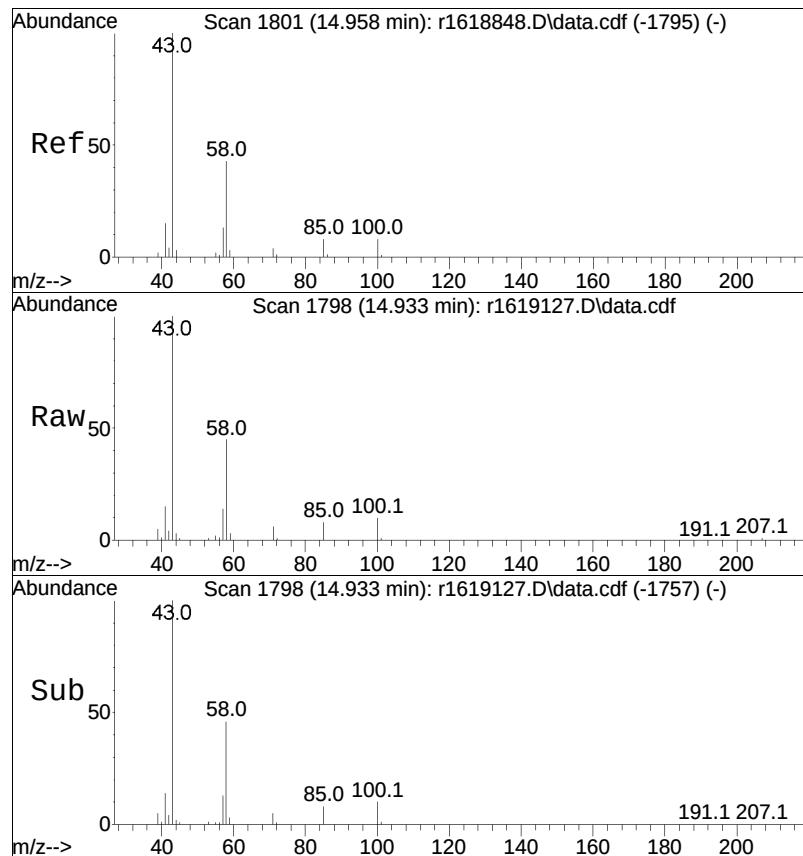




#68
toluene
Concen: 4.85 ppbV
RT: 14.633 min Scan# 1762
Delta R.T. 0.017 min
Lab File: r1619127.D
Acq: 16 Sep 2020 9:30 PM

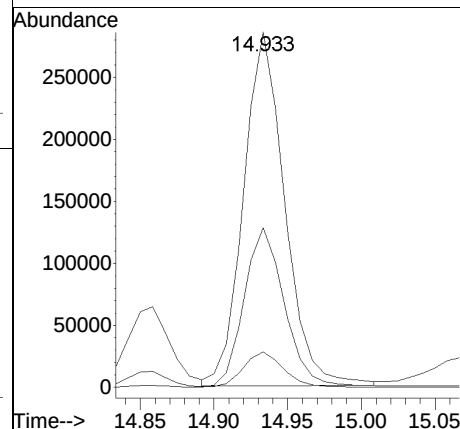
Tgt	Ion	Resp	Lower	Upper
91	100	336966		
92	61.5	50.6	75.8	

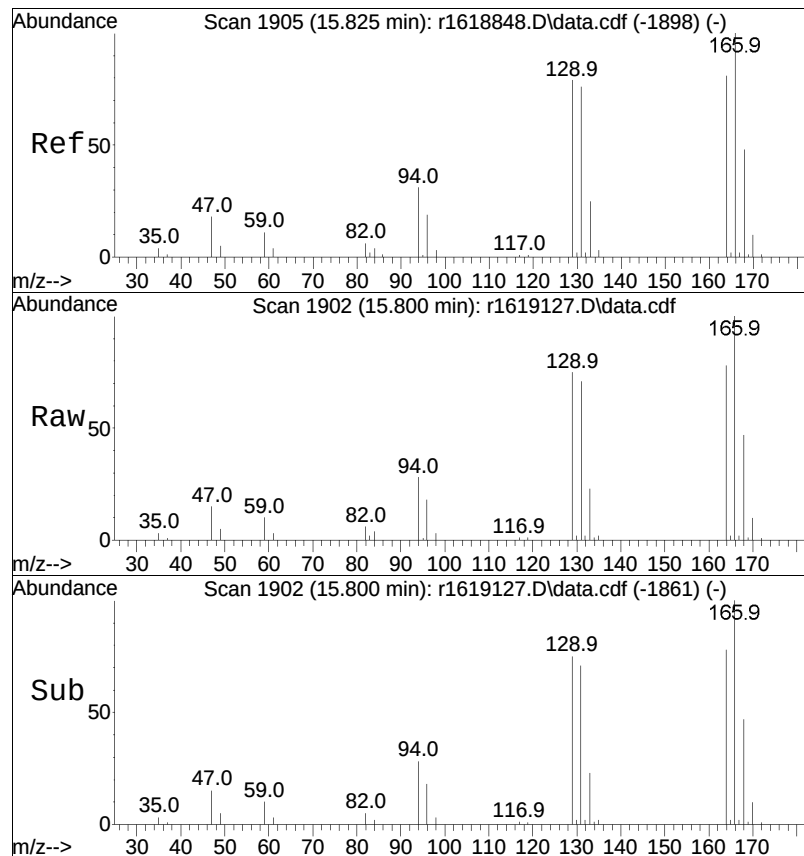




#72
 2-hexanone
 Concen: 11.31 ppbV
 RT: 14.933 min Scan# 1798
 Delta R.T. 0.008 min
 Lab File: r1619127.D
 Acq: 16 Sep 2020 9:30 PM

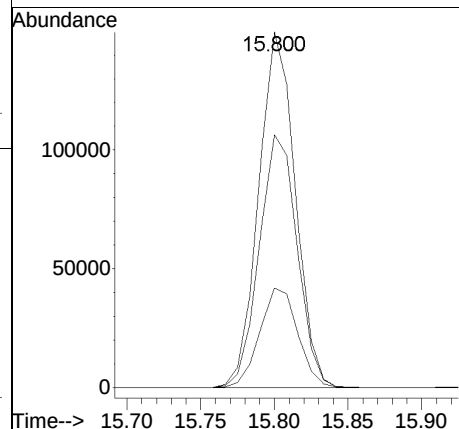
Tgt	Ion	Ratio	Lower	Upper
43	100			
58	45.0	35.8	53.8	
100	10.0	8.0	12.0	

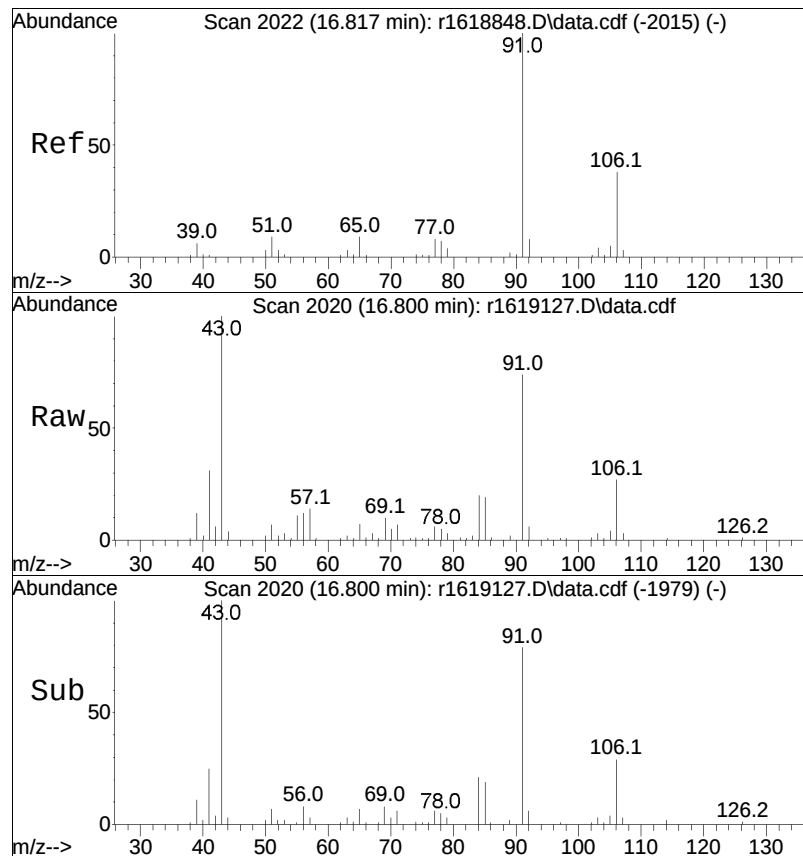




#78
 tetrachloroethene
 Concen: 8.59 ppbV
 RT: 15.800 min Scan# 1902
 Delta R.T. 0.008 min
 Lab File: r1619127.D
 Acq: 16 Sep 2020 9:30 PM

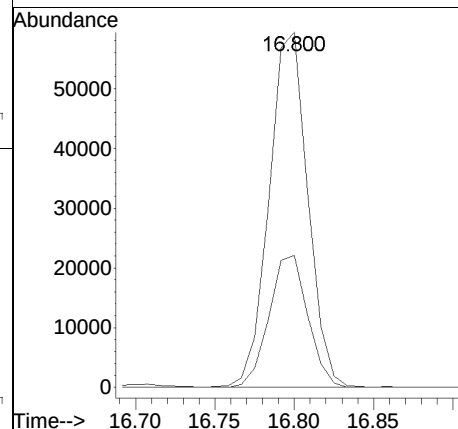
Tgt Ion	Ratio	Lower	Upper
166	100		
131	71.1	61.0	91.6
94	28.0	24.6	37.0

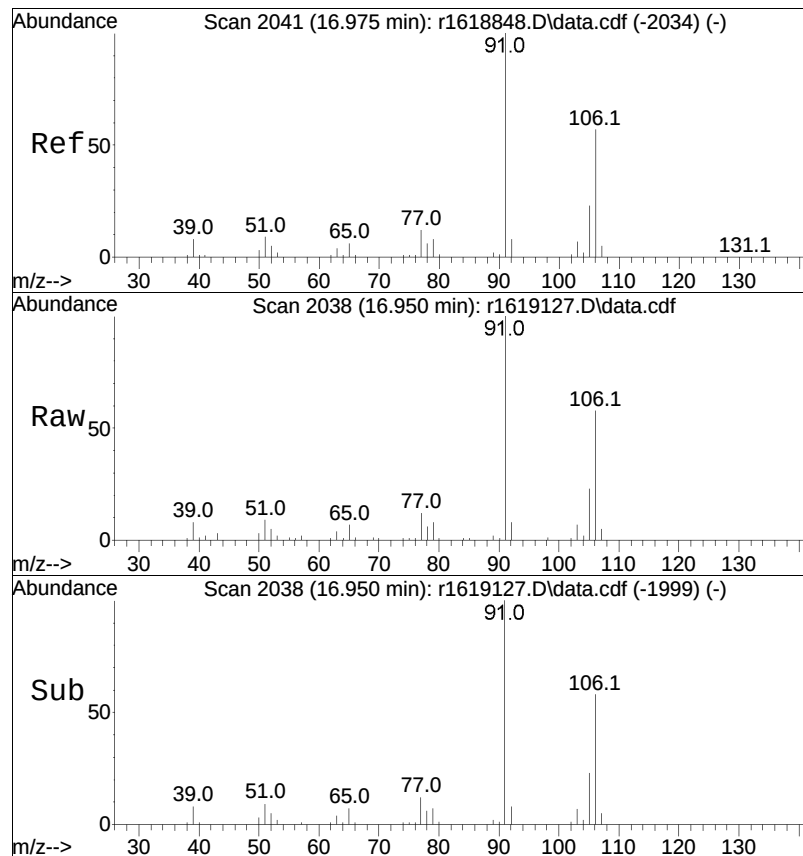




#81
ethylbenzene
Concen: 1.14 ppbV
RT: 16.800 min Scan# 2020
Delta R.T. 0.008 min
Lab File: r1619127.D
Acq: 16 Sep 2020 9:30 PM

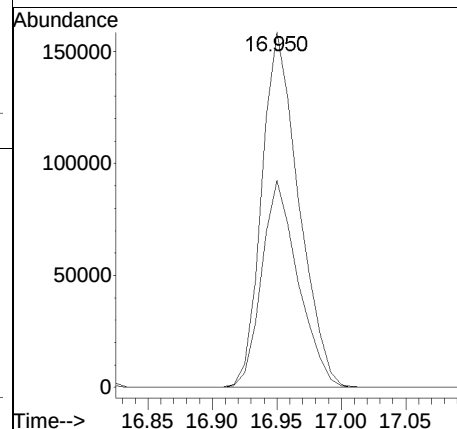
Tgt	Ion	Resp	Lower	Upper
91	100	100729		
106	37.1	30.3	45.5	

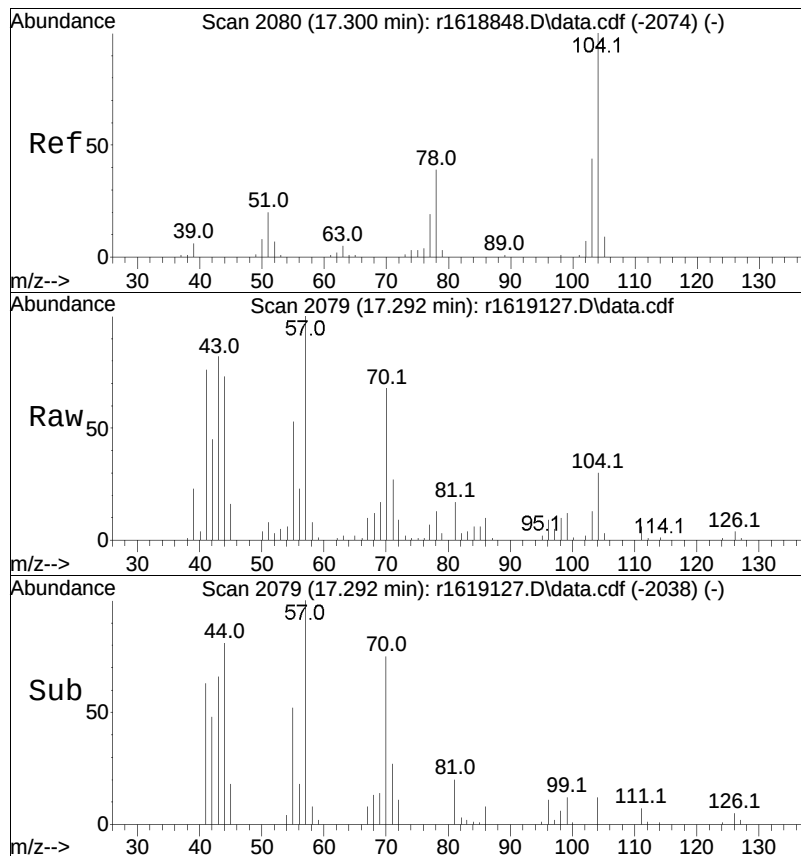




#83
 m+p-xylene
 Concen: 4.47 ppbV
 RT: 16.950 min Scan# 2038
 Delta R.T. -0.008 min
 Lab File: r1619127.D
 Acq: 16 Sep 2020 9:30 PM

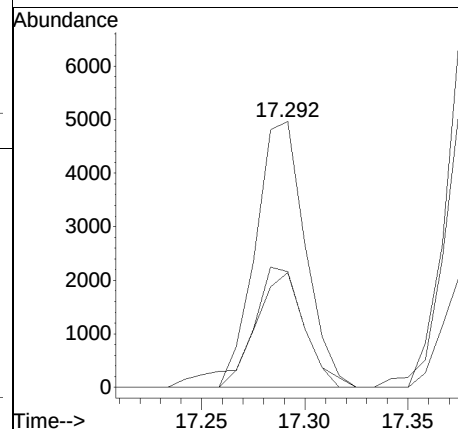
Tgt	Ion	Resp	Lower	Upper
91	100	317756		
106	58.2	45.2	67.8	

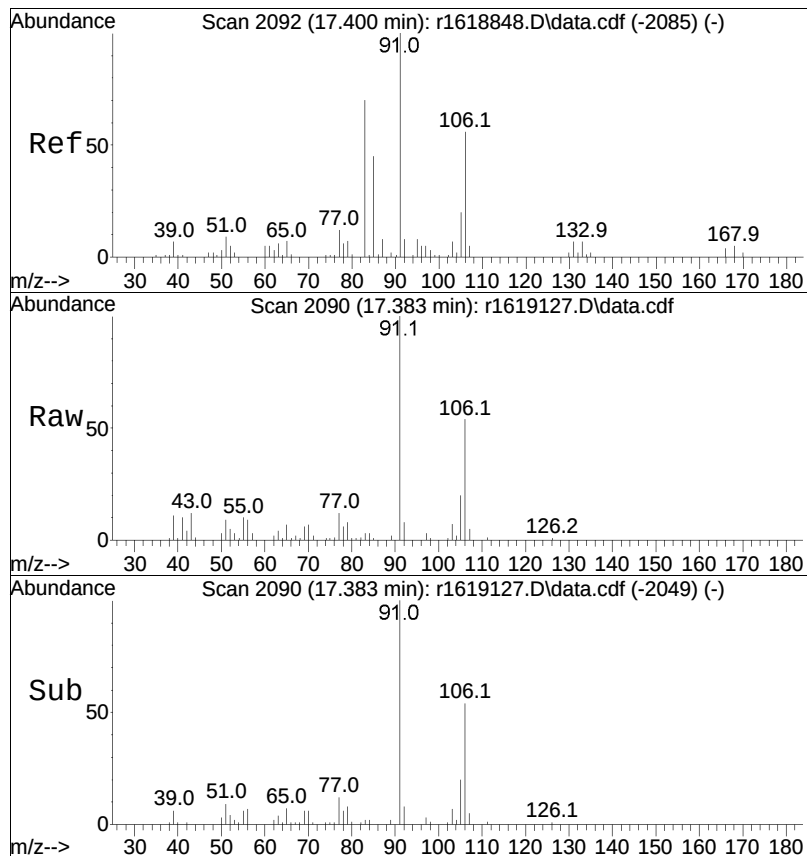




#85
styrene
Concen: 0.14 ppbV
RT: 17.292 min Scan# 2079
Delta R.T. 0.008 min
Lab File: r1619127.D
Acq: 16 Sep 2020 9:30 PM

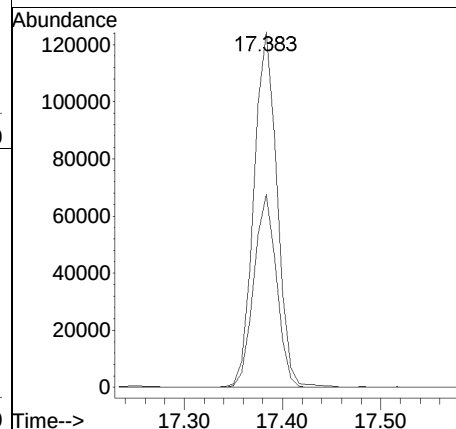
Tgt	Ion:104	Resp:	8348
Ion	Ratio	Lower	Upper
104	100		
103	43.5	35.3	52.9
78	43.1	31.5	47.3

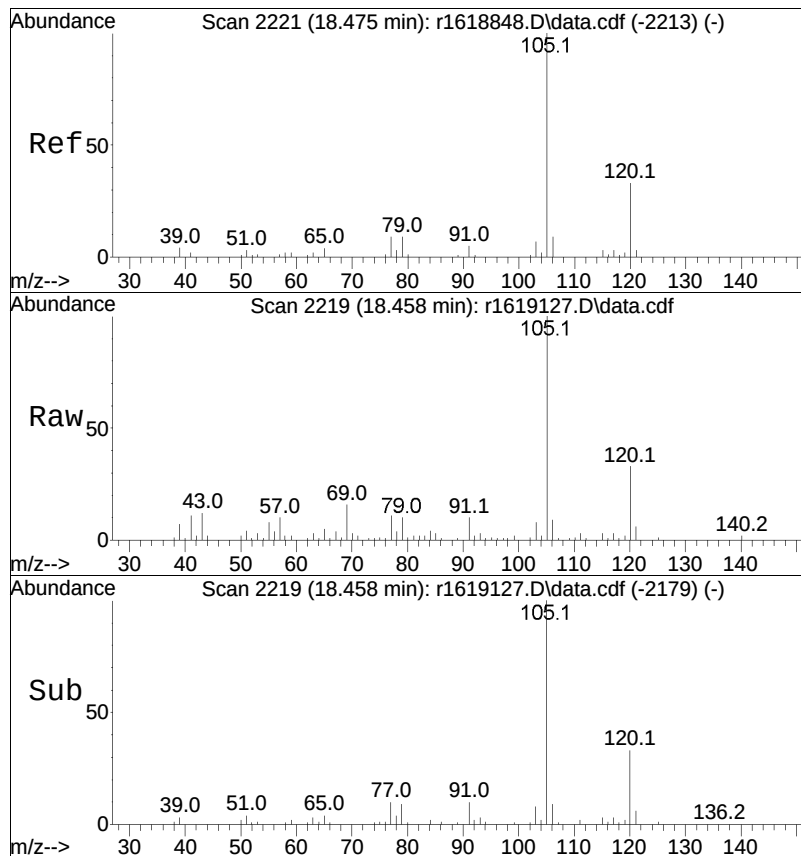




#87
 o-xylene
 Concen: 2.86 ppbV
 RT: 17.383 min Scan# 2090
 Delta R.T. 0.008 min
 Lab File: r1619127.D
 Acq: 16 Sep 2020 9:30 PM

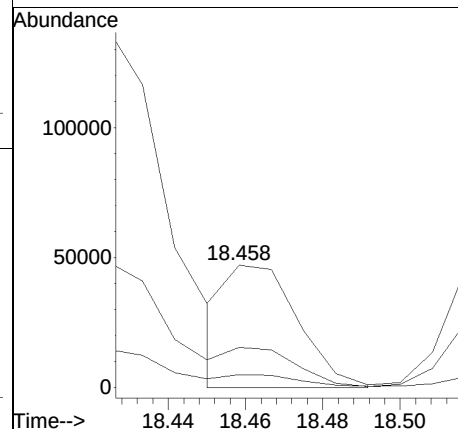
Tgt Ion:	91	Resp:	204585
Ion Ratio	Lower	Upper	
91	100		
106	54.3	44.6	66.8

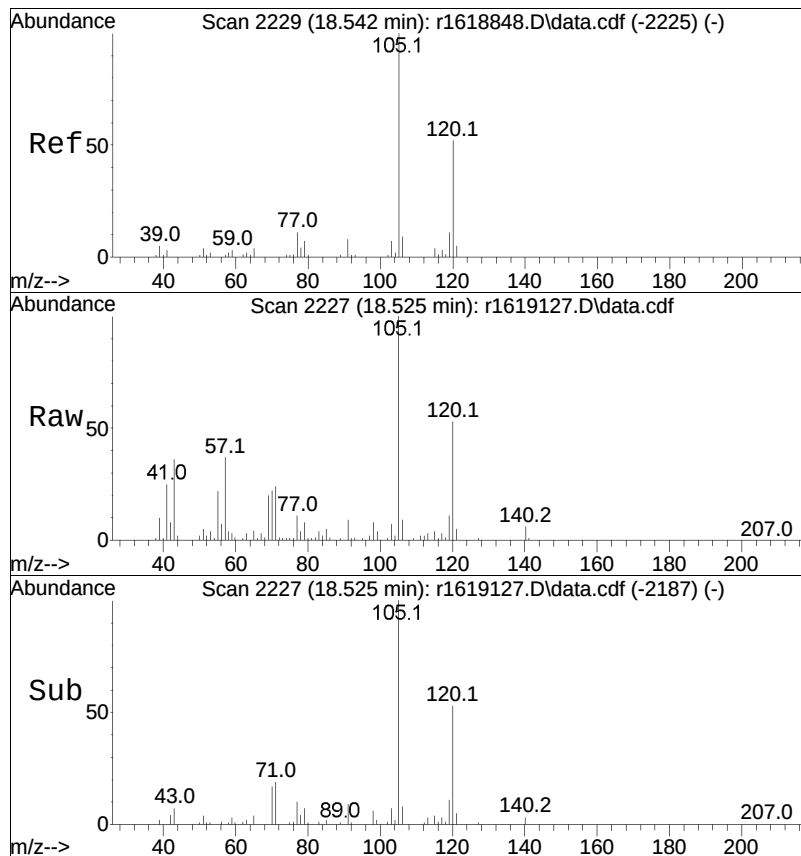




#96
 4-ethyl toluene
 Concen: 0.57 ppbV m
 RT: 18.458 min Scan# 2219
 Delta R.T. 0.000 min
 Lab File: r1619127.D
 Acq: 16 Sep 2020 9:30 PM

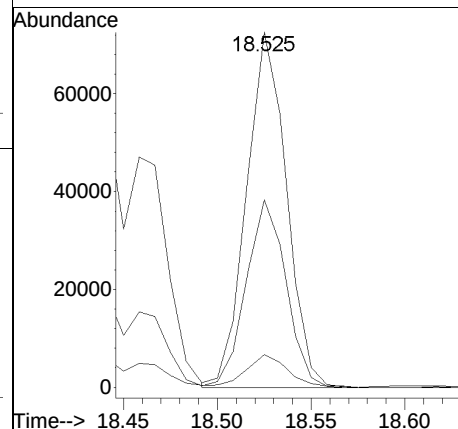
Tgt Ion:	105	Resp:	60288
Ion Ratio	Lower	Upper	
105	100		
120	32.8	26.4	39.6
91	10.5	7.2	10.8

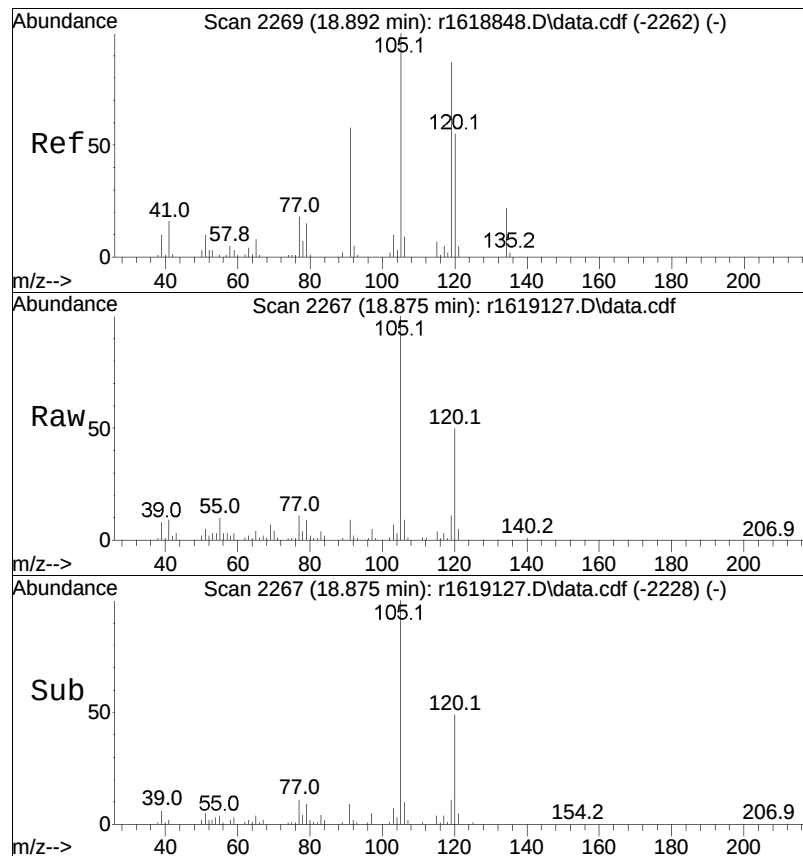




#97
 1,3,5-trimethylbenzene
 Concen: 1.19 ppbV
 RT: 18.525 min Scan# 2227
 Delta R.T. 0.000 min
 Lab File: r1619127.D
 Acq: 16 Sep 2020 9:30 PM

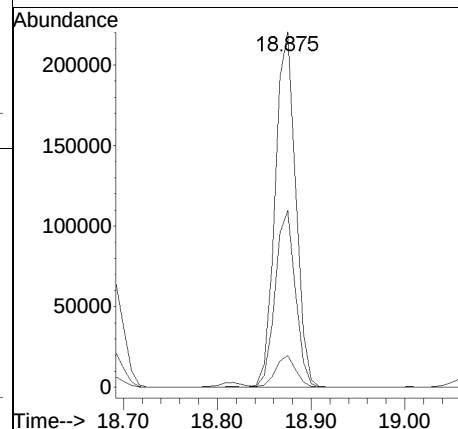
Tgt	Ion:105	Resp:	107337
Ion	Ratio	Lower	Upper
105	100		
120	52.8	41.2	61.8
91	9.2	6.7	10.1





#99
 1,2,4-trimethylbenzene
 Concen: 3.96 ppbV
 RT: 18.875 min Scan# 2267
 Delta R.T. 0.008 min
 Lab File: r1619127.D
 Acq: 16 Sep 2020 9:30 PM

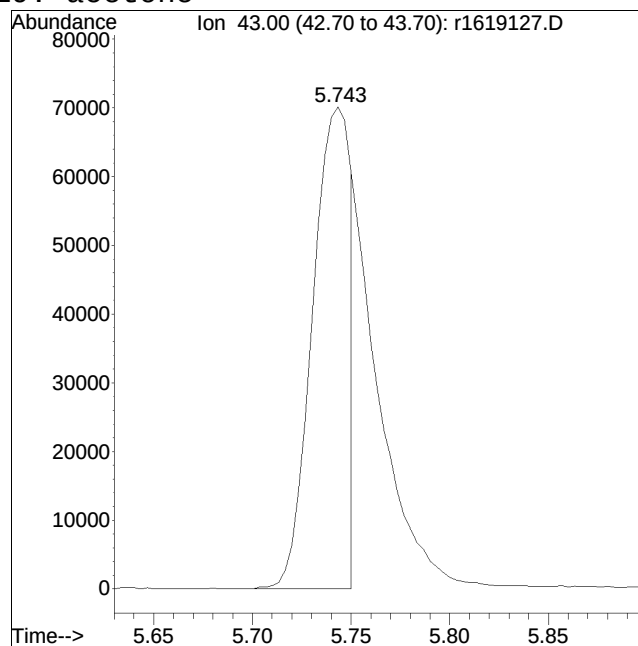
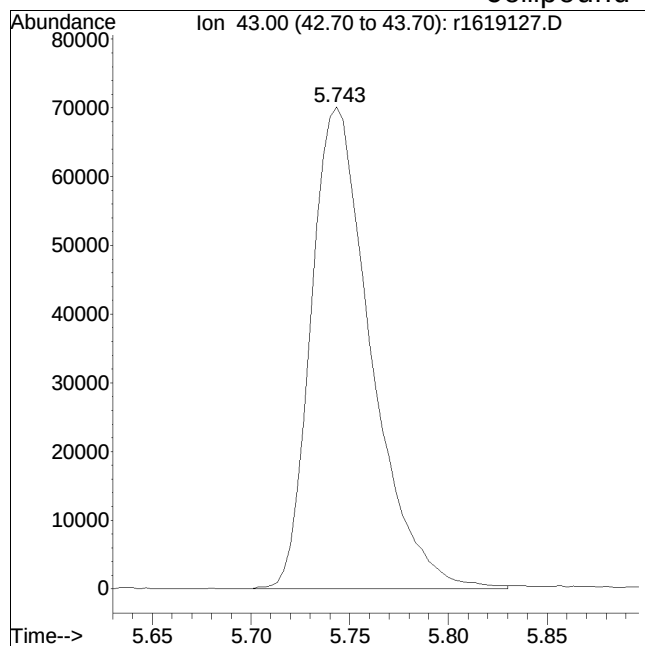
Tgt	Ion:105	Resp:	336424
Ion	Ratio	Lower	Upper
105	100		
120	49.8	44.0	66.0
91	9.0	46.2	69.4#



Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619127.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:9: 0 Instrument :
Sample : L2037647-02,3,250,250 Quant Date : 9/17/2020 5:40 am

Compound #19: acetone



Original Peak Response = 148367

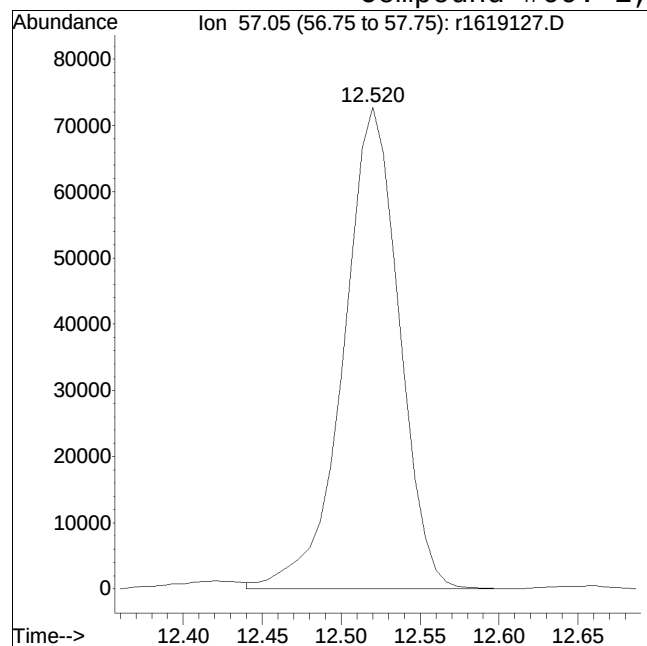
Manual Peak Response = 94372 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

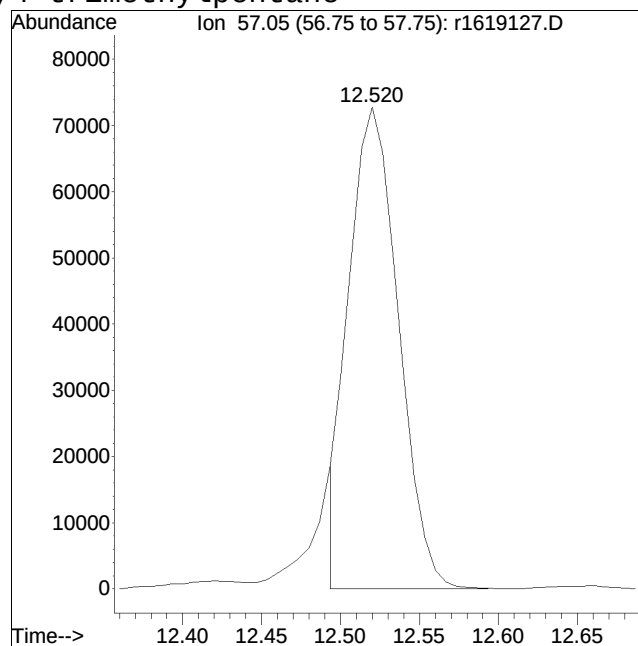
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619127.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:9: 0 Instrument :
Sample : L2037647-02,3,250,250 Quant Date : 9/17/2020 5:40 am

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 178437

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

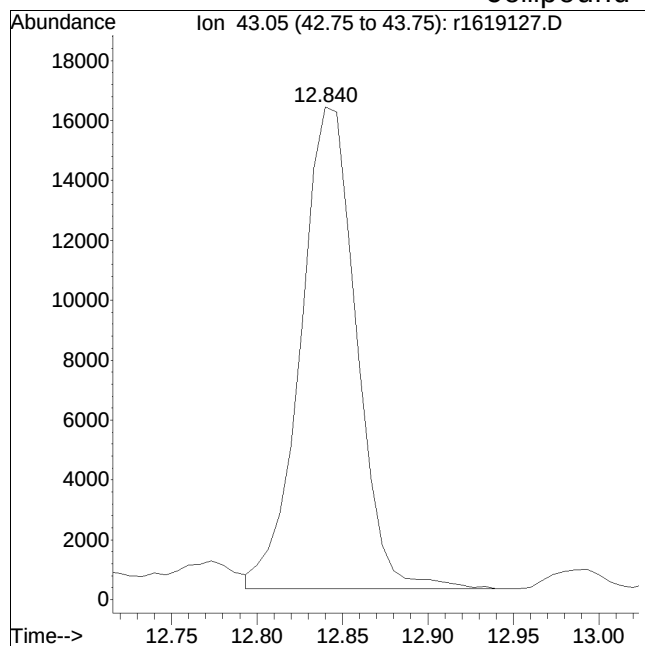


Manual Peak Response = 159400 M6

Manual Integration Report

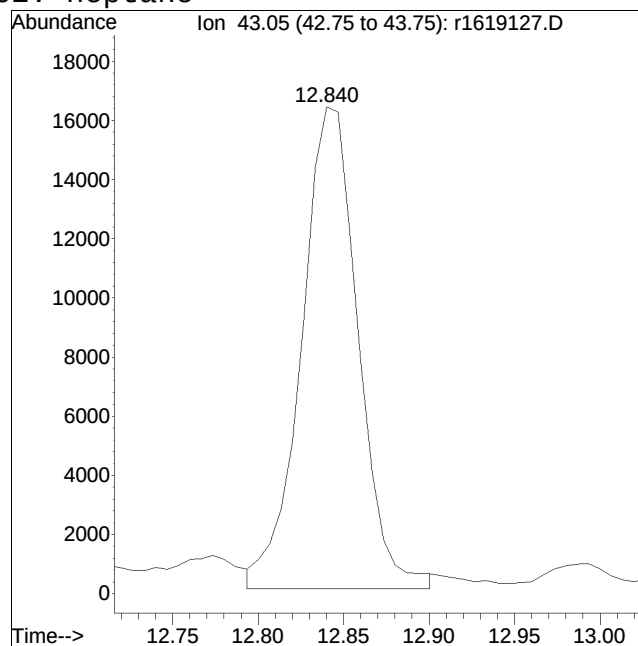
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619127.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:9: 0 Instrument :
Sample : L2037647-02,3,250,250 Quant Date : 9/17/2020 5:40 am

Compound #62: heptane



Original Peak Response = 36541

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

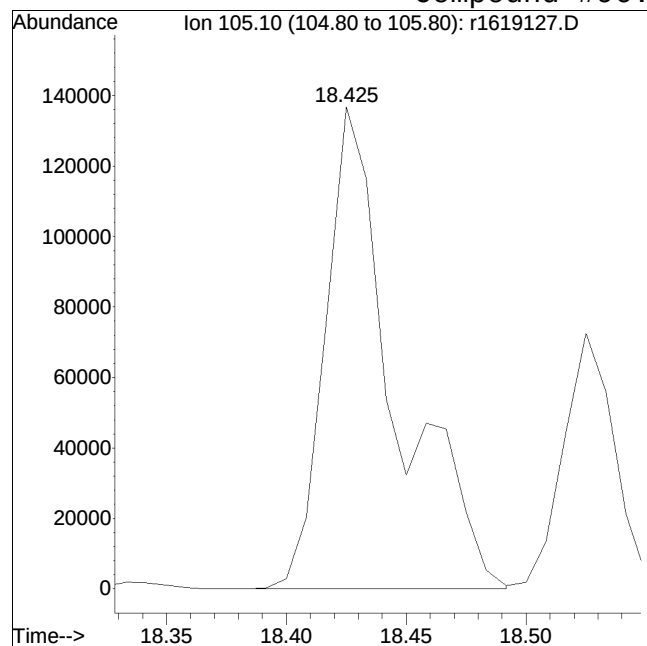


Manual Peak Response = 37507 M6

Manual Integration Report

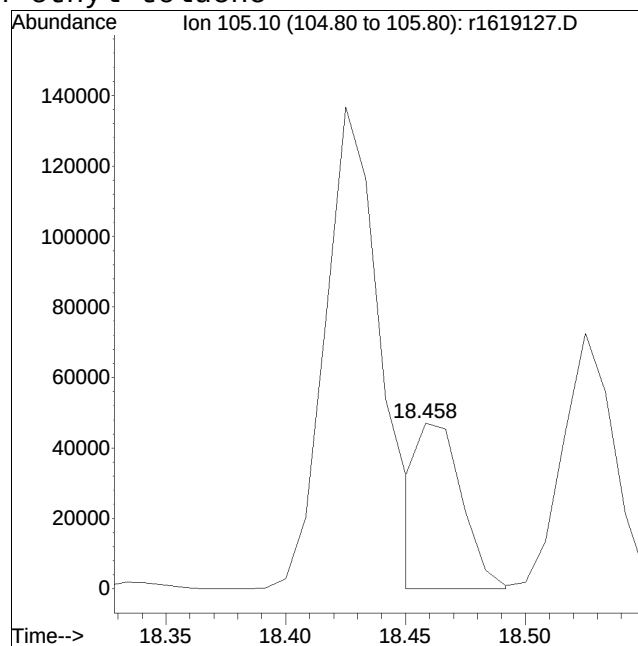
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619127.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:9: 0 Instrument :
Sample : L2037647-02,3,250,250 Quant Date : 9/17/2020 5:40 am

Compound #96: 4-ethyl toluene



Original Peak Response = 279778

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 60288 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619128.D
 Acq On : 16 Sep 2020 10:10 PM
 Operator : AIRLAB16:TS
 Sample : L2037647-03,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:02:40 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.408	49	236805	10.000	ppbV	0.02
Standard Area = 289019			Recovery =		81.93%	
43) 1,4-difluorobenzene	11.680	114	803455	10.000	ppbV	0.01
Standard Area = 862875			Recovery =		93.11%	
67) chlorobenzene-D5	16.408	54	107431	10.000	ppbV	0.00
Standard Area = 122360			Recovery =		87.80%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.874	85	26052	1.161	ppbV	97
6) chloromethane	0.000		0	N.D.	d	
7) Freon-114	0.000		0	N.D.	d	
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.468	54	3815	0.341	ppbV	93
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.188	31	18403	2.167	ppbV	90
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.750	43	47297M6	2.302	ppbV	
21) trichlorofluoromethane	5.930	101	34777	1.910	ppbV	96
22) isopropyl alcohol	6.093	45	9505	0.366	ppbV #	90
26) 1,1-dichloroethene	6.634		0	N.D.		
27) tertiary butyl alcohol	6.826	59	8293	0.438	ppbV #	86
28) methylene chloride	6.862	49	1033	0.062	ppbV	89
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	7.144	76	94577	2.183	ppbV #	50
31) Freon 113	7.192	101	2289	0.091	ppbV	96
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.350		0	N.D.		
36) 2-butanone	8.717	43	421282	13.008	ppbV	100
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.575	83	38571	1.684	ppbV	99
40) Tetrahydrofuran	10.058	42	5112M6	0.223	ppbV	
42) 1,2-dichloroethane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619128.D
 Acq On : 16 Sep 2020 10:10 PM
 Operator : AIRLAB16:TS
 Sample : L2037647-03,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:02:40 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
44) hexane	9.483	57	31863	1.164	ppbV	#	54
48) 1,1,1-trichloroethane	10.708		0	N.D.			
50) benzene	11.233	78	22542	0.381	ppbV		99
52) carbon tetrachloride	11.413		0	N.D.			
53) cyclohexane	11.547	56	13687	0.462	ppbV		98
56) 1,2-dichloropropane	12.053		0	N.D.			
57) bromodichloromethane	0.000		0	N.D.	d		
58) 1,4-dioxane	12.507		0	N.D.			
59) trichloroethene	12.473	130	6080	0.239	ppbV		98
60) 2,2,4-trimethylpentane	12.520	57	130302M6	1.391	ppbV		
62) heptane	12.840	43	43998M6	0.943	ppbV		
63) cis-1,3-dichloropropene	0.000		0	N.D.			
64) 4-methyl-2-pentanone	0.000		0	N.D.	d		
65) trans-1,3-dichloropropene	0.000		0	N.D.			
66) 1,1,2-trichloroethane	14.350		0	N.D.			
68) toluene	14.633	91	268731	4.037	ppbV		100
72) 2-hexanone	14.933	43	335369	7.131	ppbV		98
74) dibromochloromethane	0.000		0	N.D.			
75) 1,2-dibromoethane	0.000		0	N.D.			
78) tetrachloroethene	15.800	166	225210	7.833	ppbV		93
80) chlorobenzene	0.000		0	N.D.	d		
81) ethylbenzene	16.800	91	89975	1.067	ppbV		98
83) m+p-xylene	16.950	91	271251	3.989	ppbV		97
84) bromoform	0.000		0	N.D.			
85) styrene	17.292	104	18903	0.330	ppbV		99
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	d		
87) o-xylene	17.383	91	176097	2.575	ppbV		98
96) 4-ethyl toluene	0.000		0	N.D.	d		
97) 1,3,5-trimethylbenzene	18.525	105	102622	1.186	ppbV		99
99) 1,2,4-trimethylbenzene	18.875	105	319580	3.926	ppbV	#	62
101) Benzyl Chloride	0.000		0	N.D.	d		
102) 1,3-dichlorobenzene	19.067		0	N.D.			
103) 1,4-dichlorobenzene	19.067		0	N.D.			
107) 1,2-dichlorobenzene	19.358		0	N.D.			
115) 1,2,4-trichlorobenzene	20.883		0	N.D.			
119) hexachlorobutadiene	0.000		0	N.D.			

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619128.D
 Acq On : 16 Sep 2020 10:10 PM
 Operator : AIRLAB16:TS
 Sample : L2037647-03,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:02:40 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

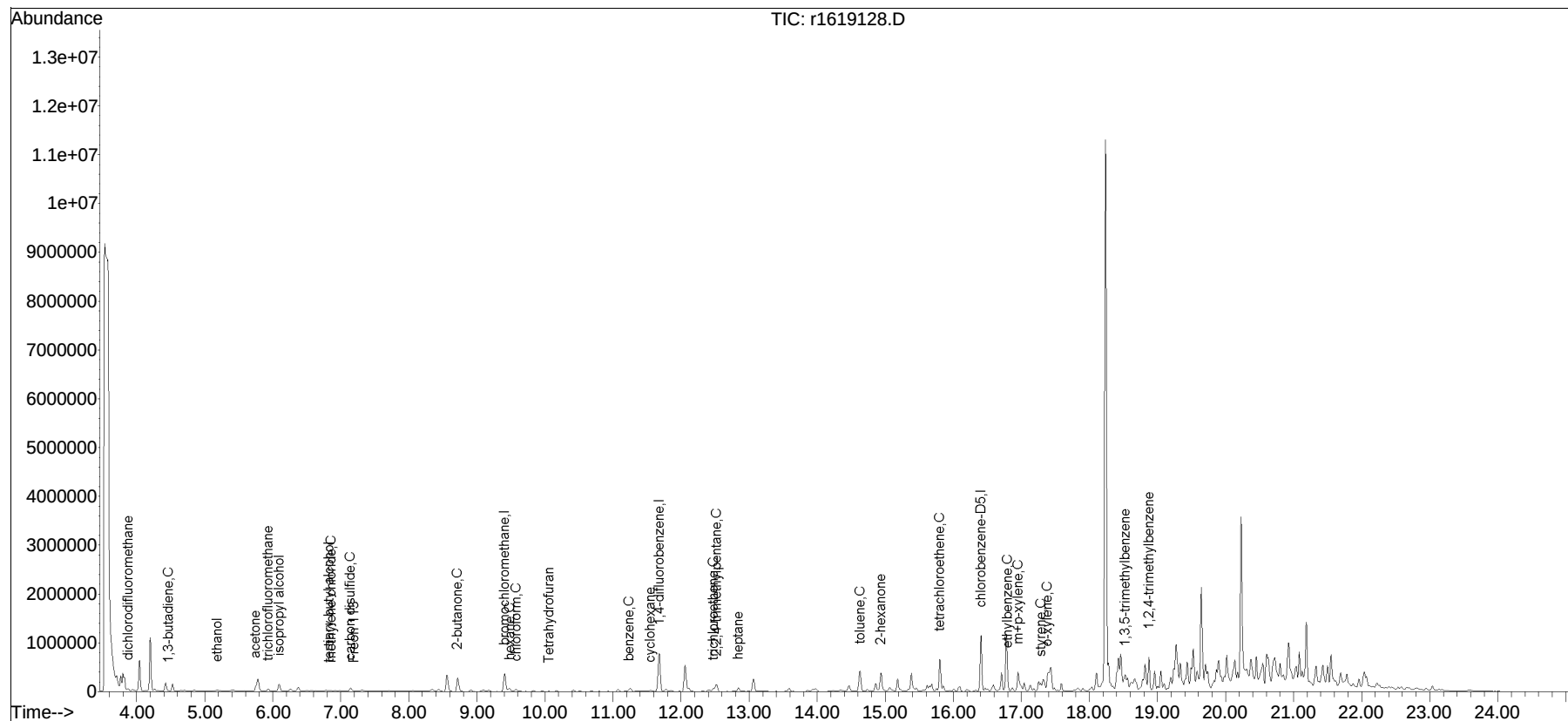
CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

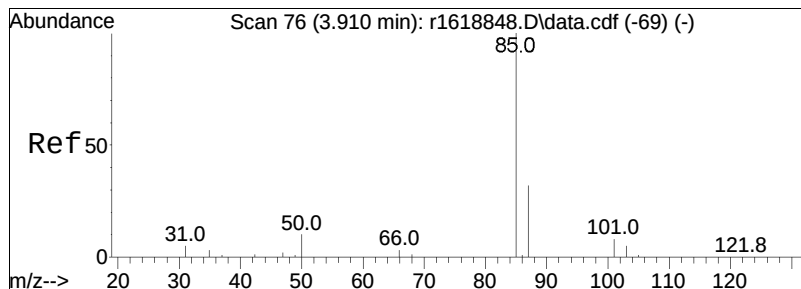
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : T015-NY - .s\Data\Airlab16\2020\09\200916T\r1619115.D

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
Data File : r1619128.D
Acq On : 16 Sep 2020 10:10 PM
Operator : AIRLAB16:TS
Sample : L2037647-03,3,250,250
Misc : WG1410723,ICAL17102
ALS Vial : 0 Sample Multiplier: 1

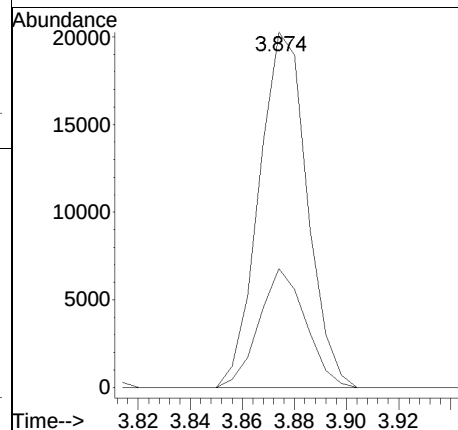
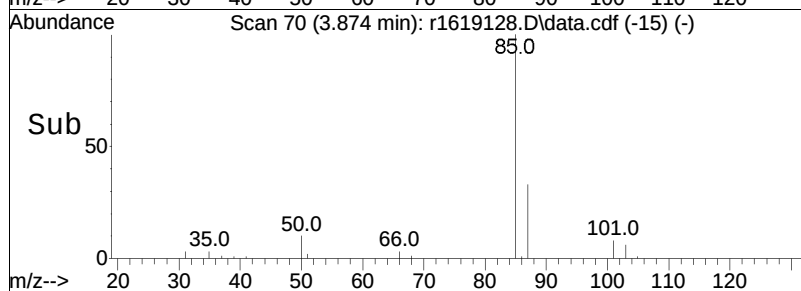
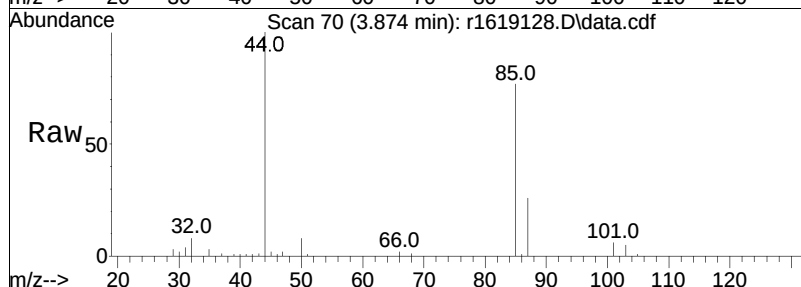
Quant Time: Sep 17 08:02:40 2020
Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Sep 16 13:18:40 2020
Response via : Initial Calibration

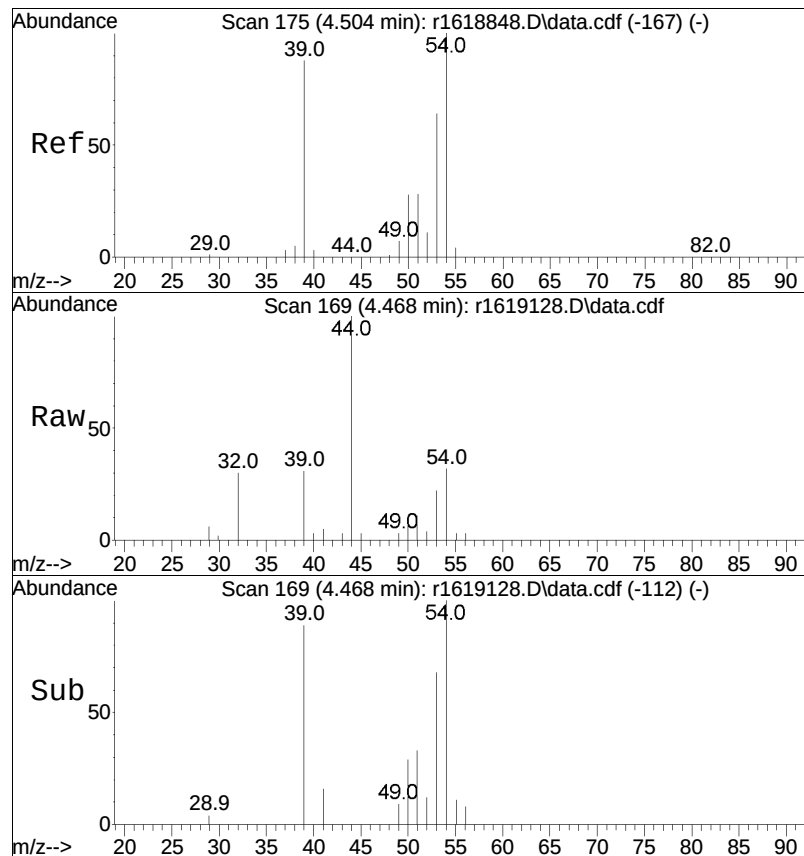




#5
dichlorodifluoromethane
Concen: 1.16 ppbV
RT: 3.874 min Scan# 70
Delta R.T. 0.000 min
Lab File: r1619128.D
Acq: 16 Sep 2020 10:10 PM

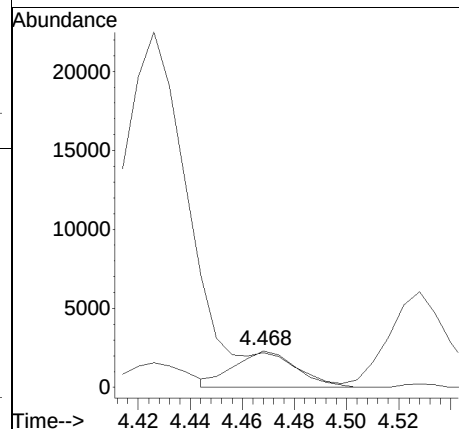
Tgt Ion: 85 Resp: 26052
Ion Ratio Lower Upper
85 100
87 33.5 25.4 38.2

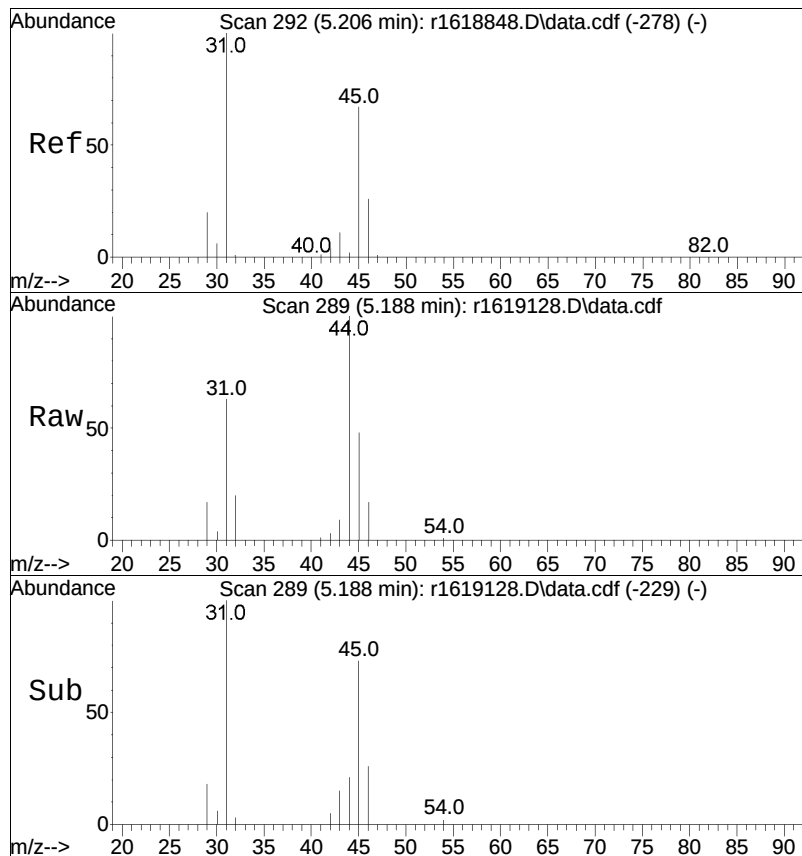




#10
 1,3-butadiene
 Concen: 0.34 ppbV
 RT: 4.468 min Scan# 169
 Delta R.T. 0.012 min
 Lab File: r1619128.D
 Acq: 16 Sep 2020 10:10 PM

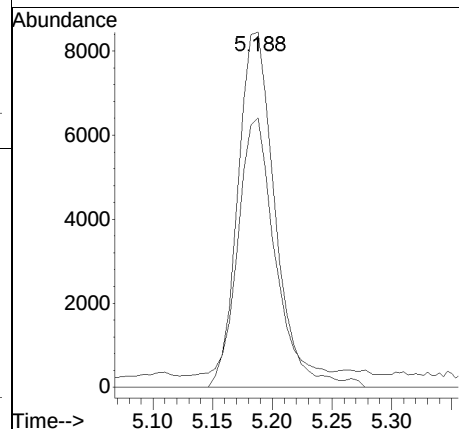
Tgt Ion	Ratio	Lower	Upper
54	100		
39	95.3	70.9	106.3

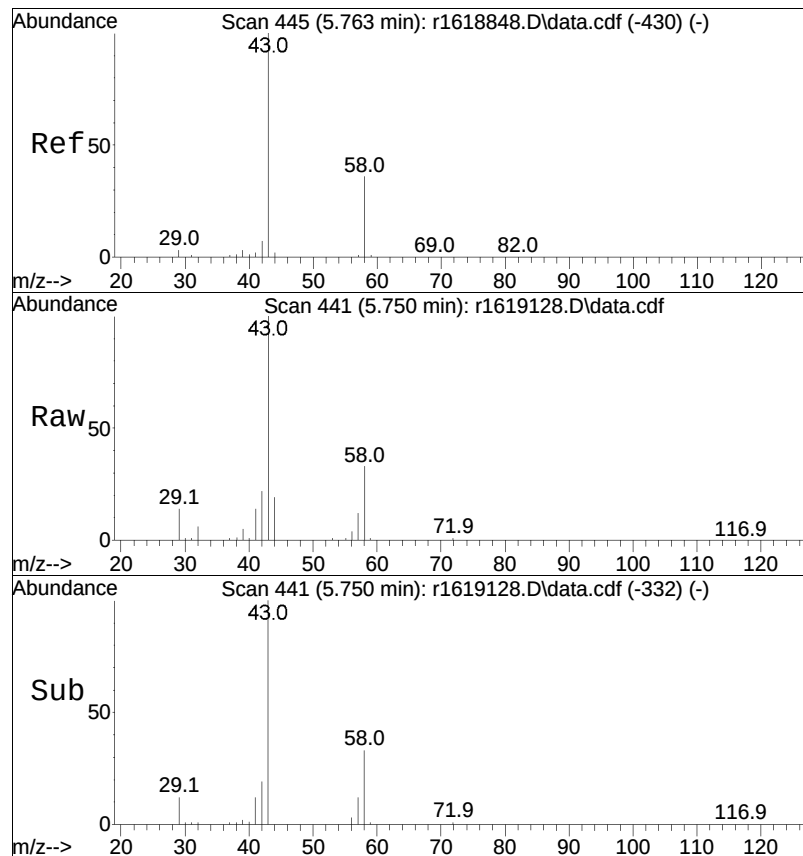




#15
ethanol
Concen: 2.17 ppbV
RT: 5.188 min Scan# 289
Delta R.T. 0.030 min
Lab File: r1619128.D
Acq: 16 Sep 2020 10:10 PM

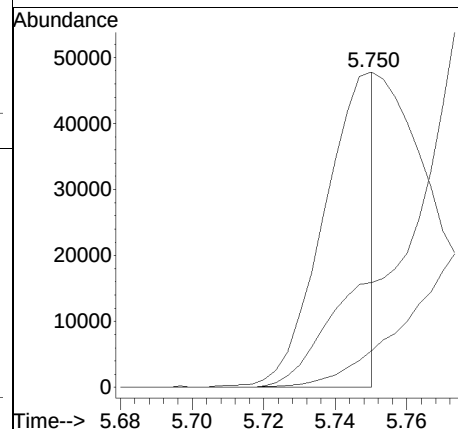
Tgt Ion:	31	45	Ratio	100	75.9	Resp:	18403	Lower	Upper

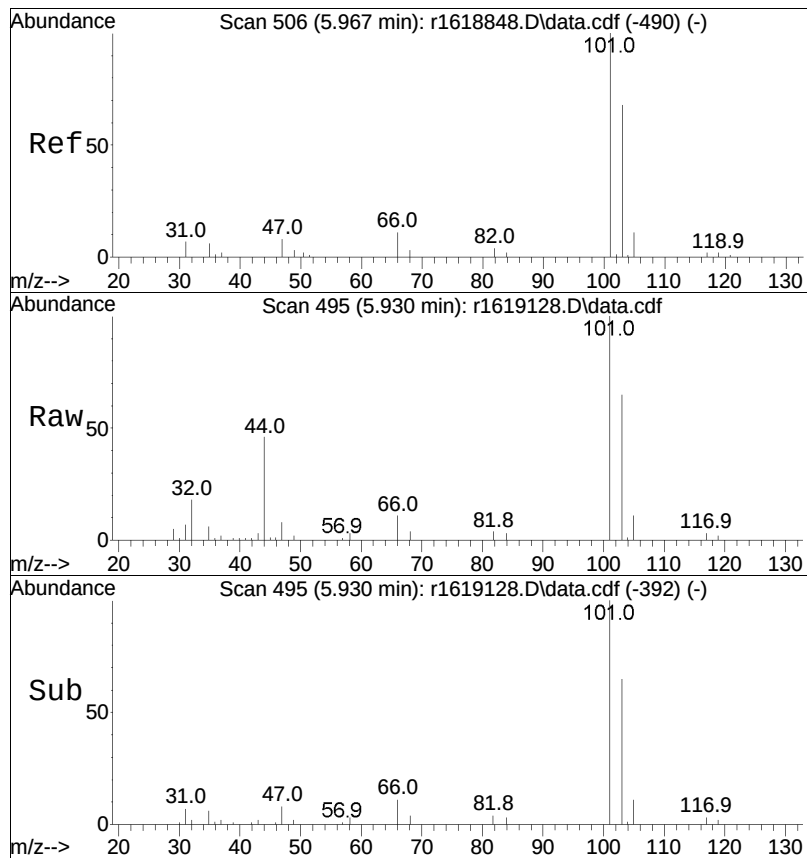




#19
 acetone
 Concen: 2.30 ppbV m
 RT: 5.750 min Scan# 441
 Delta R.T. 0.033 min
 Lab File: r1619128.D
 Acq: 16 Sep 2020 10:10 PM

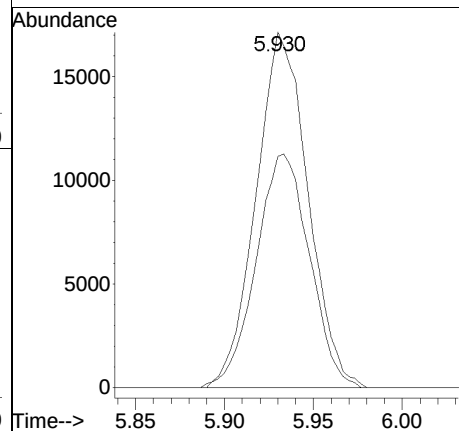
Tgt Ion:	43	Resp:	47297
Ion Ratio	Lower	Upper	
43	100		
58	33.2	28.9	43.3
57	11.6	0.7	1.1#

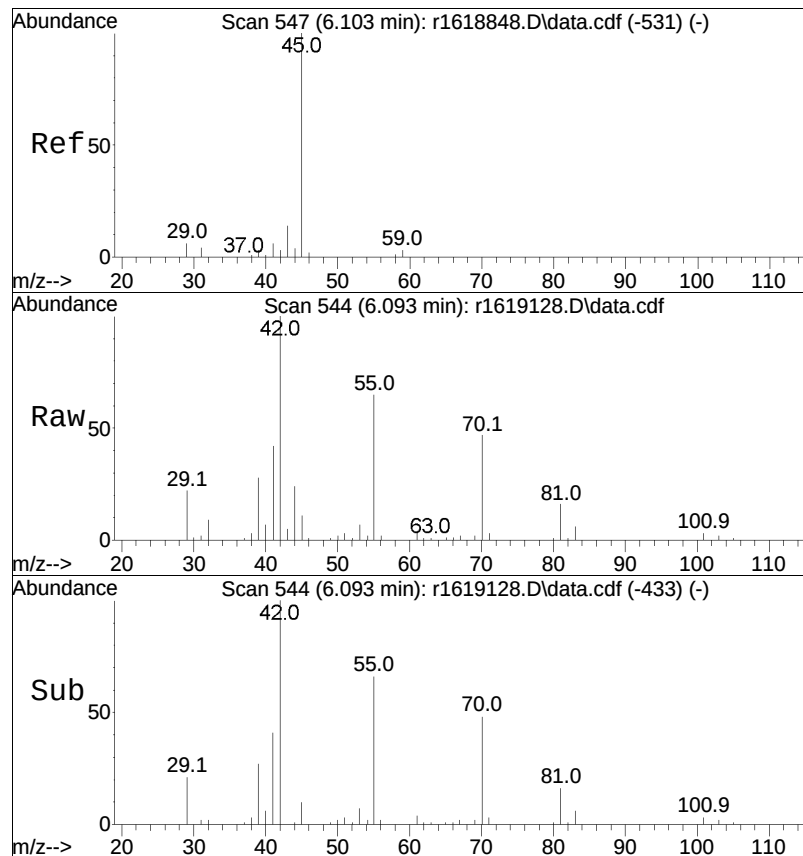




#21
trichlorofluoromethane
Concen: 1.91 ppbV
RT: 5.930 min Scan# 495
Delta R.T. 0.013 min
Lab File: r1619128.D
Acq: 16 Sep 2020 10:10 PM

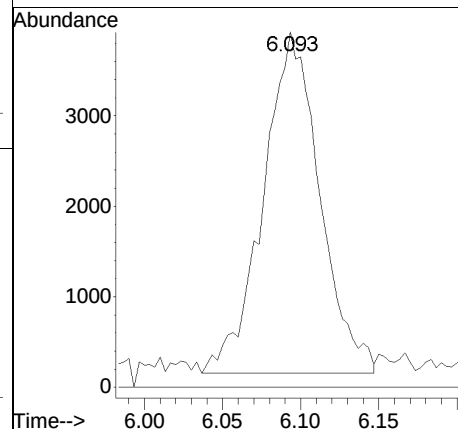
Tgt	Ion	Ratio	Lower	Upper
101	100			
103	65.0	54.6	82.0	

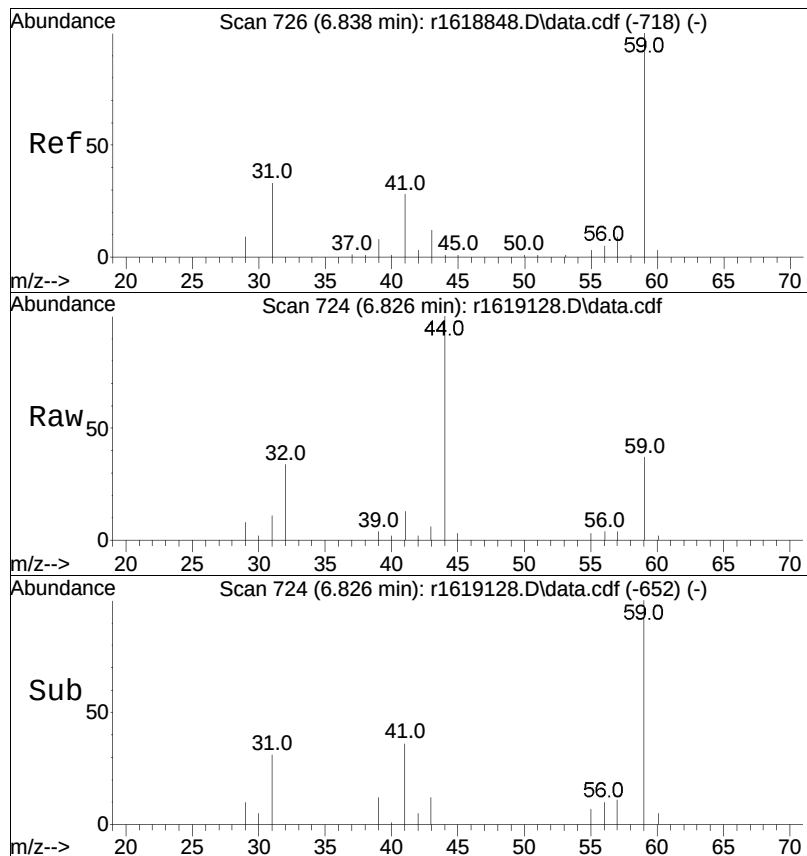




#22
 isopropyl alcohol
 Concen: 0.37 ppbV
 RT: 6.093 min Scan# 544
 Delta R.T. 0.040 min
 Lab File: r1619128.D
 Acq: 16 Sep 2020 10:10 PM

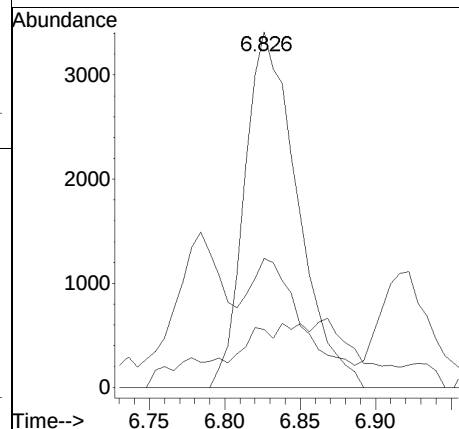
Tgt Ion	Ratio	Lower	Upper
45	100		
59	0.0	2.7	4.1#

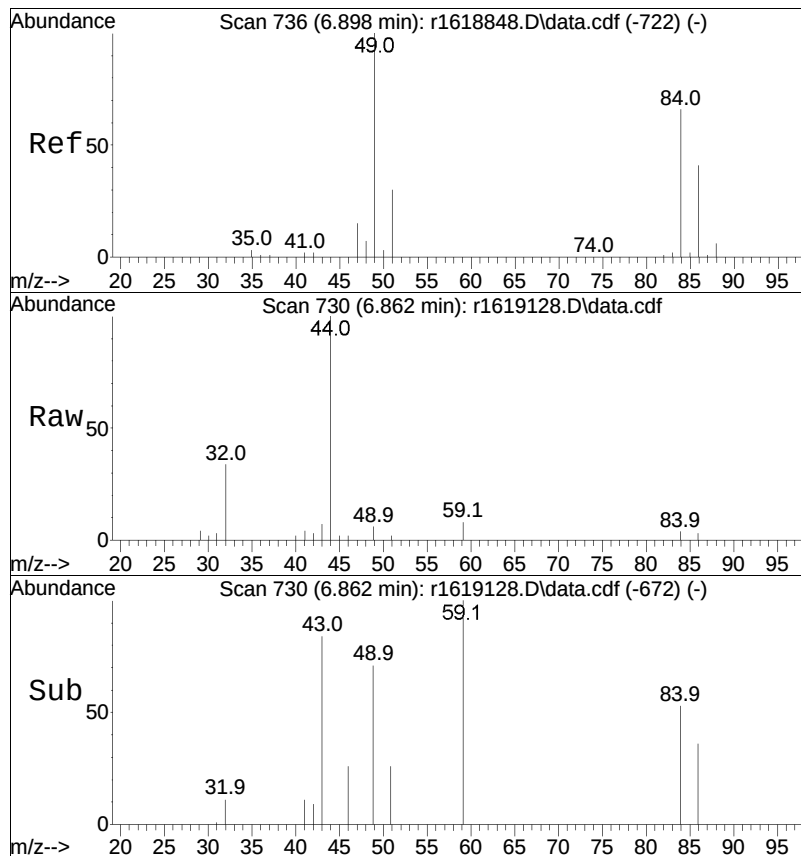




#27
 tertiary butyl alcohol
 Concen: 0.44 ppbV
 RT: 6.826 min Scan# 724
 Delta R.T. 0.042 min
 Lab File: r1619128.D
 Acq: 16 Sep 2020 10:10 PM

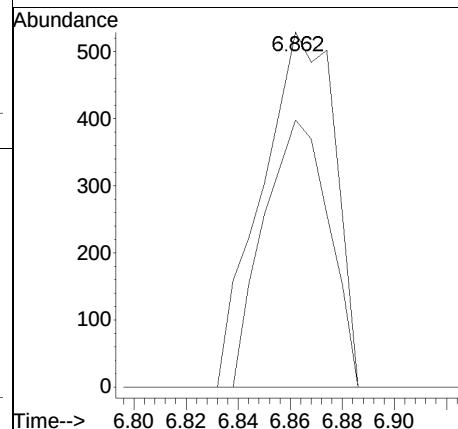
Tgt Ion:	59	Resp:	8293
Ion Ratio	Lower	Upper	
59	100		
41	36.3	22.4	33.6#
43	16.3	10.2	15.2#

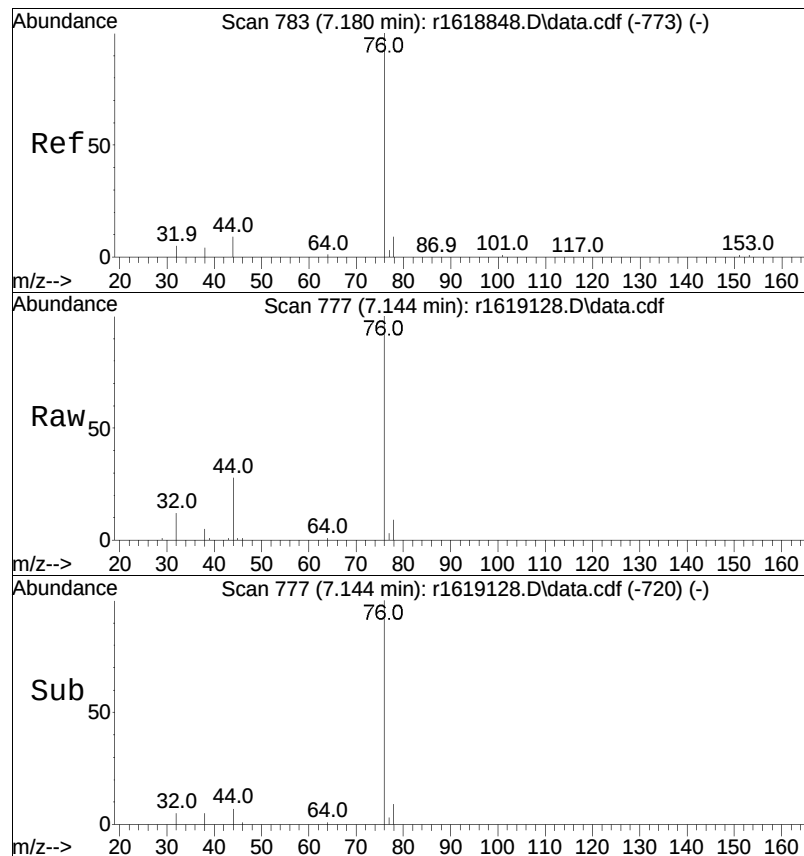




#28
 methylene chloride
 Concen: 0.06 ppbV
 RT: 6.862 min Scan# 730
 Delta R.T. 0.012 min
 Lab File: r1619128.D
 Acq: 16 Sep 2020 10:10 PM

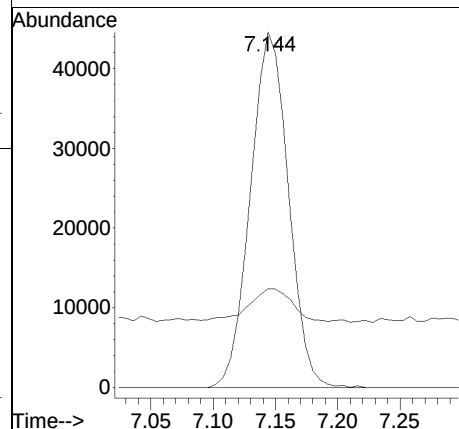
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	1033				
	100	75.2		53.2	79.8

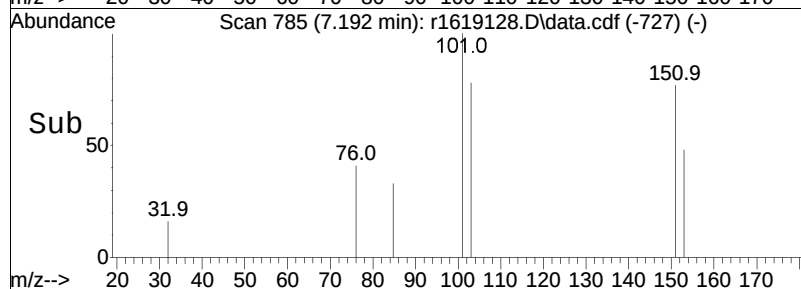
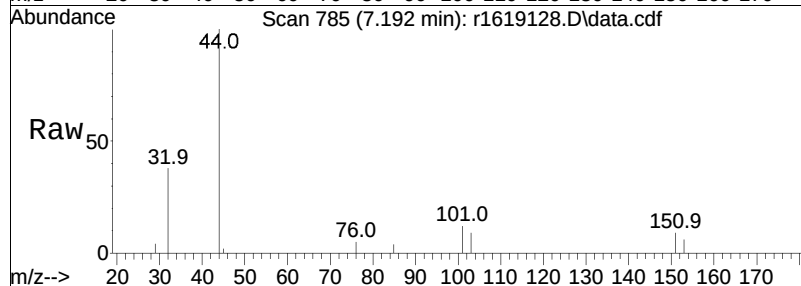
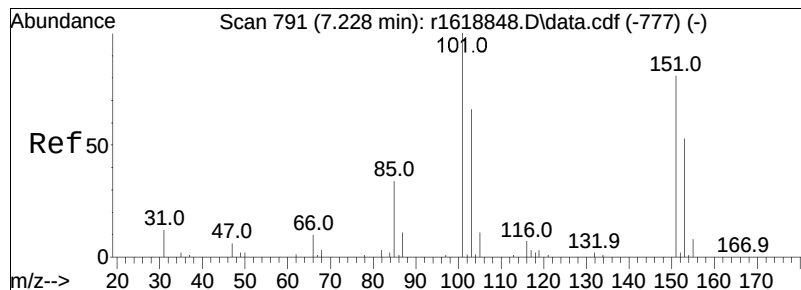




#30
 carbon disulfide
 Concen: 2.18 ppbV
 RT: 7.144 min Scan# 777
 Delta R.T. 0.012 min
 Lab File: r1619128.D
 Acq: 16 Sep 2020 10:10 PM

Tgt Ion	Ratio	Lower	Upper
76	100		
44	27.8	7.7	11.5#





#31

Freon 113

Concen: 0.09 ppbV

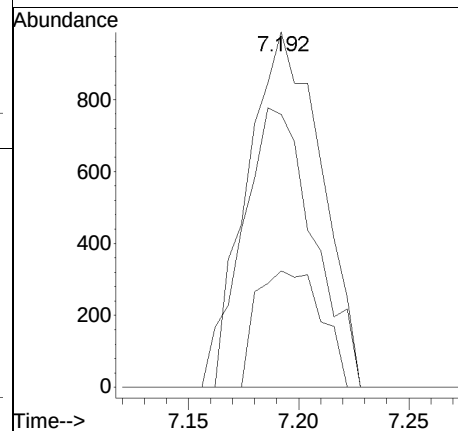
RT: 7.192 min Scan# 785

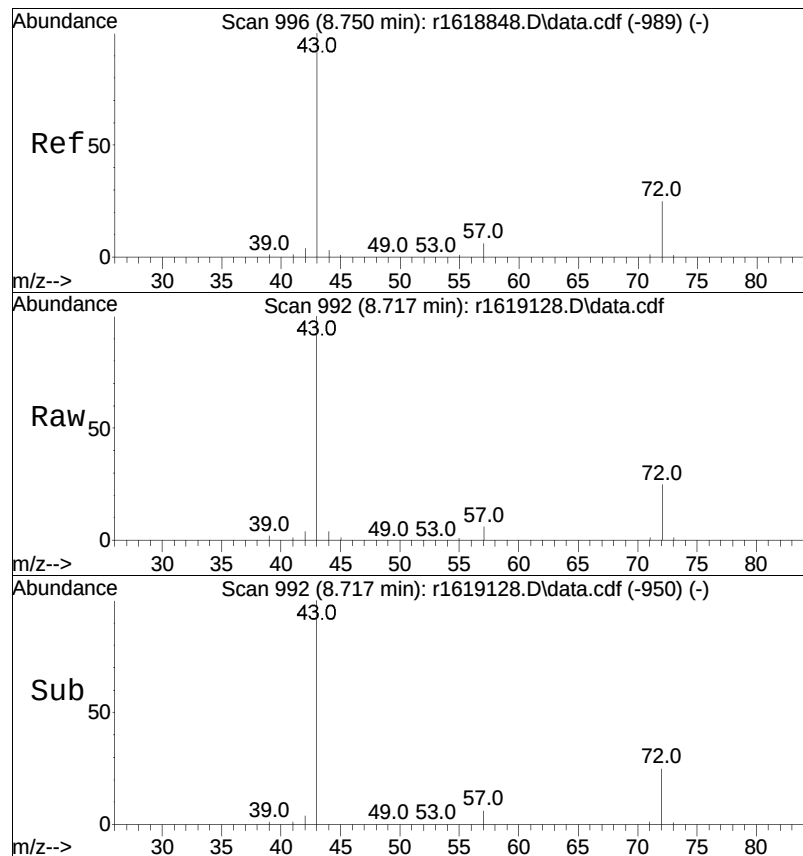
Delta R.T. 0.018 min

Lab File: r1619128.D

Acq: 16 Sep 2020 10:10 PM

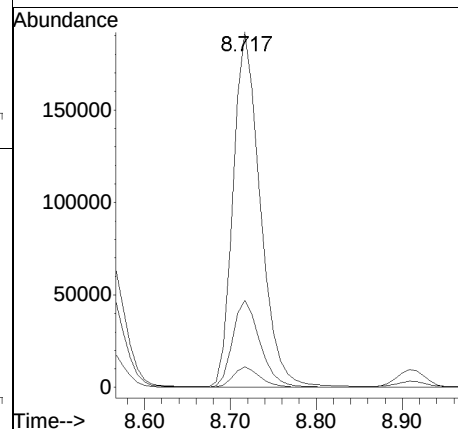
Tgt Ion:	101	Resp:	2289
Ion Ratio	Lower	Upper	
101	100		
85	32.8	27.5	41.3
151	76.8	65.1	97.7

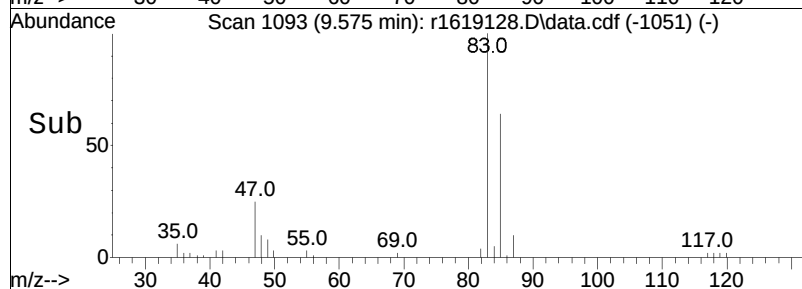
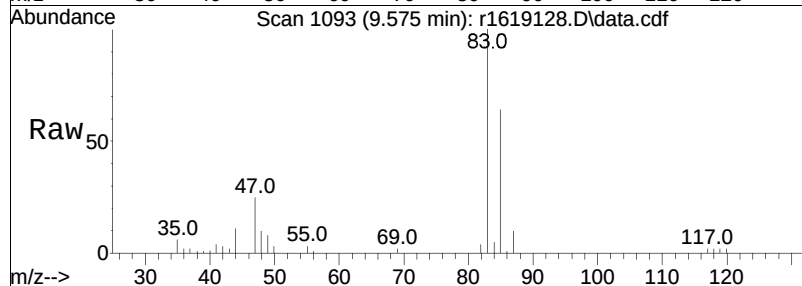
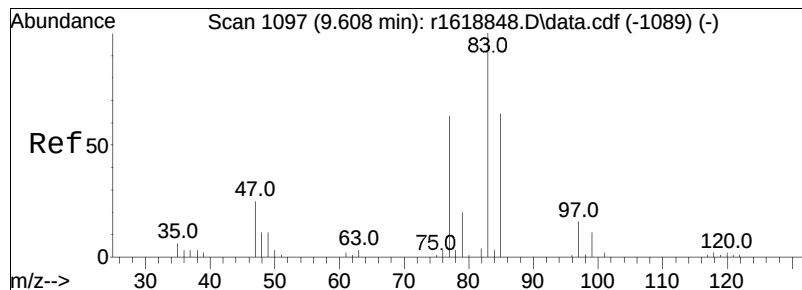




#36
 2-butanone
 Concen: 13.01 ppbV
 RT: 8.717 min Scan# 992
 Delta R.T. 0.017 min
 Lab File: r1619128.D
 Acq: 16 Sep 2020 10:10 PM

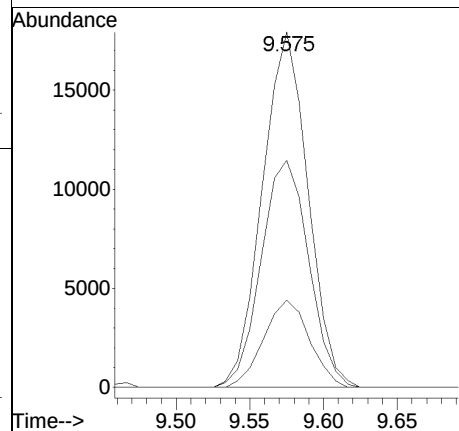
Tgt	Ion: 43	Resp: 421282
Ion	Ratio	Lower Upper
43	100	
72	24.5	19.8 29.6
57	5.8	4.6 6.8

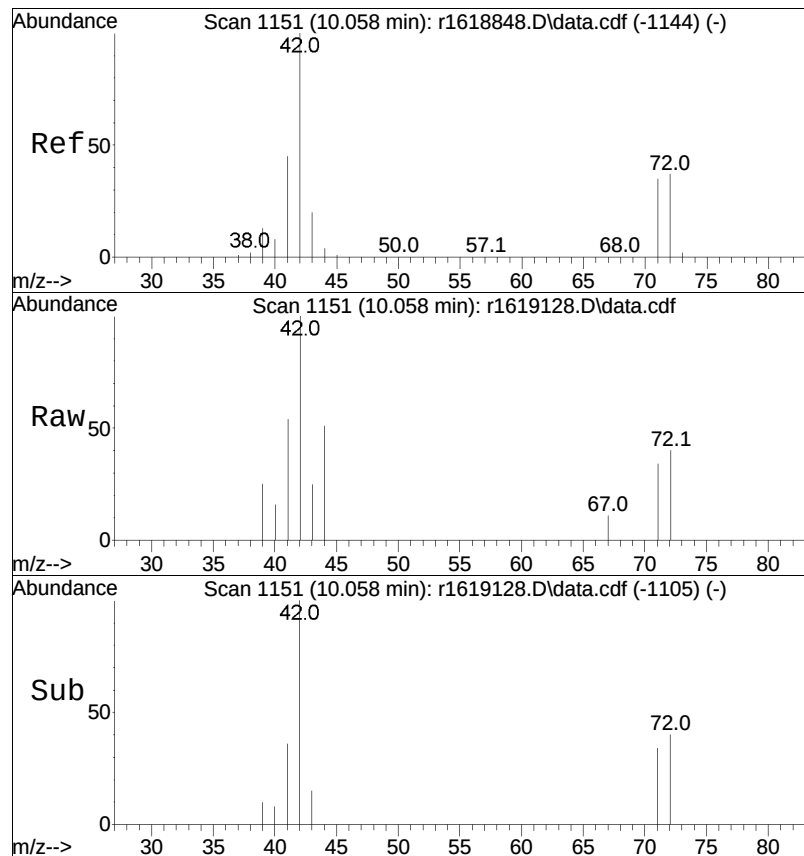




#39
chloroform
Concen: 1.68 ppbV
RT: 9.575 min Scan# 1093
Delta R.T. 0.017 min
Lab File: r1619128.D
Acq: 16 Sep 2020 10:10 PM

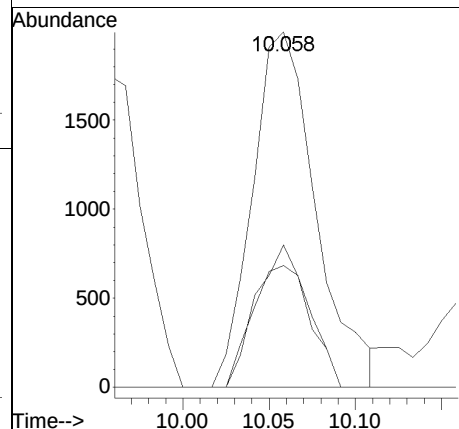
Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.5	77.3
47	24.5	20.1	30.1

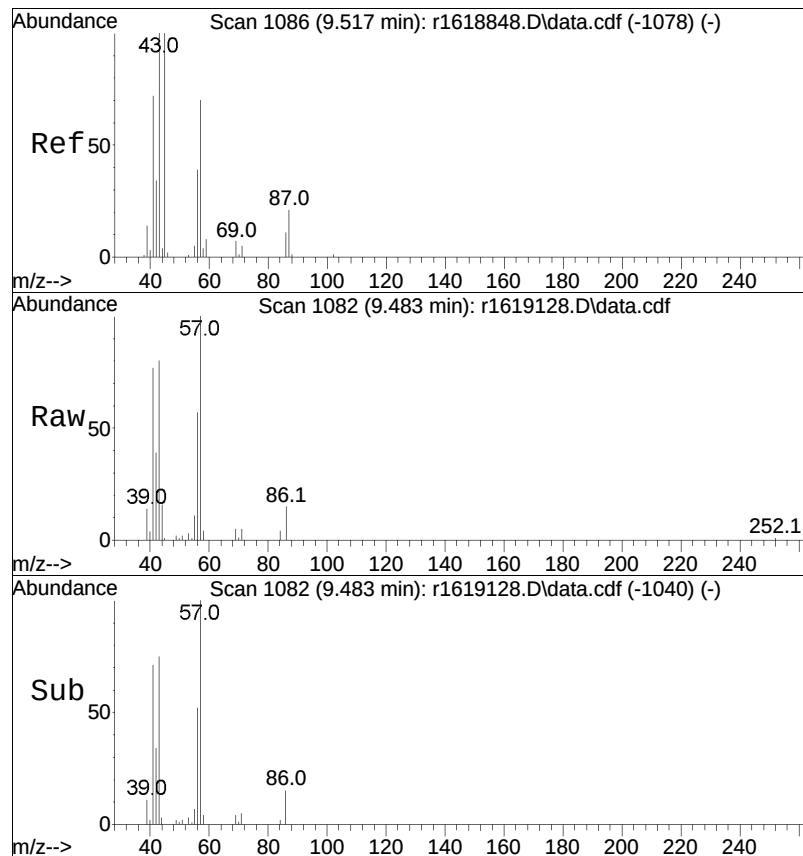




#40
Tetrahydrofuran
Concen: 0.22 ppbV m
RT: 10.058 min Scan# 1151
Delta R.T. 0.050 min
Lab File: r1619128.D
Acq: 16 Sep 2020 10:10 PM

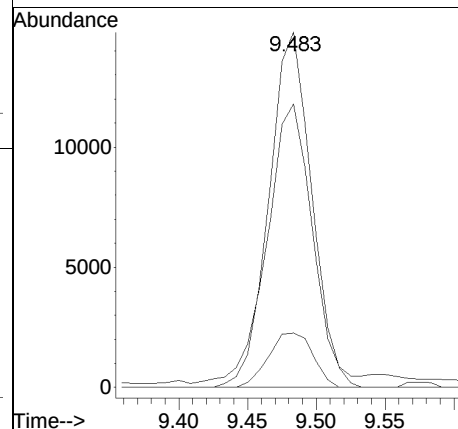
Tgt	Ion	Ratio	Lower	Upper
42	100			
71	34.3	28.2	42.2	
72	40.1	29.9	44.9	

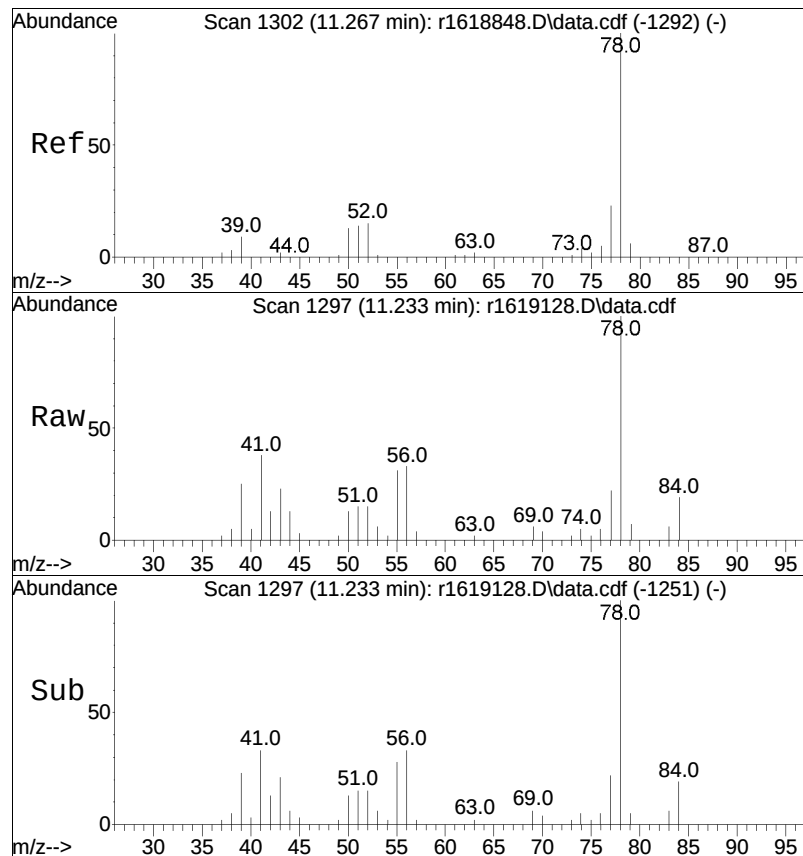




#44
hexane
Concen: 1.16 ppbV
RT: 9.483 min Scan# 1082
Delta R.T. 0.017 min
Lab File: r1619128.D
Acq: 16 Sep 2020 10:10 PM

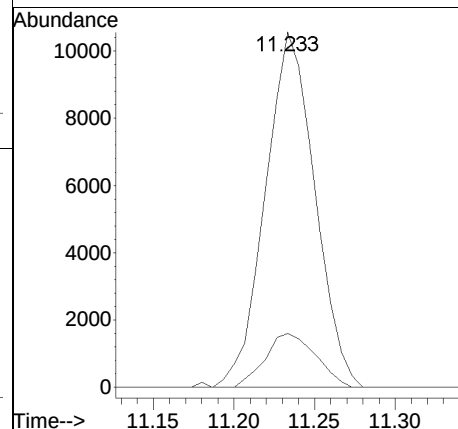
Tgt Ion	Ratio	Lower	Upper
57	100		
43	79.8	114.4	171.6#
86	15.3	12.6	18.8

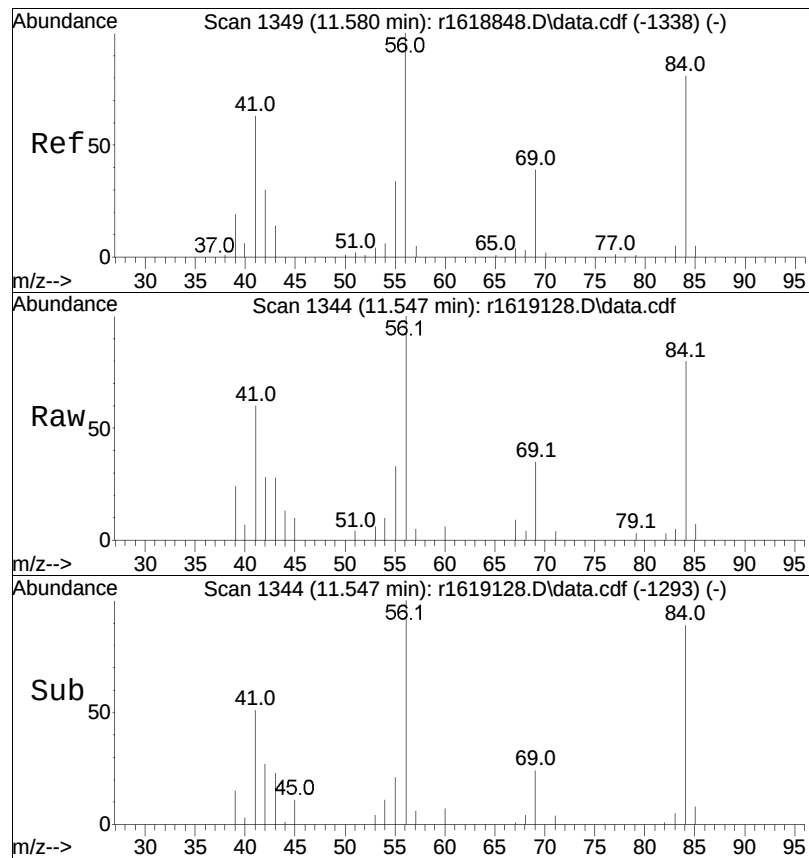




#50
benzene
Concen: 0.38 ppbV
RT: 11.233 min Scan# 1297
Delta R.T. 0.013 min
Lab File: r1619128.D
Acq: 16 Sep 2020 10:10 PM

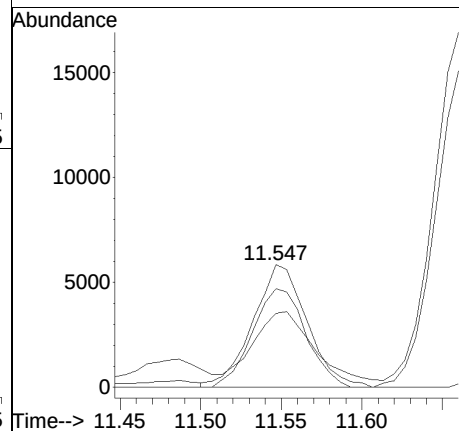
Tgt Ion	Ratio	Lower	Upper
78	100		
52	15.2	11.8	17.6

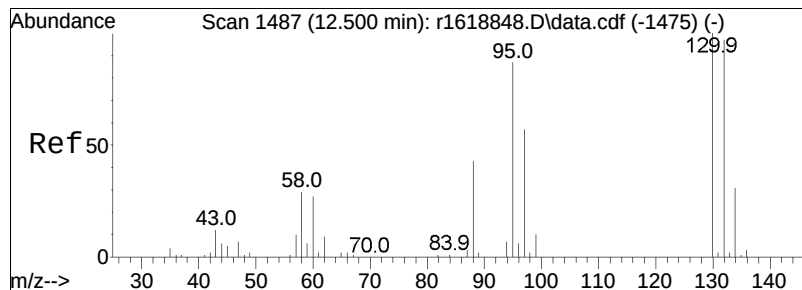




#53
cyclohexane
Concen: 0.46 ppbV
RT: 11.547 min Scan# 1344
Delta R.T. 0.013 min
Lab File: r1619128.D
Acq: 16 Sep 2020 10:10 PM

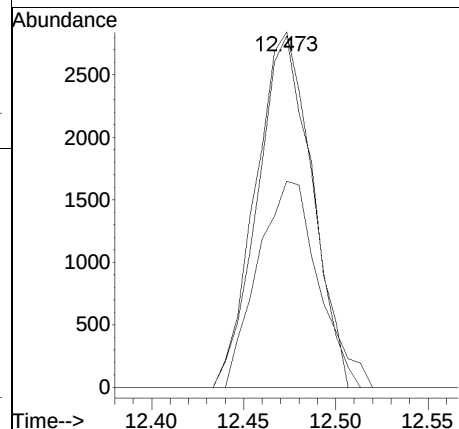
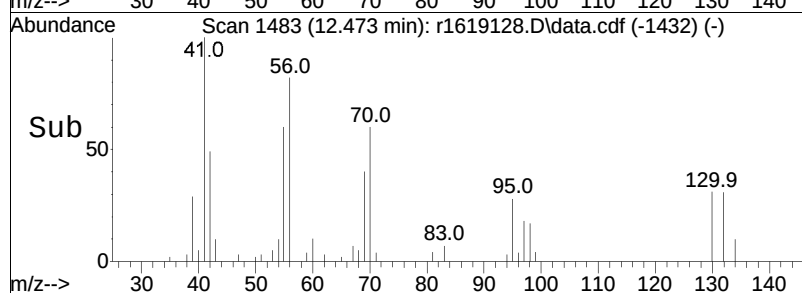
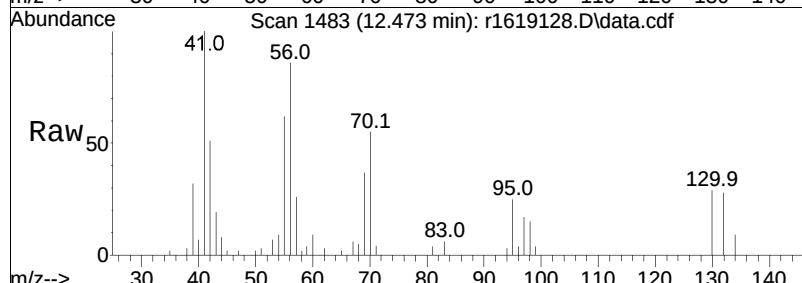
Tgt	Ion: 56	Resp:	13687
Ion	Ratio	Lower	Upper
56	100		
84	80.4	64.6	96.8
41	60.2	50.5	75.7

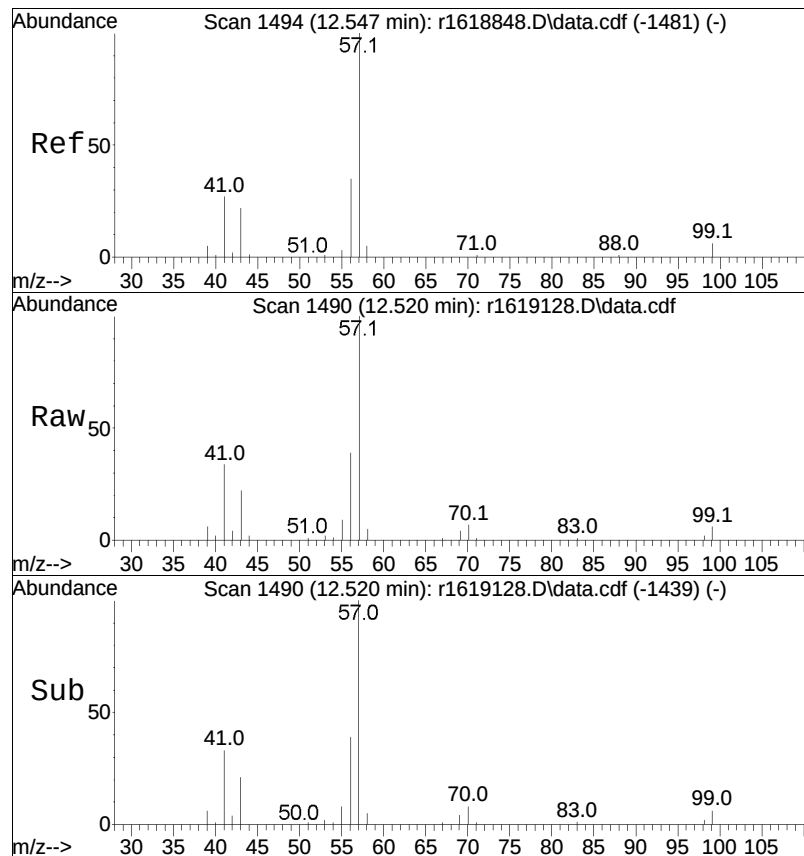




#59
trichloroethene
Concen: 0.24 ppbV
RT: 12.473 min Scan# 1483
Delta R.T. 0.013 min
Lab File: r1619128.D
Acq: 16 Sep 2020 10:10 PM

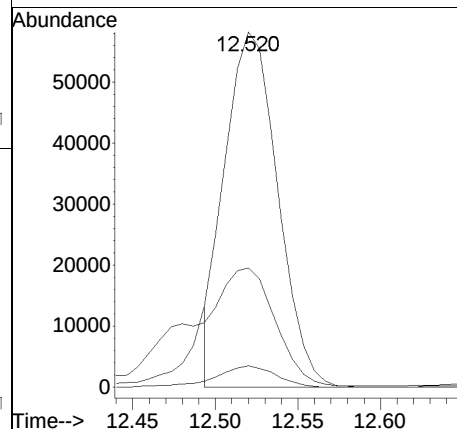
Tgt Ion	Ratio	Lower	Upper
130	100		
132	98.9	77.4	116.2
97	58.1	45.5	68.3

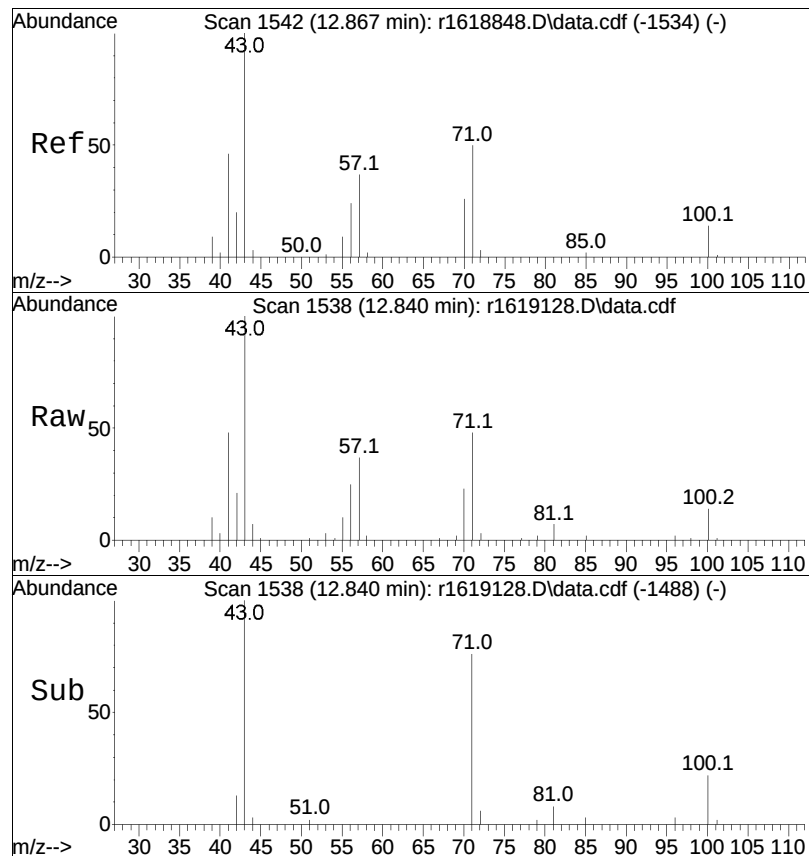




#60
 2,2,4-trimethylpentane
 Concen: 1.39 ppbV m
 RT: 12.520 min Scan# 1490
 Delta R.T. 0.013 min
 Lab File: r1619128.D
 Acq: 16 Sep 2020 10:10 PM

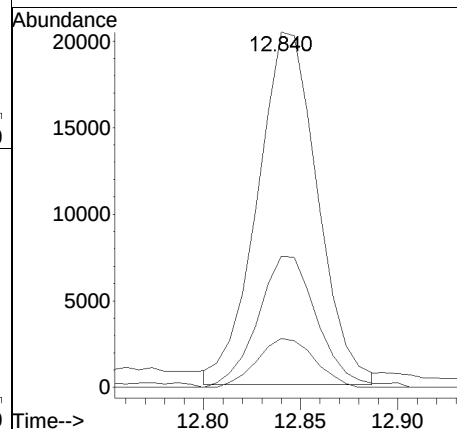
Tgt	Ion: 57	Resp:	130302
Ion	Ratio	Lower	Upper
57	100		
99	6.1	4.9	7.3
41	33.6	21.9	32.9#

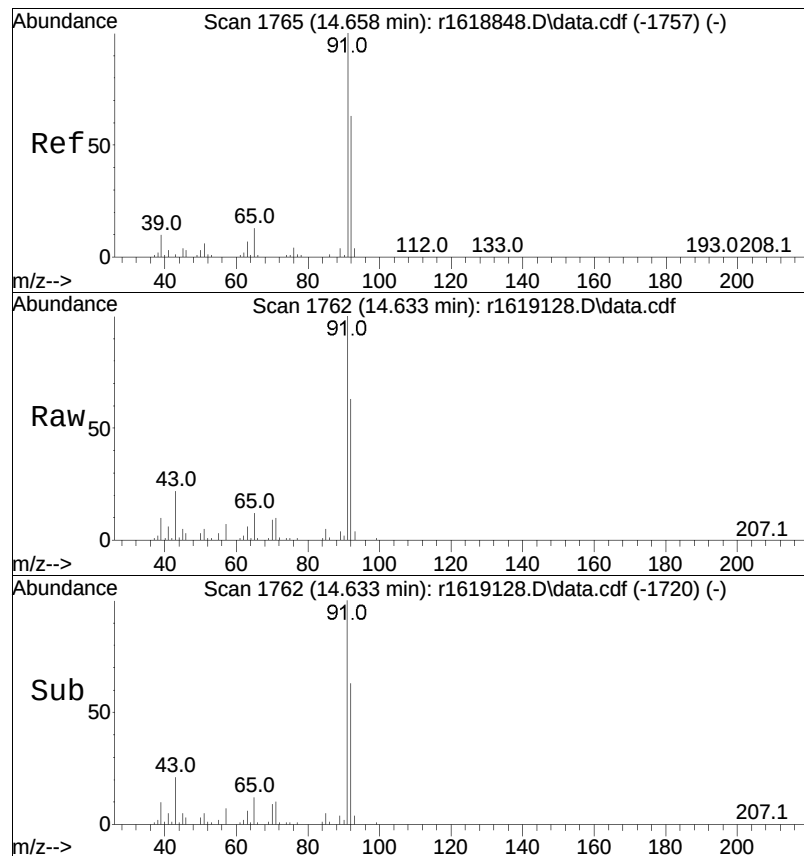




#62
 heptane
 Concen: 0.94 ppbV m
 RT: 12.840 min Scan# 1538
 Delta R.T. 0.007 min
 Lab File: r1619128.D
 Acq: 16 Sep 2020 10:10 PM

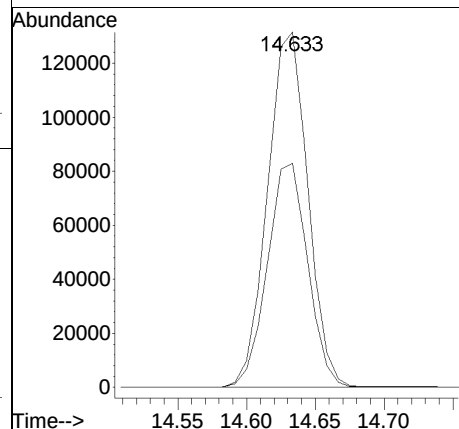
Tgt	Ion: 43	Resp:	43998
Ion	Ratio	Lower	Upper
43	100		
57	36.9	29.9	44.9
100	13.8	11.5	17.3

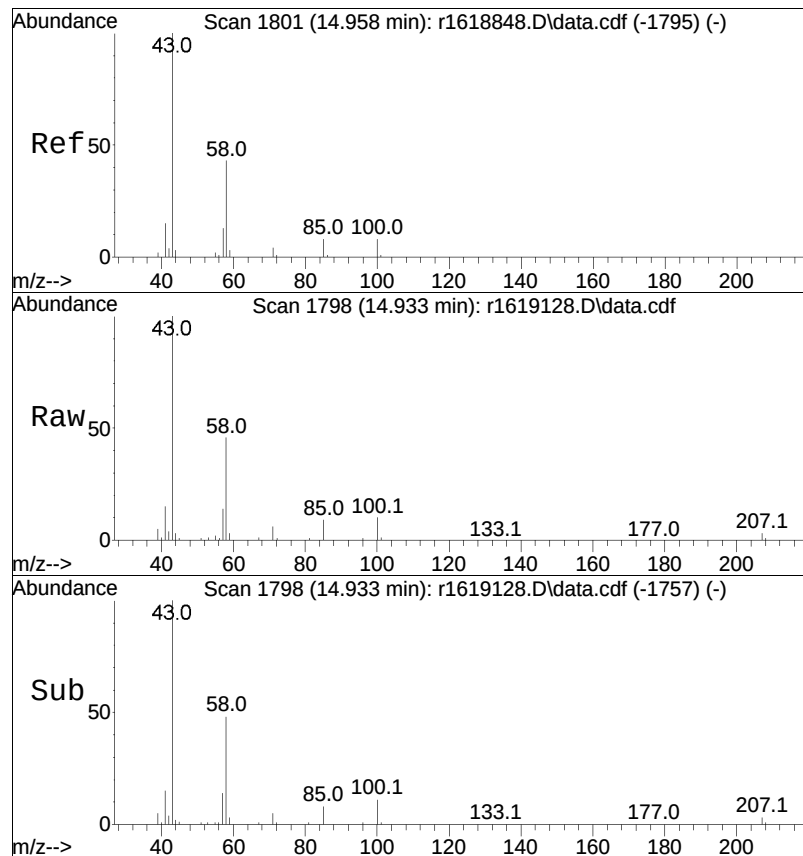




#68
 toluene
 Concen: 4.04 ppbV
 RT: 14.633 min Scan# 1762
 Delta R.T. 0.017 min
 Lab File: r1619128.D
 Acq: 16 Sep 2020 10:10 PM

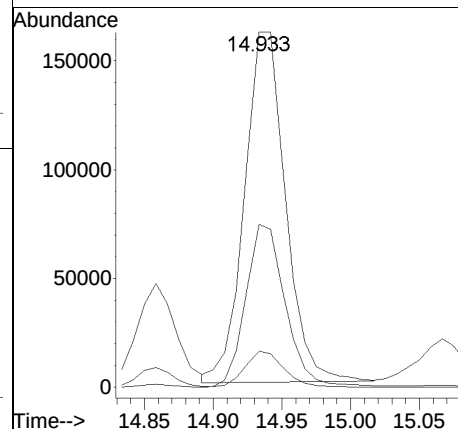
Tgt Ion	Ratio	Lower	Upper
91	100		
92	63.1	50.6	75.8

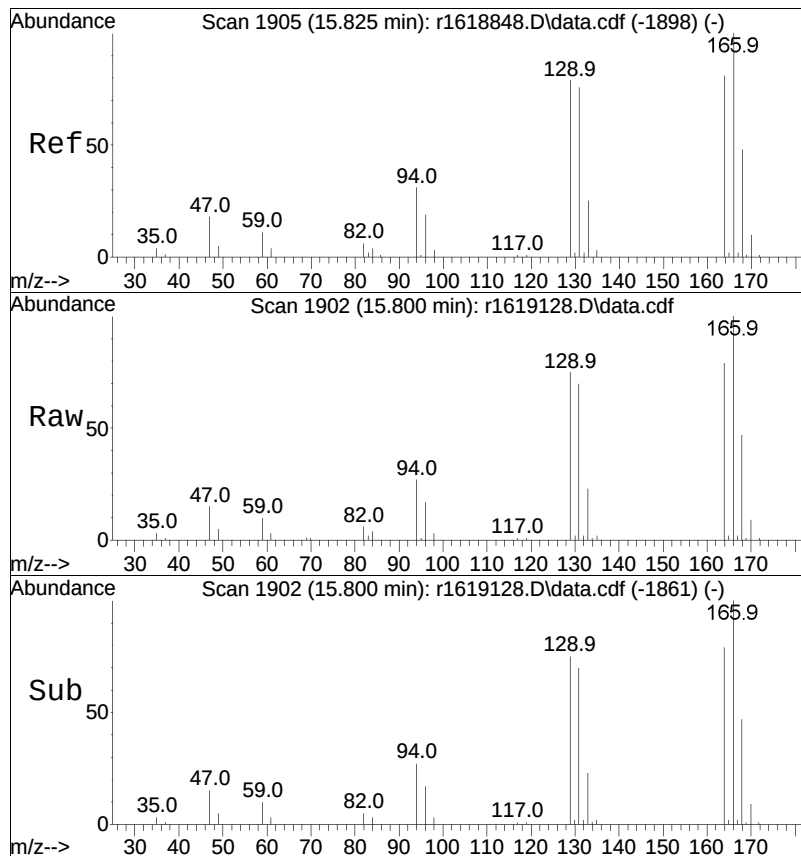




#72
 2-hexanone
 Concen: 7.13 ppbV
 RT: 14.933 min Scan# 1798
 Delta R.T. 0.008 min
 Lab File: r1619128.D
 Acq: 16 Sep 2020 10:10 PM

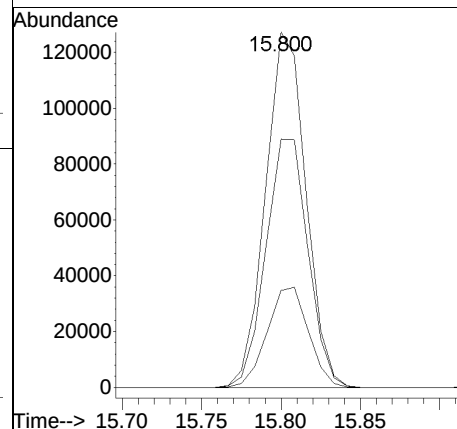
Tgt Ion:	43	58	100	Ratio	Lower	Upper
Resp:	335369					
Ratio	100	45.9	10.2			
Lower		35.8	8.0			
Upper		53.8	12.0			

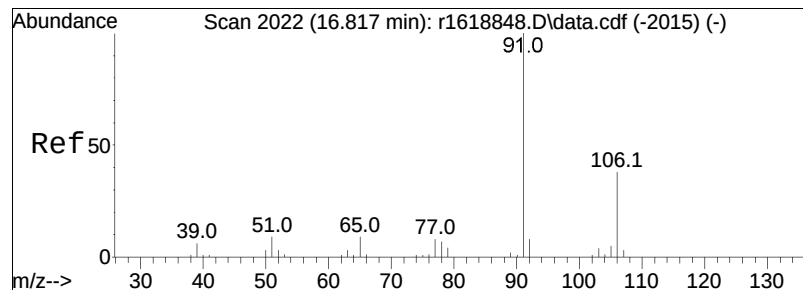




#78
 tetrachloroethene
 Concen: 7.83 ppbV
 RT: 15.800 min Scan# 1902
 Delta R.T. 0.008 min
 Lab File: r1619128.D
 Acq: 16 Sep 2020 10:10 PM

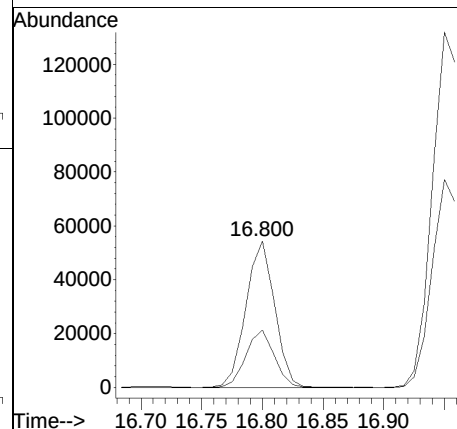
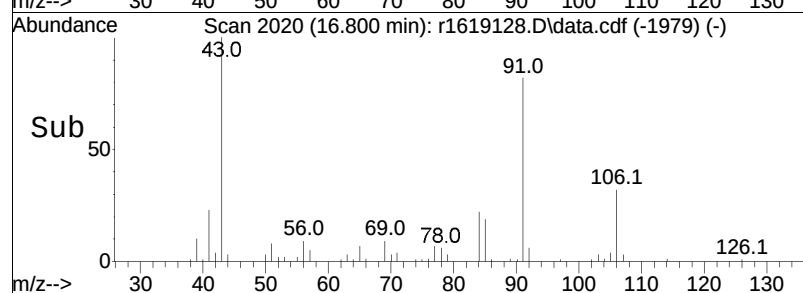
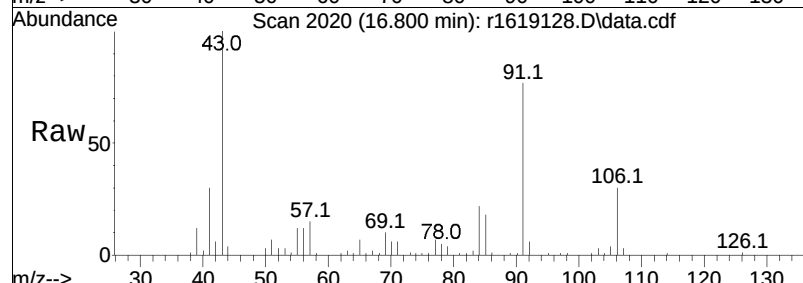
Tgt	Ion	Ratio	Resp	Lower	Upper
166	100		225210		
131	69.9	61.0		91.6	
94	27.3	24.6		37.0	

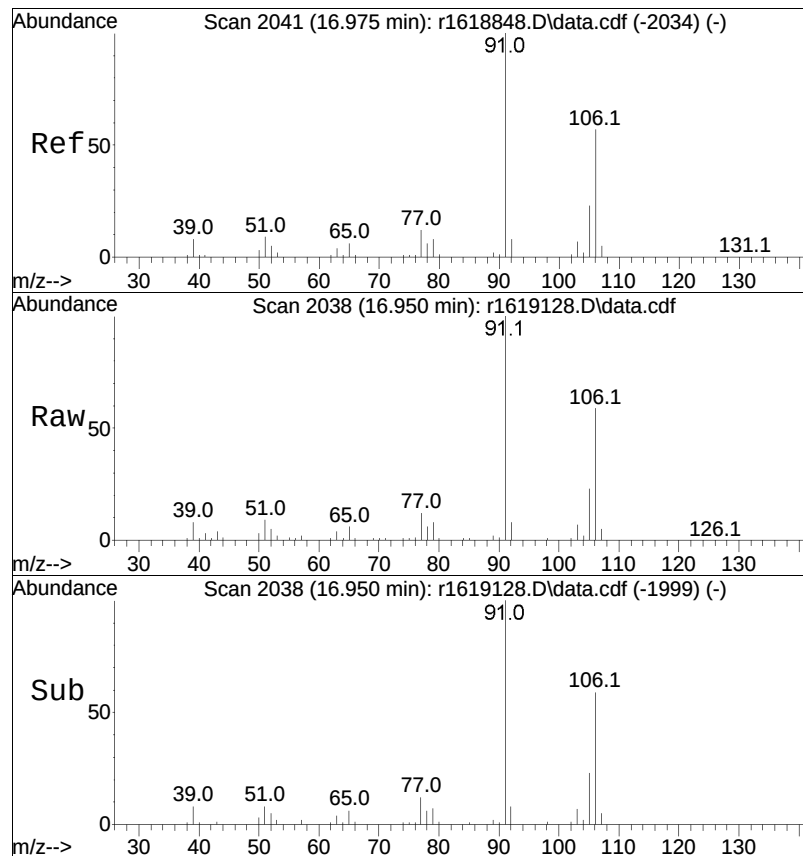




#81
ethylbenzene
Concen: 1.07 ppbV
RT: 16.800 min Scan# 2020
Delta R.T. 0.008 min
Lab File: r1619128.D
Acq: 16 Sep 2020 10:10 PM

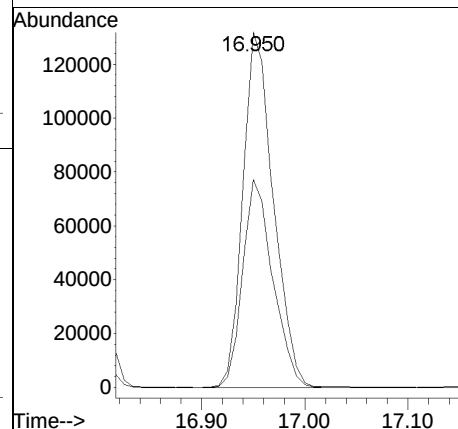
Tgt Ion	Ratio	Lower	Upper
91	100		
106	39.2	30.3	45.5

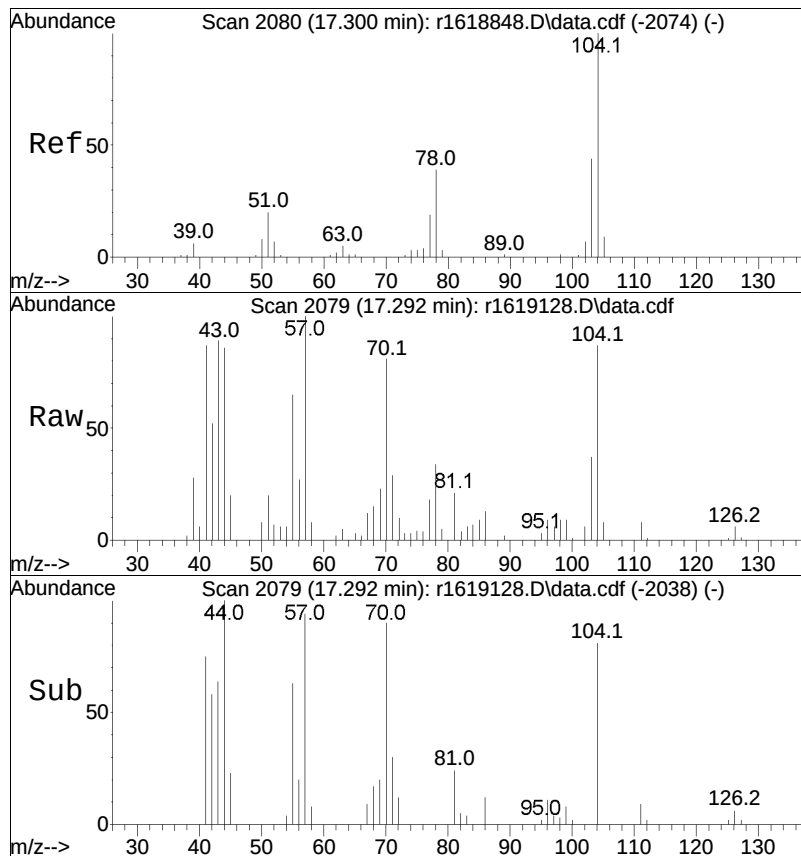




#83
 m+p-xylene
 Concen: 3.99 ppbV
 RT: 16.950 min Scan# 2038
 Delta R.T. -0.008 min
 Lab File: r1619128.D
 Acq: 16 Sep 2020 10:10 PM

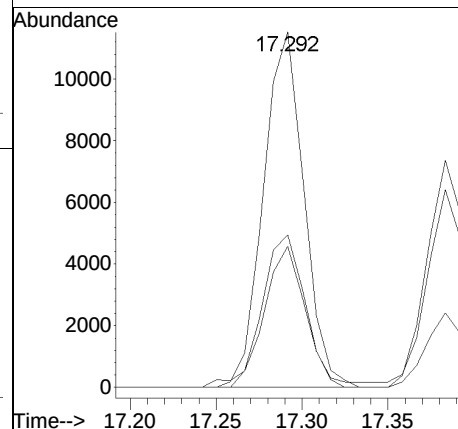
Tgt Ion:	91	106	Ratio	Lower	Upper
Resp:	271251				
Ion Ratio	100	58.5		45.2	67.8

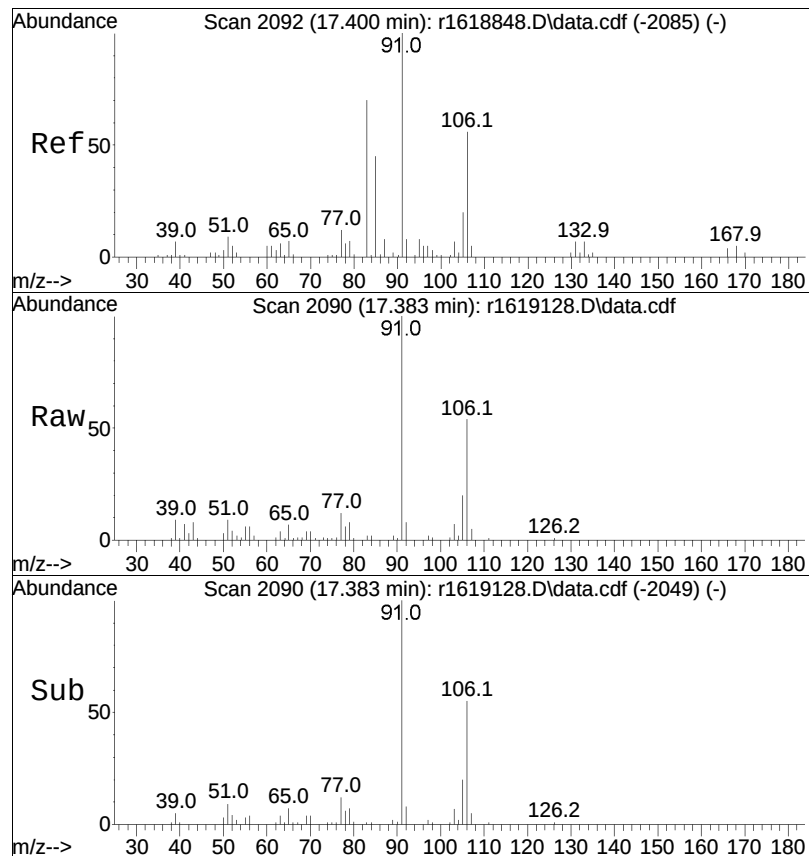




#85
styrene
Concen: 0.33 ppbV
RT: 17.292 min Scan# 2079
Delta R.T. 0.008 min
Lab File: r1619128.D
Acq: 16 Sep 2020 10:10 PM

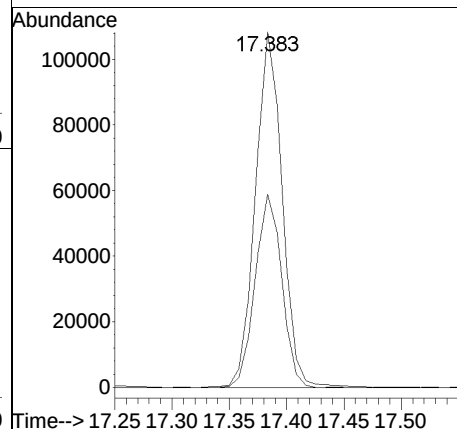
Tgt	Ion	Ratio	Lower	Upper
104	100			
103	42.9	35.3	52.9	
78	39.7	31.5	47.3	

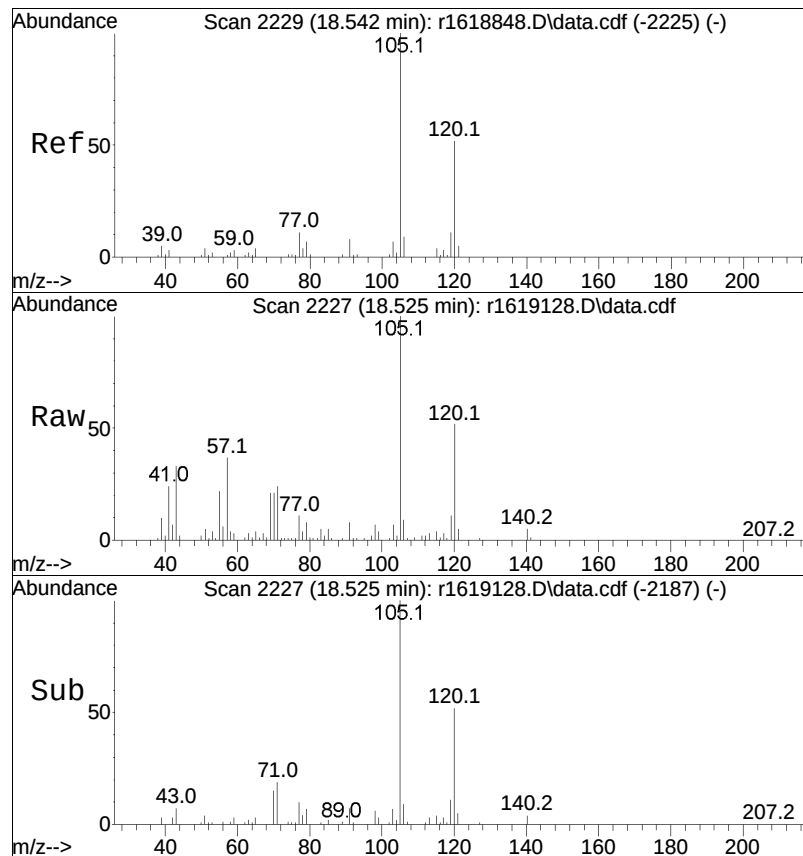




#87
 o-xylene
 Concen: 2.57 ppbV
 RT: 17.383 min Scan# 2090
 Delta R.T. 0.008 min
 Lab File: r1619128.D
 Acq: 16 Sep 2020 10:10 PM

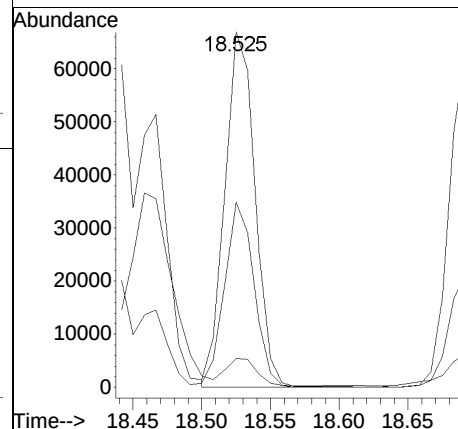
Tgt Ion	Ratio	Lower	Upper
91	100		
106	54.4	44.6	66.8

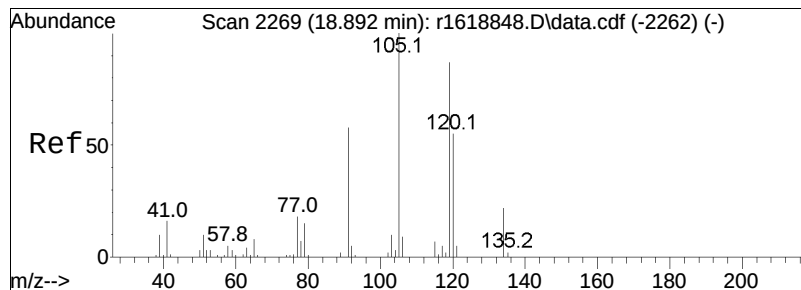




#97
 1,3,5-trimethylbenzene
 Concen: 1.19 ppbV
 RT: 18.525 min Scan# 2227
 Delta R.T. 0.000 min
 Lab File: r1619128.D
 Acq: 16 Sep 2020 10:10 PM

Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.1	41.2	61.8
91	8.2	6.7	10.1





#99

1,2,4-trimethylbenzene

Concen: 3.93 ppbV

RT: 18.875 min Scan# 2267

Delta R.T. 0.008 min

Lab File: r1619128.D

Acq: 16 Sep 2020 10:10 PM

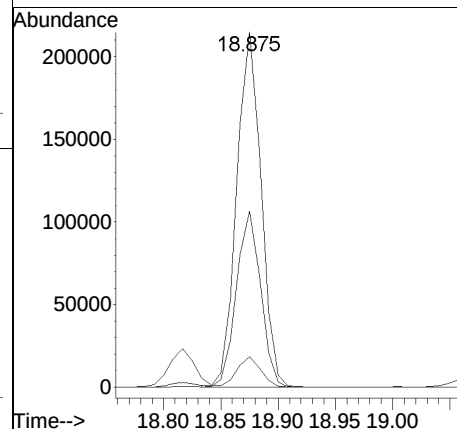
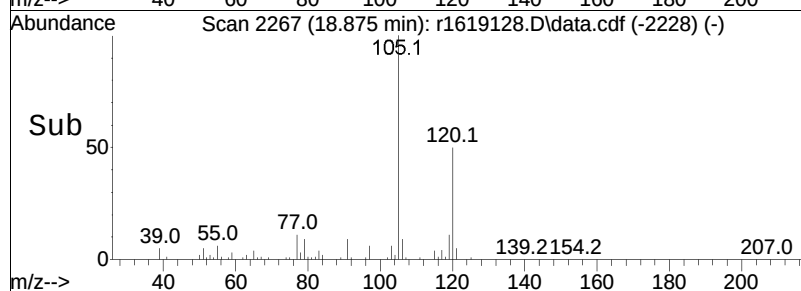
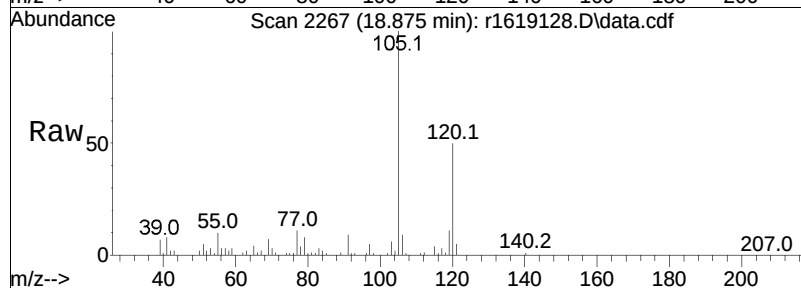
Tgt Ion:105 Resp: 319580

Ion Ratio Lower Upper

105 100

120 49.7 44.0 66.0

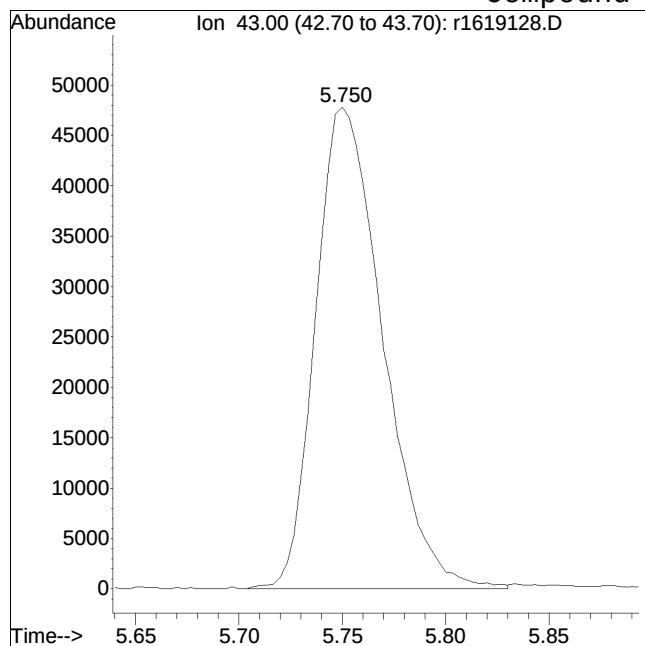
91 8.7 46.2 69.4#



Manual Integration Report

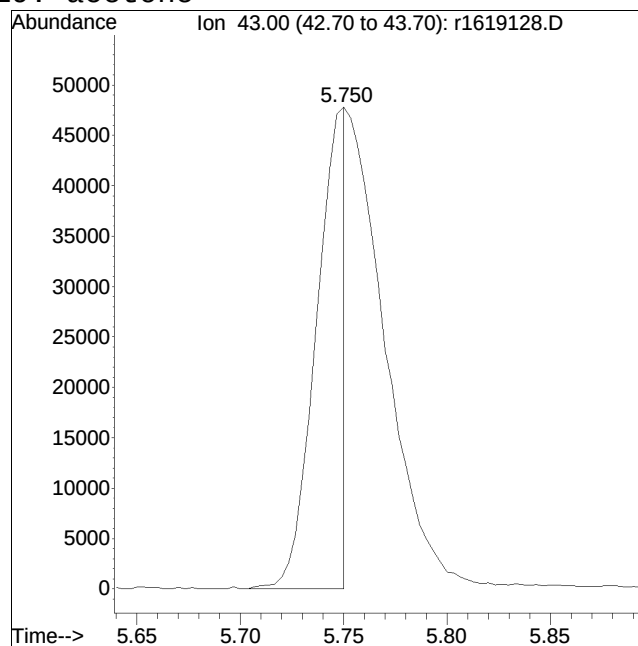
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619128.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:0: 0 Instrument :
Sample : L2037647-03,3,250,250 Quant Date : 9/17/2020 5:40 am

Compound #19: acetone



Original Peak Response = 108163

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

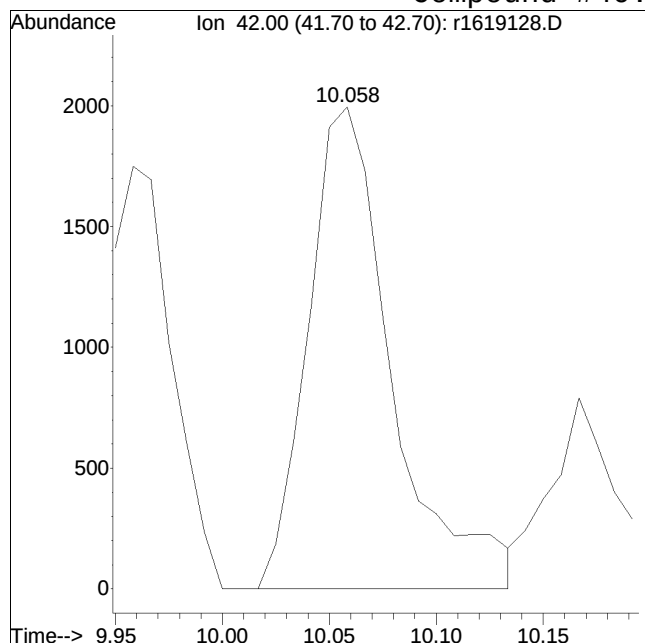


Manual Peak Response = 47297 M6

Manual Integration Report

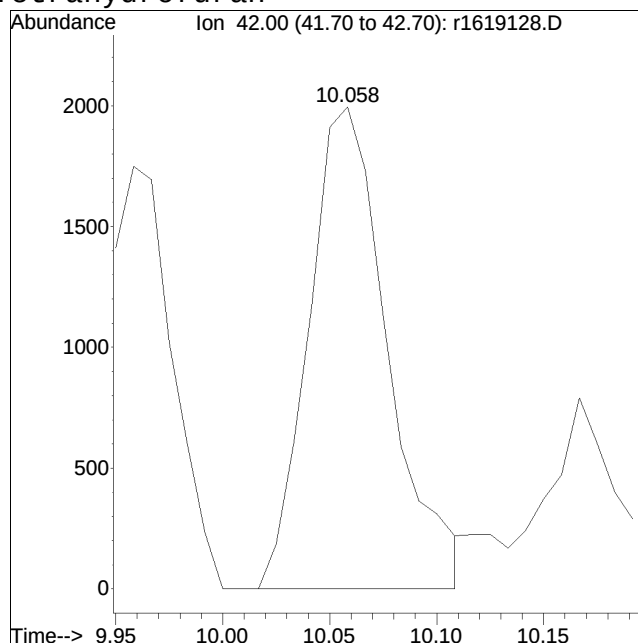
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619128.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:0: 0 Instrument :
Sample : L2037647-03,3,250,250 Quant Date : 9/17/2020 5:40 am

Compound #40: Tetrahydrofuran



Original Peak Response = 5422

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

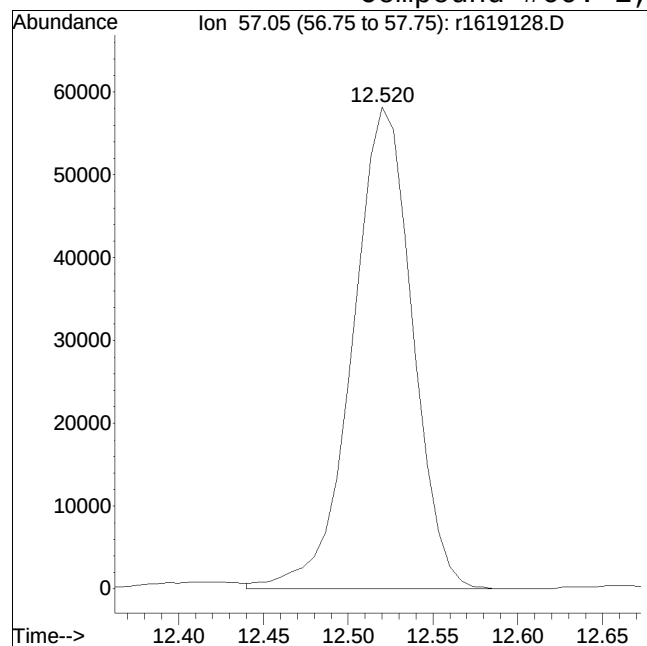


Manual Peak Response = 5112 M6

Manual Integration Report

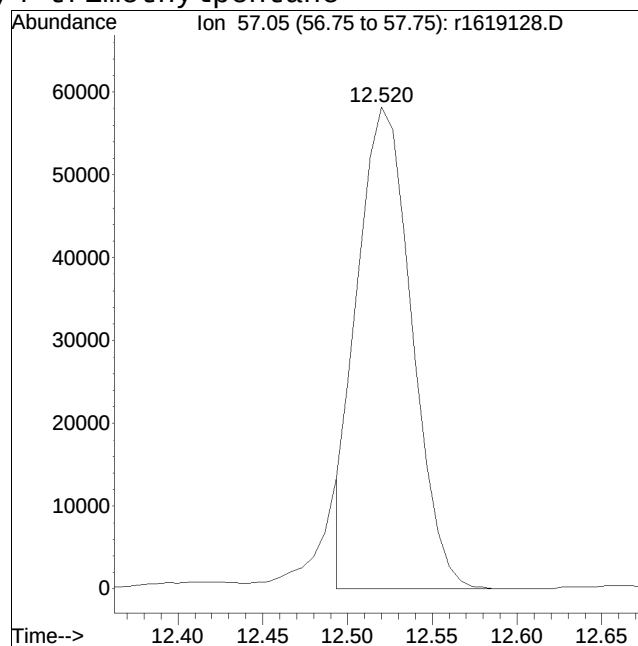
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619128.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:0: 0 Instrument :
Sample : L2037647-03,3,250,250 Quant Date : 9/17/2020 5:40 am

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 143067

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

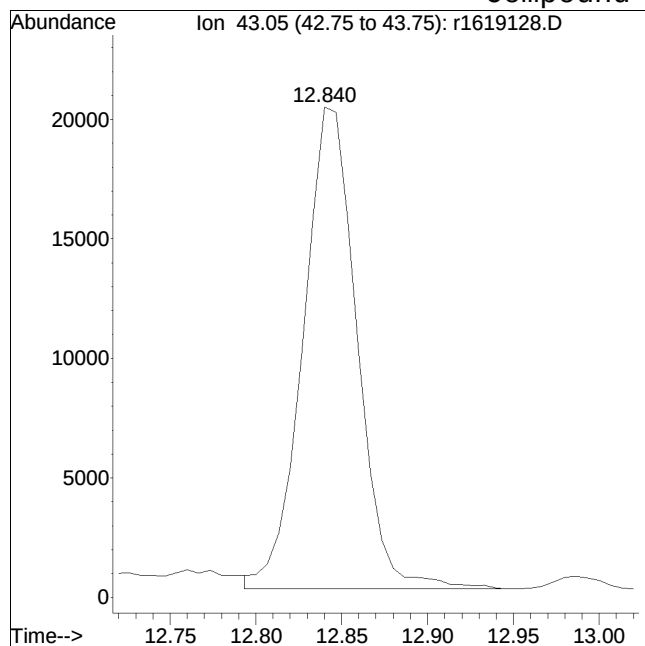


Manual Peak Response = 130302 M6

Manual Integration Report

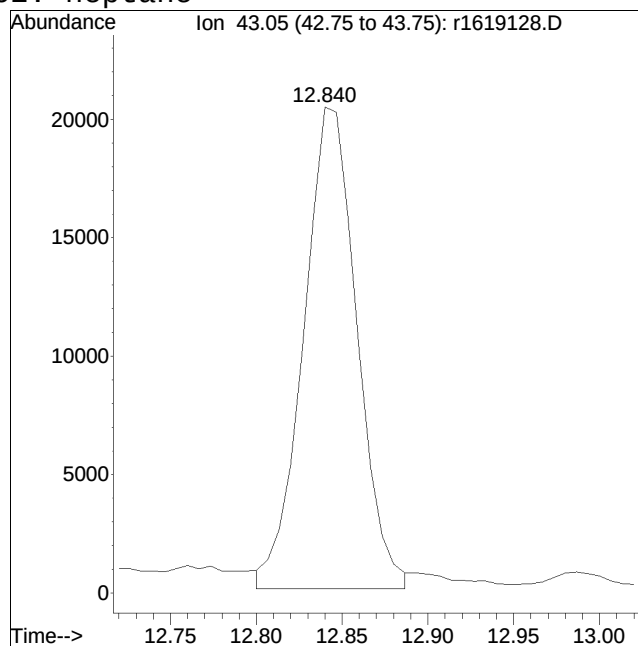
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619128.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:0: 0 Instrument :
Sample : L2037647-03,3,250,250 Quant Date : 9/17/2020 5:40 am

Compound #62: heptane



Original Peak Response = 44067

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 43998 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619129.D
 Acq On : 16 Sep 2020 10:50 PM
 Operator : AIRLAB16:TS
 Sample : L2037647-04,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:08:53 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.408	49	227850	10.000	ppbV	0.02
Standard Area = 289019			Recovery =		78.84%	
43) 1,4-difluorobenzene	11.680	114	794220	10.000	ppbV	0.01
Standard Area = 862875			Recovery =		92.04%	
67) chlorobenzene-D5	16.408	54	117923	10.000	ppbV	0.00
Standard Area = 122360			Recovery =		96.37%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.874	85	16402	0.759	ppbV	100
6) chloromethane	0.000		0	N.D.	d	
7) Freon-114	0.000		0	N.D.	d	
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.474	54	2229	0.207	ppbV	91
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.194	31	16277	1.992	ppbV	97
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.753	43	81089M6	4.102	ppbV	
21) trichlorofluoromethane	5.933	101	28025	1.600	ppbV	98
22) isopropyl alcohol	6.100	45	25995	1.039	ppbV	99
26) 1,1-dichloroethene	0.000		0	N.D.	d	
27) tertiary butyl alcohol	6.838	59	6844	0.376	ppbV #	91
28) methylene chloride	6.868	49	2491	0.156	ppbV	84
29) 3-chloropropene	6.988		0	N.D.		
30) carbon disulfide	7.150	76	689464	16.538	ppbV	96
31) Freon 113	7.186	101	1993	0.083	ppbV	90
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	8.725	43	141584	4.544	ppbV	99
37) cis-1,2-dichloroethene	9.217		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.575	83	370107	16.799	ppbV	99
40) Tetrahydrofuran	10.067	42	2511M6	0.114	ppbV	
42) 1,2-dichloroethane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619129.D
 Acq On : 16 Sep 2020 10:50 PM
 Operator : AIRLAB16:TS
 Sample : L2037647-04,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:08:53 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) hexane	9.483	57	24827	0.918	ppbV #	52
48) 1,1,1-trichloroethane	10.708	97	1182	0.050	ppbV #	85
50) benzene	11.233	78	42940	0.734	ppbV	98
52) carbon tetrachloride	11.413		0	N.D.		
53) cyclohexane	11.547	56	44376	1.516	ppbV	95
56) 1,2-dichloropropane	12.193		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.	d	
58) 1,4-dioxane	12.507		0	N.D.		
59) trichloroethene	12.473	130	7498	0.298	ppbV	94
60) 2,2,4-trimethylpentane	0.000		0	N.D.	d	
62) heptane	12.847	43	67335M6	1.460	ppbV	
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	0.000		0	N.D.	d	
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.	d	
68) toluene	14.633	91	184079	2.519	ppbV	100
72) 2-hexanone	14.942	43	116223M6	2.251	ppbV	
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
78) tetrachloroethene	15.800	166	251581	7.971	ppbV	93
80) chlorobenzene	0.000		0	N.D.	d	
81) ethylbenzene	16.800	91	132713	1.434	ppbV	98
83) m+p-xylene	16.950	91	261181	3.499	ppbV	95
84) bromoform	0.000		0	N.D.		
85) styrene	17.292	104	8684	0.138	ppbV #	85
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	d	
87) o-xylene	17.383	91	239272	3.187	ppbV	100
96) 4-ethyl toluene	0.000		0	N.D.	d	
97) 1,3,5-trimethylbenzene	18.533	105	208134	2.191	ppbV #	97
99) 1,2,4-trimethylbenzene	18.875	105	266456	2.982	ppbV #	73
101) Benzyl Chloride	0.000		0	N.D.	d	
102) 1,3-dichlorobenzene	19.008		0	N.D.		
103) 1,4-dichlorobenzene	19.067		0	N.D.		
107) 1,2-dichlorobenzene	19.350		0	N.D.		
115) 1,2,4-trichlorobenzene	20.875		0	N.D.		
119) hexachlorobutadiene	21.300		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619129.D
 Acq On : 16 Sep 2020 10:50 PM
 Operator : AIRLAB16:TS
 Sample : L2037647-04,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

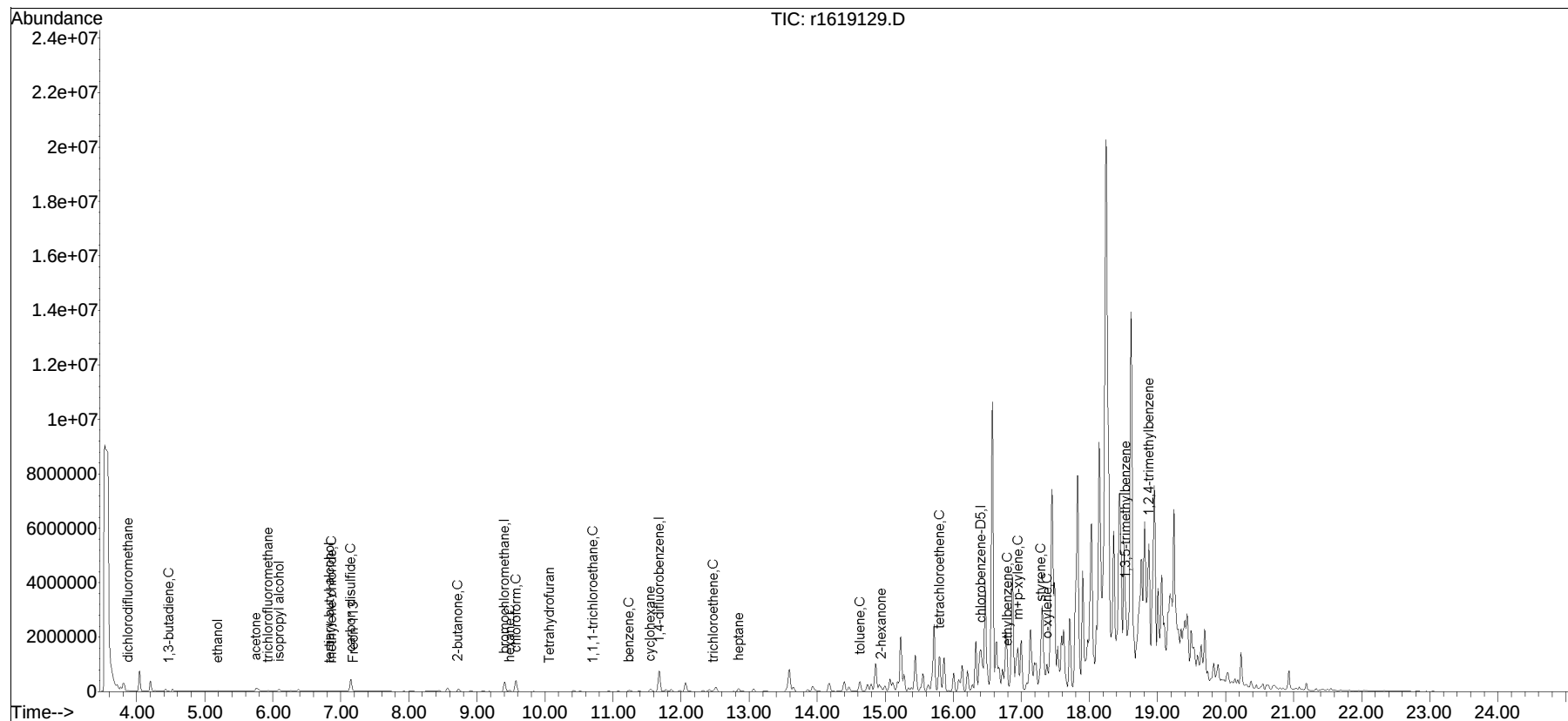
Quant Time: Sep 17 08:08:53 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

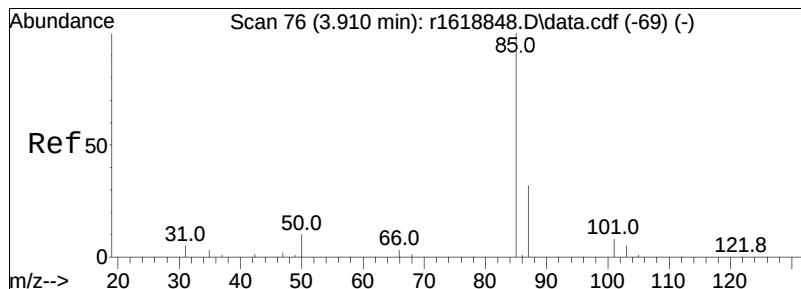
CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

```
Data Path   : 0:\Forensics\Data\AirLab16\2020\09\200916T\  
Data File  : r1619129.D  
Acq On     : 16 Sep 2020   10:50 PM  
Operator   : AIRLAB16:TS  
Sample     : L2037647-04,3,250,250  
Misc       : WG1410723,ICAL17102  
ALS Vial   : 0      Sample Multiplier: 1
```

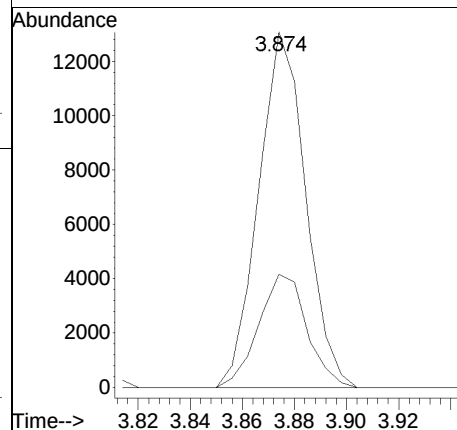
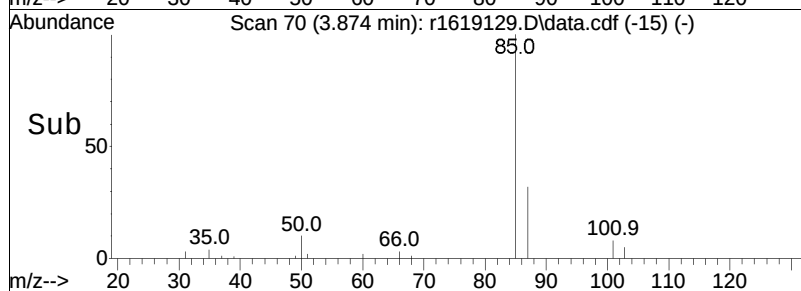
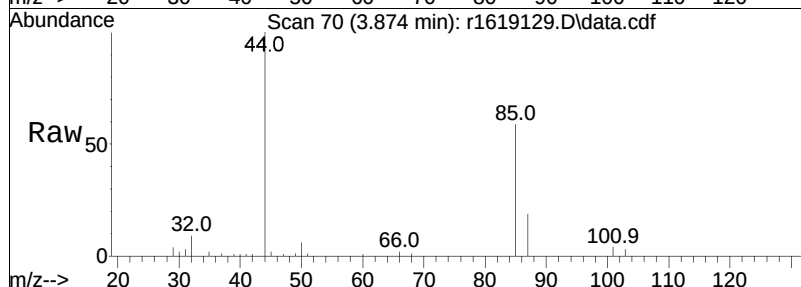
Quant Time: Sep 17 08:08:53 2020
Quant Method : 0:\Forensics\Data\AirLab16\2020\09\200916T\TFS16_200902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Sep 16 13:18:40 2020
Response via : Initial Calibration

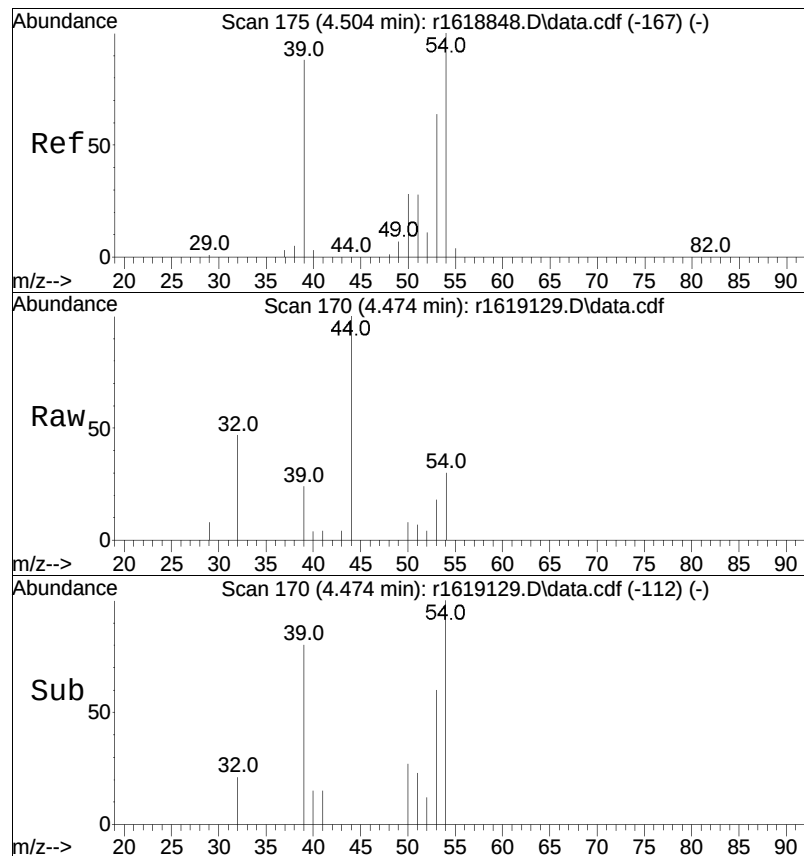




#5
 dichlorodifluoromethane
 Concen: 0.76 ppbV
 RT: 3.874 min Scan# 70
 Delta R.T. 0.000 min
 Lab File: r1619129.D
 Acq: 16 Sep 2020 10:50 PM

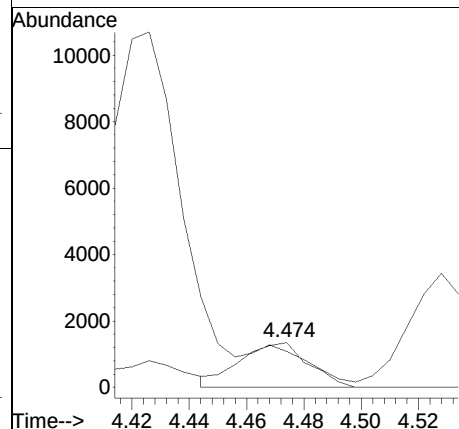
Tgt Ion: 85 Resp: 16402
 Ion Ratio Lower Upper
 85 100
 87 31.8 25.4 38.2

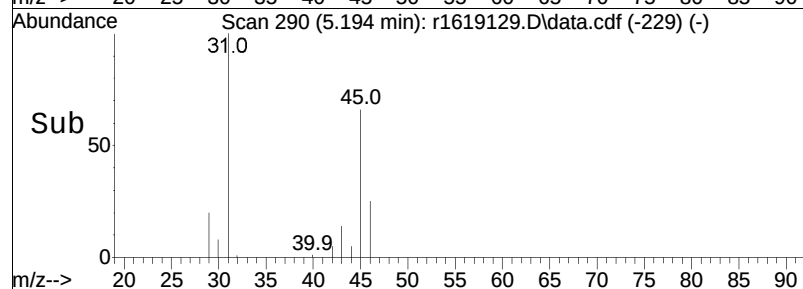
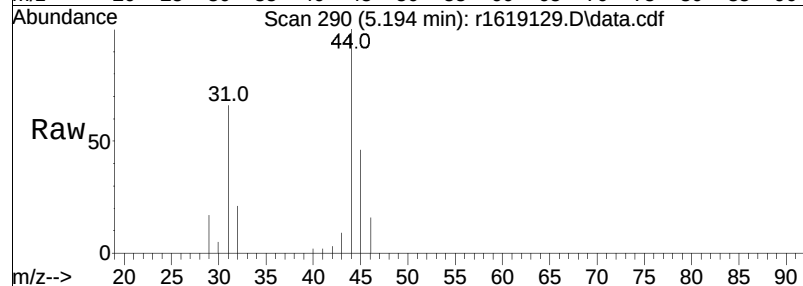
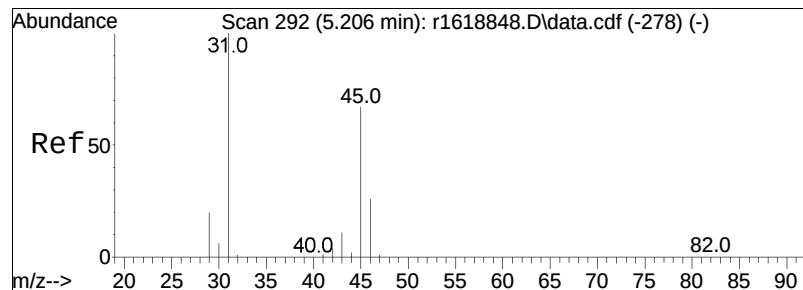




#10
 1,3-butadiene
 Concen: 0.21 ppbV
 RT: 4.474 min Scan# 170
 Delta R.T. 0.018 min
 Lab File: r1619129.D
 Acq: 16 Sep 2020 10:50 PM

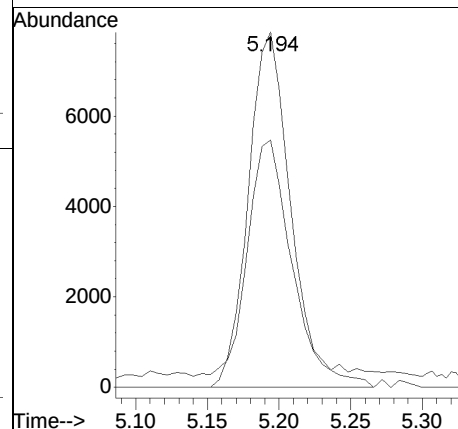
Tgt Ion	Ratio	Lower	Upper
54	100		
39	80.2	70.9	106.3

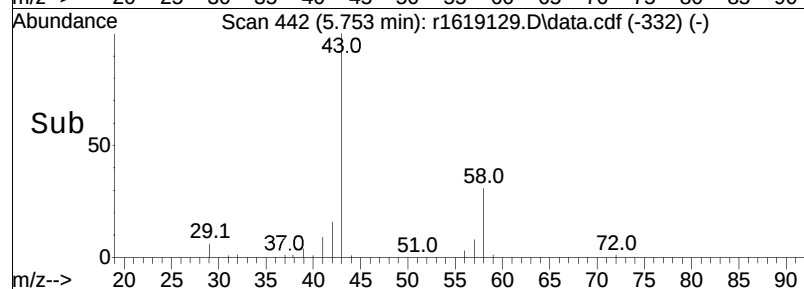
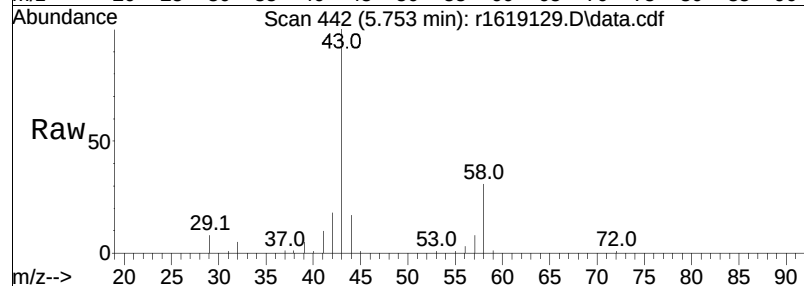
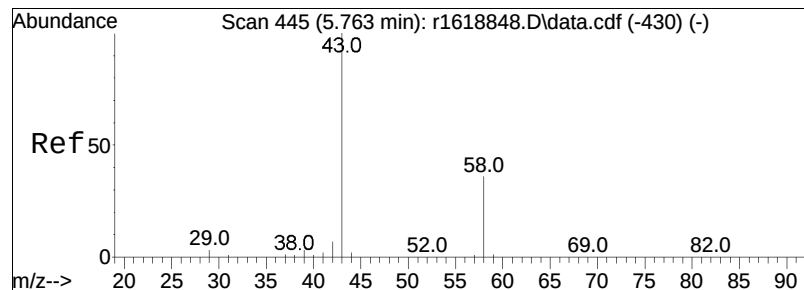




#15
ethanol
Concen: 1.99 ppbV
RT: 5.194 min Scan# 290
Delta R.T. 0.036 min
Lab File: r1619129.D
Acq: 16 Sep 2020 10:50 PM

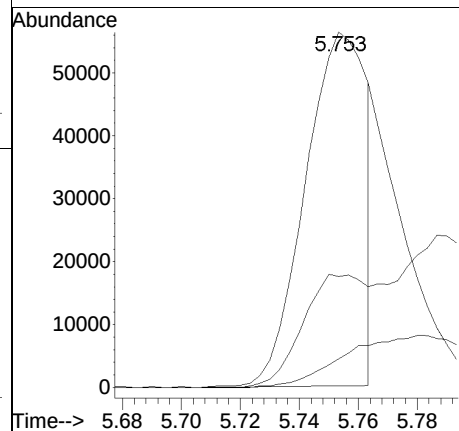
Tgt	Ion	Resp	Lower	Upper
31	100	16277		
45	69.6		54.0	81.0

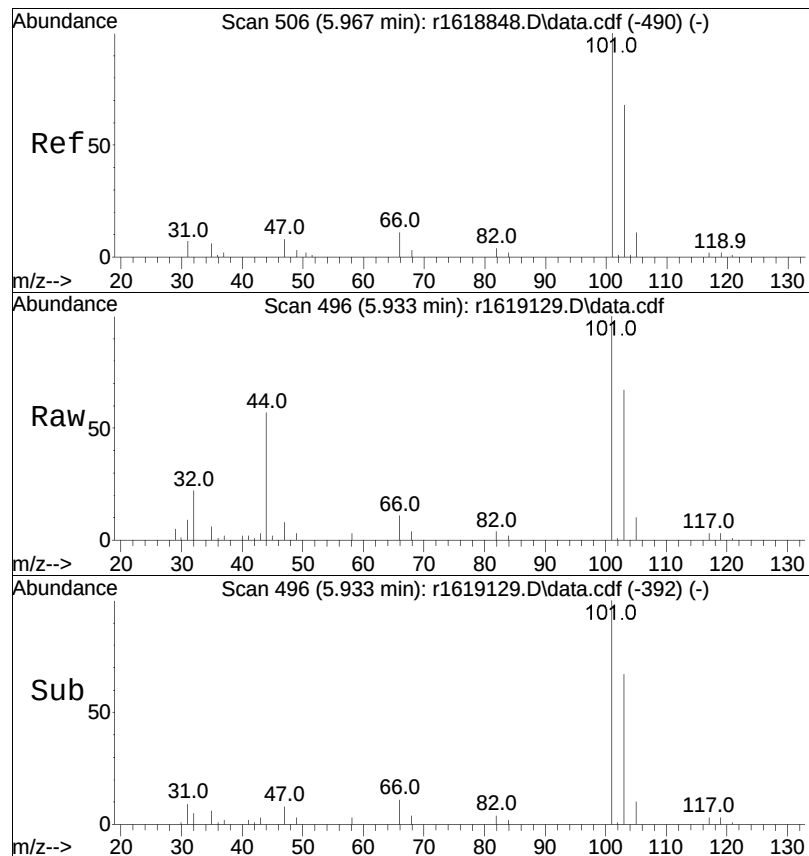




#19
acetone
Concen: 4.10 ppbV m
RT: 5.753 min Scan# 442
Delta R.T. 0.037 min
Lab File: r1619129.D
Acq: 16 Sep 2020 10:50 PM

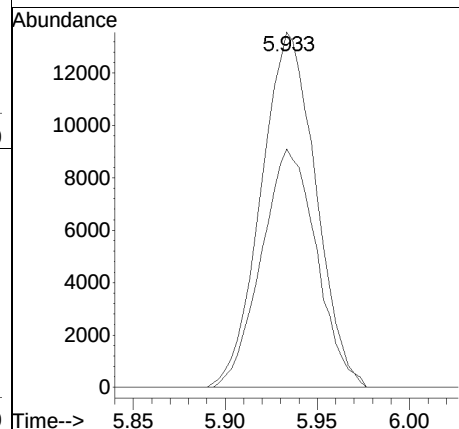
Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.2	28.9	43.3
57	8.1	0.7	1.1#

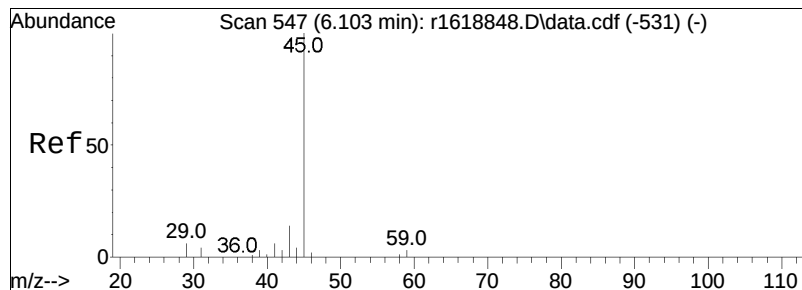




#21
 trichlorofluoromethane
 Concen: 1.60 ppbV
 RT: 5.933 min Scan# 496
 Delta R.T. 0.017 min
 Lab File: r1619129.D
 Acq: 16 Sep 2020 10:50 PM

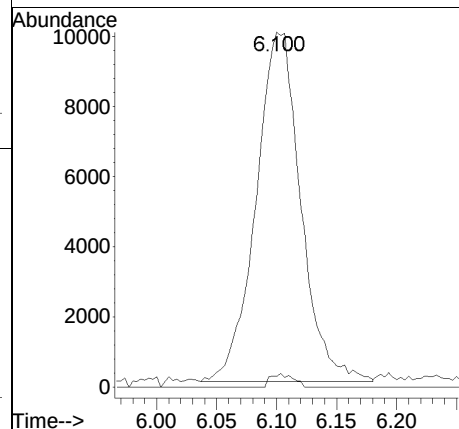
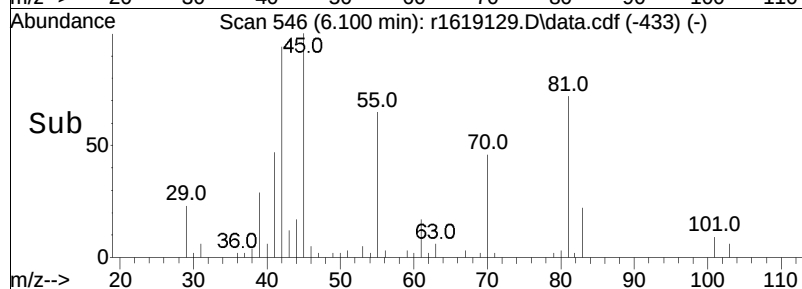
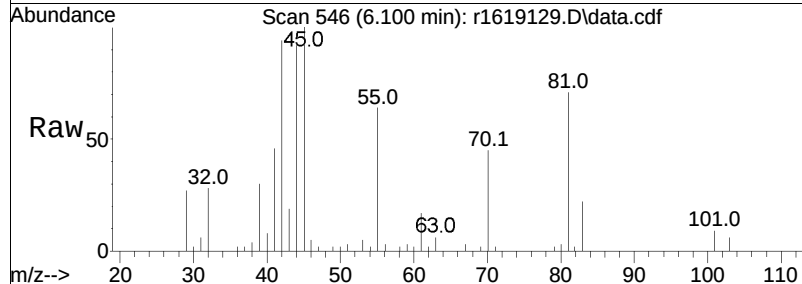
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	67.0	54.6	54.6	82.0

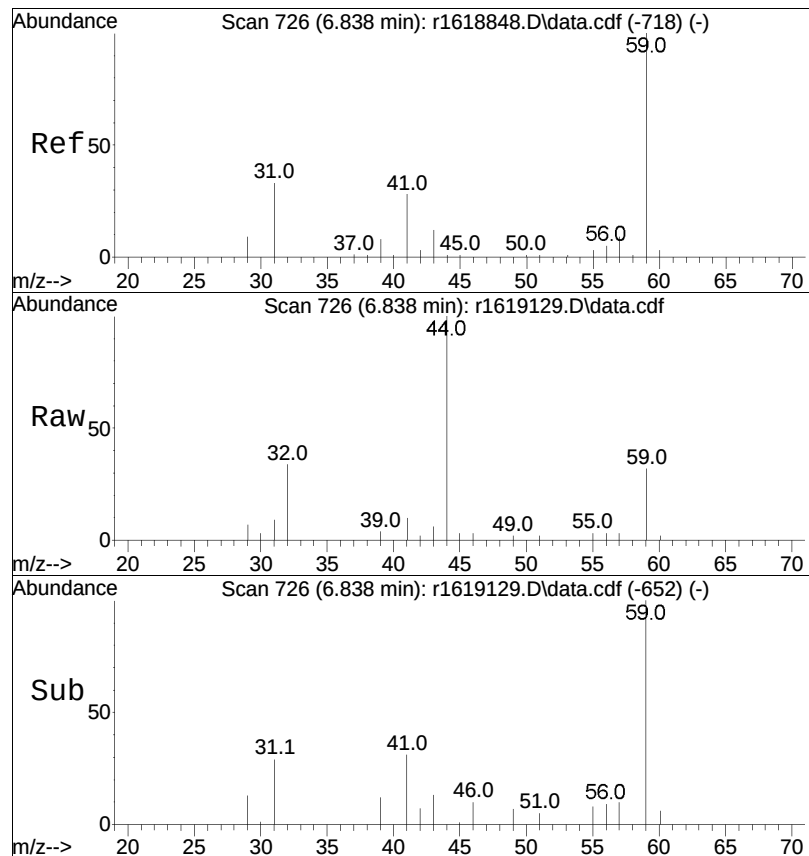




#22
isopropyl alcohol
Concen: 1.04 ppbV
RT: 6.100 min Scan# 546
Delta R.T. 0.047 min
Lab File: r1619129.D
Acq: 16 Sep 2020 10:50 PM

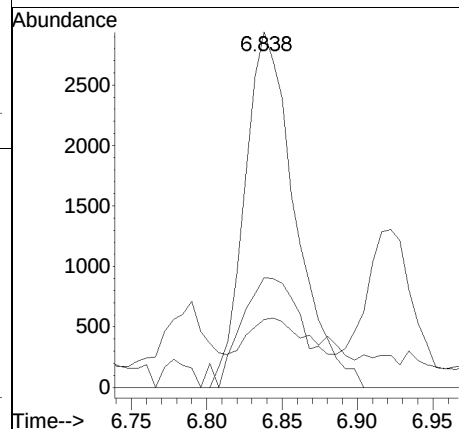
Tgt Ion	Ratio	Lower	Upper
45	100		
59	3.1	2.7	4.1

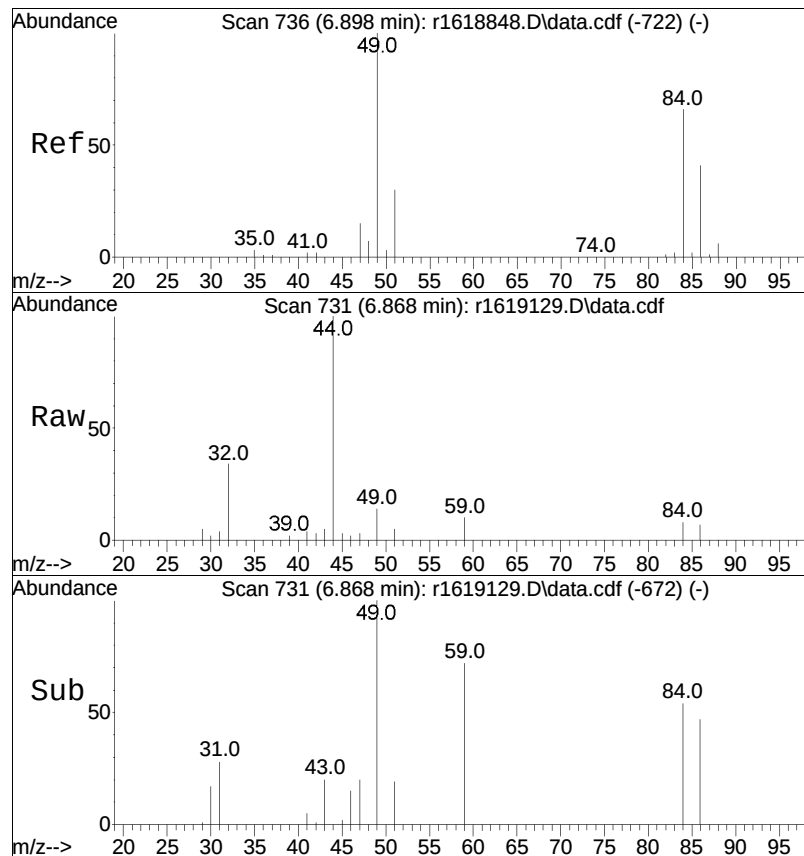




#27
 tertiary butyl alcohol
 Concen: 0.38 ppbV
 RT: 6.838 min Scan# 726
 Delta R.T. 0.054 min
 Lab File: r1619129.D
 Acq: 16 Sep 2020 10:50 PM

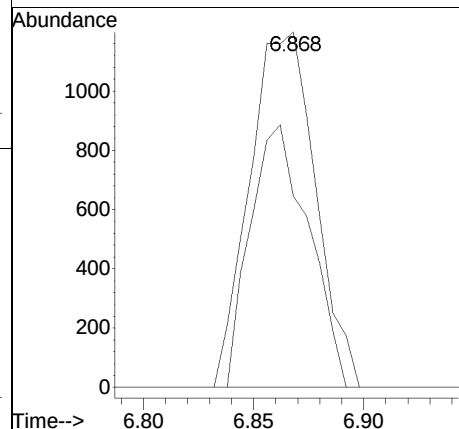
Tgt Ion:	59	Resp:	6844
Ion Ratio	Lower	Upper	
59	100		
41	30.9	22.4	33.6
43	19.1	10.2	15.2#

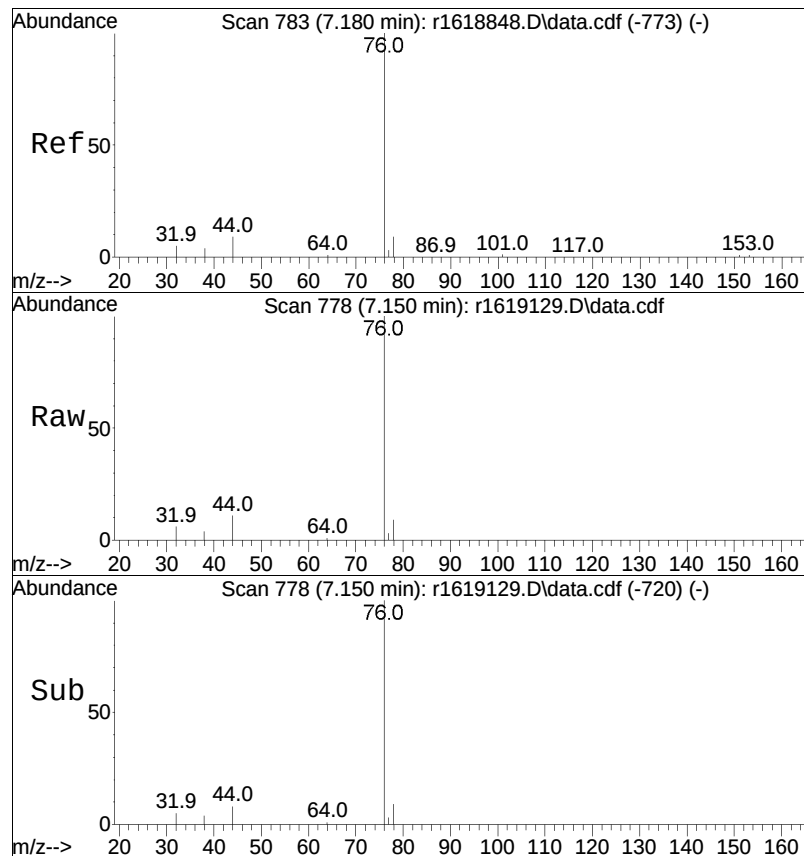




#28
 methylene chloride
 Concen: 0.16 ppbV
 RT: 6.868 min Scan# 731
 Delta R.T. 0.018 min
 Lab File: r1619129.D
 Acq: 16 Sep 2020 10:50 PM

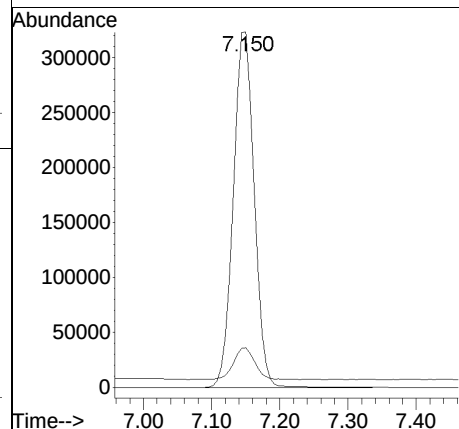
Tgt Ion:	49	Resp:	2491
Ion Ratio	Lower	Upper	
49	100		
84	53.8	53.2	79.8

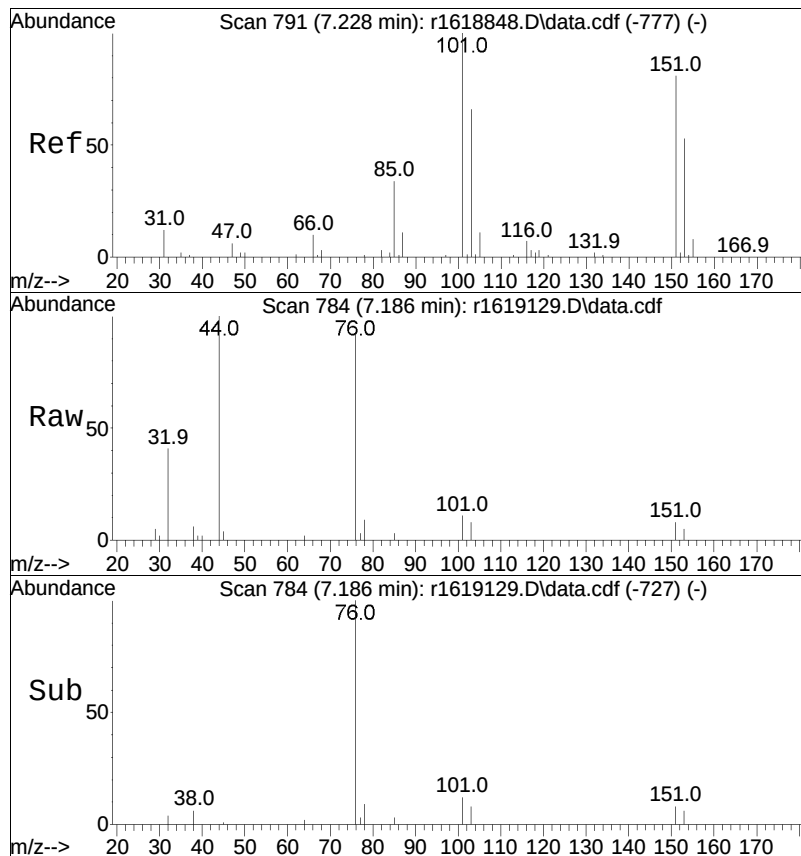




#30
 carbon disulfide
 Concen: 16.54 ppbV
 RT: 7.150 min Scan# 778
 Delta R.T. 0.018 min
 Lab File: r1619129.D
 Acq: 16 Sep 2020 10:50 PM

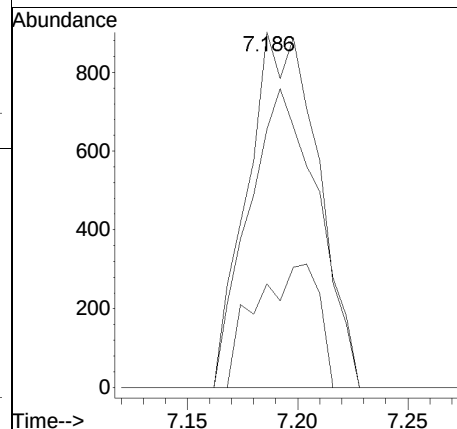
Tgt Ion	Ratio	Lower	Upper
76	100		
44	11.2	7.7	11.5

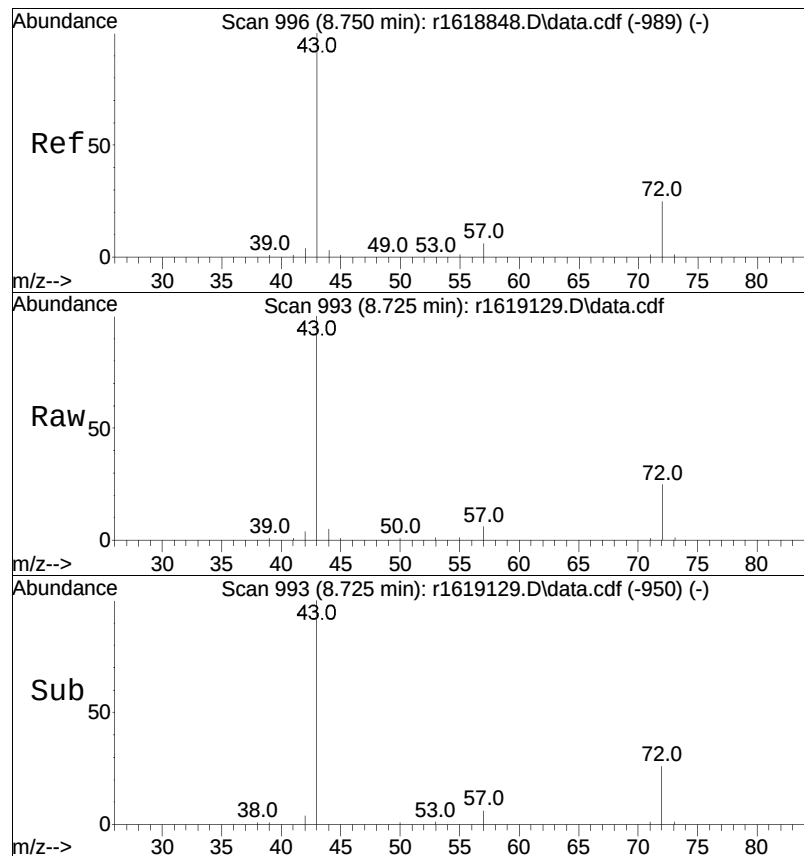




#31
 Freon 113
 Concen: 0.08 ppbV
 RT: 7.186 min Scan# 784
 Delta R.T. 0.012 min
 Lab File: r1619129.D
 Acq: 16 Sep 2020 10:50 PM

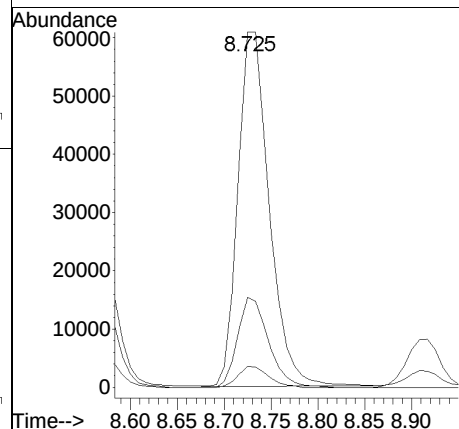
Tgt Ion:	101	Resp:	1993
Ion Ratio	Lower	Upper	
101	100		
85	29.2	27.5	41.3
151	72.6	65.1	97.7

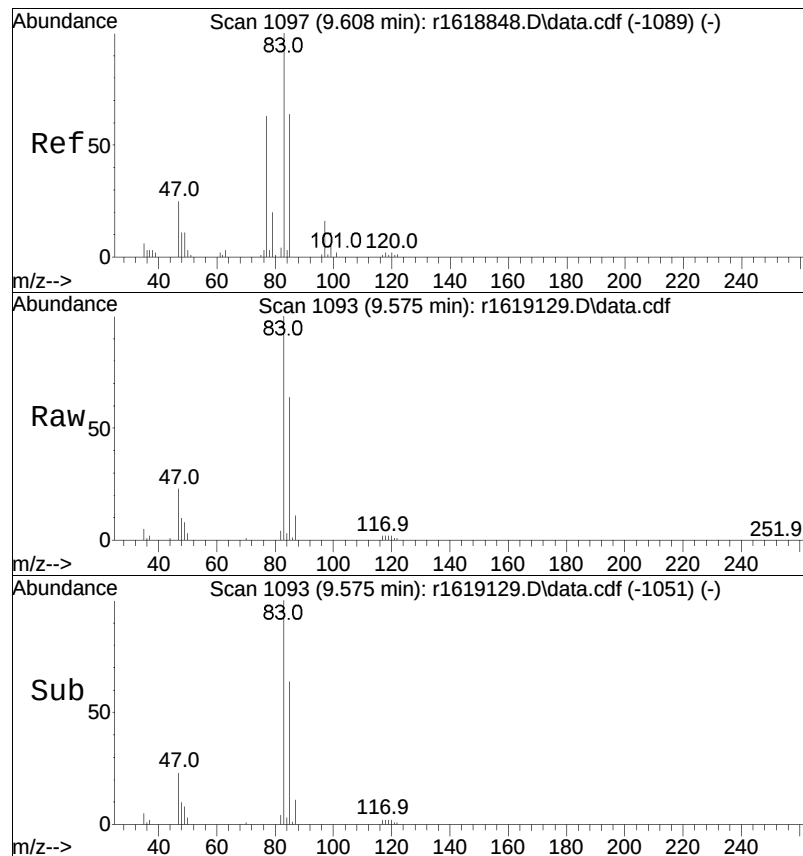




#36
 2-butanone
 Concen: 4.54 ppbV
 RT: 8.725 min Scan# 993
 Delta R.T. 0.025 min
 Lab File: r1619129.D
 Acq: 16 Sep 2020 10:50 PM

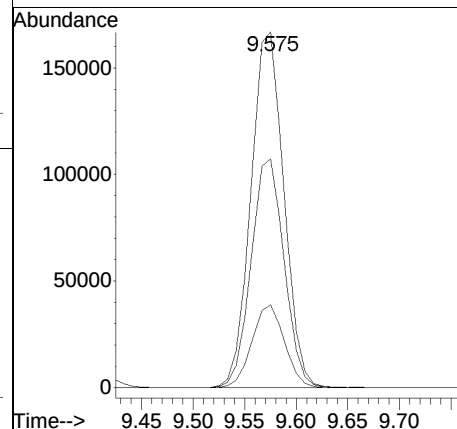
Tgt Ion:	43	Resp:	141584
Ion Ratio	Lower	Upper	
43	100		
72	25.4	19.8	29.6
57	5.9	4.6	6.8

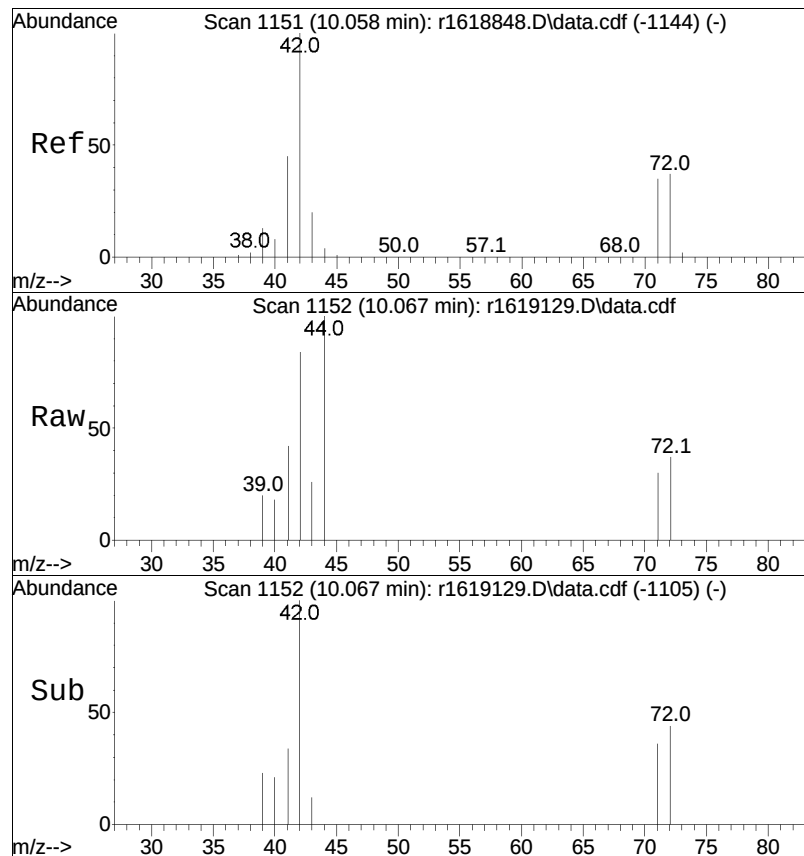




#39
 chloroform
 Concen: 16.80 ppbV
 RT: 9.575 min Scan# 1093
 Delta R.T. 0.017 min
 Lab File: r1619129.D
 Acq: 16 Sep 2020 10:50 PM

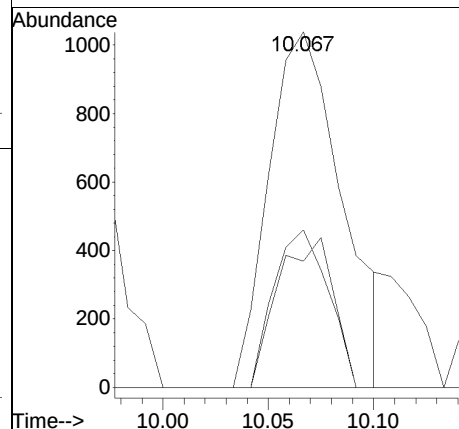
Tgt	Ion: 83	Resp:	370107
Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.5	77.3
47	23.3	20.1	30.1

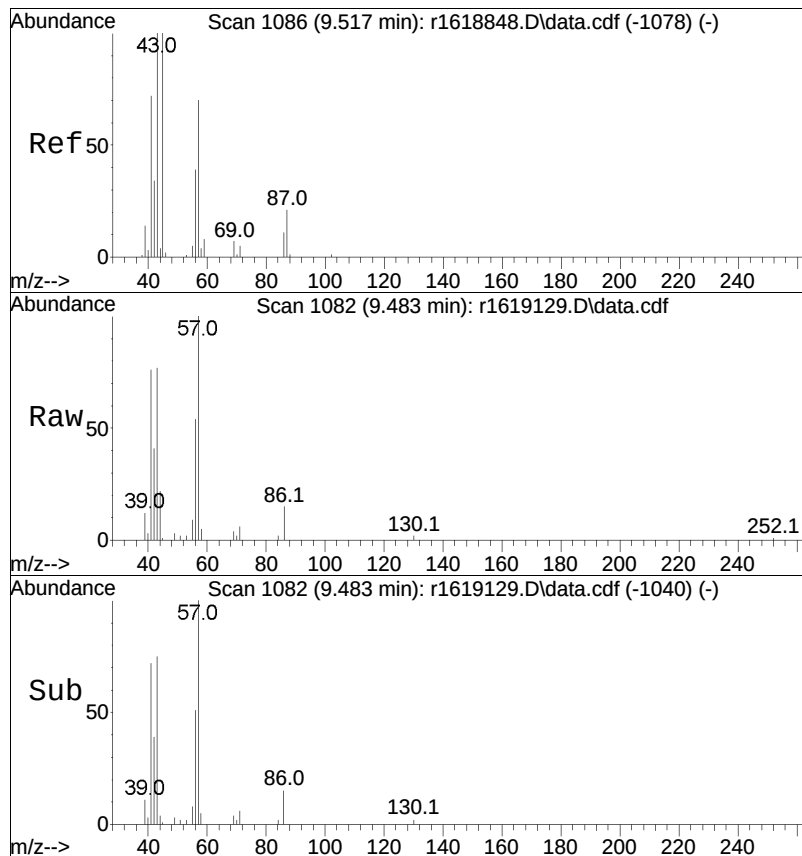




#40
Tetrahydrofuran
Concen: 0.11 ppbV m
RT: 10.067 min Scan# 1152
Delta R.T. 0.058 min
Lab File: r1619129.D
Acq: 16 Sep 2020 10:50 PM

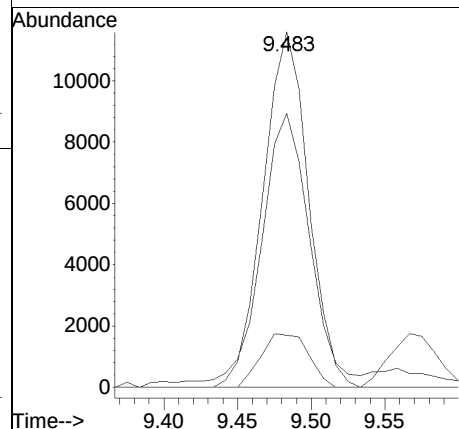
Tgt Ion:	42	Resp:	2511
Ion Ratio	Lower	Upper	
42	100		
71	35.5	28.2	42.2
72	44.3	29.9	44.9

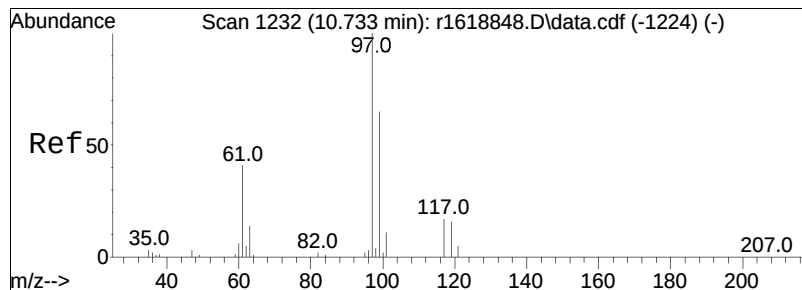




#44
hexane
Concen: 0.92 ppbV
RT: 9.483 min Scan# 1082
Delta R.T. 0.017 min
Lab File: r1619129.D
Acq: 16 Sep 2020 10:50 PM

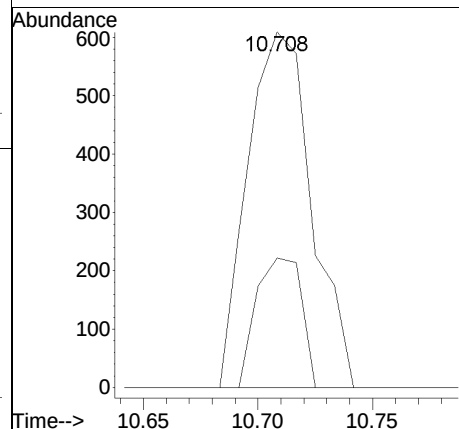
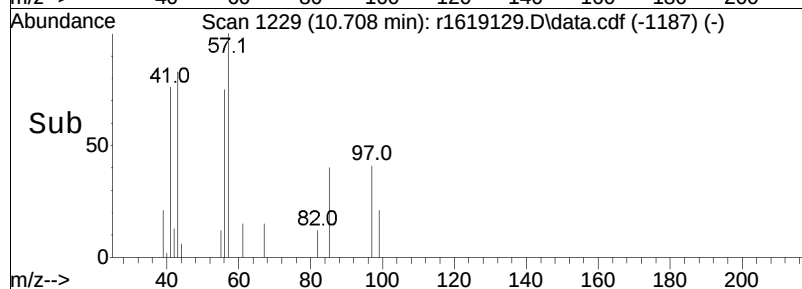
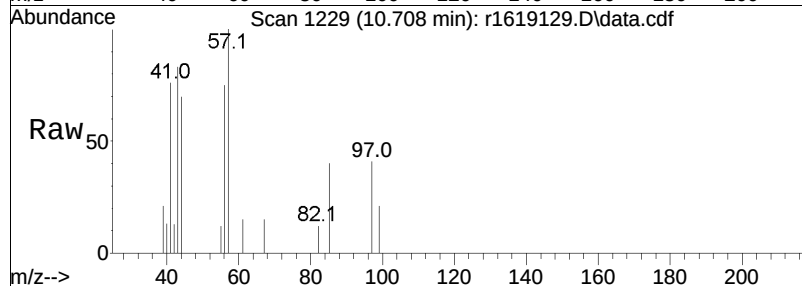
Tgt Ion	Ratio	Lower	Upper
57	100		
43	77.1	114.4	171.6#
86	14.7	12.6	18.8

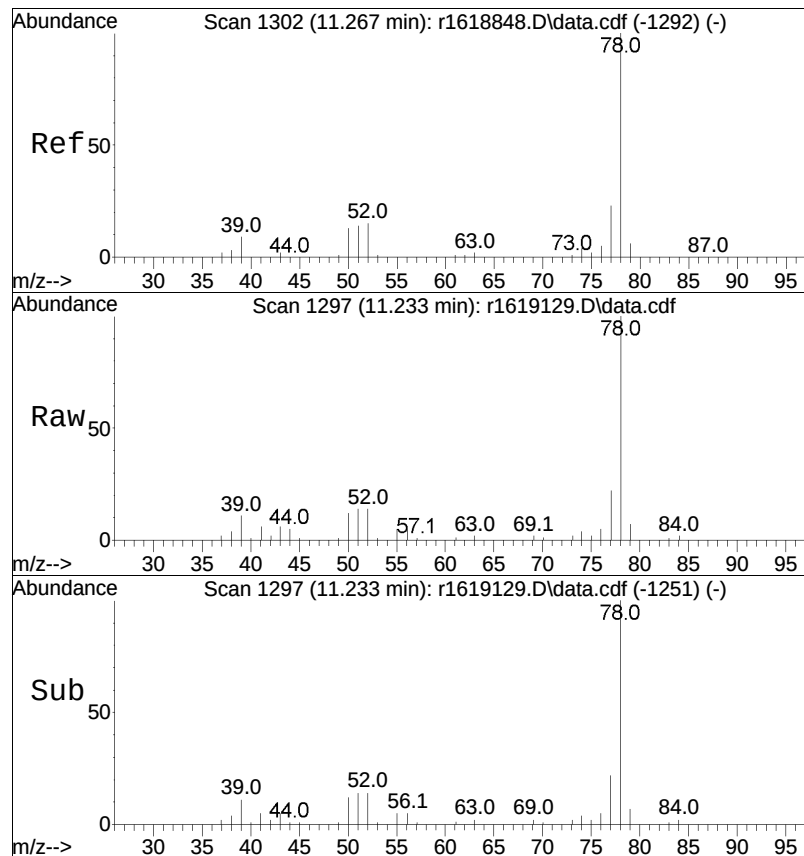




#48
 1,1,1-trichloroethane
 Concen: 0.05 ppbV
 RT: 10.708 min Scan# 1229
 Delta R.T. 0.017 min
 Lab File: r1619129.D
 Acq: 16 Sep 2020 10:50 PM

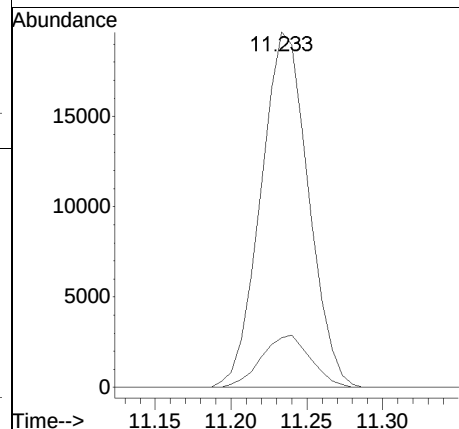
Tgt Ion	Ratio	Lower	Upper
97	100		
61	36.5	32.5	48.7
119	0.0	12.6	19.0#

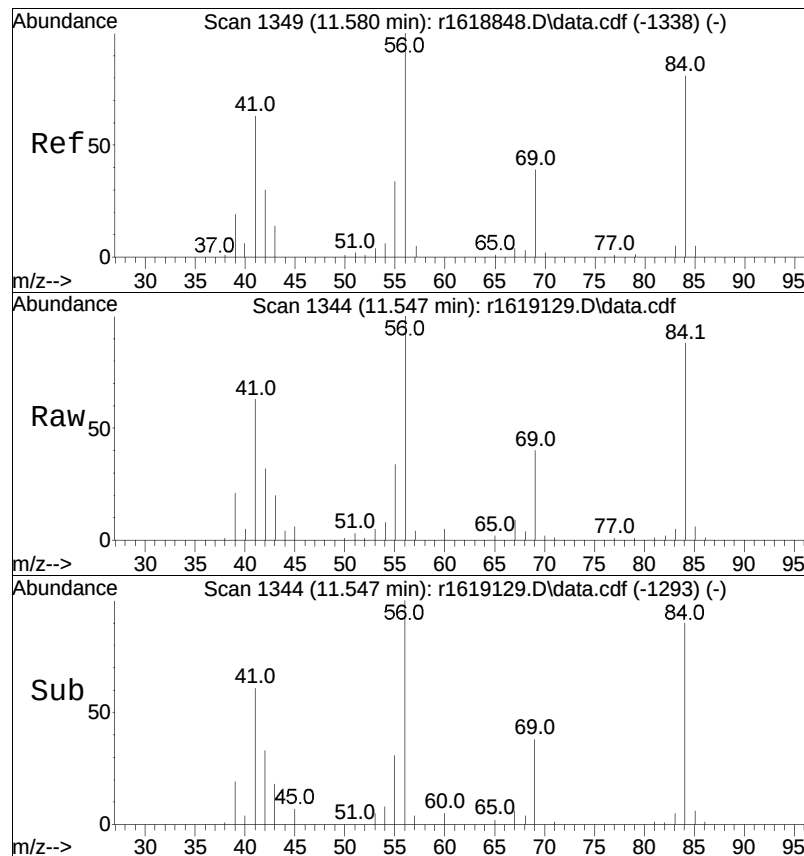




#50
benzene
Concen: 0.73 ppbV
RT: 11.233 min Scan# 1297
Delta R.T. 0.013 min
Lab File: r1619129.D
Acq: 16 Sep 2020 10:50 PM

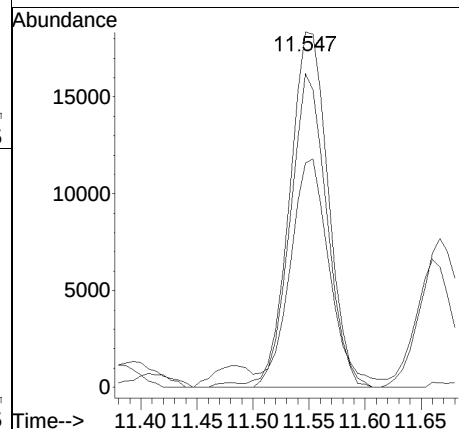
Tgt Ion	Ratio	Lower	Upper
78	100		
52	14.0	11.8	17.6

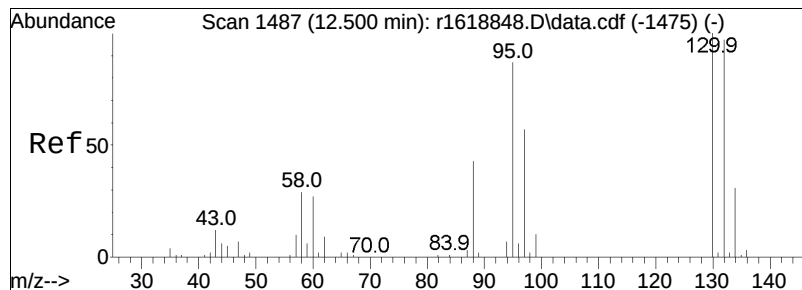




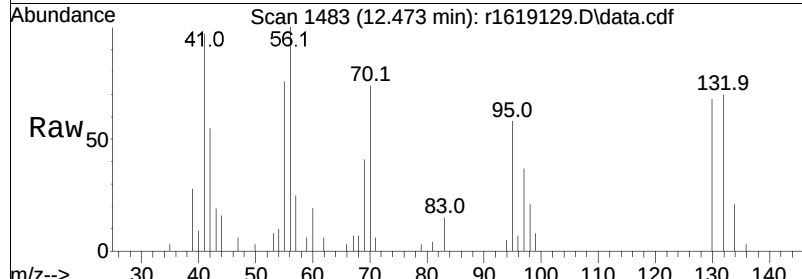
#53
cyclohexane
Concen: 1.52 ppbV
RT: 11.547 min Scan# 1344
Delta R.T. 0.013 min
Lab File: r1619129.D
Acq: 16 Sep 2020 10:50 PM

Tgt	Ion: 56	Resp:	44376
Ion	Ratio	Lower	Upper
56	100		
84	88.3	64.6	96.8
41	63.1	50.5	75.7

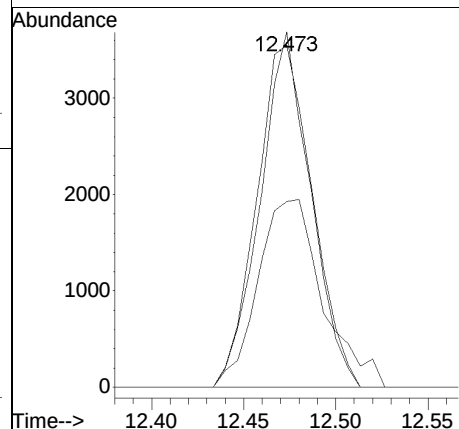
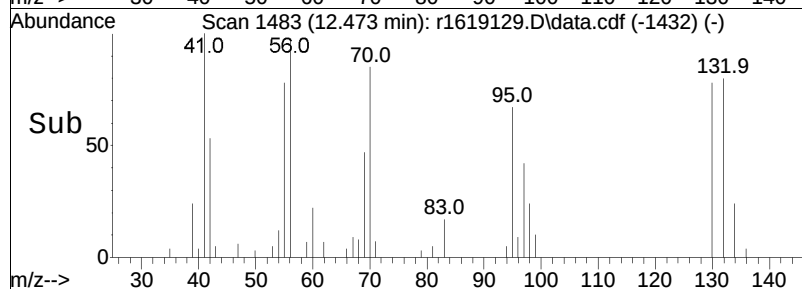


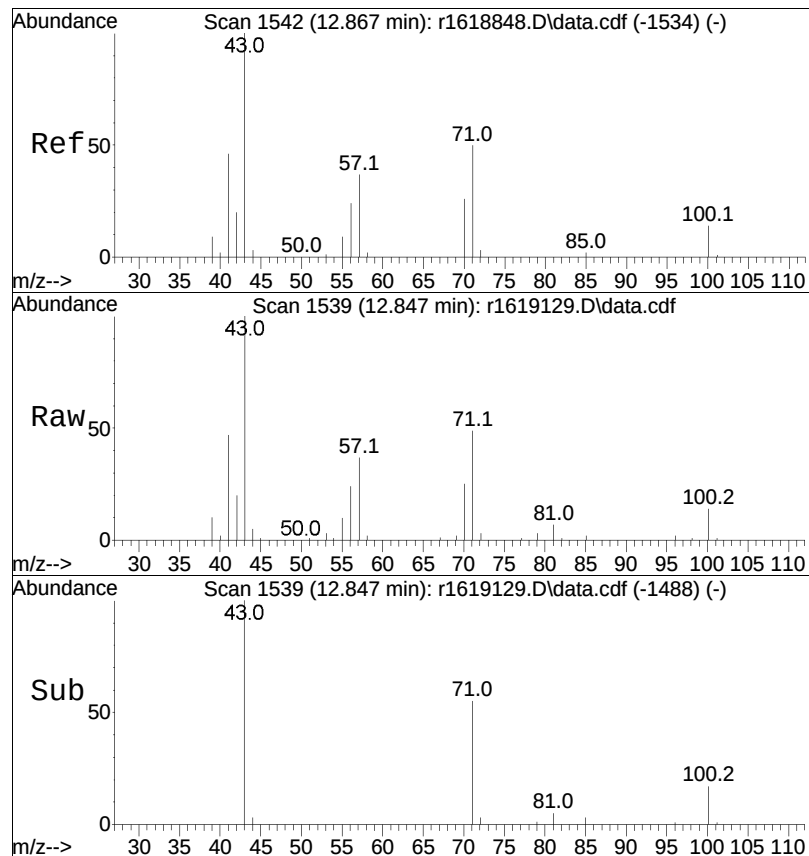


#59
 trichloroethene
 Concen: 0.30 ppbV
 RT: 12.473 min Scan# 1483
 Delta R.T. 0.013 min
 Lab File: r1619129.D
 Acq: 16 Sep 2020 10:50 PM



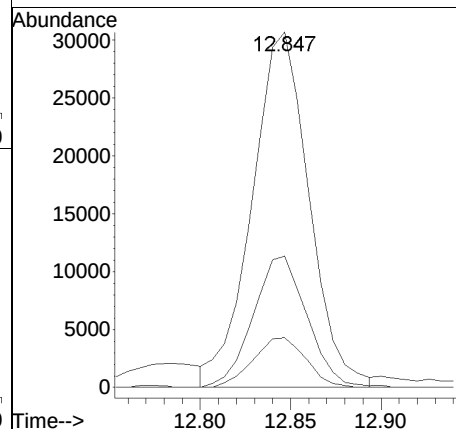
Tgt Ion	Ratio	Lower	Upper
130	100		
132	103.8	77.4	116.2
97	54.3	45.5	68.3

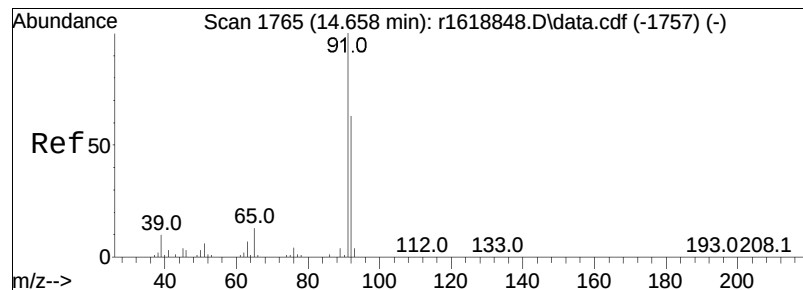




#62
heptane
Concen: 1.46 ppbV m
RT: 12.847 min Scan# 1539
Delta R.T. 0.013 min
Lab File: r1619129.D
Acq: 16 Sep 2020 10:50 PM

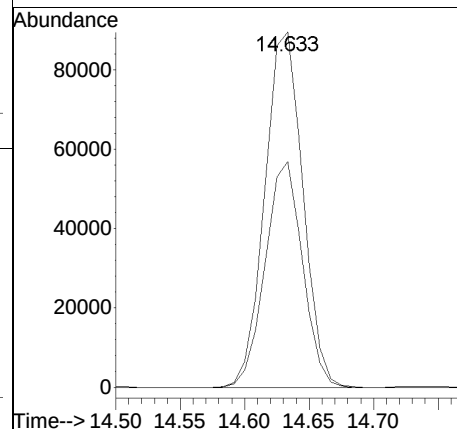
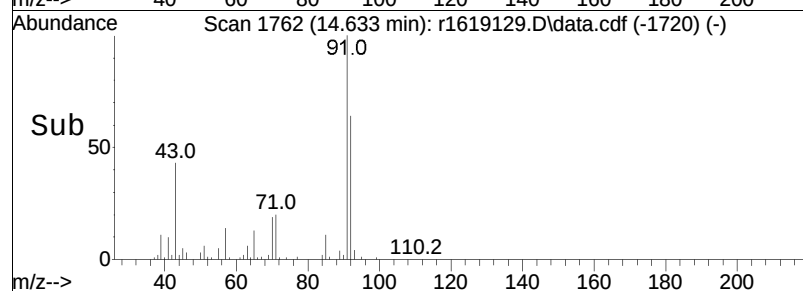
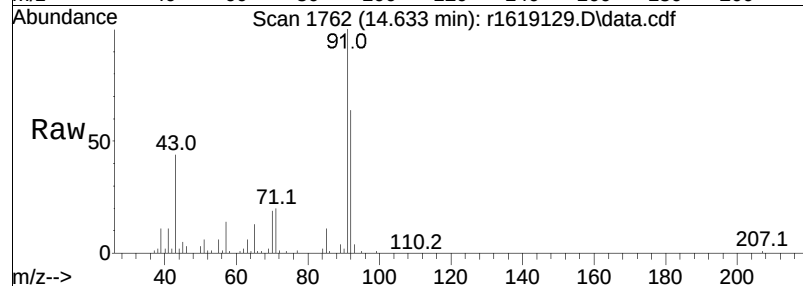
Tgt	Ion	Ratio	Lower	Upper
43	100			
57	36.9	29.9	44.9	
100	14.0	11.5	17.3	

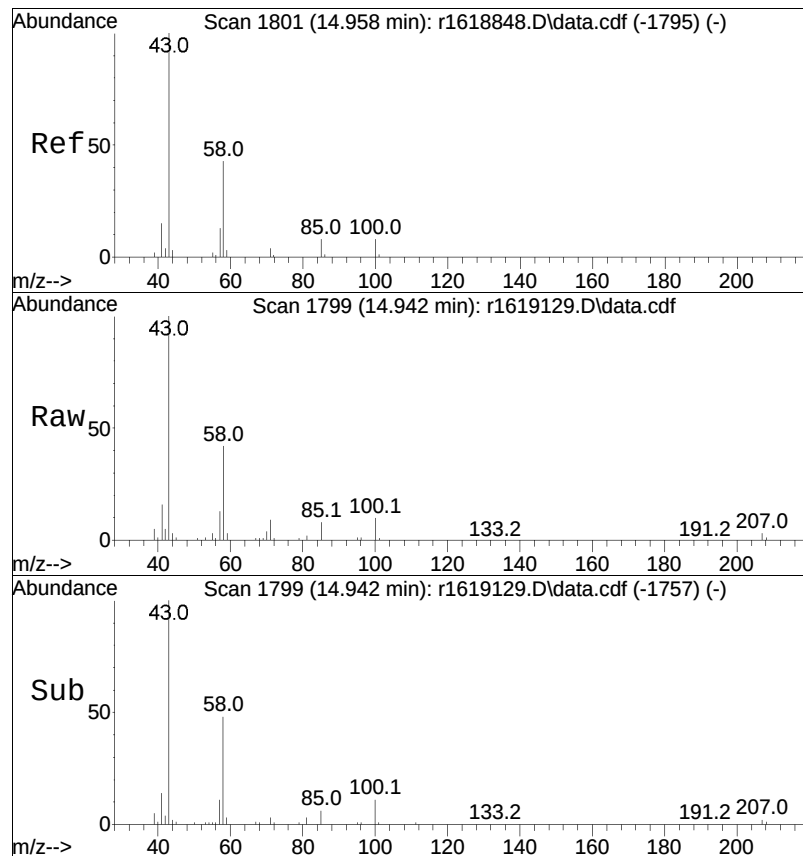




#68
toluene
Concen: 2.52 ppbV
RT: 14.633 min Scan# 1762
Delta R.T. 0.017 min
Lab File: r1619129.D
Acq: 16 Sep 2020 10:50 PM

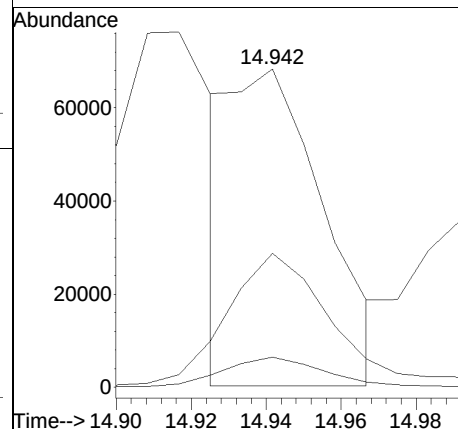
Tgt	Ion	Resp	Lower	Upper
91	100	184079		
92	63.5	50.6	75.8	

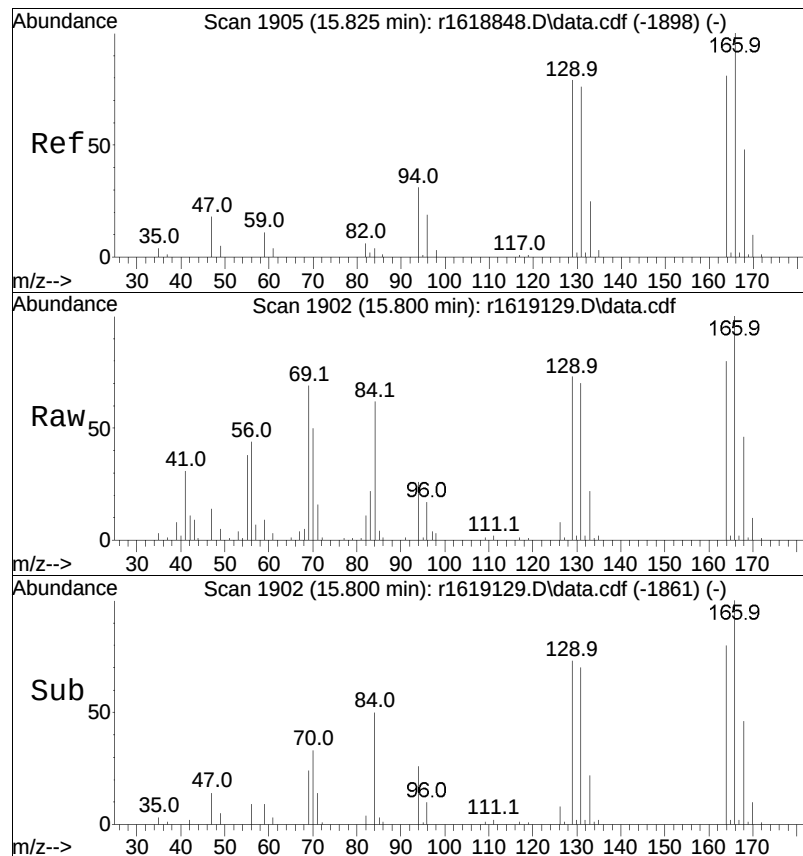




#72
 2-hexanone
 Concen: 2.25 ppbV m
 RT: 14.942 min Scan# 1799
 Delta R.T. 0.017 min
 Lab File: r1619129.D
 Acq: 16 Sep 2020 10:50 PM

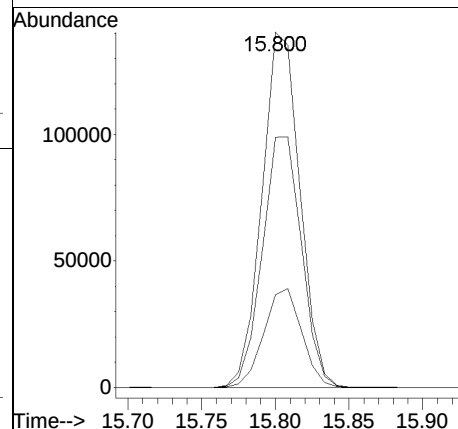
Tgt Ion:	43	58	100	Resp:	116223
Ion Ratio	100	42.1	9.5	Lower	Upper
		35.8	8.0		

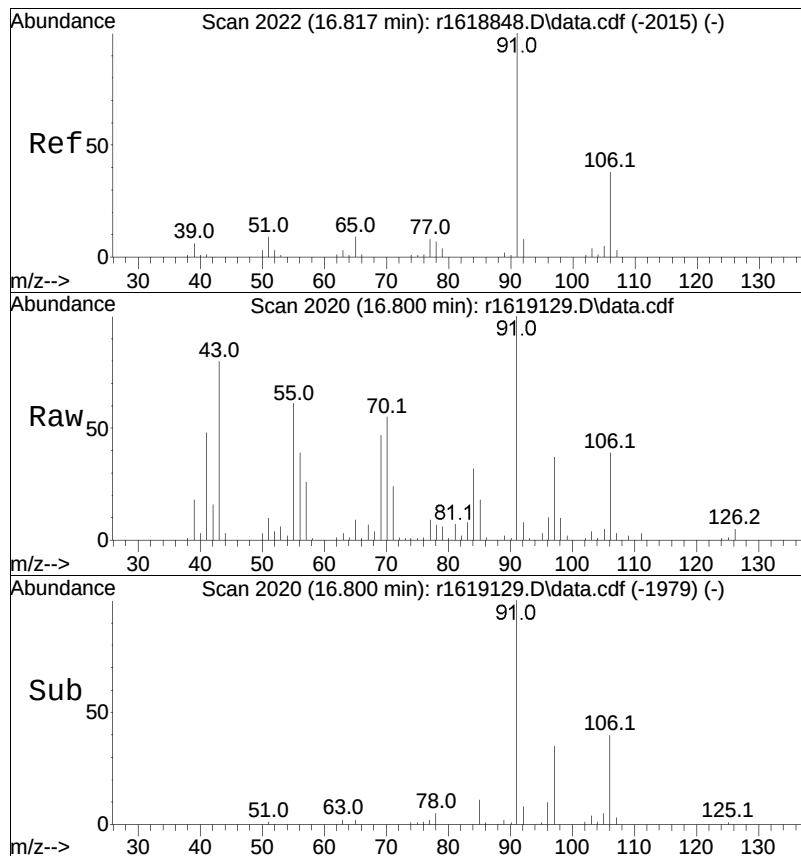




#78
 tetrachloroethene
 Concen: 7.97 ppbV
 RT: 15.800 min Scan# 1902
 Delta R.T. 0.008 min
 Lab File: r1619129.D
 Acq: 16 Sep 2020 10:50 PM

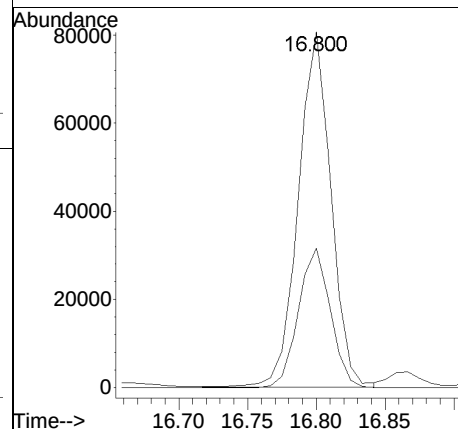
Tgt	Ion:166	Resp:	251581
Ion	Ratio	Lower	Upper
166	100		
131	70.4	61.0	91.6
94	26.1	24.6	37.0

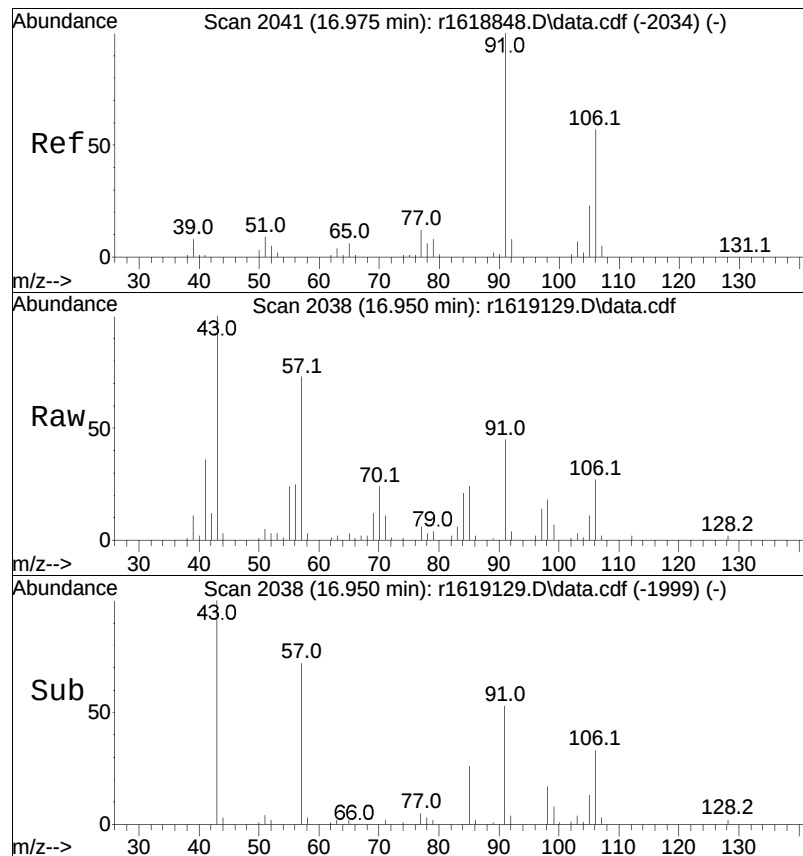




#81
ethylbenzene
Concen: 1.43 ppbV
RT: 16.800 min Scan# 2020
Delta R.T. 0.008 min
Lab File: r1619129.D
Acq: 16 Sep 2020 10:50 PM

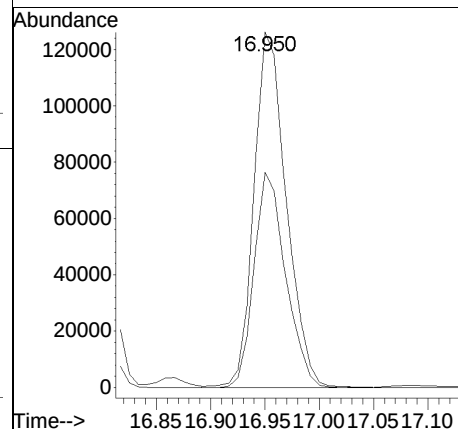
Tgt Ion	Ratio	Lower	Upper
91	100		
106	39.2	30.3	45.5

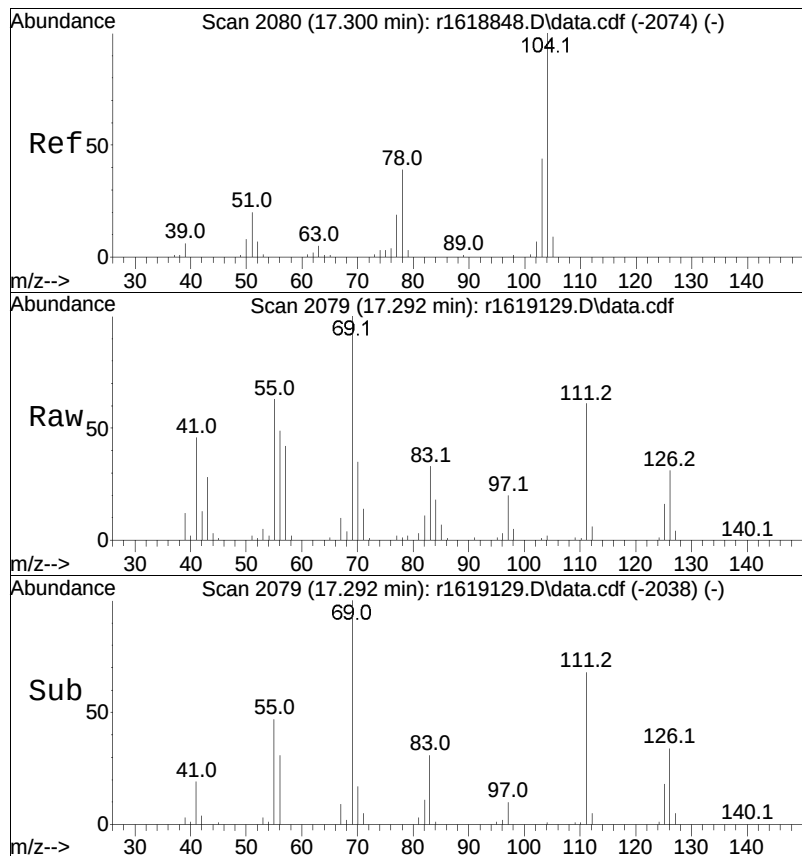




#83
 m+p-xylene
 Concen: 3.50 ppbV
 RT: 16.950 min Scan# 2038
 Delta R.T. -0.008 min
 Lab File: r1619129.D
 Acq: 16 Sep 2020 10:50 PM

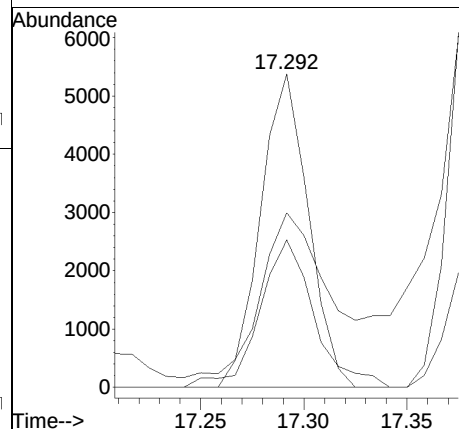
Tgt Ion:	91	Resp:	261181
Ion Ratio	Lower	Upper	
91	100		
106	60.5	45.2	67.8

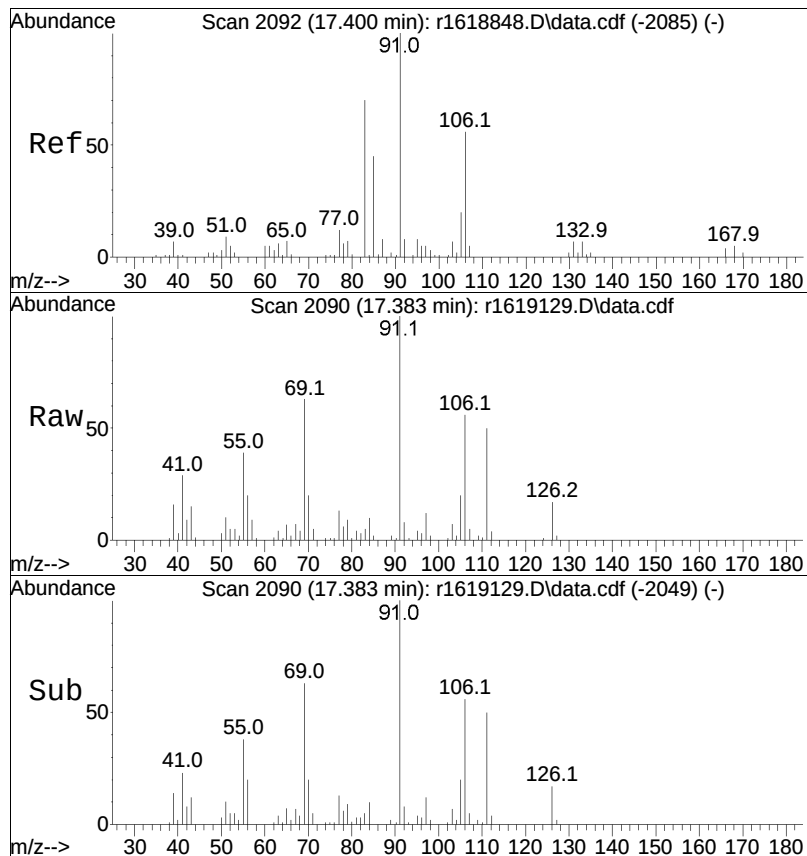




#85
styrene
Concen: 0.14 ppbV
RT: 17.292 min Scan# 2079
Delta R.T. 0.008 min
Lab File: r1619129.D
Acq: 16 Sep 2020 10:50 PM

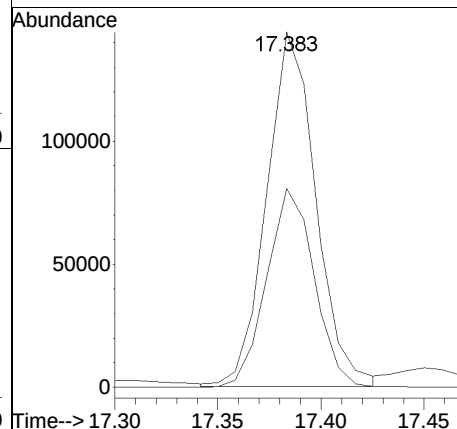
Tgt Ion:	104	Resp:	8684
Ion Ratio	Lower	Upper	
104	100		
103	47.1	35.3	52.9
78	55.8	31.5	47.3#

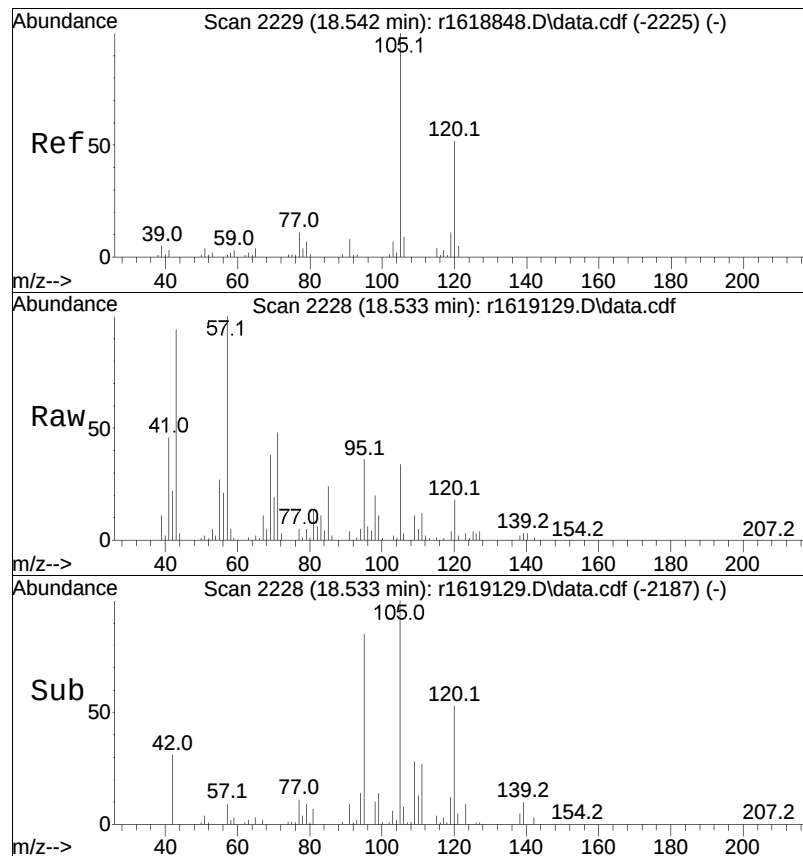




#87
 o-xylene
 Concen: 3.19 ppbV
 RT: 17.383 min Scan# 2090
 Delta R.T. 0.008 min
 Lab File: r1619129.D
 Acq: 16 Sep 2020 10:50 PM

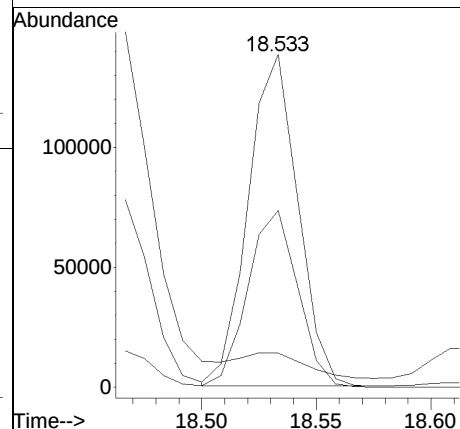
Tgt Ion	Ratio	Lower	Upper
91	100		
106	55.9	44.6	66.8

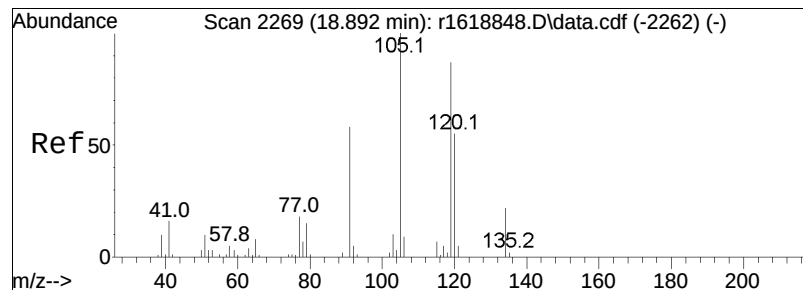




#97
 1,3,5-trimethylbenzene
 Concen: 2.19 ppbV
 RT: 18.533 min Scan# 2228
 Delta R.T. 0.008 min
 Lab File: r1619129.D
 Acq: 16 Sep 2020 10:50 PM

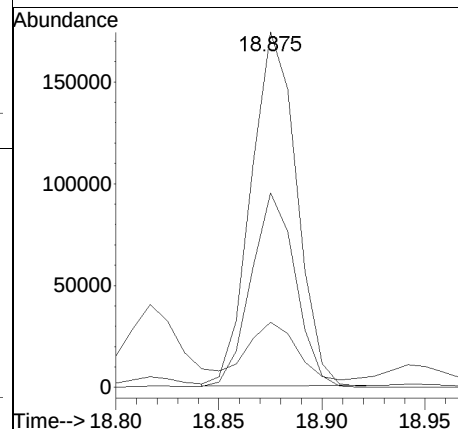
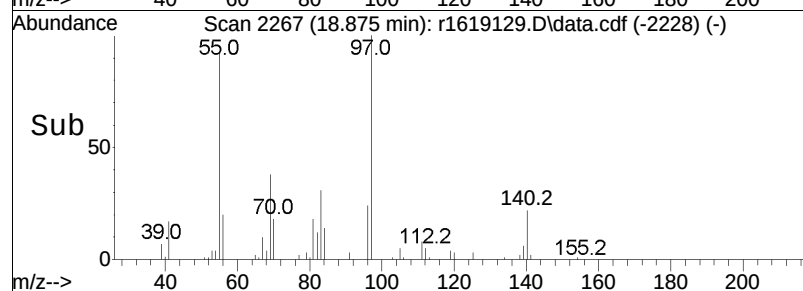
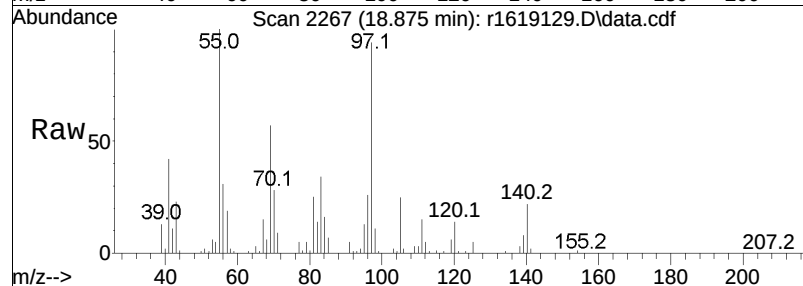
Tgt Ion	Ratio	Lower	Upper
105	100		
120	53.1	41.2	61.8
91	10.3	6.7	10.1#





#99
 1,2,4-trimethylbenzene
 Concen: 2.98 ppbV
 RT: 18.875 min Scan# 2267
 Delta R.T. 0.008 min
 Lab File: r1619129.D
 Acq: 16 Sep 2020 10:50 PM

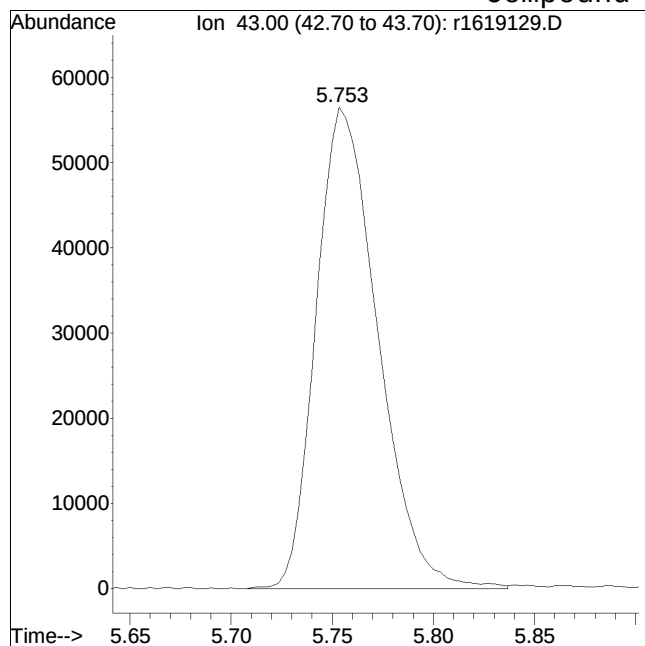
Tgt Ion	Ratio	Lower	Upper
105	100		
120	54.7	44.0	66.0
91	18.4	46.2	69.4#



Manual Integration Report

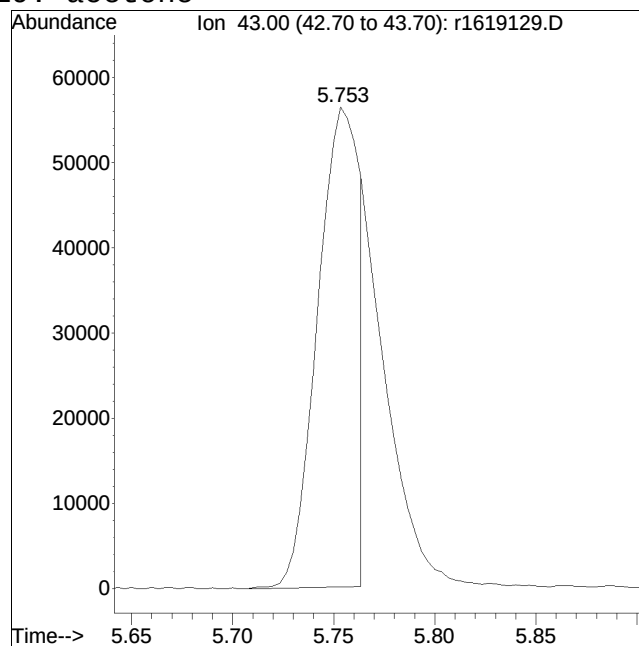
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619129.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:0: 0 Instrument :
Sample : L2037647-04,3,250,250 Quant Date : 9/17/2020 5:40 am

Compound #19: acetone



Original Peak Response = 120306

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



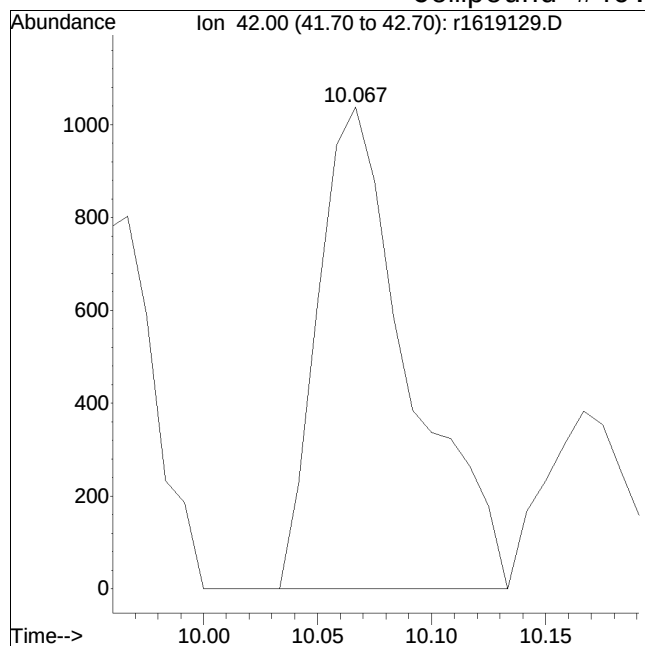
Manual Peak Response = 81089 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

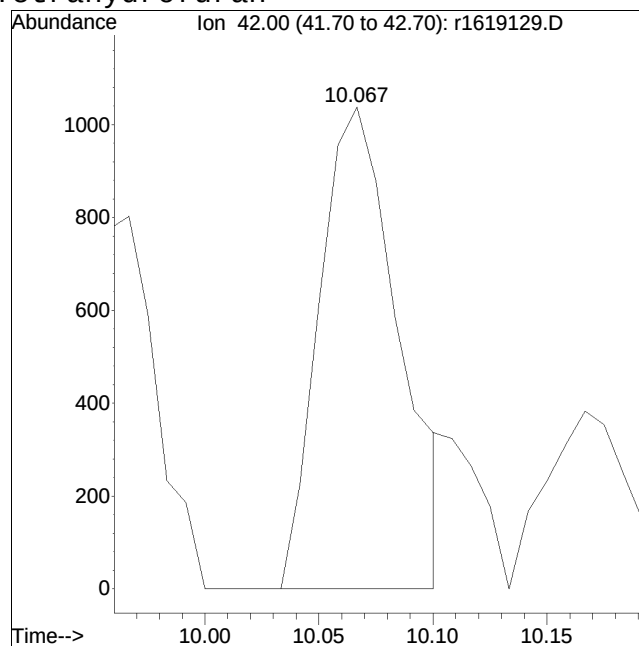
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619129.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:0: 0 Instrument :
Sample : L2037647-04,3,250,250 Quant Date : 9/17/2020 5:40 am

Compound #40: Tetrahydrofuran



Original Peak Response = 2894

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

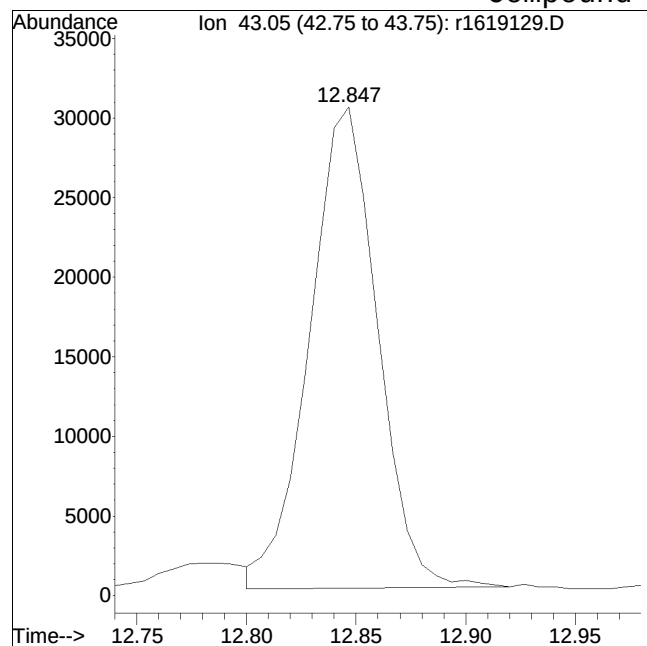


Manual Peak Response = 2511 M6

Manual Integration Report

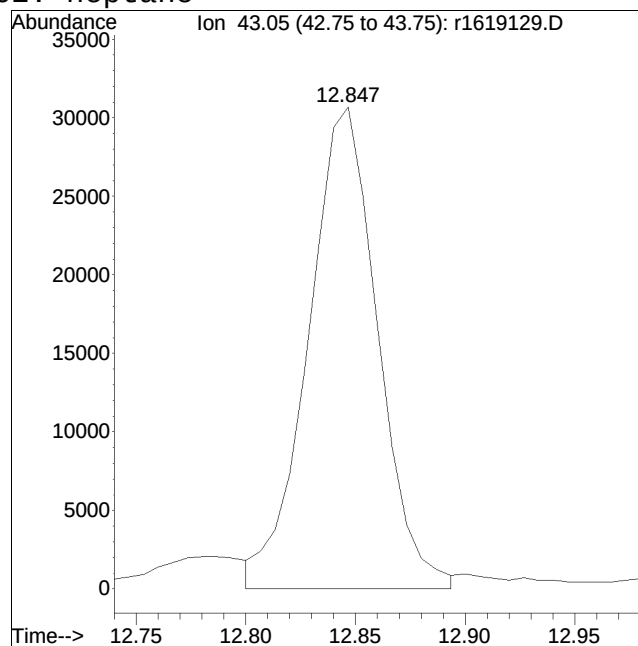
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619129.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:0: 0 Instrument :
Sample : L2037647-04,3,250,250 Quant Date : 9/17/2020 5:40 am

Compound #62: heptane



Original Peak Response = 64997

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

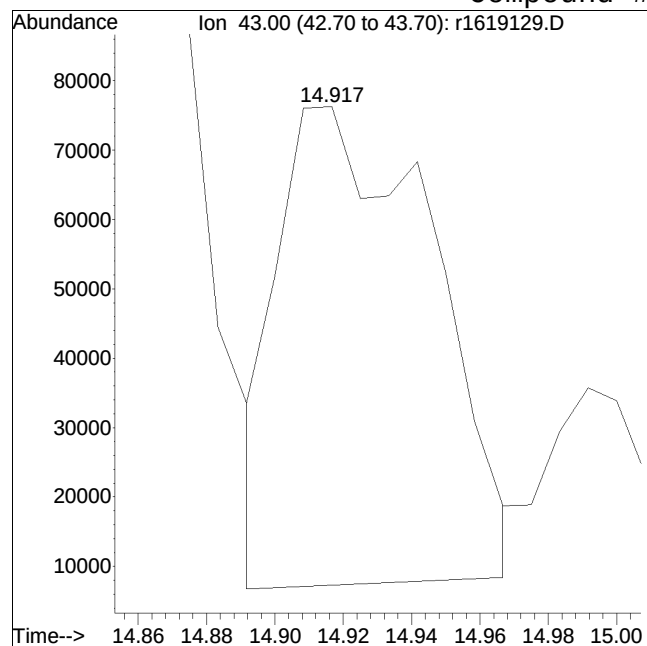


Manual Peak Response = 67335 M6

Manual Integration Report

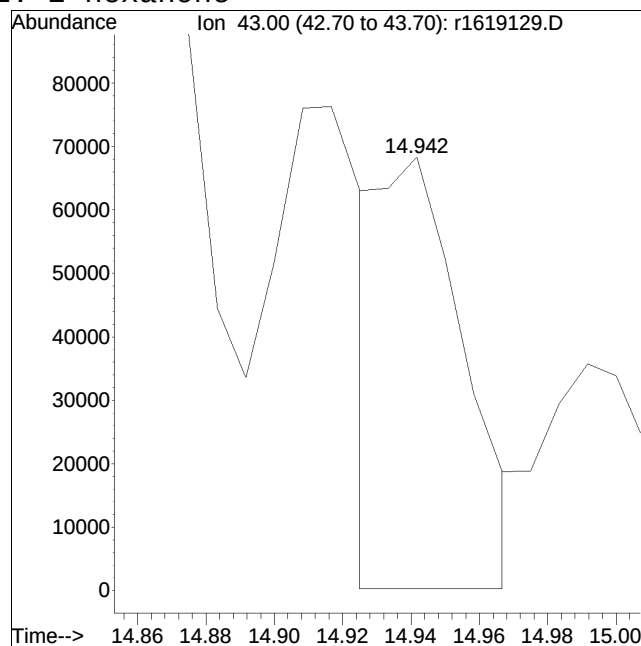
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619129.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:0: 0 Instrument :
Sample : L2037647-04,3,250,250 Quant Date : 9/17/2020 5:40 am

Compound #72: 2-hexanone



Original Peak Response = 216465

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 116223 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619130.D
 Acq On : 16 Sep 2020 11:29 PM
 Operator : AIRLAB16:TS
 Sample : L2037647-05,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:10:10 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.400	49	230045	10.000	ppbV	0.00
Standard Area = 289019			Recovery =		79.60%	
43) 1,4-difluorobenzene	11.673	114	788096	10.000	ppbV	0.00
Standard Area = 862875			Recovery =		91.33%	
67) chlorobenzene-D5	16.408	54	114275	10.000	ppbV	0.00
Standard Area = 122360			Recovery =		93.39%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.874	85	16362	0.750	ppbV	98
6) chloromethane	0.000		0	N.D.	d	
7) Freon-114	0.000		0	N.D.	d	
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.468	54	2090	0.192	ppbV	83
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.182	31	36879	4.470	ppbV	98
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.750	43	105181M6	5.270	ppbV	
21) trichlorofluoromethane	5.930	101	24080	1.361	ppbV	95
22) isopropyl alcohol	6.097	45	25100	0.994	ppbV #	98
26) 1,1-dichloroethene	0.000		0	N.D.	d	
27) tertiary butyl alcohol	6.838	59	5917	0.322	ppbV #	81
28) methylene chloride	6.862	49	2739	0.170	ppbV	90
29) 3-chloropropene	6.976		0	N.D.		
30) carbon disulfide	7.144	76	576130	13.688	ppbV #	92
31) Freon 113	7.186	101	2077	0.085	ppbV	96
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	8.725	43	121640	3.866	ppbV	98
37) cis-1,2-dichloroethene	9.217		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.	d	
39) chloroform	9.567	83	389732	17.521	ppbV	98
40) Tetrahydrofuran	10.067	42	2852M6	0.128	ppbV	
42) 1,2-dichloroethane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619130.D
 Acq On : 16 Sep 2020 11:29 PM
 Operator : AIRLAB16:TS
 Sample : L2037647-05,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:10:10 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
44) hexane	9.475	57	23279	0.867	ppbV	#	50
48) 1,1,1-trichloroethane	10.708		0	N.D.			
50) benzene	11.233	78	40995	0.706	ppbV		99
52) carbon tetrachloride	11.400		0	N.D.			
53) cyclohexane	11.547	56	38979	1.342	ppbV		96
56) 1,2-dichloropropane	12.193		0	N.D.			
57) bromodichloromethane	0.000		0	N.D.	d		
58) 1,4-dioxane	12.513		0	N.D.			
59) trichloroethene	12.467	130	6524	0.261	ppbV		96
60) 2,2,4-trimethylpentane	0.000		0	N.D.	d		
62) heptane	12.840	43	54774M6	1.197	ppbV		
63) cis-1,3-dichloropropene	0.000		0	N.D.			
64) 4-methyl-2-pentanone	0.000		0	N.D.	d		
65) trans-1,3-dichloropropene	0.000		0	N.D.			
66) 1,1,2-trichloroethane	0.000		0	N.D.	d		
68) toluene	14.625	91	165367	2.335	ppbV		99
72) 2-hexanone	14.942	43	94316M6	1.885	ppbV		
74) dibromochloromethane	0.000		0	N.D.			
75) 1,2-dibromoethane	0.000		0	N.D.			
78) tetrachloroethene	15.800	166	216318	7.073	ppbV		95
80) chlorobenzene	0.000		0	N.D.	d		
81) ethylbenzene	16.800	91	116435	1.299	ppbV		98
83) m+p-xylene	16.950	91	229953	3.179	ppbV		94
84) bromoform	0.000		0	N.D.			
85) styrene	17.292	104	11942	0.196	ppbV	#	89
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	d		
87) o-xylene	17.383	91	209595	2.881	ppbV		97
96) 4-ethyl toluene	0.000		0	N.D.	d		
97) 1,3,5-trimethylbenzene	18.533	105	188086	2.043	ppbV	#	97
99) 1,2,4-trimethylbenzene	18.875	105	246166	2.843	ppbV	#	71
101) Benzyl Chloride	0.000		0	N.D.	d		
102) 1,3-dichlorobenzene	19.017		0	N.D.			
103) 1,4-dichlorobenzene	19.067		0	N.D.			
107) 1,2-dichlorobenzene	19.350		0	N.D.			
115) 1,2,4-trichlorobenzene	20.875		0	N.D.			
119) hexachlorobutadiene	0.000		0	N.D.			

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619130.D
 Acq On : 16 Sep 2020 11:29 PM
 Operator : AIRLAB16:TS
 Sample : L2037647-05,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:10:10 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

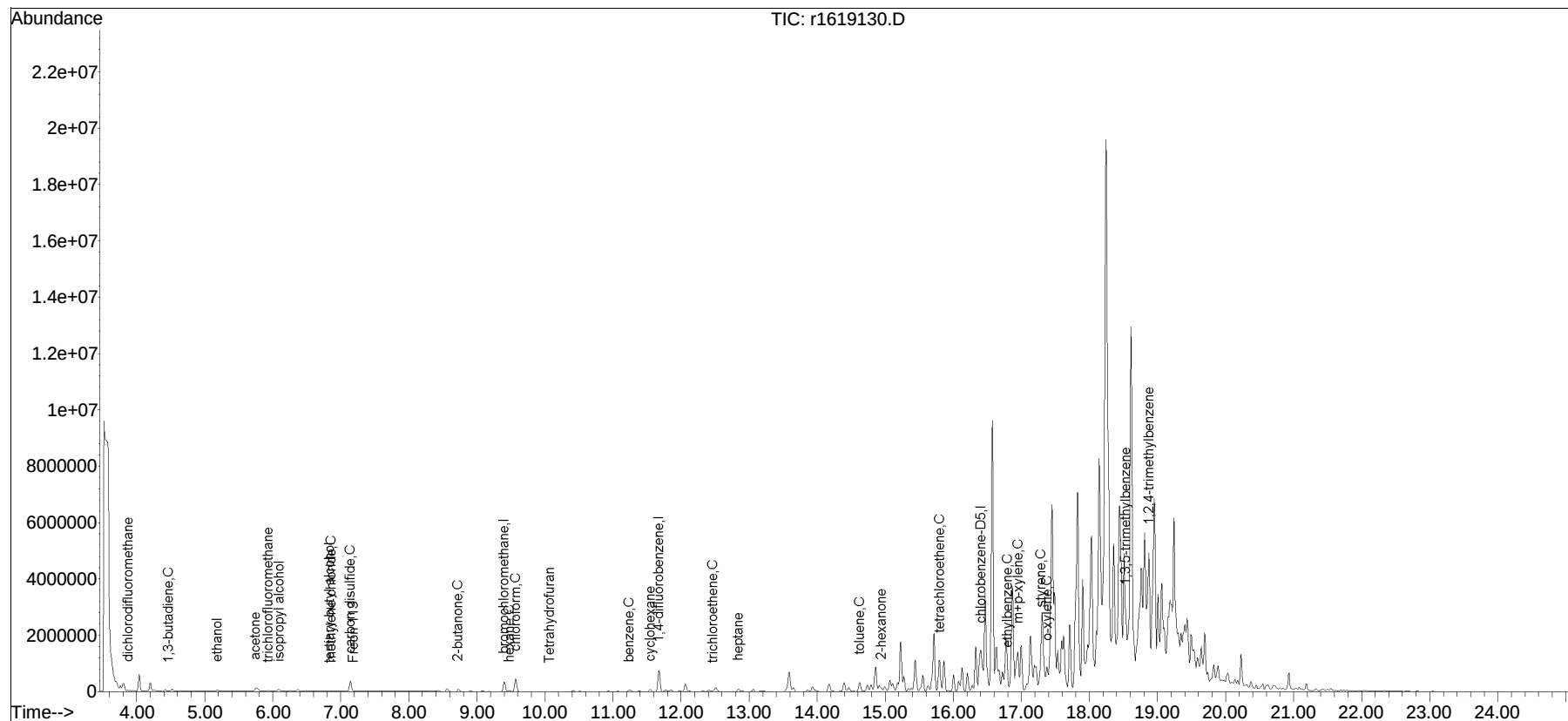
CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

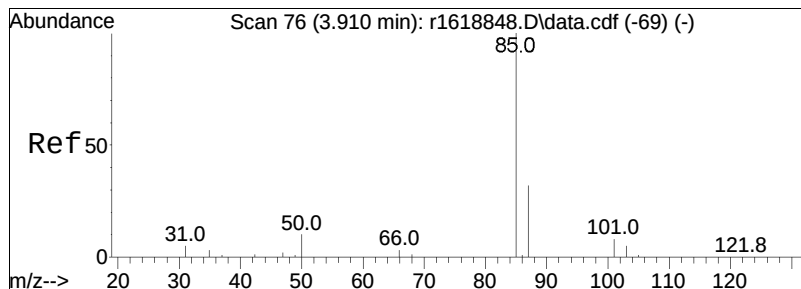
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : T015-NY - .s\Data\Airlab16\2020\09\200916T\r1619115.D

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
Data File : r1619130.D
Acq On : 16 Sep 2020 11:29 PM
Operator : AIRLAB16:TS
Sample : L2037647-05,3,250,250
Misc : WG1410723,ICAL17102
ALS Vial : 0 Sample Multiplier: 1

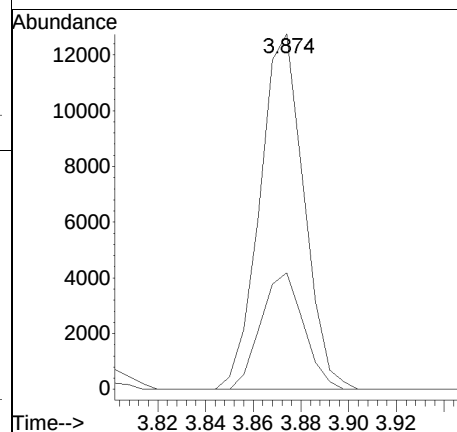
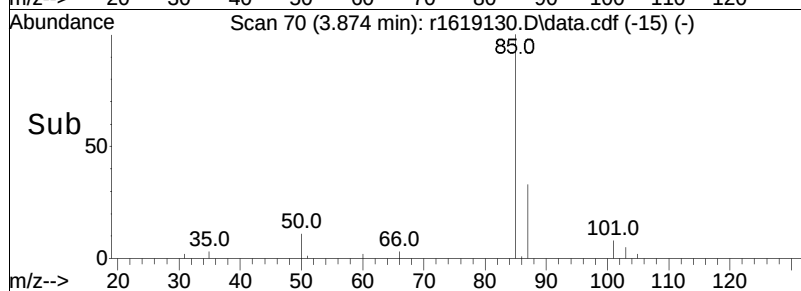
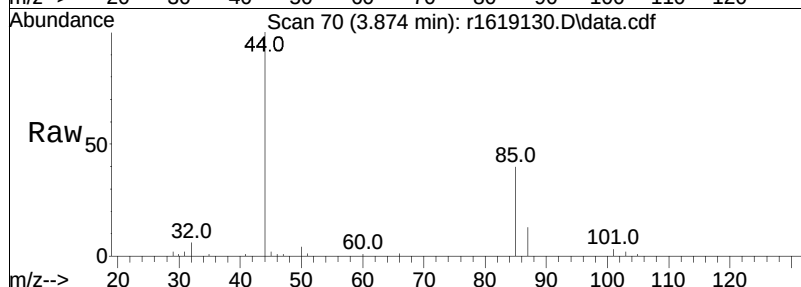
Quant Time: Sep 17 08:10:10 2020
Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Sep 16 13:18:40 2020
Response via : Initial Calibration

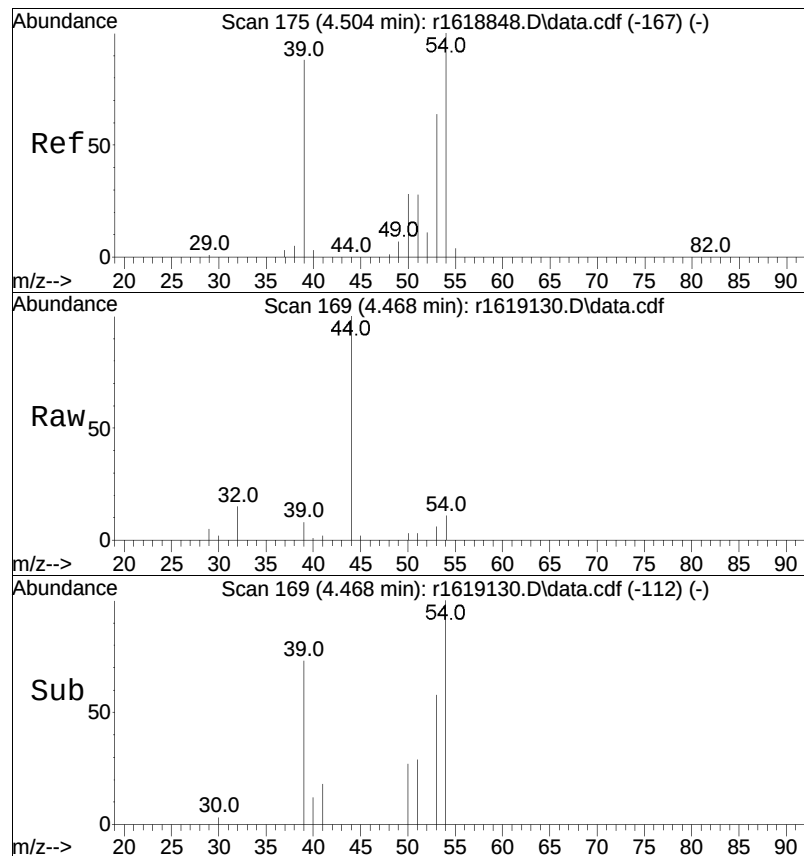




#5
dichlorodifluoromethane
Concen: 0.75 ppbV
RT: 3.874 min Scan# 70
Delta R.T. 0.000 min
Lab File: r1619130.D
Acq: 16 Sep 2020 11:29 PM

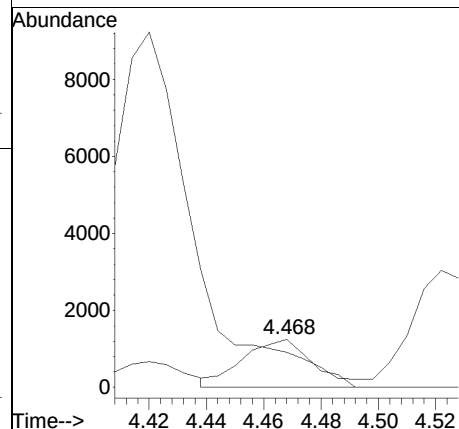
Tgt Ion: 85 Resp: 16362
Ion Ratio Lower Upper
85 100
87 32.9 25.4 38.2

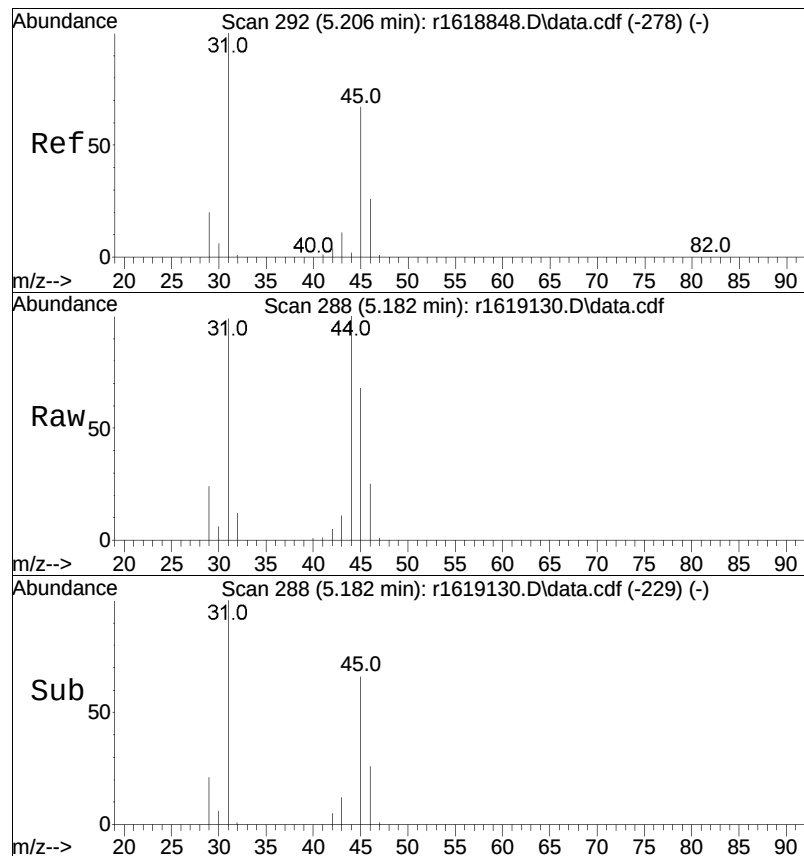




#10
 1,3-butadiene
 Concen: 0.19 ppbV
 RT: 4.468 min Scan# 169
 Delta R.T. 0.012 min
 Lab File: r1619130.D
 Acq: 16 Sep 2020 11:29 PM

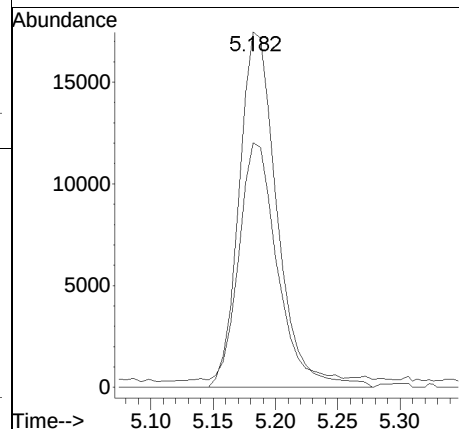
Tgt	Ion	Resp	Lower	Upper
54	100	2090		
39	73.1	70.9	106.3	

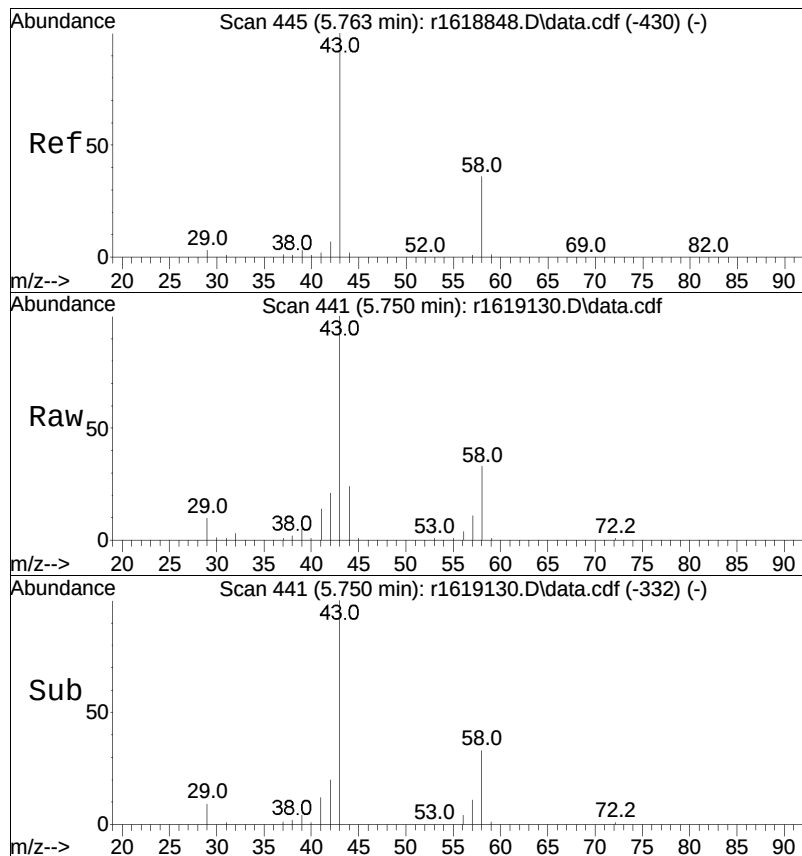




#15
ethanol
Concen: 4.47 ppbV
RT: 5.182 min Scan# 288
Delta R.T. 0.024 min
Lab File: r1619130.D
Acq: 16 Sep 2020 11:29 PM

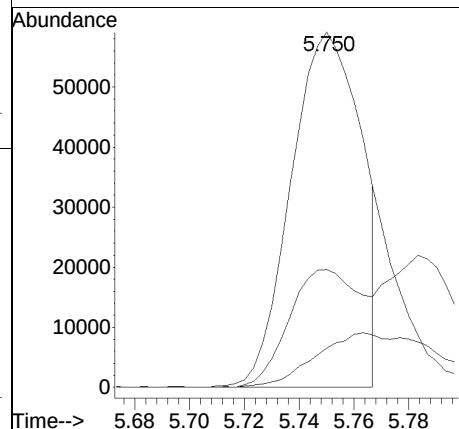
Tgt Ion:	31	Resp:	36879
Ion Ratio	Lower	Upper	
31	100		
45	68.9	54.0	81.0

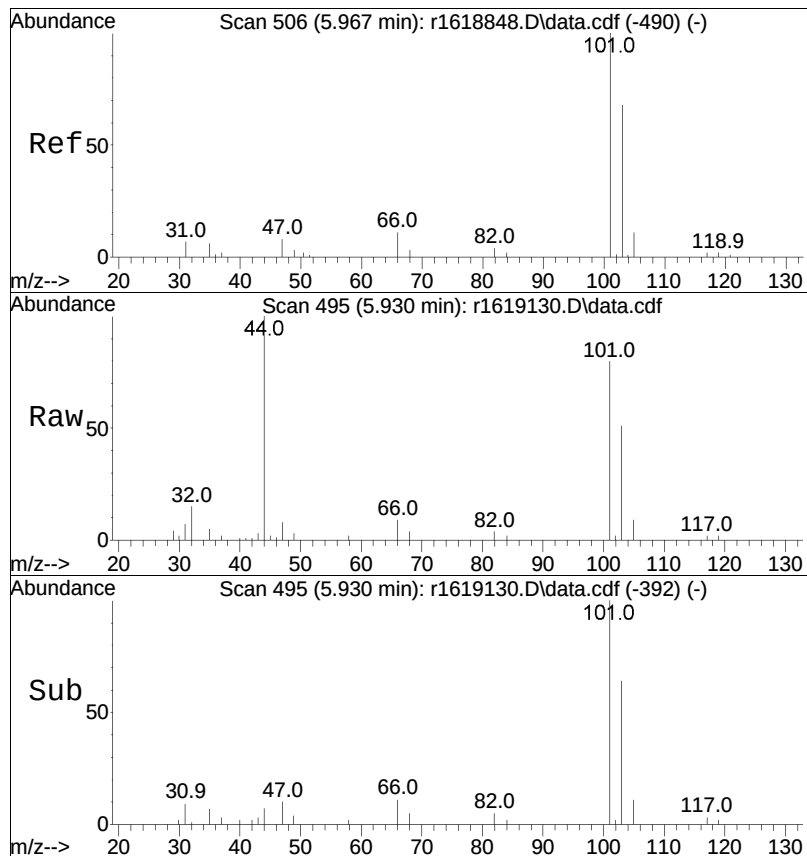




#19
 acetone
 Concen: 5.27 ppbV m
 RT: 5.750 min Scan# 441
 Delta R.T. 0.033 min
 Lab File: r1619130.D
 Acq: 16 Sep 2020 11:29 PM

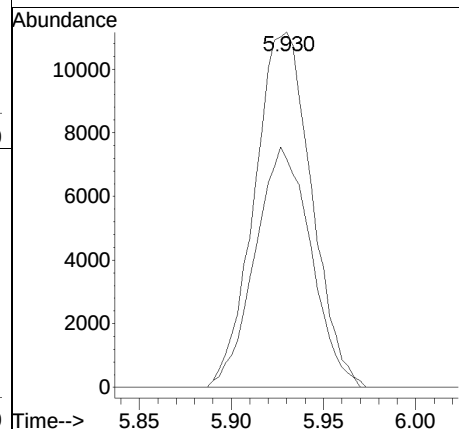
Tgt Ion:	43	Resp:	105181
Ion Ratio	Lower	Upper	
43	100		
58	33.2	28.9	43.3
57	11.1	0.7	1.1#

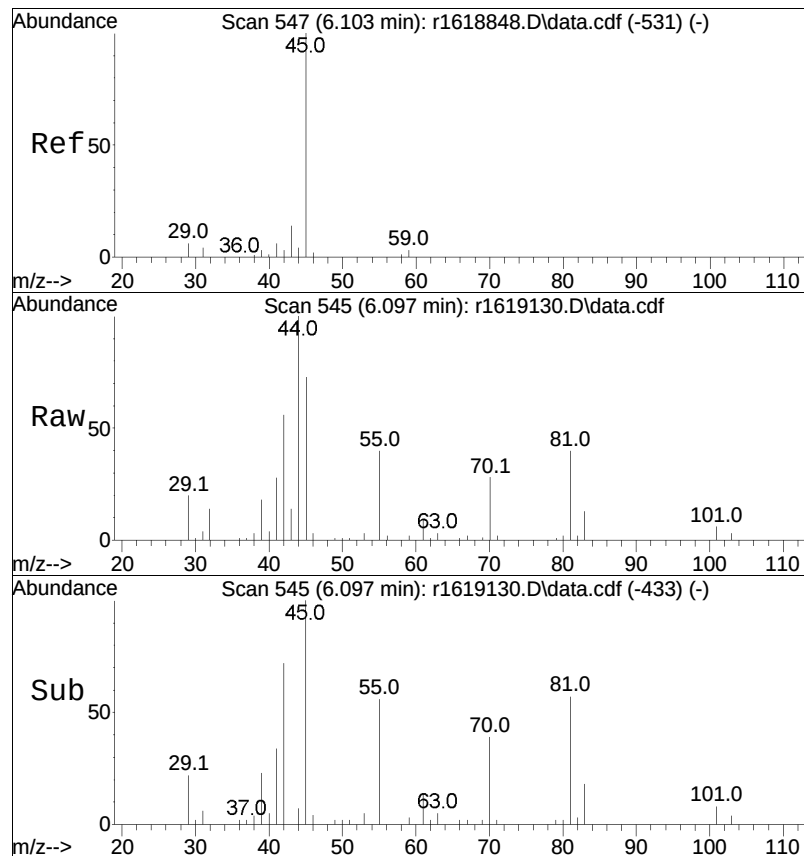




#21
trichlorofluoromethane
Concen: 1.36 ppbV
RT: 5.930 min Scan# 495
Delta R.T. 0.013 min
Lab File: r1619130.D
Acq: 16 Sep 2020 11:29 PM

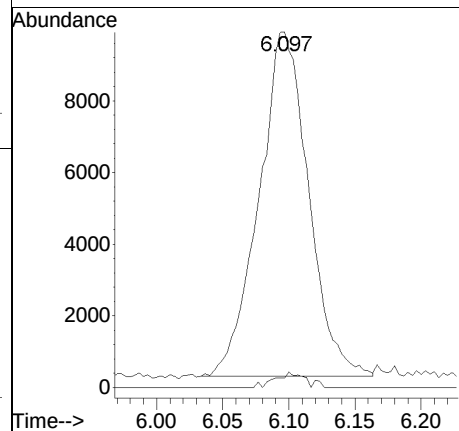
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	64.3	54.6	82.0	

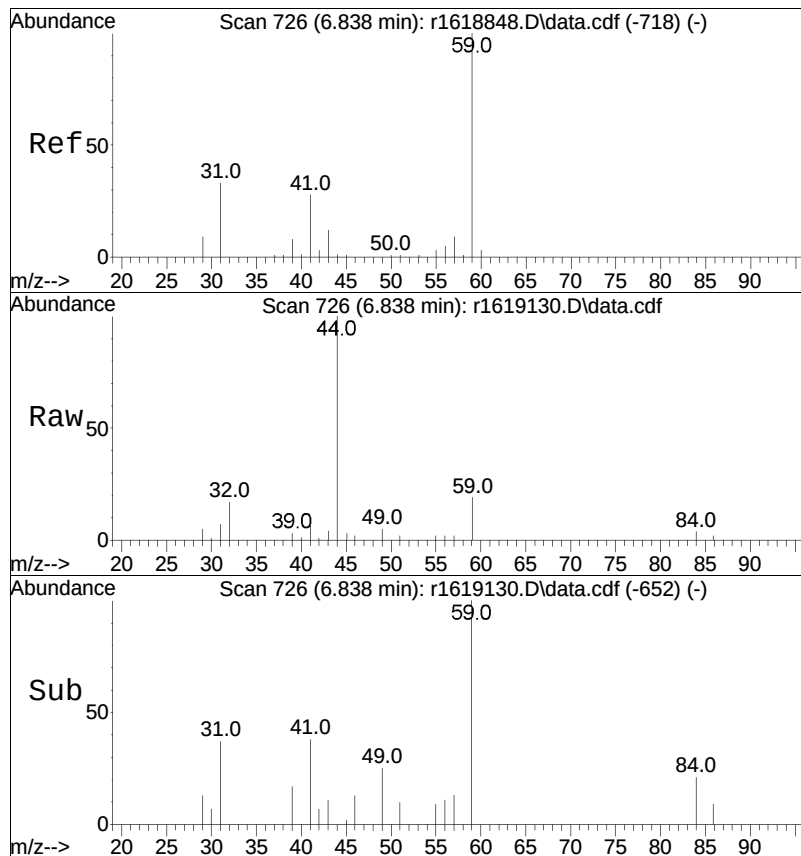




#22
isopropyl alcohol
Concen: 0.99 ppbV
RT: 6.097 min Scan# 545
Delta R.T. 0.043 min
Lab File: r1619130.D
Acq: 16 Sep 2020 11:29 PM

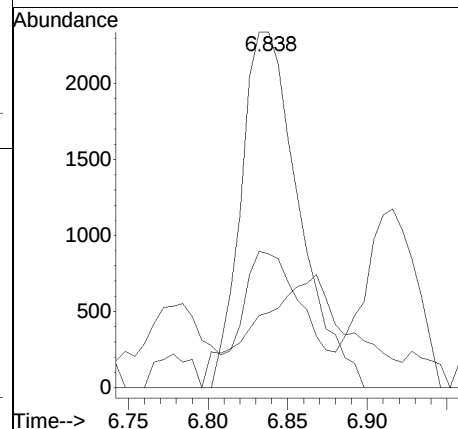
Tgt	Ion	Ratio	Lower	Upper
45	100			
59	2.6	2.7	4.1#	

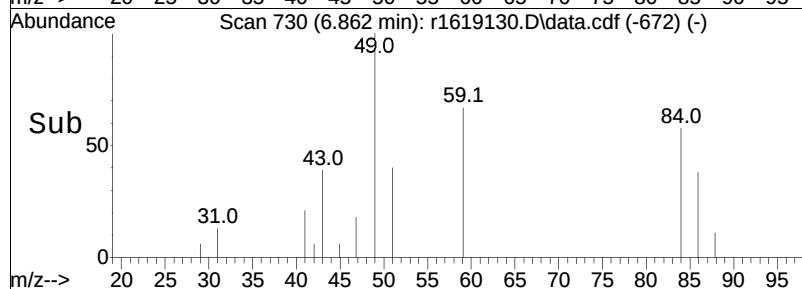
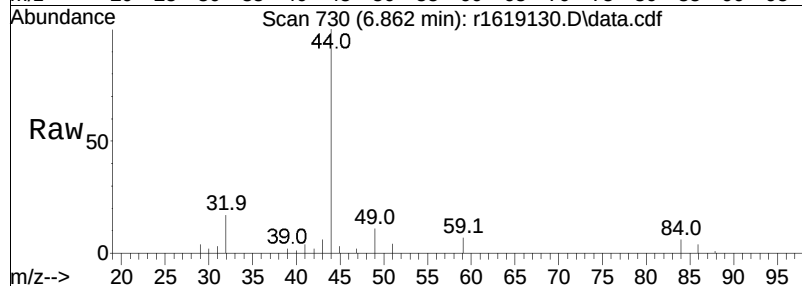
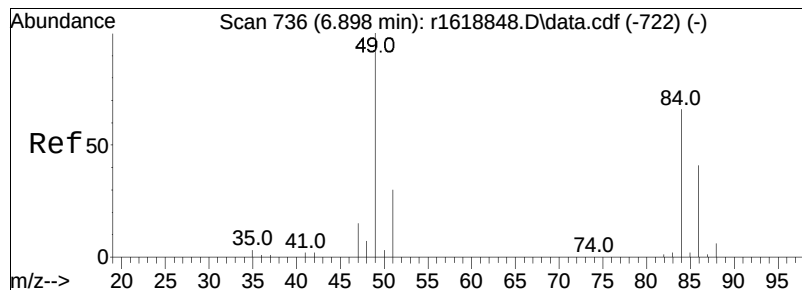




#27
 tertiary butyl alcohol
 Concen: 0.32 ppbV
 RT: 6.838 min Scan# 726
 Delta R.T. 0.054 min
 Lab File: r1619130.D
 Acq: 16 Sep 2020 11:29 PM

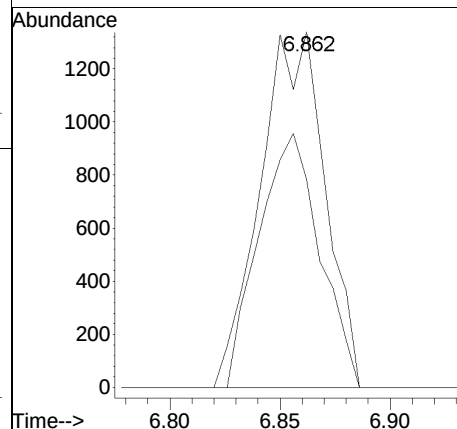
Tgt Ion	Ratio	Lower	Upper
59	100		
41	37.6	22.4	33.6#
43	21.0	10.2	15.2#

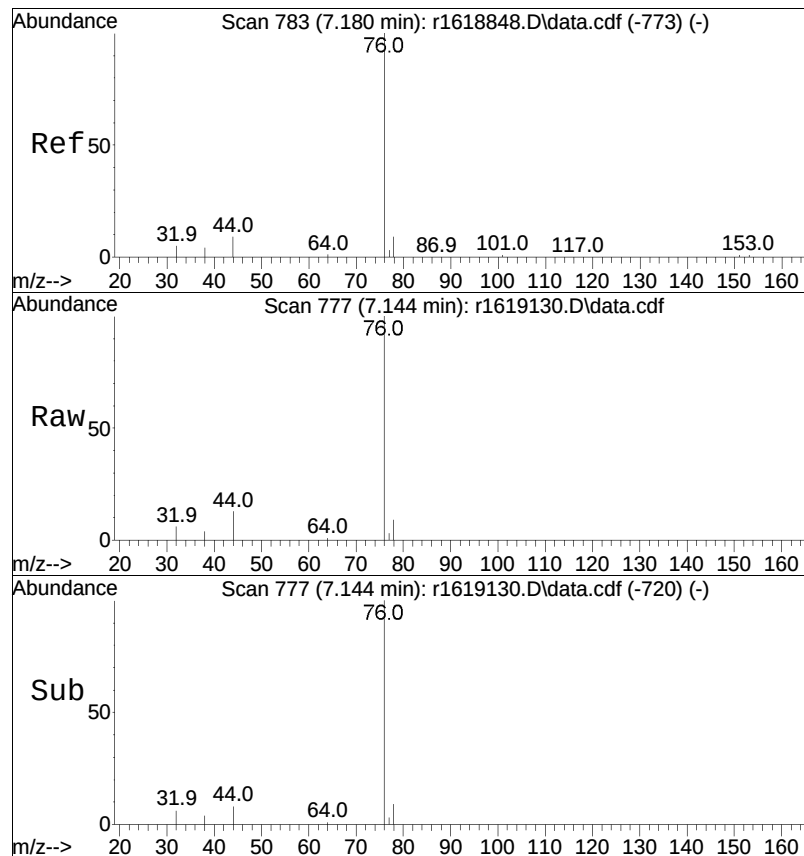




#28
methylene chloride
Concen: 0.17 ppbV
RT: 6.862 min Scan# 730
Delta R.T. 0.012 min
Lab File: r1619130.D
Acq: 16 Sep 2020 11:29 PM

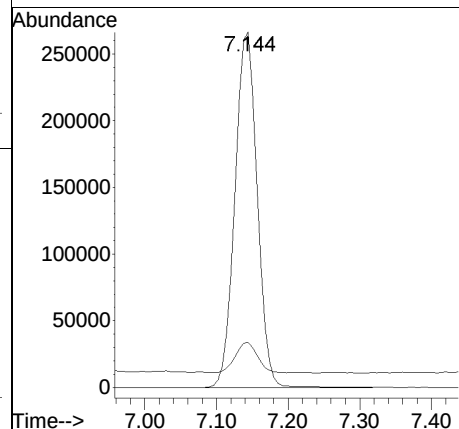
Tgt	Ion	Resp	Lower	Upper
49	100	2739		
84	58.5	53.2	79.8	

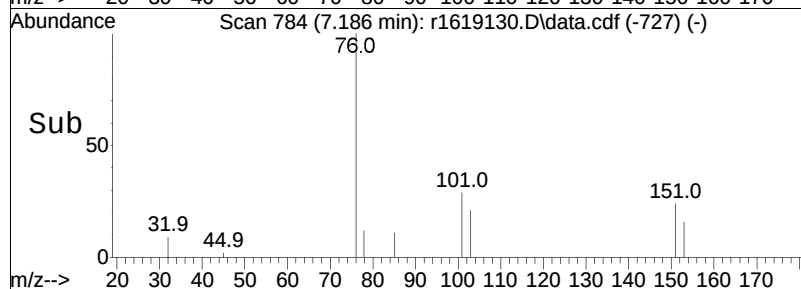
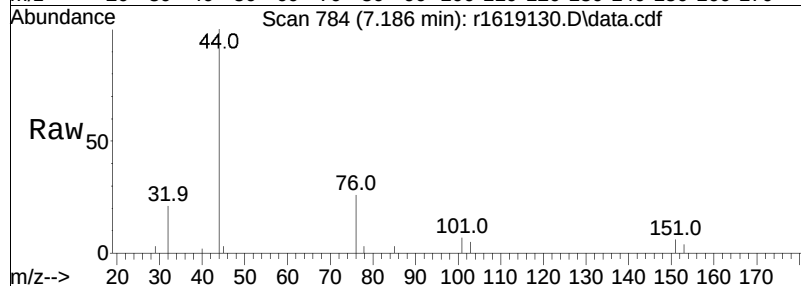
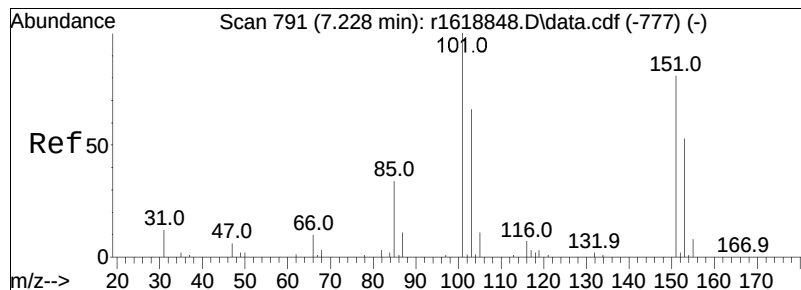




#30
 carbon disulfide
 Concen: 13.69 ppbV
 RT: 7.144 min Scan# 777
 Delta R.T. 0.012 min
 Lab File: r1619130.D
 Acq: 16 Sep 2020 11:29 PM

Tgt Ion	Ratio	Lower	Upper
76	100		
44	12.6	7.7	11.5#





#31

Freon 113

Concen: 0.09 ppbV

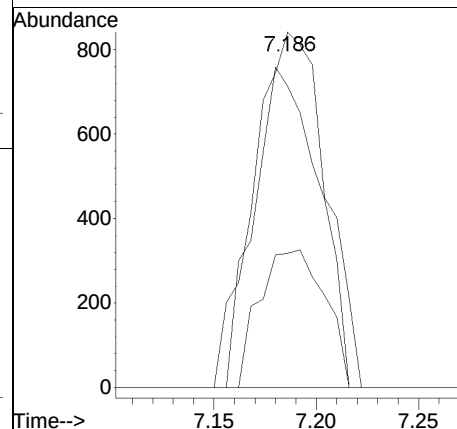
RT: 7.186 min Scan# 784

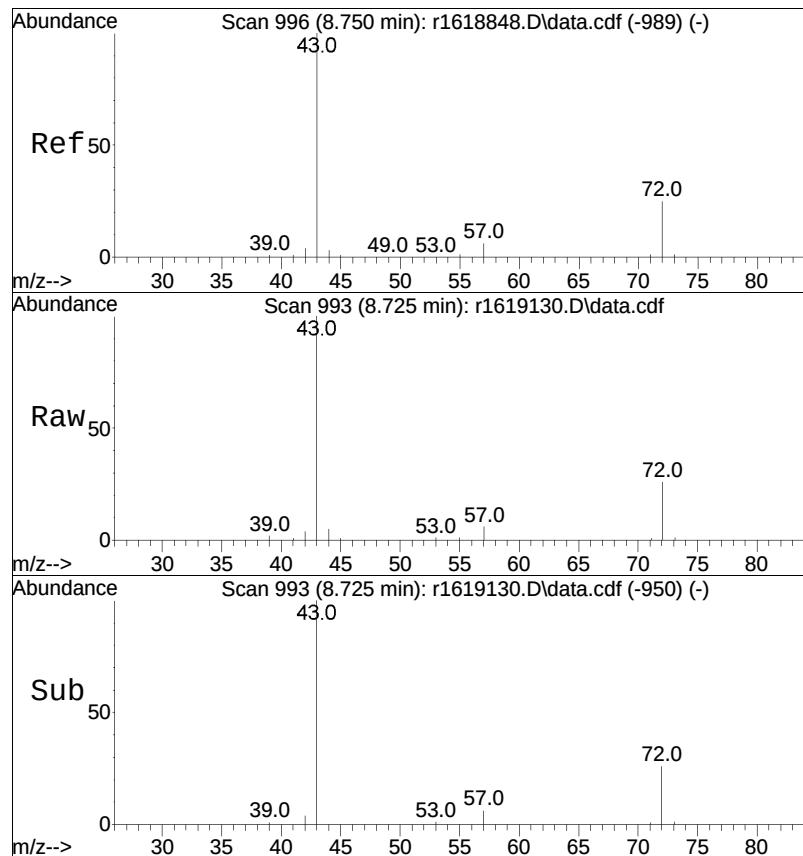
Delta R.T. 0.012 min

Lab File: r1619130.D

Acq: 16 Sep 2020 11:29 PM

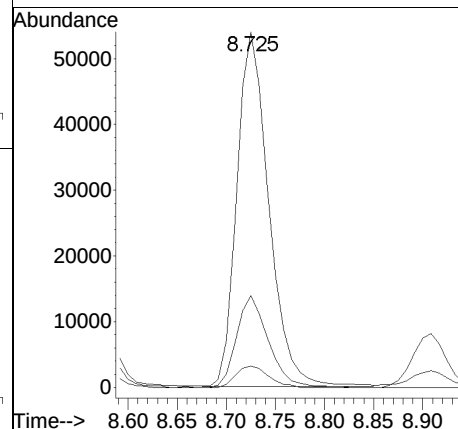
Tgt Ion:	101	Resp:	2077
Ion Ratio	Lower	Upper	
101	100		
85	37.8	27.5	41.3
151	84.7	65.1	97.7

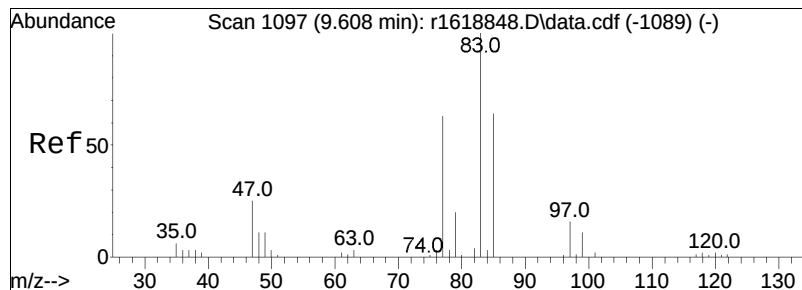




#36
 2-butanone
 Concen: 3.87 ppbV
 RT: 8.725 min Scan# 993
 Delta R.T. 0.025 min
 Lab File: r1619130.D
 Acq: 16 Sep 2020 11:29 PM

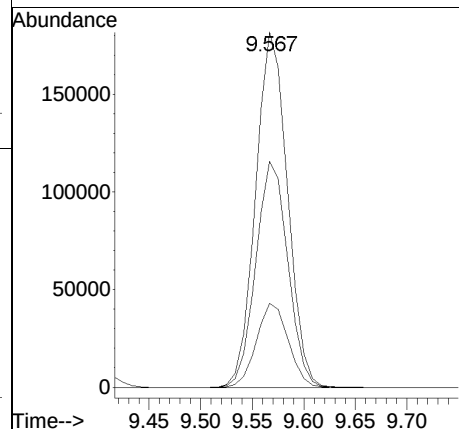
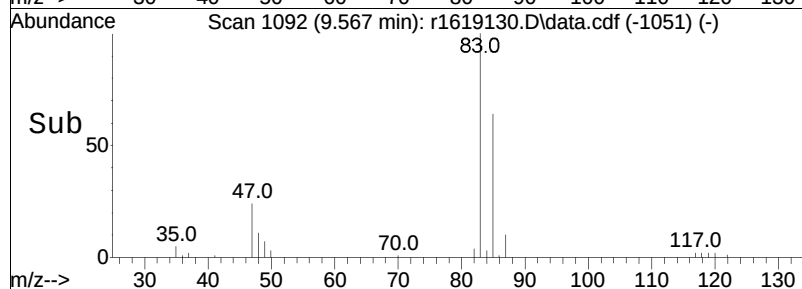
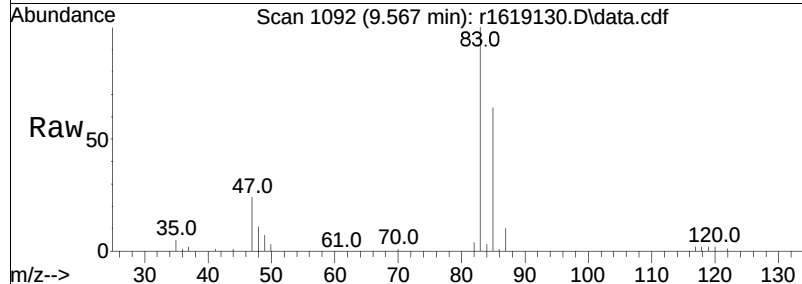
Tgt Ion:	43	Resp:	121640
Ion Ratio	Lower	Upper	
43	100		
72	25.9	19.8	29.6
57	6.0	4.6	6.8

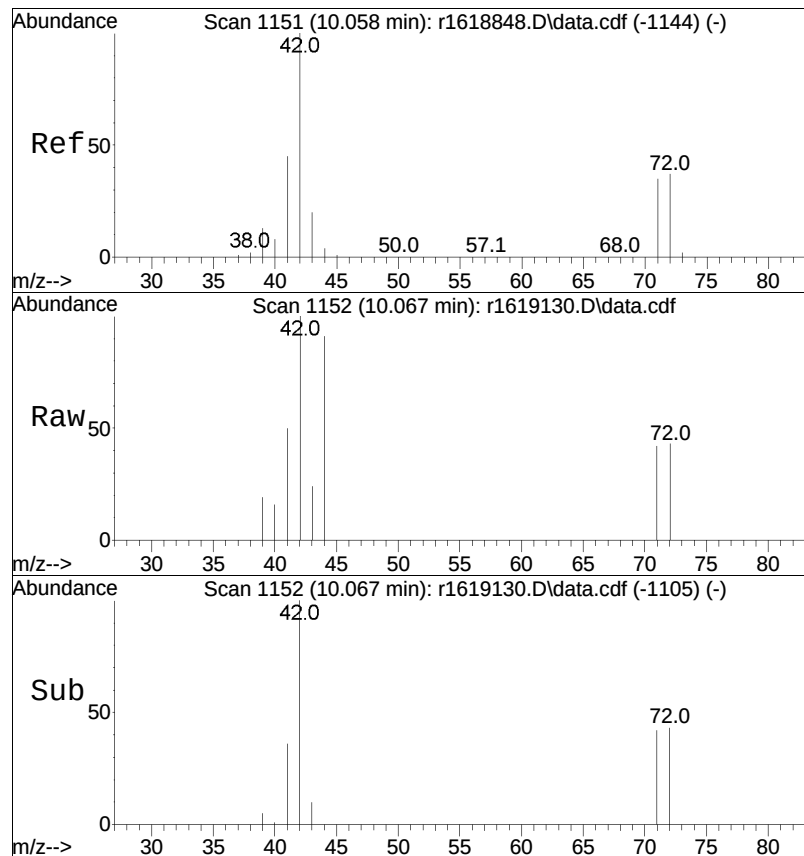




#39
chloroform
Concen: 17.52 ppbV
RT: 9.567 min Scan# 1092
Delta R.T. 0.008 min
Lab File: r1619130.D
Acq: 16 Sep 2020 11:29 PM

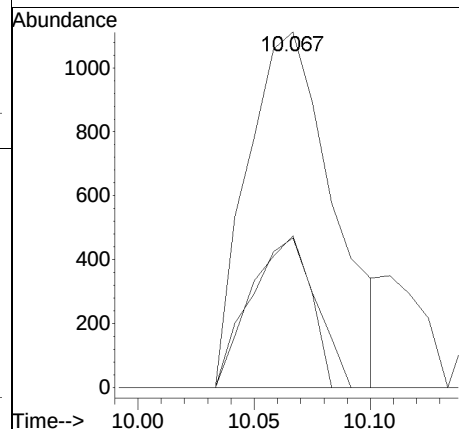
Tgt	Ion	Ratio	Lower	Upper
83	100			
85	63.6	51.5	77.3	
47	23.6	20.1	30.1	

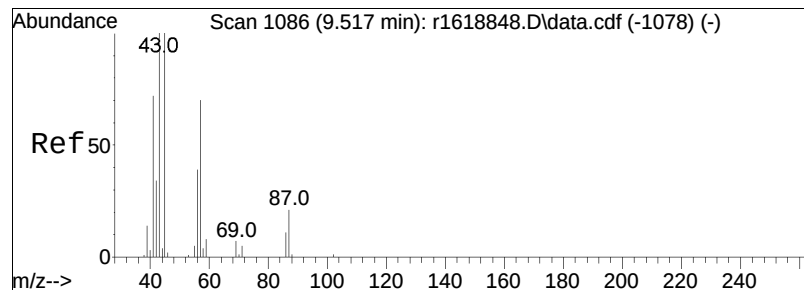




#40
Tetrahydrofuran
Concen: 0.13 ppbV m
RT: 10.067 min Scan# 1152
Delta R.T. 0.058 min
Lab File: r1619130.D
Acq: 16 Sep 2020 11:29 PM

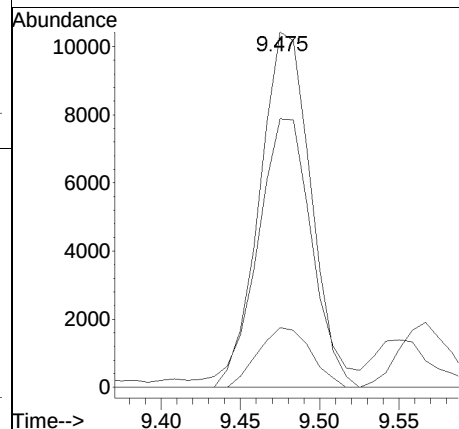
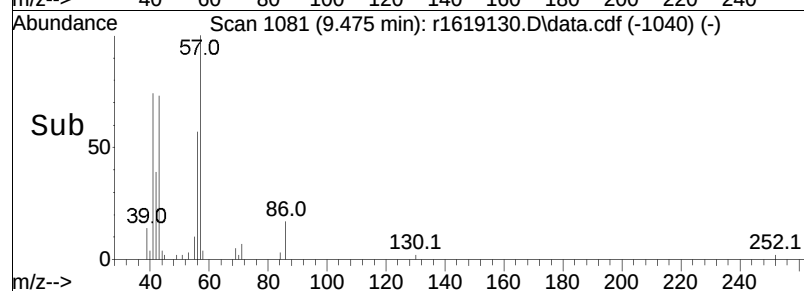
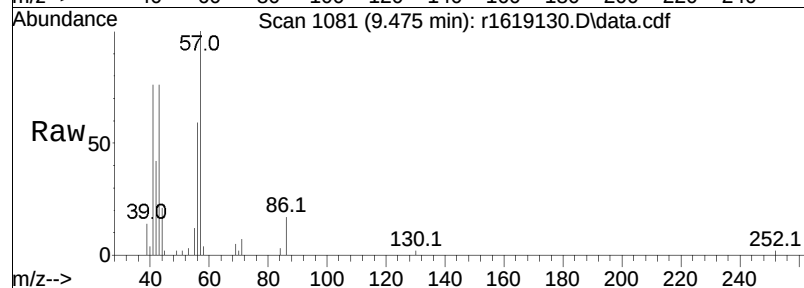
Tgt Ion	Ratio	Resp	Lower	Upper
42	100	2852		
71	42.1		28.2	42.2
72	42.7		29.9	44.9

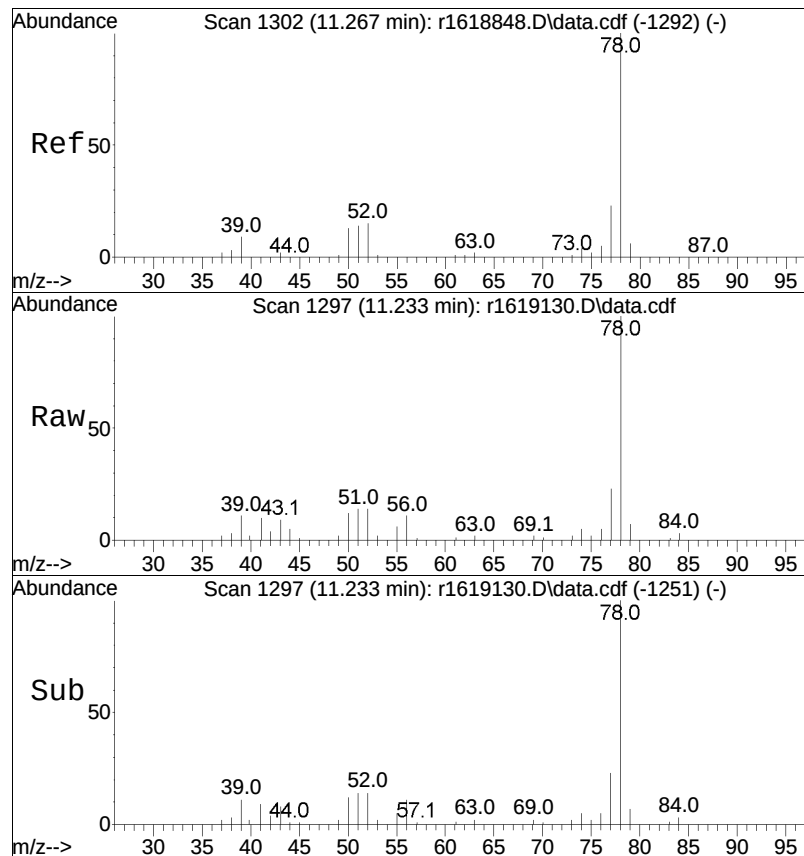




#44
hexane
Concen: 0.87 ppbV
RT: 9.475 min Scan# 1081
Delta R.T. 0.008 min
Lab File: r1619130.D
Acq: 16 Sep 2020 11:29 PM

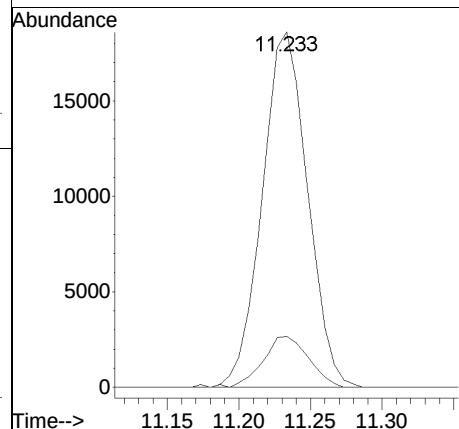
Tgt Ion	Ratio	Lower	Upper
57	100		
43	75.6	114.4	171.6#
86	16.8	12.6	18.8

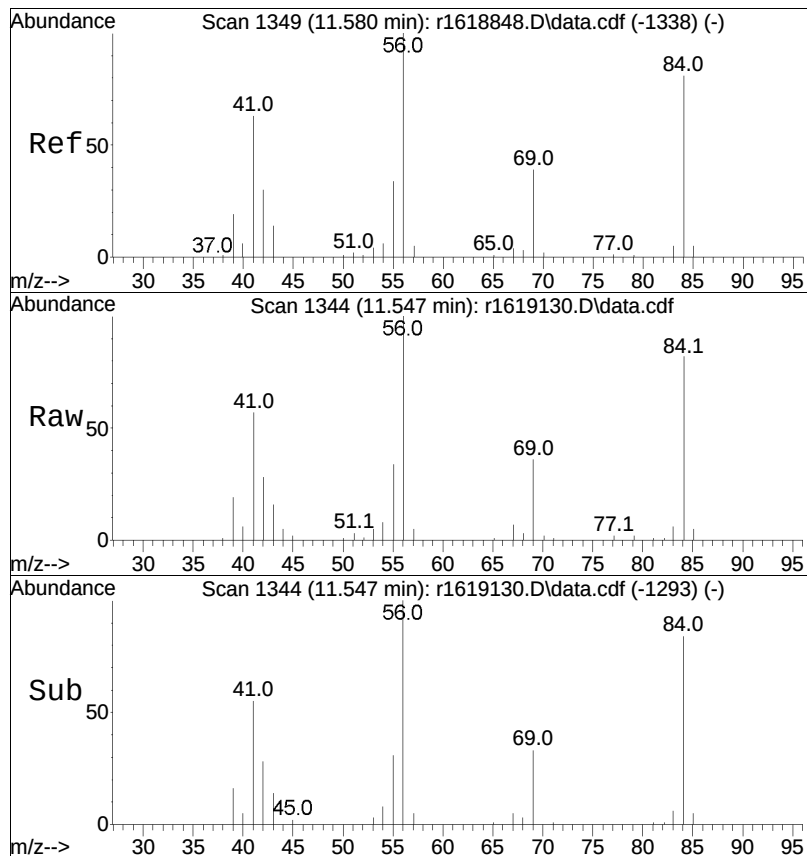




#50
benzene
Concen: 0.71 ppbV
RT: 11.233 min Scan# 1297
Delta R.T. 0.013 min
Lab File: r1619130.D
Acq: 16 Sep 2020 11:29 PM

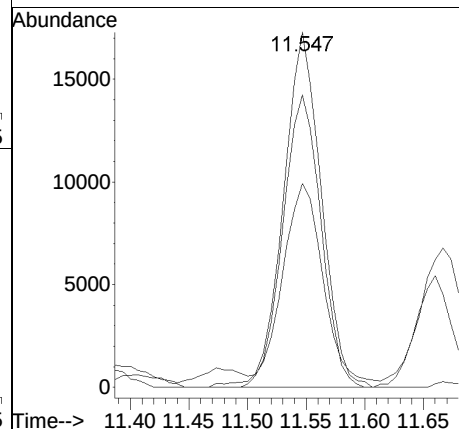
Tgt Ion	Ratio	Lower	Upper
78	100		
52	14.4	11.8	17.6

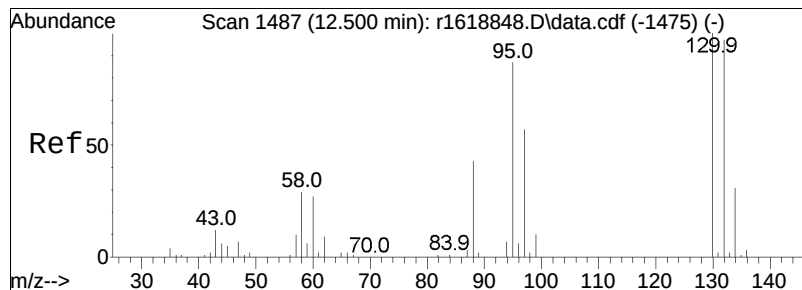




#53
cyclohexane
Concen: 1.34 ppbV
RT: 11.547 min Scan# 1344
Delta R.T. 0.013 min
Lab File: r1619130.D
Acq: 16 Sep 2020 11:29 PM

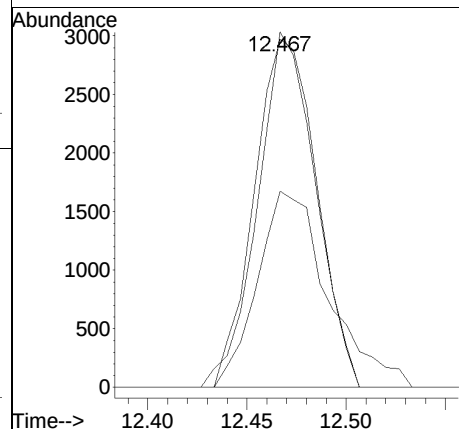
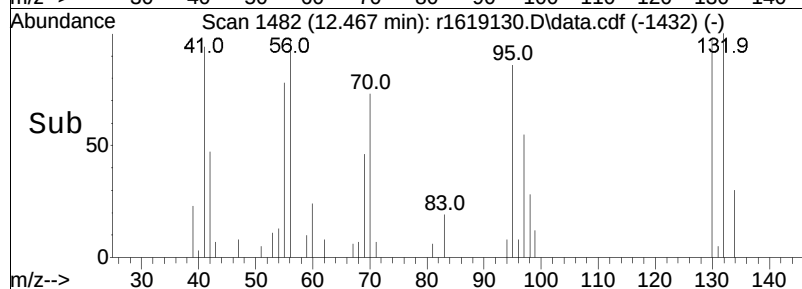
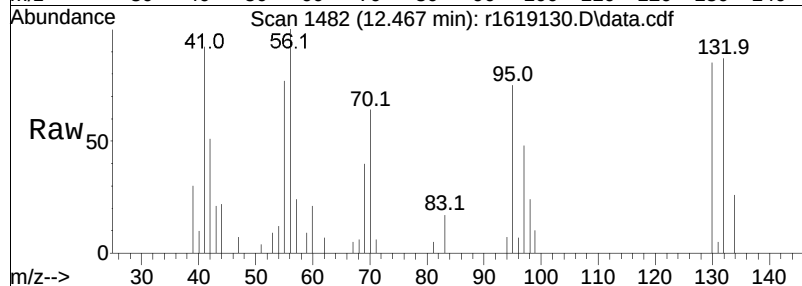
Tgt	Ion: 56	Resp:	38979
Ion	Ratio	Lower	Upper
56	100		
84	82.3	64.6	96.8
41	57.4	50.5	75.7

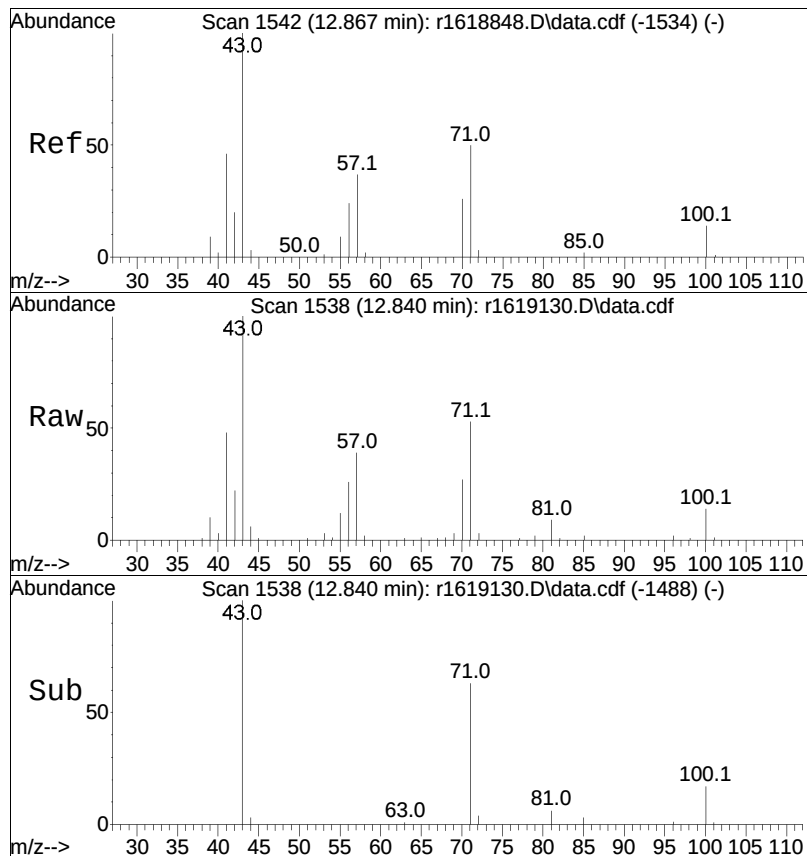




#59
 trichloroethene
 Concen: 0.26 ppbV
 RT: 12.467 min Scan# 1482
 Delta R.T. 0.007 min
 Lab File: r1619130.D
 Acq: 16 Sep 2020 11:29 PM

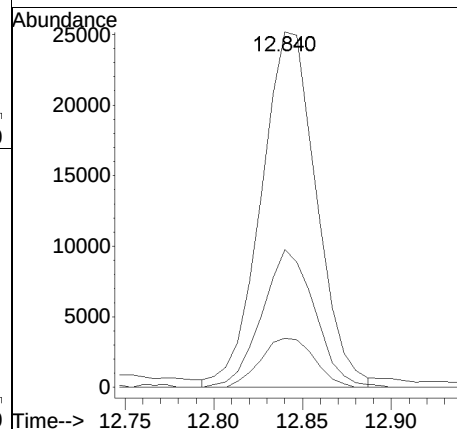
Tgt Ion	Ratio	Lower	Upper
130	100		
132	102.0	77.4	116.2
97	56.3	45.5	68.3

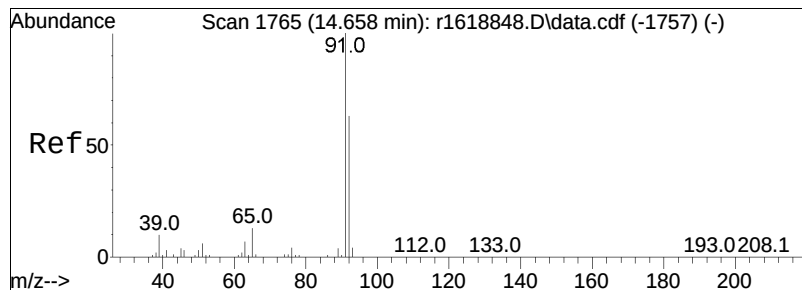




#62
 heptane
 Concen: 1.20 ppbV m
 RT: 12.840 min Scan# 1538
 Delta R.T. 0.007 min
 Lab File: r1619130.D
 Acq: 16 Sep 2020 11:29 PM

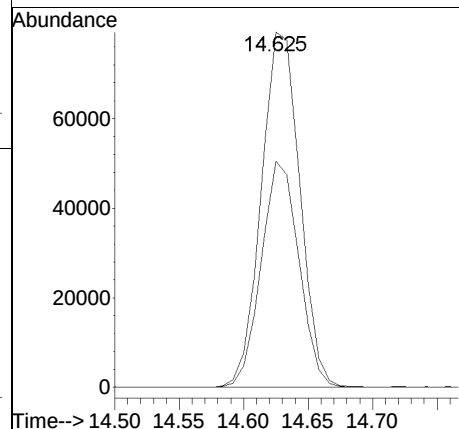
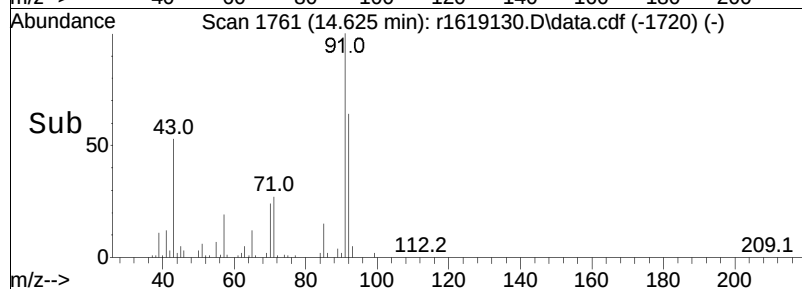
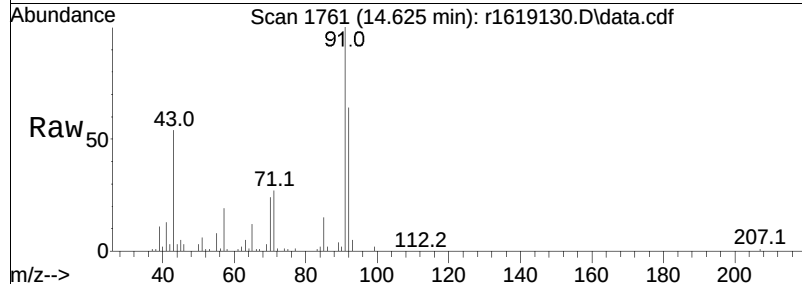
Tgt Ion:	43	Resp:	54774
Ion Ratio	Lower	Upper	
43	100		
57	38.8	29.9	44.9
100	13.9	11.5	17.3

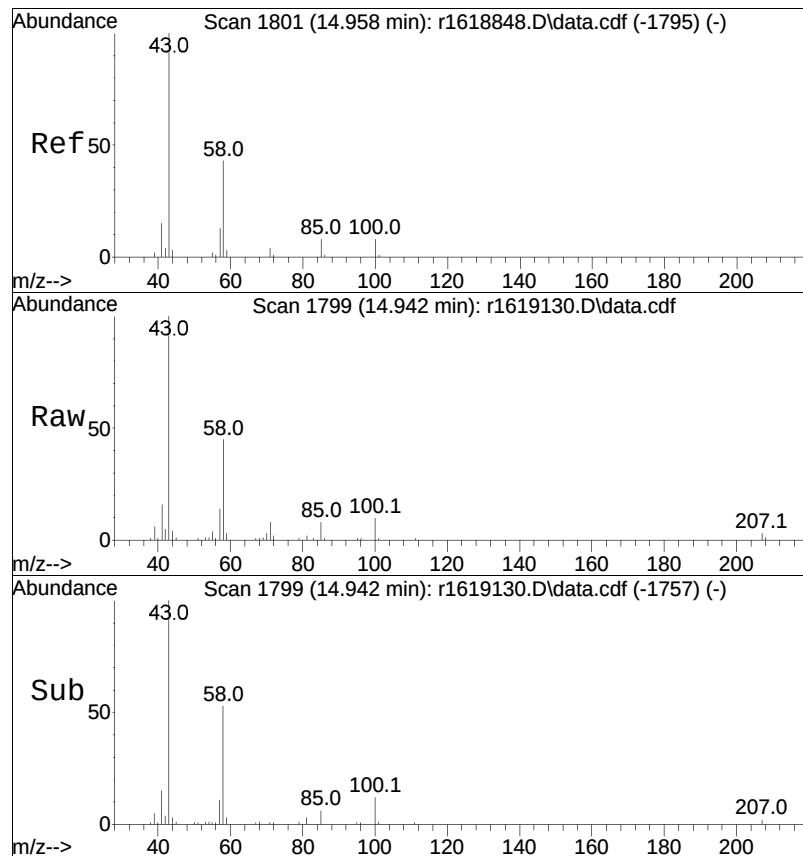




#68
toluene
Concen: 2.34 ppbV
RT: 14.625 min Scan# 1761
Delta R.T. 0.008 min
Lab File: r1619130.D
Acq: 16 Sep 2020 11:29 PM

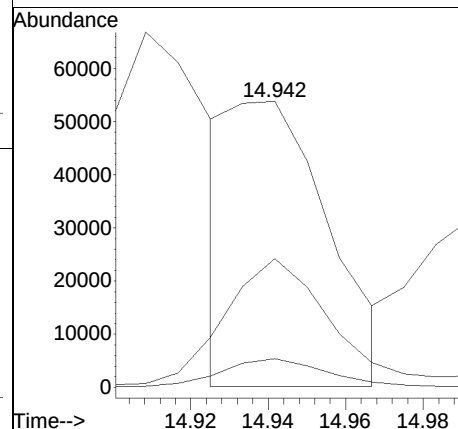
Tgt	Ion	Resp	Lower	Upper
91	100	165367		
92	63.7	50.6	75.8	

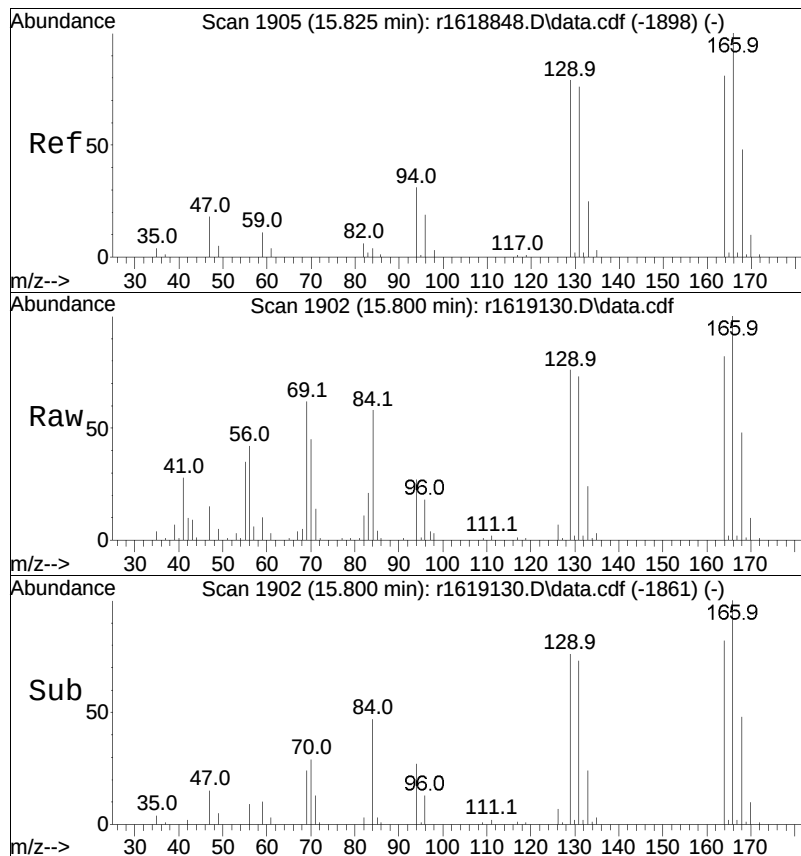




#72
 2-hexanone
 Concen: 1.89 ppbV m
 RT: 14.942 min Scan# 1799
 Delta R.T. 0.017 min
 Lab File: r1619130.D
 Acq: 16 Sep 2020 11:29 PM

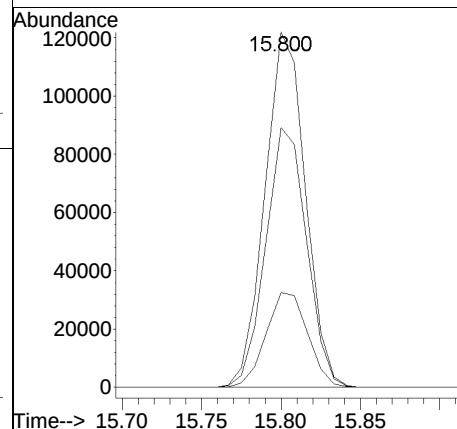
Tgt Ion	Ratio	Lower	Upper
43	100		
58	45.0	35.8	53.8
100	10.0	8.0	12.0

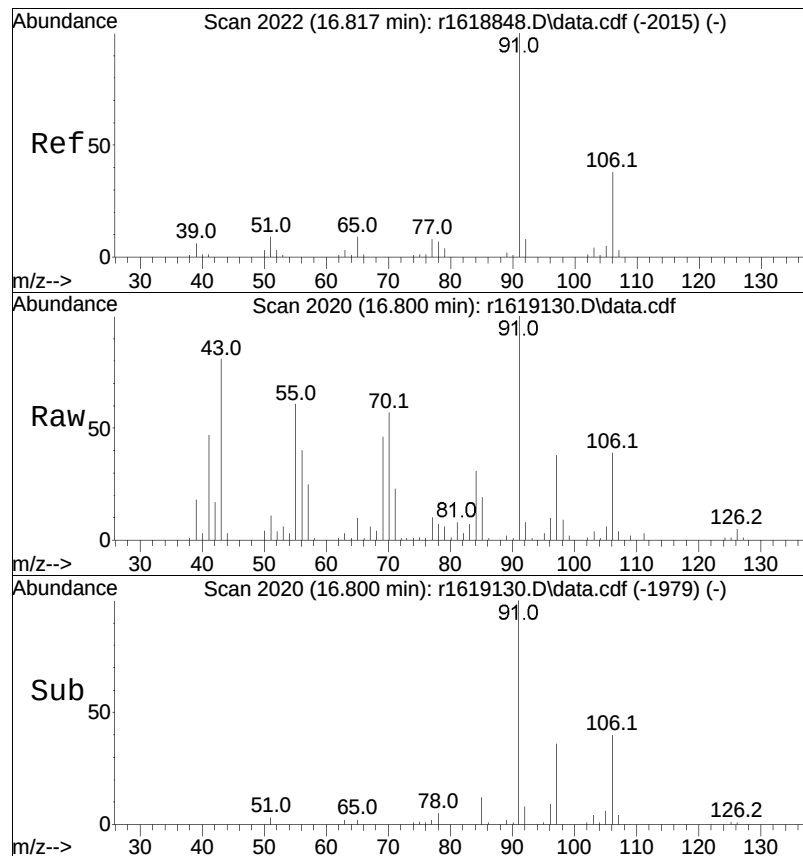




#78
 tetrachloroethene
 Concen: 7.07 ppbV
 RT: 15.800 min Scan# 1902
 Delta R.T. 0.008 min
 Lab File: r1619130.D
 Acq: 16 Sep 2020 11:29 PM

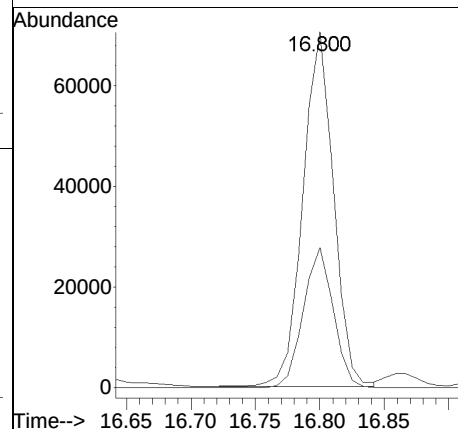
Tgt	Ion:166	Resp:	216318
Ion	Ratio	Lower	Upper
166	100		
131	73.1	61.0	91.6
94	26.7	24.6	37.0

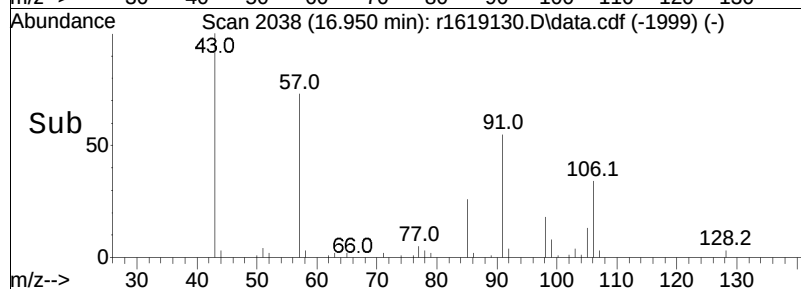
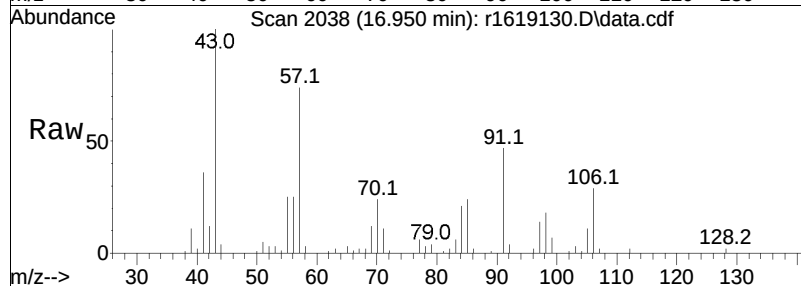
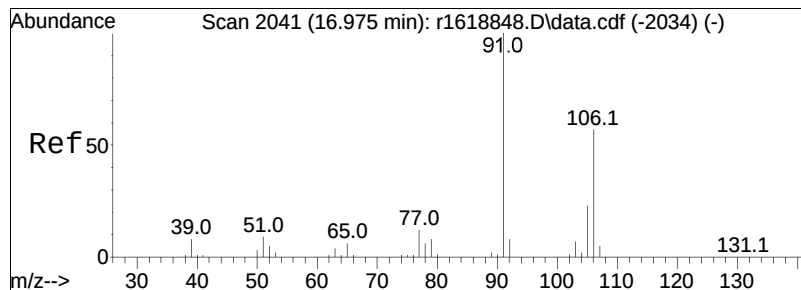




#81
ethylbenzene
Concen: 1.30 ppbV
RT: 16.800 min Scan# 2020
Delta R.T. 0.008 min
Lab File: r1619130.D
Acq: 16 Sep 2020 11:29 PM

Tgt	Ion	Resp	Lower	Upper
91	100	116435		
106	39.4	30.3	45.5	





#83

m+p-xylene

Concen: 3.18 ppbV

RT: 16.950 min Scan# 2038

Delta R.T. -0.008 min

Lab File: r1619130.D

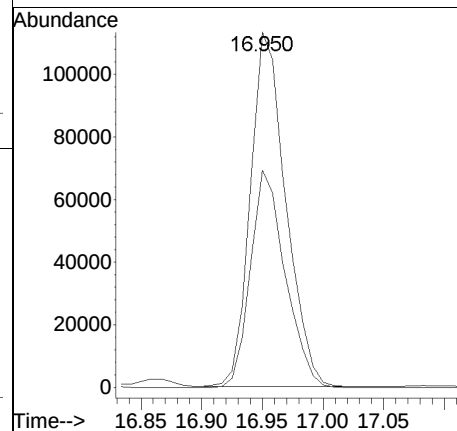
Acq: 16 Sep 2020 11:29 PM

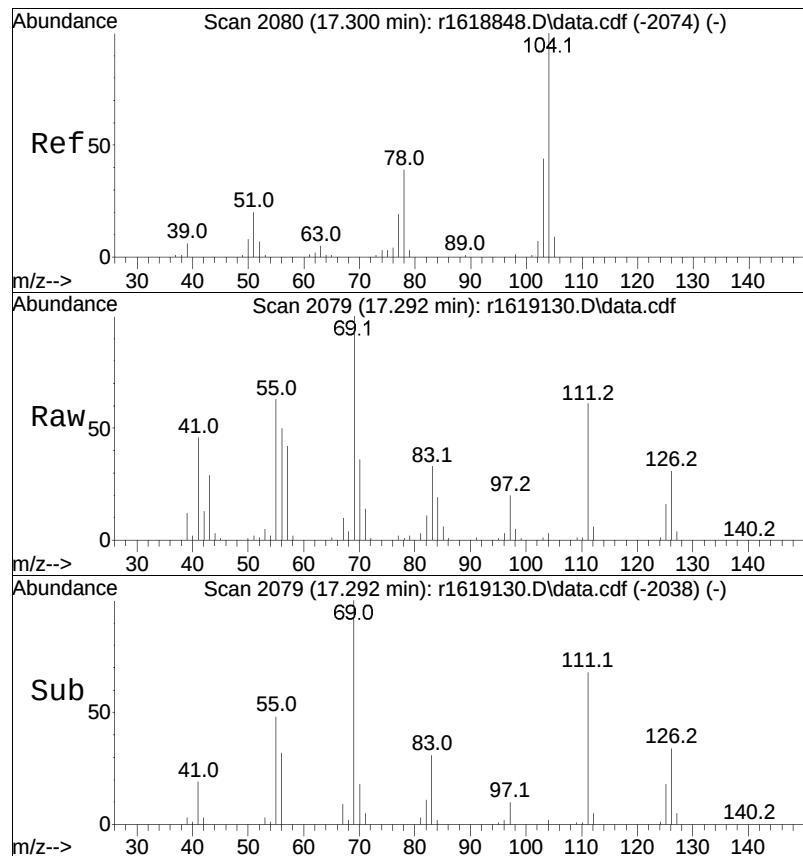
Tgt Ion: 91 Resp: 229953

Ion Ratio Lower Upper

91 100

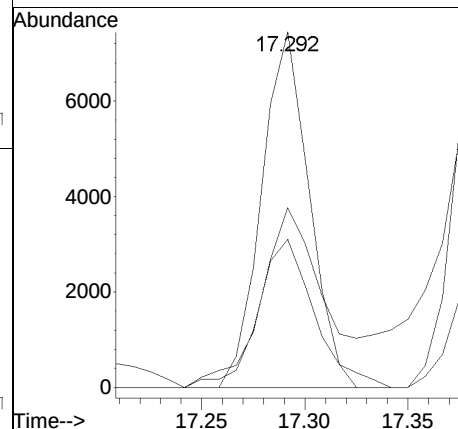
106 61.1 45.2 67.8

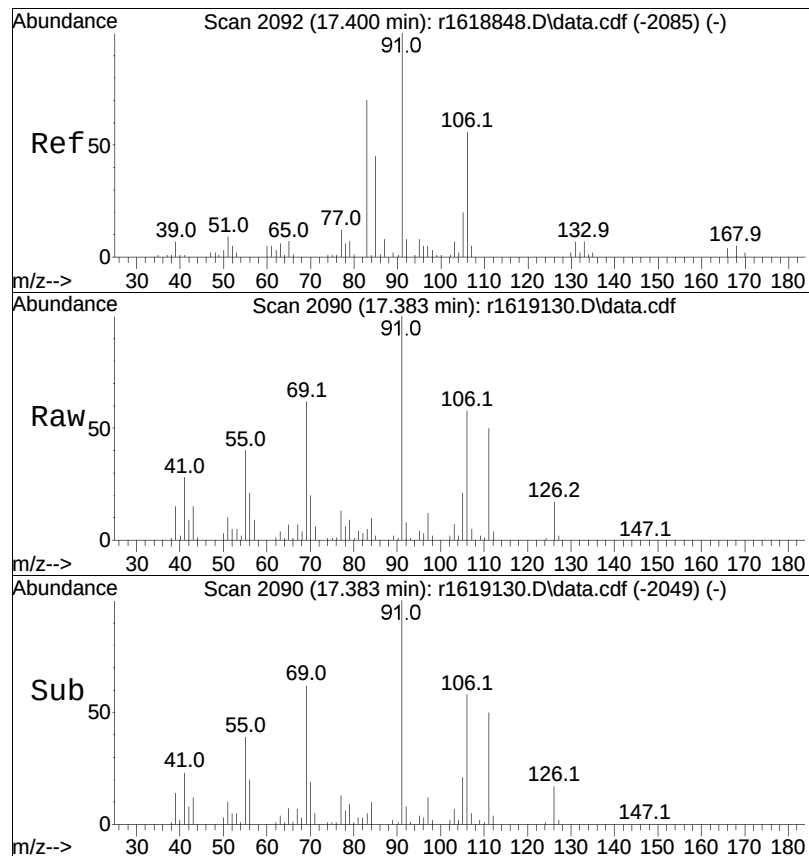




#85
 styrene
 Concen: 0.20 ppbV
 RT: 17.292 min Scan# 2079
 Delta R.T. 0.008 min
 Lab File: r1619130.D
 Acq: 16 Sep 2020 11:29 PM

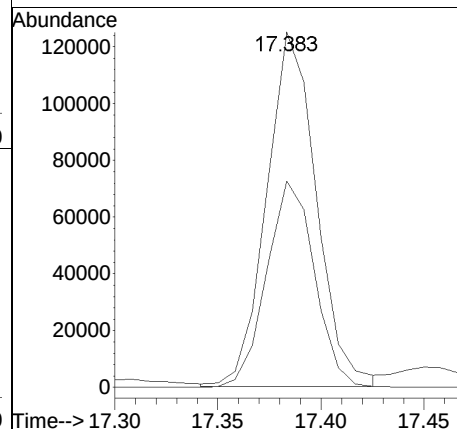
Tgt Ion:	104	Resp:	11942
Ion Ratio	Lower	Upper	
104	100		
103	41.6	35.3	52.9
78	50.6	31.5	47.3#

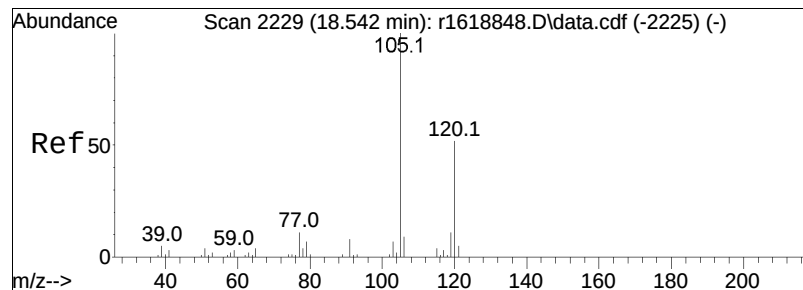




#87
 o-xylene
 Concen: 2.88 ppbV
 RT: 17.383 min Scan# 2090
 Delta R.T. 0.008 min
 Lab File: r1619130.D
 Acq: 16 Sep 2020 11:29 PM

Tgt	Ion	Resp	Lower	Upper
91	100	209595		
106	58.1	44.6	66.8	





#97

1,3,5-trimethylbenzene

Concen: 2.04 ppbV

RT: 18.533 min Scan# 2228

Delta R.T. 0.008 min

Lab File: r1619130.D

Acq: 16 Sep 2020 11:29 PM

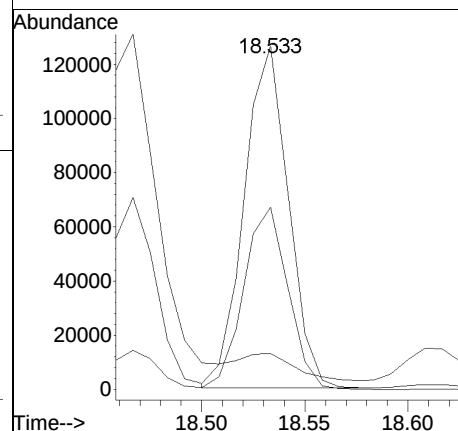
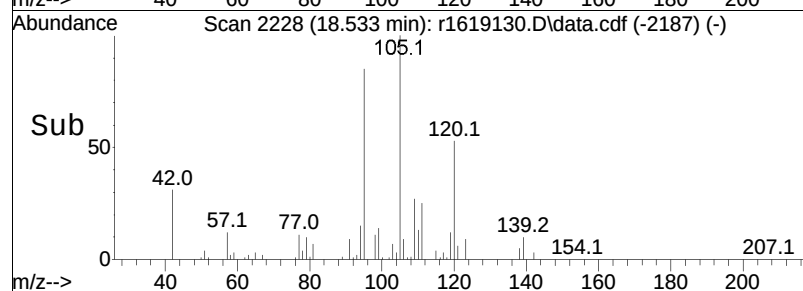
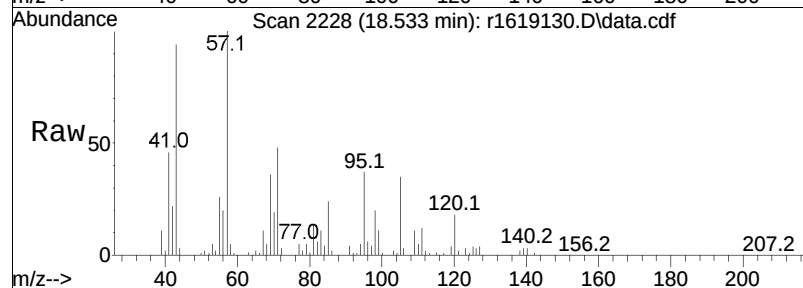
Tgt Ion:105 Resp: 188086

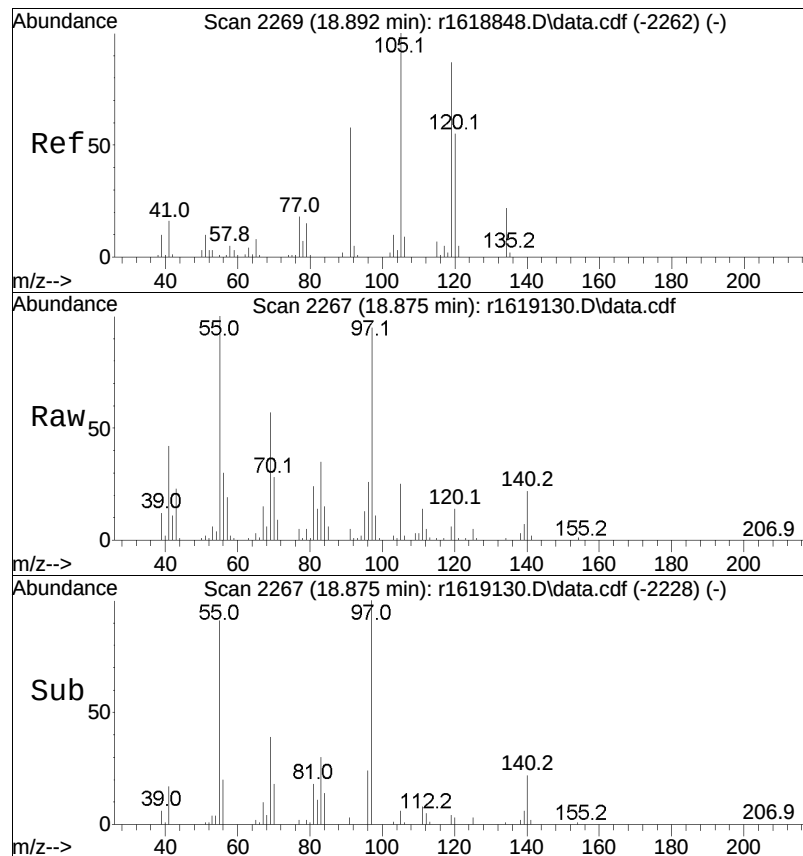
Ion Ratio Lower Upper

105 100

120 53.0 41.2 61.8

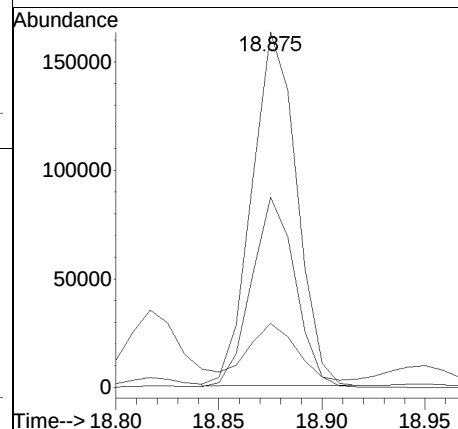
91 10.5 6.7 10.1#





#99
 1,2,4-trimethylbenzene
 Concen: 2.84 ppbV
 RT: 18.875 min Scan# 2267
 Delta R.T. 0.008 min
 Lab File: r1619130.D
 Acq: 16 Sep 2020 11:29 PM

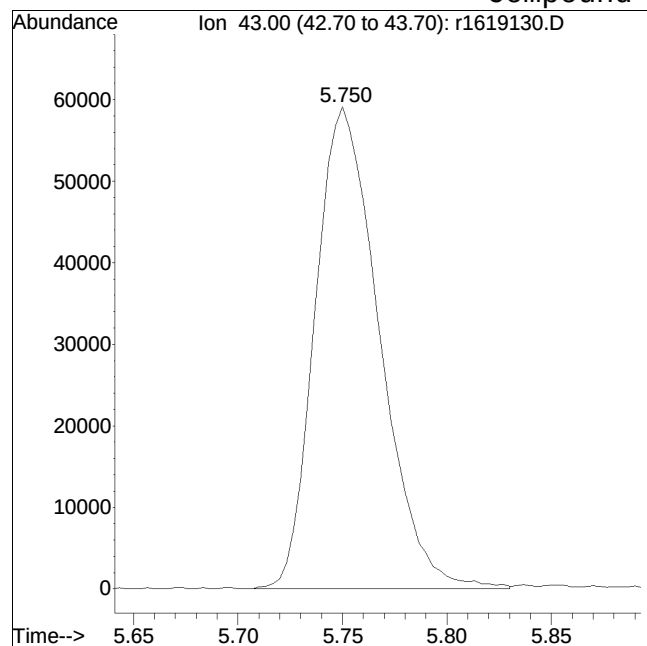
Tgt	Ion:105	Resp:	246166
Ion	Ratio	Lower	Upper
105	100		
120	53.5	44.0	66.0
91	18.0	46.2	69.4#



Manual Integration Report

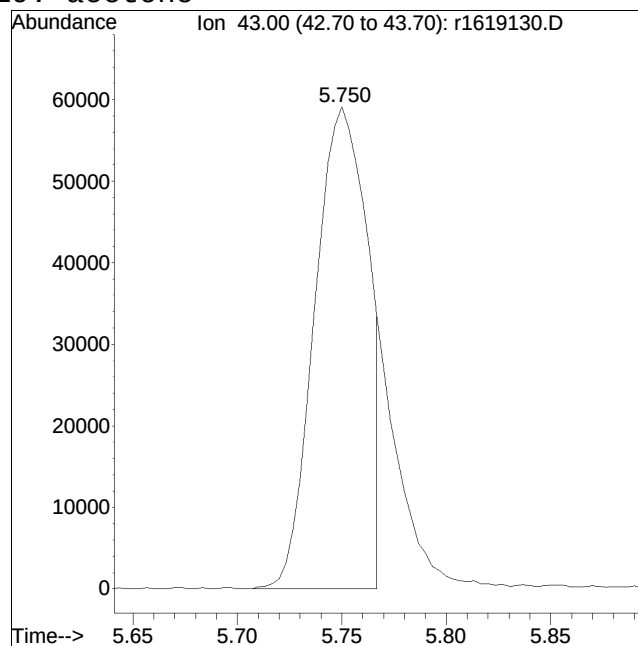
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619130.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:1: 9 Instrument :
Sample : L2037647-05,3,250,250 Quant Date : 9/17/2020 5:41 am

Compound #19: acetone



Original Peak Response = 126697

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

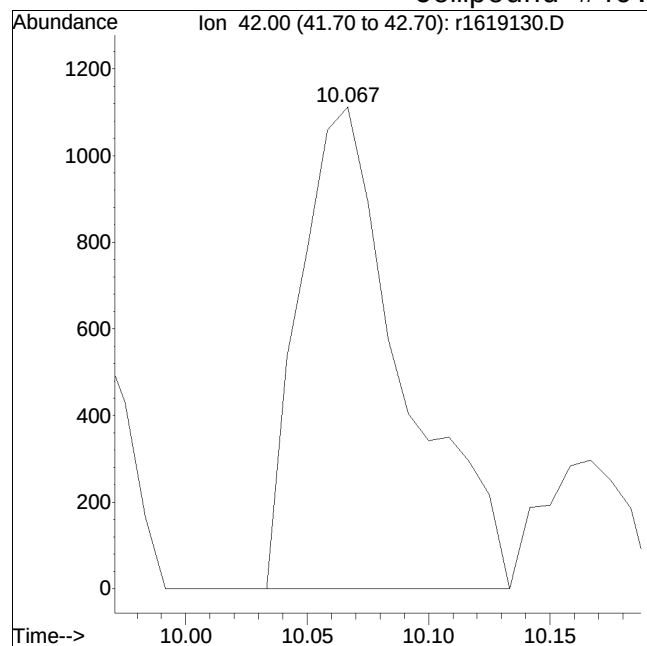


Manual Peak Response = 105181 M6

Manual Integration Report

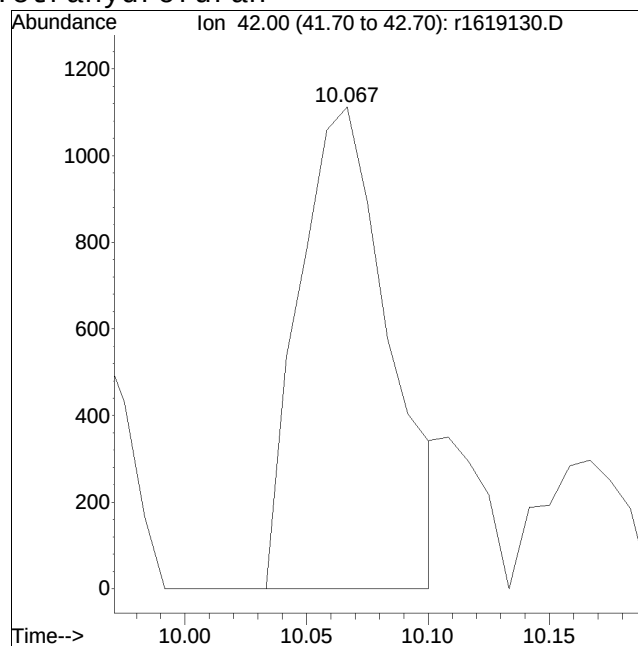
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619130.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:1: 9 Instrument :
Sample : L2037647-05,3,250,250 Quant Date : 9/17/2020 5:41 am

Compound #40: Tetrahydrofuran



Original Peak Response = 3283

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

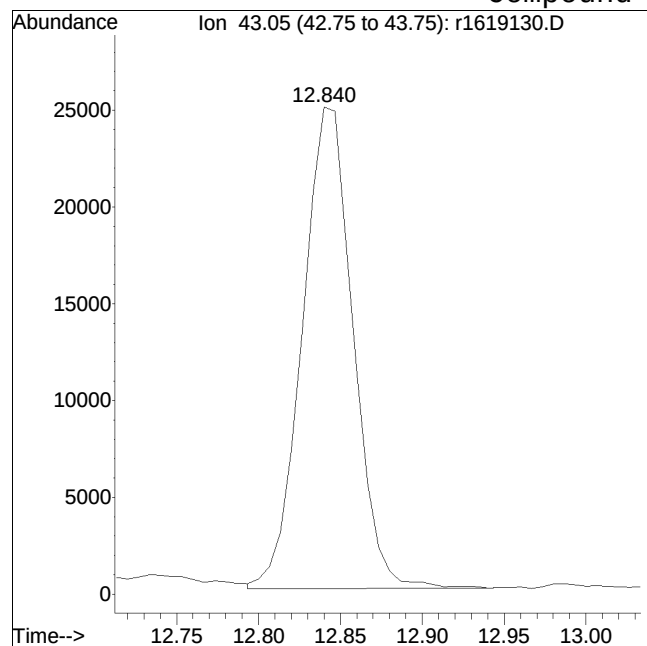


Manual Peak Response = 2852 M6

Manual Integration Report

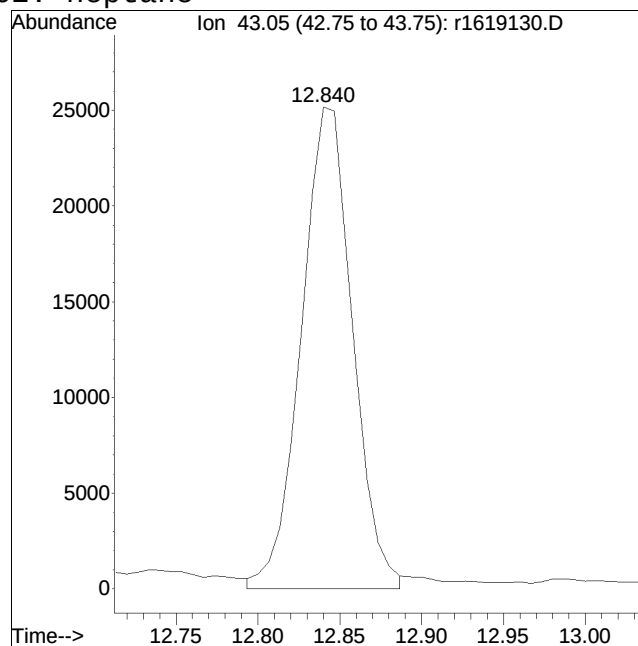
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619130.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:1: 9 Instrument :
Sample : L2037647-05,3,250,250 Quant Date : 9/17/2020 5:41 am

Compound #62: heptane



Original Peak Response = 53642

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

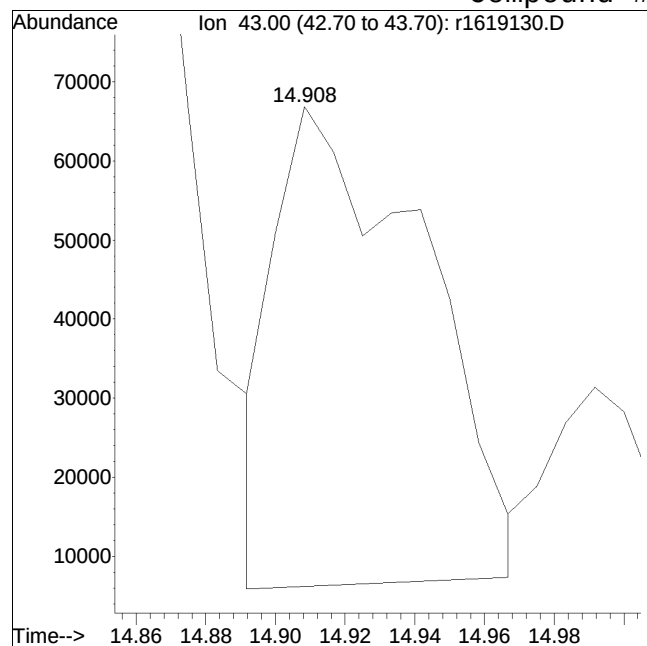


Manual Peak Response = 54774 M6

Manual Integration Report

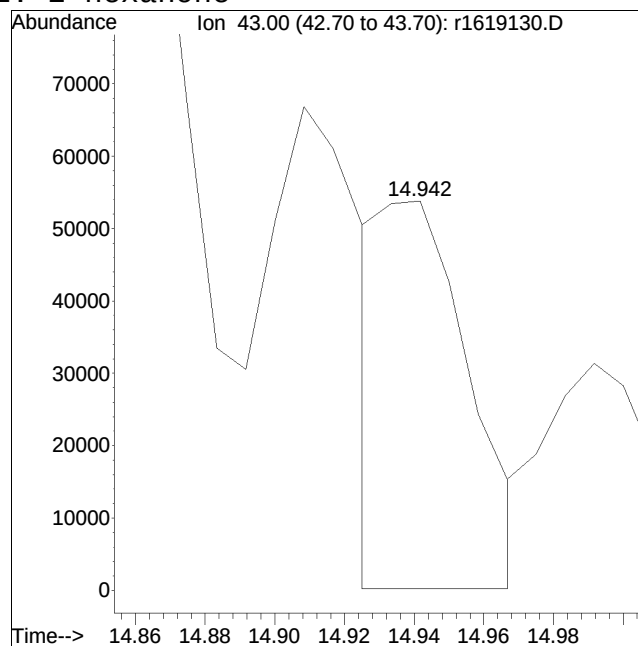
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619130.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:1: 9 Instrument :
Sample : L2037647-05,3,250,250 Quant Date : 9/17/2020 5:41 am

Compound #72: 2-hexanone



Original Peak Response = 179753

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 94316 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619131.D
 Acq On : 17 Sep 2020 12:09 AM
 Operator : AIRLAB16:TS
 Sample : L2037647-06,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:11:33 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.408	49	236351	10.000	ppbV	0.02
Standard Area = 289019			Recovery =		81.78%	
43) 1,4-difluorobenzene	11.680	114	785653	10.000	ppbV	0.01
Standard Area = 862875			Recovery =		91.05%	
67) chlorobenzene-D5	16.408	54	103041	10.000	ppbV	0.00
Standard Area = 122360			Recovery =		84.21%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.874	85	16055	0.717	ppbV	98
6) chloromethane	0.000		0	N.D.	d	
7) Freon-114	0.000		0	N.D.	d	
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.468	54	1453	0.130	ppbV	97
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.200	31	6260	0.739	ppbV	91
17) vinyl bromide	0.000		0	N.D.		
19) acetone	0.000		0	N.D.	d	
21) trichlorofluoromethane	5.933	101	22424	1.234	ppbV	97
22) isopropyl alcohol	6.083	45	14281	0.550	ppbV #	90
26) 1,1-dichloroethene	0.000		0	N.D.	d	
27) tertiary butyl alcohol	6.856	59	3918	0.207	ppbV #	83
28) methylene chloride	6.862	49	1620	0.098	ppbV	99
29) 3-chloropropene	6.982		0	N.D.		
30) carbon disulfide	7.144	76	92466	2.138	ppbV #	57
31) Freon 113	7.192	101	2067	0.083	ppbV	97
32) trans-1,2-dichloroethene	7.983	61	1364	0.077	ppbV	95
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	8.750	43	42976	1.330	ppbV	98
37) cis-1,2-dichloroethene	9.217	61	8165	0.536	ppbV	93
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.575	83	124904	5.465	ppbV	99
40) Tetrahydrofuran	10.075	42	2600	0.114	ppbV	95
42) 1,2-dichloroethane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619131.D
 Acq On : 17 Sep 2020 12:09 AM
 Operator : AIRLAB16:TS
 Sample : L2037647-06,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:11:33 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
44) hexane	9.483	57	13243	0.495	ppbV	#	52
48) 1,1,1-trichloroethane	10.708		0	N.D.			
50) benzene	11.233	78	31197	0.539	ppbV		100
52) carbon tetrachloride	11.413		0	N.D.			
53) cyclohexane	11.553	56	5666	0.196	ppbV		99
56) 1,2-dichloropropane	0.000		0	N.D.			
57) bromodichloromethane	0.000		0	N.D.	d		
58) 1,4-dioxane	12.520		0	N.D.			
59) trichloroethene	12.473	130	132263	5.306	ppbV		97
60) 2,2,4-trimethylpentane	12.520	57	78982	0.862	ppbV		97
62) heptane	12.847	43	26746M6	0.586	ppbV		
63) cis-1,3-dichloropropene	0.000		0	N.D.			
64) 4-methyl-2-pentanone	13.575	43	7940	0.152	ppbV		95
65) trans-1,3-dichloropropene	0.000		0	N.D.			
66) 1,1,2-trichloroethane	14.383		0	N.D.			
68) toluene	14.633	91	86577	1.356	ppbV		98
72) 2-hexanone	14.950	43	16368M6	0.363	ppbV		
74) dibromochloromethane	0.000		0	N.D.			
75) 1,2-dibromoethane	0.000		0	N.D.			
78) tetrachloroethene	15.800	166	769678	27.910	ppbV		91
80) chlorobenzene	0.000		0	N.D.	d		
81) ethylbenzene	16.800	91	176330	2.181	ppbV		98
83) m+p-xylene	16.950	91	606109	9.293	ppbV		95
84) bromoform	0.000		0	N.D.			
85) styrene	17.292	104	9991	0.182	ppbV		95
86) 1,1,2,2-tetrachloroethane	17.367		0	N.D.			
87) o-xylene	17.383	91	270955	4.130	ppbV		97
96) 4-ethyl toluene	18.467	105	27692M6	0.283	ppbV		
97) 1,3,5-trimethylbenzene	18.525	105	46269	0.557	ppbV		99
99) 1,2,4-trimethylbenzene	18.875	105	170204	2.180	ppbV	#	62
101) Benzyl Chloride	0.000		0	N.D.	d		
102) 1,3-dichlorobenzene	19.058		0	N.D.			
103) 1,4-dichlorobenzene	19.058		0	N.D.			
107) 1,2-dichlorobenzene	19.350		0	N.D.			
115) 1,2,4-trichlorobenzene	20.883		0	N.D.			
119) hexachlorobutadiene	0.000		0	N.D.			

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619131.D
 Acq On : 17 Sep 2020 12:09 AM
 Operator : AIRLAB16:TS
 Sample : L2037647-06,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:11:33 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

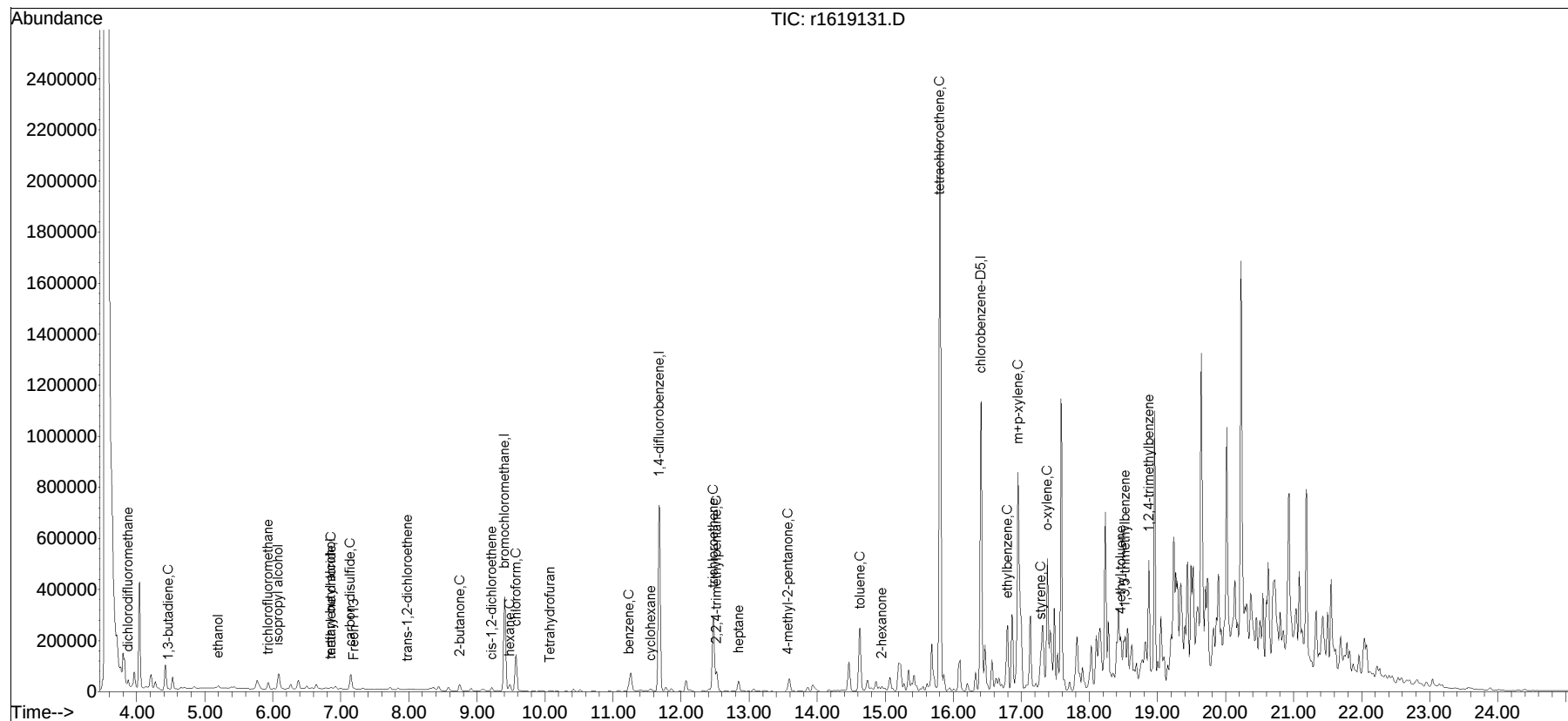
CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

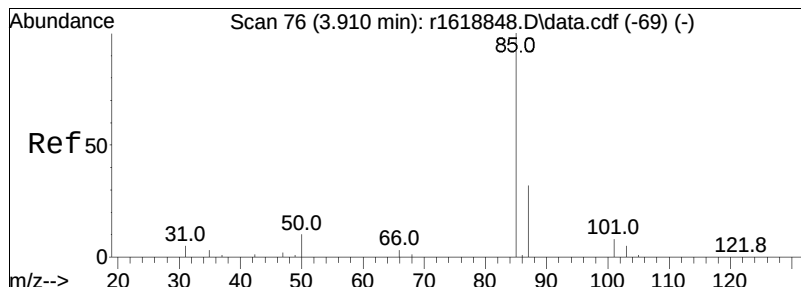
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : T015-NY - .s\Data\AirLab16\2020\09\200916T\r1619115.D

Data Path : 0:\Forensics\Data\AirLab16\2020\09\200916T\
Data File : r1619131.D
Acq On : 17 Sep 2020 12:09 AM
Operator : AIRLAB16:TS
Sample : L2037647-06,3,250,250
Misc : WG1410723,ICAL17102
ALS Vial : 0 Sample Multiplier: 1

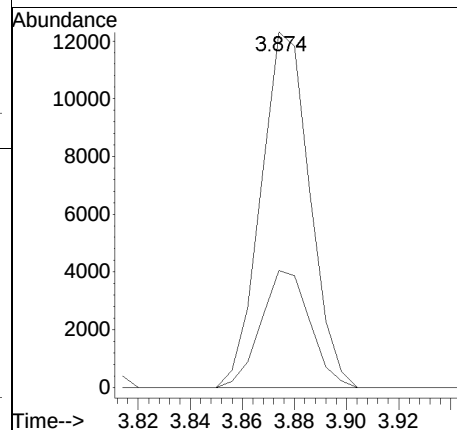
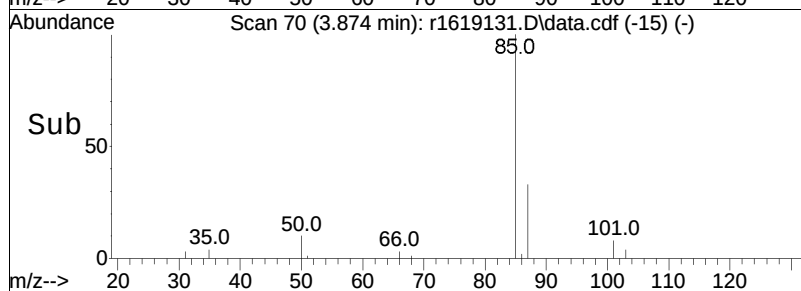
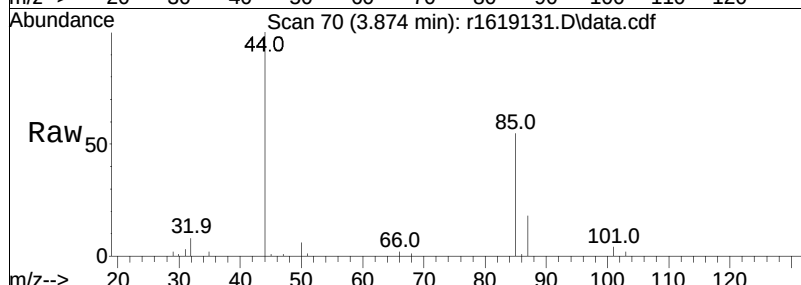
Quant Time: Sep 17 08:11:33 2020
Quant Method : 0:\Forensics\Data\AirLab16\2020\09\200916T\TFS16_200902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Sep 16 13:18:40 2020
Response via : Initial Calibration

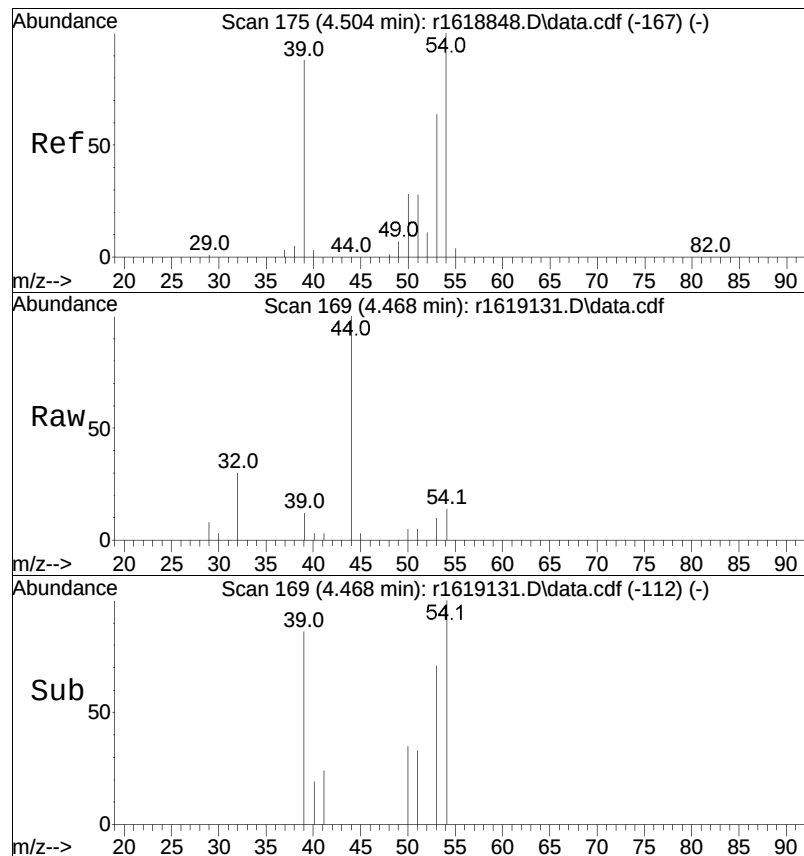




#5
dichlorodifluoromethane
Concen: 0.72 ppbV
RT: 3.874 min Scan# 70
Delta R.T. 0.000 min
Lab File: r1619131.D
Acq: 17 Sep 2020 12:09 AM

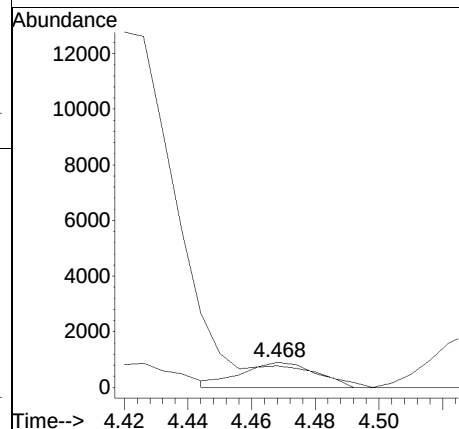
Tgt Ion: 85 Resp: 16055
Ion Ratio Lower Upper
85 100
87 32.9 25.4 38.2

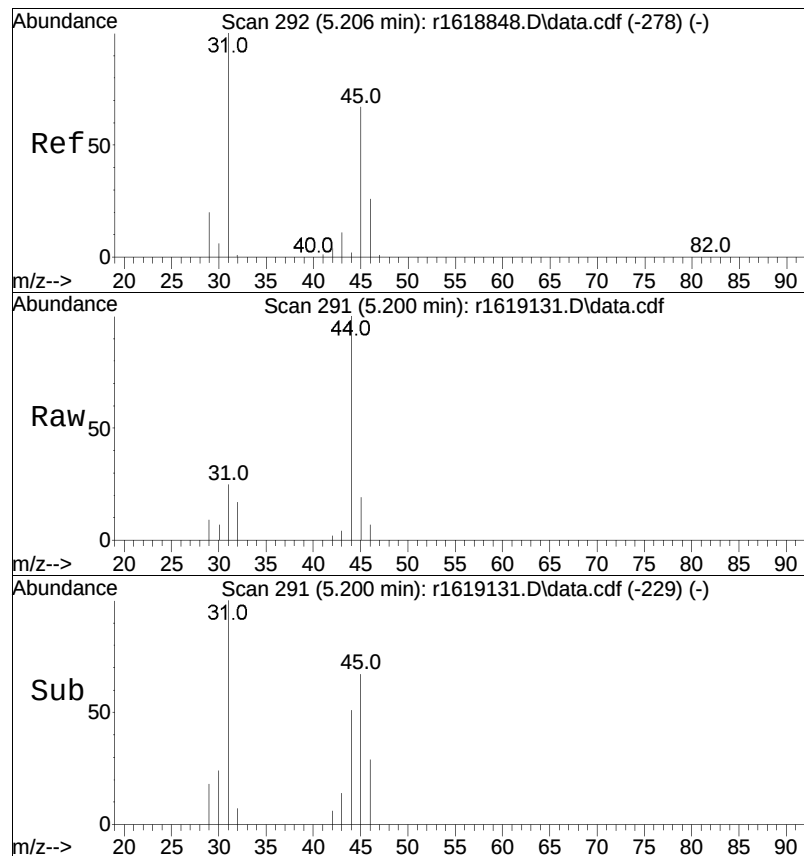




#10
 1,3-butadiene
 Concen: 0.13 ppbV
 RT: 4.468 min Scan# 169
 Delta R.T. 0.012 min
 Lab File: r1619131.D
 Acq: 17 Sep 2020 12:09 AM

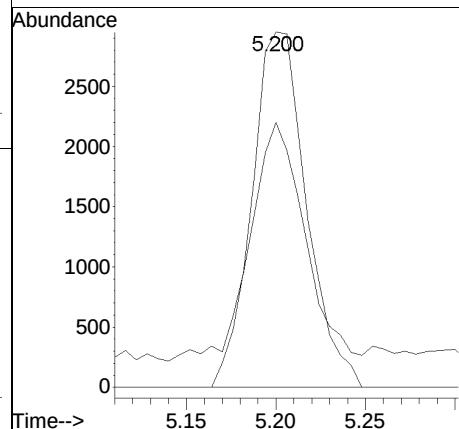
Tgt Ion	Ratio	Lower	Upper
54	100		
39	86.1	70.9	106.3

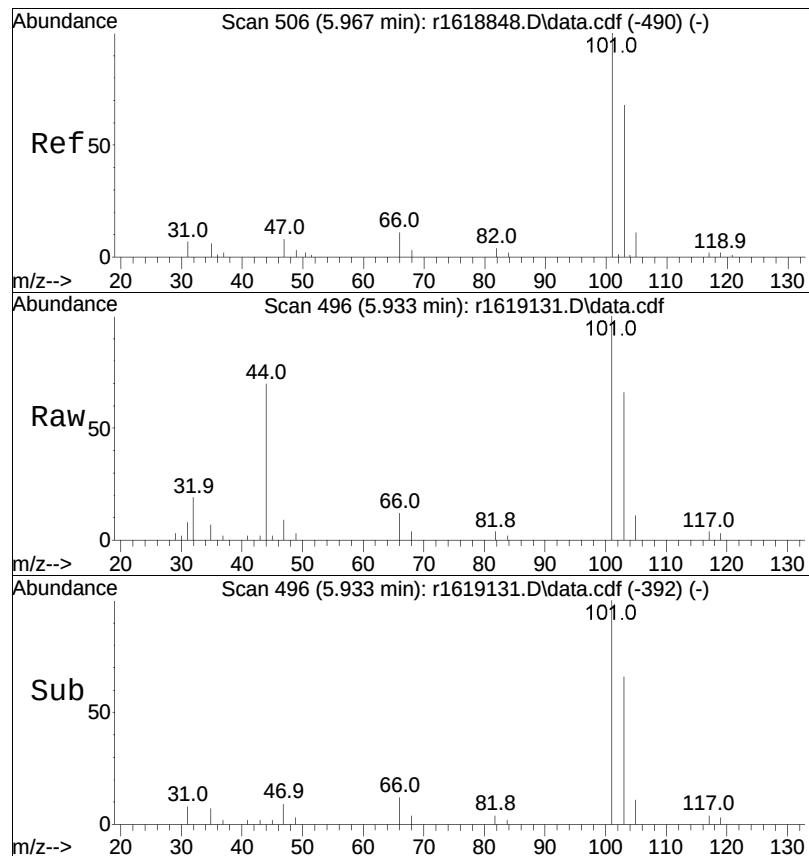




#15
ethanol
Concen: 0.74 ppbV
RT: 5.200 min Scan# 291
Delta R.T. 0.042 min
Lab File: r1619131.D
Acq: 17 Sep 2020 12:09 AM

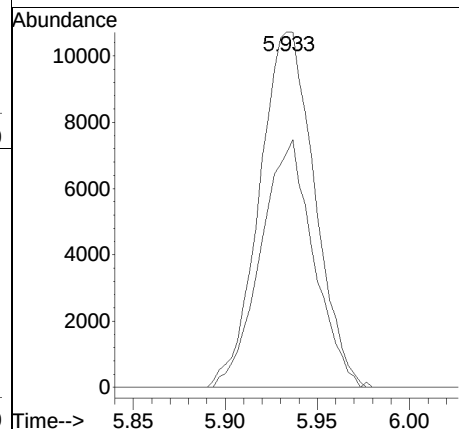
Tgt Ion	Ratio	Lower	Upper
31	100		
45	74.5	54.0	81.0

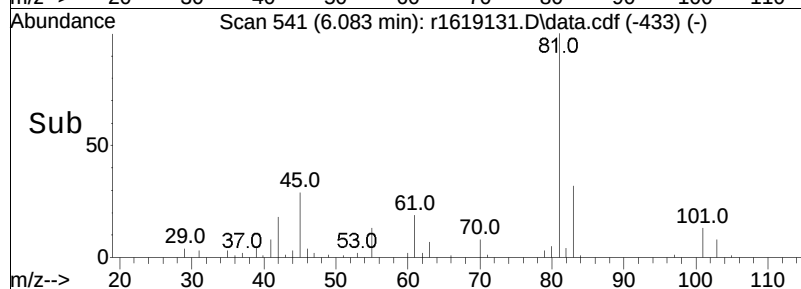
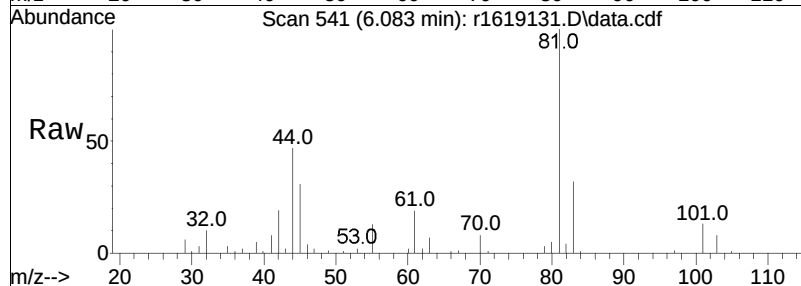
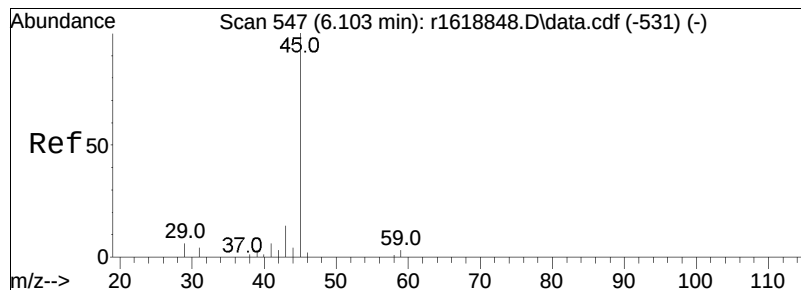




#21
trichlorofluoromethane
Concen: 1.23 ppbV
RT: 5.933 min Scan# 496
Delta R.T. 0.017 min
Lab File: r1619131.D
Acq: 17 Sep 2020 12:09 AM

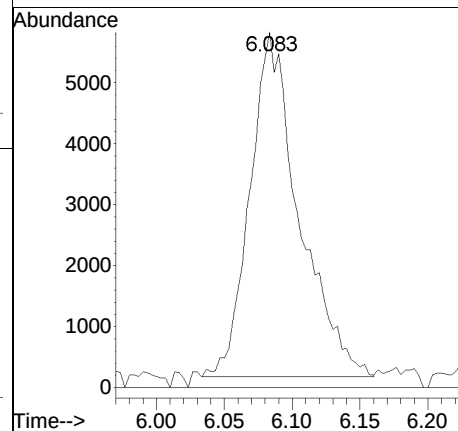
Tgt Ion	Ratio	Lower	Upper
101	100		
103	66.0	54.6	82.0

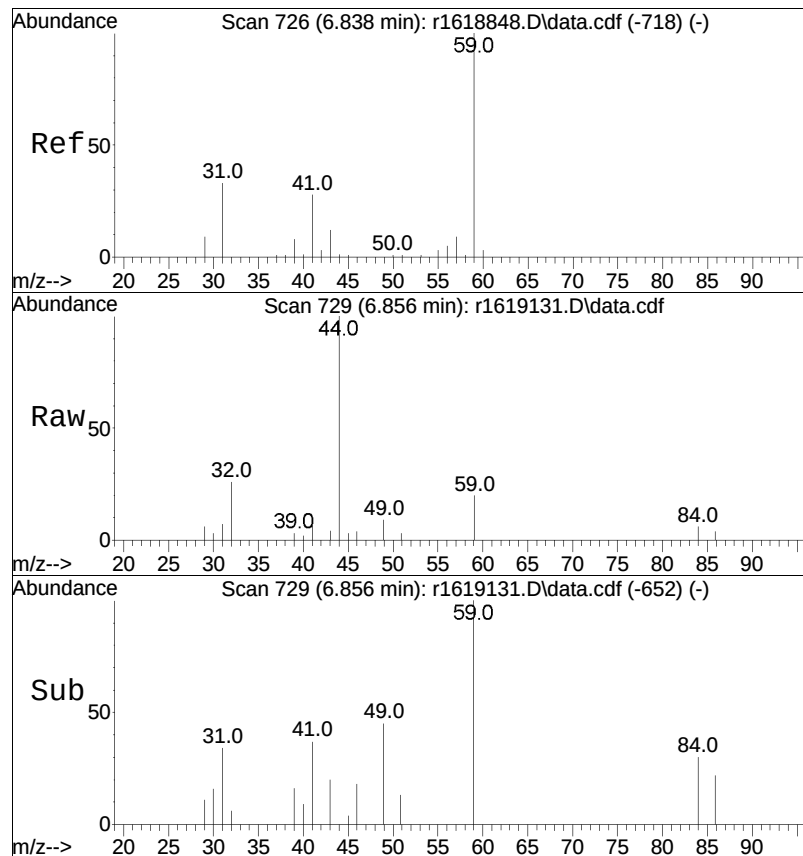




#22
isopropyl alcohol
Concen: 0.55 ppbV
RT: 6.083 min Scan# 541
Delta R.T. 0.030 min
Lab File: r1619131.D
Acq: 17 Sep 2020 12:09 AM

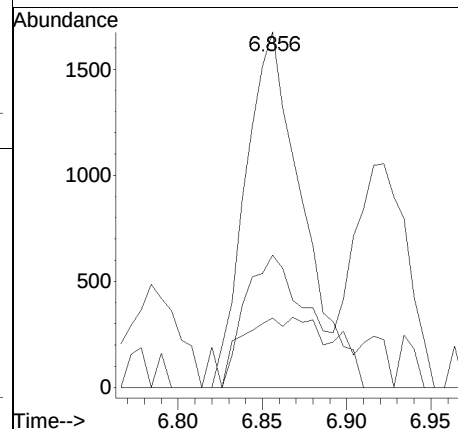
Tgt Ion	Ratio	Lower	Upper
45	100		
59	0.0	2.7	4.1#

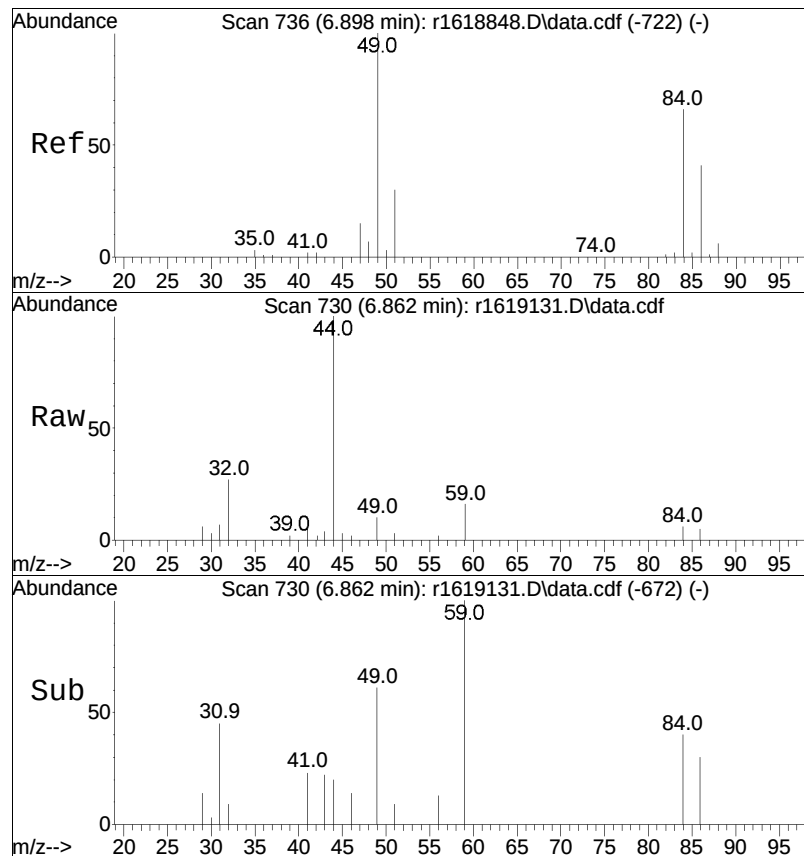




#27
 tertiary butyl alcohol
 Concen: 0.21 ppbV
 RT: 6.856 min Scan# 729
 Delta R.T. 0.072 min
 Lab File: r1619131.D
 Acq: 17 Sep 2020 12:09 AM

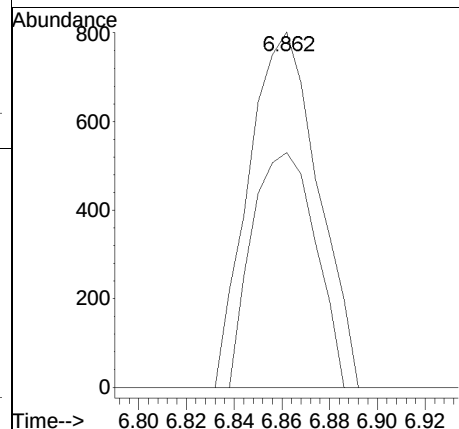
Tgt Ion	Ratio	Lower	Upper
59	100		
41	37.3	22.4	33.6#
43	19.5	10.2	15.2#

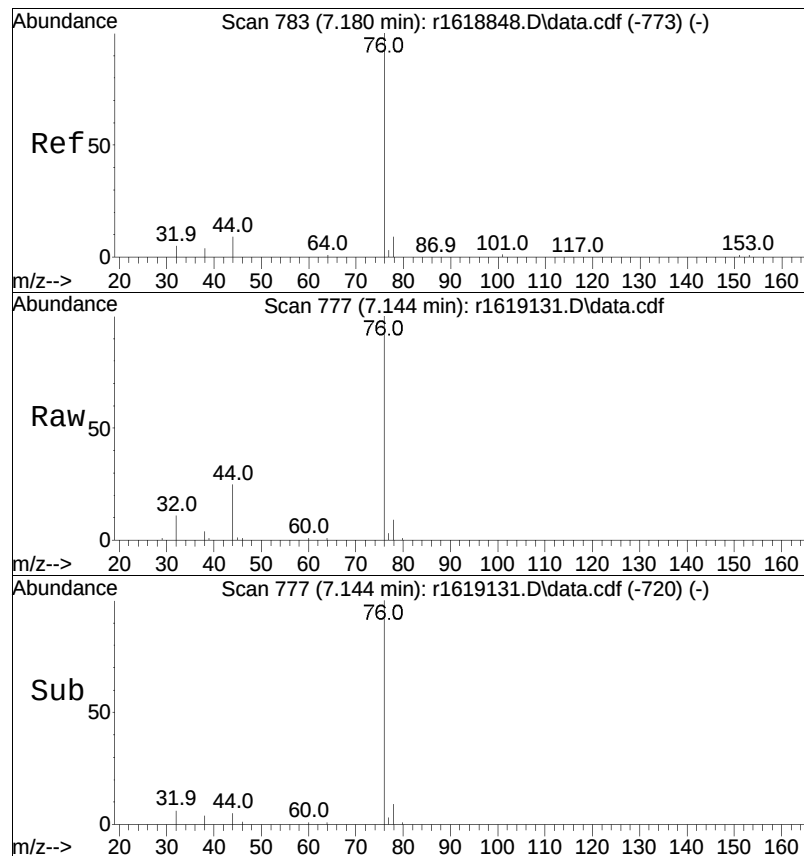




#28
 methylene chloride
 Concen: 0.10 ppbV
 RT: 6.862 min Scan# 730
 Delta R.T. 0.012 min
 Lab File: r1619131.D
 Acq: 17 Sep 2020 12:09 AM

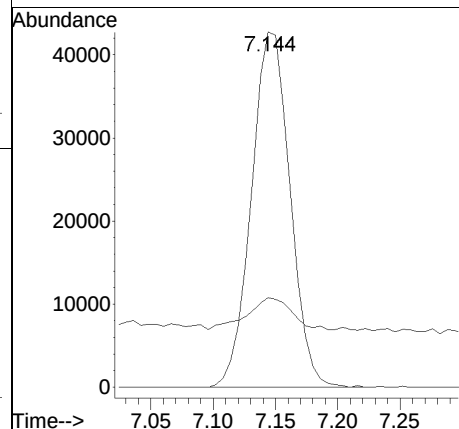
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	1620				
Ion Ratio	100	66.1			
			53.2		79.8

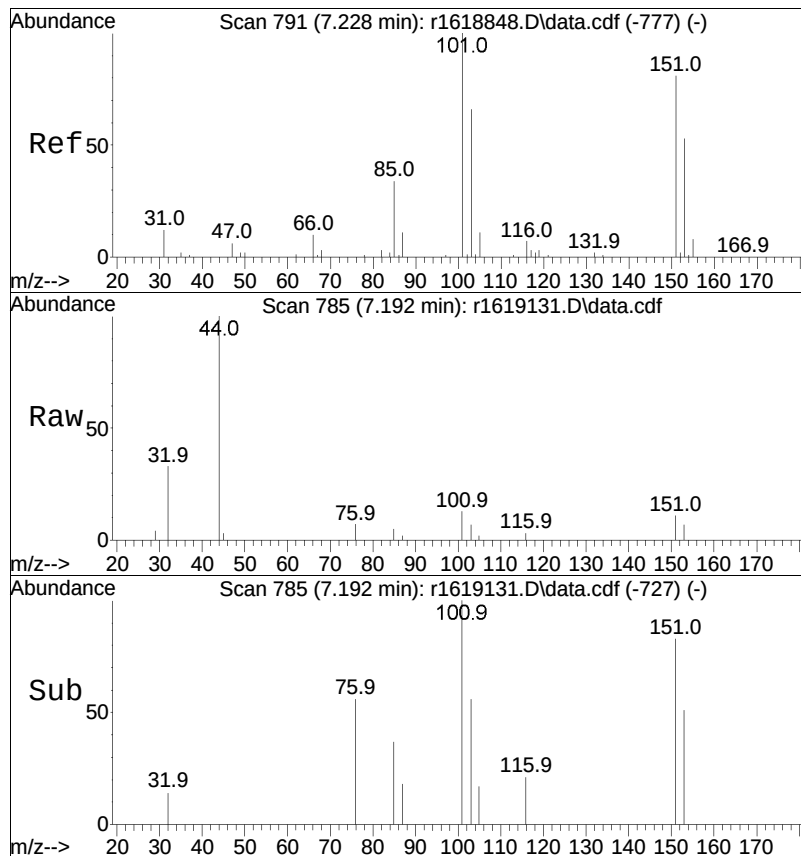




#30
 carbon disulfide
 Concen: 2.14 ppbV
 RT: 7.144 min Scan# 777
 Delta R.T. 0.012 min
 Lab File: r1619131.D
 Acq: 17 Sep 2020 12:09 AM

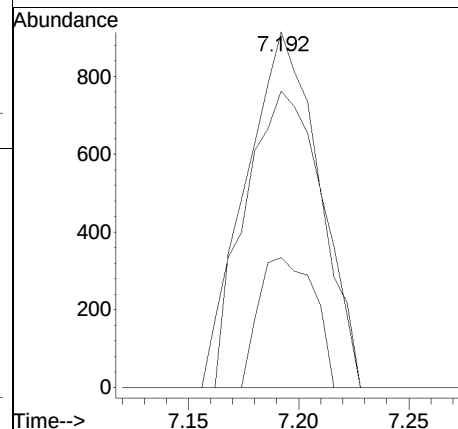
Tgt Ion	Ratio	Lower	Upper
76	100		
44	25.3	7.7	11.5#

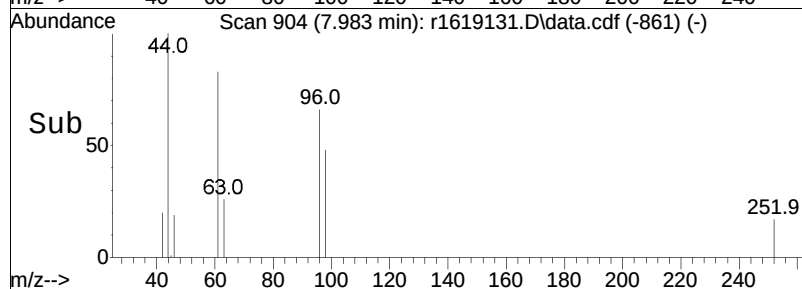
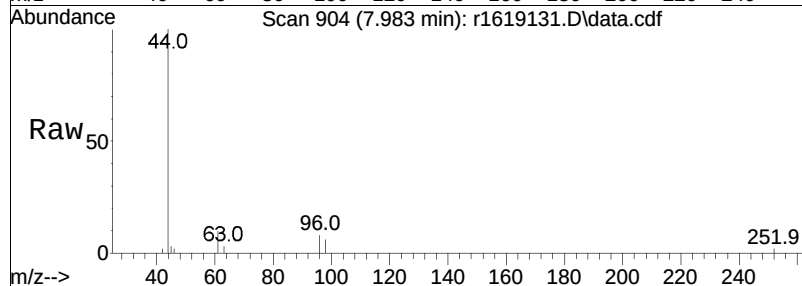
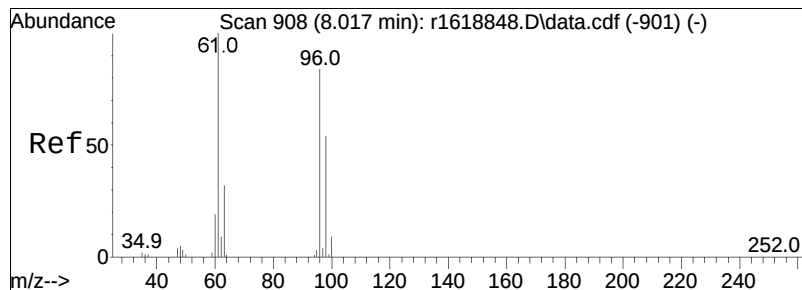




#31
 Freon 113
 Concen: 0.08 ppbV
 RT: 7.192 min Scan# 785
 Delta R.T. 0.018 min
 Lab File: r1619131.D
 Acq: 17 Sep 2020 12:09 AM

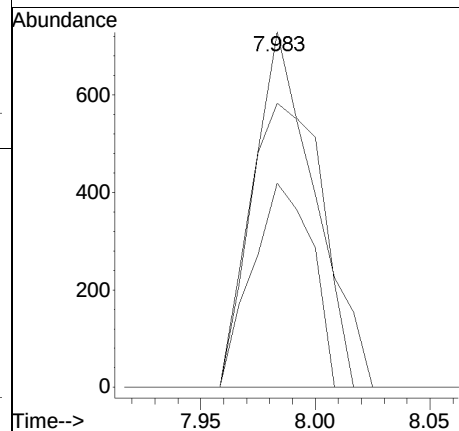
Tgt	Ion:101	Resp:	2067
Ion	Ratio	Lower	Upper
101	100		
85	36.5	27.5	41.3
151	83.4	65.1	97.7

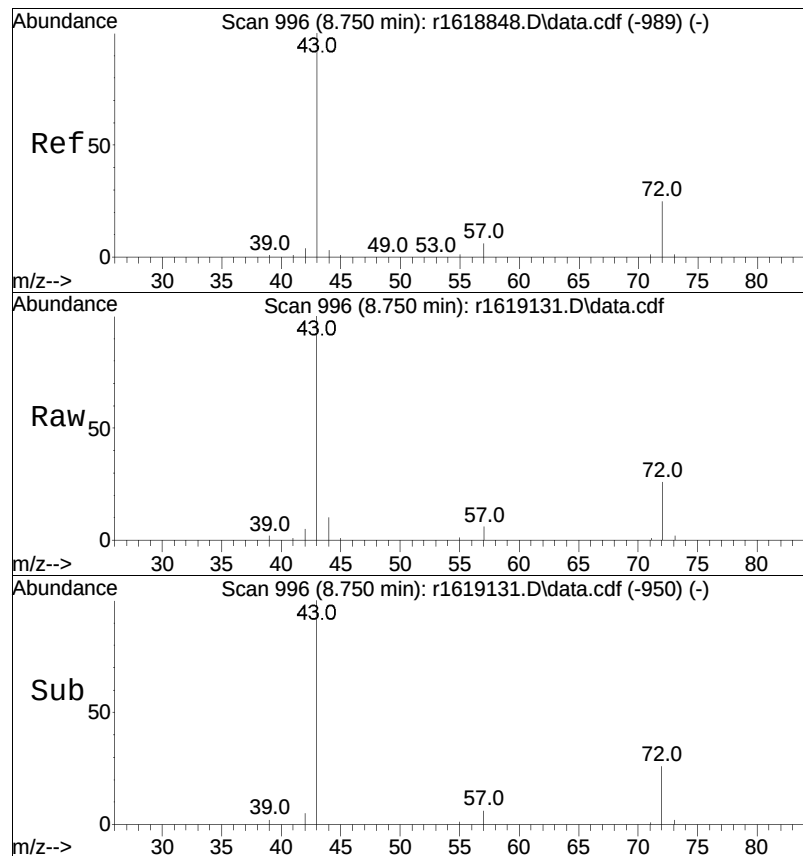




#32
 trans-1,2-dichloroethene
 Concen: 0.08 ppbV
 RT: 7.983 min Scan# 904
 Delta R.T. 0.008 min
 Lab File: r1619131.D
 Acq: 17 Sep 2020 12:09 AM

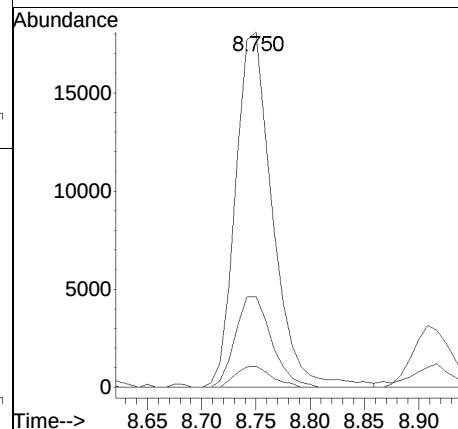
Tgt Ion	Ratio	Lower	Upper
61	100		
96	80.0	67.0	100.4
98	57.5	43.0	64.4

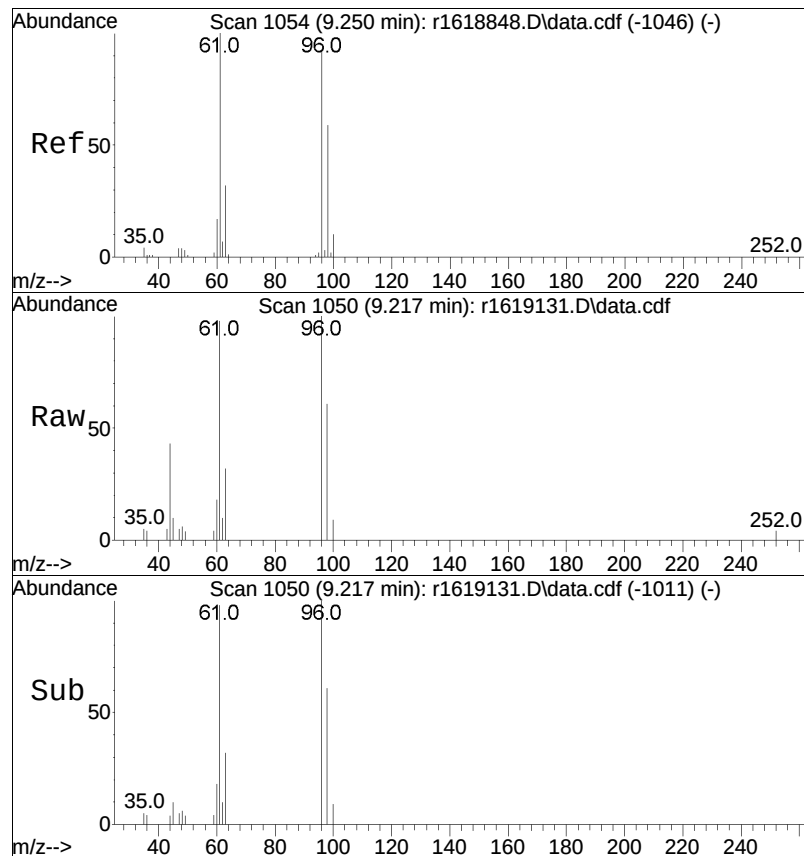




#36
 2-butanone
 Concen: 1.33 ppbV
 RT: 8.750 min Scan# 996
 Delta R.T. 0.050 min
 Lab File: r1619131.D
 Acq: 17 Sep 2020 12:09 AM

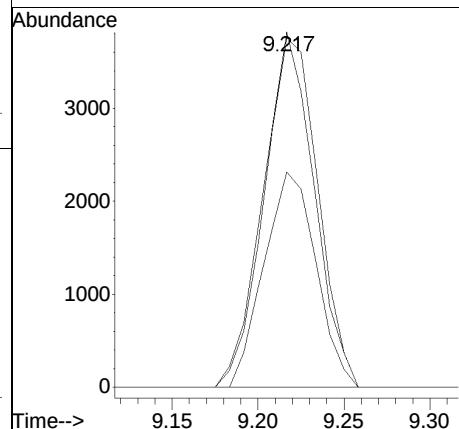
Tgt	Ion: 43	Resp:	42976
Ion	Ratio	Lower	Upper
43	100		
72	25.6	19.8	29.6
57	6.0	4.6	6.8

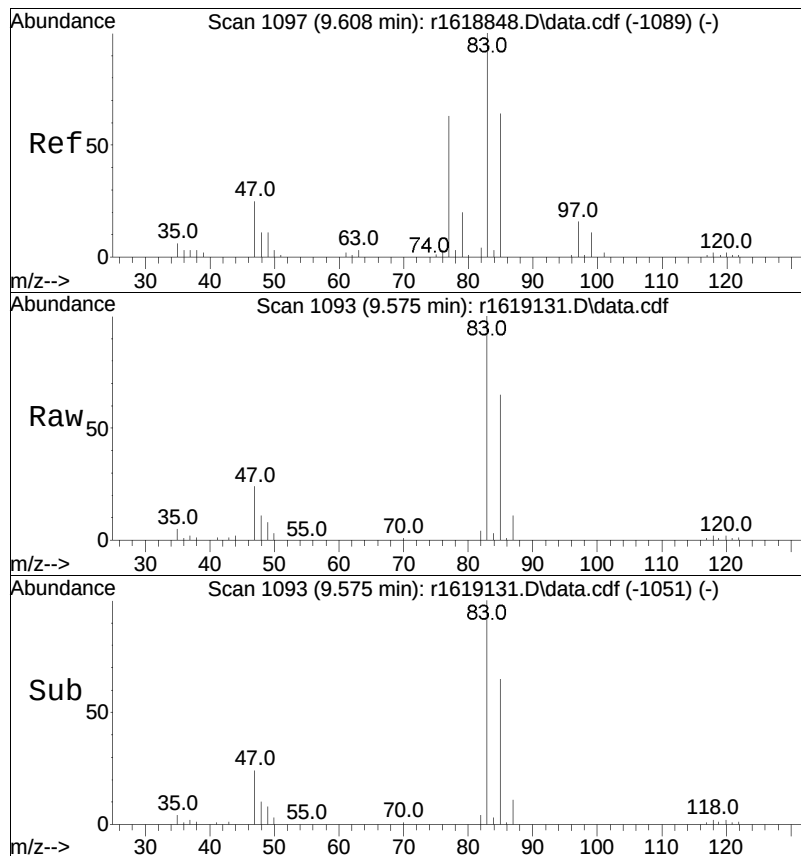




#37
 cis-1,2-dichloroethene
 Concen: 0.54 ppbV
 RT: 9.217 min Scan# 1050
 Delta R.T. 0.008 min
 Lab File: r1619131.D
 Acq: 17 Sep 2020 12:09 AM

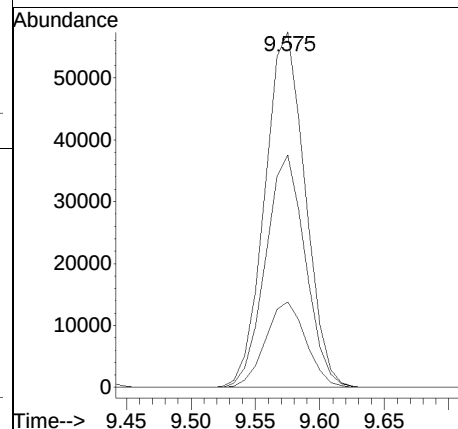
Tgt Ion:	61	Resp:	8165
Ion Ratio	Lower	Upper	
61	100		
96	101.7	74.1	111.1
98	61.7	47.4	71.0

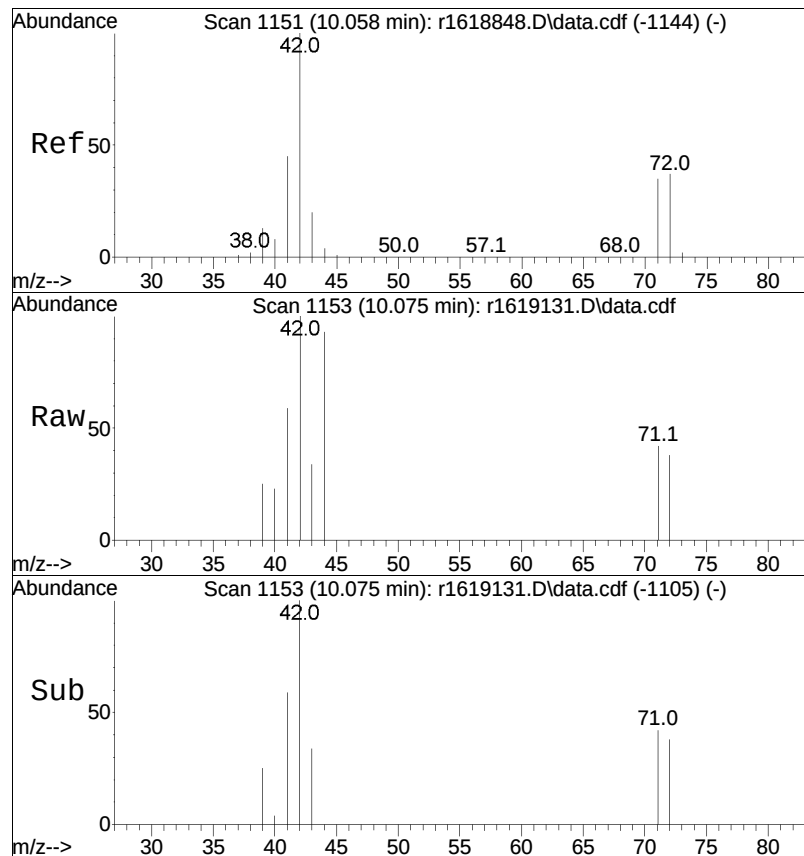




#39
 chloroform
 Concen: 5.47 ppbV
 RT: 9.575 min Scan# 1093
 Delta R.T. 0.017 min
 Lab File: r1619131.D
 Acq: 17 Sep 2020 12:09 AM

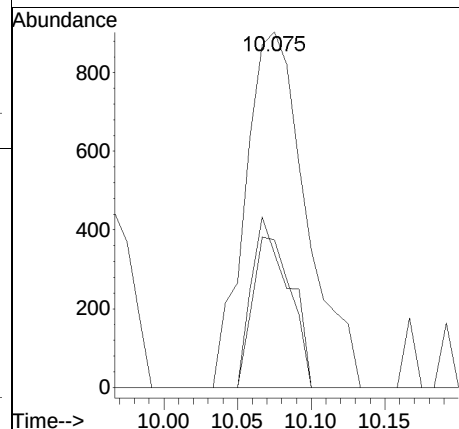
Tgt	Ion: 83	Resp:	124904
Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.5	77.3
47	24.1	20.1	30.1

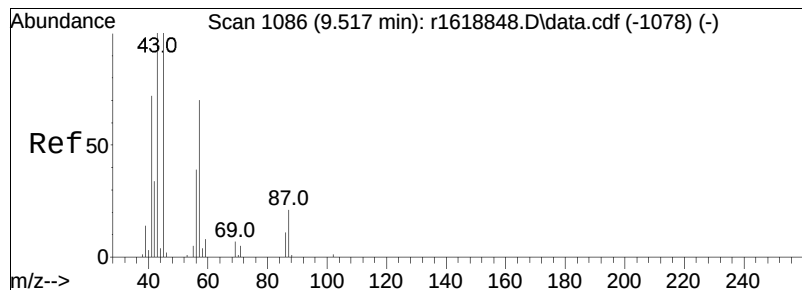




#40
 Tetrahydrofuran
 Concen: 0.11 ppbV
 RT: 10.075 min Scan# 1153
 Delta R.T. 0.067 min
 Lab File: r1619131.D
 Acq: 17 Sep 2020 12:09 AM

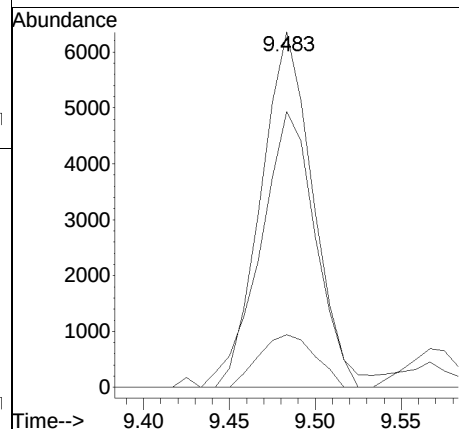
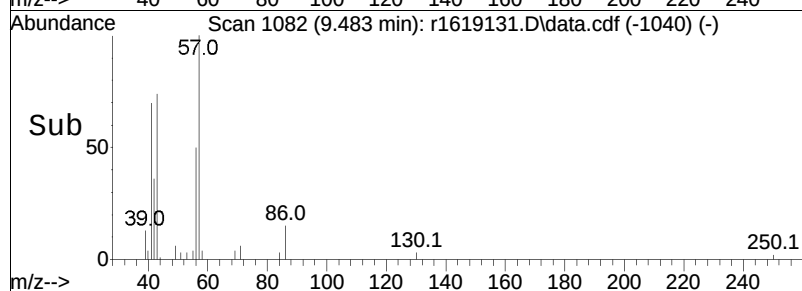
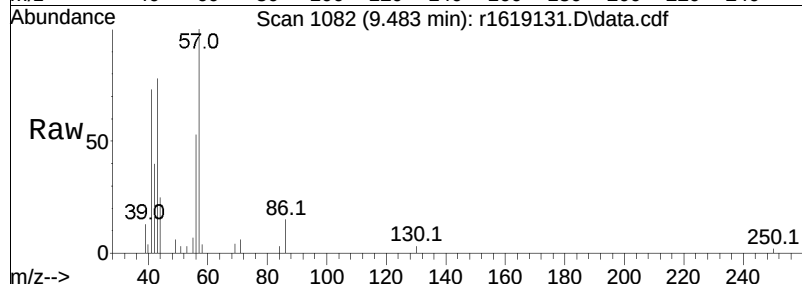
Tgt Ion	Ratio	Resp	Lower	Upper
42	100	2600		
71	41.5		28.2	42.2
72	37.7		29.9	44.9

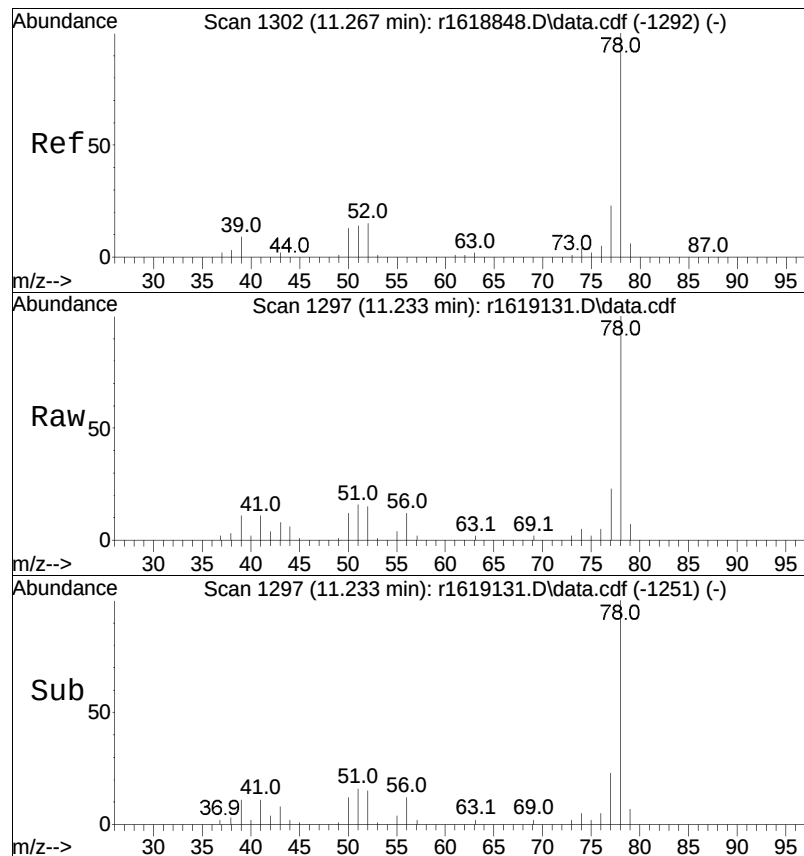




#44
hexane
Concen: 0.49 ppbV
RT: 9.483 min Scan# 1082
Delta R.T. 0.017 min
Lab File: r1619131.D
Acq: 17 Sep 2020 12:09 AM

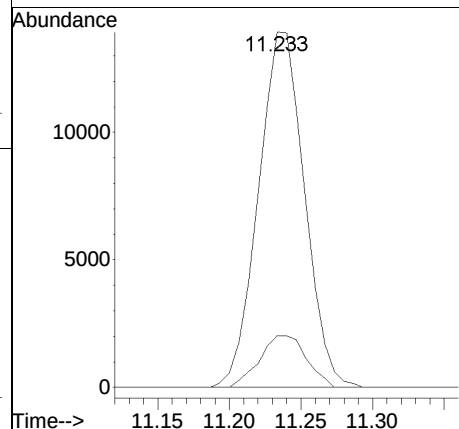
Tgt Ion	Ratio	Lower	Upper
57	100		
43	77.6	114.4	171.6#
86	14.8	12.6	18.8

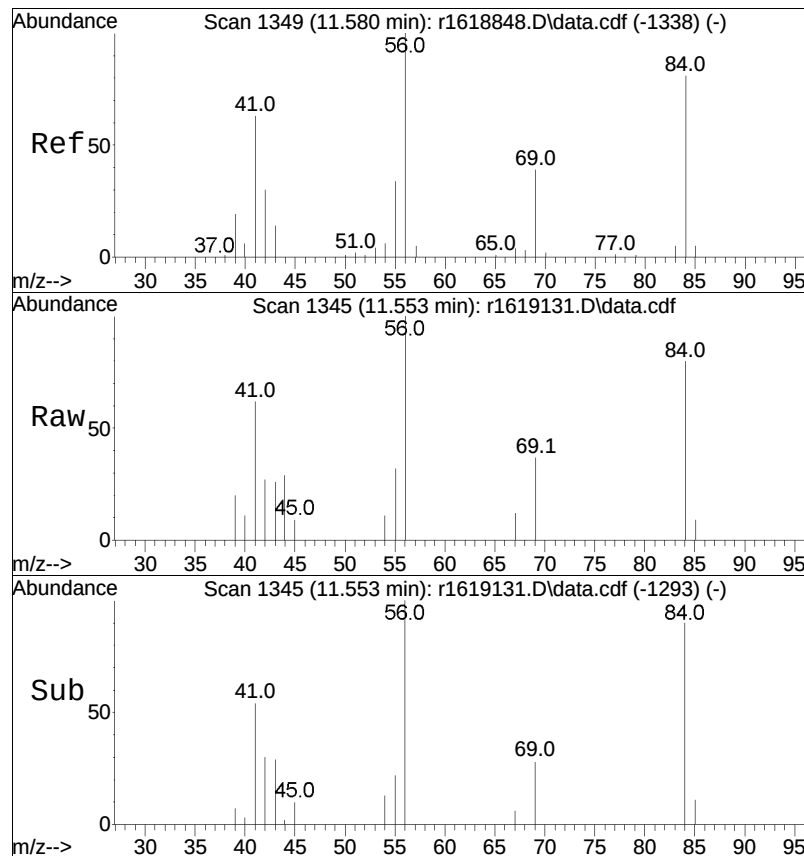




#50
benzene
Concen: 0.54 ppbV
RT: 11.233 min Scan# 1297
Delta R.T. 0.013 min
Lab File: r1619131.D
Acq: 17 Sep 2020 12:09 AM

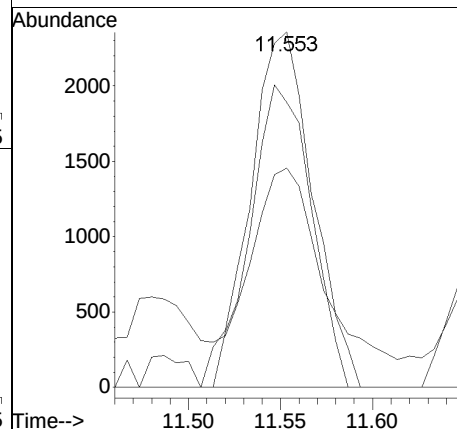
Tgt Ion	Ratio	Lower	Upper
78	100		
52	14.6	11.8	17.6

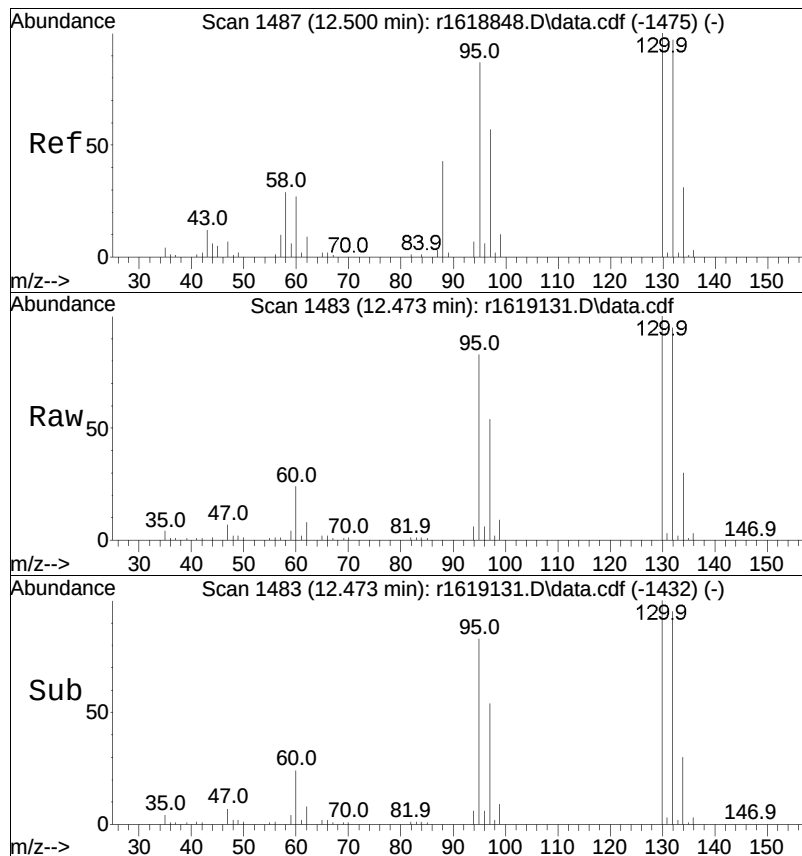




#53
cyclohexane
Concen: 0.20 ppbV
RT: 11.553 min Scan# 1345
Delta R.T. 0.020 min
Lab File: r1619131.D
Acq: 17 Sep 2020 12:09 AM

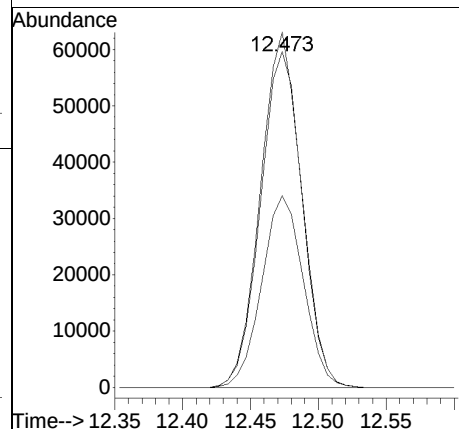
Tgt	Ion:	56	Resp:	5666
Ion	Ratio	Lower	Upper	
56	100			
84	80.2	64.6	96.8	
41	61.7	50.5	75.7	

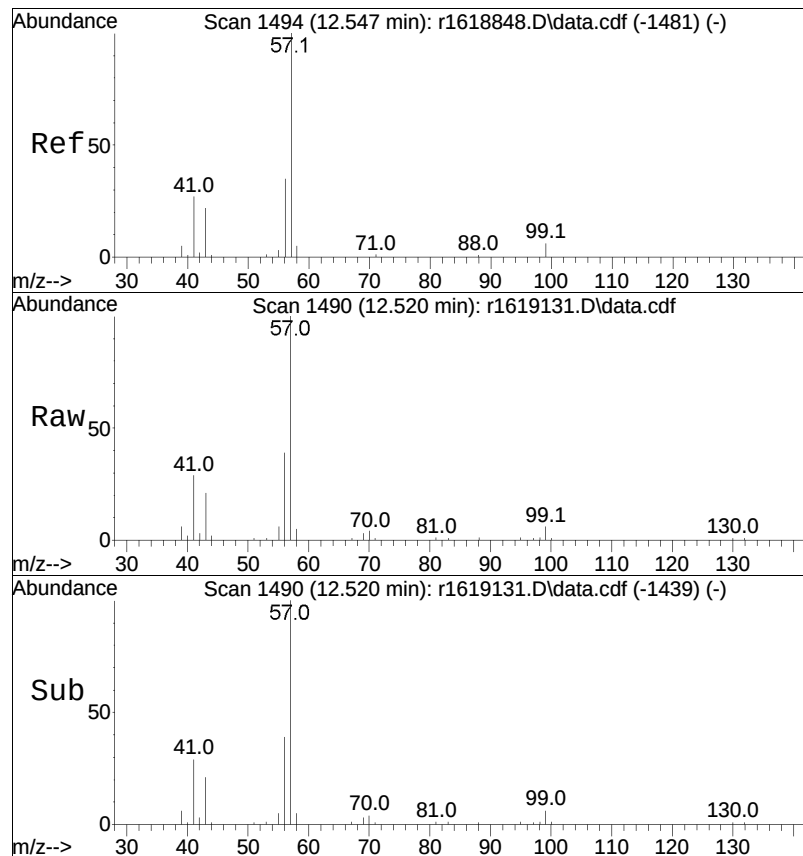




#59
trichloroethene
Concen: 5.31 ppbV
RT: 12.473 min Scan# 1483
Delta R.T. 0.013 min
Lab File: r1619131.D
Acq: 17 Sep 2020 12:09 AM

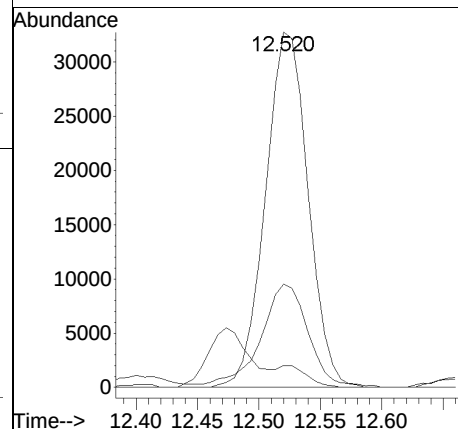
Tgt Ion:130	Resp:	132263
Ion Ratio	Lower	Upper
130	100	
132	94.5	77.4 116.2
97	53.9	45.5 68.3

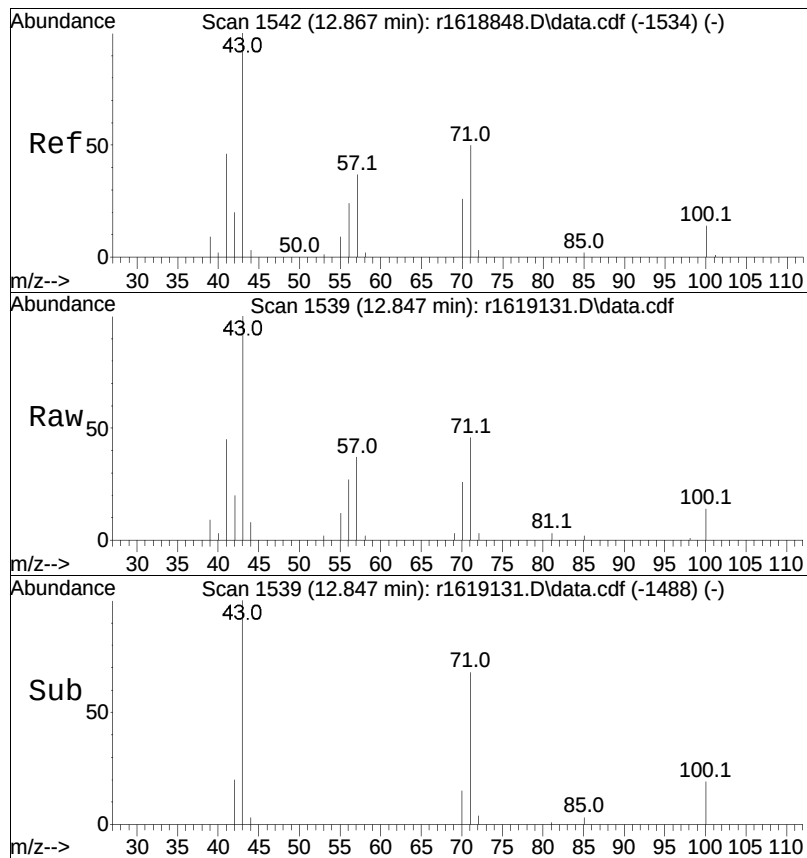




#60
 2,2,4-trimethylpentane
 Concen: 0.86 ppbV
 RT: 12.520 min Scan# 1490
 Delta R.T. 0.013 min
 Lab File: r1619131.D
 Acq: 17 Sep 2020 12:09 AM

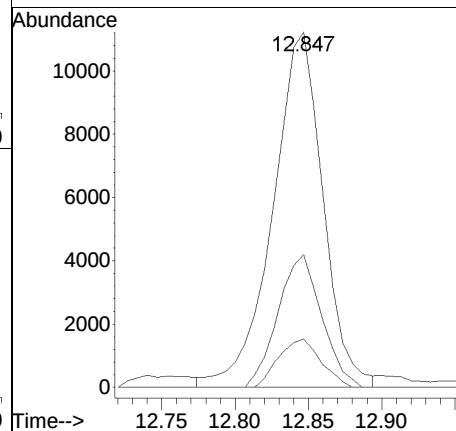
Tgt Ion:	57	99	41	Ratio	Lower	Upper
Resp:	78982					
Ion	100	6.2	29.0		4.9	32.9

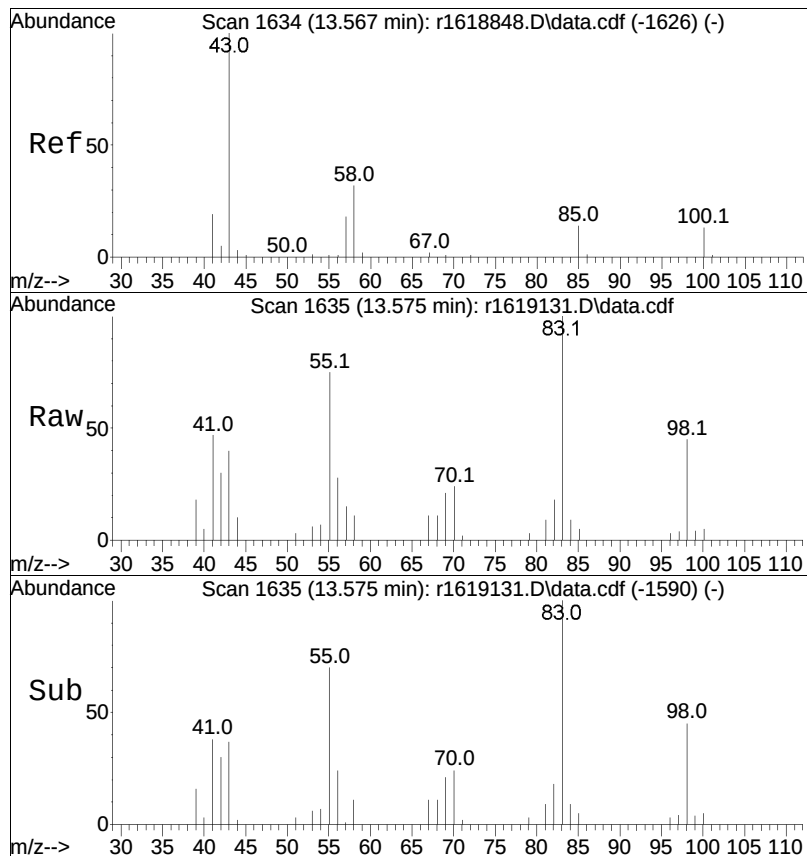




#62
heptane
Concen: 0.59 ppbV m
RT: 12.847 min Scan# 1539
Delta R.T. 0.013 min
Lab File: r1619131.D
Acq: 17 Sep 2020 12:09 AM

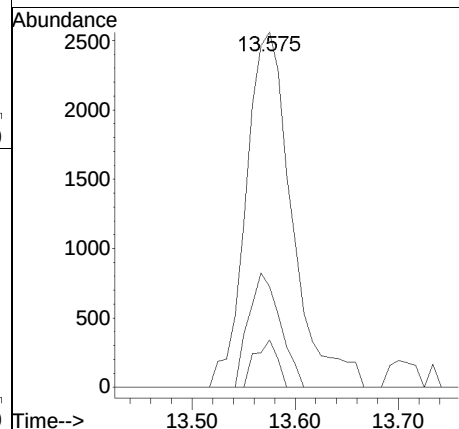
Tgt	Ion	Ratio	Lower	Upper
43	100			
57	37.4	29.9	44.9	
100	13.6	11.5	17.3	

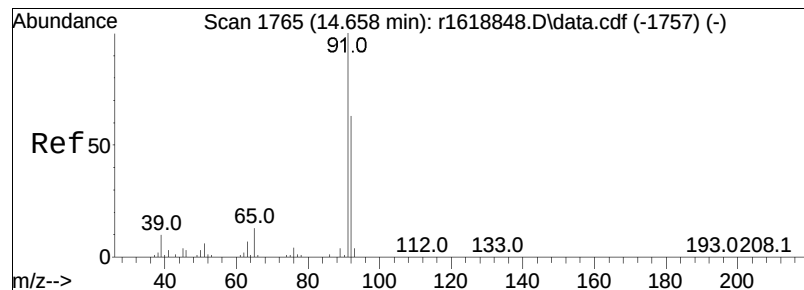




#64
 4-methyl-2-pentanone
 Concen: 0.15 ppbV
 RT: 13.575 min Scan# 1635
 Delta R.T. 0.042 min
 Lab File: r1619131.D
 Acq: 17 Sep 2020 12:09 AM

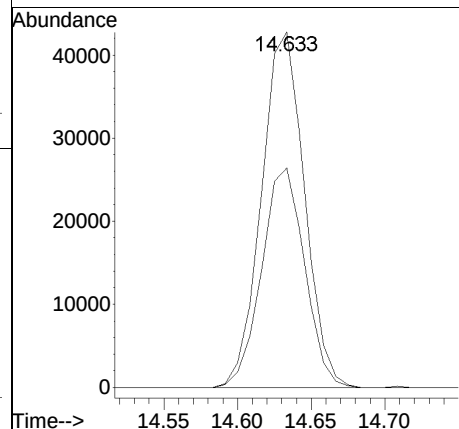
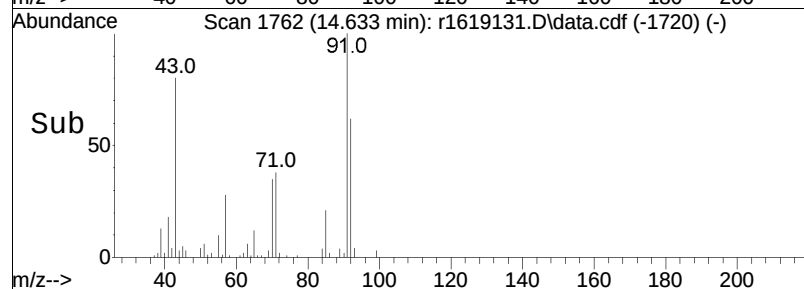
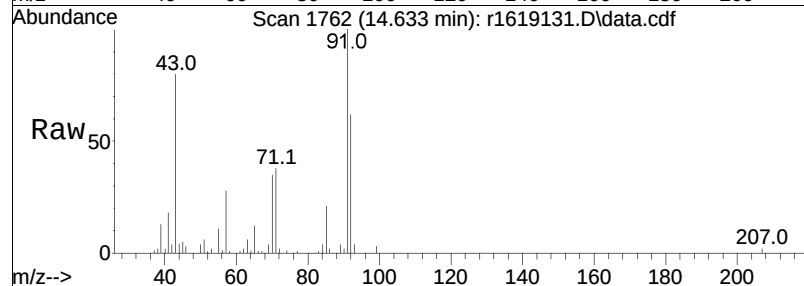
Tgt Ion:	43	58	100	Ratio	Lower	Upper
Resp:	7940					
Ion	100	28.3	13.4		25.3	15.2
Ratio						

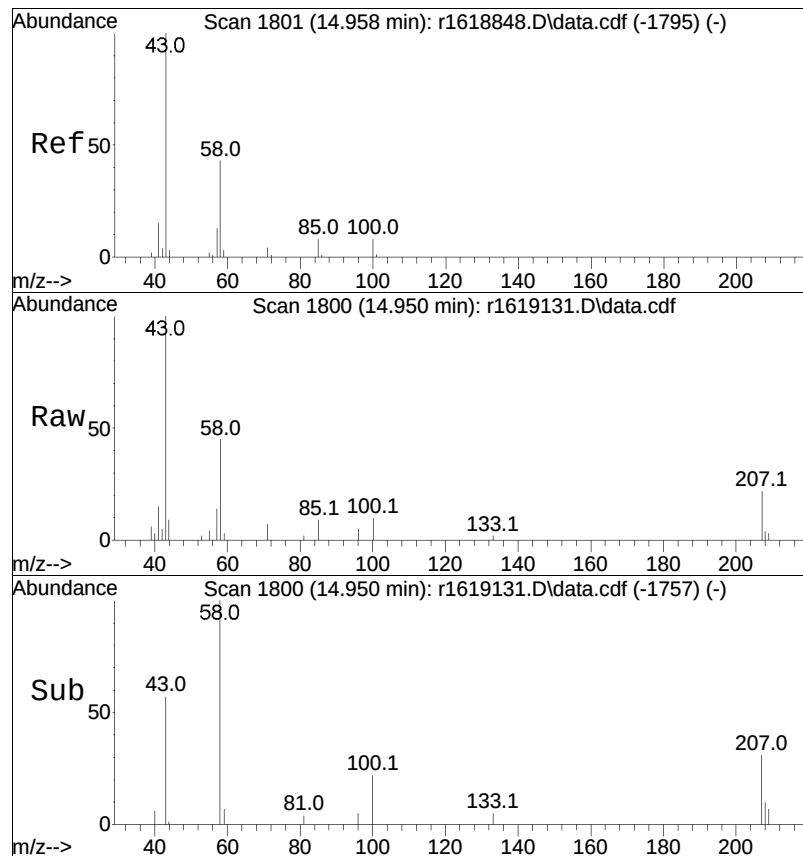




#68
toluene
Concen: 1.36 ppbV
RT: 14.633 min Scan# 1762
Delta R.T. 0.017 min
Lab File: r1619131.D
Acq: 17 Sep 2020 12:09 AM

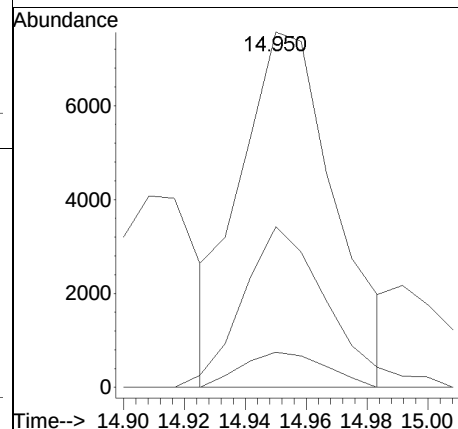
Tgt	Ion	Ratio	Lower	Upper
91	100			
92	61.7	50.6	75.8	

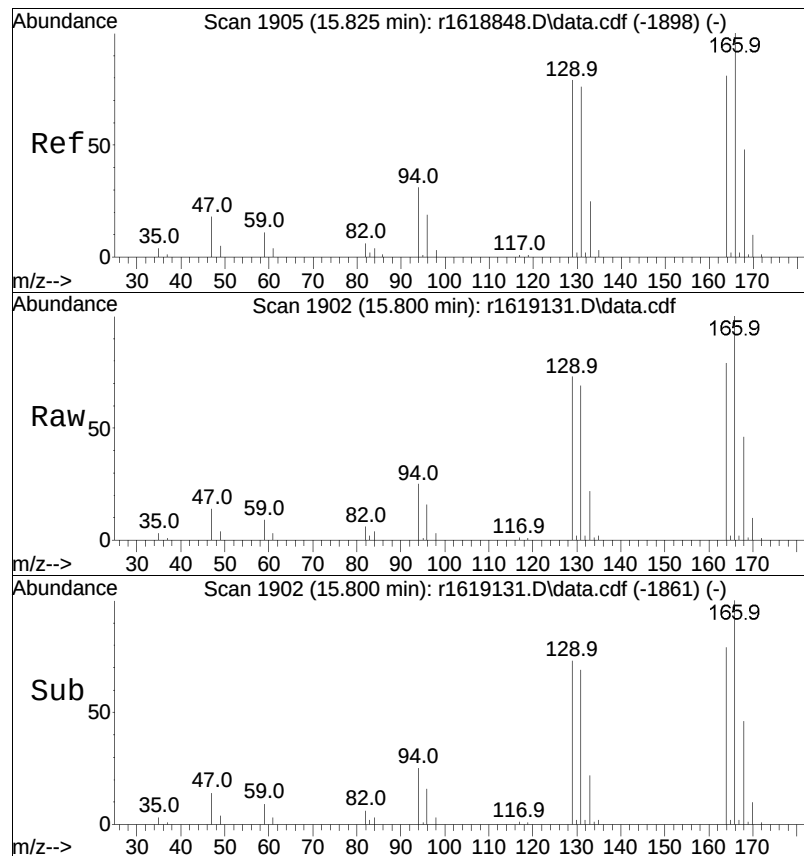




#72
 2-hexanone
 Concen: 0.36 ppbV m
 RT: 14.950 min Scan# 1800
 Delta R.T. 0.025 min
 Lab File: r1619131.D
 Acq: 17 Sep 2020 12:09 AM

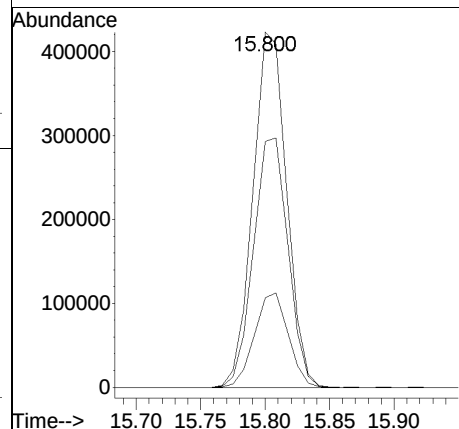
Tgt Ion:	43	58	100	Ratio	Lower	Upper
Resp:	16368					
Ratio	100	45.2	9.9			
Lower		35.8	8.0			
Upper		53.8	12.0			

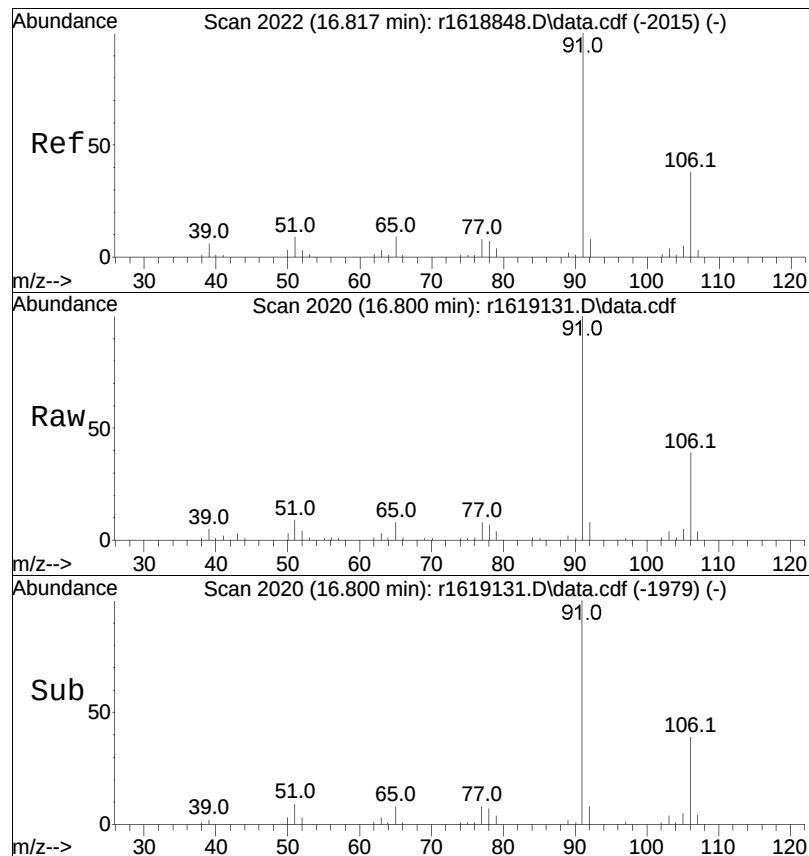




#78
 tetrachloroethene
 Concen: 27.91 ppbV
 RT: 15.800 min Scan# 1902
 Delta R.T. 0.008 min
 Lab File: r1619131.D
 Acq: 17 Sep 2020 12:09 AM

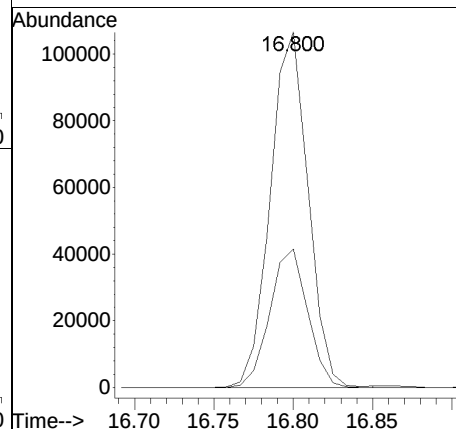
Tgt Ion	Ratio	Lower	Upper
166	100		
131	69.2	61.0	91.6
94	25.2	24.6	37.0

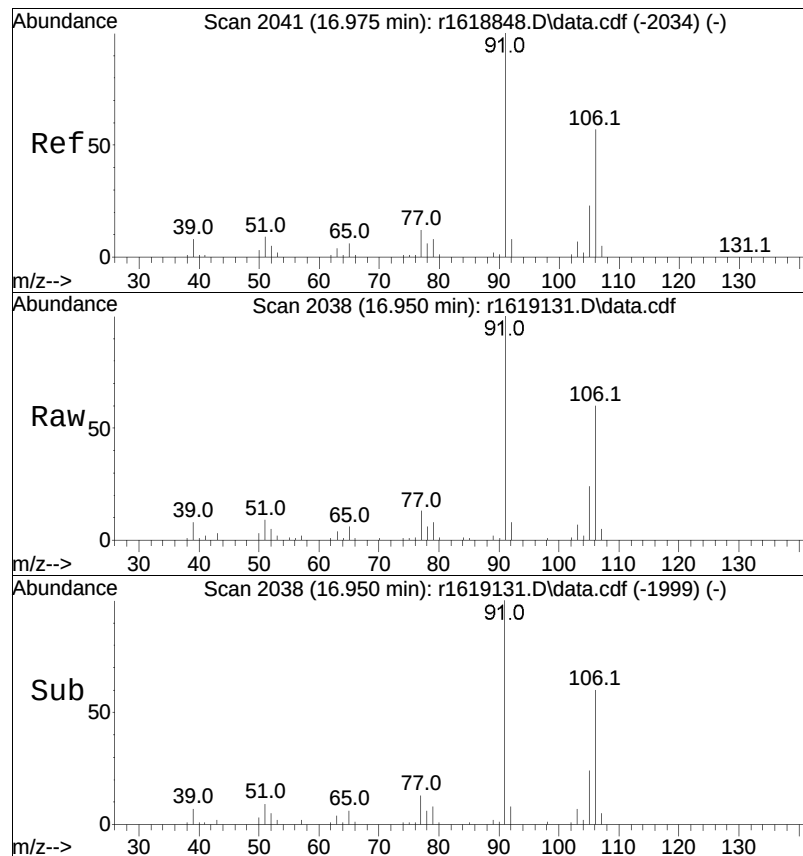




#81
ethylbenzene
Concen: 2.18 ppbV
RT: 16.800 min Scan# 2020
Delta R.T. 0.008 min
Lab File: r1619131.D
Acq: 17 Sep 2020 12:09 AM

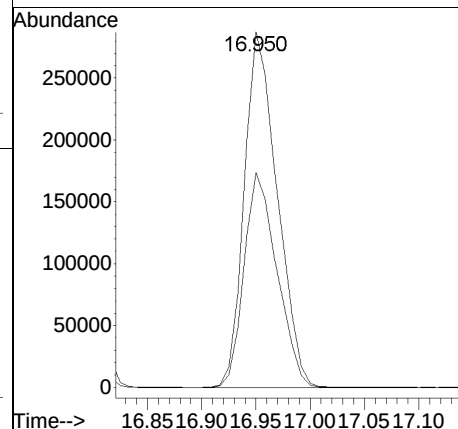
Tgt	Ion	Resp	Lower	Upper
91	100	176330		
106	39.0	30.3	45.5	

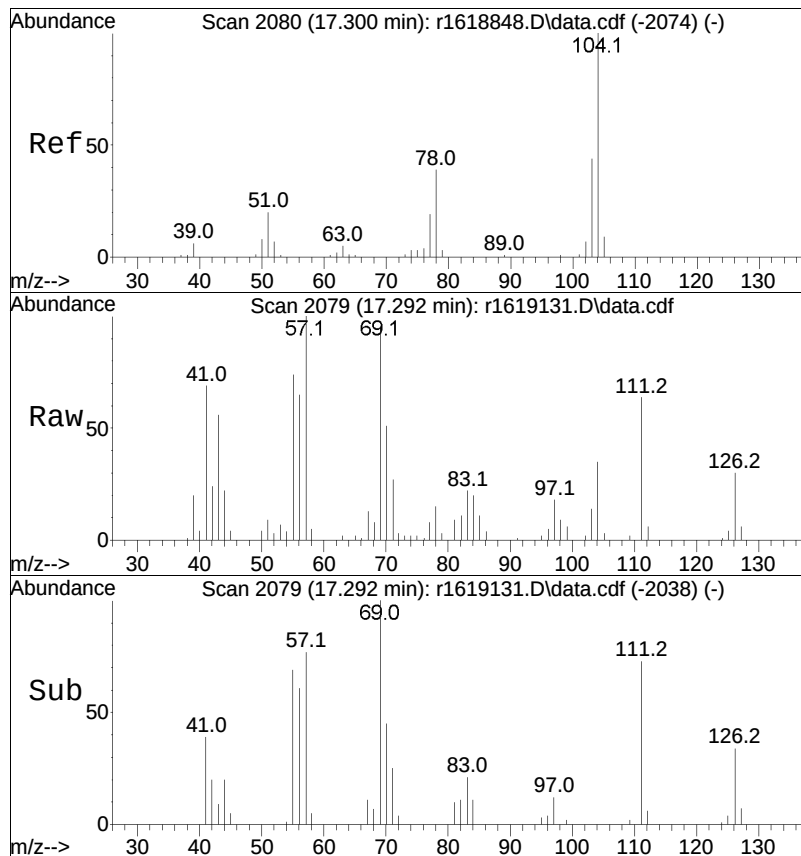




#83
 m+p-xylene
 Concen: 9.29 ppbV
 RT: 16.950 min Scan# 2038
 Delta R.T. -0.008 min
 Lab File: r1619131.D
 Acq: 17 Sep 2020 12:09 AM

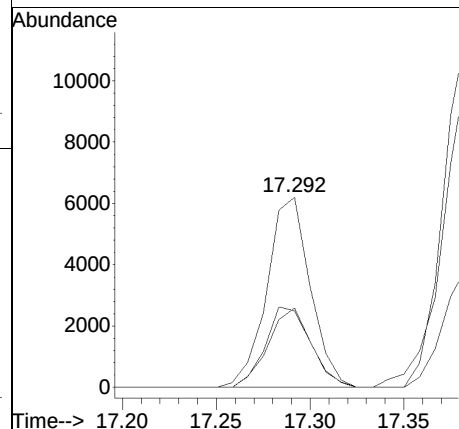
Tgt	Ion	Ratio	Lower	Upper
91	100			
106	60.4	45.2	67.8	

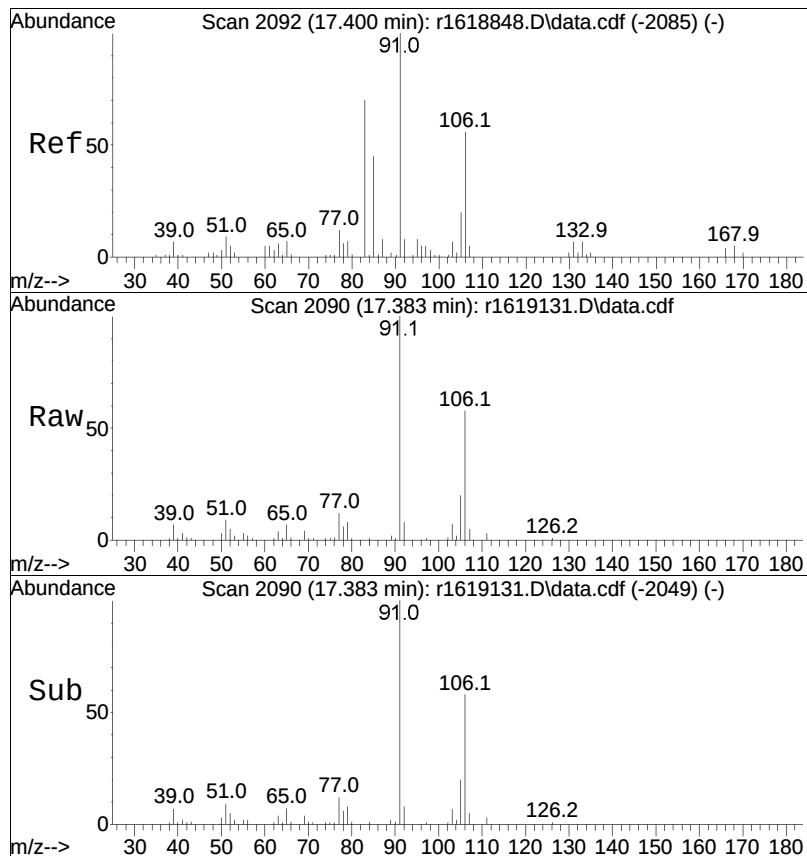




#85
styrene
Concen: 0.18 ppbV
RT: 17.292 min Scan# 2079
Delta R.T. 0.008 min
Lab File: r1619131.D
Acq: 17 Sep 2020 12:09 AM

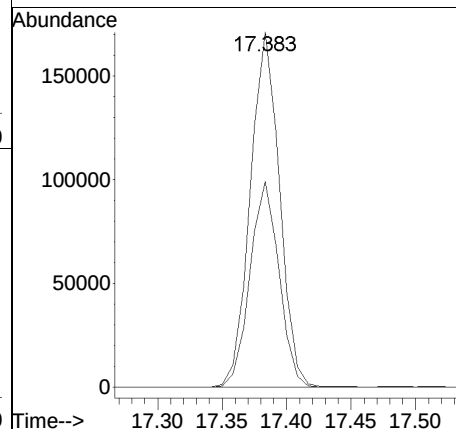
Tgt	Ion:104	Resp:	9991
Ion	Ratio	Lower	Upper
104	100		
103	40.3	35.3	52.9
78	41.7	31.5	47.3

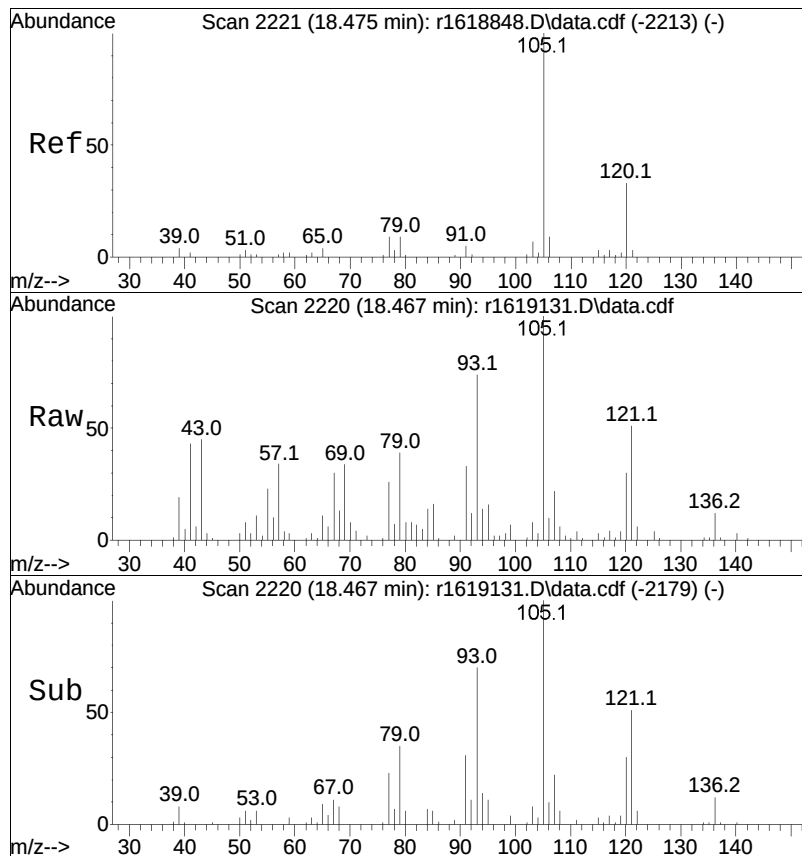




#87
 o-xylene
 Concen: 4.13 ppbV
 RT: 17.383 min Scan# 2090
 Delta R.T. 0.008 min
 Lab File: r1619131.D
 Acq: 17 Sep 2020 12:09 AM

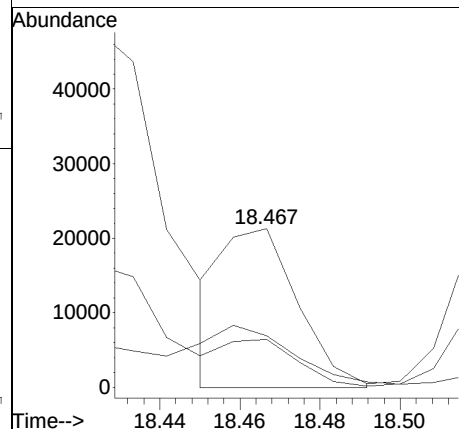
Tgt	Ion	Resp	Lower	Upper
91	100	270955		
106	58.0	44.6	66.8	

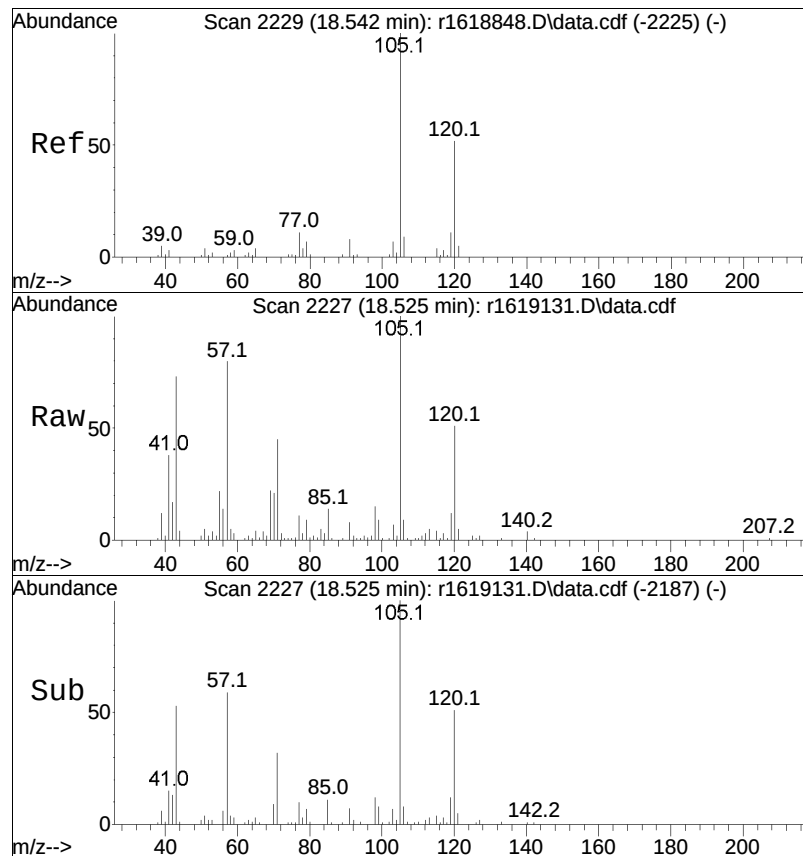




#96
 4-ethyl toluene
 Concen: 0.28 ppbV m
 RT: 18.467 min Scan# 2220
 Delta R.T. 0.008 min
 Lab File: r1619131.D
 Acq: 17 Sep 2020 12:09 AM

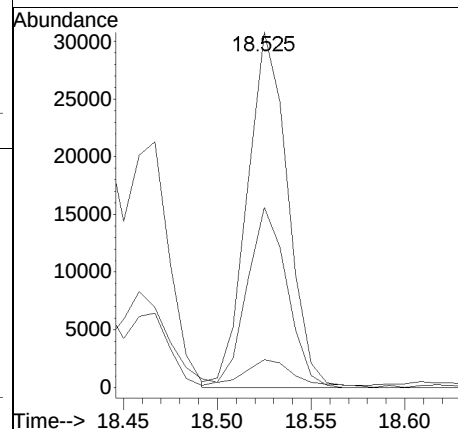
Tgt Ion:	105	Resp:	27692
Ion Ratio	Lower	Upper	
105	100		
120	30.3	26.4	39.6
91	32.5	7.2	10.8#

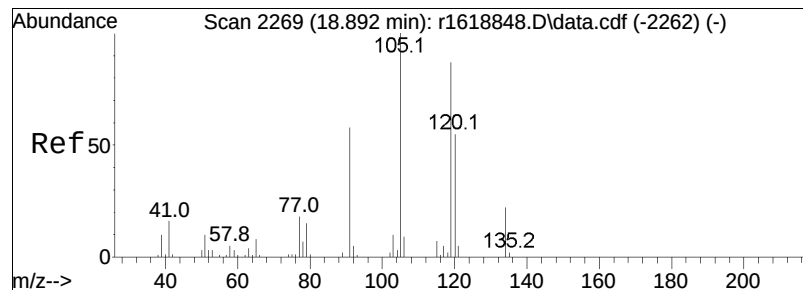




#97
 1,3,5-trimethylbenzene
 Concen: 0.56 ppbV
 RT: 18.525 min Scan# 2227
 Delta R.T. 0.000 min
 Lab File: r1619131.D
 Acq: 17 Sep 2020 12:09 AM

Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.6	41.2	61.8
91	7.8	6.7	10.1





#99

1,2,4-trimethylbenzene

Concen: 2.18 ppbV

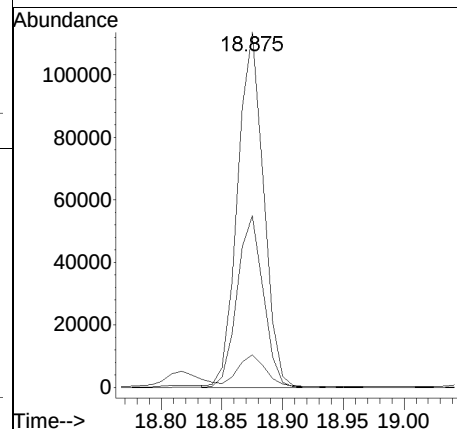
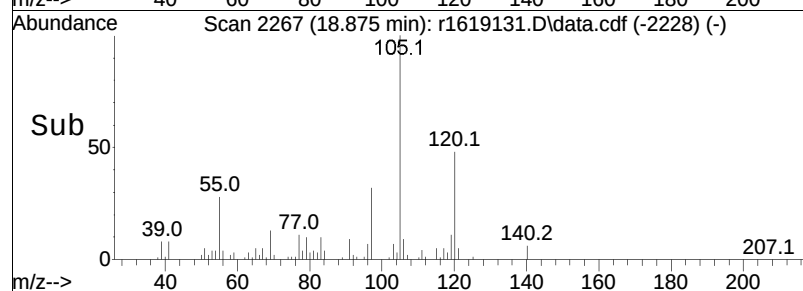
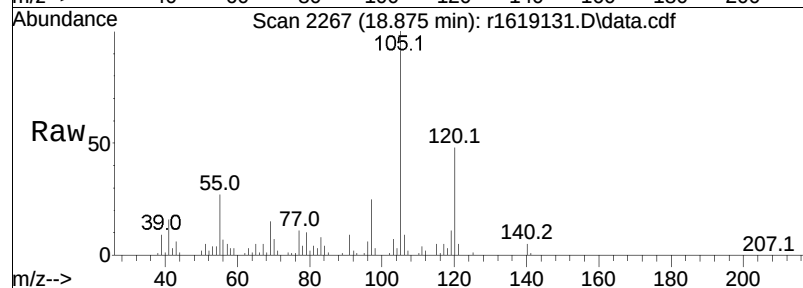
RT: 18.875 min Scan# 2267

Delta R.T. 0.008 min

Lab File: r1619131.D

Acq: 17 Sep 2020 12:09 AM

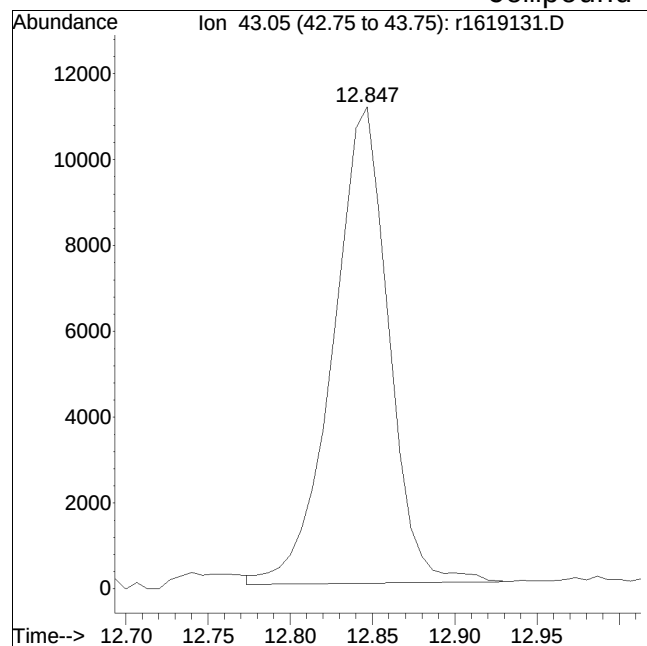
Tgt	Ion:105	Resp:	170204
Ion	Ratio	Lower	Upper
105	100		
120	48.3	44.0	66.0
91	9.2	46.2	69.4#



Manual Integration Report

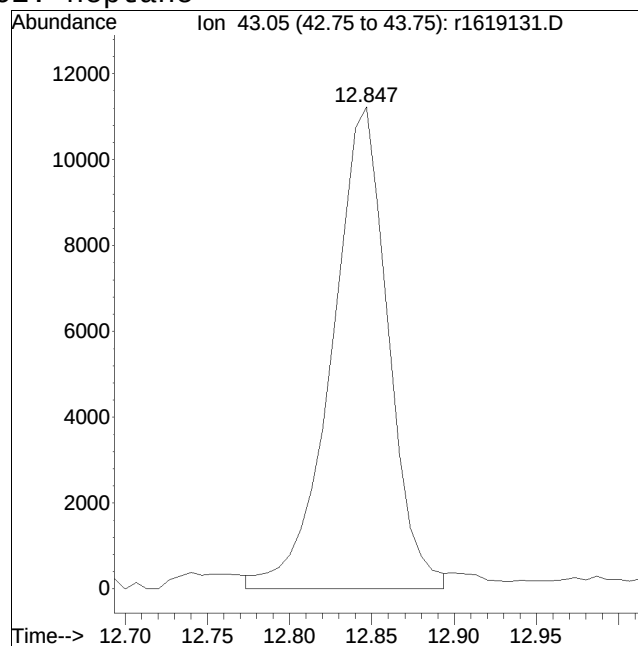
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619131.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:2: 9 Instrument :
Sample : L2037647-06,3,250,250 Quant Date : 9/17/2020 5:42 am

Compound #62: heptane



Original Peak Response = 26064

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

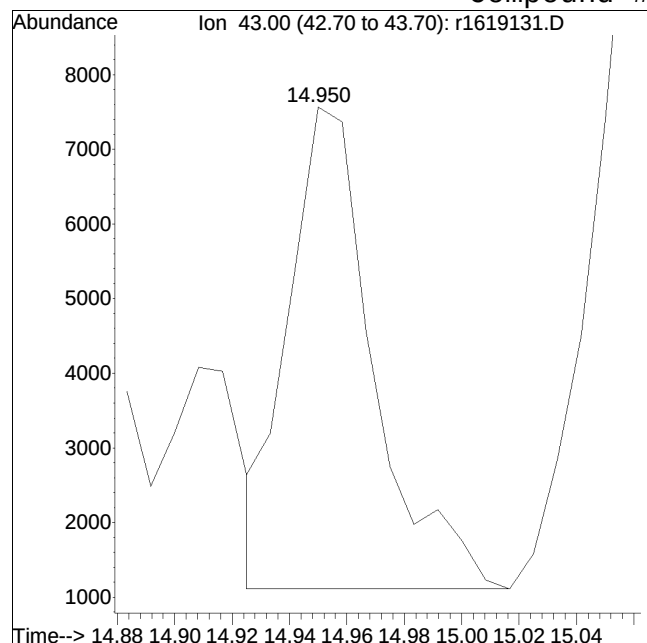


Manual Peak Response = 26746 M6

Manual Integration Report

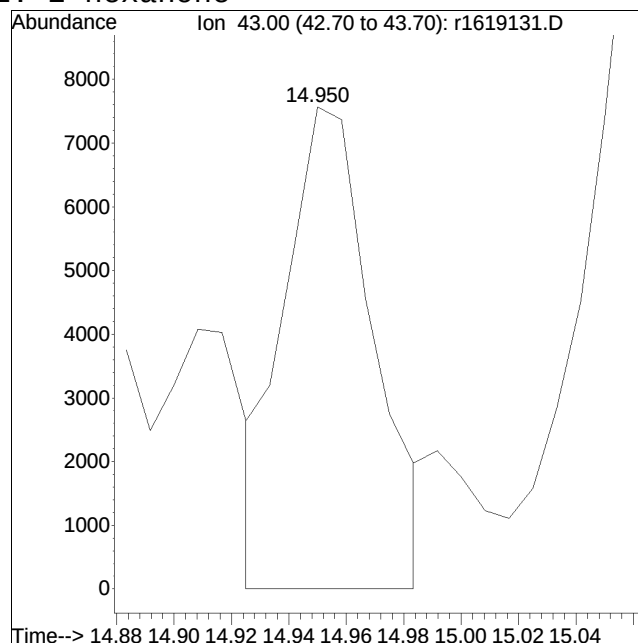
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619131.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:2: 9 Instrument :
Sample : L2037647-06,3,250,250 Quant Date : 9/17/2020 5:42 am

Compound #72: 2-hexanone



Original Peak Response = 13403

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

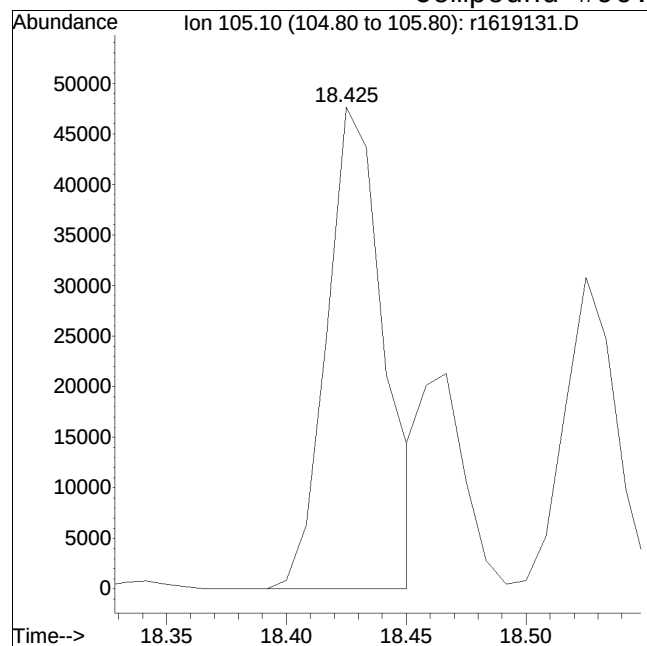


Manual Peak Response = 16368 M6

Manual Integration Report

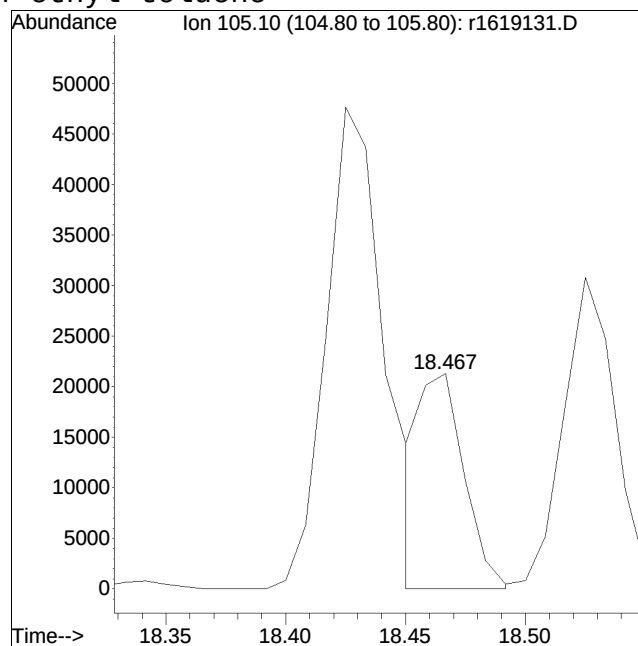
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619131.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:2: 9 Instrument :
Sample : L2037647-06,3,250,250 Quant Date : 9/17/2020 5:42 am

Compound #96: 4-ethyl toluene



Original Peak Response = 79437

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 27692 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619132.D
 Acq On : 17 Sep 2020 12:47 AM
 Operator : AIRLAB16:TS
 Sample : L2037647-07D, 3, 75, 250
 Misc : WG1410723, ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:13:13 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.408	49	228896	10.000	ppbV	0.02
Standard Area = 289019			Recovery =	79.20%		
43) 1,4-difluorobenzene	11.680	114	777668	10.000	ppbV	0.01
Standard Area = 862875			Recovery =	90.13%		
67) chlorobenzene-D5	16.408	54	102306	10.000	ppbV	0.00
Standard Area = 122360			Recovery =	83.61%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.880	85	23674	1.091	ppbV	96
6) chloromethane	0.000		0	N.D.	d	
7) Freon-114	0.000		0	N.D.	d	
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.468	54	3609	0.333	ppbV	91
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.182	31	107354	13.077	ppbV	99
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.723	43	2469743M6	124.361	ppbV	
21) trichlorofluoromethane	5.933	101	9865	0.561	ppbV	98
22) isopropyl alcohol	6.093	45	38189	1.520	ppbV	98
26) 1,1-dichloroethene	0.000		0	N.D.	d	
27) tertiary butyl alcohol	0.000		0	N.D.	d	
28) methylene chloride	6.862		0	N.D.		
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	7.150	76	1541086	36.797	ppbV	98
31) Freon 113	7.192		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	8.275		0	N.D.		
34) MTBE	8.342		0	N.D.		
36) 2-butanone	8.708	43	785971	25.107	ppbV	97
37) cis-1,2-dichloroethene	9.217		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.	d	
39) chloroform	9.583	83	11648M6	0.526	ppbV	
40) Tetrahydrofuran	10.050	42	5542M6	0.250	ppbV	
42) 1,2-dichloroethane	10.417		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619132.D
 Acq On : 17 Sep 2020 12:47 AM
 Operator : AIRLAB16:TS
 Sample : L2037647-07D, 3, 75, 250
 Misc : WG1410723, ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:13:13 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
44) hexane	9.483	57	1275539	48.147	ppbV	#	49
48) 1,1,1-trichloroethane	10.700		0	N.D.			
50) benzene	11.240	78	338975	5.919	ppbV		99
52) carbon tetrachloride	0.000		0	N.D.			
53) cyclohexane	11.553	56	13526M6	0.472	ppbV		
56) 1,2-dichloropropane	12.073		0	N.D.			
57) bromodichloromethane	0.000		0	N.D.	d		
58) 1,4-dioxane	12.513		0	N.D.			
59) trichloroethene	12.473	130	3912	0.159	ppbV		98
60) 2,2,4-trimethylpentane	0.000		0	N.D.	d		
62) heptane	12.847	43	878304	19.448	ppbV		97
63) cis-1,3-dichloropropene	0.000		0	N.D.			
64) 4-methyl-2-pentanone	13.550	43	54786	1.059	ppbV		98
65) trans-1,3-dichloropropene	0.000		0	N.D.			
66) 1,1,2-trichloroethane	0.000		0	N.D.	d		
68) toluene	14.633	91	295356	4.659	ppbV		99
72) 2-hexanone	0.000		0	N.D.	d		
74) dibromochloromethane	0.000		0	N.D.			
75) 1,2-dibromoethane	0.000		0	N.D.			
78) tetrachloroethene	15.808	166	115069	4.203	ppbV		97
80) chlorobenzene	0.000		0	N.D.	d		
81) ethylbenzene	16.800	91	77468	0.965	ppbV		96
83) m+p-xylene	16.958	91	217209	3.354	ppbV		96
84) bromoform	0.000		0	N.D.			
85) styrene	17.292	104	5712	0.105	ppbV		94
86) 1,1,2,2-tetrachloroethane	17.375		0	N.D.			
87) o-xylene	17.383	91	92920	1.427	ppbV		99
96) 4-ethyl toluene	18.467	105	13009M6	0.134	ppbV		
97) 1,3,5-trimethylbenzene	18.533	105	17627	0.214	ppbV		98
99) 1,2,4-trimethylbenzene	18.875	105	62856	0.811	ppbV	#	61
101) Benzyl Chloride	19.075		0	N.D.			
102) 1,3-dichlorobenzene	19.067		0	N.D.			
103) 1,4-dichlorobenzene	19.067		0	N.D.			
107) 1,2-dichlorobenzene	19.358		0	N.D.			
115) 1,2,4-trichlorobenzene	0.000		0	N.D.			
119) hexachlorobutadiene	0.000		0	N.D.			

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619132.D
 Acq On : 17 Sep 2020 12:47 AM
 Operator : AIRLAB16:TS
 Sample : L2037647-07D,3,75,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:13:13 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

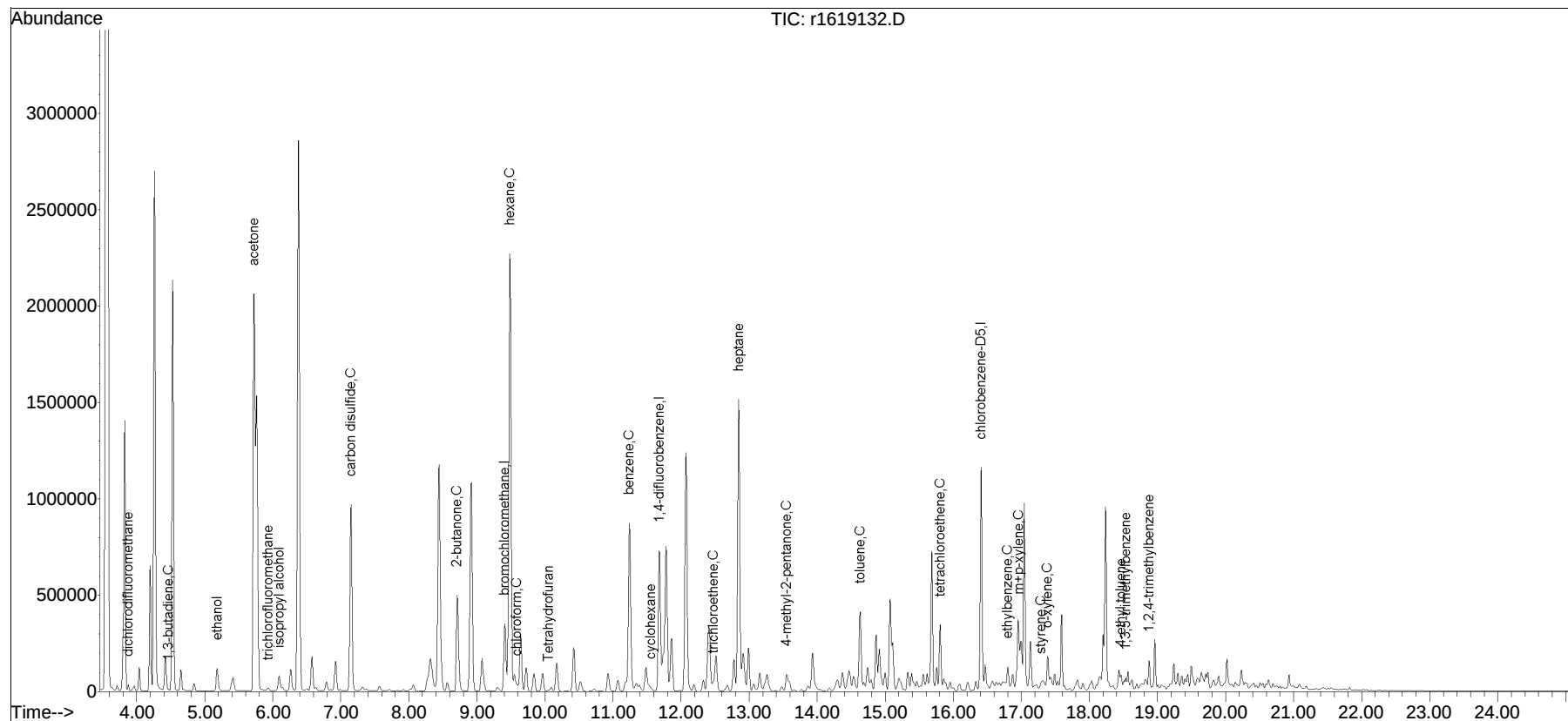
CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

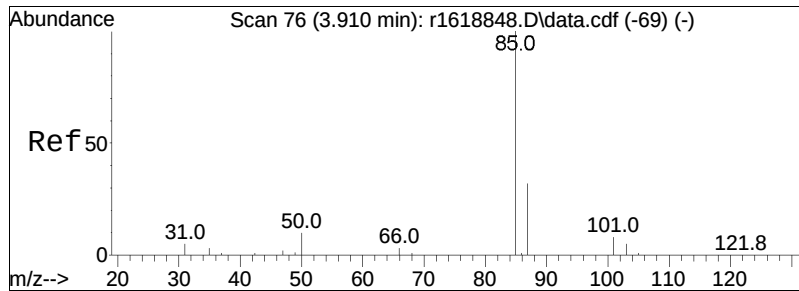
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : T015-NY - .s\Data\Airlab16\2020\09\200916T\r1619115.D

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
Data File : r1619132.D
Acq On : 17 Sep 2020 12:47 AM
Operator : AIRLAB16:TS
Sample : L2037647-07D,3,75,250
Misc : WG1410723,ICAL17102
ALS Vial : 0 Sample Multiplier: 1

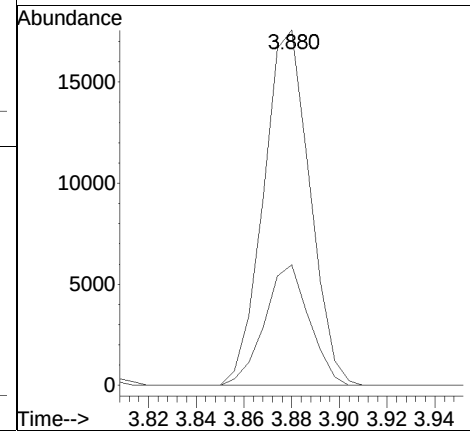
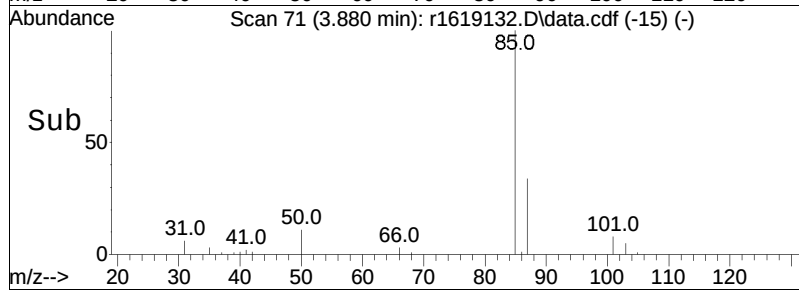
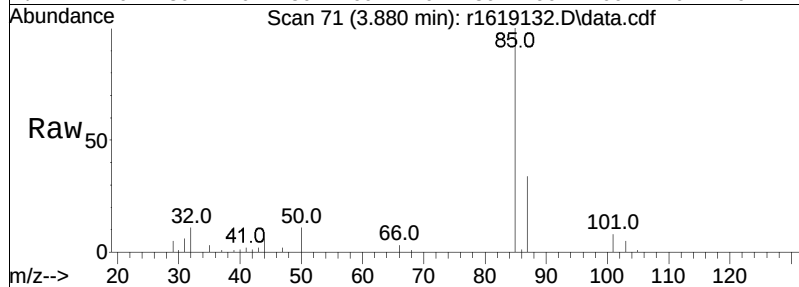
Quant Time: Sep 17 08:13:13 2020
Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Sep 16 13:18:40 2020
Response via : Initial Calibration

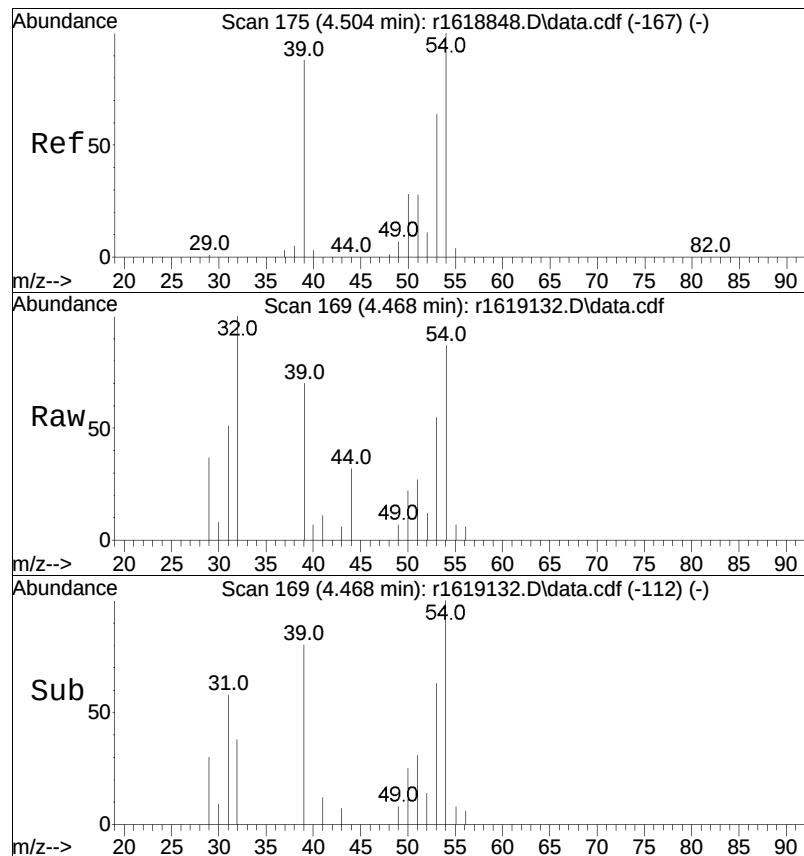




#5
dichlorodifluoromethane
Concen: 1.09 ppbV
RT: 3.880 min Scan# 71
Delta R.T. 0.006 min
Lab File: r1619132.D
Acq: 17 Sep 2020 12:47 AM

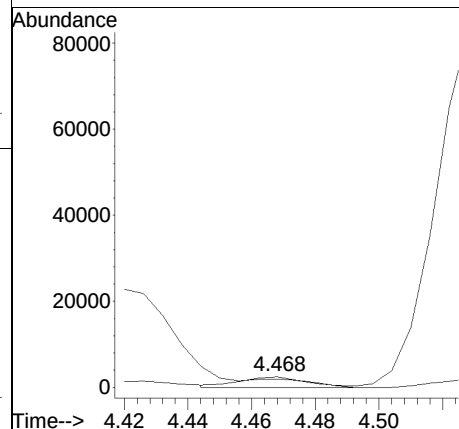
Tgt Ion: 85 Resp: 23674
Ion Ratio Lower Upper
85 100
87 33.9 25.4 38.2

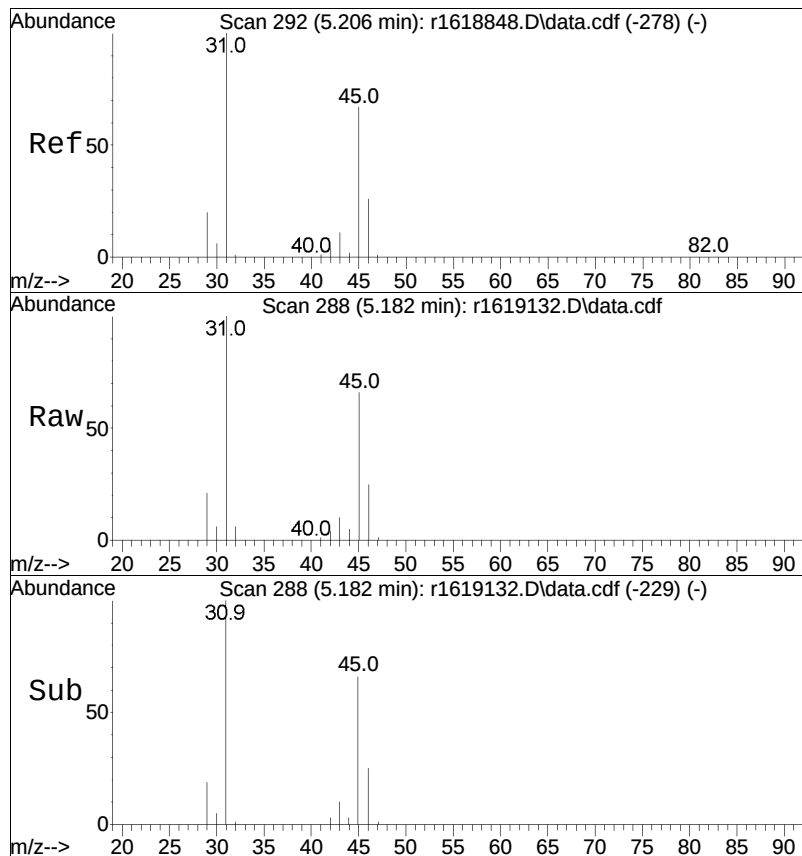




#10
 1,3-butadiene
 Concen: 0.33 ppbV
 RT: 4.468 min Scan# 169
 Delta R.T. 0.012 min
 Lab File: r1619132.D
 Acq: 17 Sep 2020 12:47 AM

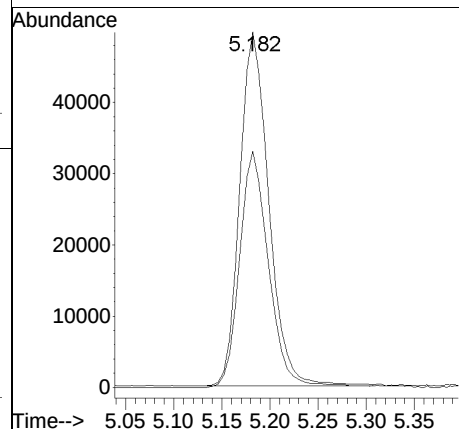
Tgt Ion	Ratio	Lower	Upper
54	100		
39	79.8	70.9	106.3

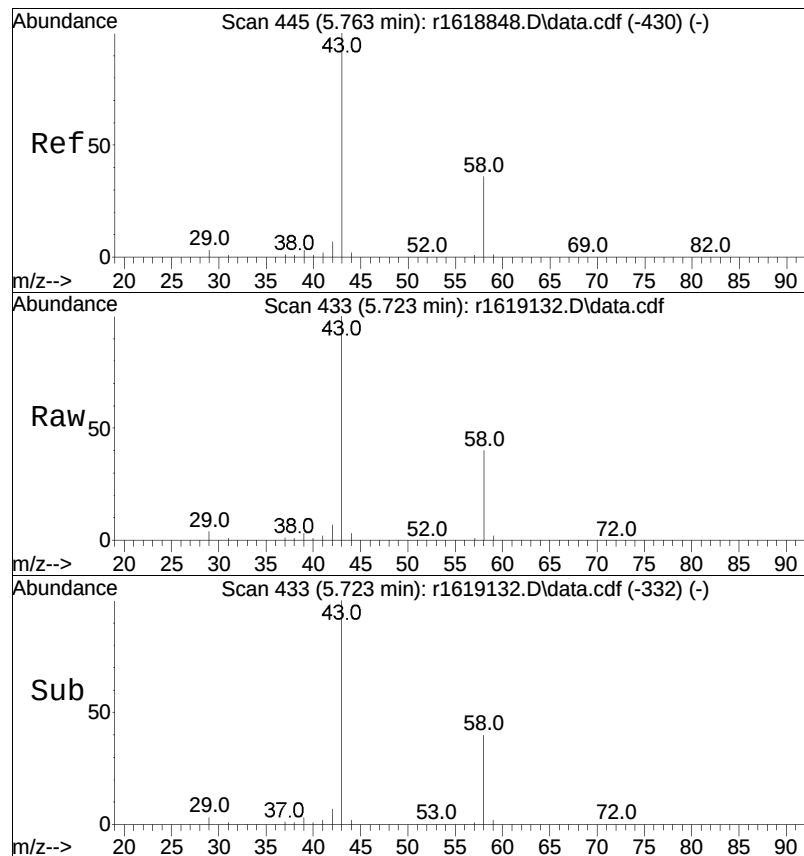




#15
ethanol
Concen: 13.08 ppbV
RT: 5.182 min Scan# 288
Delta R.T. 0.024 min
Lab File: r1619132.D
Acq: 17 Sep 2020 12:47 AM

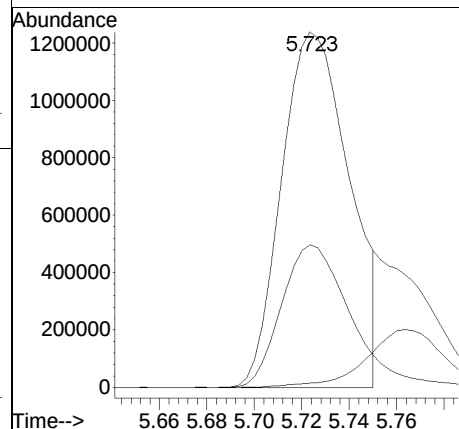
Tgt	Ion	Ratio	Lower	Upper
31	100			
45	66.5	54.0	81.0	

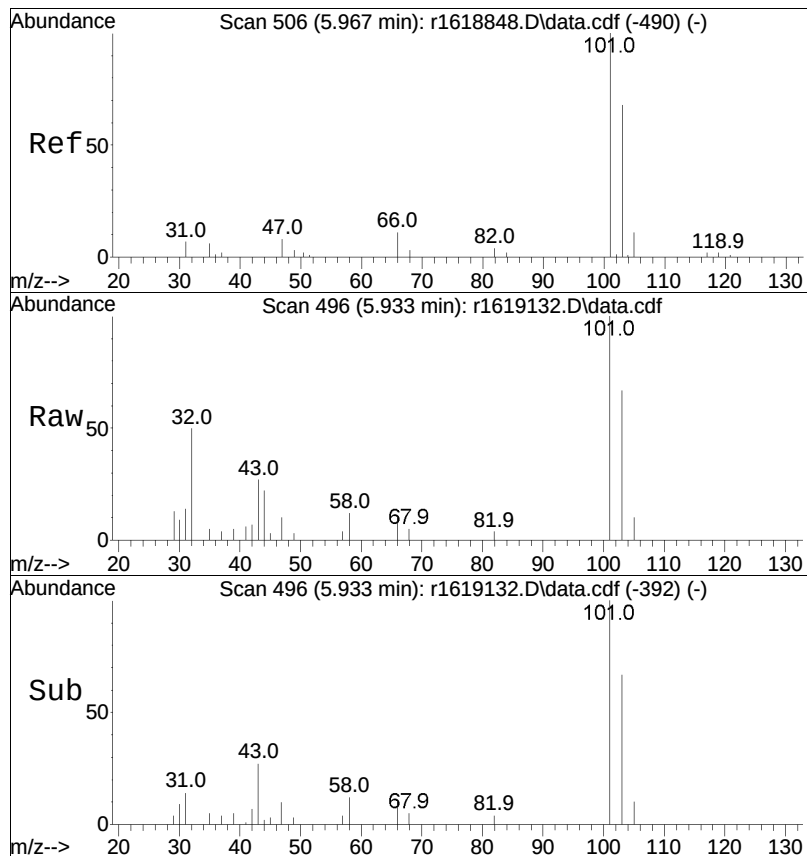




#19
 acetone
 Concen: 124.36 ppbV m
 RT: 5.723 min Scan# 433
 Delta R.T. 0.007 min
 Lab File: r1619132.D
 Acq: 17 Sep 2020 12:47 AM

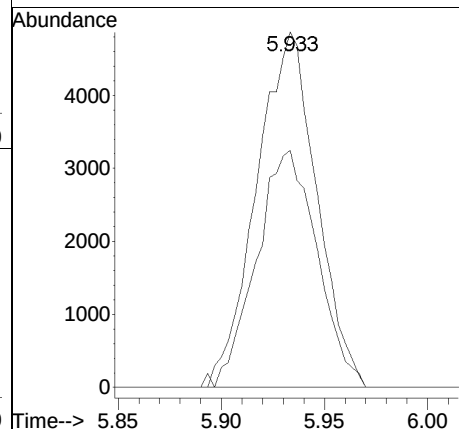
Tgt Ion:	43	Resp:	2469743
Ion Ratio	Lower	Upper	
43	100		
58	40.1	28.9	43.3
57	1.2	0.7	1.1#

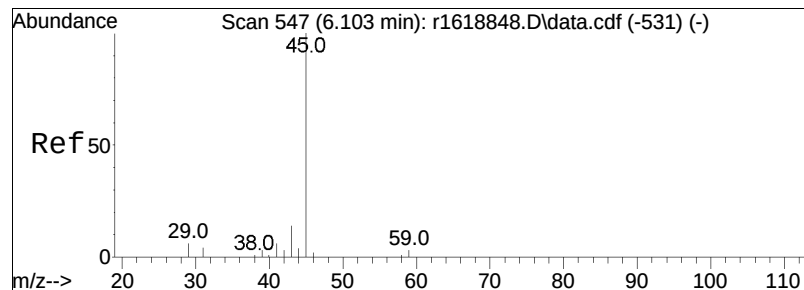




#21
 trichlorofluoromethane
 Concen: 0.56 ppbV
 RT: 5.933 min Scan# 496
 Delta R.T. 0.017 min
 Lab File: r1619132.D
 Acq: 17 Sep 2020 12:47 AM

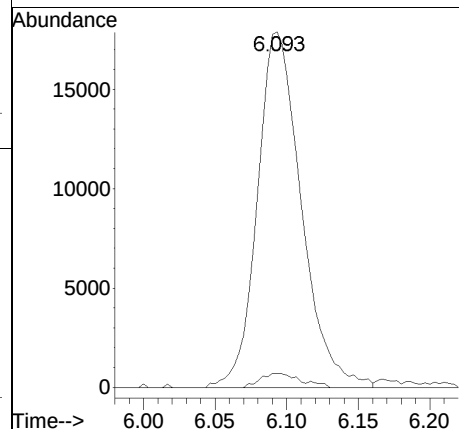
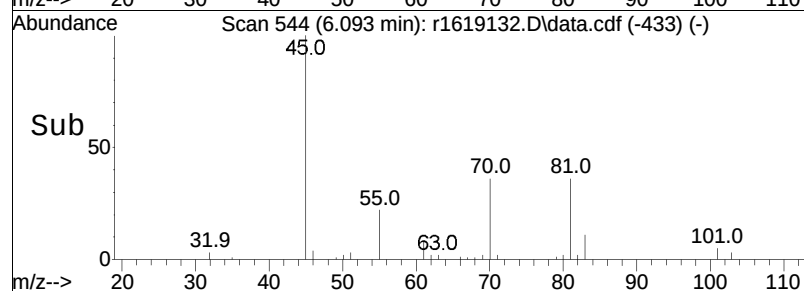
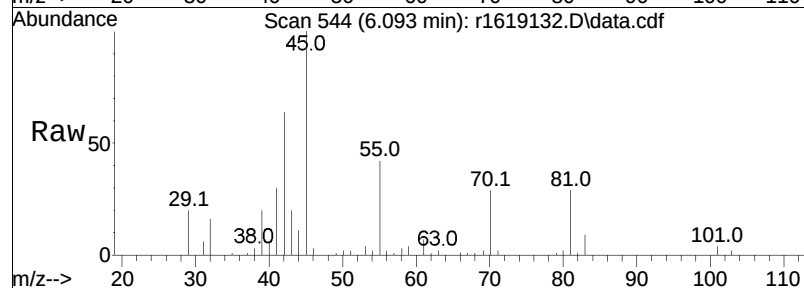
Tgt Ion	101	103	Ratio	Lower	Upper
Resp:	9865				
101	100				
103	66.7		54.6	82.0	

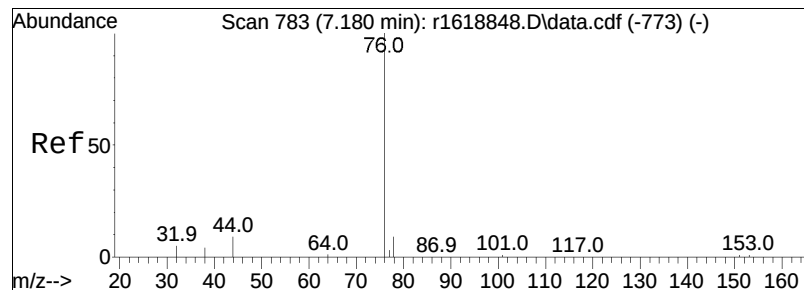




#22
isopropyl alcohol
Concen: 1.52 ppbV
RT: 6.093 min Scan# 544
Delta R.T. 0.040 min
Lab File: r1619132.D
Acq: 17 Sep 2020 12:47 AM

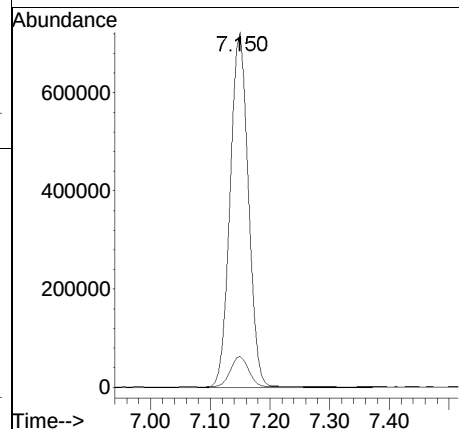
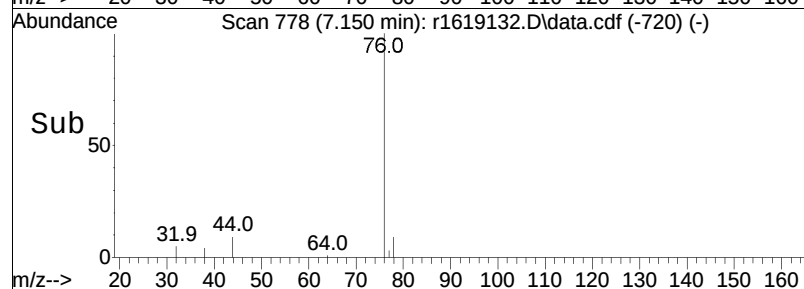
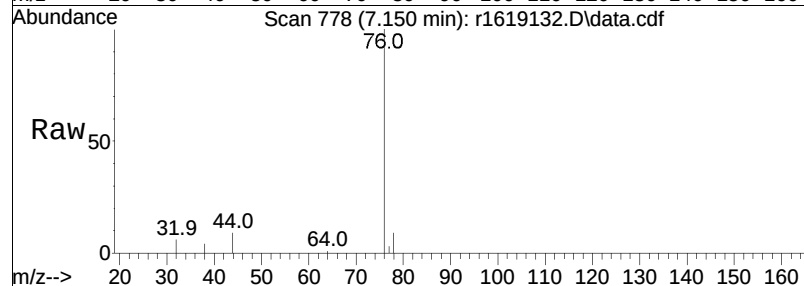
Tgt Ion	Ratio	Lower	Upper
45	100		
59	3.9	2.7	4.1

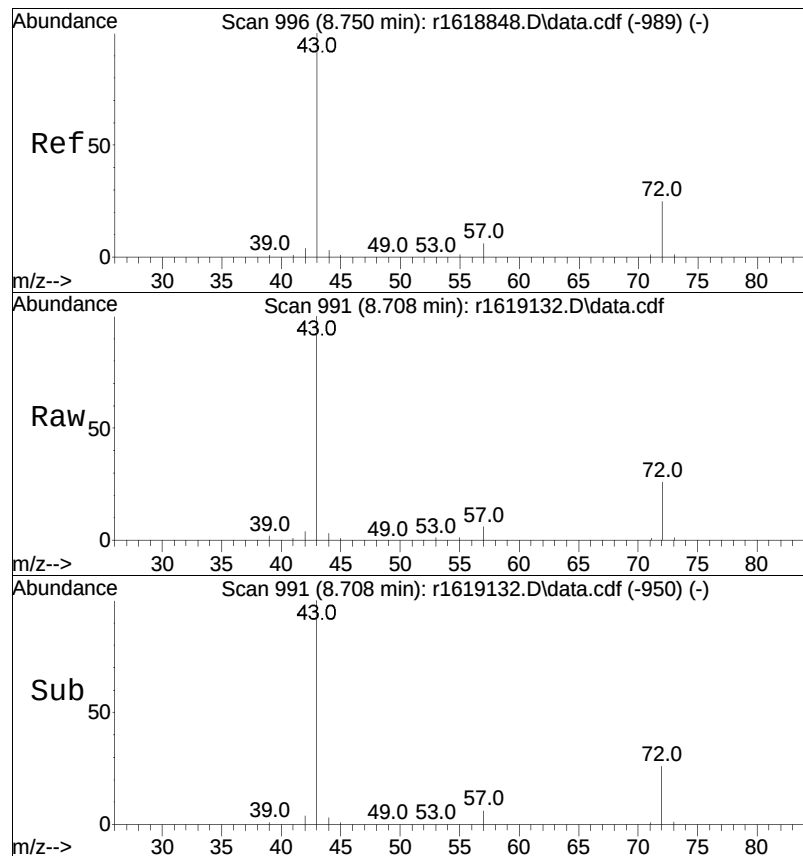




#30
carbon disulfide
Concen: 36.80 ppbV
RT: 7.150 min Scan# 778
Delta R.T. 0.018 min
Lab File: r1619132.D
Acq: 17 Sep 2020 12:47 AM

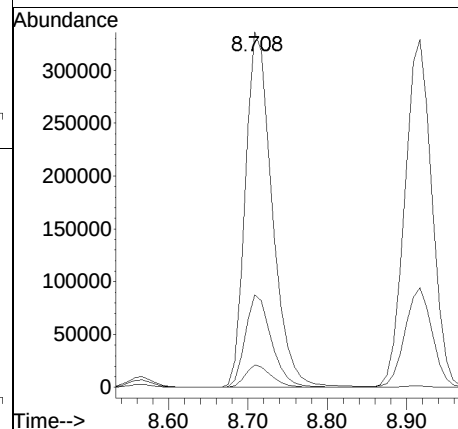
Tgt Ion	Ratio	Lower	Upper
76	100		
44	8.7	7.7	11.5

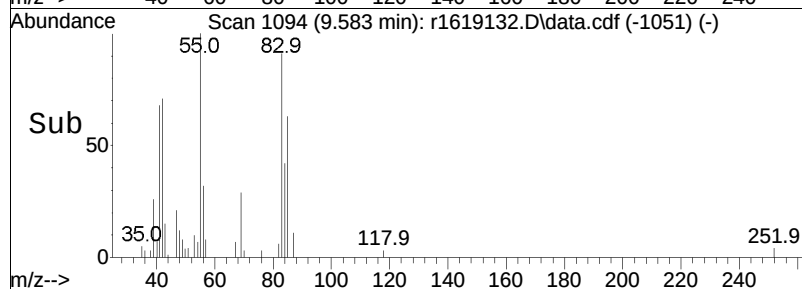
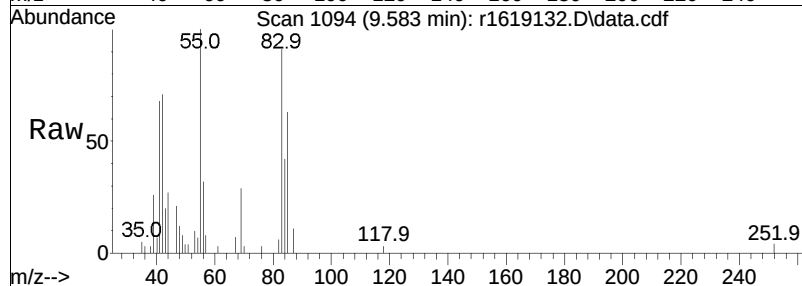
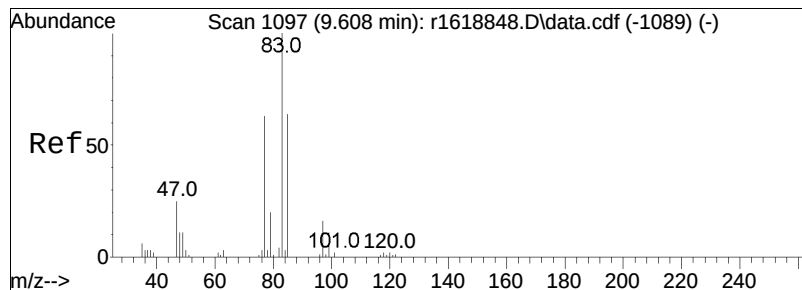




#36
 2-butanone
 Concen: 25.11 ppbV
 RT: 8.708 min Scan# 991
 Delta R.T. 0.008 min
 Lab File: r1619132.D
 Acq: 17 Sep 2020 12:47 AM

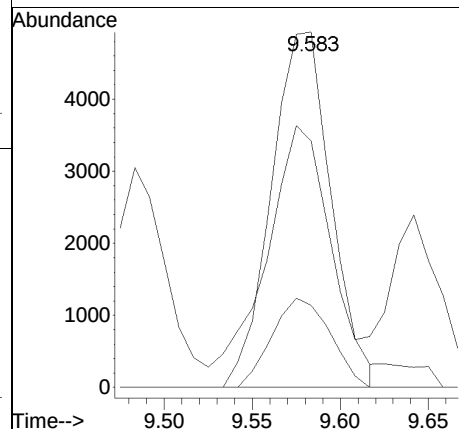
Tgt Ion:	43	Resp:	785971
Ion Ratio	Lower	Upper	
43	100		
72	26.0	19.8	29.6
57	6.3	4.6	6.8

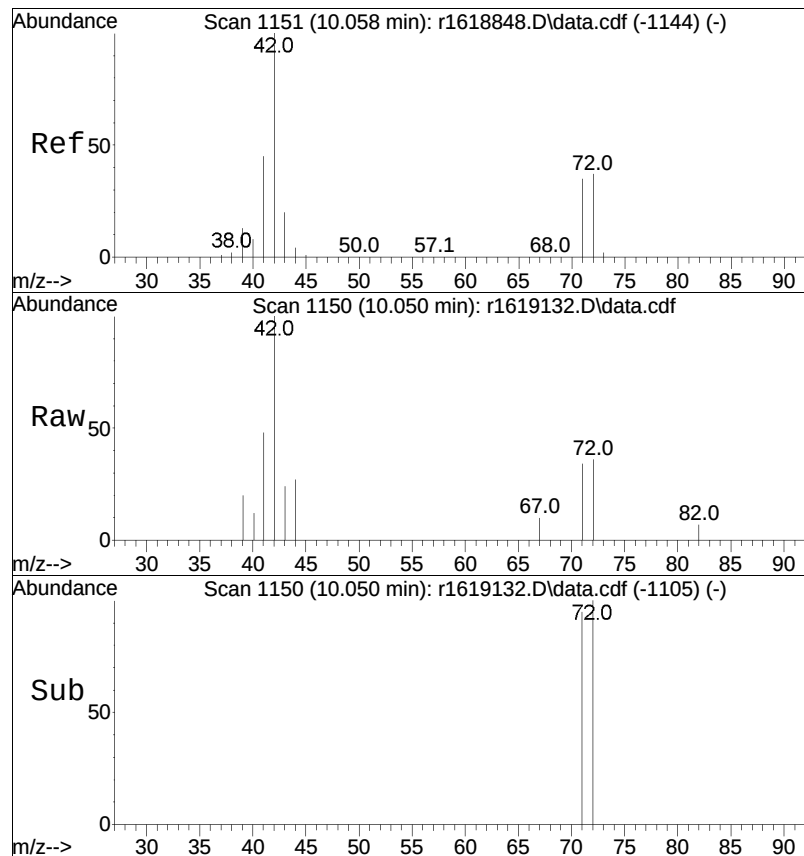




#39
chloroform
Concen: 0.53 ppbV m
RT: 9.583 min Scan# 1094
Delta R.T. 0.025 min
Lab File: r1619132.D
Acq: 17 Sep 2020 12:47 AM

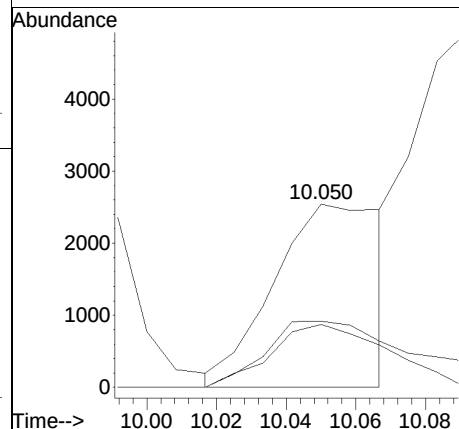
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	11648		
85	69.4		51.5	77.3
47	23.1		20.1	30.1

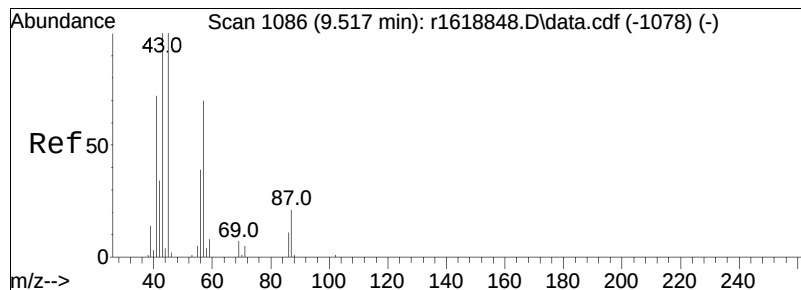




#40
Tetrahydrofuran
Concen: 0.25 ppbV m
RT: 10.050 min Scan# 1150
Delta R.T. 0.042 min
Lab File: r1619132.D
Acq: 17 Sep 2020 12:47 AM

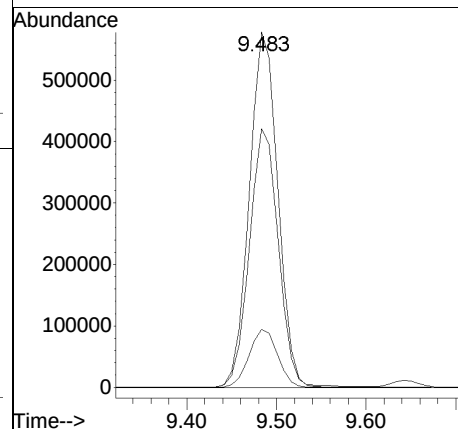
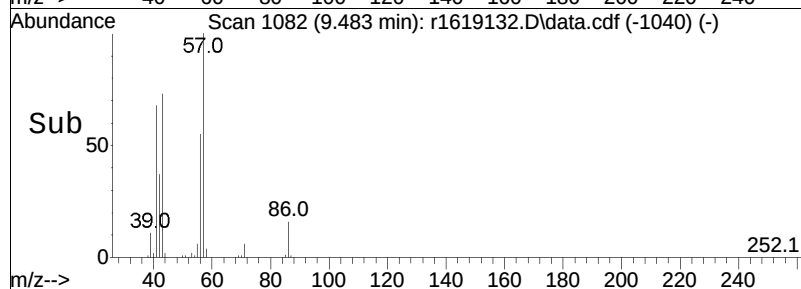
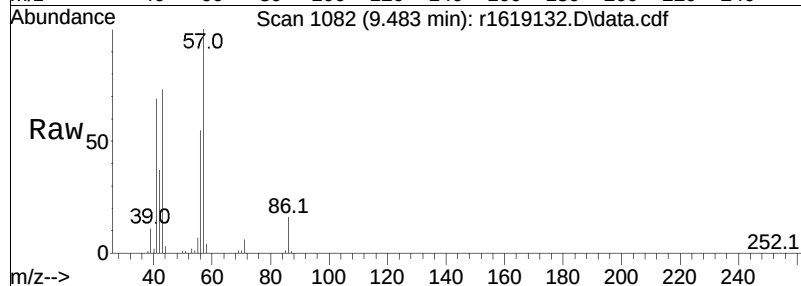
Tgt Ion:	42	Resp:	5542
Ion Ratio	Lower	Upper	
42	100		
71	34.4	28.2	42.2
72	36.1	29.9	44.9

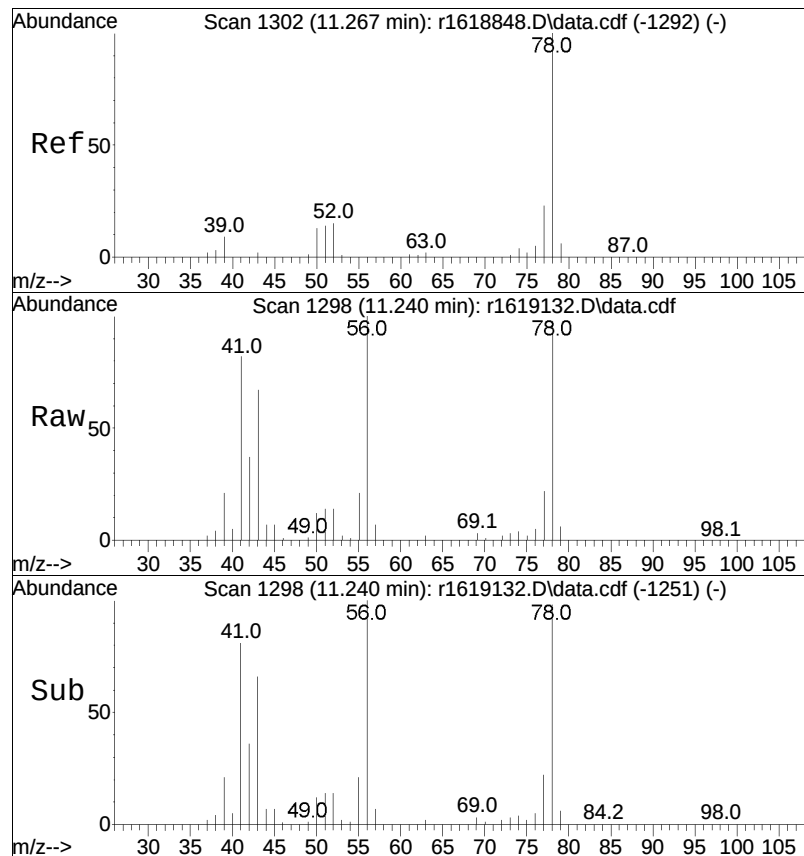




#44
hexane
Concen: 48.15 ppbV
RT: 9.483 min Scan# 1082
Delta R.T. 0.017 min
Lab File: r1619132.D
Acq: 17 Sep 2020 12:47 AM

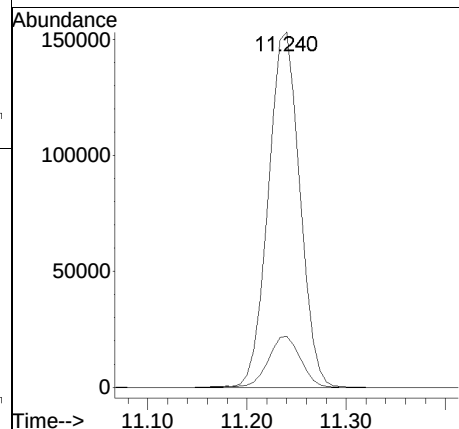
Tgt Ion	Ratio	Lower	Upper
57	100		
43	72.8	114.4	171.6#
86	16.4	12.6	18.8

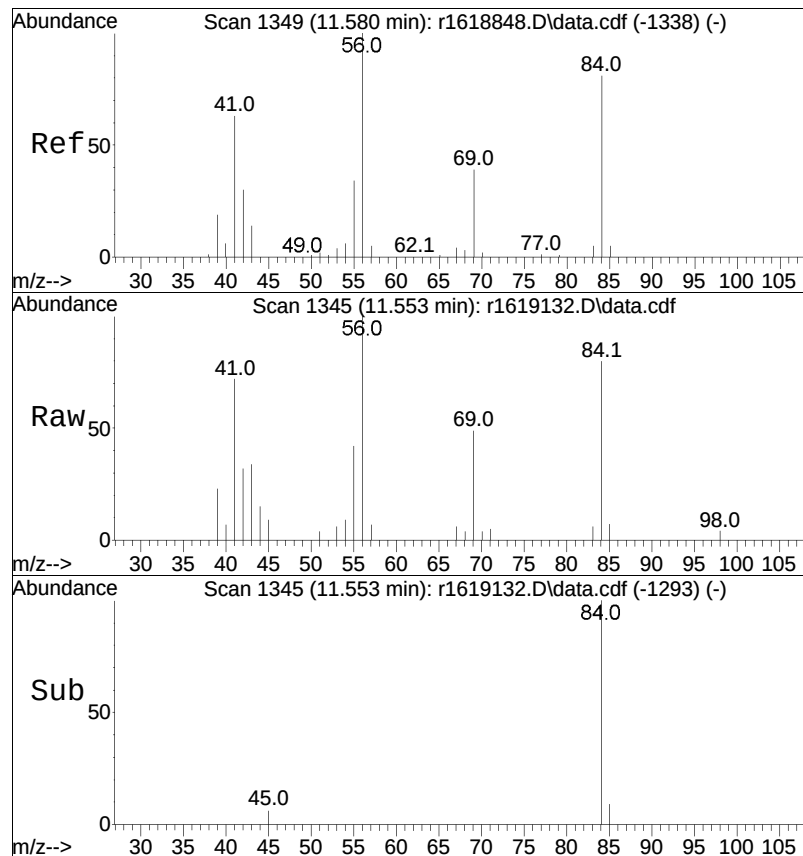




#50
benzene
Concen: 5.92 ppbV
RT: 11.240 min Scan# 1298
Delta R.T. 0.020 min
Lab File: r1619132.D
Acq: 17 Sep 2020 12:47 AM

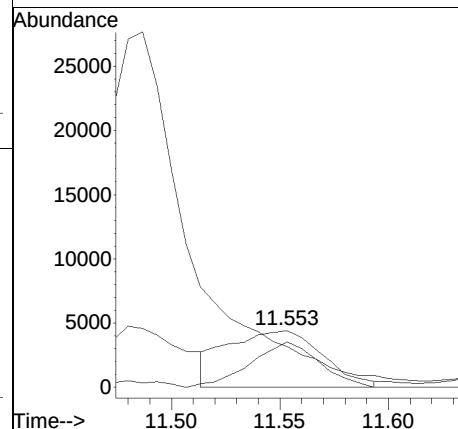
Tgt	Ion	Ratio	Lower	Upper
78	100			
52	14.4		11.8	17.6

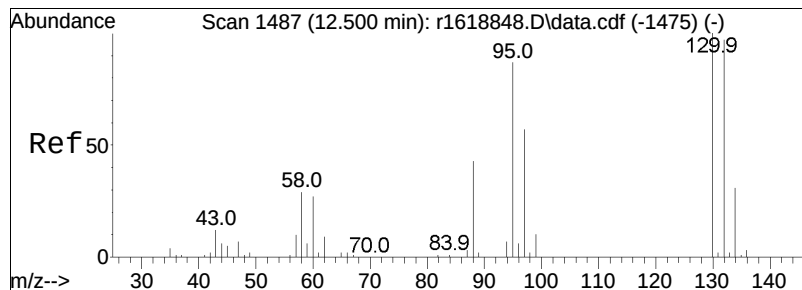




#53
cyclohexane
Concen: 0.47 ppbV m
RT: 11.553 min Scan# 1345
Delta R.T. 0.020 min
Lab File: r1619132.D
Acq: 17 Sep 2020 12:47 AM

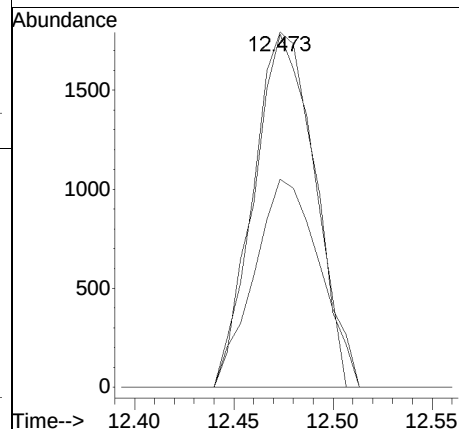
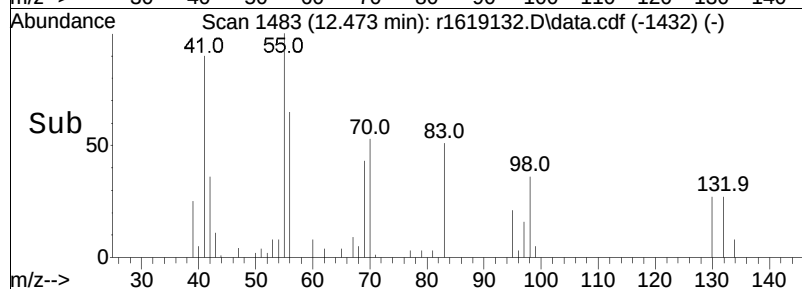
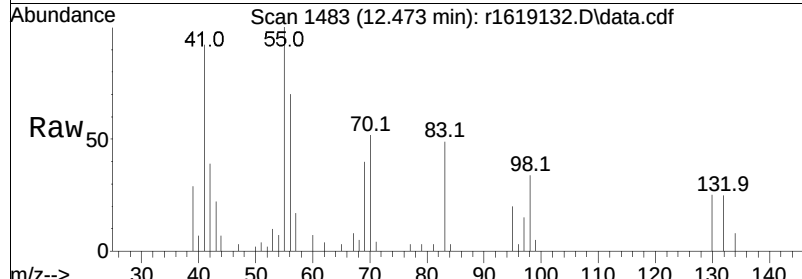
Tgt	Ion	Resp	Lower	Upper
56	100	13526		
84	80.1	64.6	96.8	
41	72.0	50.5	75.7	

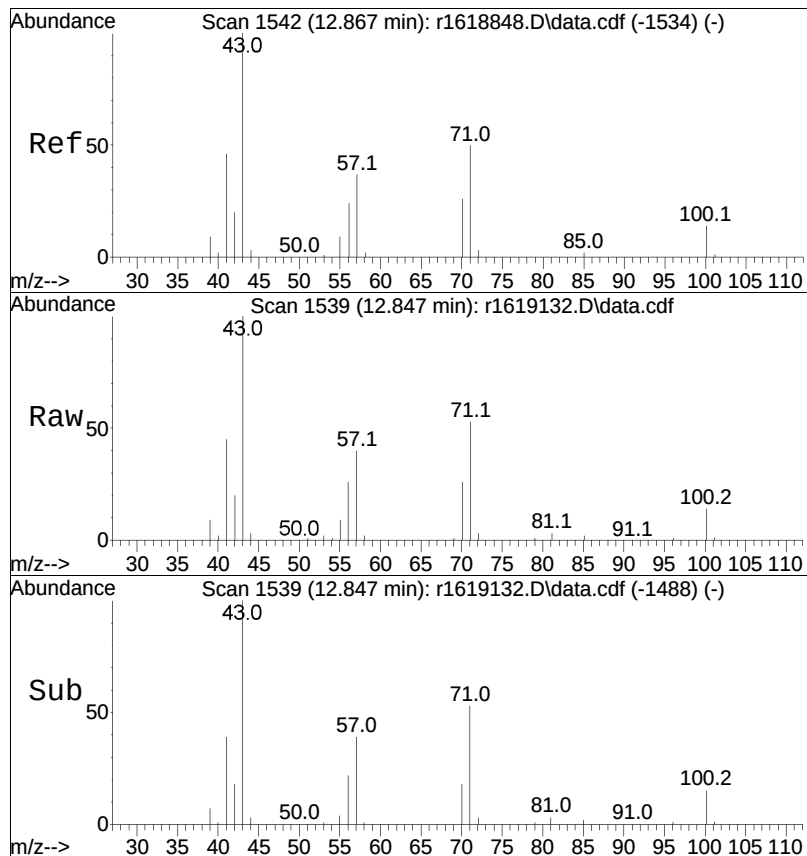




#59
trichloroethene
Concen: 0.16 ppbV
RT: 12.473 min Scan# 1483
Delta R.T. 0.013 min
Lab File: r1619132.D
Acq: 17 Sep 2020 12:47 AM

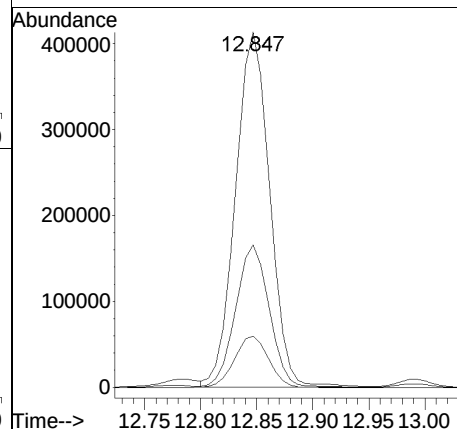
Tgt Ion	Ratio	Lower	Upper
130	100		
132	99.4	77.4	116.2
97	58.6	45.5	68.3

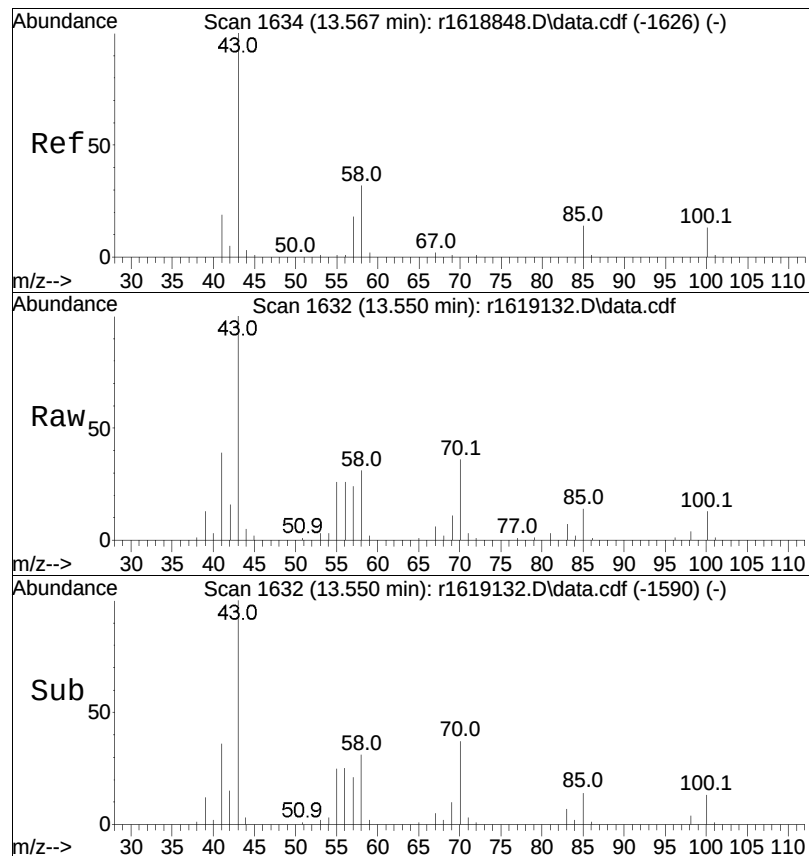




#62
 heptane
 Concen: 19.45 ppbV
 RT: 12.847 min Scan# 1539
 Delta R.T. 0.013 min
 Lab File: r1619132.D
 Acq: 17 Sep 2020 12:47 AM

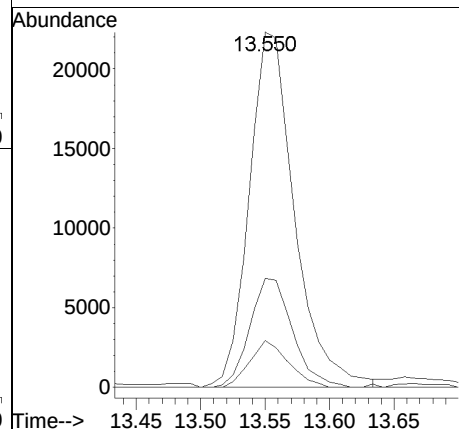
Tgt Ion:	43	Resp:	878304
Ion Ratio	Lower	Upper	
43	100		
57	40.1	29.9	44.9
100	14.4	11.5	17.3

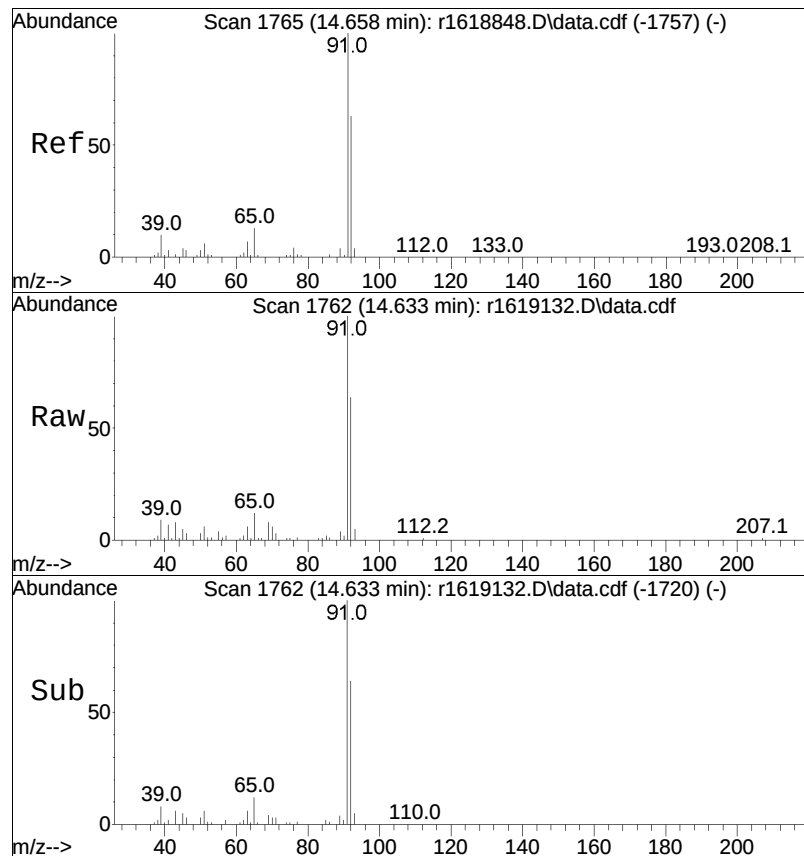




#64
 4-methyl-2-pentanone
 Concen: 1.06 ppbV
 RT: 13.550 min Scan# 1632
 Delta R.T. 0.017 min
 Lab File: r1619132.D
 Acq: 17 Sep 2020 12:47 AM

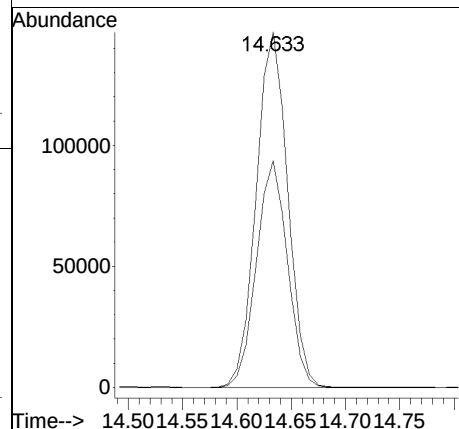
Tgt Ion:	43	58	100	Resp:	54786
Ion Ratio	100	30.7	13.2	Lower	Upper
		25.3	10.2		
		37.9	15.2		

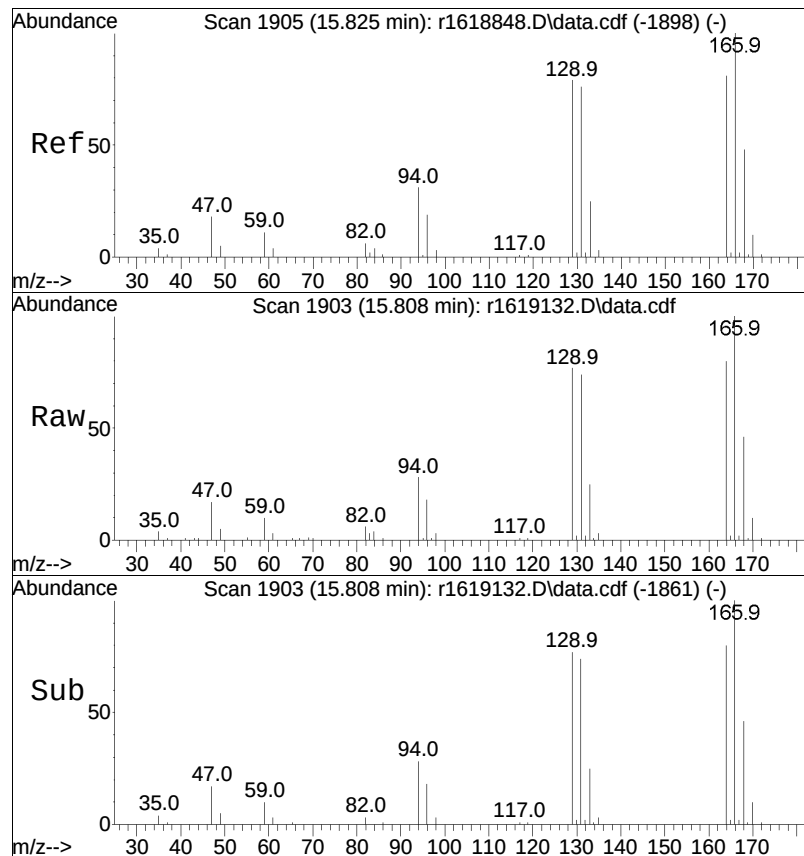




#68
toluene
Concen: 4.66 ppbV
RT: 14.633 min Scan# 1762
Delta R.T. 0.017 min
Lab File: r1619132.D
Acq: 17 Sep 2020 12:47 AM

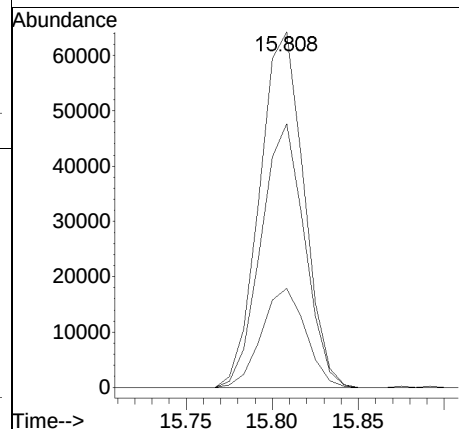
Tgt	Ion	Resp	Lower	Upper
91	100	295356		
92	63.8	50.6	75.8	

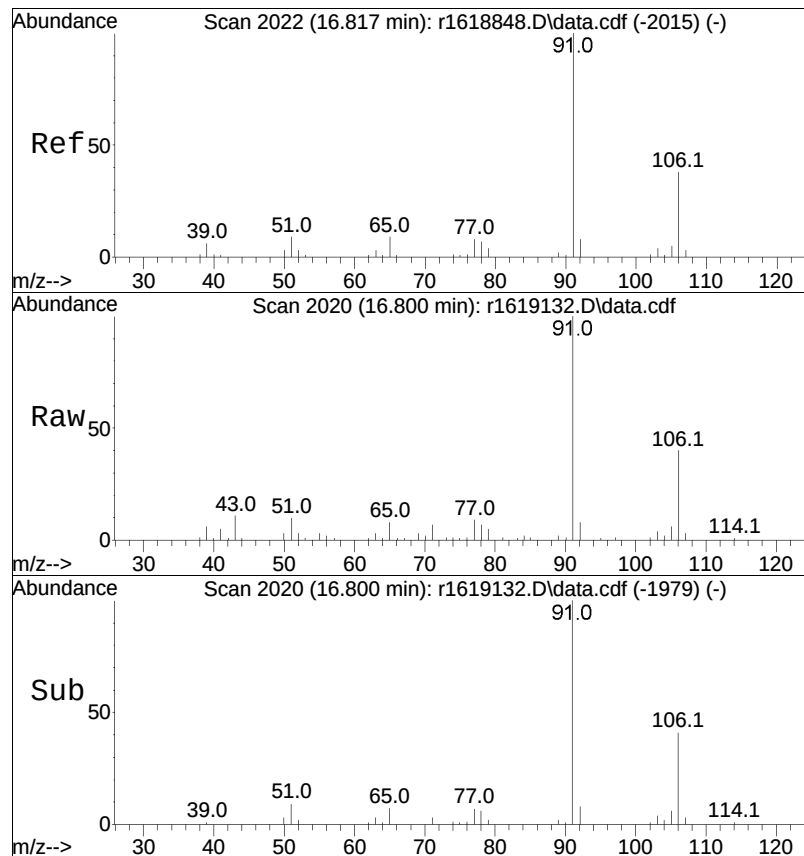




#78
 tetrachloroethene
 Concen: 4.20 ppbV
 RT: 15.808 min Scan# 1903
 Delta R.T. 0.017 min
 Lab File: r1619132.D
 Acq: 17 Sep 2020 12:47 AM

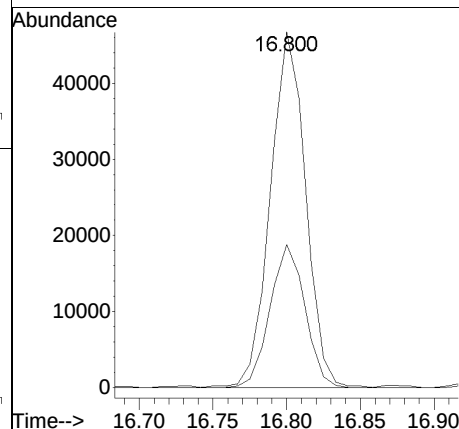
Tgt	Ion:166	Resp:	115069
Ion	Ratio	Lower	Upper
166	100		
131	74.2	61.0	91.6
94	27.9	24.6	37.0

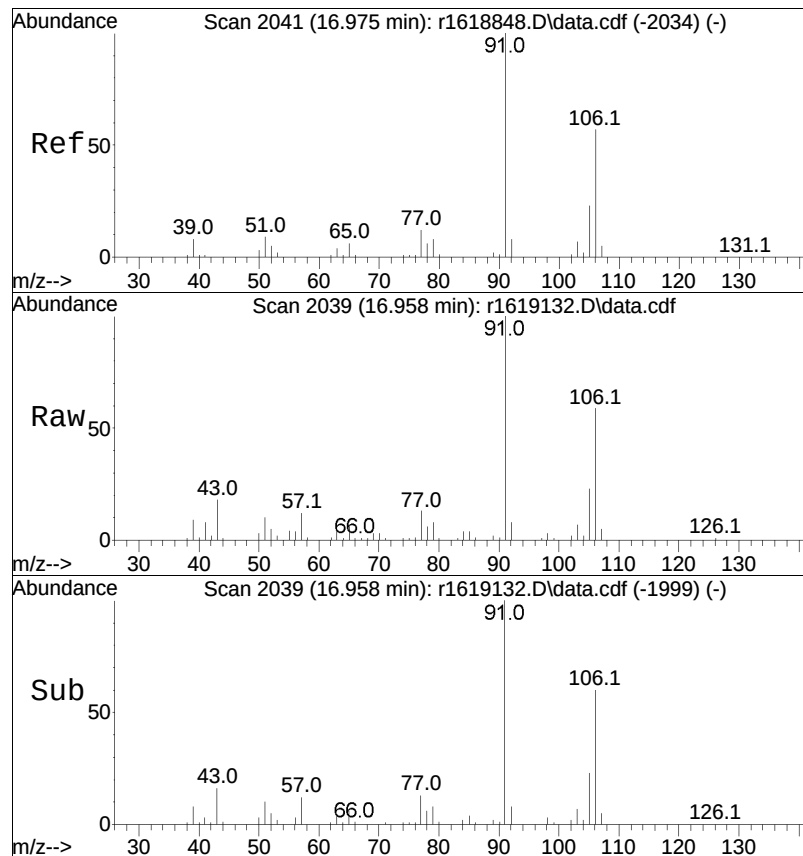




#81
ethylbenzene
Concen: 0.97 ppbV
RT: 16.800 min Scan# 2020
Delta R.T. 0.008 min
Lab File: r1619132.D
Acq: 17 Sep 2020 12:47 AM

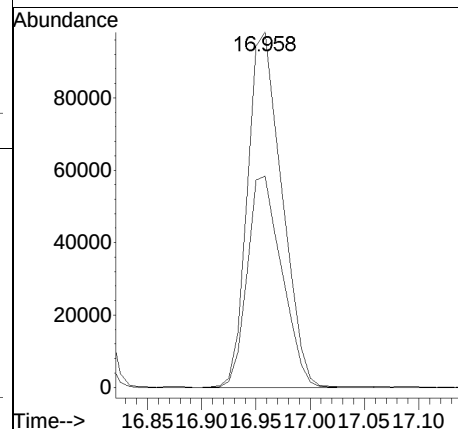
Tgt	Ion	Resp	Lower	Upper
91	100	77468		
106	40.2	30.3	45.5	

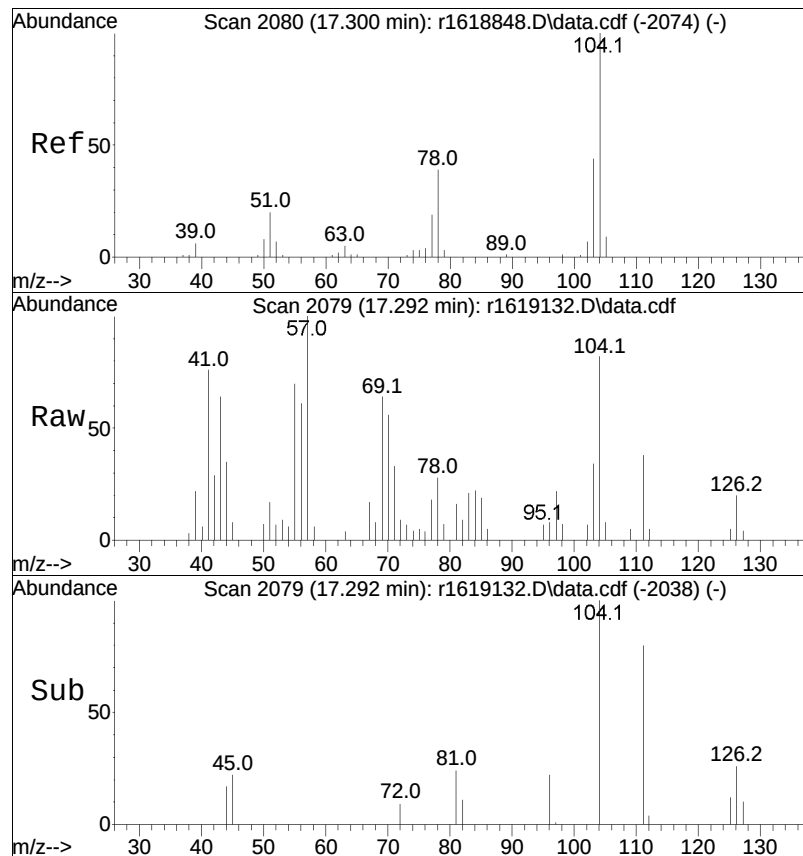




#83
 m+p-xylene
 Concen: 3.35 ppbV
 RT: 16.958 min Scan# 2039
 Delta R.T. 0.000 min
 Lab File: r1619132.D
 Acq: 17 Sep 2020 12:47 AM

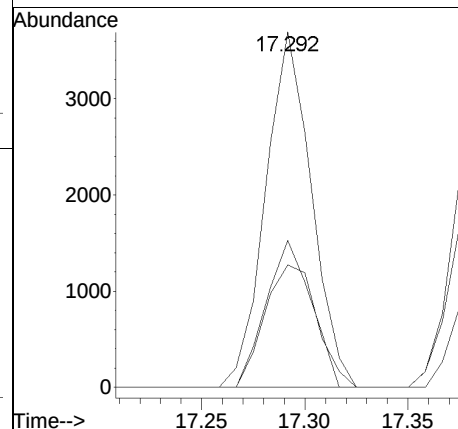
Tgt	Ion	Resp	Lower	Upper
91	100	217209		
106	59.5	45.2	67.8	

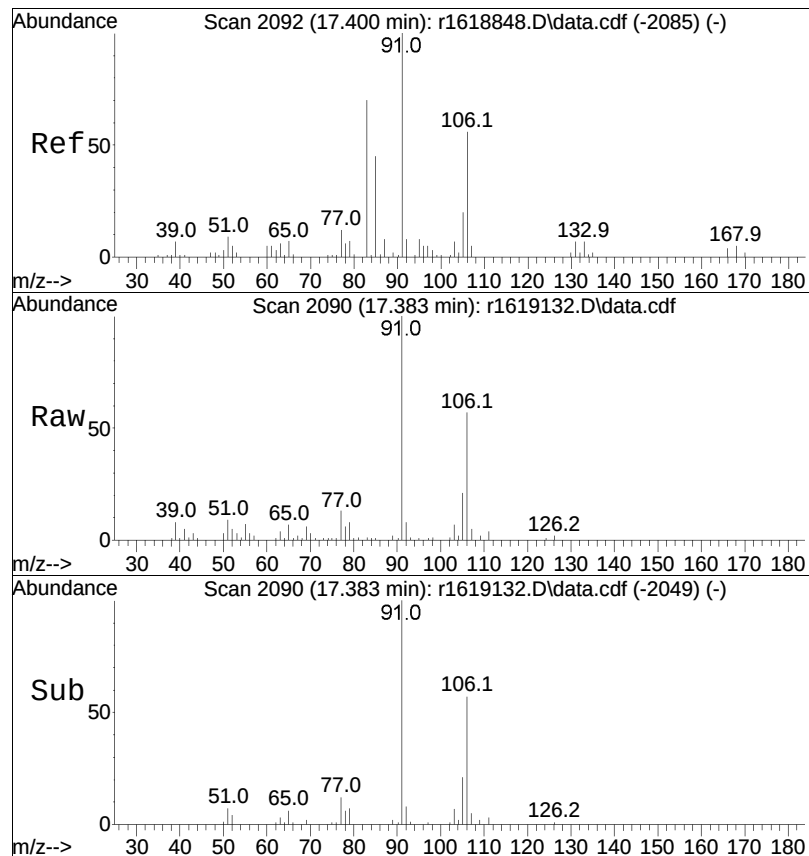




#85
styrene
Concen: 0.10 ppbV
RT: 17.292 min Scan# 2079
Delta R.T. 0.008 min
Lab File: r1619132.D
Acq: 17 Sep 2020 12:47 AM

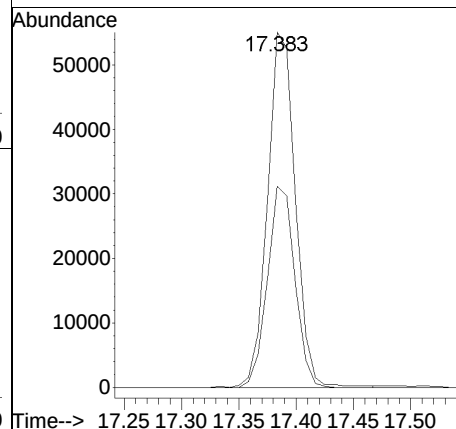
Tgt	Ion:104	Resp:	5712
Ion	Ratio	Lower	Upper
104	100		
103	41.3	35.3	52.9
78	34.5	31.5	47.3

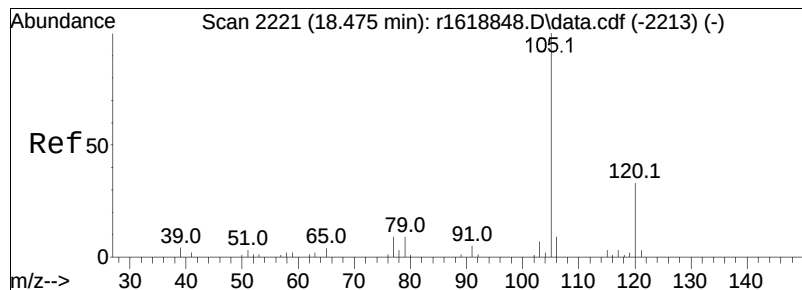




#87
o-xylene
Concen: 1.43 ppbV
RT: 17.383 min Scan# 2090
Delta R.T. 0.008 min
Lab File: r1619132.D
Acq: 17 Sep 2020 12:47 AM

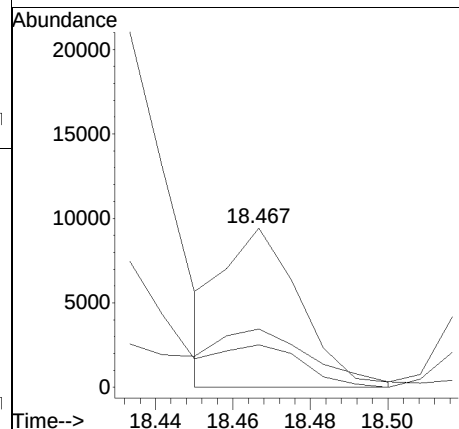
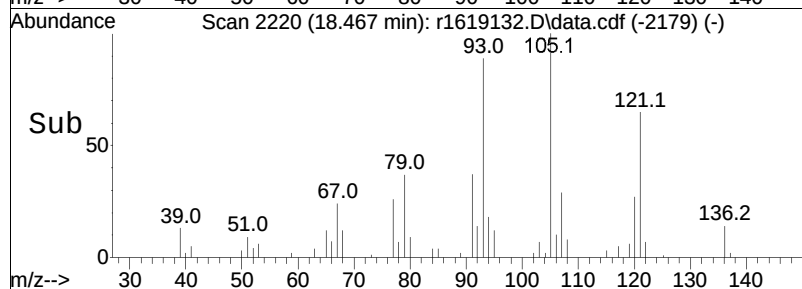
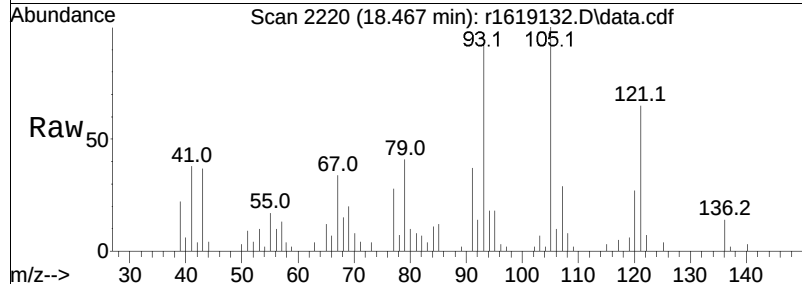
Tgt Ion:	91	Resp:	92920
Ion Ratio	Lower	Upper	
91	100		
106	56.6	44.6	66.8

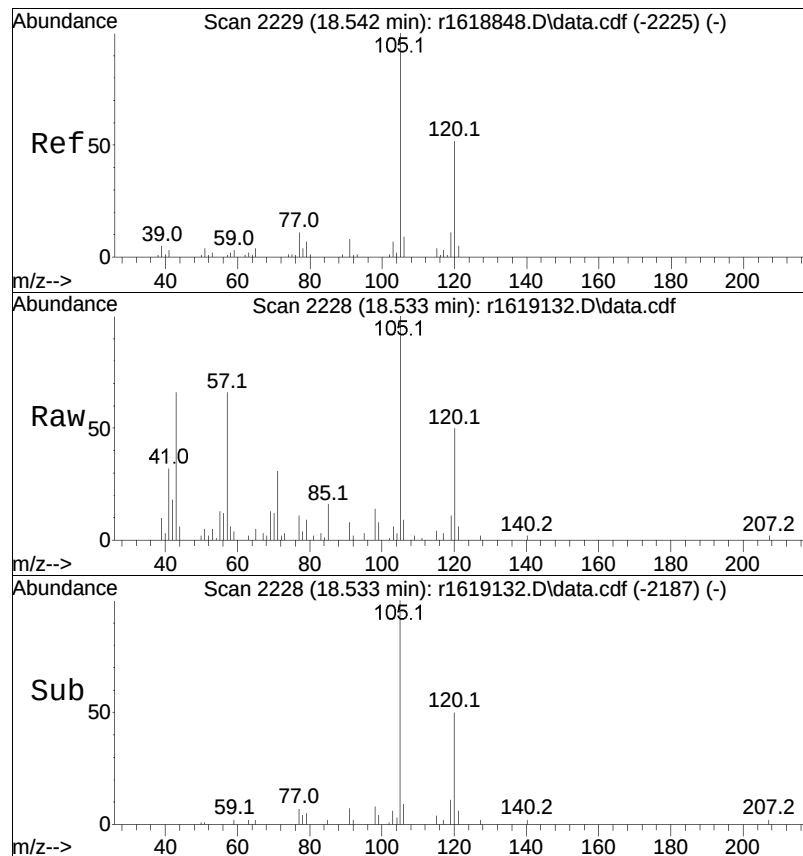




#96
 4-ethyl toluene
 Concen: 0.13 ppbV m
 RT: 18.467 min Scan# 2220
 Delta R.T. 0.008 min
 Lab File: r1619132.D
 Acq: 17 Sep 2020 12:47 AM

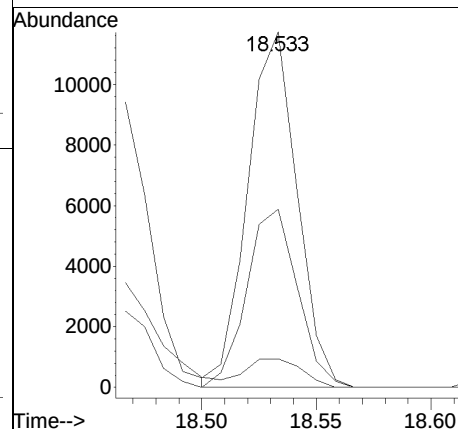
Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.7	26.4	39.6
91	36.7	7.2	10.8

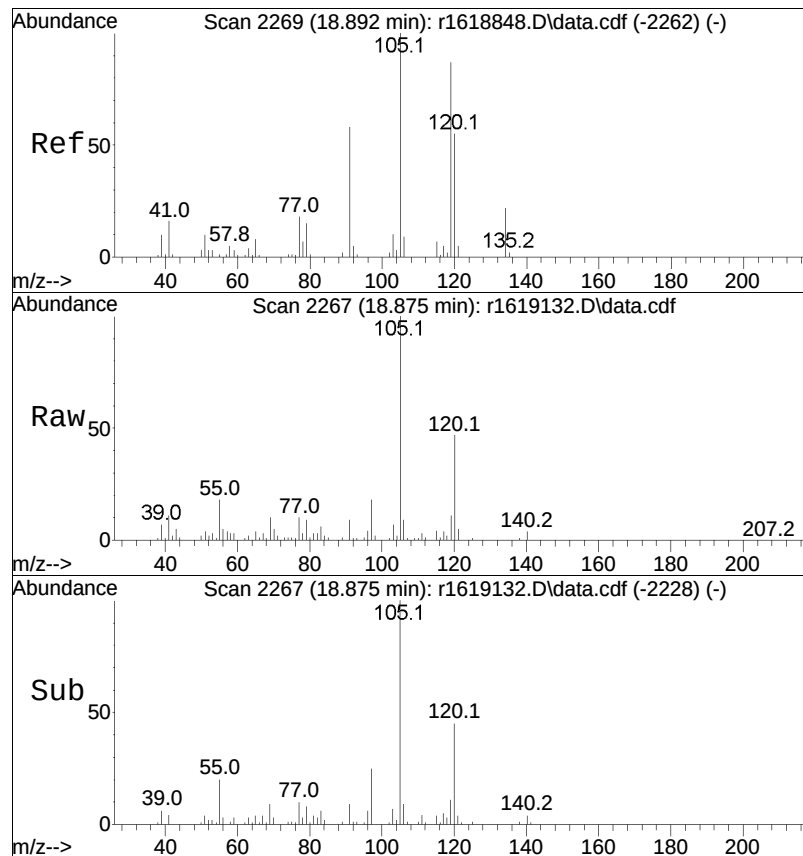




#97
 1,3,5-trimethylbenzene
 Concen: 0.21 ppbV
 RT: 18.533 min Scan# 2228
 Delta R.T. 0.008 min
 Lab File: r1619132.D
 Acq: 17 Sep 2020 12:47 AM

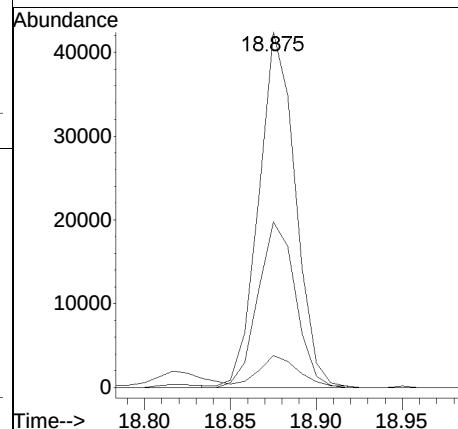
Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.1	41.2	61.8
91	8.1	6.7	10.1





#99
 1,2,4-trimethylbenzene
 Concen: 0.81 ppbV
 RT: 18.875 min Scan# 2267
 Delta R.T. 0.008 min
 Lab File: r1619132.D
 Acq: 17 Sep 2020 12:47 AM

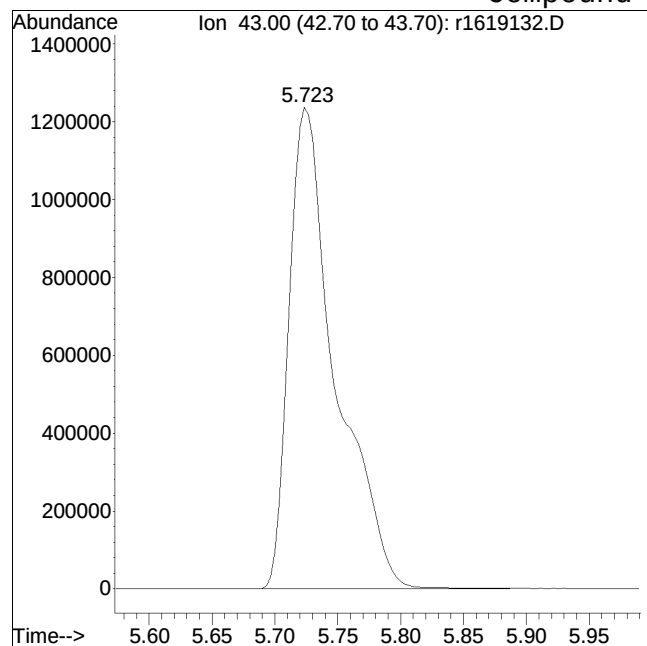
Tgt Ion:	105	Resp:	62856
Ion Ratio	Lower	Upper	
105	100		
120	46.6	44.0	66.0
91	9.0	46.2	69.4#



Manual Integration Report

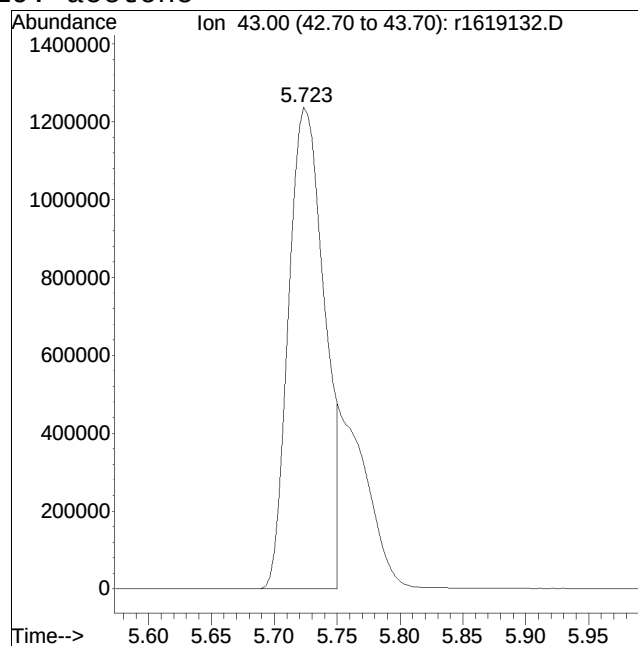
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619132.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:2: 7 Instrument :
Sample : L2037647-07D,3,75,250 Quant Date : 9/17/2020 5:42 am

Compound #19: acetone



Original Peak Response = 3192335

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



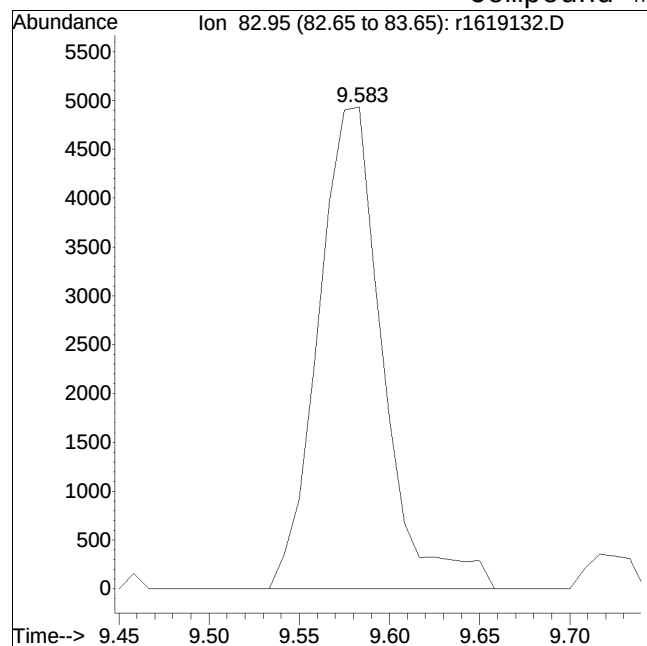
Manual Peak Response = 2469743 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

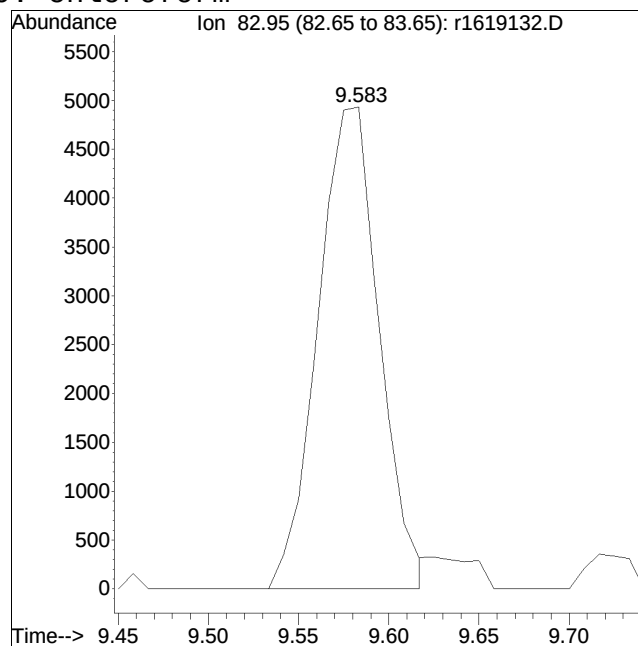
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619132.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:2: 7 Instrument :
Sample : L2037647-07D,3,75,250 Quant Date : 9/17/2020 5:42 am

Compound #39: chloroform



Original Peak Response = 12246

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

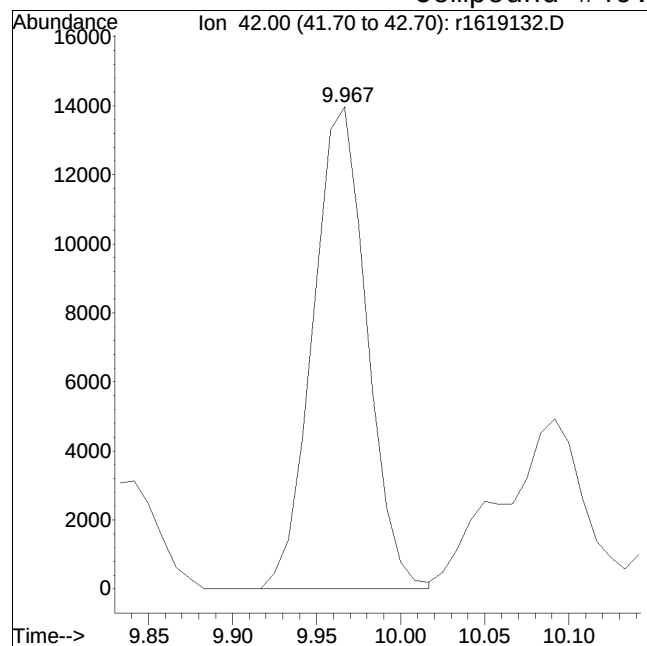


Manual Peak Response = 11648 M6

Manual Integration Report

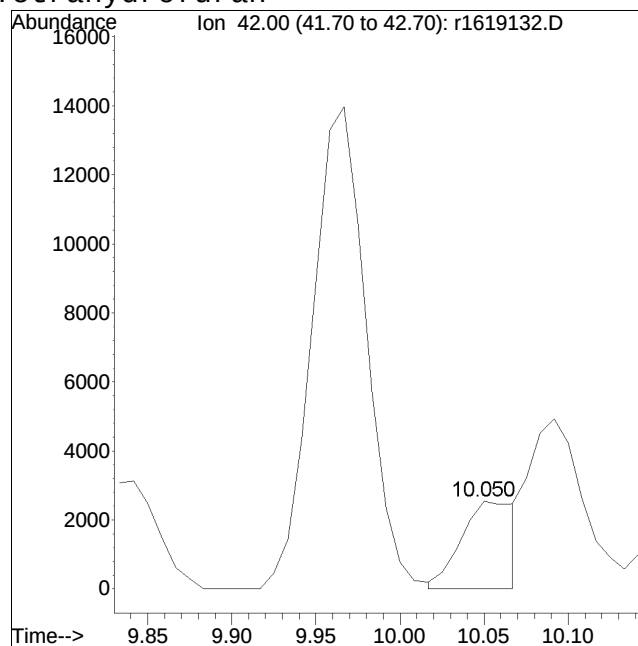
Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619132.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:2: 7 Instrument :
Sample : L2037647-07D,3,75,250 Quant Date : 9/17/2020 5:42 am

Compound #40: Tetrahydrofuran



Original Peak Response = 31167

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

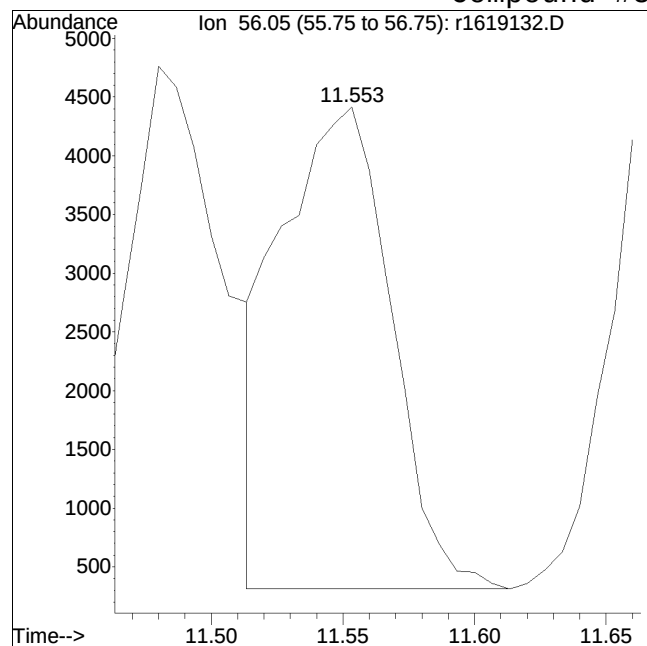


Manual Peak Response = 5542 M6

Manual Integration Report

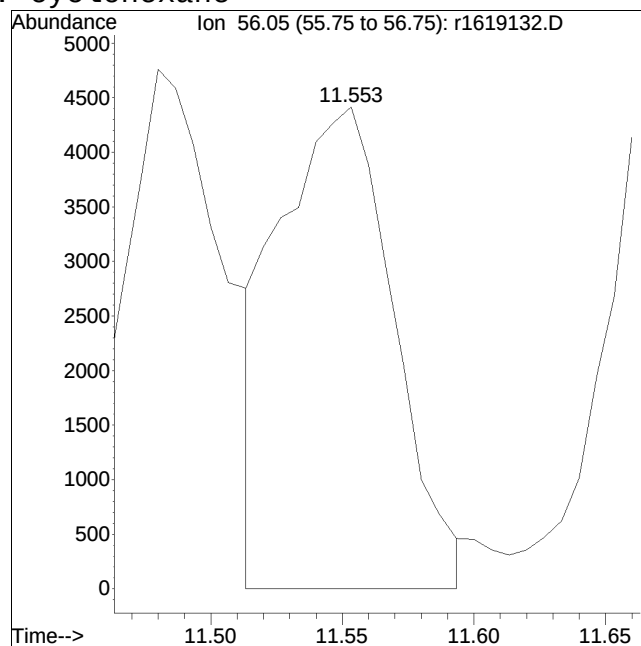
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619132.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:2: 7 Instrument :
Sample : L2037647-07D,3,75,250 Quant Date : 9/17/2020 5:42 am

Compound #53: cyclohexane



Original Peak Response = 12110

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

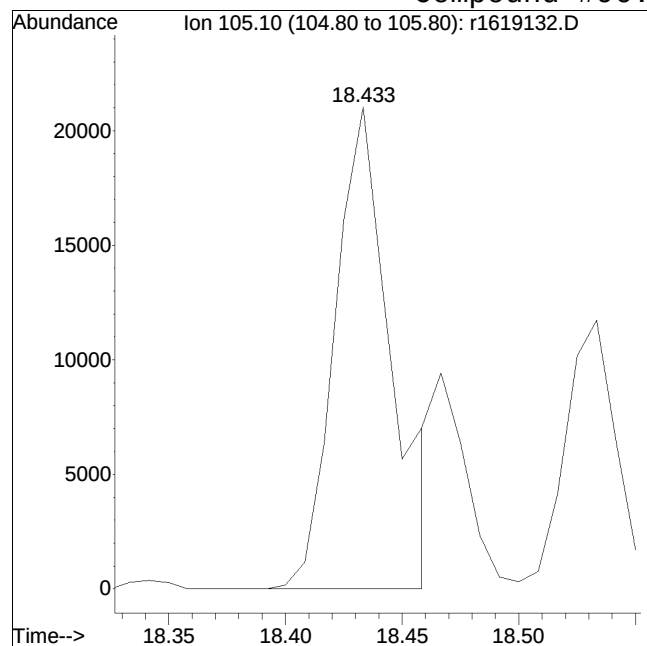


Manual Peak Response = 13526 M6

Manual Integration Report

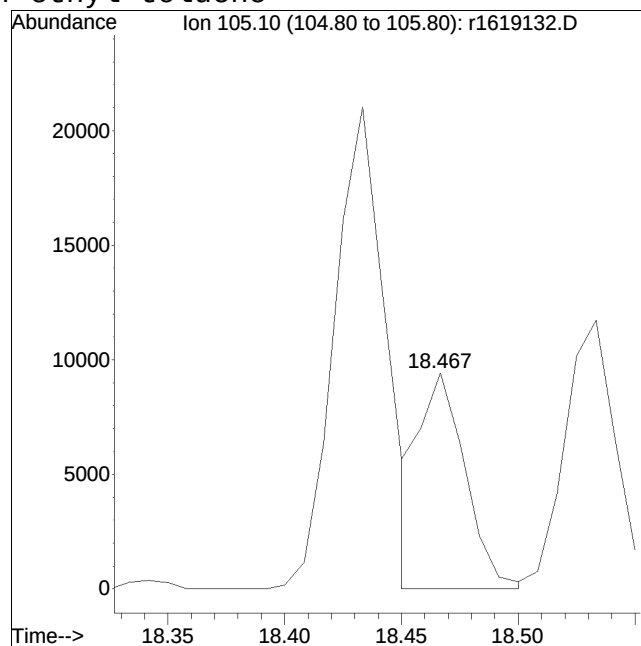
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619132.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:2: 7 Instrument :
Sample : L2037647-07D,3,75,250 Quant Date : 9/17/2020 5:42 am

Compound #96: 4-ethyl toluene



Original Peak Response = 35320

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 13009 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619133.D
 Acq On : 17 Sep 2020 1:27 AM
 Operator : AIRLAB16:TS
 Sample : L2037647-08,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:20:29 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.408	49	231375	10.000	ppbV	0.02
Standard Area = 289019			Recovery =		80.06%	
43) 1,4-difluorobenzene	11.680	114	769123	10.000	ppbV	0.01
Standard Area = 862875			Recovery =		89.13%	
67) chlorobenzene-D5	16.408	54	100833	10.000	ppbV	0.00
Standard Area = 122360			Recovery =		82.41%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.880	85	16795M3	0.766	ppbV	
6) chloromethane	0.000		0	N.D.	d	
7) Freon-114	0.000		0	N.D.	d	
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.480	54	3551	0.325	ppbV	99
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.194	31	21920	2.642	ppbV	97
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.750	43	186781	9.304	ppbV #	98
21) trichlorofluoromethane	5.940	101	53487	3.007	ppbV	99
22) isopropyl alcohol	6.090	45	56914	2.241	ppbV #	95
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	6.832	59	4566	0.247	ppbV #	86
28) methylene chloride	6.862	49	860	0.053	ppbV	100
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	7.150	76	95801	2.263	ppbV #	49
31) Freon 113	7.192	101	2768	0.113	ppbV	96
32) trans-1,2-dichloroethene	7.992		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.350		0	N.D.		
36) 2-butanone	8.733	43	177964	5.624	ppbV	98
37) cis-1,2-dichloroethene	9.217	61	5960	0.399	ppbV	96
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.575	83	223097	9.972	ppbV	99
40) Tetrahydrofuran	10.067	42	4271	0.191	ppbV	96
42) 1,2-dichloroethane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619133.D
 Acq On : 17 Sep 2020 1:27 AM
 Operator : AIRLAB16:TS
 Sample : L2037647-08,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:20:29 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
44) hexane	9.483	57	8450	0.323	ppbV	#	52
48) 1,1,1-trichloroethane	10.708	97	4102	0.179	ppbV	#	85
50) benzene	11.240	78	18689	0.330	ppbV		95
52) carbon tetrachloride	11.413		0	N.D.			
53) cyclohexane	0.000		0	N.D.			
56) 1,2-dichloropropane	0.000		0	N.D.			
57) bromodichloromethane	12.427		0	N.D.			
58) 1,4-dioxane	12.507		0	N.D.			
59) trichloroethene	12.473	130	78974	3.236	ppbV		99
60) 2,2,4-trimethylpentane	12.520	57	62215	0.694	ppbV		95
62) heptane	12.840	43	15792M6	0.354	ppbV		
63) cis-1,3-dichloropropene	0.000		0	N.D.			
64) 4-methyl-2-pentanone	13.567	43	5931	0.116	ppbV	#	91
65) trans-1,3-dichloropropene	0.000		0	N.D.			
66) 1,1,2-trichloroethane	14.450		0	N.D.			
68) toluene	14.633	91	73473	1.176	ppbV		99
72) 2-hexanone	14.950	43	14161M6	0.321	ppbV		
74) dibromochloromethane	0.000		0	N.D.			
75) 1,2-dibromoethane	0.000		0	N.D.			
78) tetrachloroethene	15.808	166	1009581	37.411	ppbV		97
80) chlorobenzene	0.000		0	N.D.	d		
81) ethylbenzene	16.800	91	155194	1.962	ppbV		98
83) m+p-xylene	16.950	91	556713	8.722	ppbV		96
84) bromoform	0.000		0	N.D.			
85) styrene	17.292	104	10198	0.190	ppbV		91
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	d		
87) o-xylene	17.383	91	244210	3.804	ppbV		99
96) 4-ethyl toluene	18.467	105	24692M6	0.258	ppbV		
97) 1,3,5-trimethylbenzene	18.525	105	44947	0.553	ppbV		100
99) 1,2,4-trimethylbenzene	18.875	105	169033	2.212	ppbV	#	62
101) Benzyl Chloride	0.000		0	N.D.	d		
102) 1,3-dichlorobenzene	19.067		0	N.D.			
103) 1,4-dichlorobenzene	19.067		0	N.D.			
107) 1,2-dichlorobenzene	19.358	146	2584	0.053	ppbV	#	1
115) 1,2,4-trichlorobenzene	20.875		0	N.D.			
119) hexachlorobutadiene	0.000		0	N.D.			

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619133.D
 Acq On : 17 Sep 2020 1:27 AM
 Operator : AIRLAB16:TS
 Sample : L2037647-08,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:20:29 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

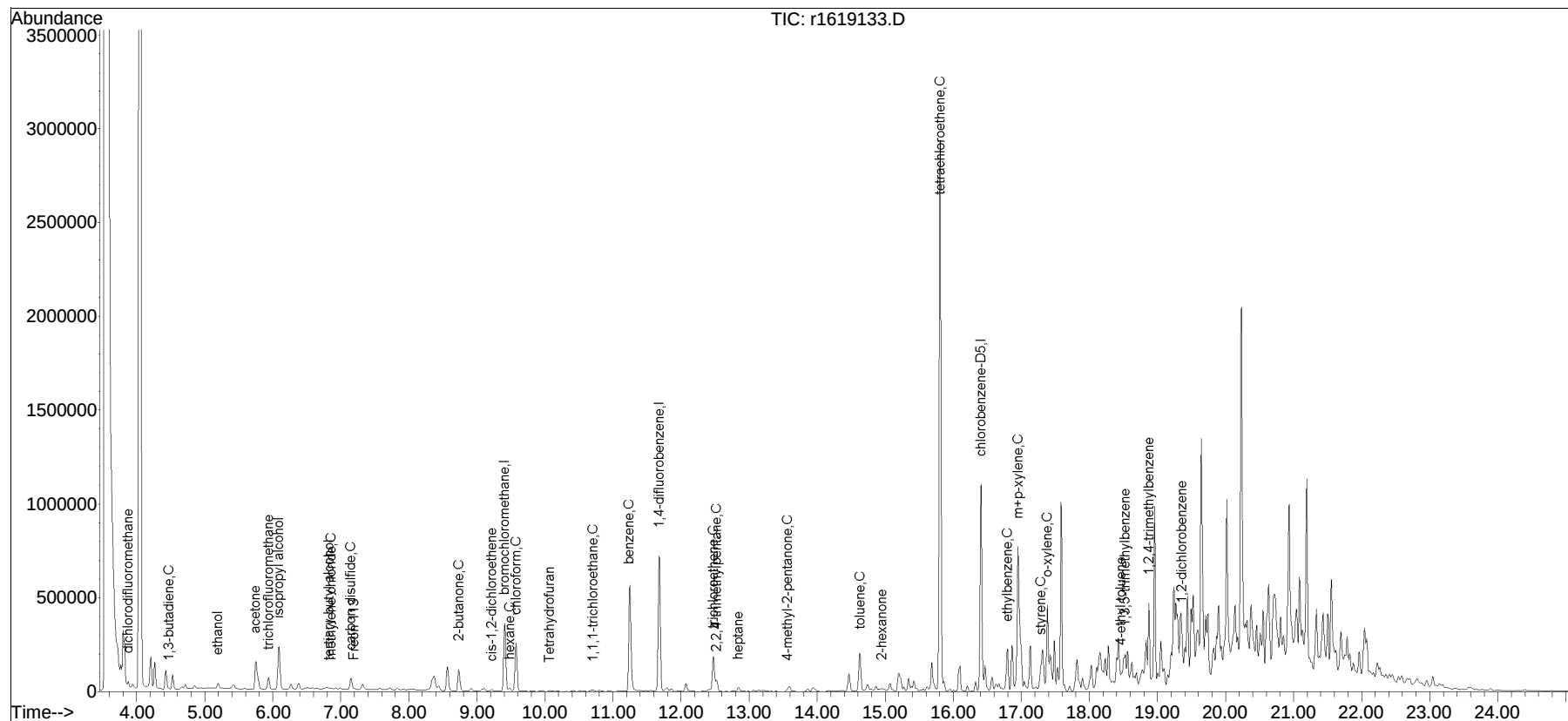
CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

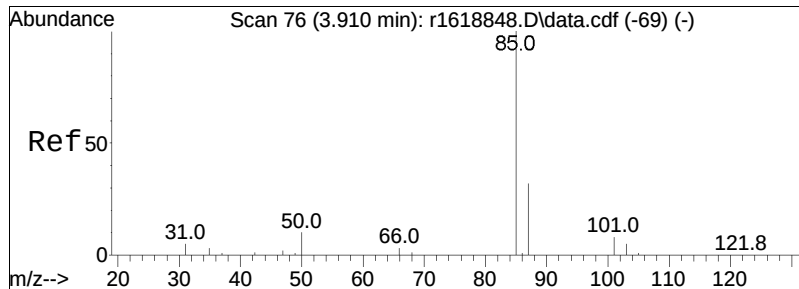
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : T015-NY - .s\Data\Airlab16\2020\09\200916T\r1619115.D

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
Data File : r1619133.D
Acq On : 17 Sep 2020 1:27 AM
Operator : AIRLAB16:TS
Sample : L2037647-08,3,250,250
Misc : WG1410723,ICAL17102
ALS Vial : 0 Sample Multiplier: 1

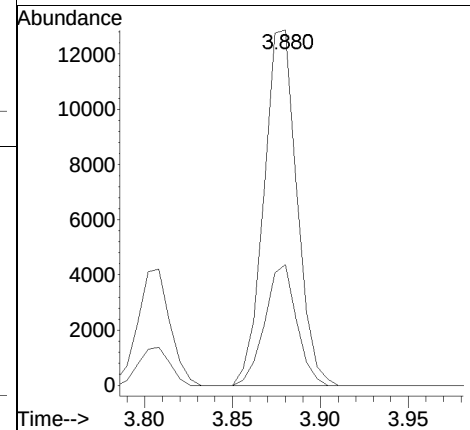
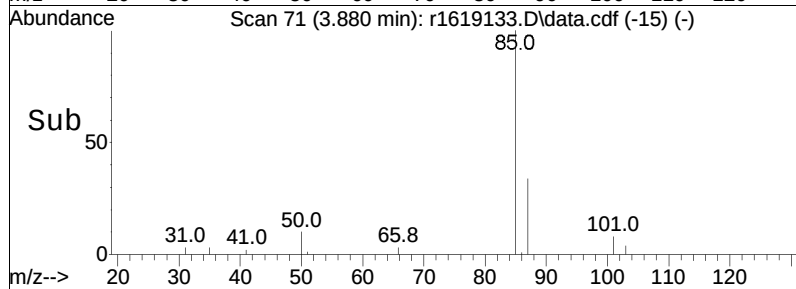
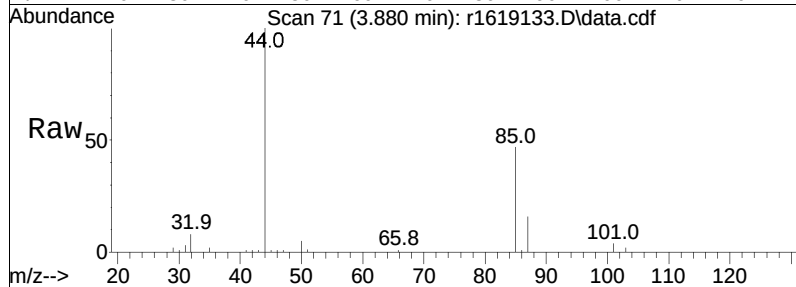
Quant Time: Sep 17 08:20:29 2020
Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Sep 16 13:18:40 2020
Response via : Initial Calibration

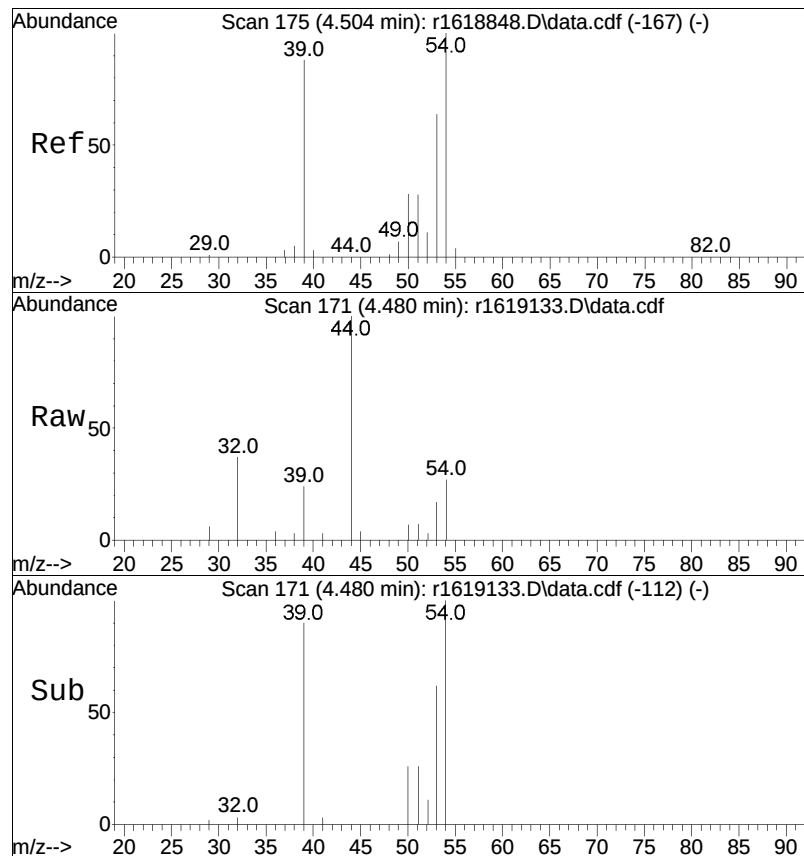




#5
dichlorodifluoromethane
Concen: 0.77 ppbV m
RT: 3.880 min Scan# 71
Delta R.T. 0.006 min
Lab File: r1619133.D
Acq: 17 Sep 2020 1:27 AM

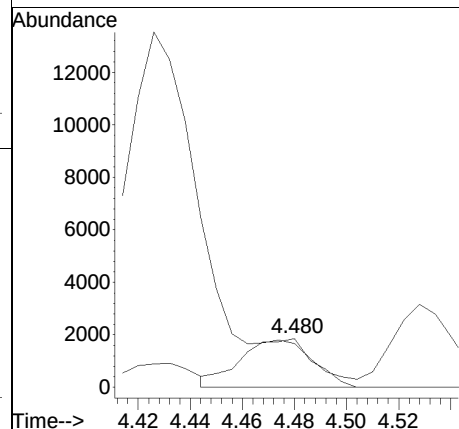
Tgt Ion: 85 Resp: 16795
Ion Ratio Lower Upper
85 100
87 34.0 25.4 38.2

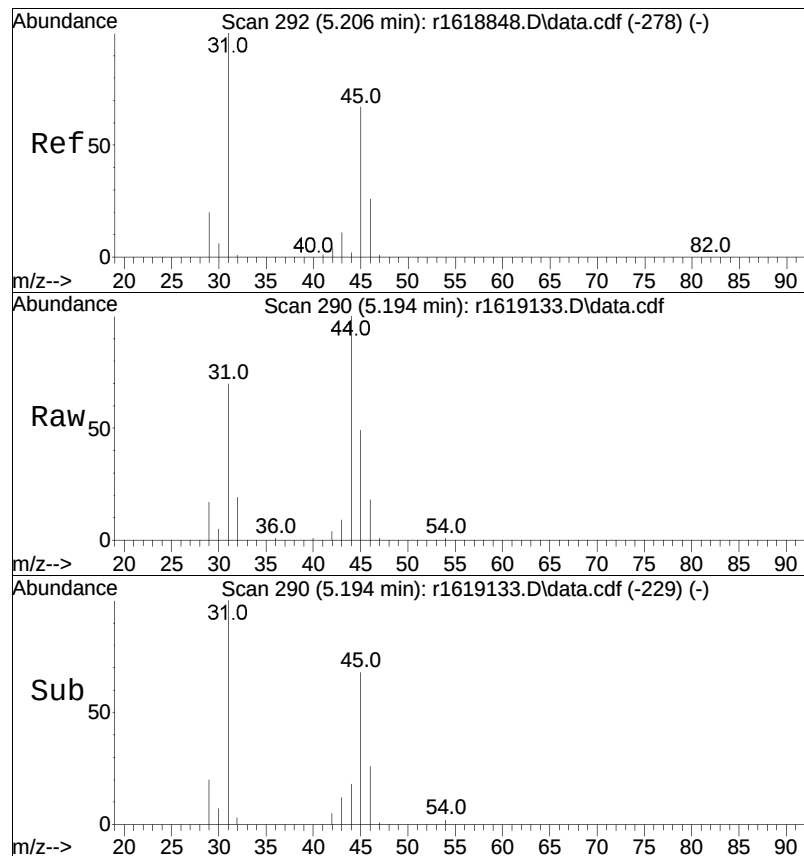




#10
 1,3-butadiene
 Concen: 0.32 ppbV
 RT: 4.480 min Scan# 171
 Delta R.T. 0.024 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

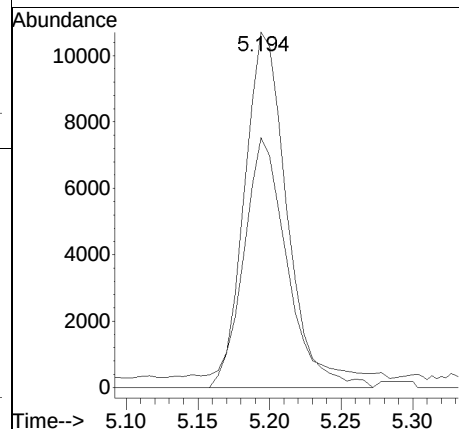
Tgt Ion	Ratio	Lower	Upper
54	100		
39	89.9	70.9	106.3

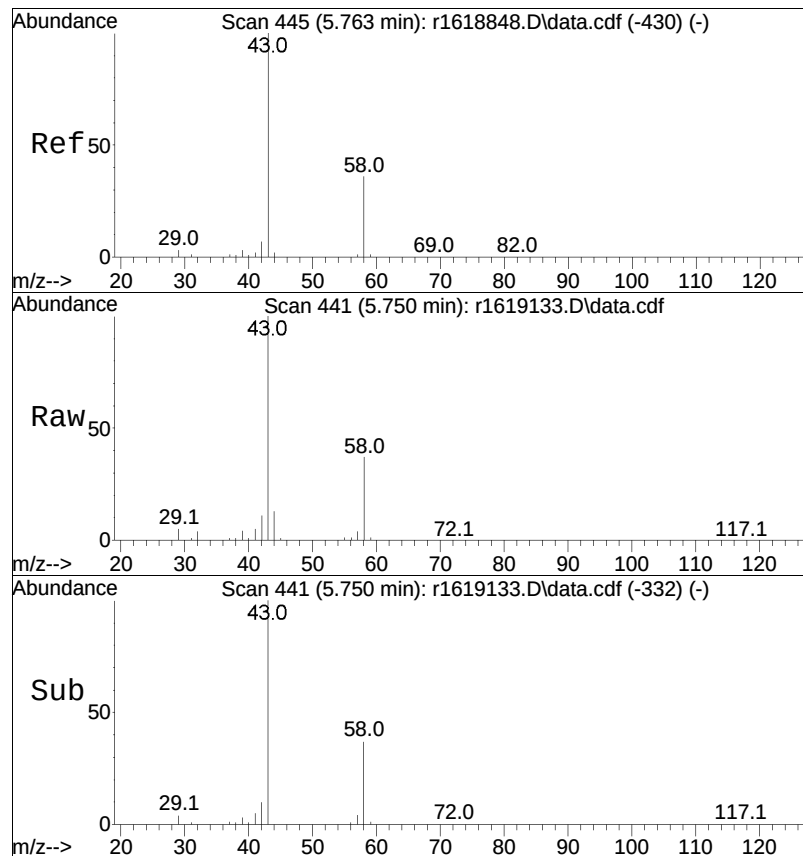




#15
ethanol
Concen: 2.64 ppbV
RT: 5.194 min Scan# 290
Delta R.T. 0.036 min
Lab File: r1619133.D
Acq: 17 Sep 2020 1:27 AM

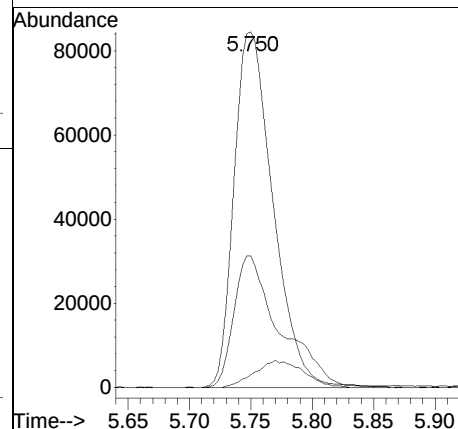
Tgt Ion:	31	Resp:	21920
Ion Ratio	Lower	Upper	
31	100		
45	70.3	54.0	81.0

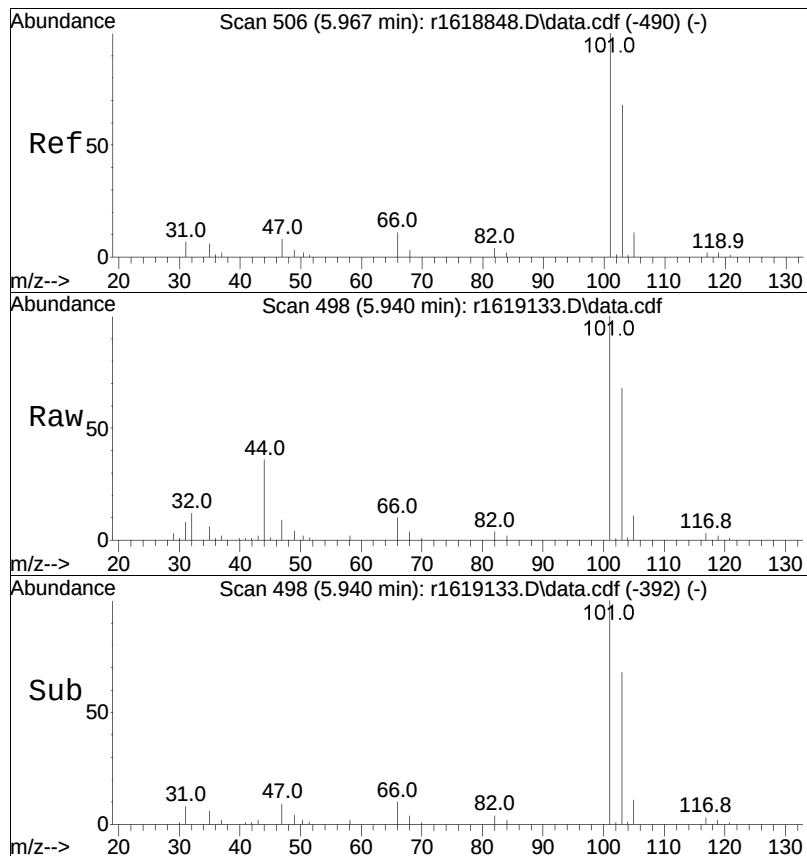




#19
 acetone
 Concen: 9.30 ppbV
 RT: 5.750 min Scan# 441
 Delta R.T. 0.033 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

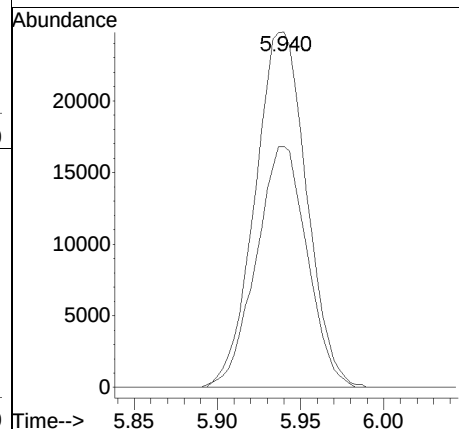
Tgt Ion:	43	Resp:	186781
Ion Ratio	Lower	Upper	
43	100		
58	37.0	28.9	43.3
57	3.6	0.7	1.1#

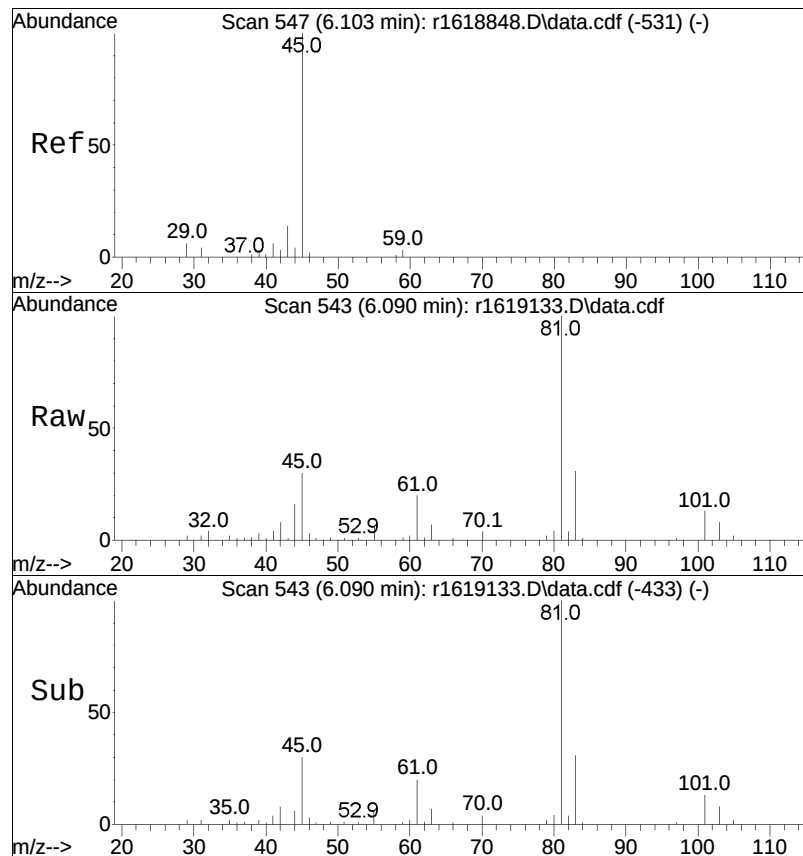




#21
trichlorofluoromethane
Concen: 3.01 ppbV
RT: 5.940 min Scan# 498
Delta R.T. 0.023 min
Lab File: r1619133.D
Acq: 17 Sep 2020 1:27 AM

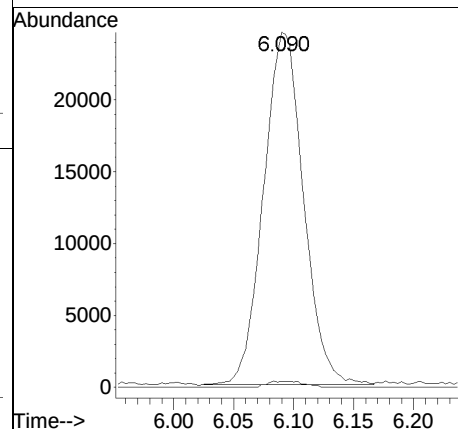
Tgt	Ion	Ratio	Lower	Upper
101	100			
103	67.8	54.6	82.0	

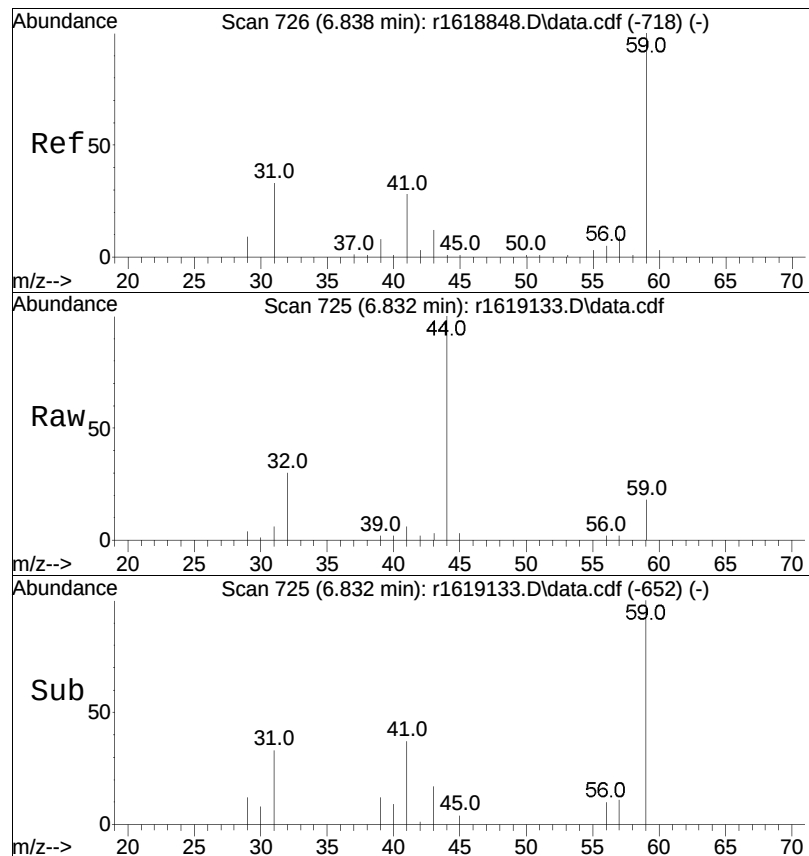




#22
isopropyl alcohol
Concen: 2.24 ppbV
RT: 6.090 min Scan# 543
Delta R.T. 0.037 min
Lab File: r1619133.D
Acq: 17 Sep 2020 1:27 AM

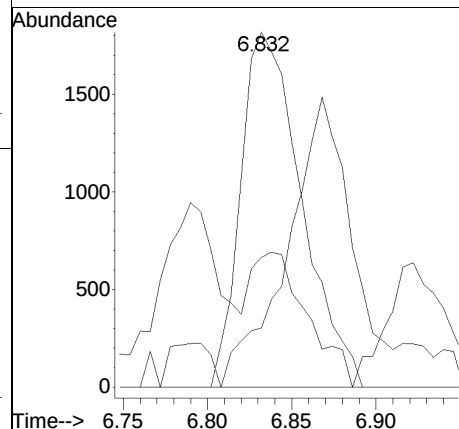
Tgt Ion	Ratio	Lower	Upper
45	100		
59	1.7	2.7	4.1#

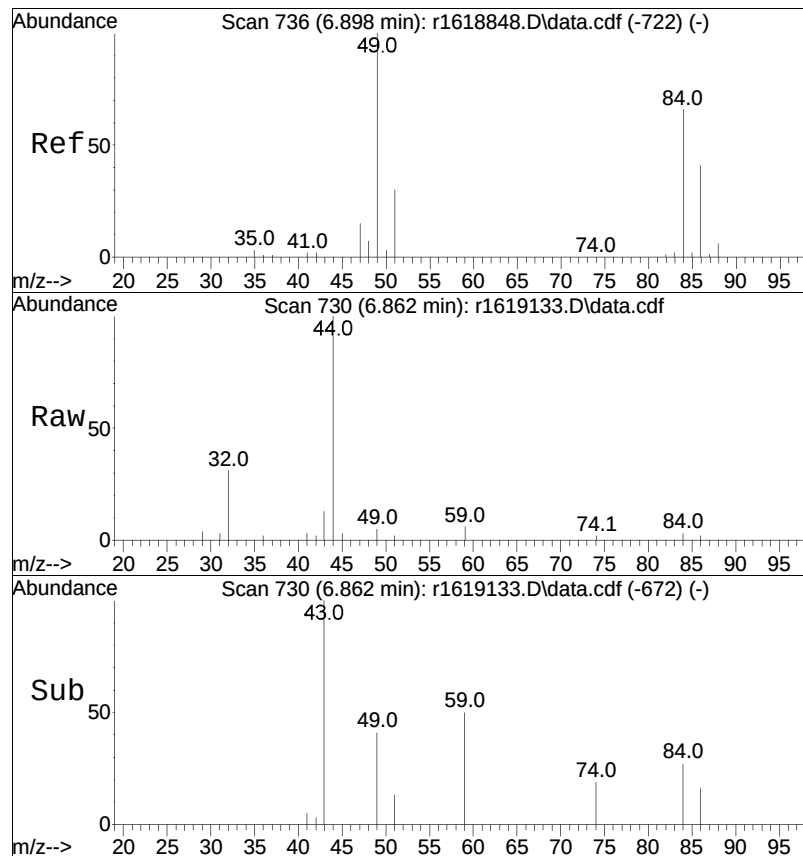




#27
 tertiary butyl alcohol
 Concen: 0.25 ppbV
 RT: 6.832 min Scan# 725
 Delta R.T. 0.048 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

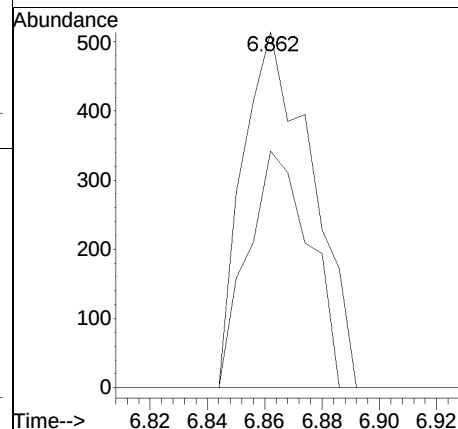
Tgt Ion:	59	Resp:	4566
Ion Ratio	Lower	Upper	
59	100		
41	36.6	22.4	33.6#
43	16.7	10.2	15.2#

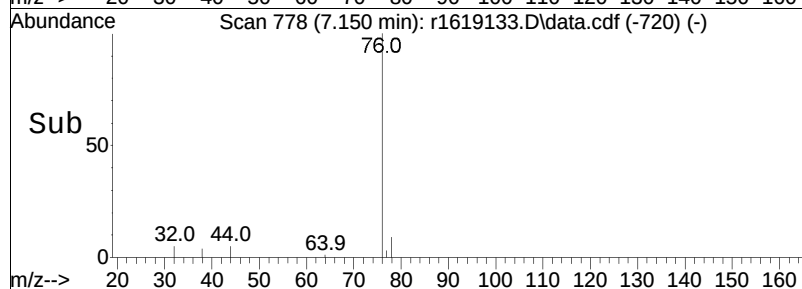
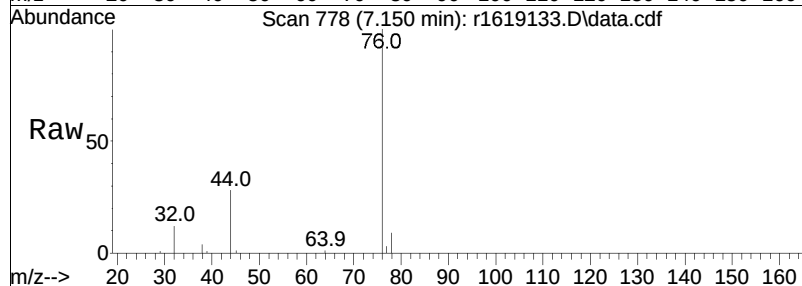
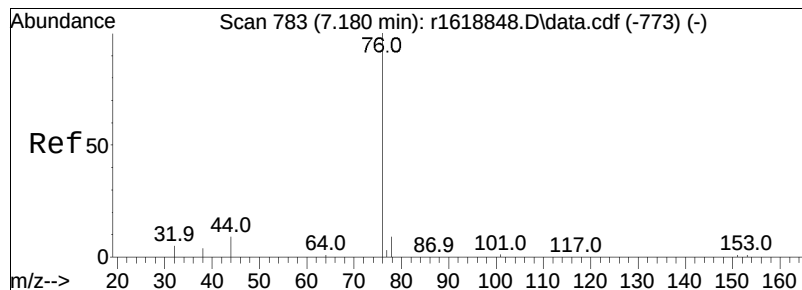




#28
 methylene chloride
 Concen: 0.05 ppbV
 RT: 6.862 min Scan# 730
 Delta R.T. 0.012 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

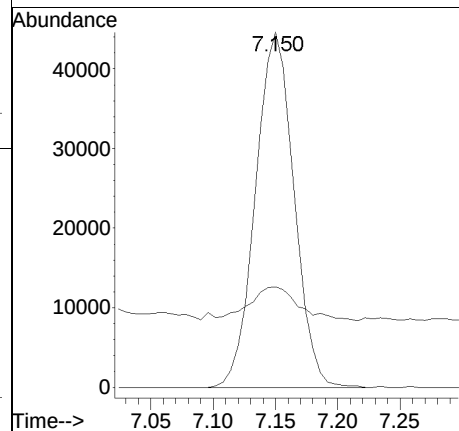
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	100	66.5		53.2	860

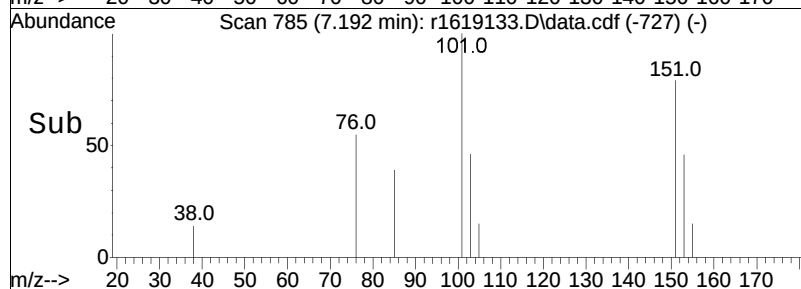
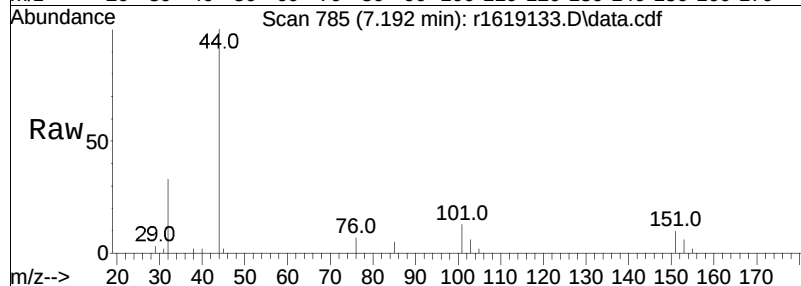
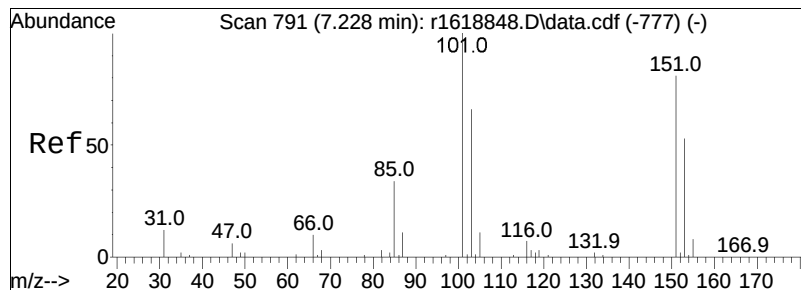




#30
carbon disulfide
Concen: 2.26 ppbV
RT: 7.150 min Scan# 778
Delta R.T. 0.018 min
Lab File: r1619133.D
Acq: 17 Sep 2020 1:27 AM

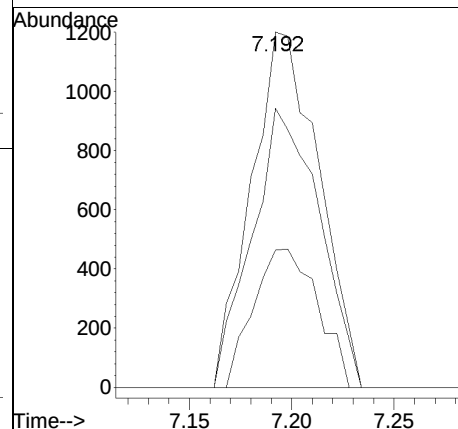
Tgt Ion	Ratio	Lower	Upper
76	100		
44	28.3	7.7	11.5#

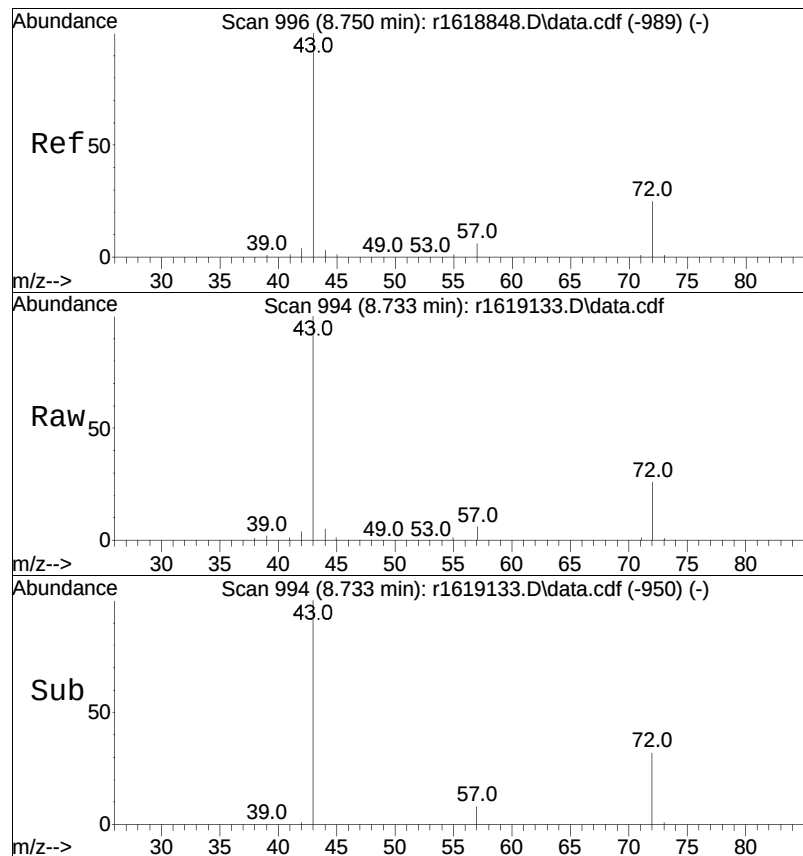




#31
 Freon 113
 Concen: 0.11 ppbV
 RT: 7.192 min Scan# 785
 Delta R.T. 0.018 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

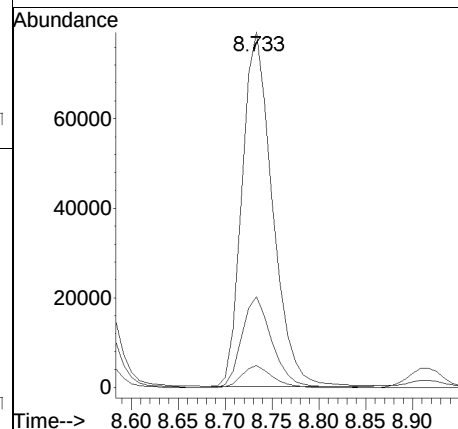
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	2768		
85	38.6		27.5	41.3
151	78.5		65.1	97.7

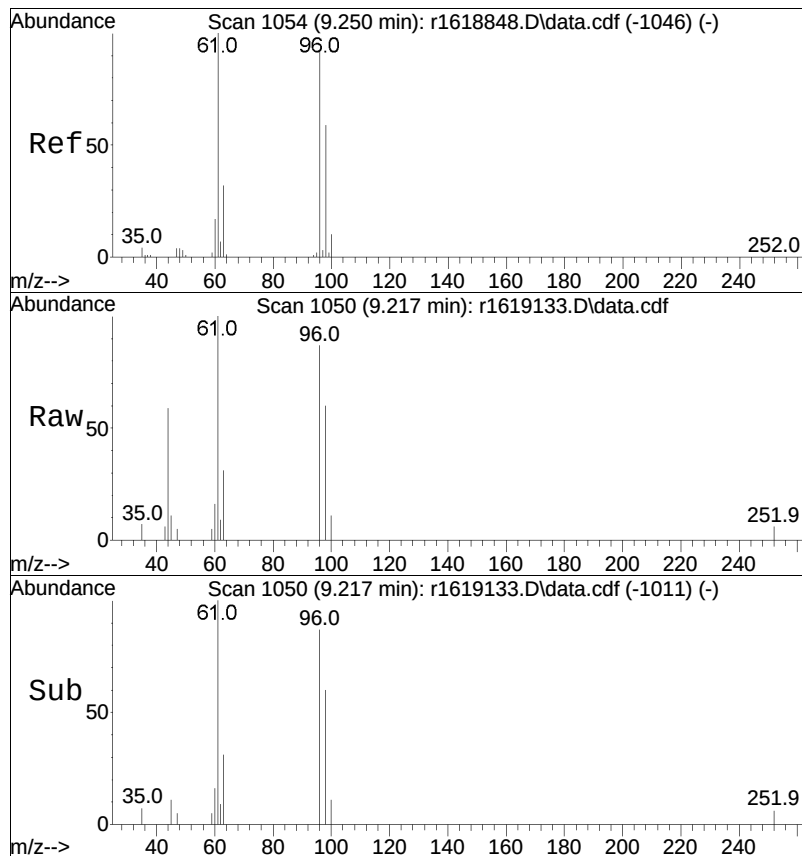




#36
 2-butanone
 Concen: 5.62 ppbV
 RT: 8.733 min Scan# 994
 Delta R.T. 0.033 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

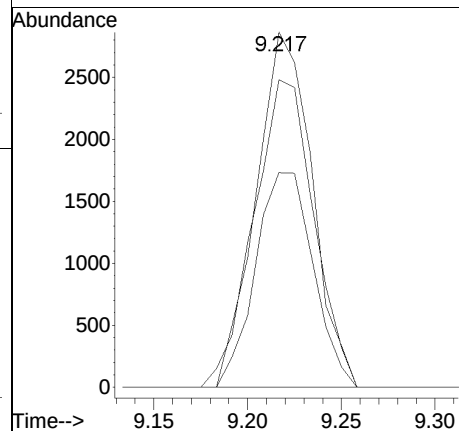
Tgt Ion:	43	Resp:	177964
Ion Ratio	Lower	Upper	
43	100		
72	25.6	19.8	29.6
57	6.2	4.6	6.8

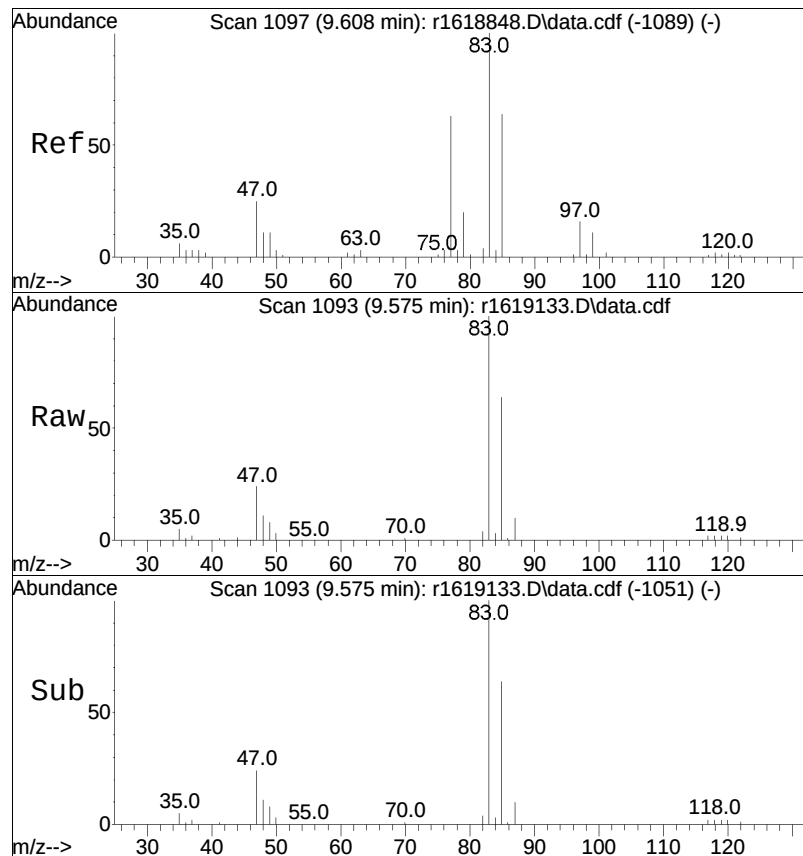




#37
 cis-1,2-dichloroethene
 Concen: 0.40 ppbV
 RT: 9.217 min Scan# 1050
 Delta R.T. 0.008 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

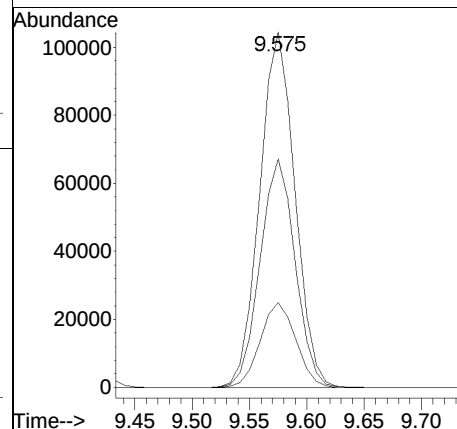
Tgt Ion:	61	Resp:	5960
Ion Ratio	Lower	Upper	
61	100		
96	86.6	74.1	111.1
98	60.5	47.4	71.0

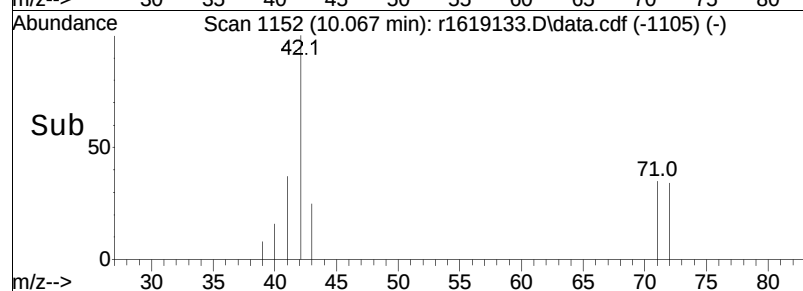
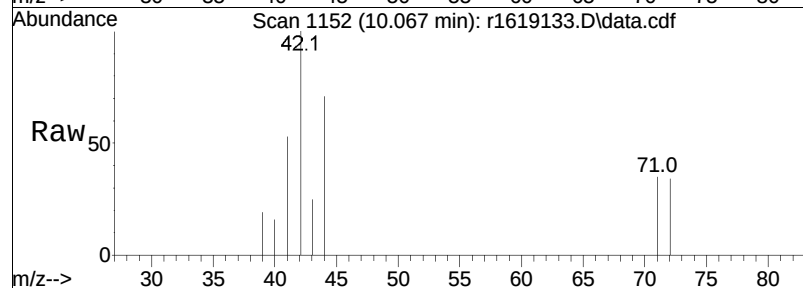
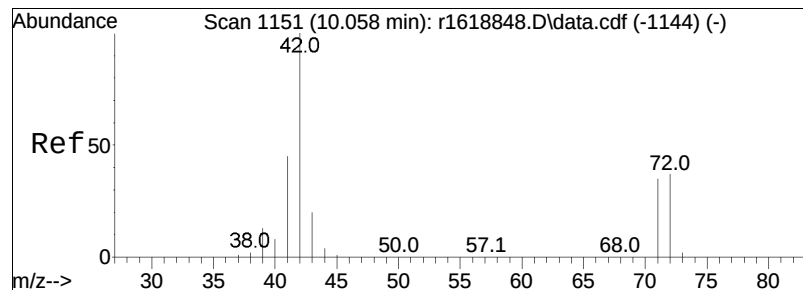




#39
 chloroform
 Concen: 9.97 ppbV
 RT: 9.575 min Scan# 1093
 Delta R.T. 0.017 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

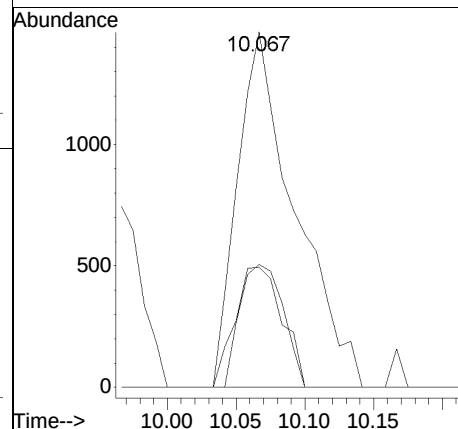
Tgt	Ion: 83	Resp:	223097
Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.5	77.3
47	23.9	20.1	30.1

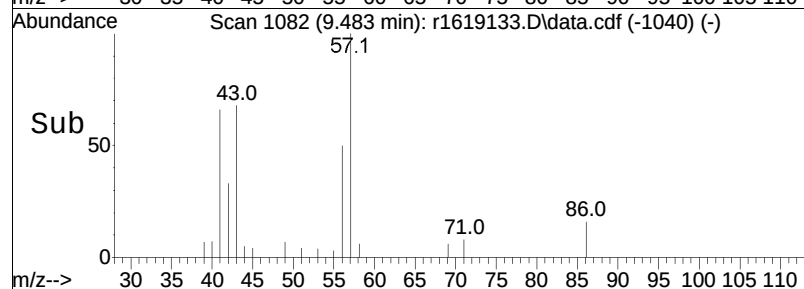
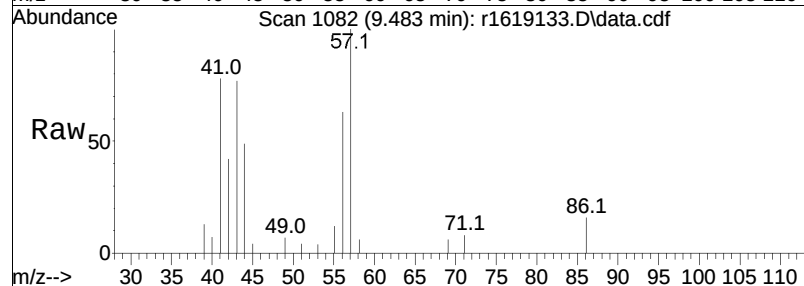
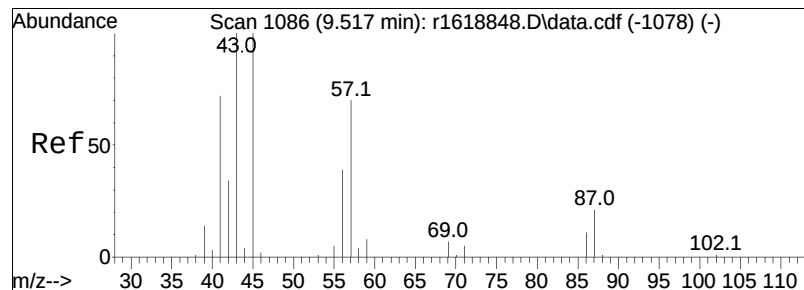




#40
Tetrahydrofuran
Concen: 0.19 ppbV
RT: 10.067 min Scan# 1152
Delta R.T. 0.058 min
Lab File: r1619133.D
Acq: 17 Sep 2020 1:27 AM

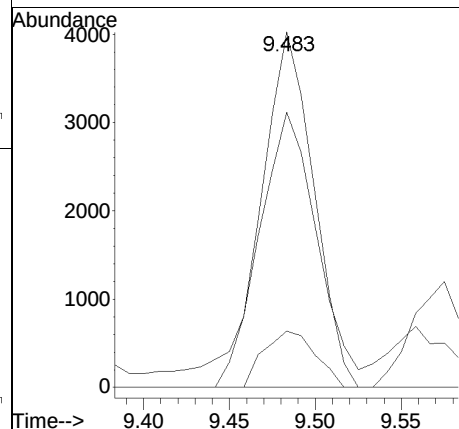
Tgt	Ion	Ratio	Lower	Upper
42	100			
71	34.6	28.2	42.2	
72	33.8	29.9	44.9	

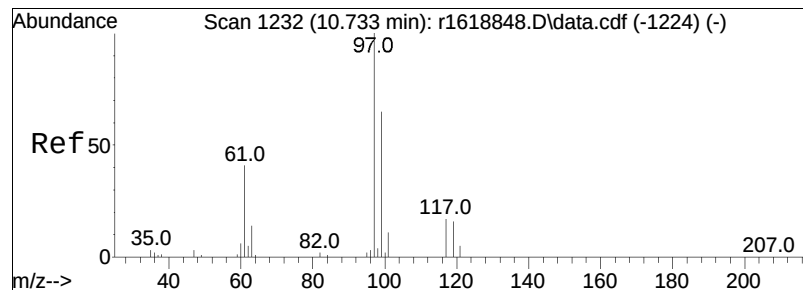




#44
hexane
Concen: 0.32 ppbV
RT: 9.483 min Scan# 1082
Delta R.T. 0.017 min
Lab File: r1619133.D
Acq: 17 Sep 2020 1:27 AM

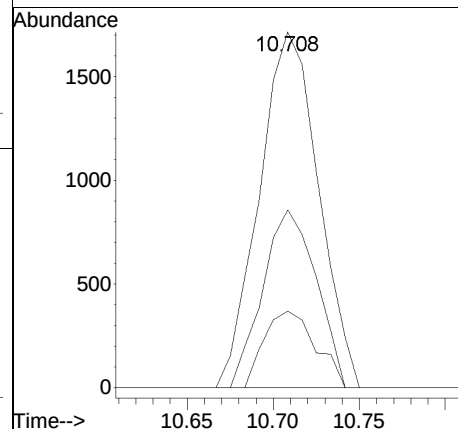
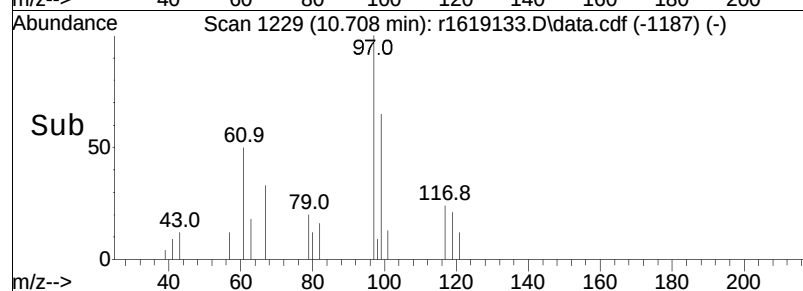
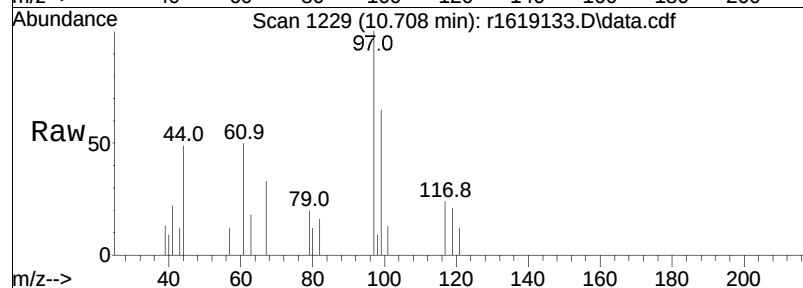
Tgt Ion:	57	Resp:	8450
Ion Ratio	100	Lower	Upper
43	77.4	114.4	171.6#
86	15.9	12.6	18.8

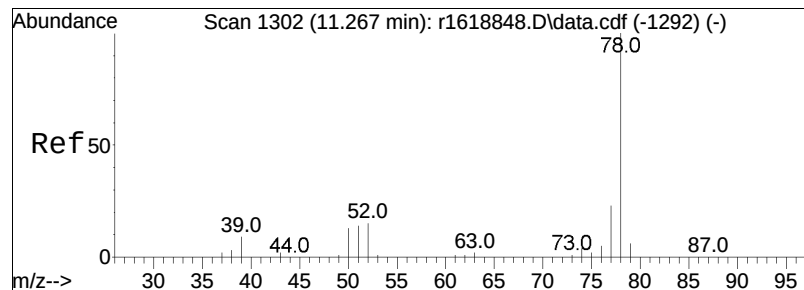




#48
 1,1,1-trichloroethane
 Concen: 0.18 ppbV
 RT: 10.708 min Scan# 1229
 Delta R.T. 0.017 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

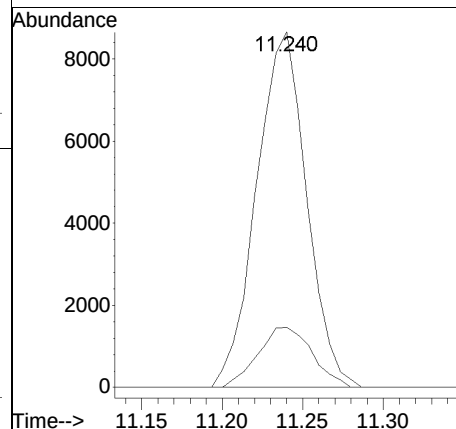
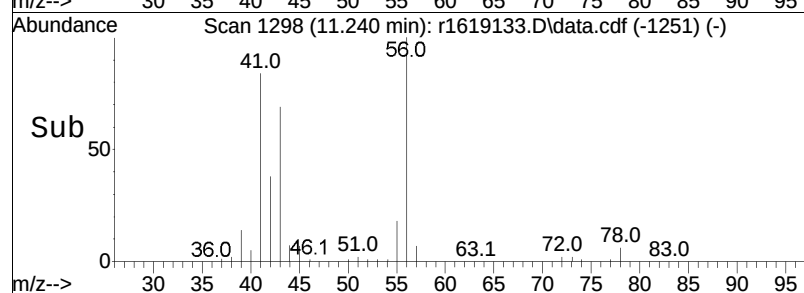
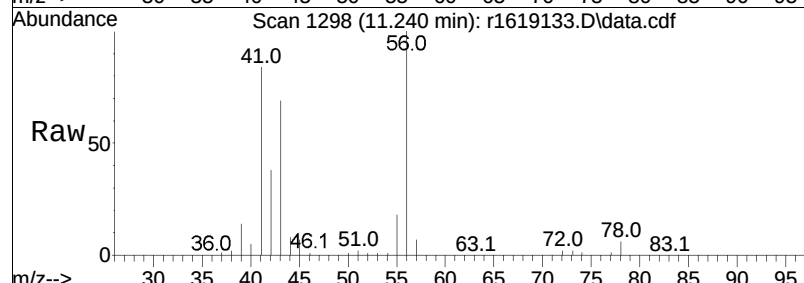
Tgt Ion:	97	Resp:	4102
Ion Ratio	Lower	Upper	
97	100		
61	50.0	32.5	48.7#
119	21.5	12.6	19.0#

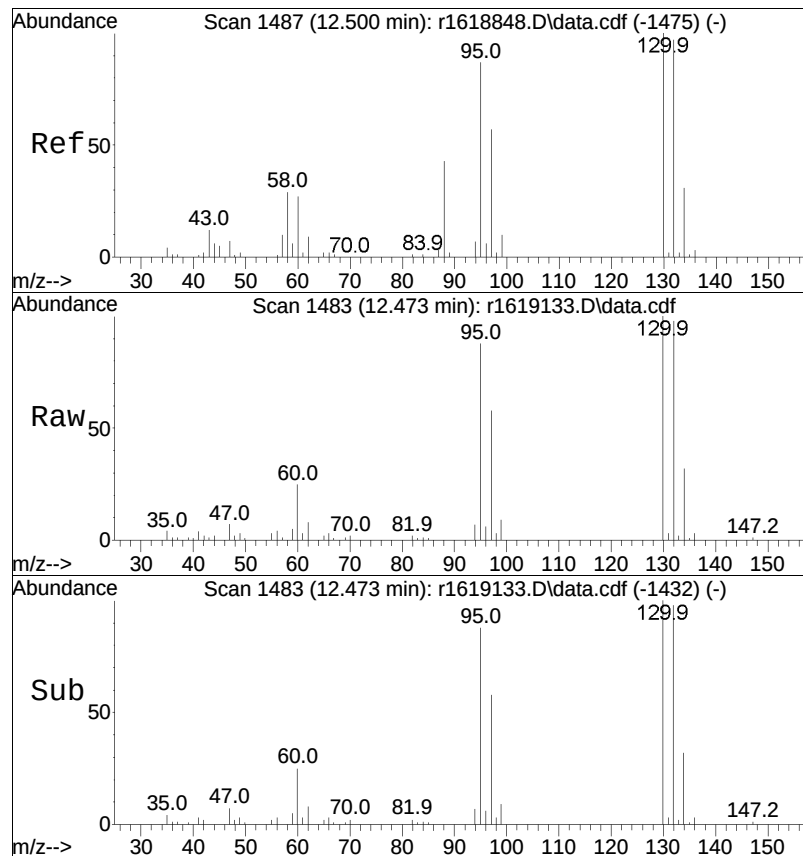




#50
benzene
Concen: 0.33 ppbV
RT: 11.240 min Scan# 1298
Delta R.T. 0.020 min
Lab File: r1619133.D
Acq: 17 Sep 2020 1:27 AM

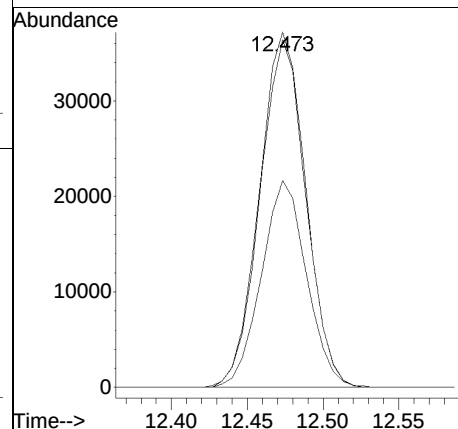
Tgt Ion	Ratio	Lower	Upper
78	100		
52	16.9	11.8	17.6

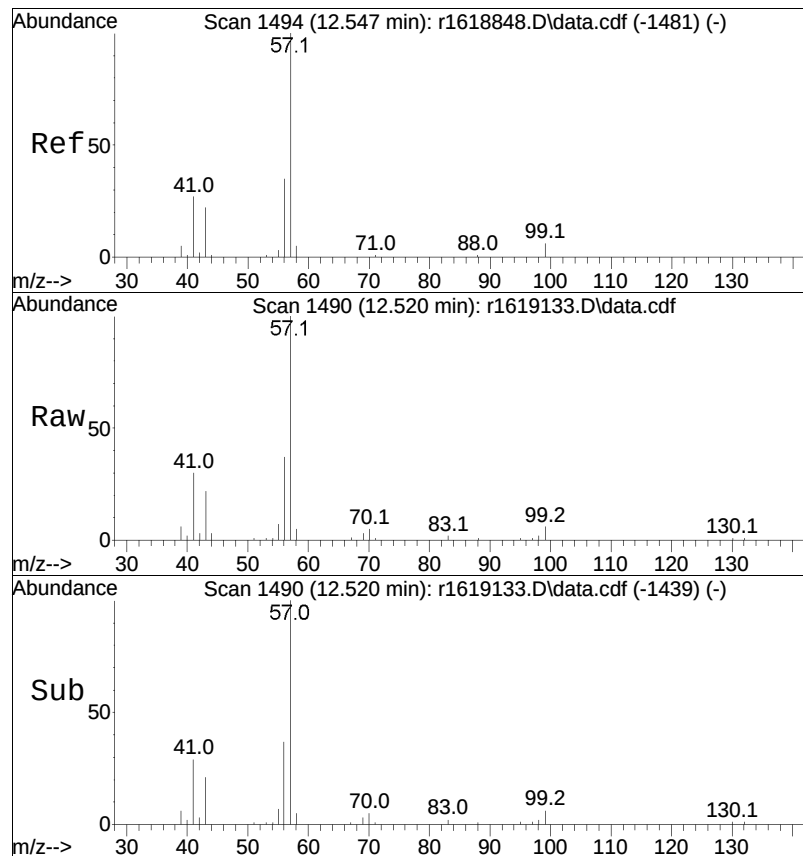




#59
 trichloroethene
 Concen: 3.24 ppbV
 RT: 12.473 min Scan# 1483
 Delta R.T. 0.013 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

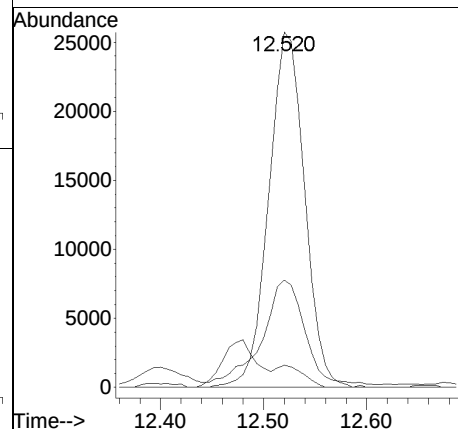
Tgt	Ion:130	Resp:	78974
Ion	Ratio	Lower	Upper
130	100		
132	97.8	77.4	116.2
97	58.2	45.5	68.3

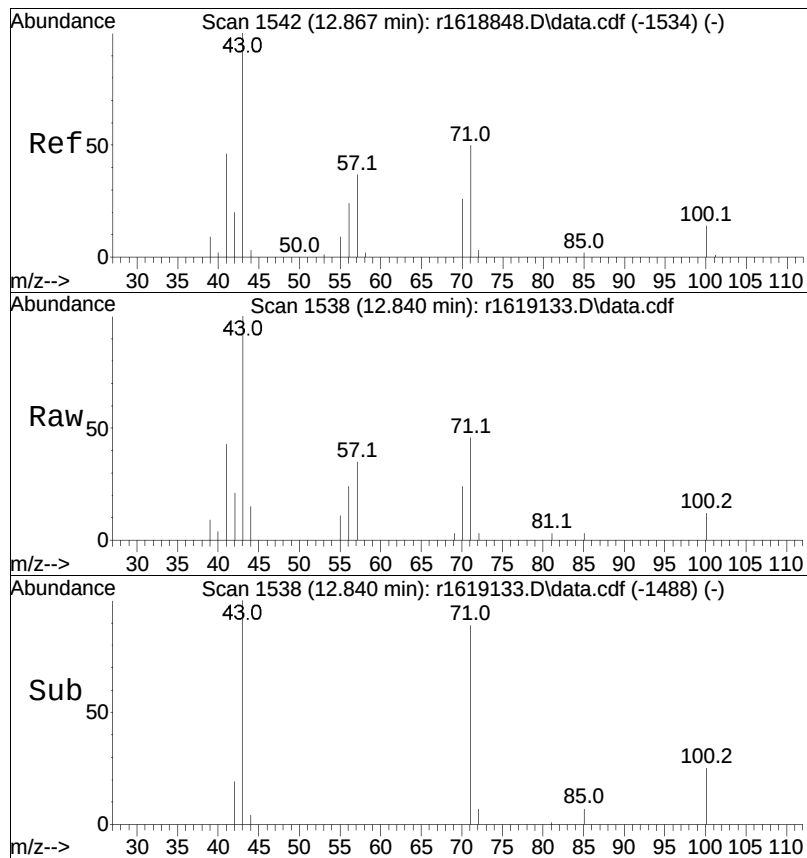




#60
 2,2,4-trimethylpentane
 Concen: 0.69 ppbV
 RT: 12.520 min Scan# 1490
 Delta R.T. 0.013 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

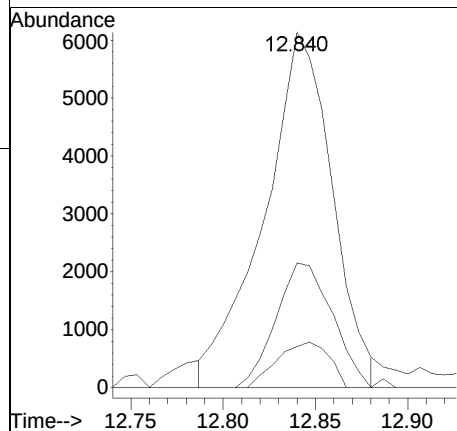
Tgt	Ion: 57	Resp:	62215
Ion	Ratio	Lower	Upper
57	100		
99	6.3	4.9	7.3
41	30.2	21.9	32.9

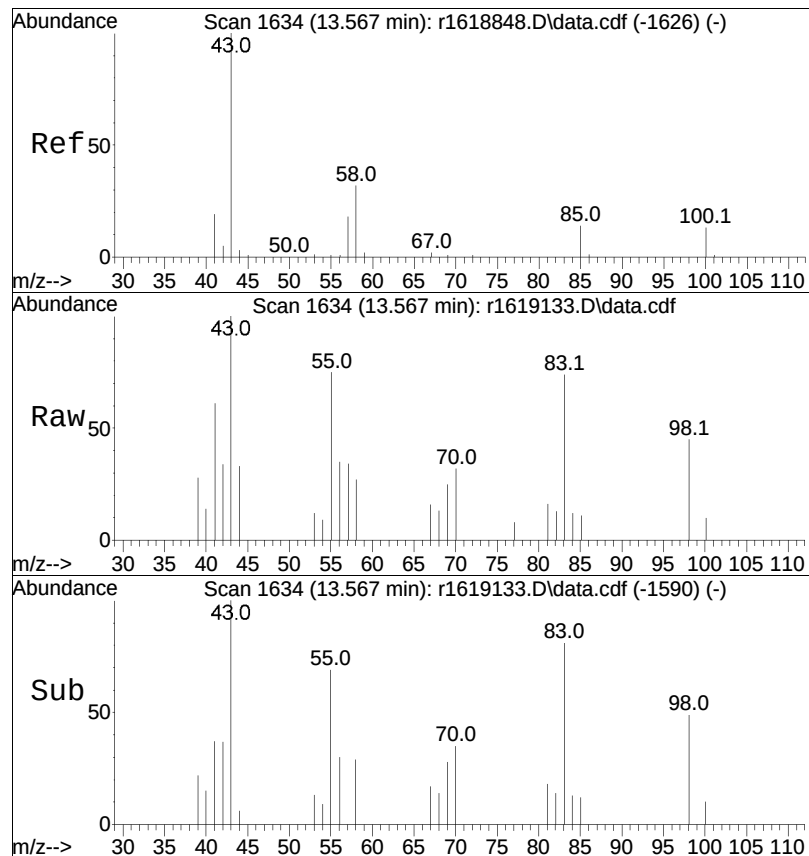




#62
heptane
Concen: 0.35 ppbV m
RT: 12.840 min Scan# 1538
Delta R.T. 0.007 min
Lab File: r1619133.D
Acq: 17 Sep 2020 1:27 AM

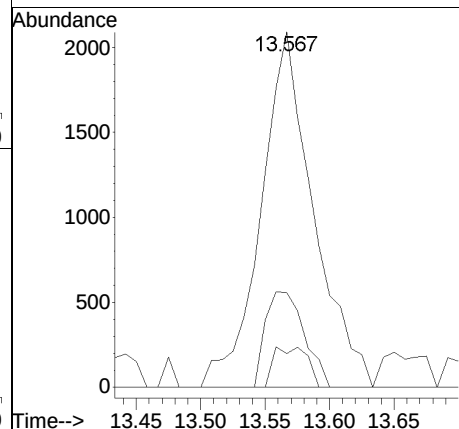
Tgt	Ion	Ratio	Lower	Upper
43	100			
57	35.0	29.9	44.9	
100	11.5	11.5	17.3	

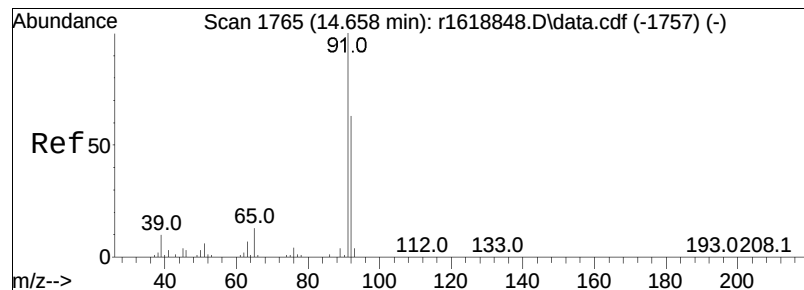




#64
 4-methyl-2-pentanone
 Concen: 0.12 ppbV
 RT: 13.567 min Scan# 1634
 Delta R.T. 0.033 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

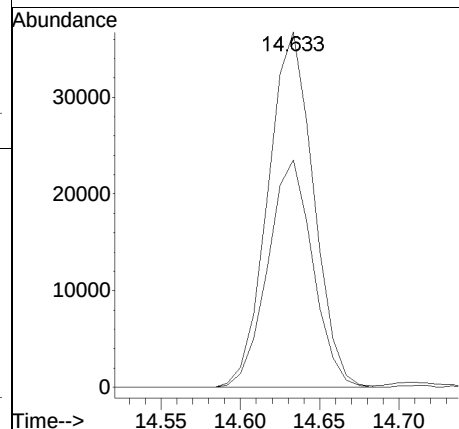
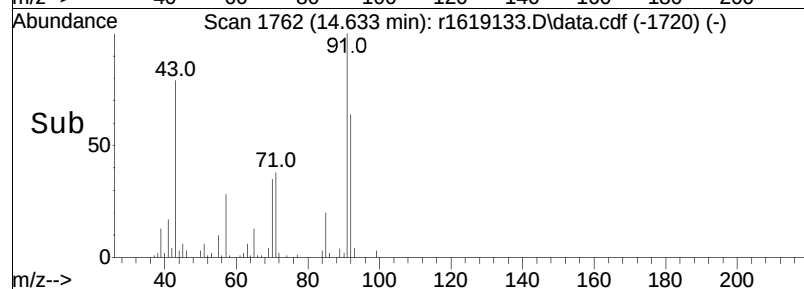
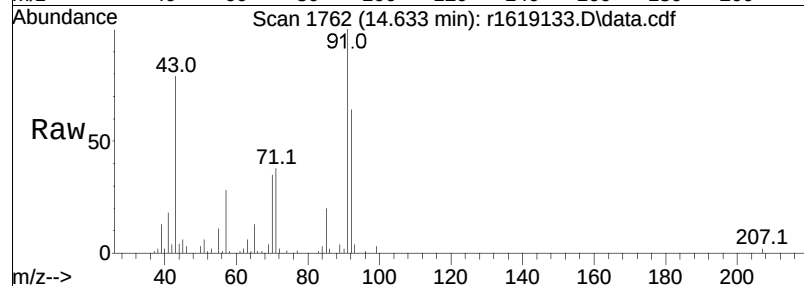
Tgt Ion:	43	58	100	Ratio	Lower	Upper
Resp:	5931					
Ion	100	26.7	9.5			
Ratio						
Lower		25.3	10.2			
Upper		37.9	15.2			

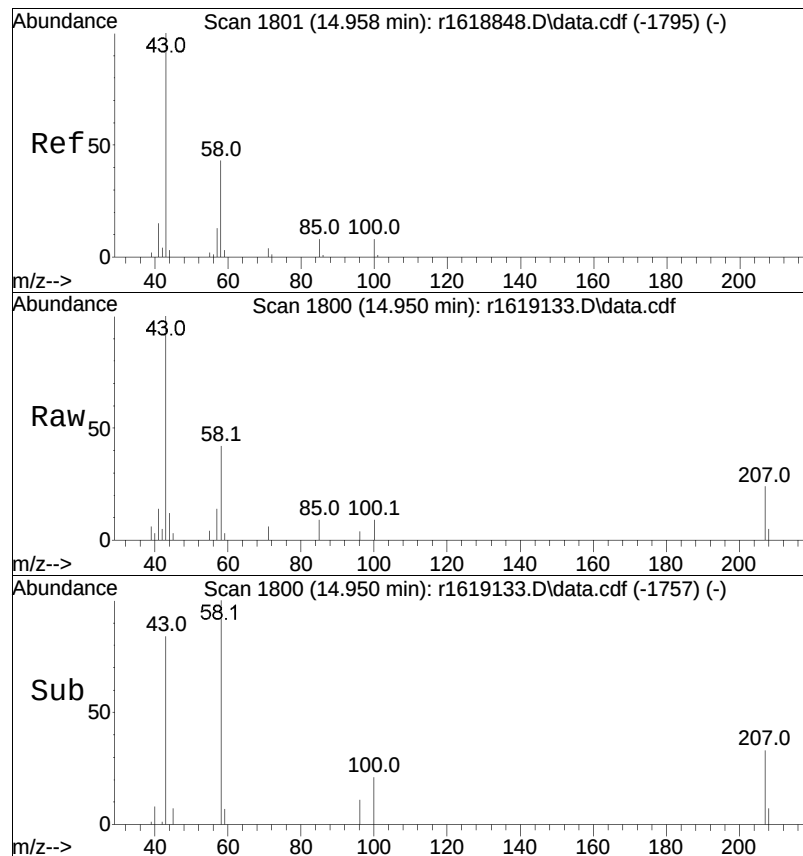




#68
toluene
Concen: 1.18 ppbV
RT: 14.633 min Scan# 1762
Delta R.T. 0.017 min
Lab File: r1619133.D
Acq: 17 Sep 2020 1:27 AM

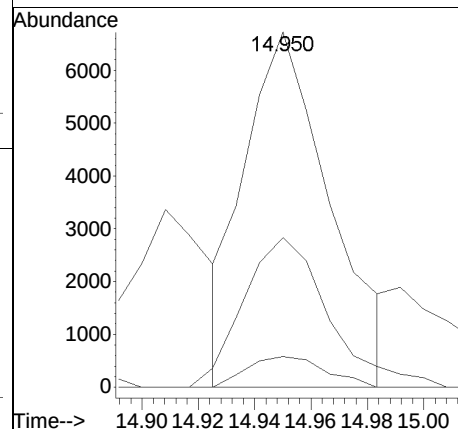
Tgt	Ion	Resp	Lower	Upper
91	100	73473		
92	64.0	50.6	75.8	

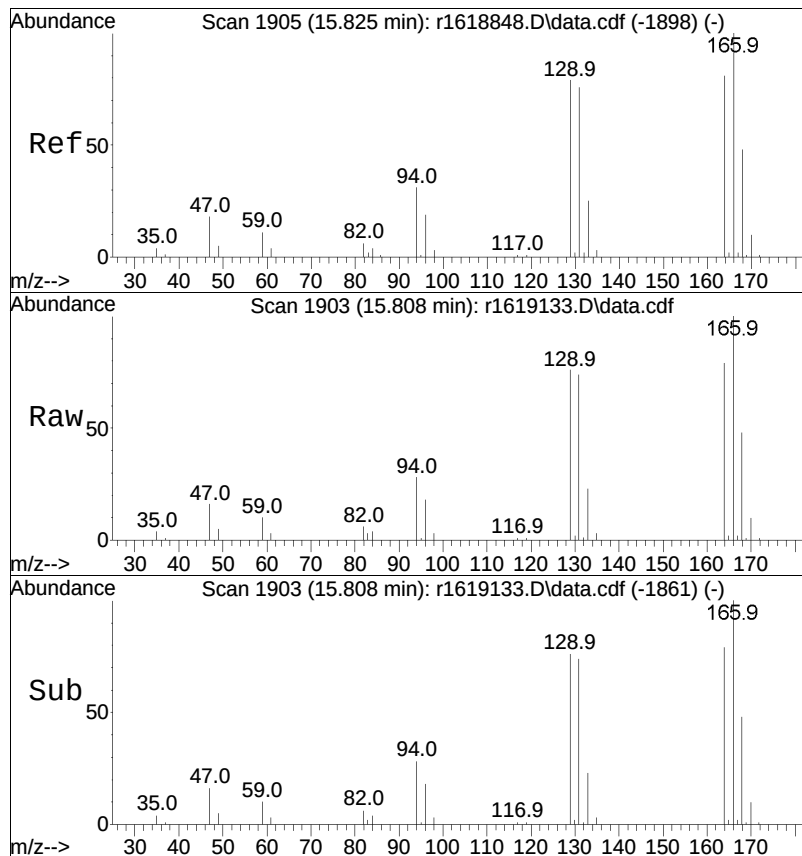




#72
 2-hexanone
 Concen: 0.32 ppbV m
 RT: 14.950 min Scan# 1800
 Delta R.T. 0.025 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

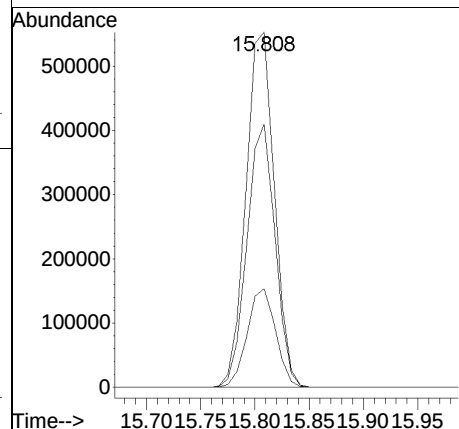
Tgt Ion	Ratio	Lower	Upper
43	100		
58	42.1	35.8	53.8
100	8.7	8.0	12.0

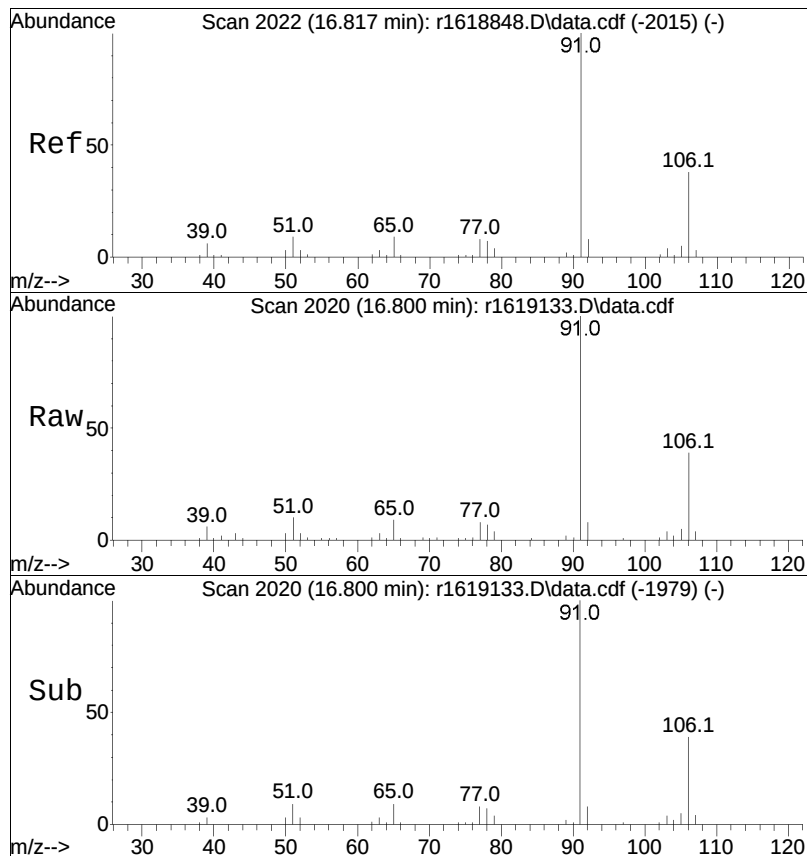




#78
 tetrachloroethene
 Concen: 37.41 ppbV
 RT: 15.808 min Scan# 1903
 Delta R.T. 0.017 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

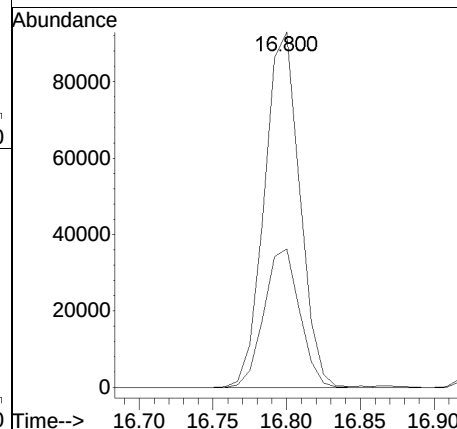
Tgt Ion:	166	Resp:	1009581
Ion Ratio	Lower	Upper	
166	100		
131	74.2	61.0	91.6
94	27.8	24.6	37.0

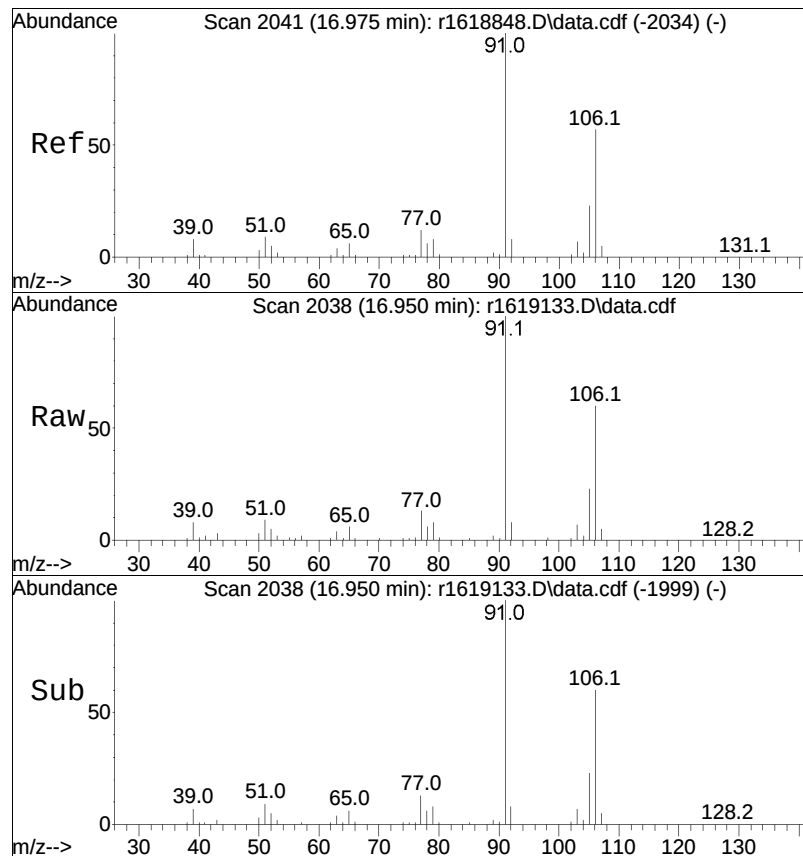




#81
ethylbenzene
Concen: 1.96 ppbV
RT: 16.800 min Scan# 2020
Delta R.T. 0.008 min
Lab File: r1619133.D
Acq: 17 Sep 2020 1:27 AM

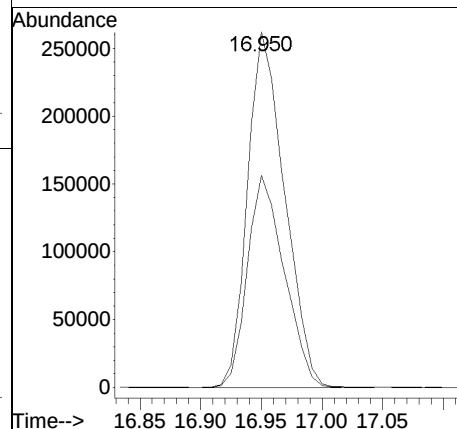
Tgt Ion	Ratio	Lower	Upper
91	100		
106	39.0	30.3	45.5

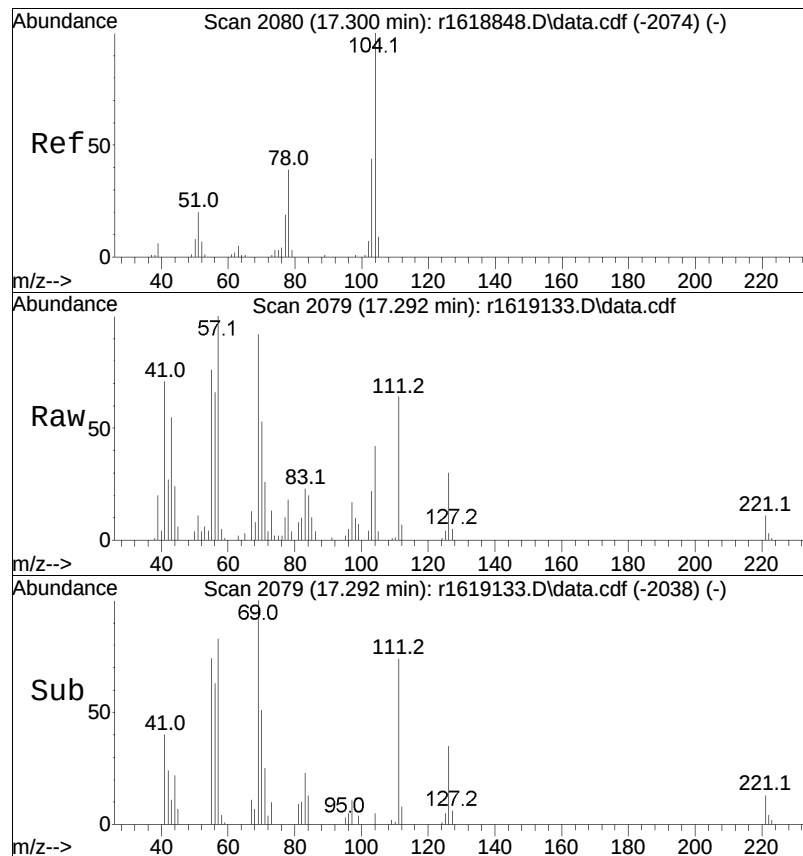




#83
 m+p-xylene
 Concen: 8.72 ppbV
 RT: 16.950 min Scan# 2038
 Delta R.T. -0.008 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

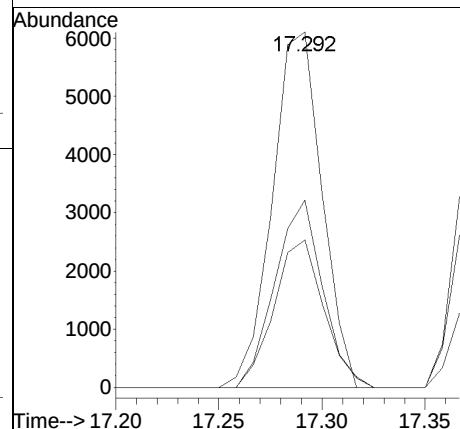
Tgt Ion	Ratio	Lower	Upper
91	100		
106	59.7	45.2	67.8

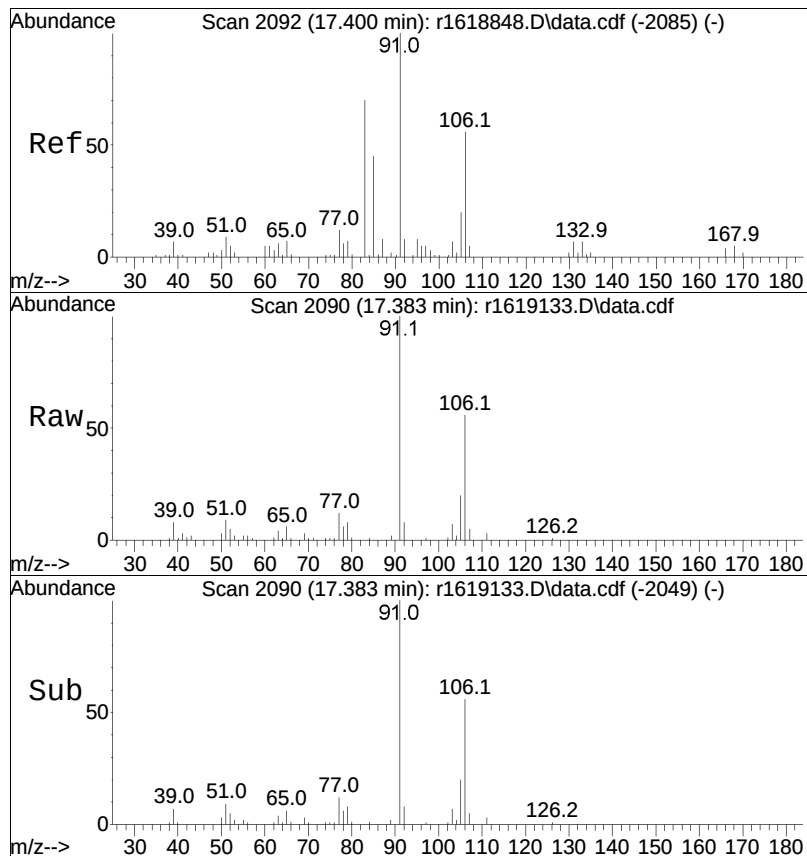




#85
styrene
Concen: 0.19 ppbV
RT: 17.292 min Scan# 2079
Delta R.T. 0.008 min
Lab File: r1619133.D
Acq: 17 Sep 2020 1:27 AM

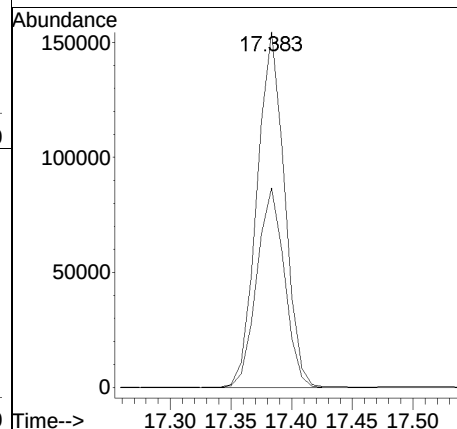
Tgt	Ion	Ratio	Lower	Upper
104	104	100		
103	103	52.7	35.3	52.9
78	78	41.5	31.5	47.3

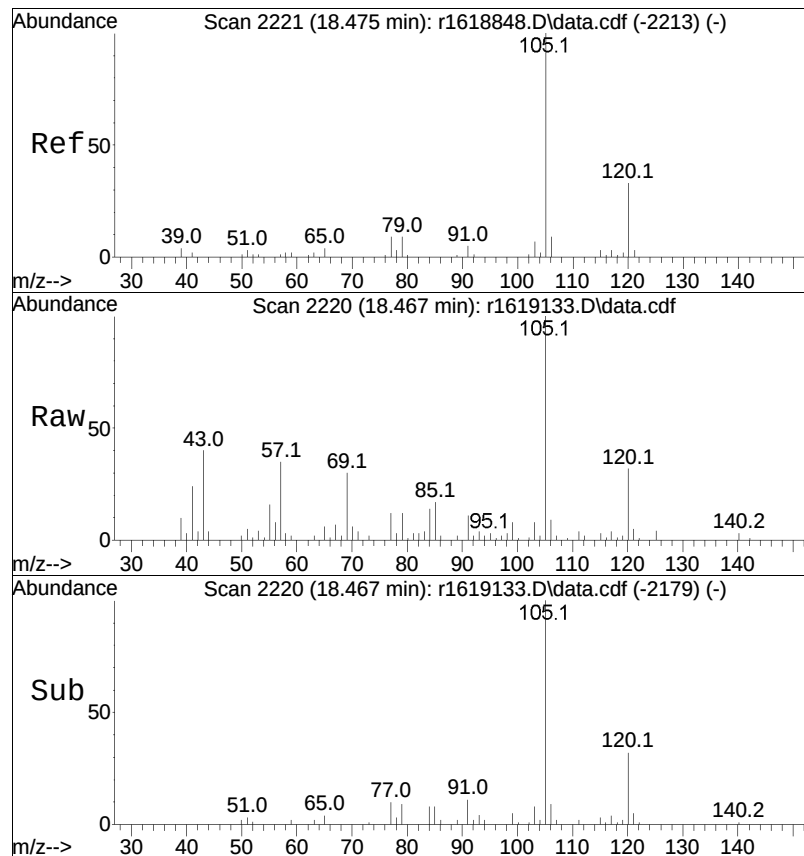




#87
 o-xylene
 Concen: 3.80 ppbV
 RT: 17.383 min Scan# 2090
 Delta R.T. 0.008 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

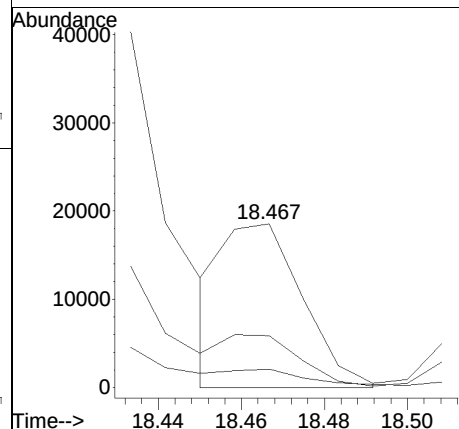
Tgt Ion:	91	106	Ratio	Lower	Upper
Resp:	244210				
	100	56.2		44.6	66.8

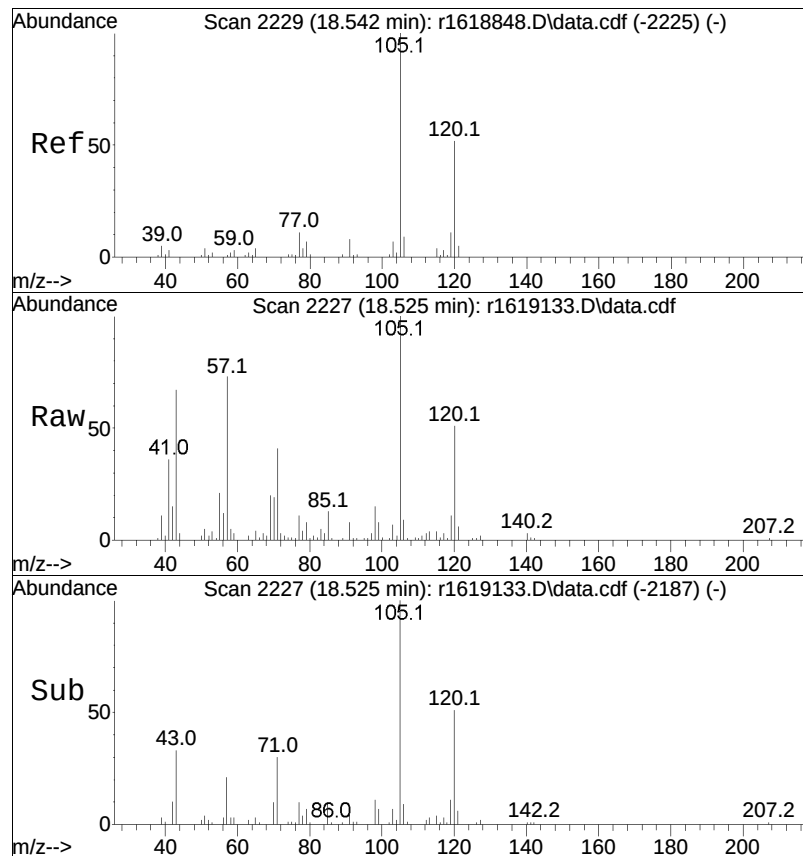




#96
 4-ethyl toluene
 Concen: 0.26 ppbV m
 RT: 18.467 min Scan# 2220
 Delta R.T. 0.008 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

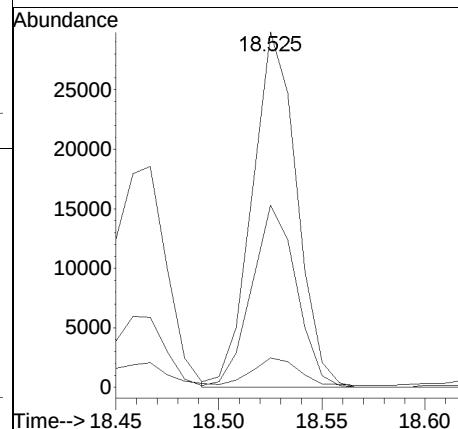
Tgt Ion:	105	Resp:	24692
Ion Ratio	Lower	Upper	
105	100		
120	31.6	26.4	39.6
91	11.2	7.2	10.8#

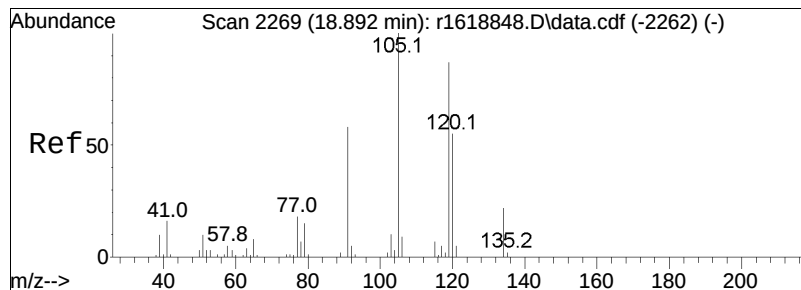




#97
 1,3,5-trimethylbenzene
 Concen: 0.55 ppbV
 RT: 18.525 min Scan# 2227
 Delta R.T. 0.000 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

Tgt	Ion	Ratio	Resp	Lower	Upper
105	105	100	44947		
120	120	51.3		41.2	61.8
91	91	8.3		6.7	10.1





#99

1,2,4-trimethylbenzene

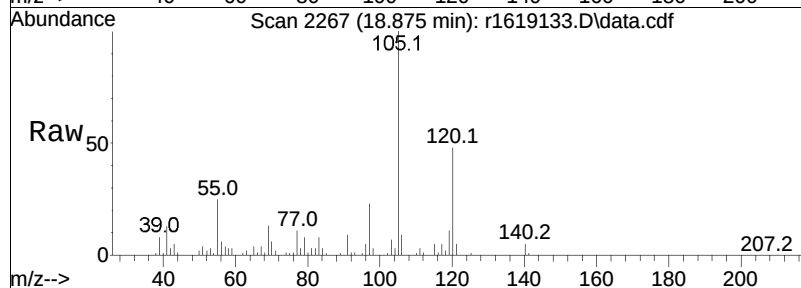
Concen: 2.21 ppbV

RT: 18.875 min Scan# 2267

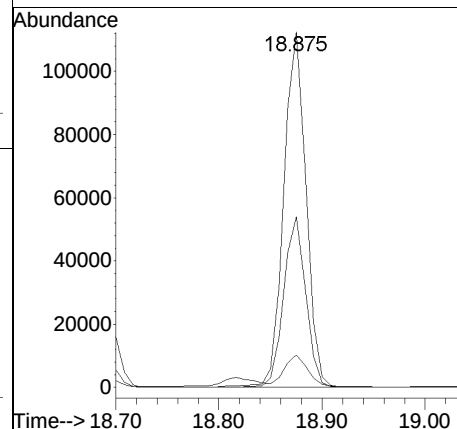
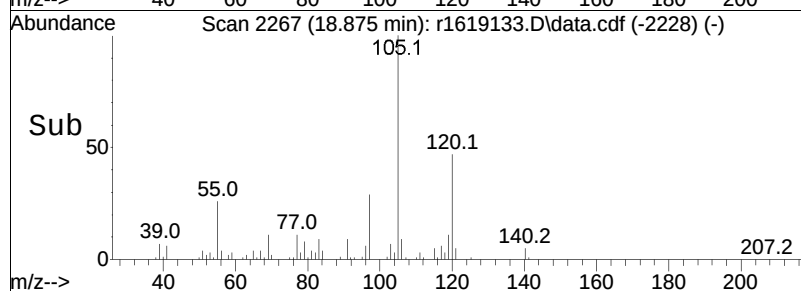
Delta R.T. 0.008 min

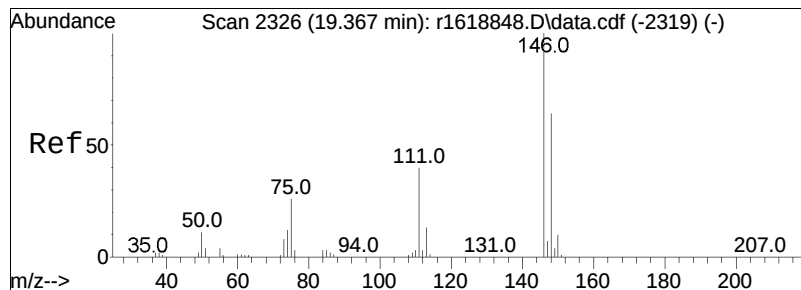
Lab File: r1619133.D

Acq: 17 Sep 2020 1:27 AM



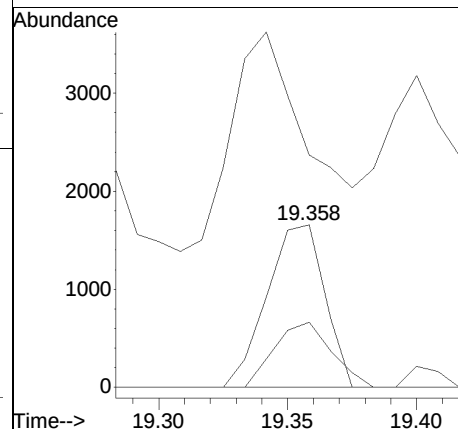
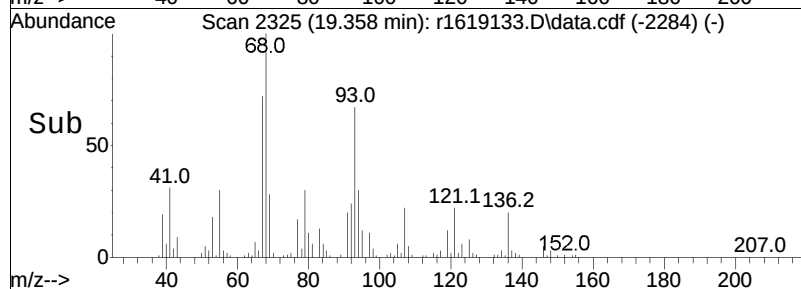
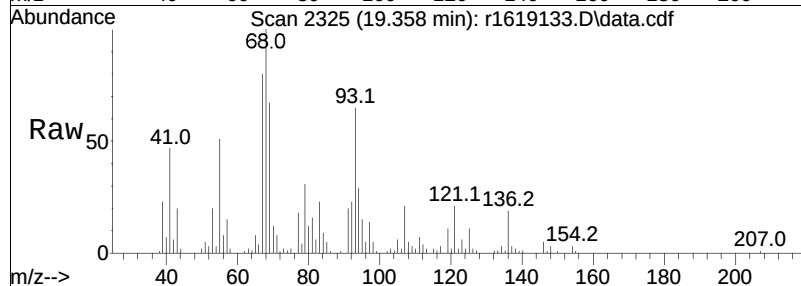
Tgt Ion:	105	Resp:	169033
Ion Ratio	Lower	Upper	
105	100		
120	48.0	44.0	66.0
91	9.2	46.2	69.4#





#107
 1,2-dichlorobenzene
 Concen: 0.05 ppbV
 RT: 19.358 min Scan# 2325
 Delta R.T. 0.008 min
 Lab File: r1619133.D
 Acq: 17 Sep 2020 1:27 AM

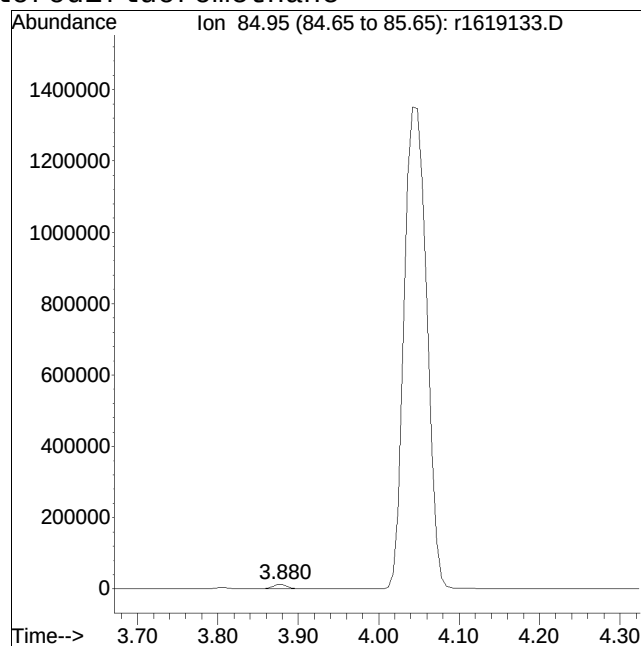
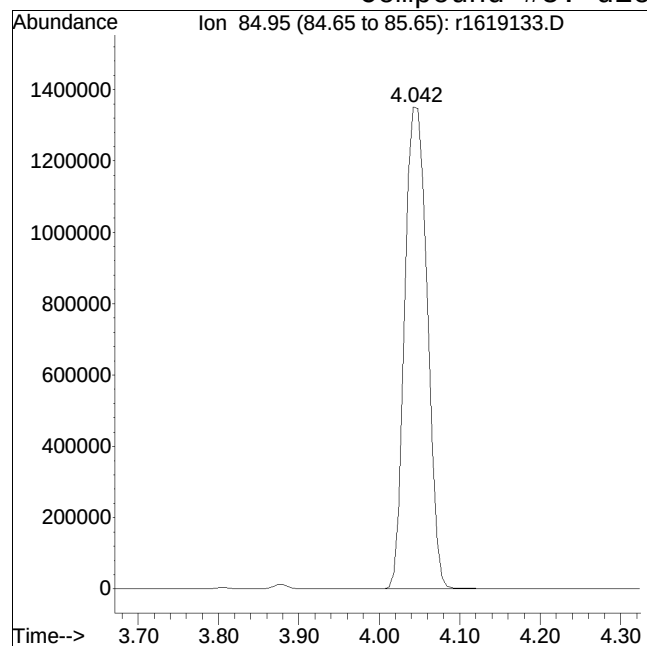
Tgt Ion	Ratio	Lower	Upper
146	100		
111	143.0	31.7	47.5#
75	40.1	20.5	30.7#



Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619133.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:1: 7 Instrument :
Sample : L2037647-08,3,250,250 Quant Date : 9/17/2020 5:43 am

Compound #5: dichlorodifluoromethane



Original Peak Response = 2641743

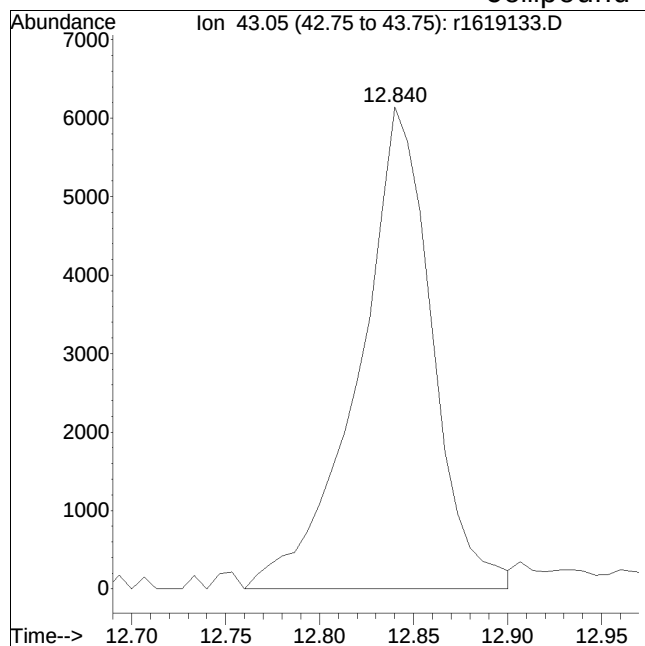
Manual Peak Response = 16795 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

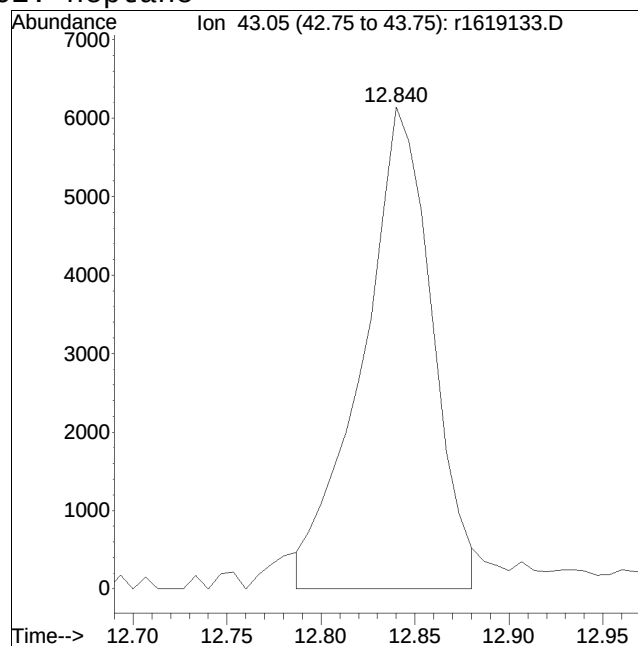
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619133.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:1: 7 Instrument :
Sample : L2037647-08,3,250,250 Quant Date : 9/17/2020 5:43 am

Compound #62: heptane



Original Peak Response = 16699

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

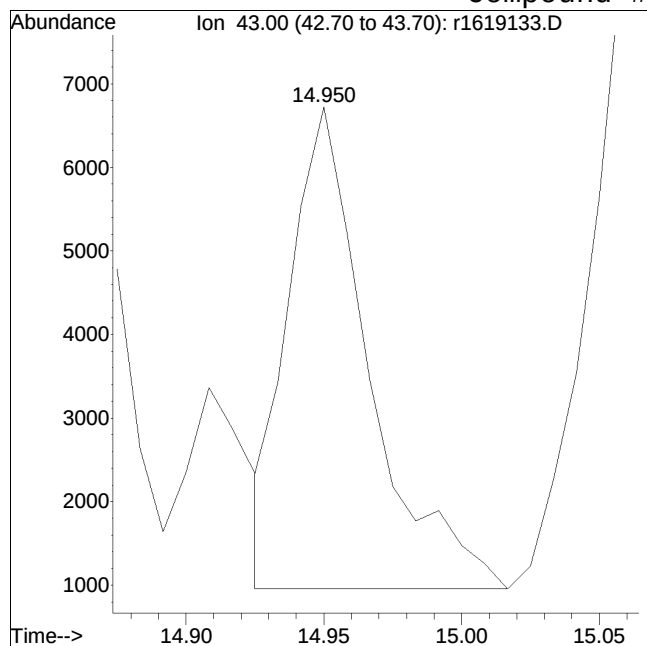


Manual Peak Response = 15792 M6

Manual Integration Report

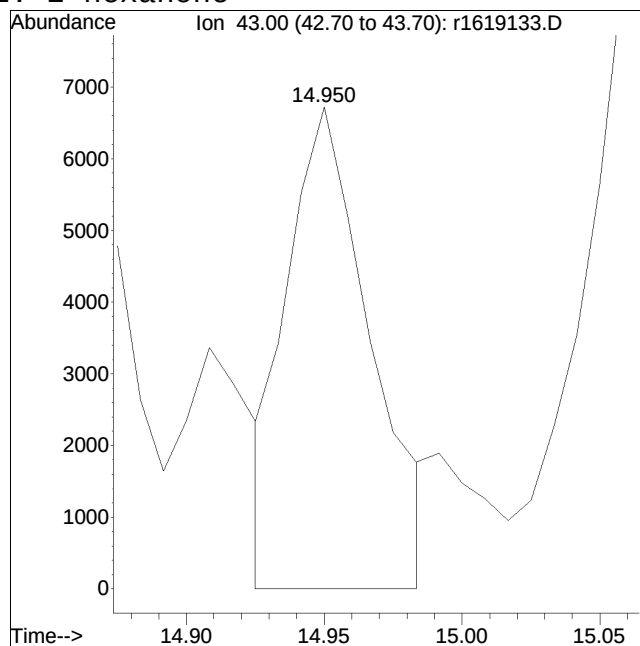
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619133.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:1: 7 Instrument :
Sample : L2037647-08,3,250,250 Quant Date : 9/17/2020 5:43 am

Compound #72: 2-hexanone



Original Peak Response = 11700

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

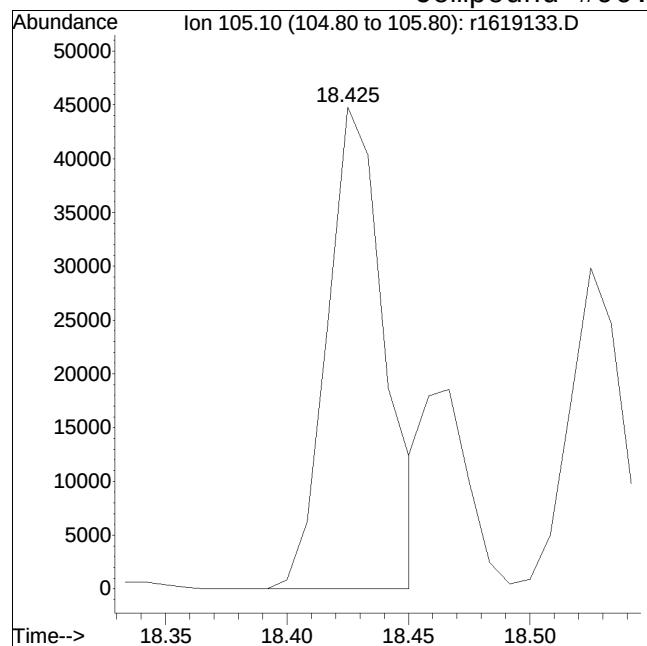


Manual Peak Response = 14161 M6

Manual Integration Report

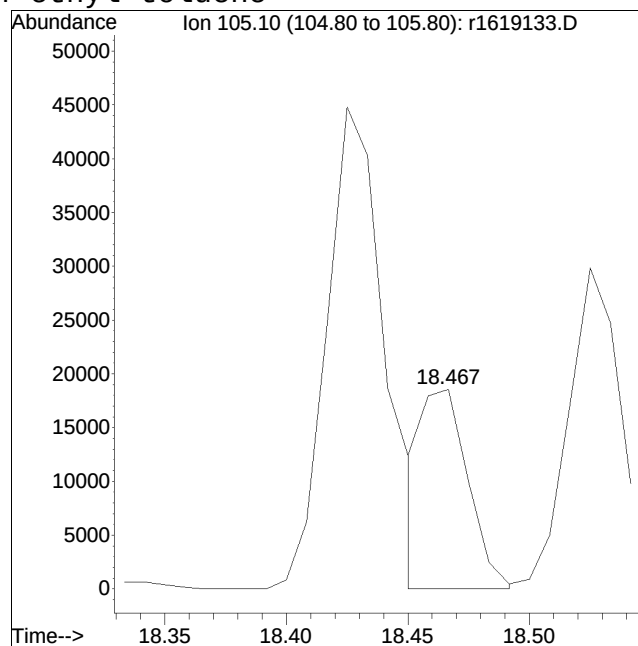
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619133.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:1: 7 Instrument :
Sample : L2037647-08,3,250,250 Quant Date : 9/17/2020 5:43 am

Compound #96: 4-ethyl toluene



Original Peak Response = 73863

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 24692 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619134.D
 Acq On : 17 Sep 2020 2:05 AM
 Operator : AIRLAB16:TS
 Sample : L2037647-09D,3,75,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:43:07 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.408	49	231967	10.000	ppbV	0.02
Standard Area = 289019			Recovery =	80.26%		
43) 1,4-difluorobenzene	11.680	114	775152	10.000	ppbV	0.01
Standard Area = 862875			Recovery =	89.83%		
67) chlorobenzene-D5	16.408	54	103277	10.000	ppbV	0.00
Standard Area = 122360			Recovery =	84.40%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.880	85	5527	0.251	ppbV	98
6) chloromethane	0.000		0	N.D.	d	
7) Freon-114	0.000		0	N.D.	d	
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.468	54	14183	1.293	ppbV	98
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.206	31	1738	0.209	ppbV	86
17) vinyl bromide	0.000		0	N.D.		
19) acetone	0.000		0	N.D.	d	
21) trichlorofluoromethane	5.930	101	4252M6	0.238	ppbV	
22) isopropyl alcohol	0.000		0	N.D.	d	
26) 1,1-dichloroethene	6.640		0	N.D.		
27) tertiary butyl alcohol	6.868		0	N.D.		
28) methylene chloride	6.862		0	N.D.		
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	7.156	76	55305	1.303	ppbV #	81
31) Freon 113	7.198		0	N.D.		
32) trans-1,2-dichloroethene	7.925		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	8.758	43	23865	0.752	ppbV	100
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.583	83	3521	0.157	ppbV	95
40) Tetrahydrofuran	10.083		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619134.D
 Acq On : 17 Sep 2020 2:05 AM
 Operator : AIRLAB16:TS
 Sample : L2037647-09D, 3, 75, 250
 Misc : WG1410723, ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:43:07 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
44) hexane	9.492	57	366634	13.884	ppbV	#	52
48) 1,1,1-trichloroethane	0.000		0	N.D.			
50) benzene	11.240	78	67124M6	1.176	ppbV		
52) carbon tetrachloride	0.000		0	N.D.			
53) cyclohexane	11.553	56	4655	0.163	ppbV		96
56) 1,2-dichloropropane	12.067		0	N.D.			
57) bromodichloromethane	0.000		0	N.D.	d		
58) 1,4-dioxane	12.527		0	N.D.			
59) trichloroethene	0.000		0	N.D.			
60) 2,2,4-trimethylpentane	0.000		0	N.D.	d		
62) heptane	12.847	43	365093	8.110	ppbV		98
63) cis-1,3-dichloropropene	0.000		0	N.D.			
64) 4-methyl-2-pentanone	13.550		0	N.D.			
65) trans-1,3-dichloropropene	0.000		0	N.D.			
66) 1,1,2-trichloroethane	14.275		0	N.D.			
68) toluene	14.633	91	53735	0.840	ppbV		99
72) 2-hexanone	0.000		0	N.D.	d		
74) dibromochloromethane	0.000		0	N.D.			
75) 1,2-dibromoethane	0.000		0	N.D.			
78) tetrachloroethene	15.808	166	28930	1.047	ppbV		94
80) chlorobenzene	16.467	112	4125	0.079	ppbV	#	68
81) ethylbenzene	16.800	91	45220	0.558	ppbV		99
83) m+p-xylene	16.950	91	137877	2.109	ppbV		96
84) bromoform	0.000		0	N.D.			
85) styrene	17.292	104	3872	0.070	ppbV		98
86) 1,1,2,2-tetrachloroethane	17.367		0	N.D.			
87) o-xylene	17.383	91	71846	1.093	ppbV		97
96) 4-ethyl toluene	0.000		0	N.D.	d		
97) 1,3,5-trimethylbenzene	18.525	105	14179M6	0.170	ppbV		
99) 1,2,4-trimethylbenzene	18.875	105	51275	0.655	ppbV	#	61
101) Benzyl Chloride	0.000		0	N.D.			
102) 1,3-dichlorobenzene	19.067		0	N.D.			
103) 1,4-dichlorobenzene	19.067		0	N.D.			
107) 1,2-dichlorobenzene	19.350		0	N.D.			
115) 1,2,4-trichlorobenzene	0.000		0	N.D.			
119) hexachlorobutadiene	0.000		0	N.D.			

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619134.D
 Acq On : 17 Sep 2020 2:05 AM
 Operator : AIRLAB16:TS
 Sample : L2037647-09D, 3, 75, 250
 Misc : WG1410723, ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:43:07 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : T015-NY - .s\Data\Airlab16\2020\09\200916T\r1619115.D

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\

Data File : r1619134.D

Acq On : 17 Sep 2020 2:05 AM

Operator : AIRLAB16:TS

Sample : L2037647-09D, 3, 75, 250

Misc : WG1410723, ICAL17102

ALS Vial : 0 Sample Multiplier: 1

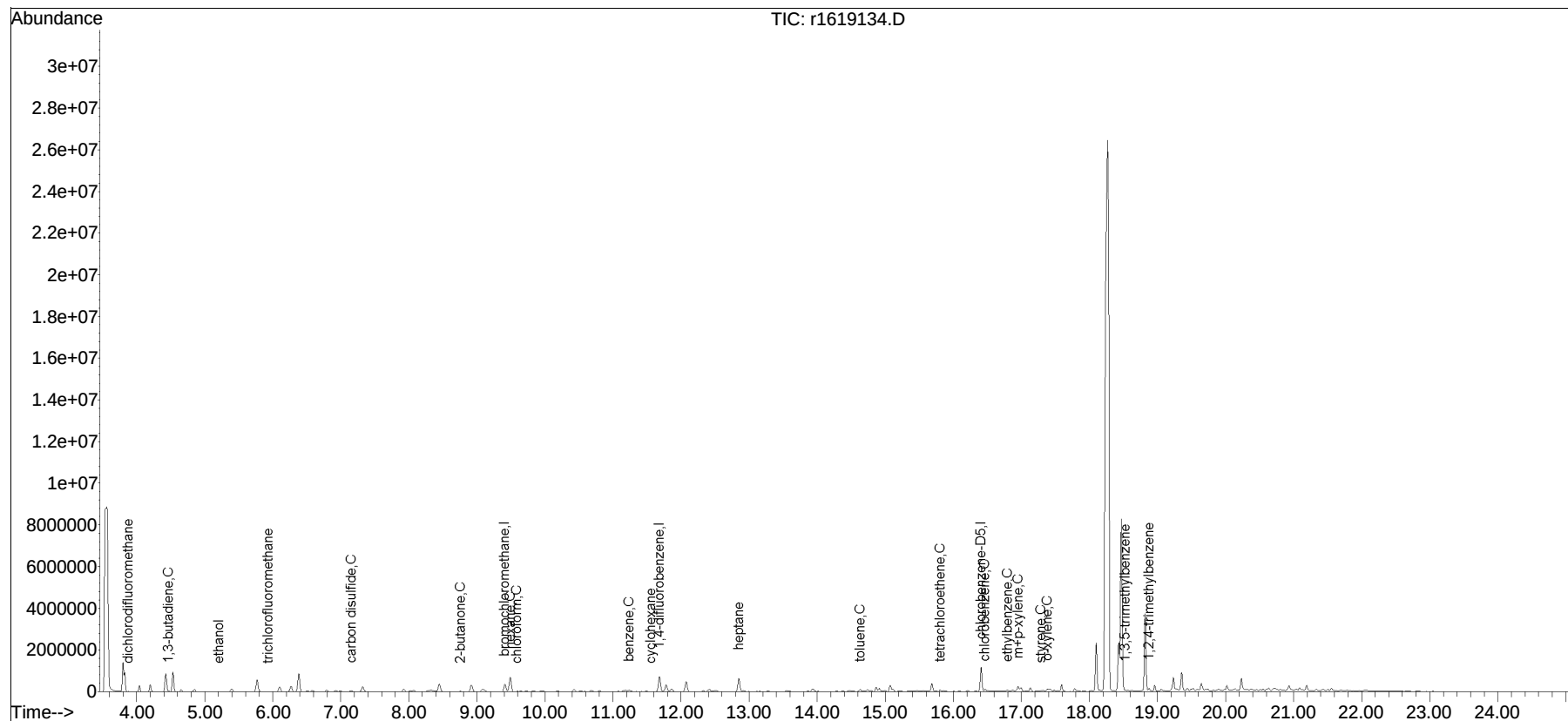
Quant Time: Sep 17 08:43:07 2020

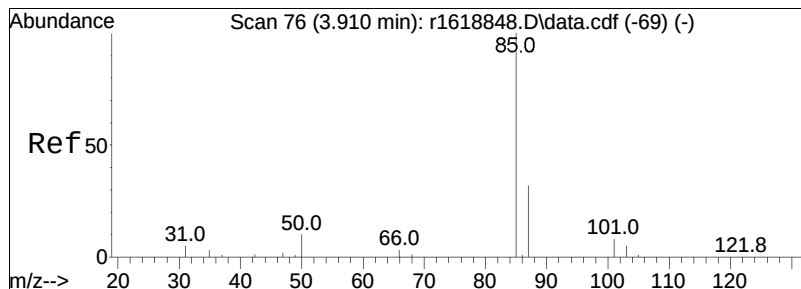
Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M

Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

QLast Update : Wed Sep 16 13:18:40 2020

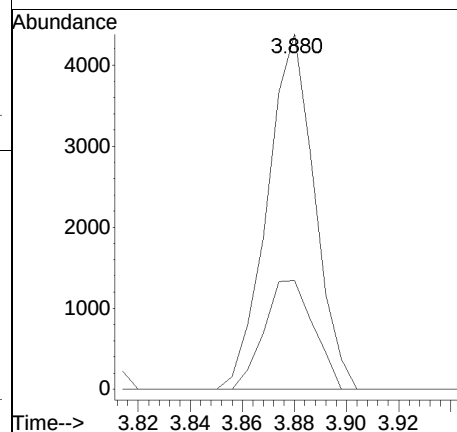
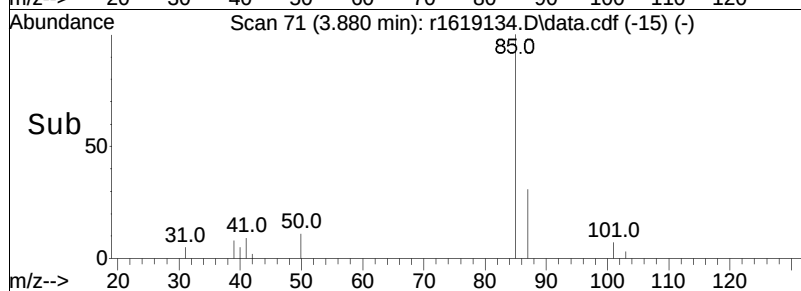
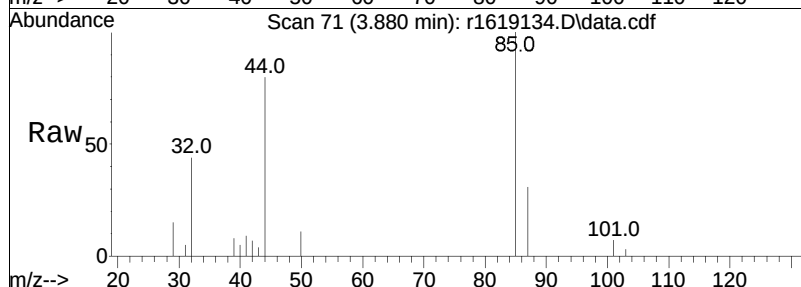
Response via : Initial Calibration

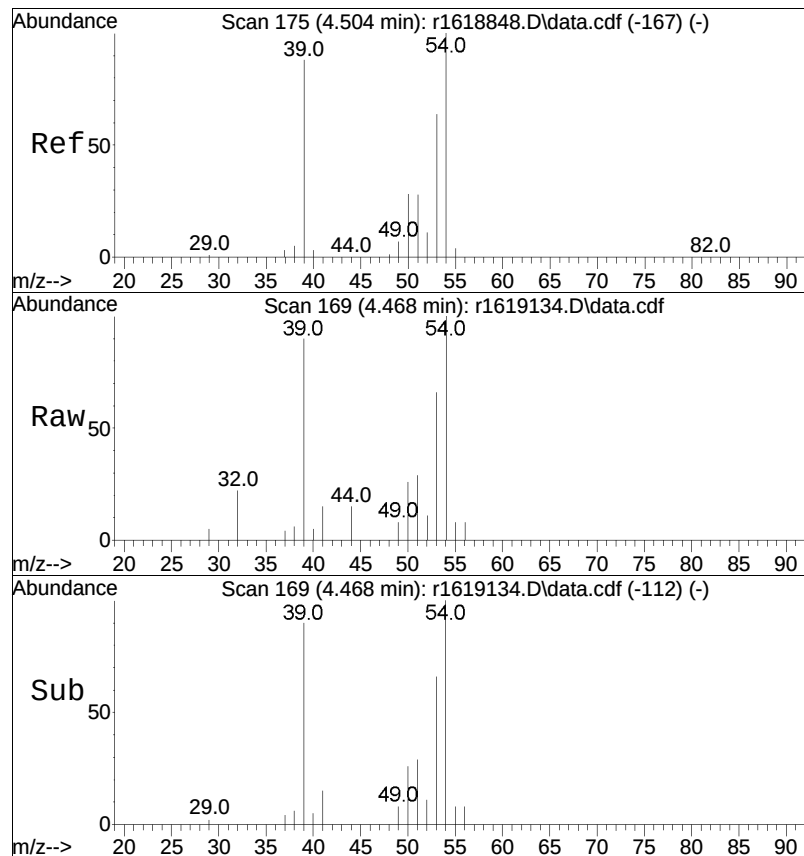




#5
dichlorodifluoromethane
Concen: 0.25 ppbV
RT: 3.880 min Scan# 71
Delta R.T. 0.006 min
Lab File: r1619134.D
Acq: 17 Sep 2020 2:05 AM

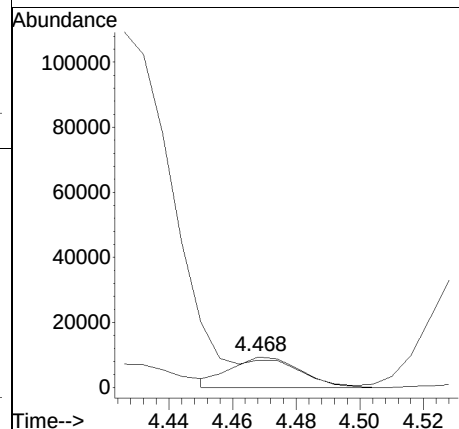
Tgt Ion: 85 Resp: 5527
Ion Ratio Lower Upper
85 100
87 30.6 25.4 38.2

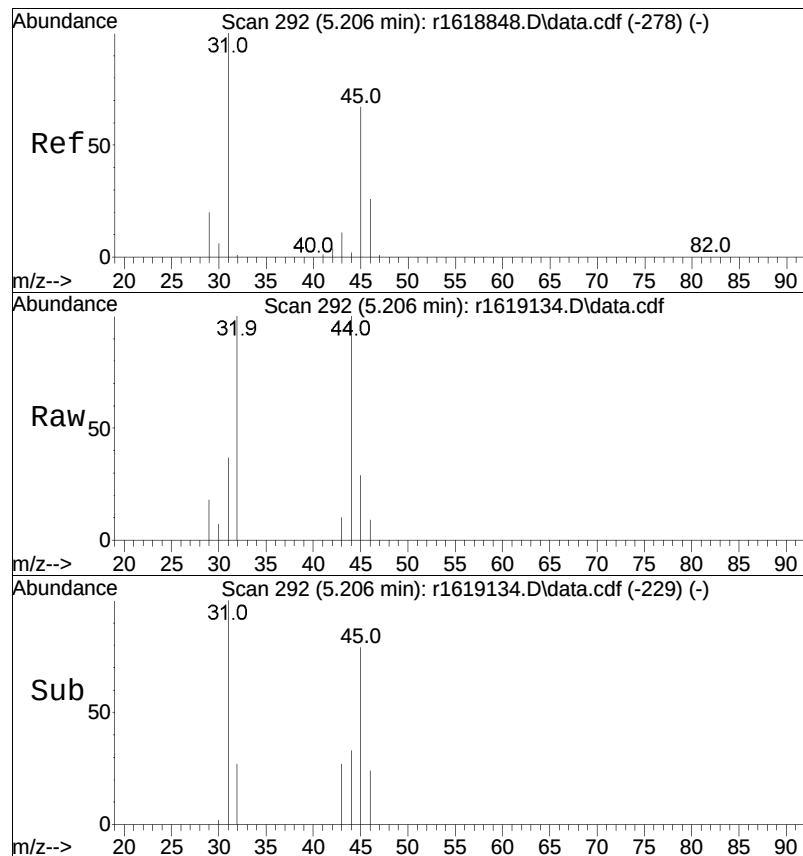




#10
 1,3-butadiene
 Concen: 1.29 ppbV
 RT: 4.468 min Scan# 169
 Delta R.T. 0.012 min
 Lab File: r1619134.D
 Acq: 17 Sep 2020 2:05 AM

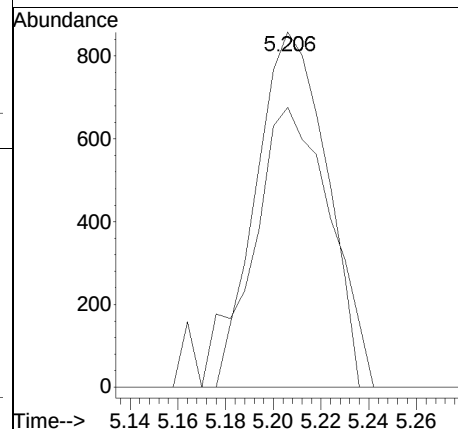
Tgt Ion	Ratio	Lower	Upper
54	100		
39	90.1	70.9	106.3

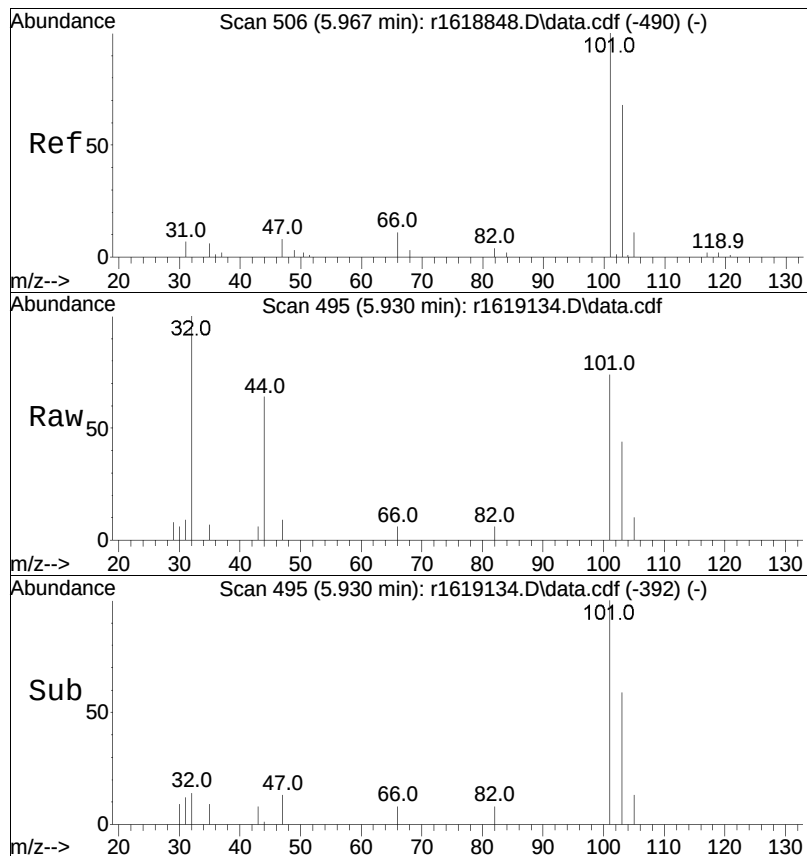




#15
ethanol
Concen: 0.21 ppbV
RT: 5.206 min Scan# 292
Delta R.T. 0.048 min
Lab File: r1619134.D
Acq: 17 Sep 2020 2:05 AM

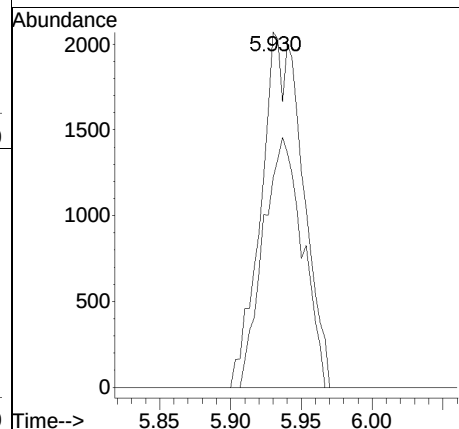
Tgt Ion:	31	Resp:	1738
Ion Ratio	Lower	Upper	
31	100		
45	78.8	54.0	81.0

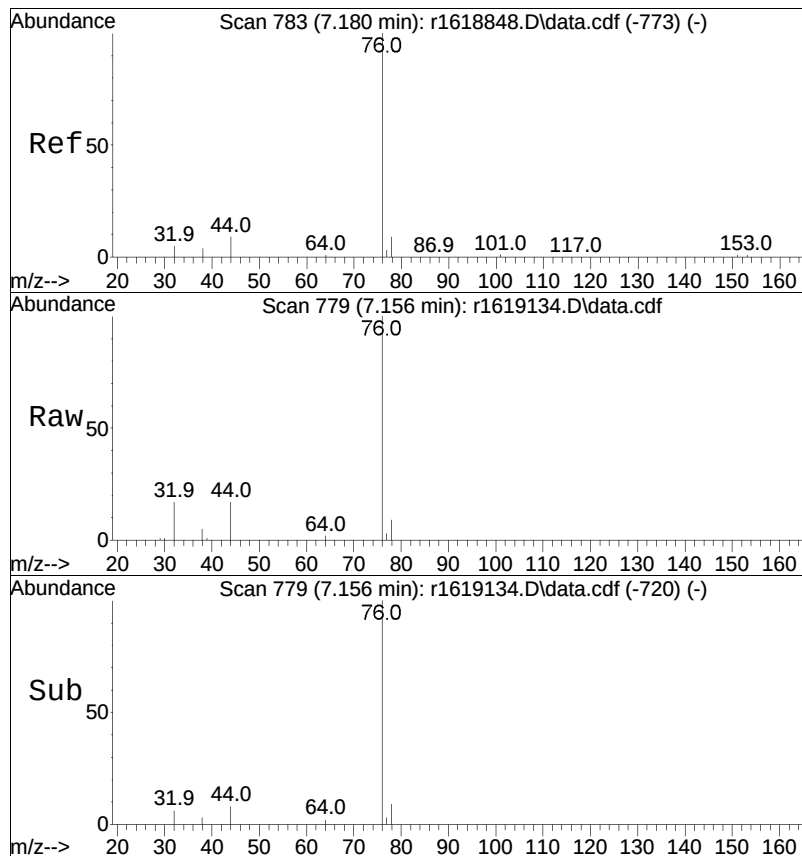




#21
 trichlorofluoromethane
 Concen: 0.24 ppbV m
 RT: 5.930 min Scan# 495
 Delta R.T. 0.013 min
 Lab File: r1619134.D
 Acq: 17 Sep 2020 2:05 AM

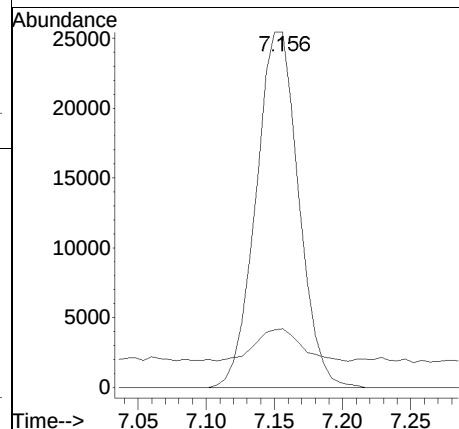
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	58.9	54.6	82.0	

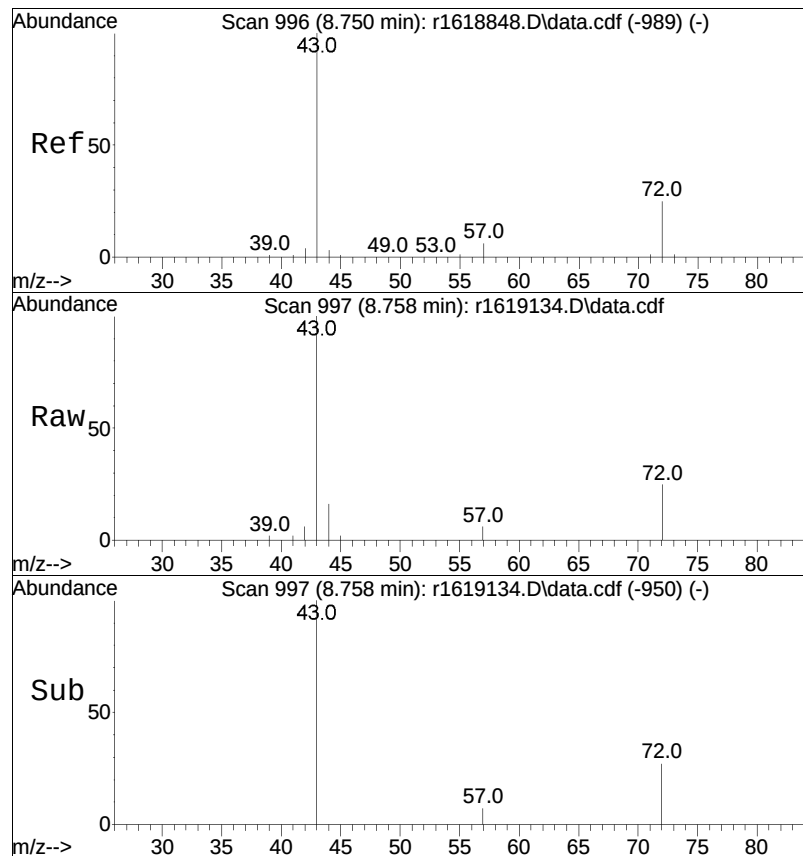




#30
 carbon disulfide
 Concen: 1.30 ppbV
 RT: 7.156 min Scan# 779
 Delta R.T. 0.024 min
 Lab File: r1619134.D
 Acq: 17 Sep 2020 2:05 AM

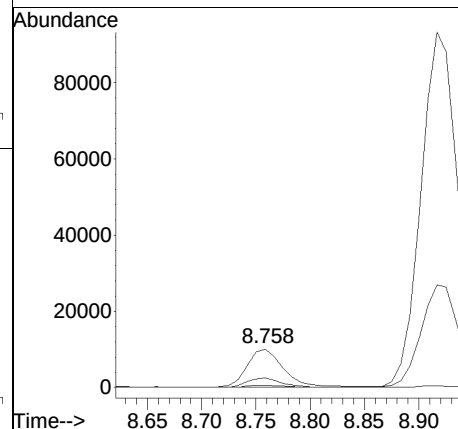
Tgt Ion	Ratio	Lower	Upper
76	100		
44	16.5	7.7	11.5#

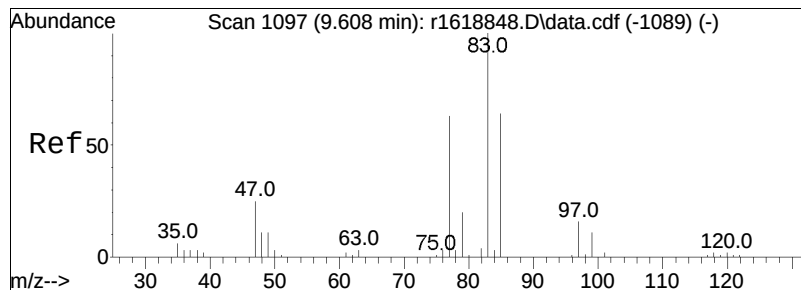




#36
 2-butanone
 Concen: 0.75 ppbV
 RT: 8.758 min Scan# 997
 Delta R.T. 0.058 min
 Lab File: r1619134.D
 Acq: 17 Sep 2020 2:05 AM

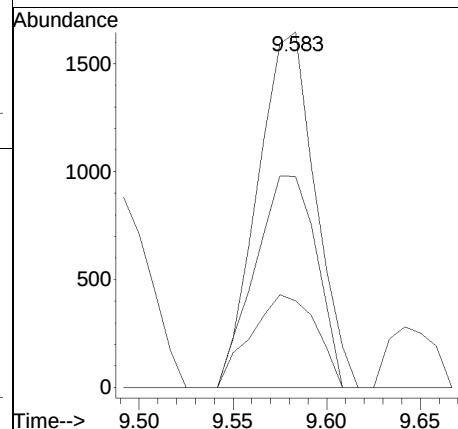
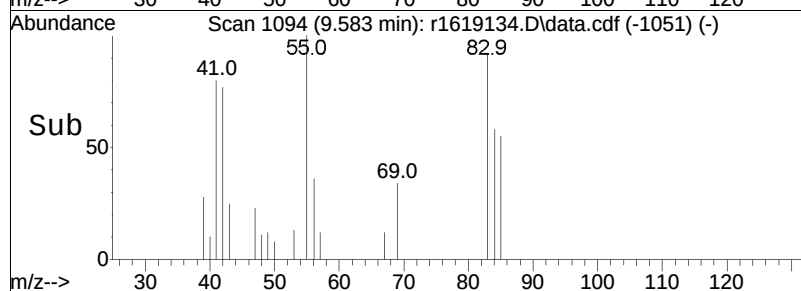
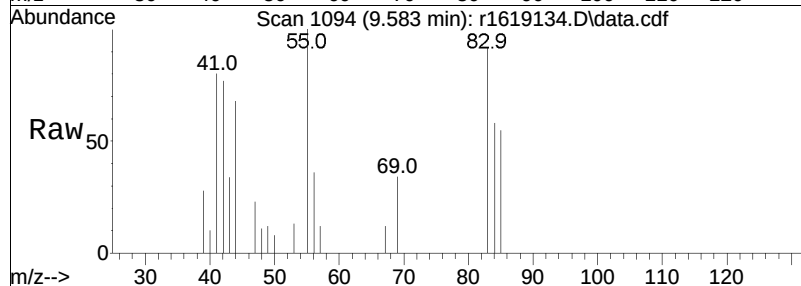
Tgt	Ion: 43	Resp:	23865
Ion	Ratio	Lower	Upper
43	100		
72	24.8	19.8	29.6
57	6.4	4.6	6.8

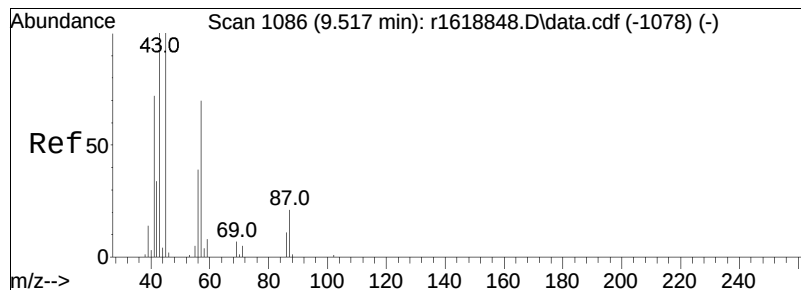




#39
chloroform
Concen: 0.16 ppbV
RT: 9.583 min Scan# 1094
Delta R.T. 0.025 min
Lab File: r1619134.D
Acq: 17 Sep 2020 2:05 AM

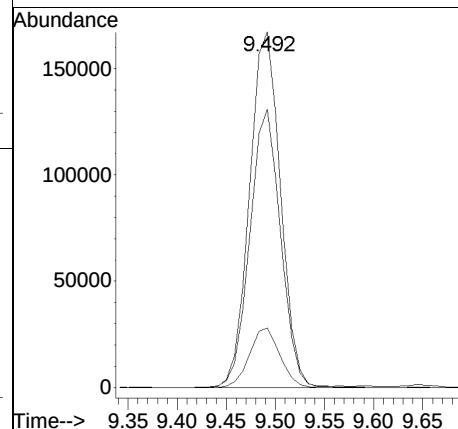
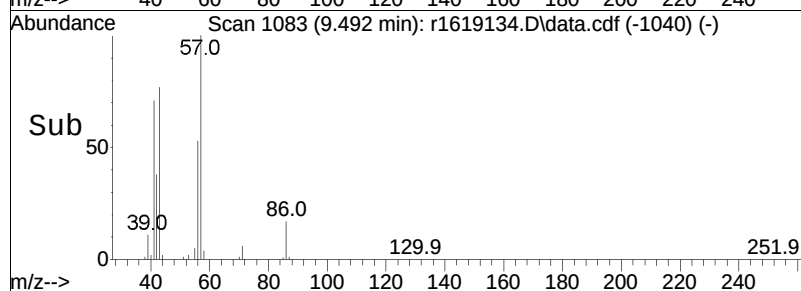
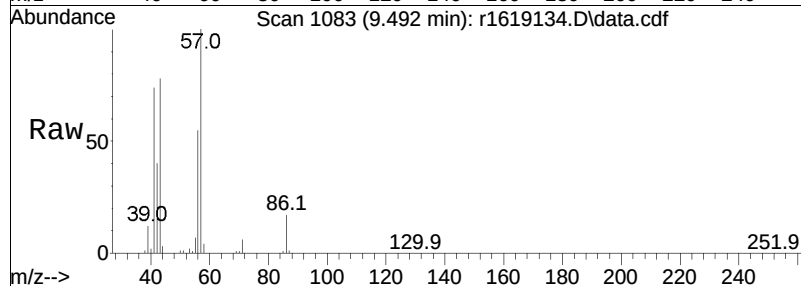
Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.3	51.5	77.3
47	24.4	20.1	30.1

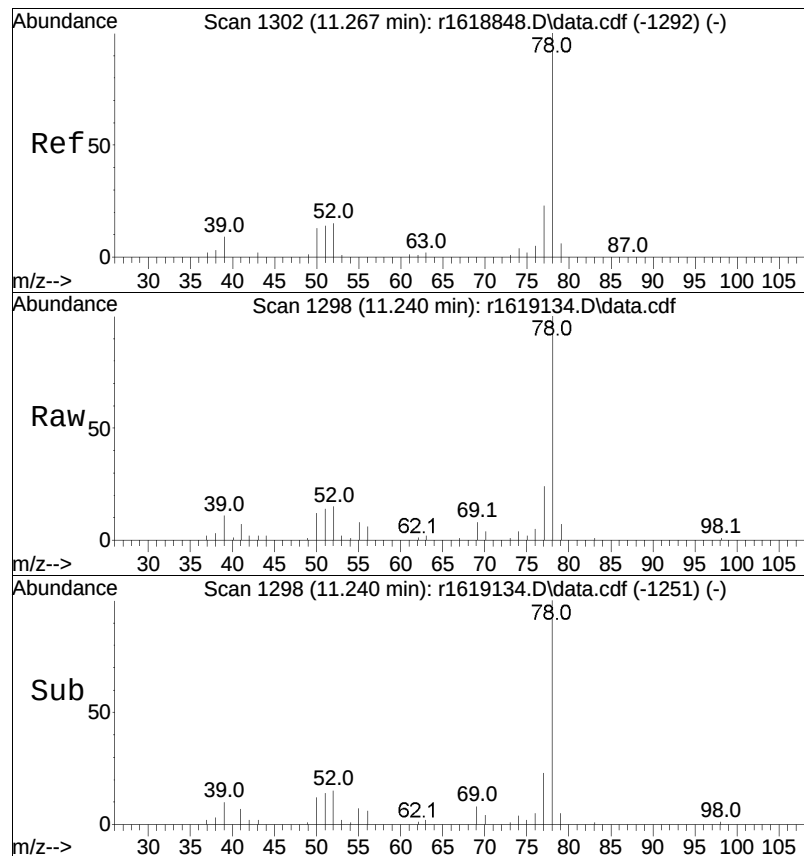




#44
hexane
Concen: 13.88 ppbV
RT: 9.492 min Scan# 1083
Delta R.T. 0.025 min
Lab File: r1619134.D
Acq: 17 Sep 2020 2:05 AM

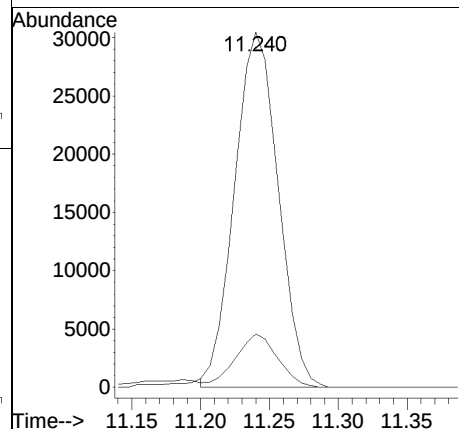
Tgt	Ion	Resp	Lower	Upper
57	100			
43	78.3	114.4	171.6#	
86	16.7	12.6	18.8	

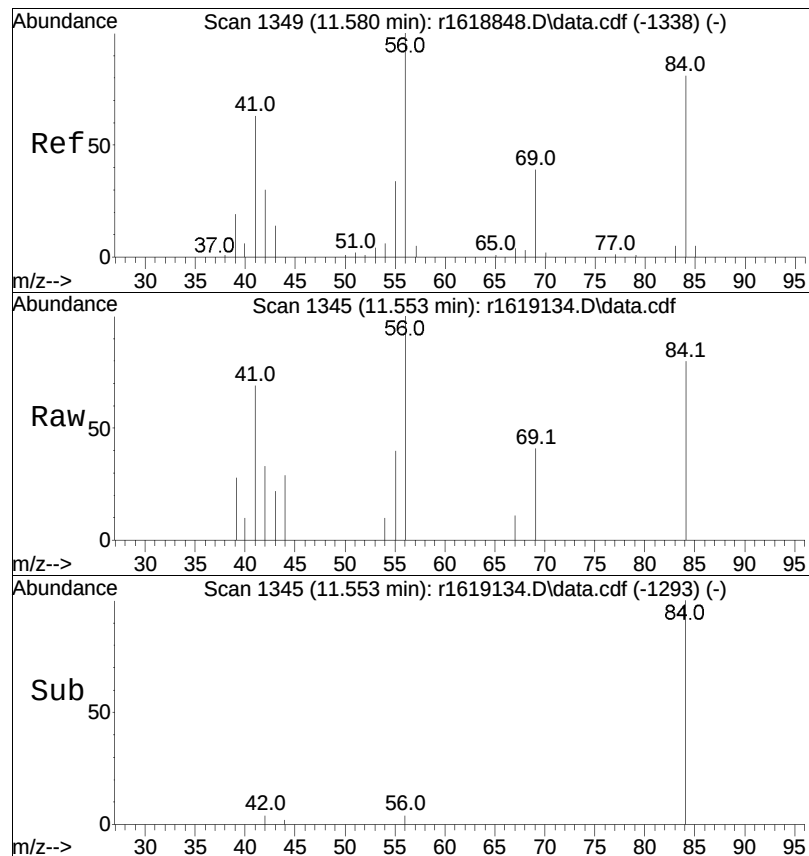




#50
benzene
Concen: 1.18 ppbV m
RT: 11.240 min Scan# 1298
Delta R.T. 0.020 min
Lab File: r1619134.D
Acq: 17 Sep 2020 2:05 AM

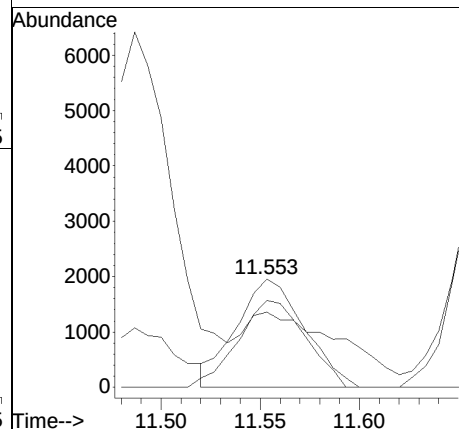
Tgt Ion	Ratio	Lower	Upper
78	100		
52	15.0	11.8	17.6

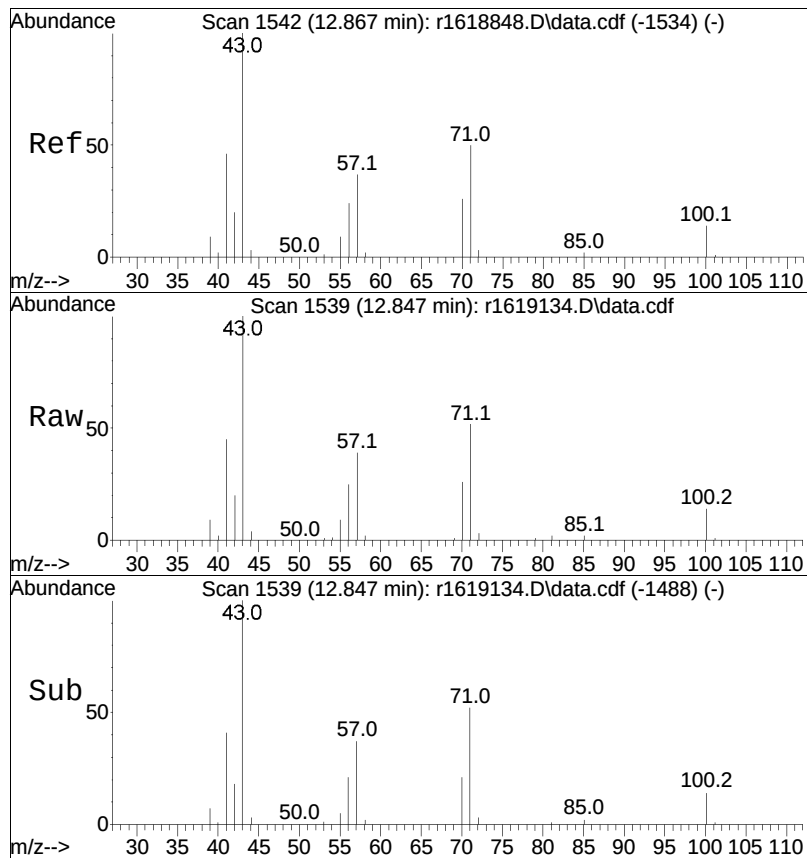




#53
cyclohexane
Concen: 0.16 ppbV
RT: 11.553 min Scan# 1345
Delta R.T. 0.020 min
Lab File: r1619134.D
Acq: 17 Sep 2020 2:05 AM

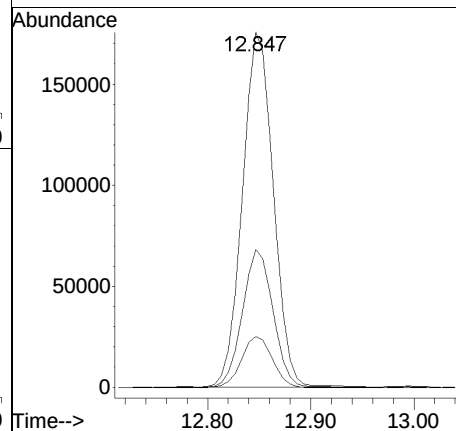
Tgt	Ion	Resp	Lower	Upper
56	100			
84	80.3	64.6	96.8	
41	69.4	50.5	75.7	

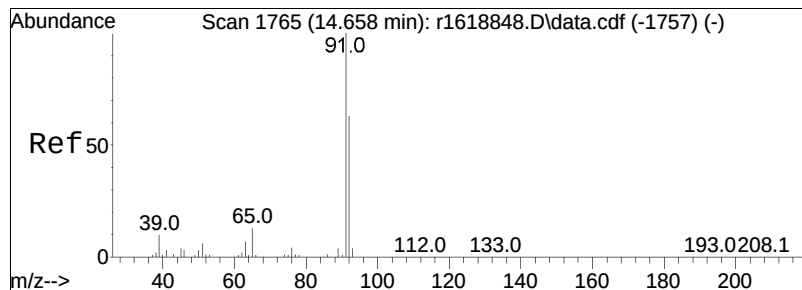




#62
 heptane
 Concen: 8.11 ppbV
 RT: 12.847 min Scan# 1539
 Delta R.T. 0.013 min
 Lab File: r1619134.D
 Acq: 17 Sep 2020 2:05 AM

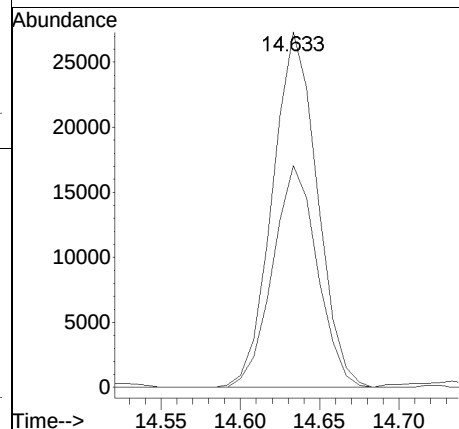
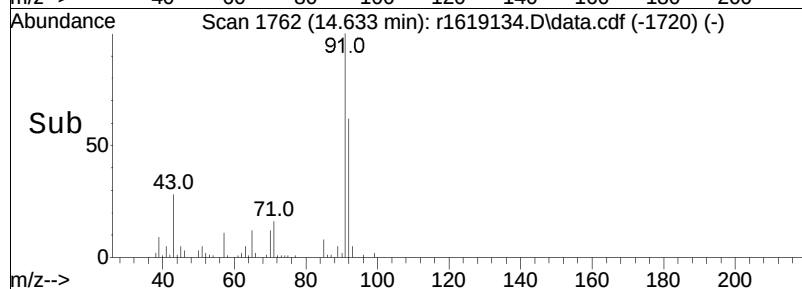
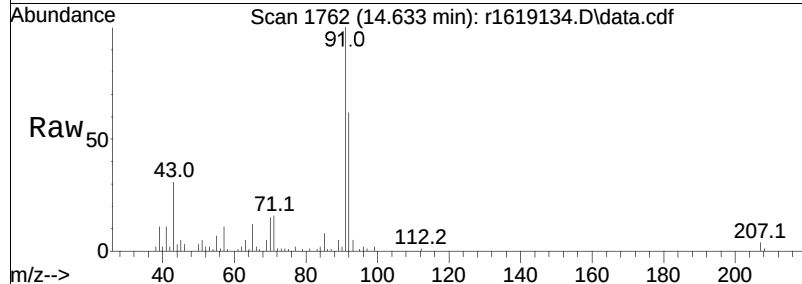
Tgt	Ion: 43	Resp:	365093
Ion	Ratio	Lower	Upper
43	100		
57	38.8	29.9	44.9
100	14.3	11.5	17.3

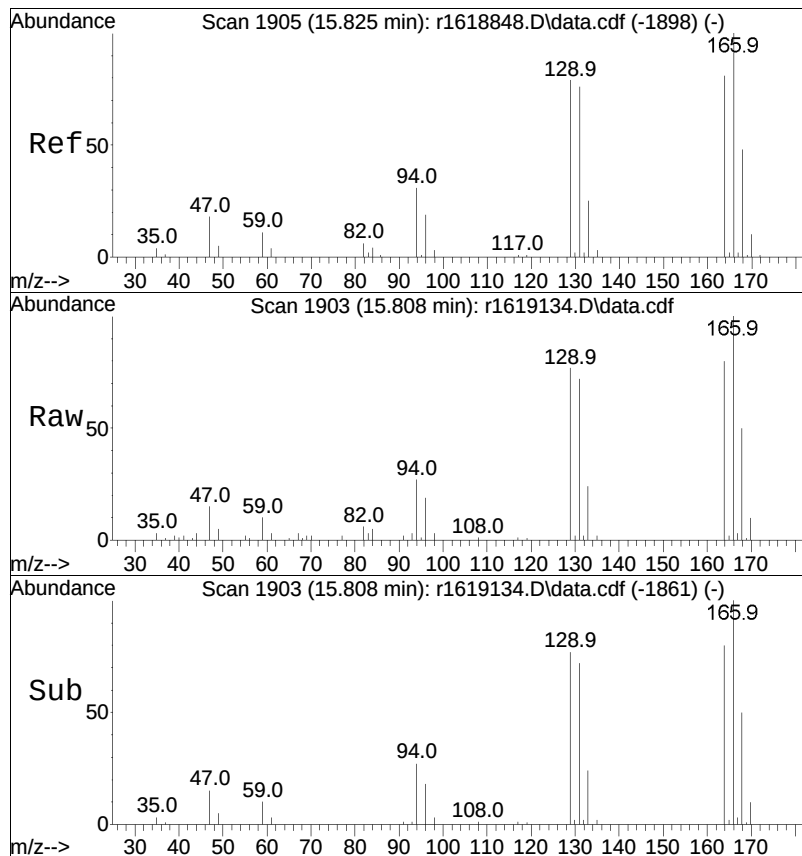




#68
toluene
Concen: 0.84 ppbV
RT: 14.633 min Scan# 1762
Delta R.T. 0.017 min
Lab File: r1619134.D
Acq: 17 Sep 2020 2:05 AM

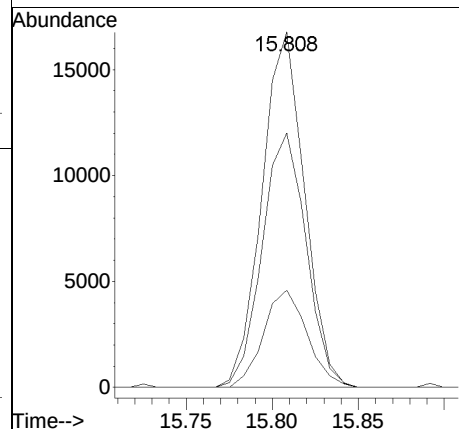
Tgt	Ion	Ratio	Lower	Upper
91	100			
92	62.4	50.6	75.8	

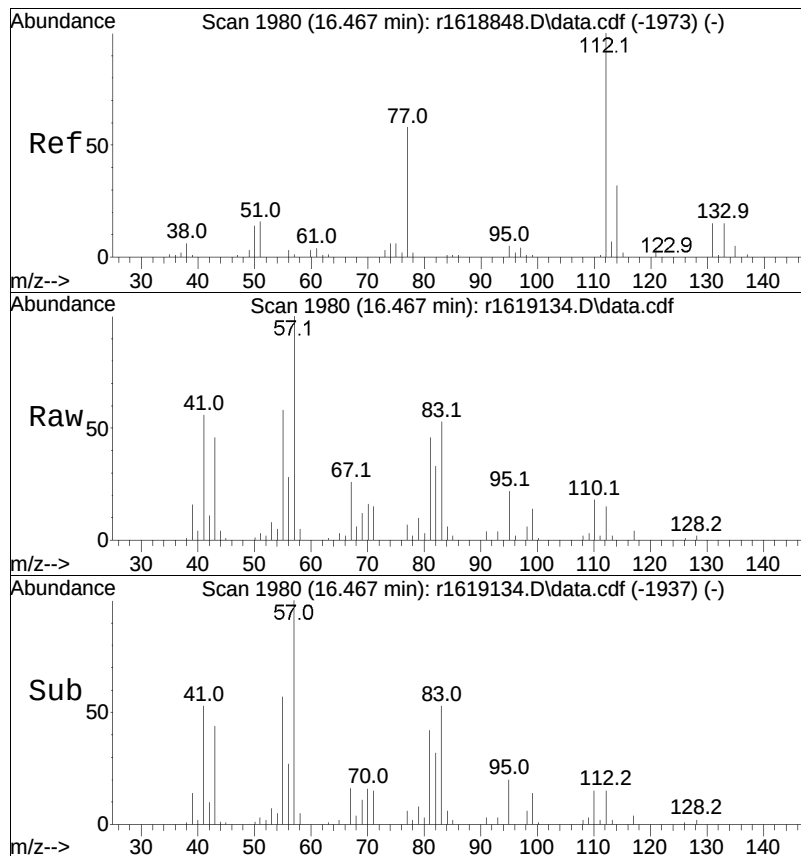




#78
 tetrachloroethene
 Concen: 1.05 ppbV
 RT: 15.808 min Scan# 1903
 Delta R.T. 0.017 min
 Lab File: r1619134.D
 Acq: 17 Sep 2020 2:05 AM

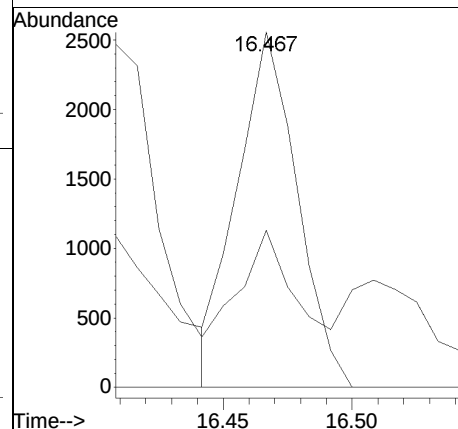
Tgt Ion:	166	Resp:	28930
Ion Ratio	Lower	Upper	
166	100		
131	71.6	61.0	91.6
94	27.4	24.6	37.0

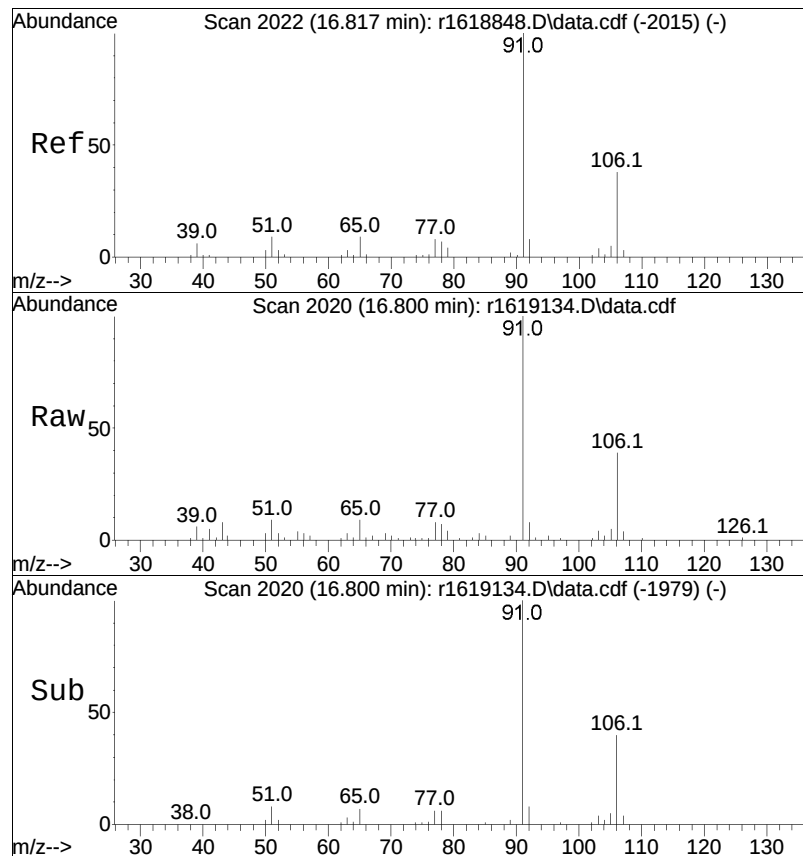




#80
chlorobenzene
Concen: 0.08 ppbV
RT: 16.467 min Scan# 1980
Delta R.T. 0.025 min
Lab File: r1619134.D
Acq: 17 Sep 2020 2:05 AM

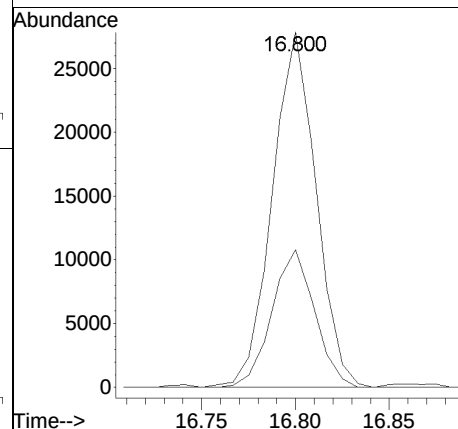
Tgt	Ion	Ratio	Resp	Lower	Upper
112	100		4125		
114	0.0	25.2		37.8#	
77	44.2	46.6		69.8#	

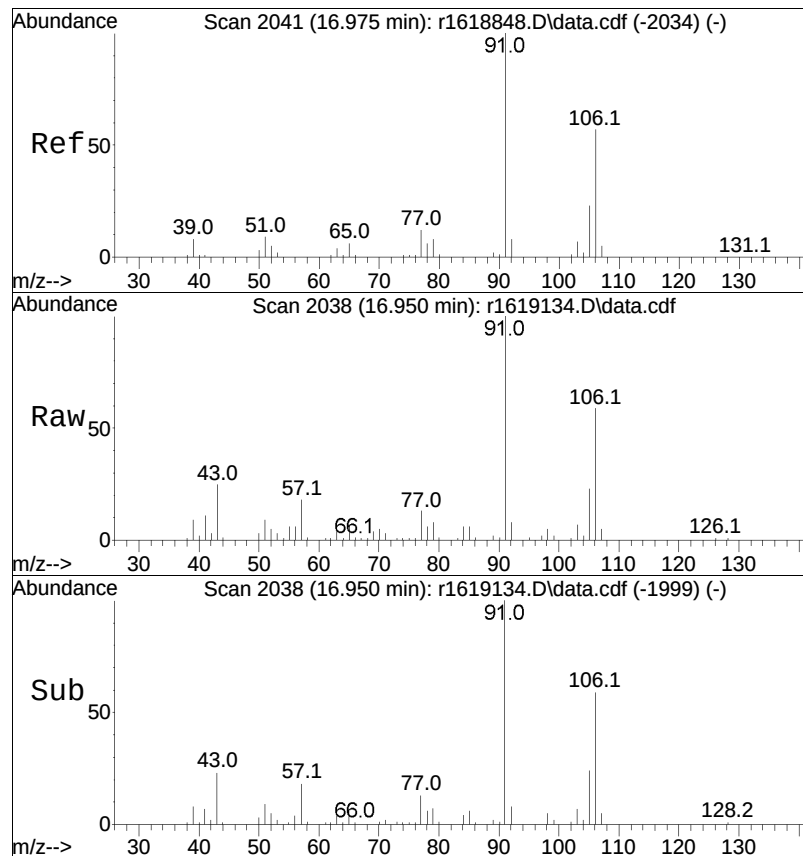




#81
ethylbenzene
Concen: 0.56 ppbV
RT: 16.800 min Scan# 2020
Delta R.T. 0.008 min
Lab File: r1619134.D
Acq: 17 Sep 2020 2:05 AM

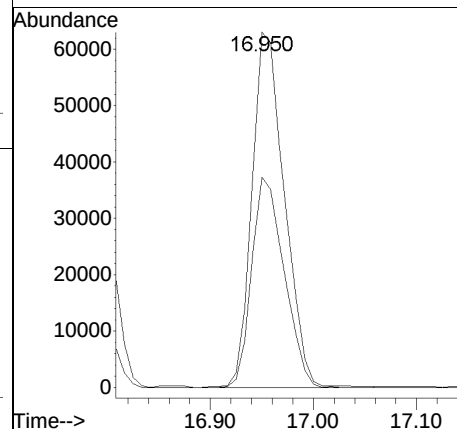
Tgt Ion	Ratio	Lower	Upper
91	100		
106	38.8	30.3	45.5

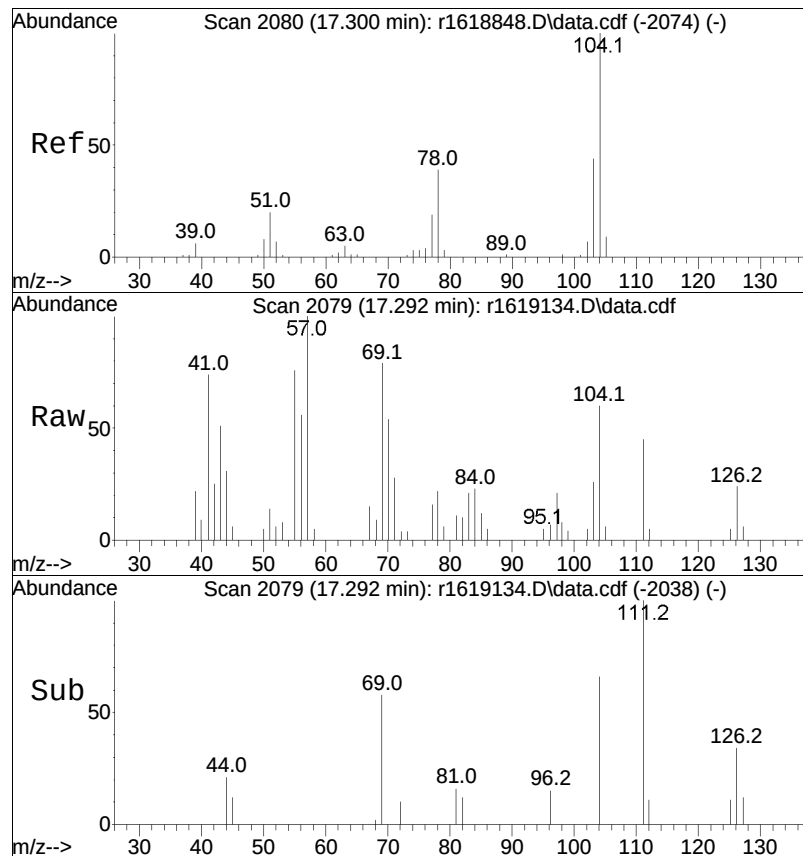




#83
 m+p-xylene
 Concen: 2.11 ppbV
 RT: 16.950 min Scan# 2038
 Delta R.T. -0.008 min
 Lab File: r1619134.D
 Acq: 17 Sep 2020 2:05 AM

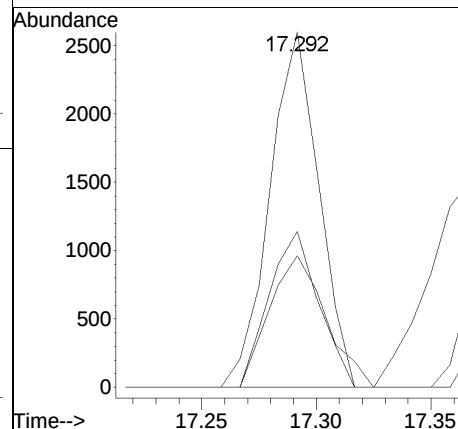
Tgt Ion:	91	106	Ratio	Lower	Upper
Resp:	137877				
Ion Ratio	100	59.2		45.2	67.8

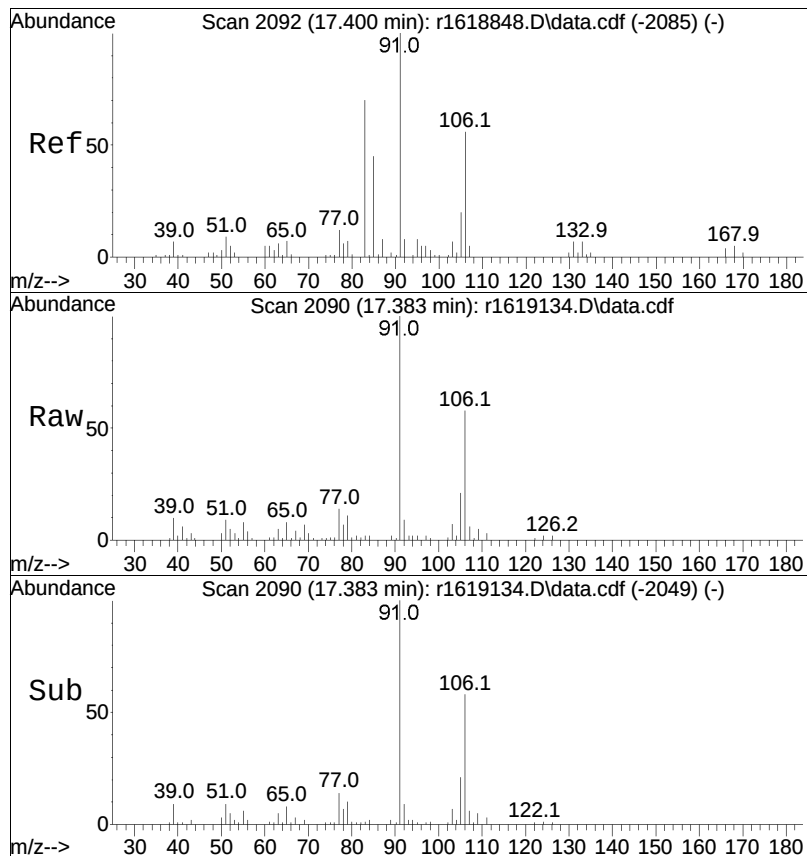




#85
styrene
Concen: 0.07 ppbV
RT: 17.292 min Scan# 2079
Delta R.T. 0.008 min
Lab File: r1619134.D
Acq: 17 Sep 2020 2:05 AM

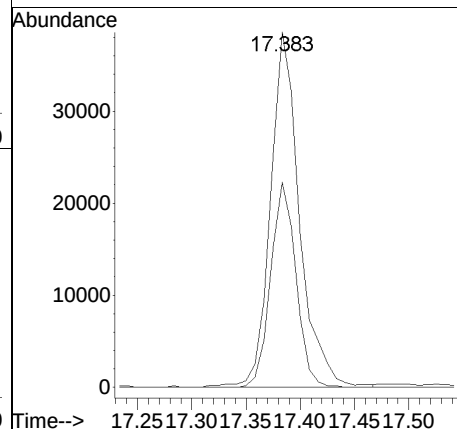
Tgt	Ion:104	Resp:	3872
Ion	Ratio	Lower	Upper
104	100		
103	43.9	35.3	52.9
78	37.1	31.5	47.3

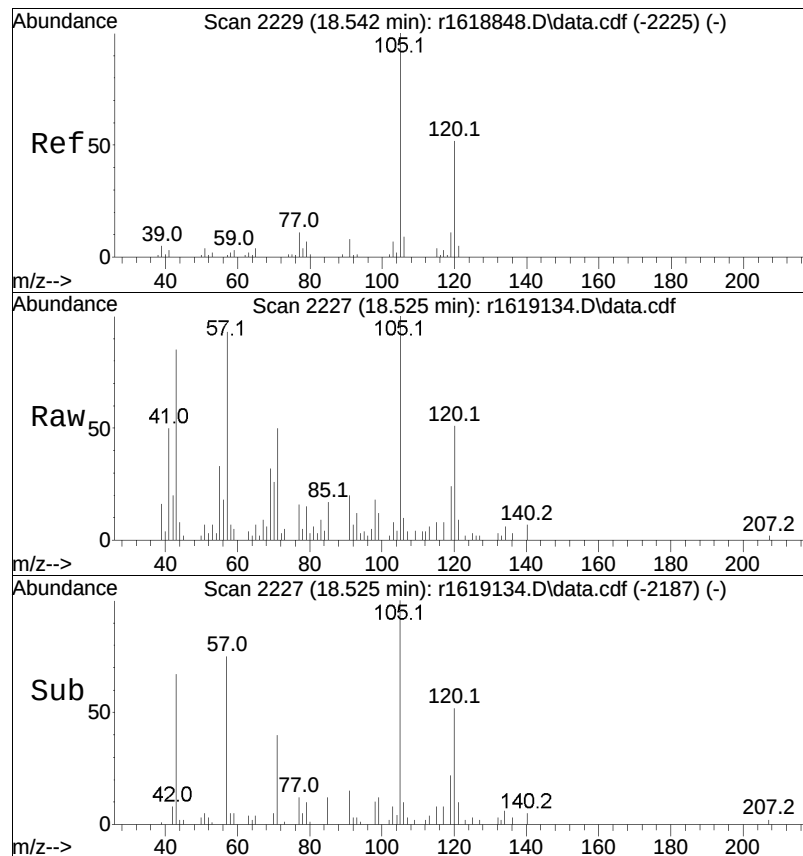




#87
 o-xylene
 Concen: 1.09 ppbV
 RT: 17.383 min Scan# 2090
 Delta R.T. 0.008 min
 Lab File: r1619134.D
 Acq: 17 Sep 2020 2:05 AM

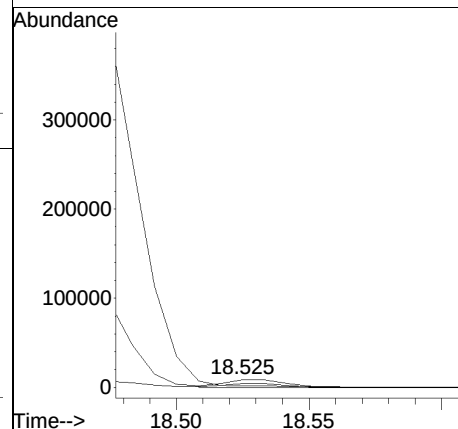
Tgt Ion:	91	106	Ratio	Lower	Upper
91	100				
106	57.7		44.6	66.8	

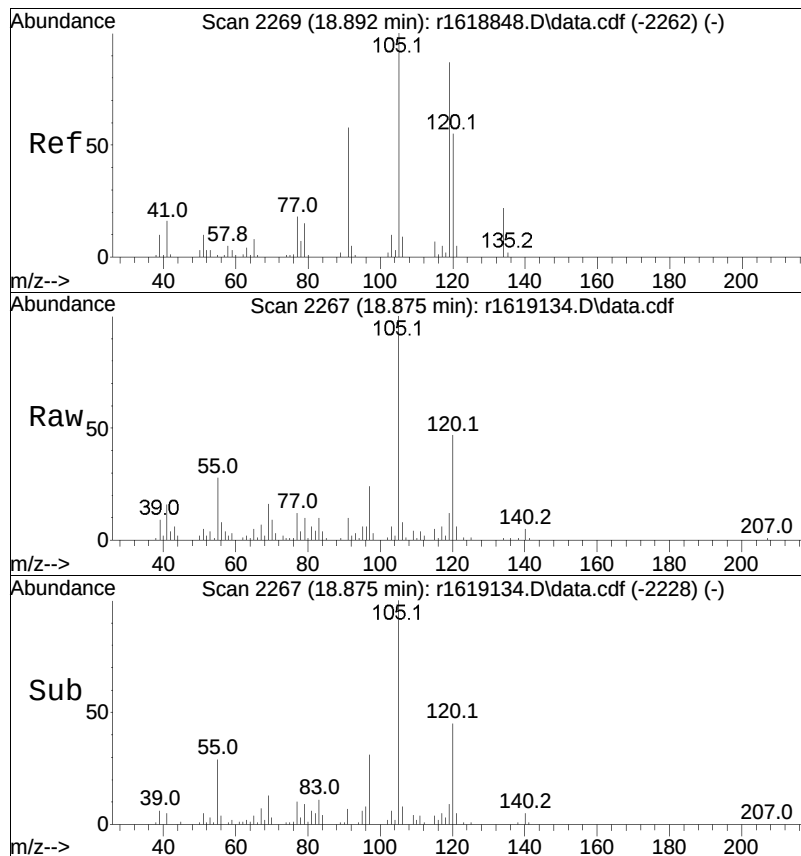




#97
 1,3,5-trimethylbenzene
 Concen: 0.17 ppbV m
 RT: 18.525 min Scan# 2227
 Delta R.T. 0.000 min
 Lab File: r1619134.D
 Acq: 17 Sep 2020 2:05 AM

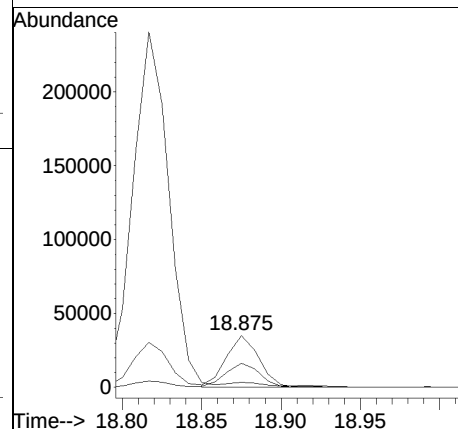
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	14179		
120	51.0		41.2	61.8
91	19.8		6.7	10.1#





#99
 1,2,4-trimethylbenzene
 Concen: 0.66 ppbV
 RT: 18.875 min Scan# 2267
 Delta R.T. 0.008 min
 Lab File: r1619134.D
 Acq: 17 Sep 2020 2:05 AM

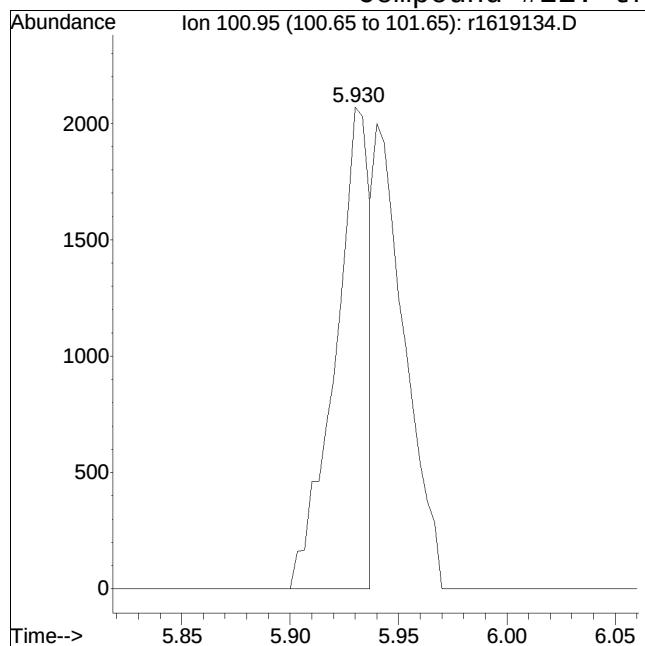
Tgt	Ion:105	Resp:	51275
Ion	Ratio	Lower	Upper
105	100		
120	46.7	44.0	66.0
91	9.9	46.2	69.4#



Manual Integration Report

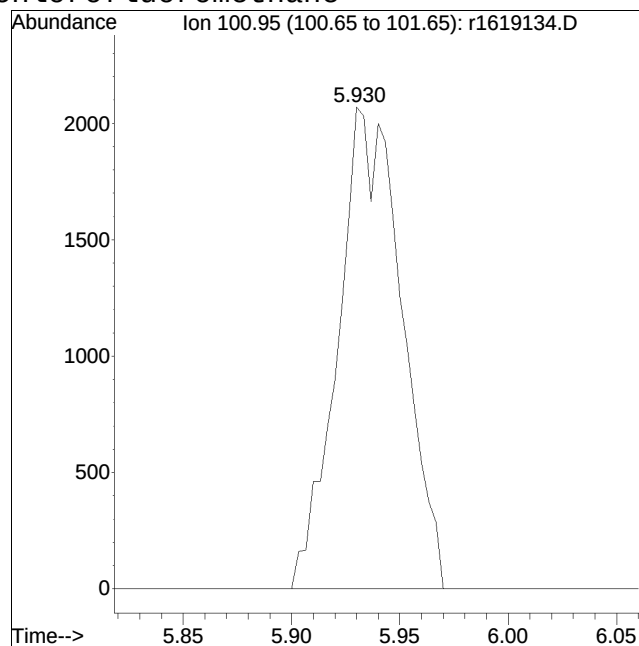
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619134.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:2: 5 Instrument :
Sample : L2037647-09D,3,75,250 Quant Date : 9/17/2020 5:45 am

Compound #21: trichlorofluoromethane



Original Peak Response = 2291

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

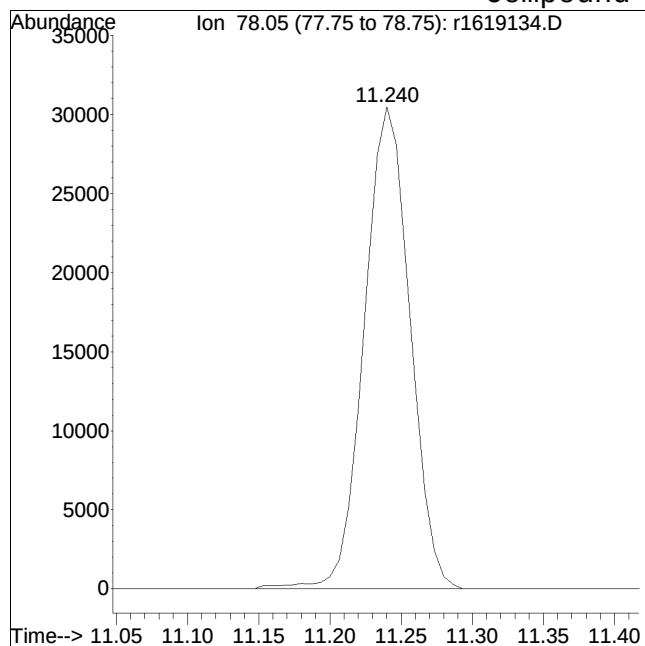


Manual Peak Response = 4252 M6

Manual Integration Report

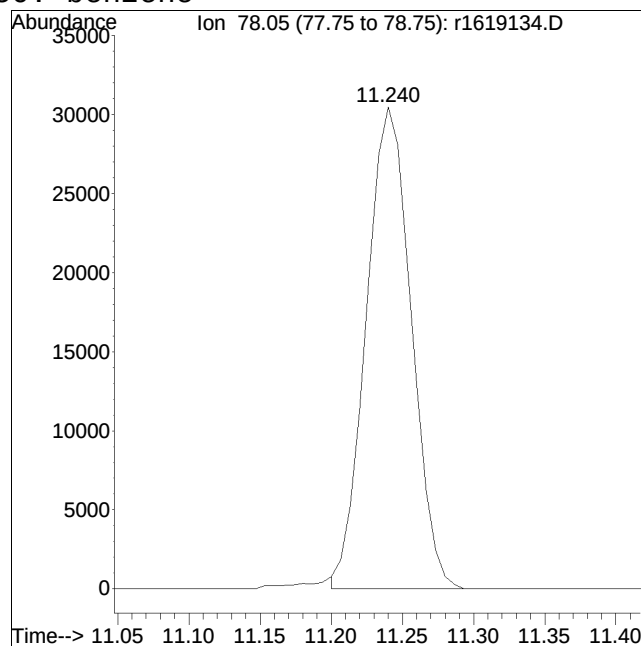
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619134.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:2: 5 Instrument :
Sample : L2037647-09D,3,75,250 Quant Date : 9/17/2020 5:45 am

Compound #50: benzene



Original Peak Response = 68237

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

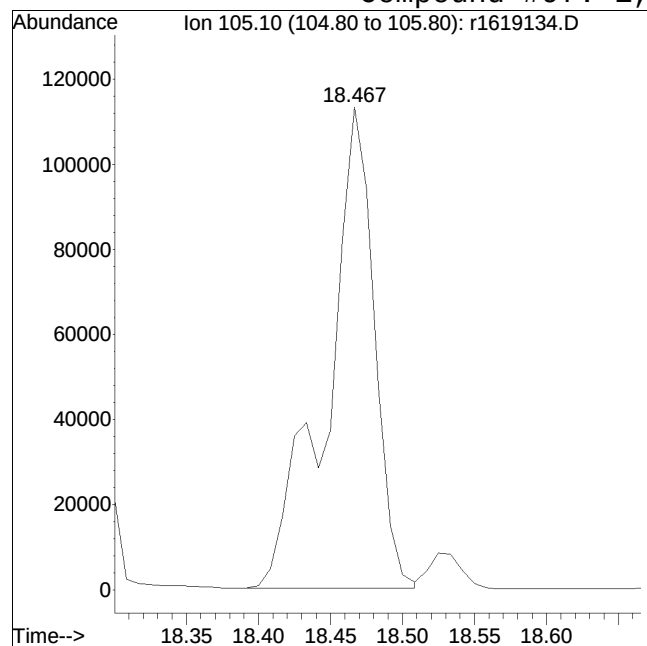


Manual Peak Response = 67124 M6

Manual Integration Report

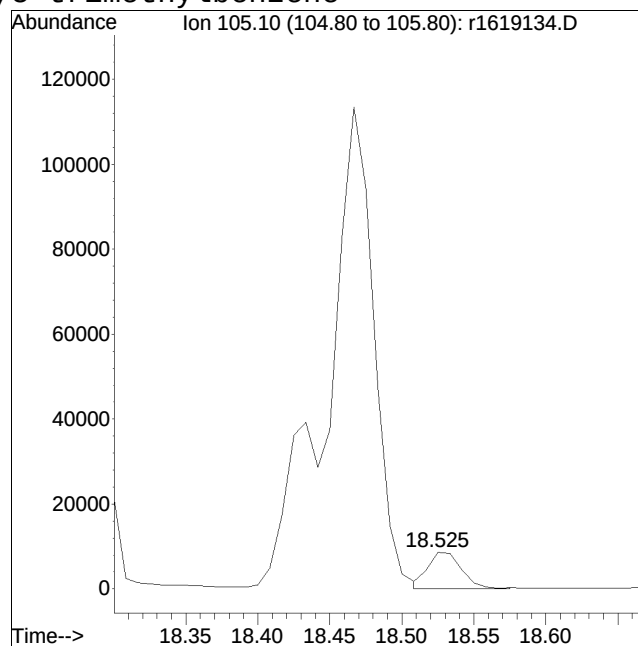
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619134.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:2: 5 Instrument :
Sample : L2037647-09D,3,75,250 Quant Date : 9/17/2020 5:45 am

Compound #97: 1,3,5-trimethylbenzene



Original Peak Response = 258392

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 14179 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619135.D
 Acq On : 17 Sep 2020 2:45 AM
 Operator : AIRLAB16:TS
 Sample : L2037647-10,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:59:39 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.408	49	231440	10.000	ppbV	0.02
Standard Area = 289019			Recovery =	80.08%		
43) 1,4-difluorobenzene	11.680	114	788604	10.000	ppbV	0.01
Standard Area = 862875			Recovery =	91.39%		
67) chlorobenzene-D5	16.408	54	103139	10.000	ppbV	0.00
Standard Area = 122360			Recovery =	84.29%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.880	85	9764	0.445	ppbV	96
6) chloromethane	4.060	50	8144	0.586	ppbV	95
7) Freon-114	4.186		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.474	54	761	0.070	ppbV	96
13) bromomethane	0.000		0	N.D.		
14) chloroethane	4.996		0	N.D.		
15) ethanol	5.188	31	109830	13.232	ppbV	96
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.760	43	83418M6	4.154	ppbV	
21) trichlorofluoromethane	5.940	101	3566	0.200	ppbV	96
22) isopropyl alcohol	6.100	45	43555	1.714	ppbV	100
26) 1,1-dichloroethene	6.646		0	N.D.		
27) tertiary butyl alcohol	0.000		0	N.D.	d	
28) methylene chloride	6.862	49	3508	0.216	ppbV	98
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	7.150	76	8308	0.196	ppbV #	19
31) Freon 113	7.192	101	1686	0.069	ppbV	87
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	8.350		0	N.D.		
34) MTBE	0.000		0	N.D.	d	
36) 2-butanone	8.725	43	294771	9.313	ppbV	98
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	9.550	61	1055	0.196	ppbV #	35
39) chloroform	9.583	83	2558	0.114	ppbV	97
40) Tetrahydrofuran	10.067	42	2217	0.099	ppbV #	88
42) 1,2-dichloroethane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619135.D
 Acq On : 17 Sep 2020 2:45 AM
 Operator : AIRLAB16:TS
 Sample : L2037647-10,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:59:39 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
44) hexane	9.483	57	22853	0.851	ppbV	#	48
48) 1,1,1-trichloroethane	0.000		0	N.D.			
50) benzene	11.240	78	14739	0.254	ppbV		97
52) carbon tetrachloride	11.413	117	1137	0.052	ppbV	#	79
53) cyclohexane	11.560	56	4486	0.154	ppbV		93
56) 1,2-dichloropropane	0.000		0	N.D.			
57) bromodichloromethane	12.427		0	N.D.			
58) 1,4-dioxane	0.000		0	N.D.	d		
59) trichloroethene	0.000		0	N.D.			
60) 2,2,4-trimethylpentane	12.527	57	60281	0.656	ppbV		99
62) heptane	12.847	43	14020M6	0.306	ppbV		
63) cis-1,3-dichloropropene	0.000		0	N.D.			
64) 4-methyl-2-pentanone	13.575	43	4842	0.092	ppbV		99
65) trans-1,3-dichloropropene	0.000		0	N.D.			
66) 1,1,2-trichloroethane	0.000		0	N.D.			
68) toluene	14.633	91	47700	0.746	ppbV		98
72) 2-hexanone	14.950	43	47290M6	1.047	ppbV		
74) dibromochloromethane	0.000		0	N.D.			
75) 1,2-dibromoethane	0.000		0	N.D.			
78) tetrachloroethene	15.808	166	3163	0.115	ppbV		100
80) chlorobenzene	0.000		0	N.D.	d		
81) ethylbenzene	16.800	91	34166	0.422	ppbV		99
83) m+p-xylene	16.958	91	121336	1.859	ppbV		96
84) bromoform	0.000		0	N.D.			
85) styrene	17.292	104	30826	0.560	ppbV		97
86) 1,1,2,2-tetrachloroethane	17.217		0	N.D.			
87) o-xylene	17.383	91	55615	0.847	ppbV		96
96) 4-ethyl toluene	18.467	105	11227M6	0.115	ppbV		
97) 1,3,5-trimethylbenzene	18.533	105	16964	0.204	ppbV	#	98
99) 1,2,4-trimethylbenzene	18.875	105	68632	0.878	ppbV	#	62
101) Benzyl Chloride	19.067		0	N.D.			
102) 1,3-dichlorobenzene	19.067		0	N.D.			
103) 1,4-dichlorobenzene	19.067		0	N.D.			
107) 1,2-dichlorobenzene	19.358		0	N.D.			
115) 1,2,4-trichlorobenzene	0.000		0	N.D.			
119) hexachlorobutadiene	0.000		0	N.D.			

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619135.D
 Acq On : 17 Sep 2020 2:45 AM
 Operator : AIRLAB16:TS
 Sample : L2037647-10,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 08:59:39 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

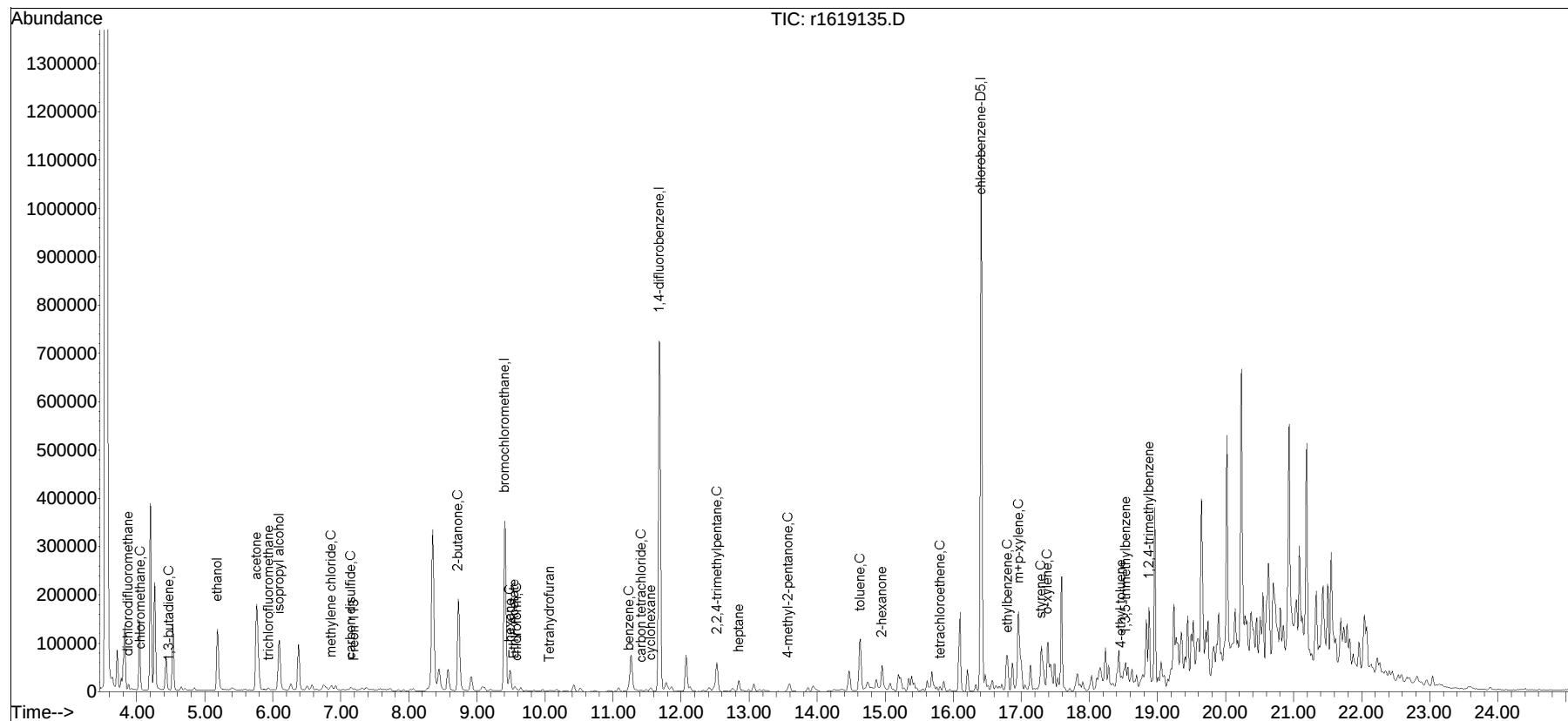
CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : T015-NY - .

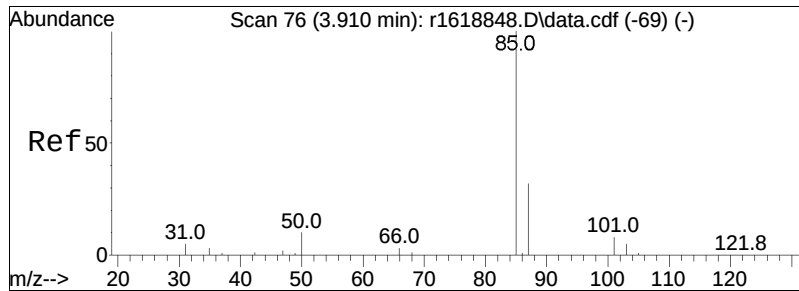
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : T015-NY - .s\Data\Airlab16\2020\09\200916T\r1619115.D

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
Data File : r1619135.D
Acq On : 17 Sep 2020 2:45 AM
Operator : AIRLAB16:TS
Sample : L2037647-10,3,250,250
Misc : WG1410723,ICAL17102
ALS Vial : 0 Sample Multiplier: 1

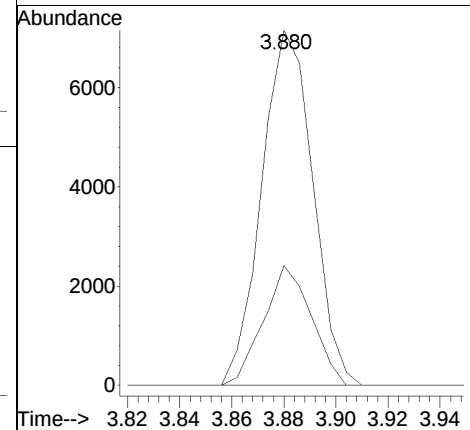
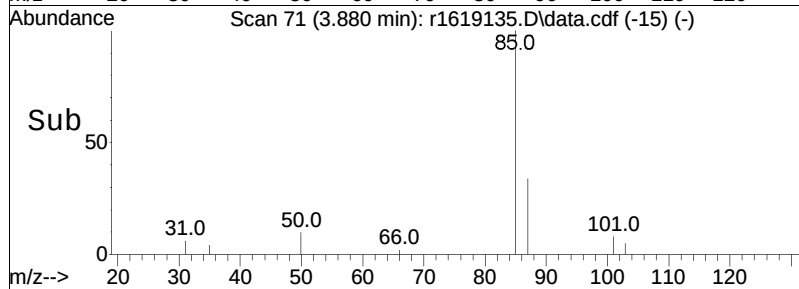
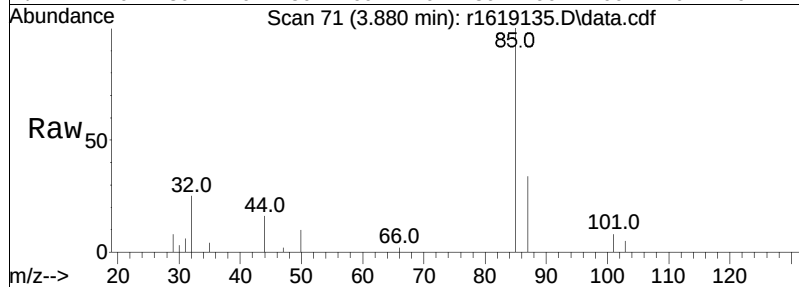
Quant Time: Sep 17 08:59:39 2020
Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Sep 16 13:18:40 2020
Response via : Initial Calibration

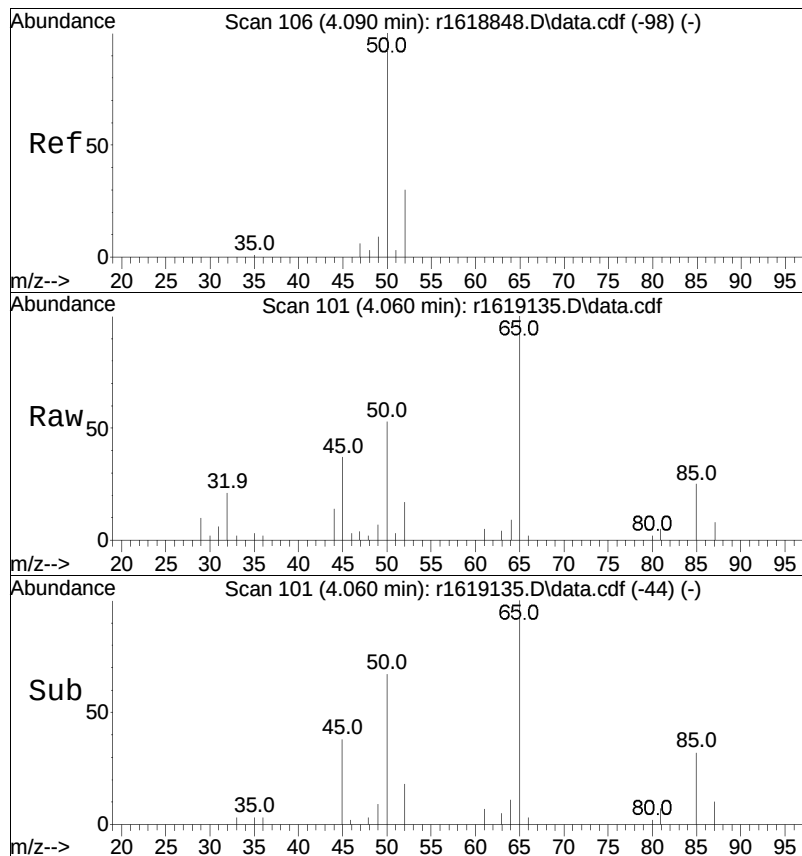




#5
 dichlorodifluoromethane
 Concen: 0.45 ppbV
 RT: 3.880 min Scan# 71
 Delta R.T. 0.006 min
 Lab File: r1619135.D
 Acq: 17 Sep 2020 2:45 AM

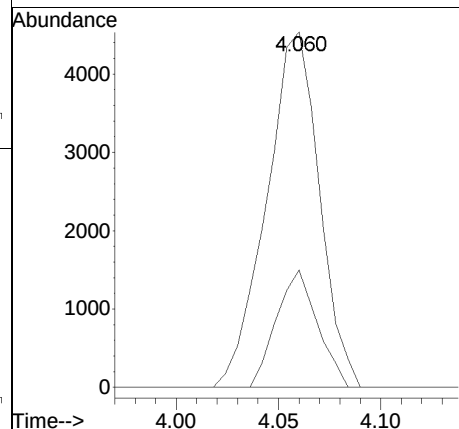
Tgt Ion: 85 Resp: 9764
 Ion Ratio Lower Upper
 85 100
 87 33.8 25.4 38.2

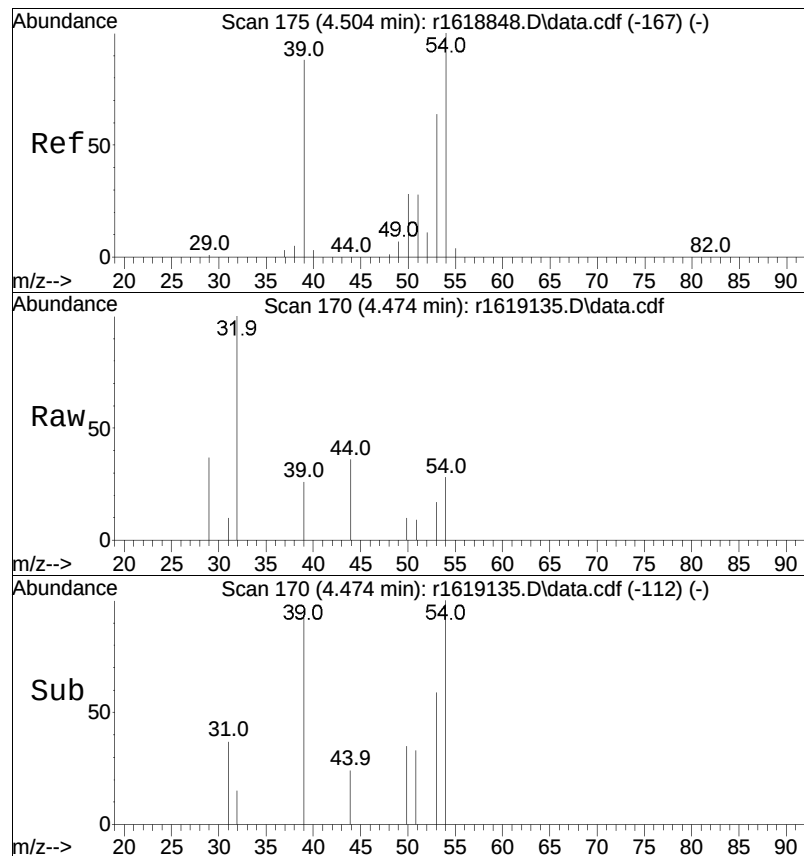




#6
 chloromethane
 Concen: 0.59 ppbV
 RT: 4.060 min Scan# 101
 Delta R.T. 0.012 min
 Lab File: r1619135.D
 Acq: 17 Sep 2020 2:45 AM

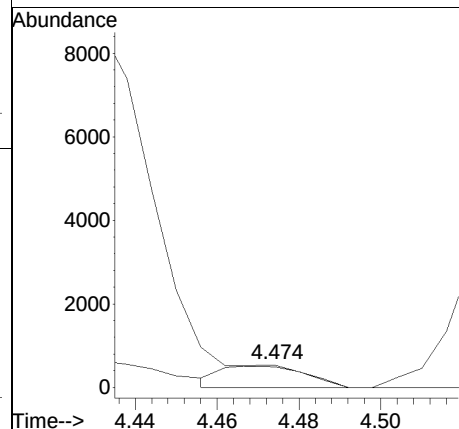
Tgt	Ion	Resp	Lower	Upper
50	100	8144		
52	33.0	24.2	36.4	

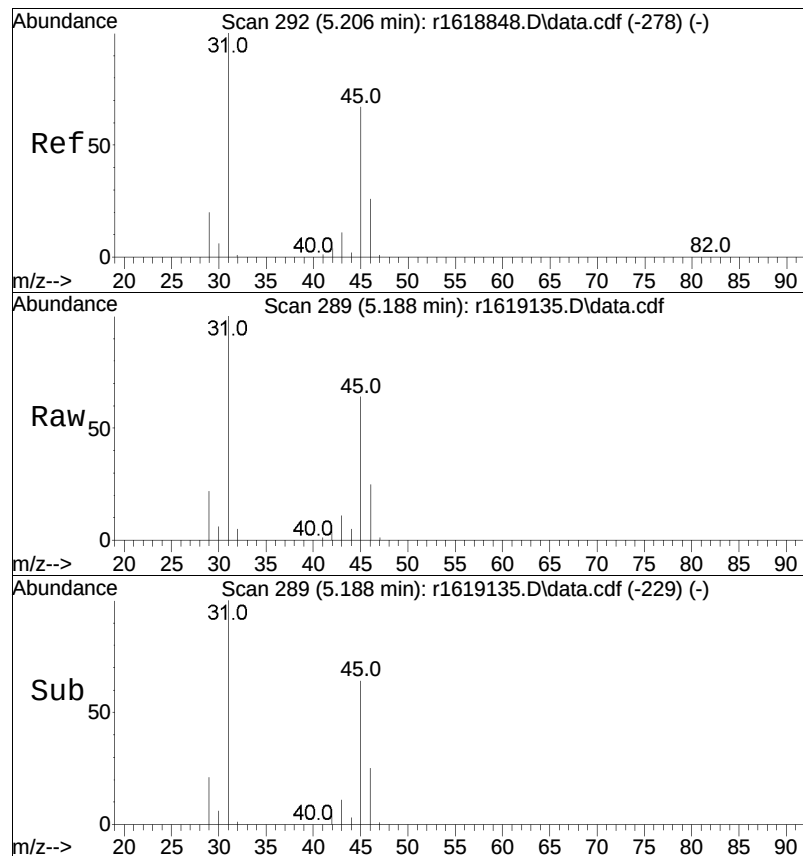




#10
 1,3-butadiene
 Concen: 0.07 ppbV
 RT: 4.474 min Scan# 170
 Delta R.T. 0.018 min
 Lab File: r1619135.D
 Acq: 17 Sep 2020 2:45 AM

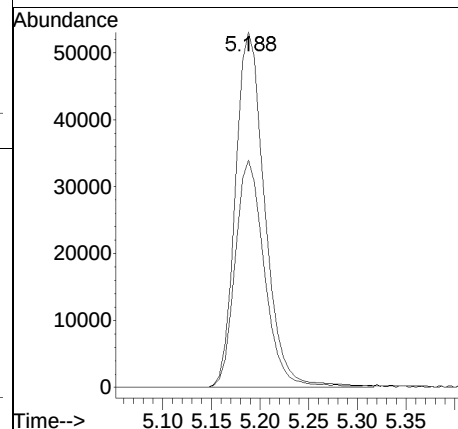
Tgt Ion	Ratio	Lower	Upper
54	100		
39	92.3	70.9	106.3

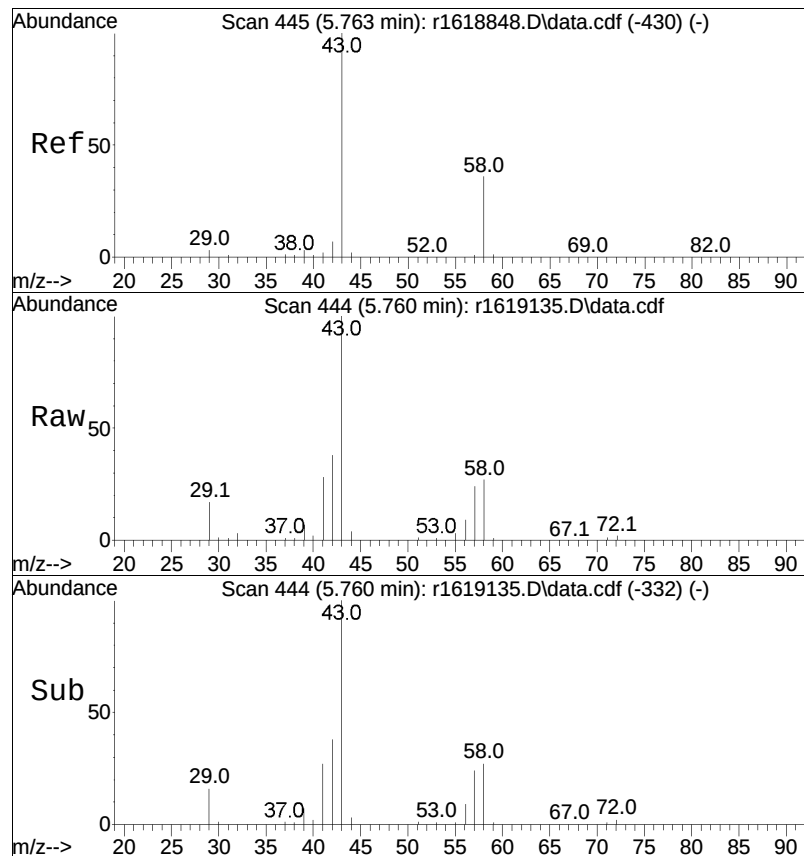




#15
 ethanol
 Concen: 13.23 ppbV
 RT: 5.188 min Scan# 289
 Delta R.T. 0.030 min
 Lab File: r1619135.D
 Acq: 17 Sep 2020 2:45 AM

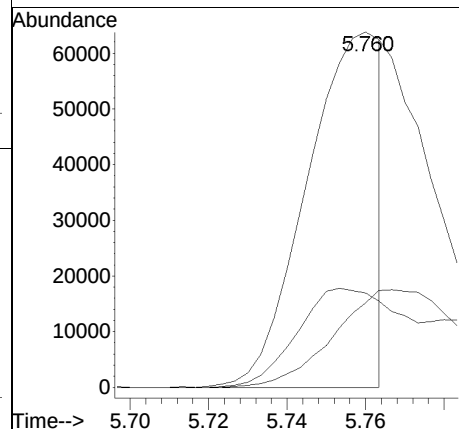
Tgt Ion	Ratio	Lower	Upper
31	100		
45	64.0	54.0	81.0

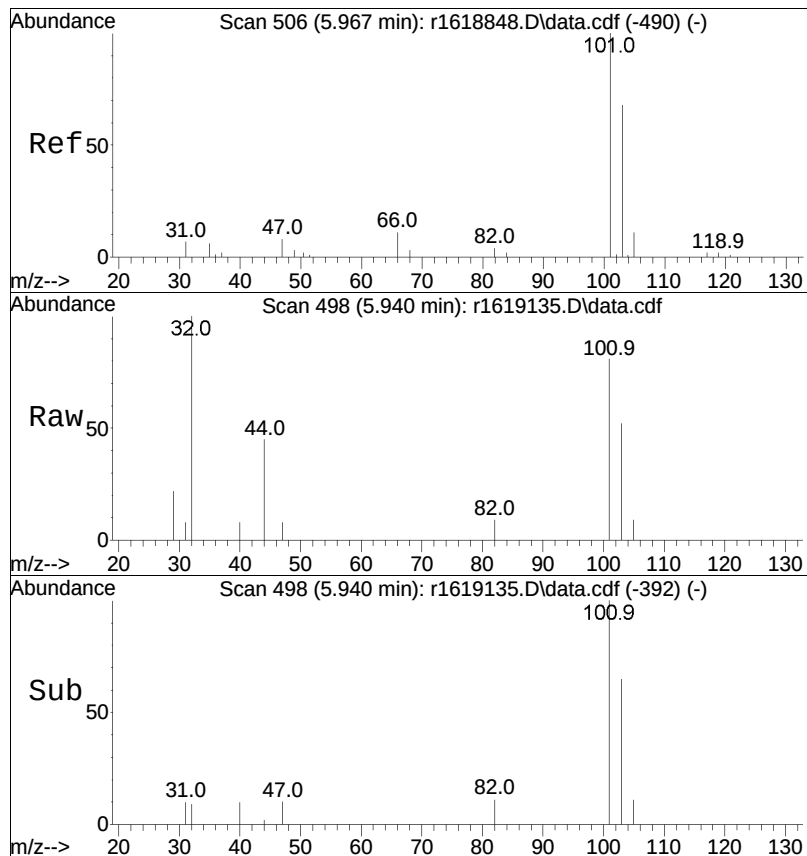




#19
 acetone
 Concen: 4.15 ppbV m
 RT: 5.760 min Scan# 444
 Delta R.T. 0.043 min
 Lab File: r1619135.D
 Acq: 17 Sep 2020 2:45 AM

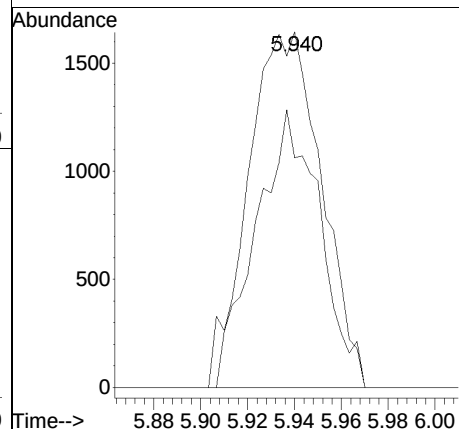
Tgt Ion:	43	Resp:	83418
Ion Ratio	Lower	Upper	
43	100		
58	26.6	28.9	43.3#
57	23.8	0.7	1.1#

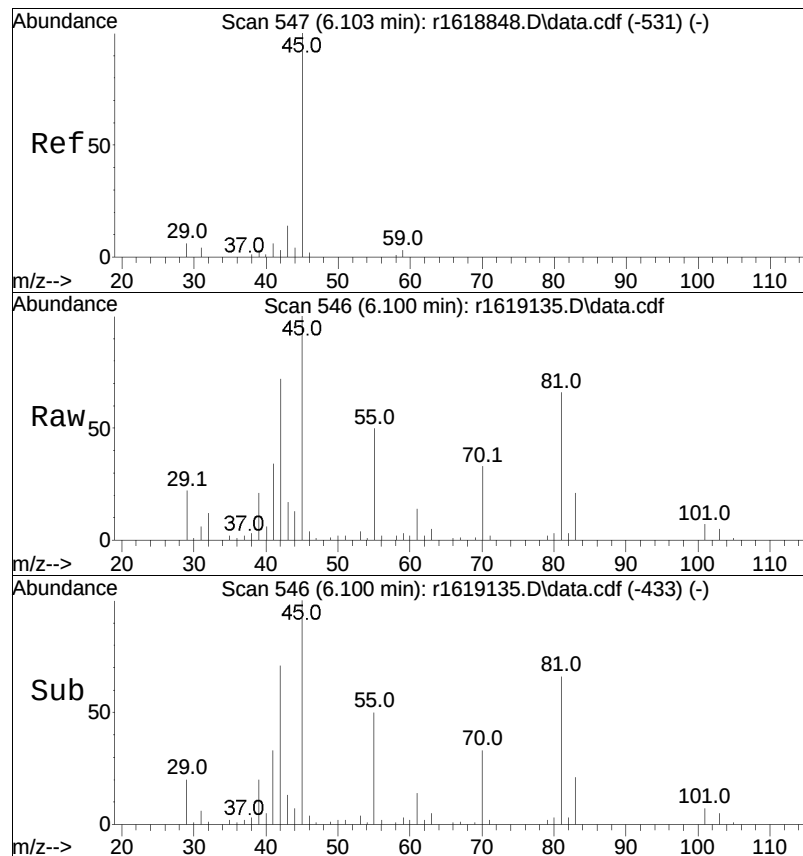




#21
 trichlorofluoromethane
 Concen: 0.20 ppbV
 RT: 5.940 min Scan# 498
 Delta R.T. 0.023 min
 Lab File: r1619135.D
 Acq: 17 Sep 2020 2:45 AM

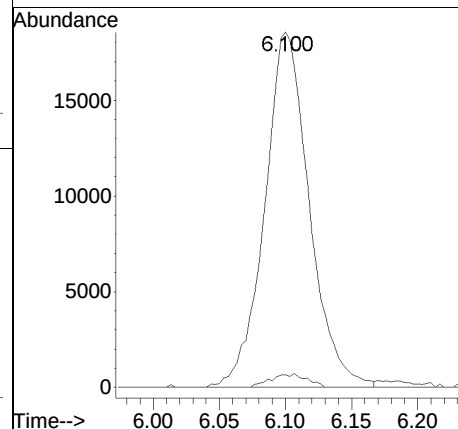
Tgt	Ion	Ratio	Lower	Upper
101	100			
103	64.7	54.6	82.0	

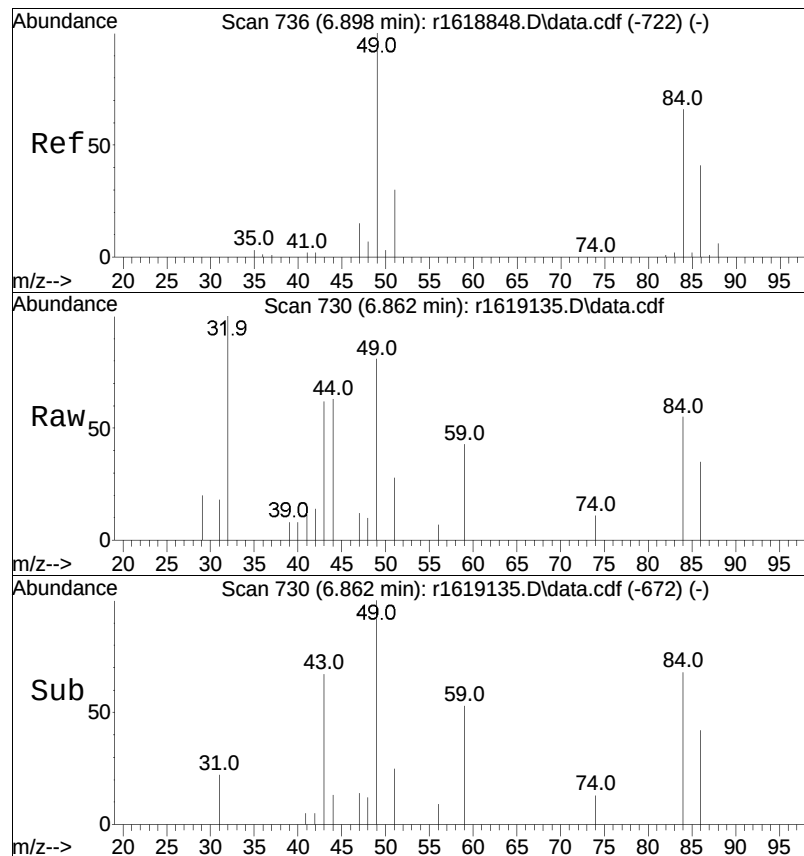




#22
 isopropyl alcohol
 Concen: 1.71 ppbV
 RT: 6.100 min Scan# 546
 Delta R.T. 0.047 min
 Lab File: r1619135.D
 Acq: 17 Sep 2020 2:45 AM

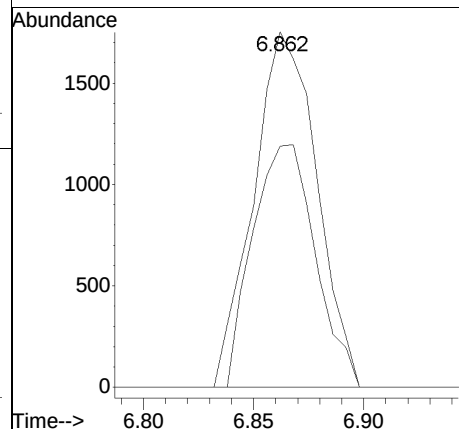
Tgt Ion	Ratio	Lower	Upper
45	100		
59	3.5	2.7	4.1

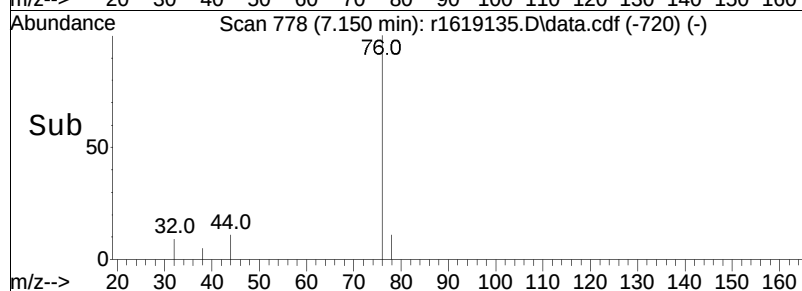
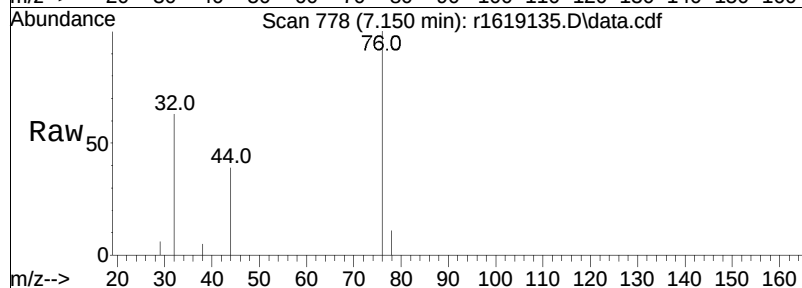
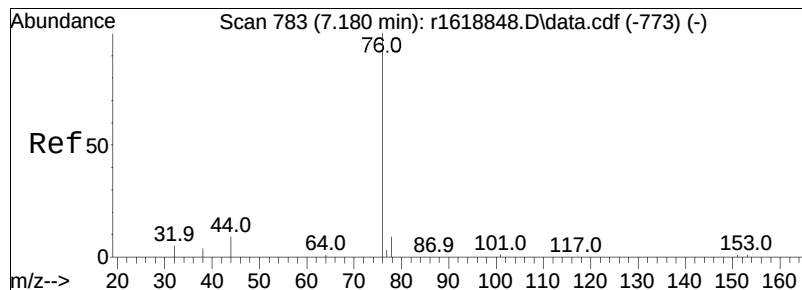




#28
methylene chloride
Concen: 0.22 ppbV
RT: 6.862 min Scan# 730
Delta R.T. 0.012 min
Lab File: r1619135.D
Acq: 17 Sep 2020 2:45 AM

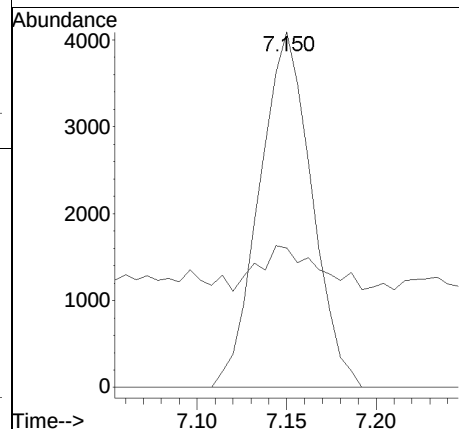
Tgt	Ion: 49	Resp:	3508
Ion	Ratio	Lower	Upper
49	100		
84	67.9	53.2	79.8

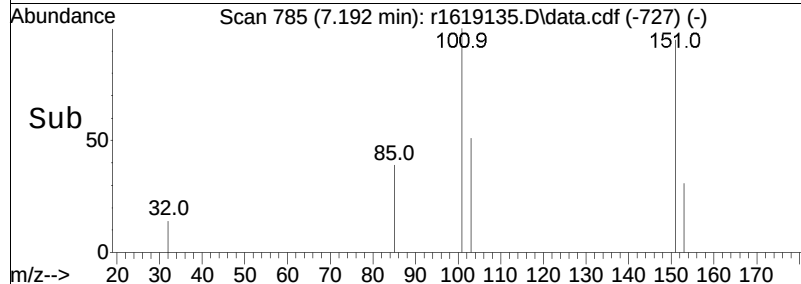
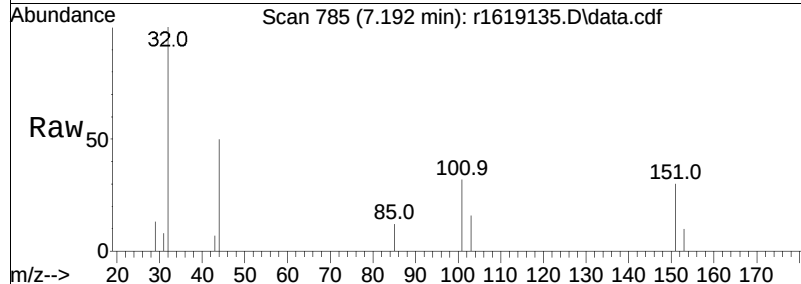
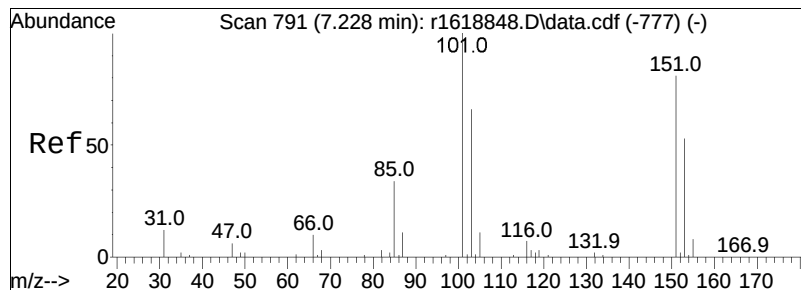




#30
carbon disulfide
Concen: 0.20 ppbV
RT: 7.150 min Scan# 778
Delta R.T. 0.018 min
Lab File: r1619135.D
Acq: 17 Sep 2020 2:45 AM

Tgt Ion	Ratio	Lower	Upper
76	100		
44	39.3	7.7	11.5#





#31

Freon 113

Concen: 0.07 ppbV

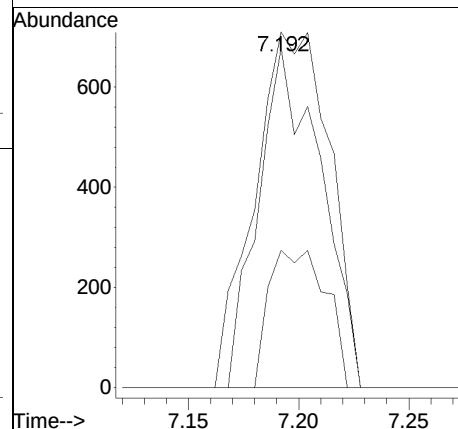
RT: 7.192 min Scan# 785

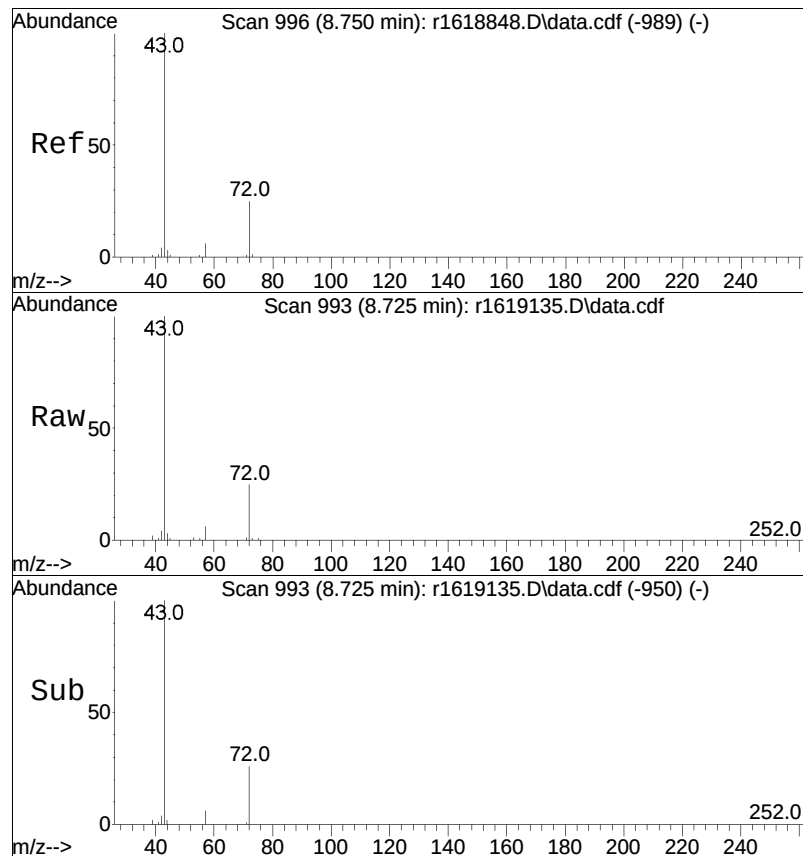
Delta R.T. 0.018 min

Lab File: r1619135.D

Acq: 17 Sep 2020 2:45 AM

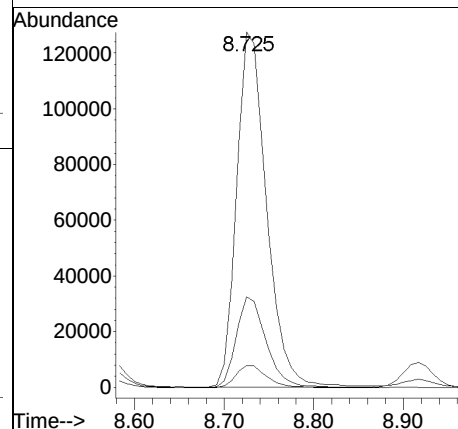
Tgt Ion:	101	Resp:	1686
Ion Ratio	Lower	Upper	
101	100		
85	38.6	27.5	41.3
151	95.5	65.1	97.7

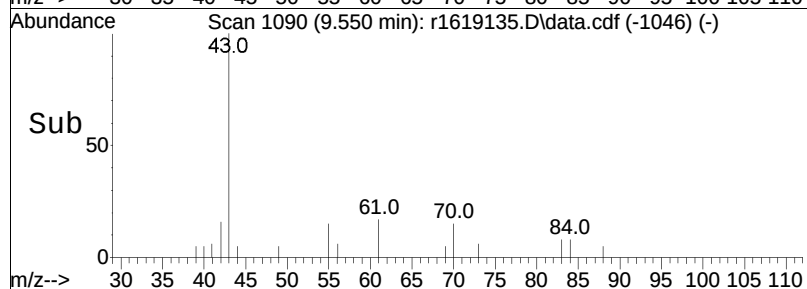
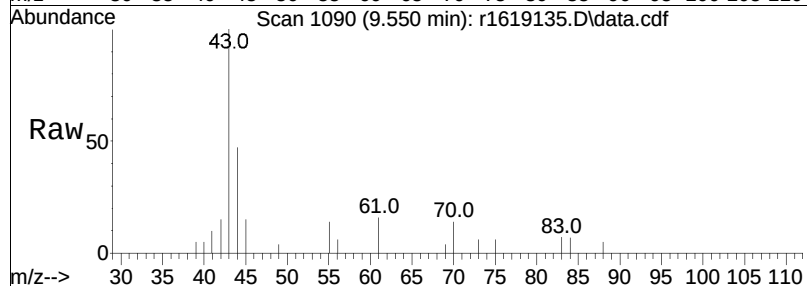
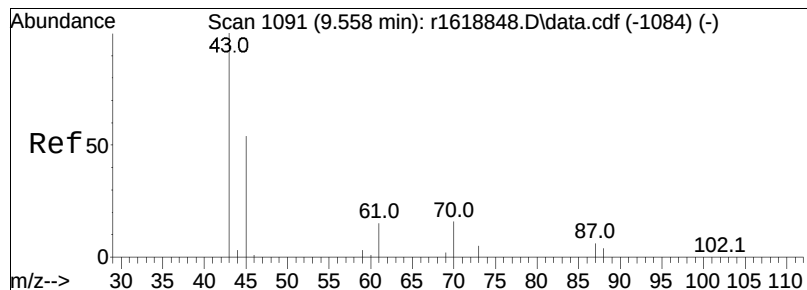




#36
 2-butanone
 Concen: 9.31 ppbV
 RT: 8.725 min Scan# 993
 Delta R.T. 0.025 min
 Lab File: r1619135.D
 Acq: 17 Sep 2020 2:45 AM

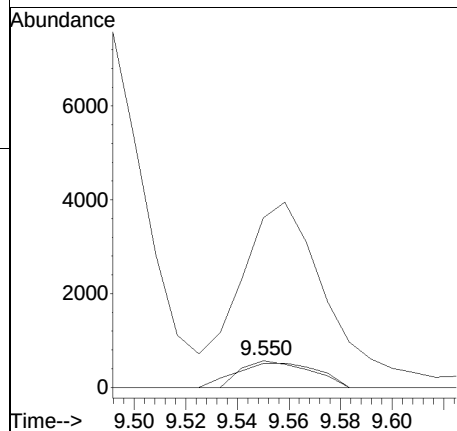
Tgt Ion:	43	Resp:	294771
Ion Ratio	Lower	Upper	
43	100		
72	25.5	19.8	29.6
57	6.2	4.6	6.8

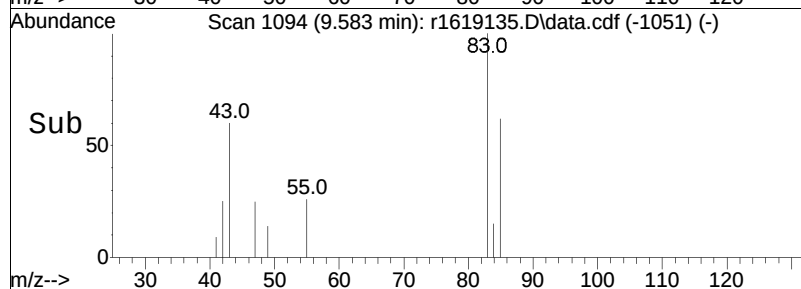
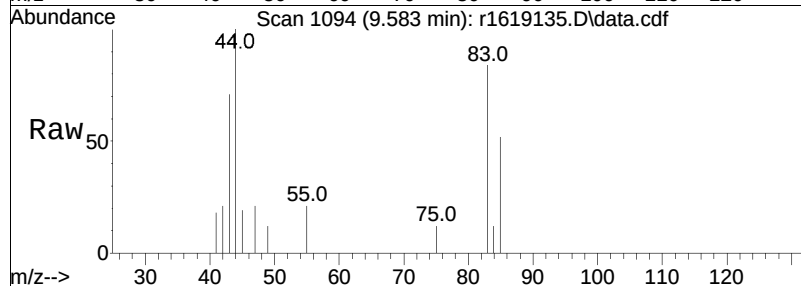
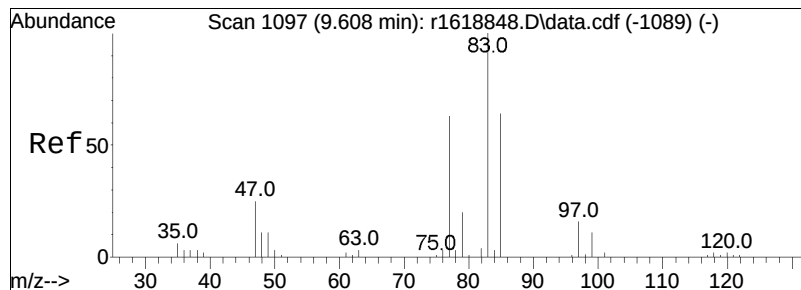




#38
Ethyl Acetate
Concen: 0.20 ppbV
RT: 9.550 min Scan# 1090
Delta R.T. 0.033 min
Lab File: r1619135.D
Acq: 17 Sep 2020 2:45 AM

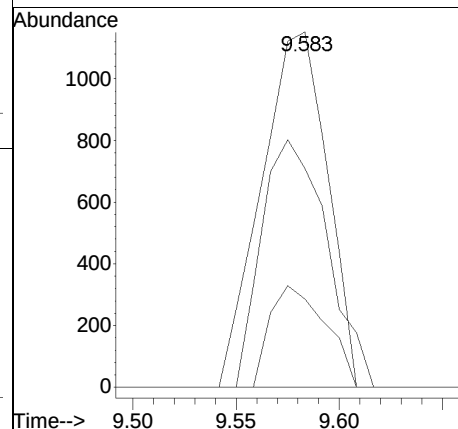
Tgt	Ion	Resp	Lower	Upper
61	100			
70	89.8	85.0	127.4	
43	635.3	747.0	1120.6#	

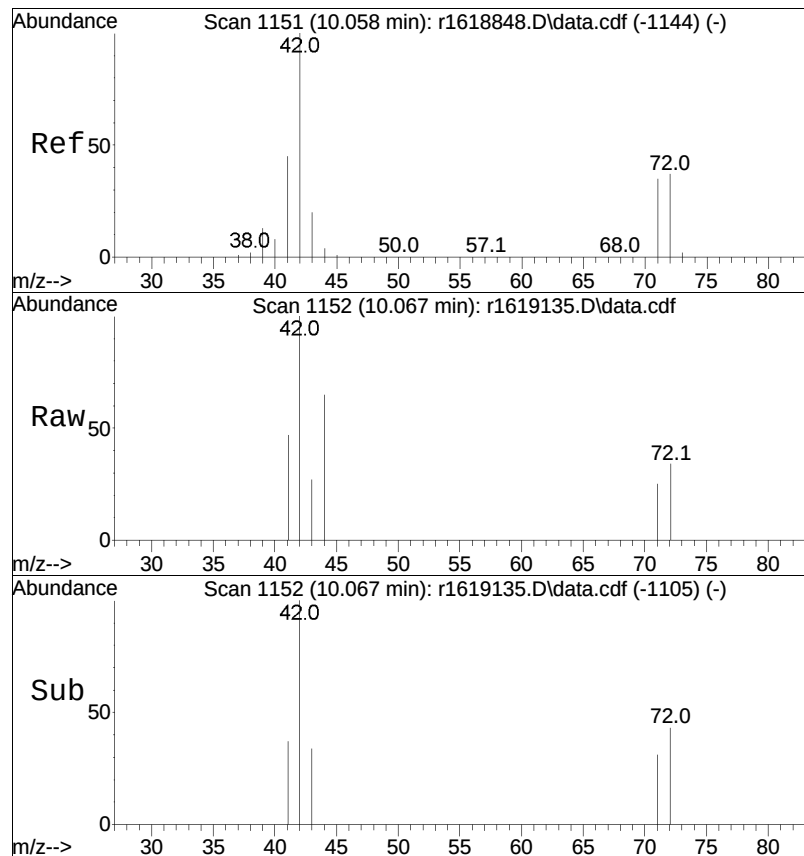




#39
chloroform
Concen: 0.11 ppbV
RT: 9.583 min Scan# 1094
Delta R.T. 0.025 min
Lab File: r1619135.D
Acq: 17 Sep 2020 2:45 AM

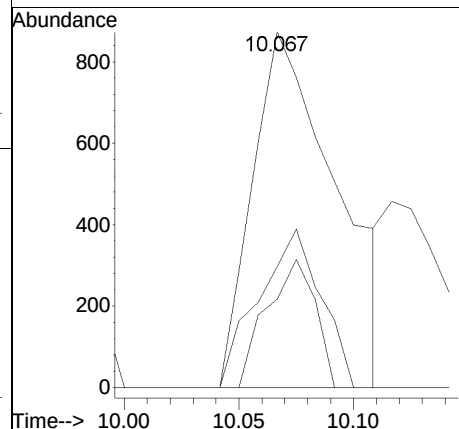
Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.6	51.5	77.3
47	24.8	20.1	30.1

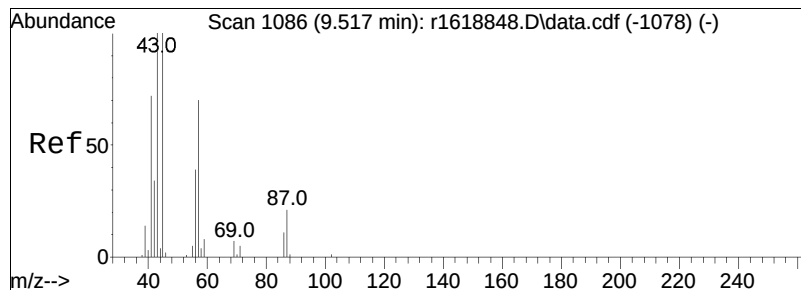




#40
Tetrahydrofuran
Concen: 0.10 ppbV
RT: 10.067 min Scan# 1152
Delta R.T. 0.058 min
Lab File: r1619135.D
Acq: 17 Sep 2020 2:45 AM

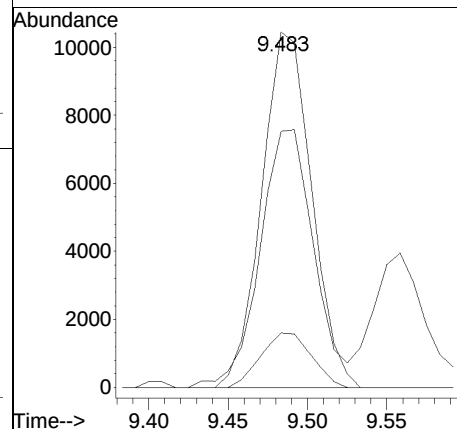
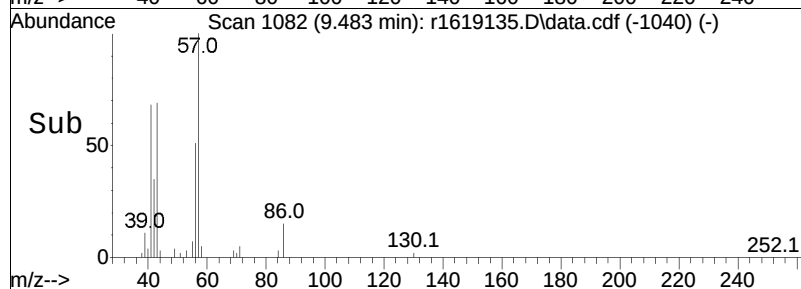
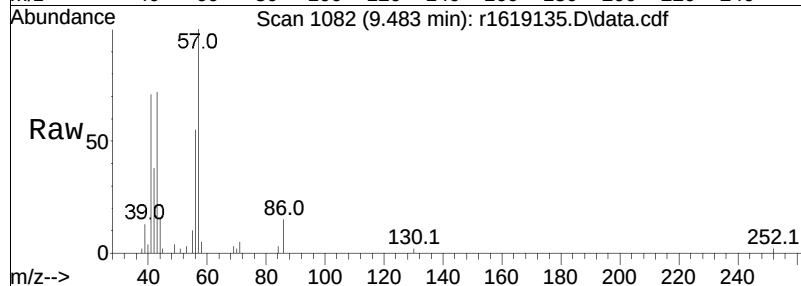
Tgt Ion:	42	Resp:	2217
Ion Ratio	Lower	Upper	
42	100		
71	24.9	28.2	42.2#
72	34.0	29.9	44.9

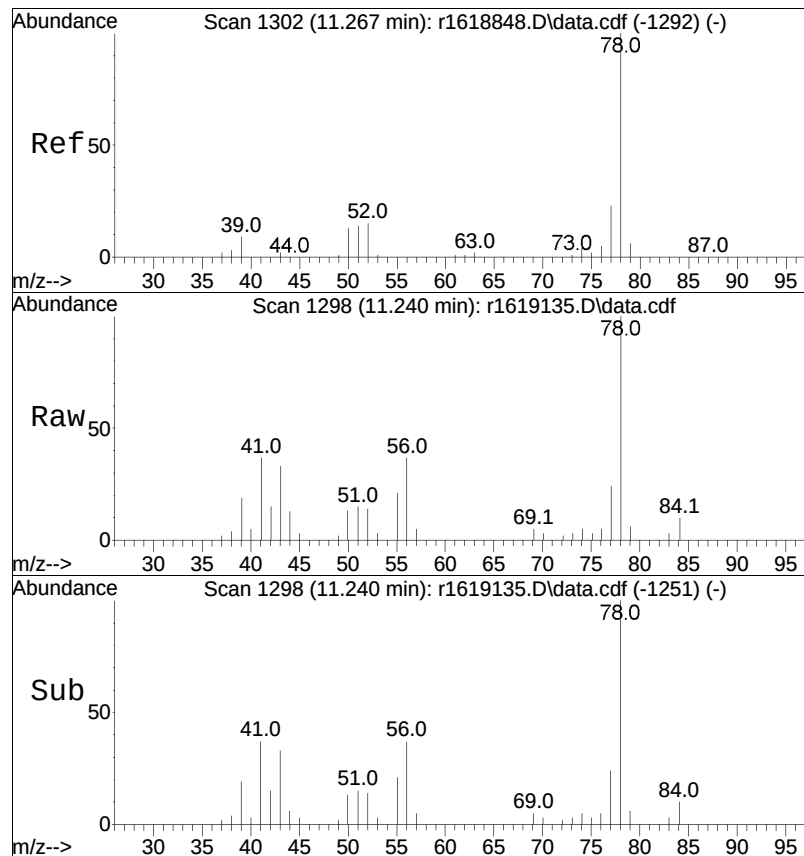




#44
hexane
Concen: 0.85 ppbV
RT: 9.483 min Scan# 1082
Delta R.T. 0.017 min
Lab File: r1619135.D
Acq: 17 Sep 2020 2:45 AM

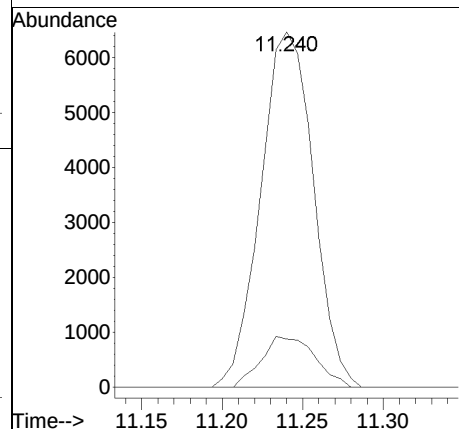
Tgt Ion	Ratio	Lower	Upper
57	100		
43	72.1	114.4	171.6#
86	15.3	12.6	18.8

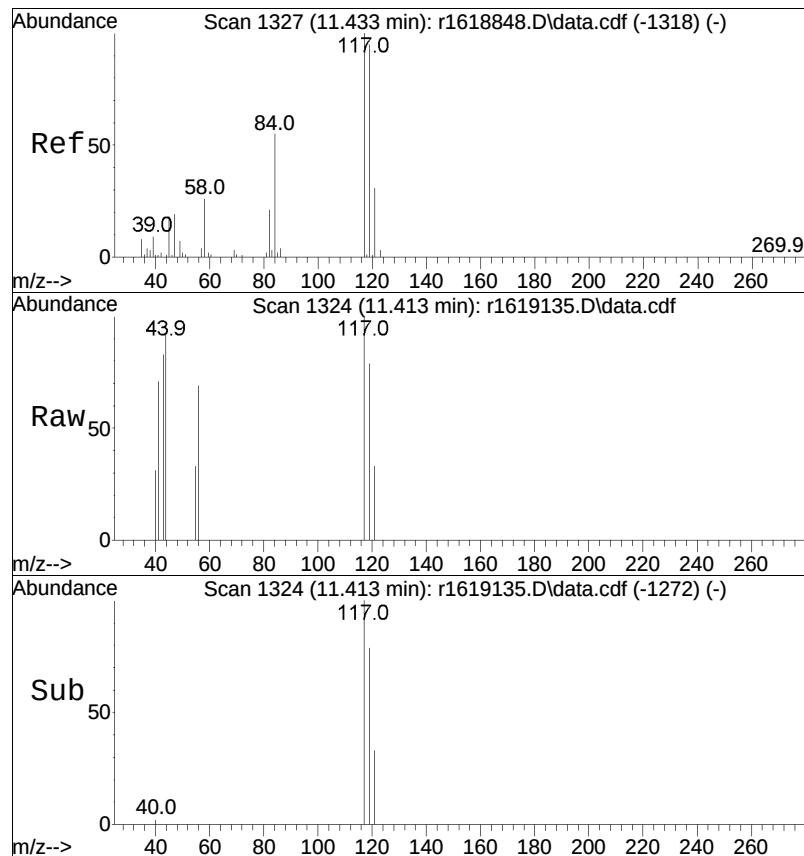




#50
benzene
Concen: 0.25 ppbV
RT: 11.240 min Scan# 1298
Delta R.T. 0.020 min
Lab File: r1619135.D
Acq: 17 Sep 2020 2:45 AM

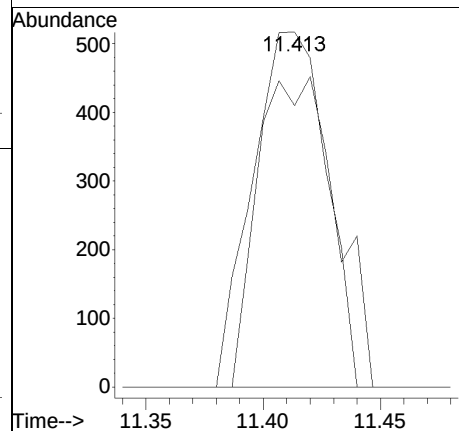
Tgt	Ion	Resp	Lower	Upper
78	100	14739		
52	13.6		11.8	17.6

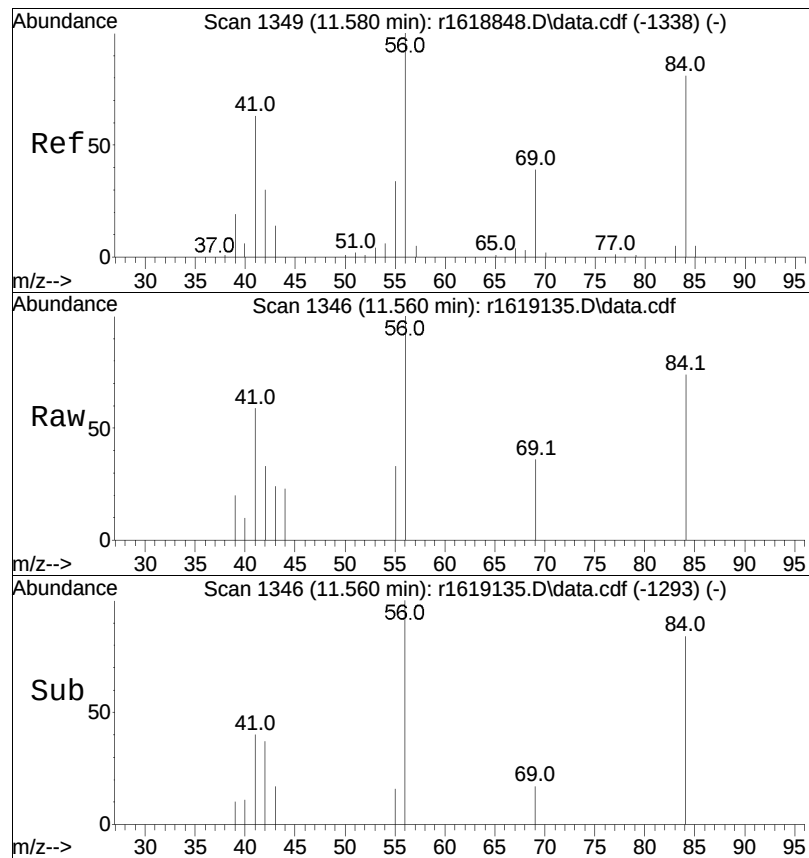




#52
 carbon tetrachloride
 Concen: 0.05 ppbV
 RT: 11.413 min Scan# 1324
 Delta R.T. 0.020 min
 Lab File: r1619135.D
 Acq: 17 Sep 2020 2:45 AM

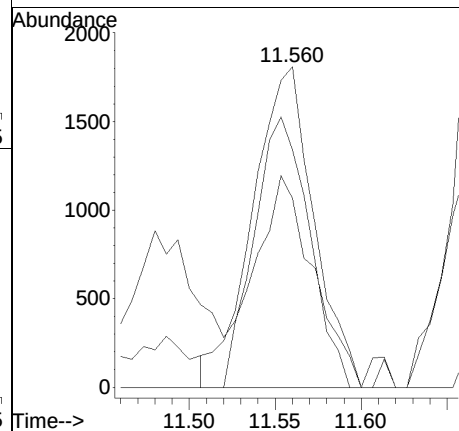
Tgt Ion	Ratio	Lower	Upper
117	100		
119	79.3	75.8	113.8
82	0.0	16.5	24.7#

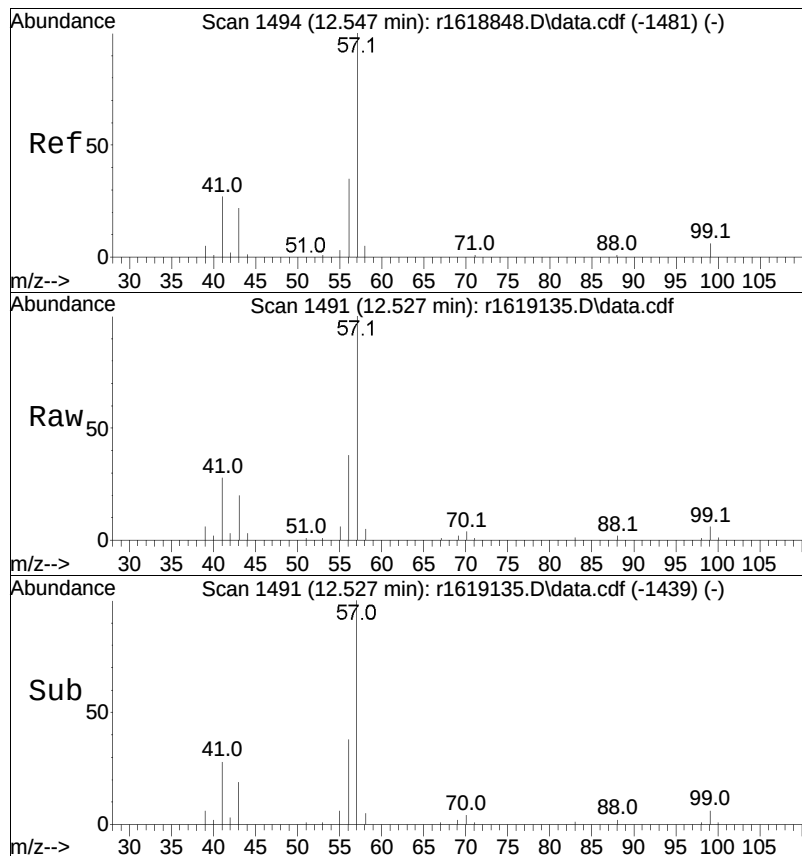




#53
cyclohexane
Concen: 0.15 ppbV
RT: 11.560 min Scan# 1346
Delta R.T. 0.027 min
Lab File: r1619135.D
Acq: 17 Sep 2020 2:45 AM

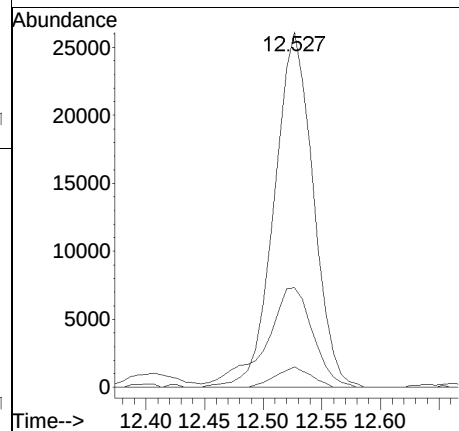
Tgt	Ion:	56	Resp:	4486
Ion	Ratio	Lower	Upper	
56	100			
84	74.0	64.6	96.8	
41	58.9	50.5	75.7	

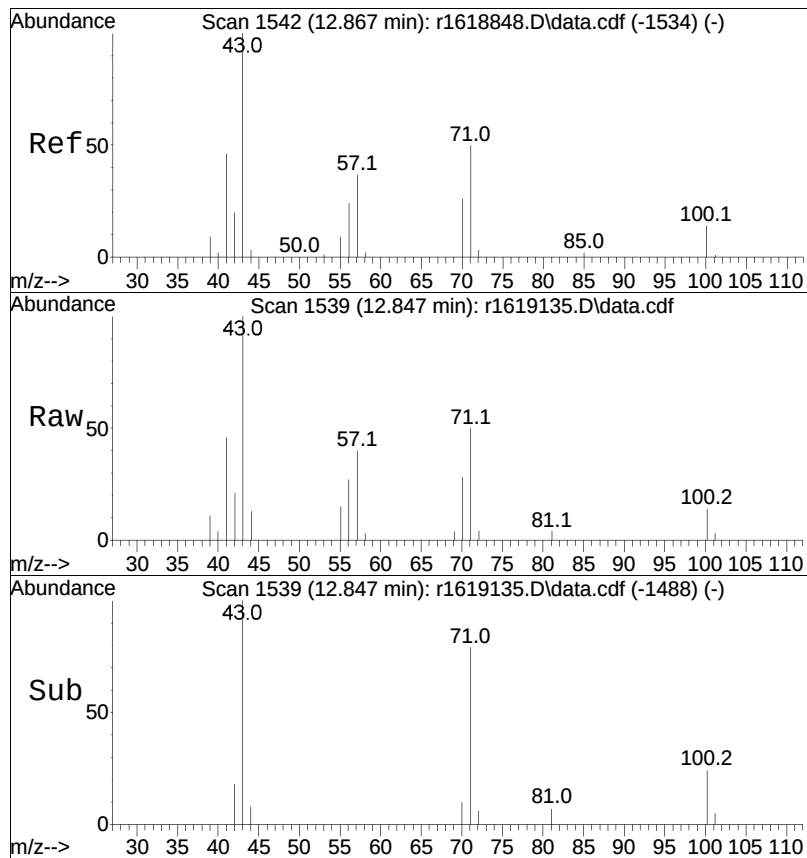




#60
 2,2,4-trimethylpentane
 Concen: 0.66 ppbV
 RT: 12.527 min Scan# 1491
 Delta R.T. 0.020 min
 Lab File: r1619135.D
 Acq: 17 Sep 2020 2:45 AM

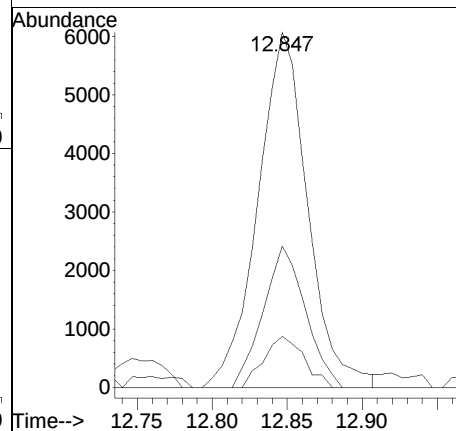
Tgt	Ion	Ratio	Lower	Upper
57	100			
99	5.7	4.9	7.3	
41	28.1	21.9	32.9	

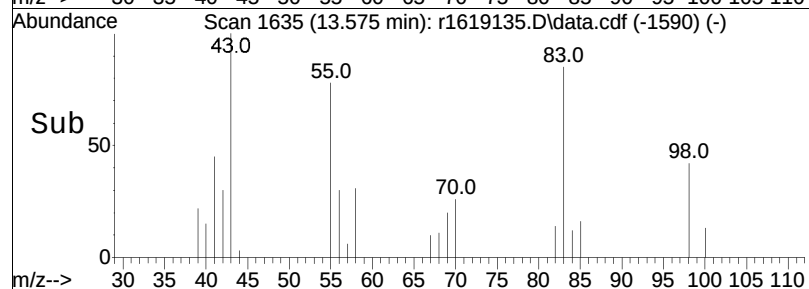
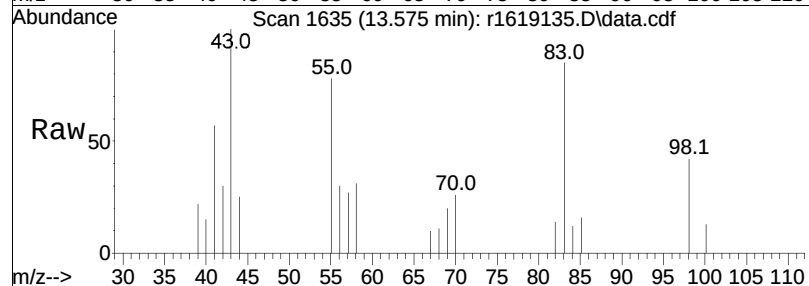
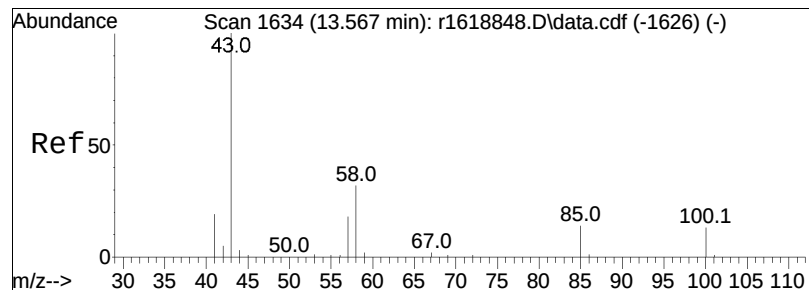




#62
 heptane
 Concen: 0.31 ppbV m
 RT: 12.847 min Scan# 1539
 Delta R.T. 0.013 min
 Lab File: r1619135.D
 Acq: 17 Sep 2020 2:45 AM

Tgt	Ion: 43	Resp:	14020
Ion	Ratio	Lower	Upper
43	100		
57	39.8	29.9	44.9
100	14.4	11.5	17.3





#64

4-methyl-2-pentanone

Concen: 0.09 ppbV

RT: 13.575 min Scan# 1635

Delta R.T. 0.042 min

Lab File: r1619135.D

Acq: 17 Sep 2020 2:45 AM

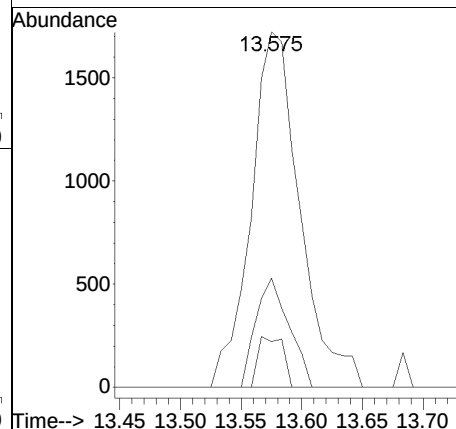
Tgt Ion: 43 Resp: 4842

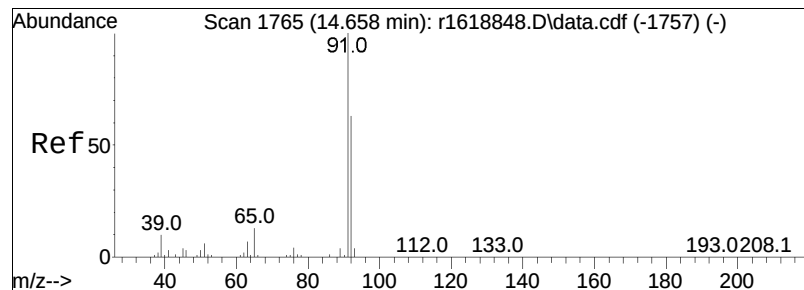
Ion Ratio Lower Upper

43 100

58 30.7 25.3 37.9

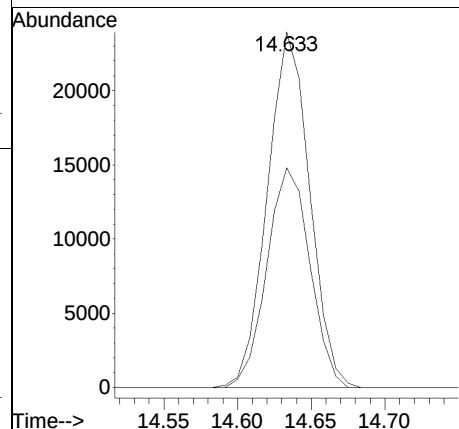
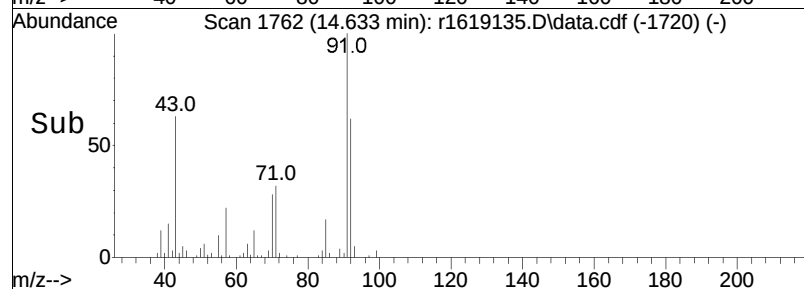
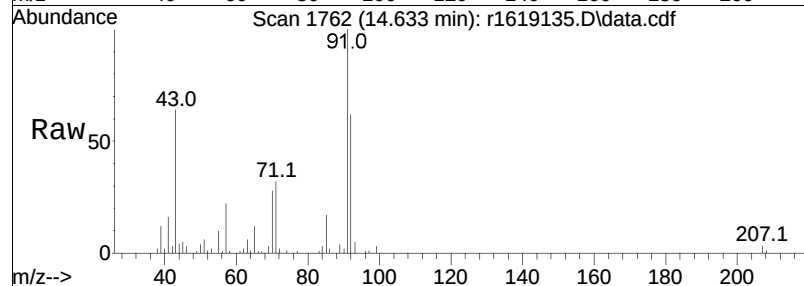
100 12.9 10.2 15.2

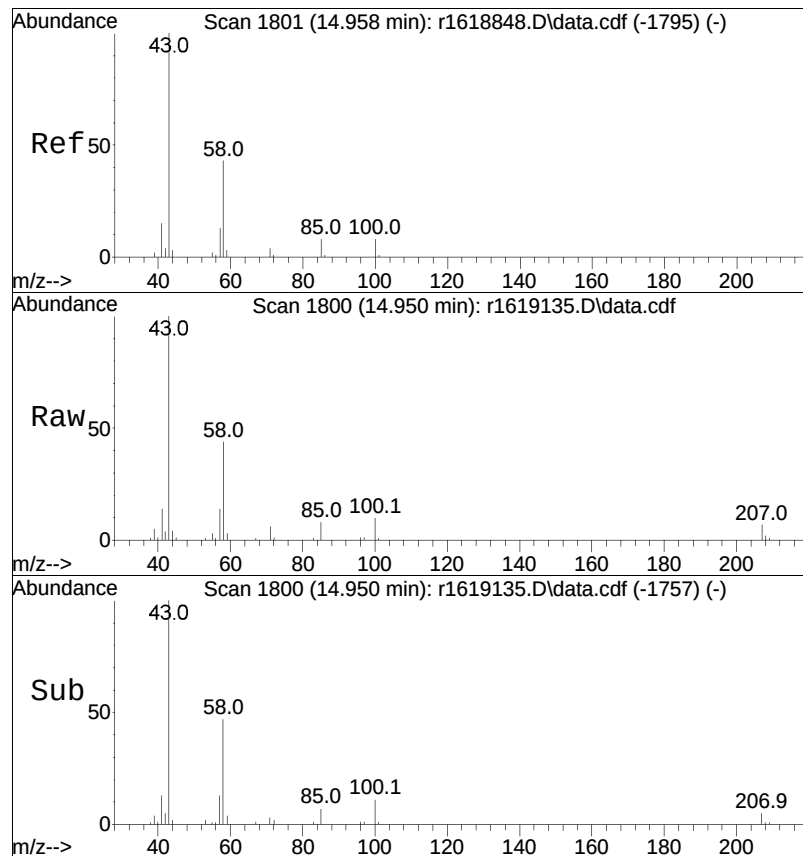




#68
toluene
Concen: 0.75 ppbV
RT: 14.633 min Scan# 1762
Delta R.T. 0.017 min
Lab File: r1619135.D
Acq: 17 Sep 2020 2:45 AM

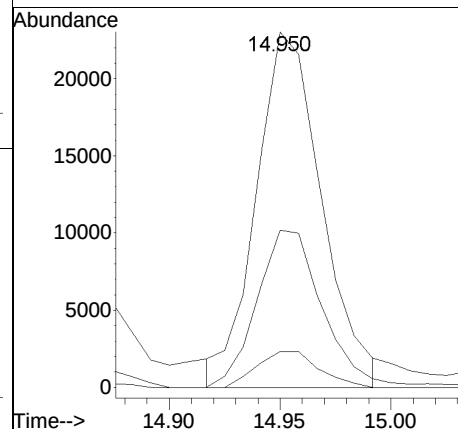
Tgt	Ion	Ratio	Lower	Upper
91	100			
92	61.7	50.6	75.8	

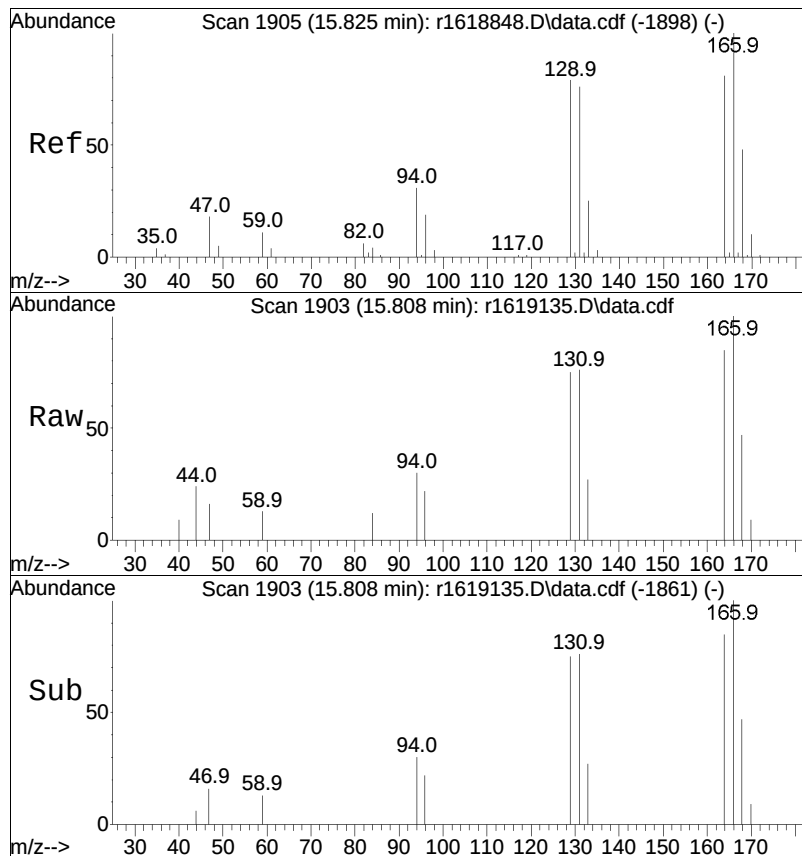




#72
 2-hexanone
 Concen: 1.05 ppbV m
 RT: 14.950 min Scan# 1800
 Delta R.T. 0.025 min
 Lab File: r1619135.D
 Acq: 17 Sep 2020 2:45 AM

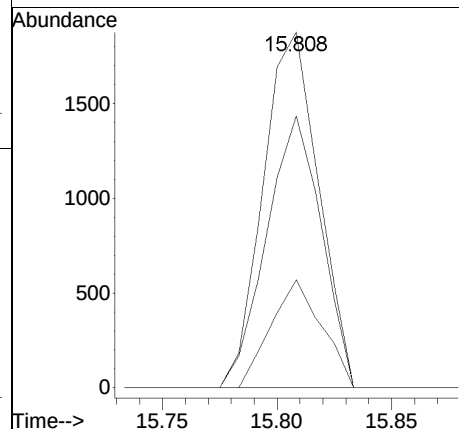
Tgt Ion:	43	Resp:	47290
Ion Ratio	Lower	Upper	
43	100		
58	44.3	35.8	53.8
100	10.1	8.0	12.0

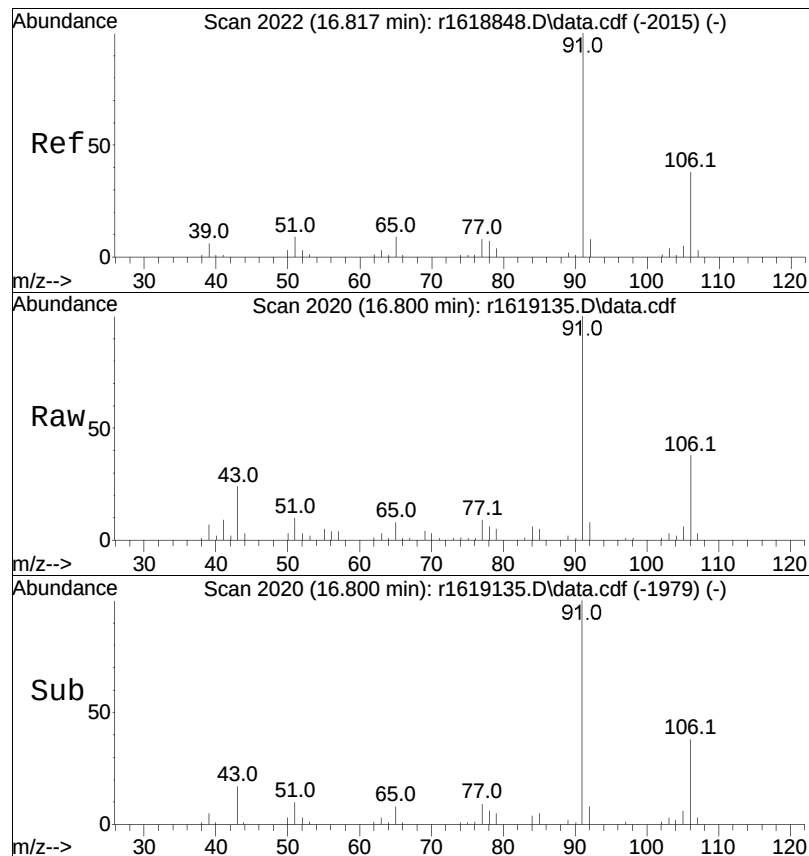




#78
 tetrachloroethene
 Concen: 0.11 ppbV
 RT: 15.808 min Scan# 1903
 Delta R.T. 0.017 min
 Lab File: r1619135.D
 Acq: 17 Sep 2020 2:45 AM

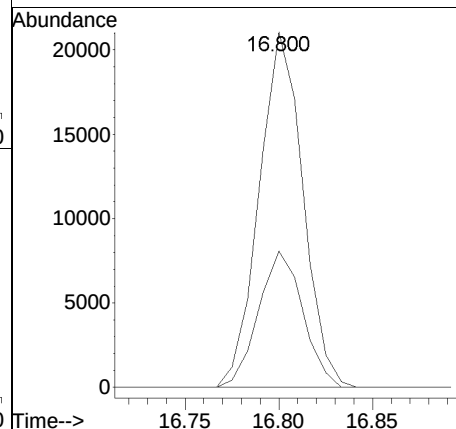
Tgt	Ion:166	Resp:	3163
Ion	Ratio	Lower	Upper
166	100		
131	76.4	61.0	91.6
94	30.3	24.6	37.0

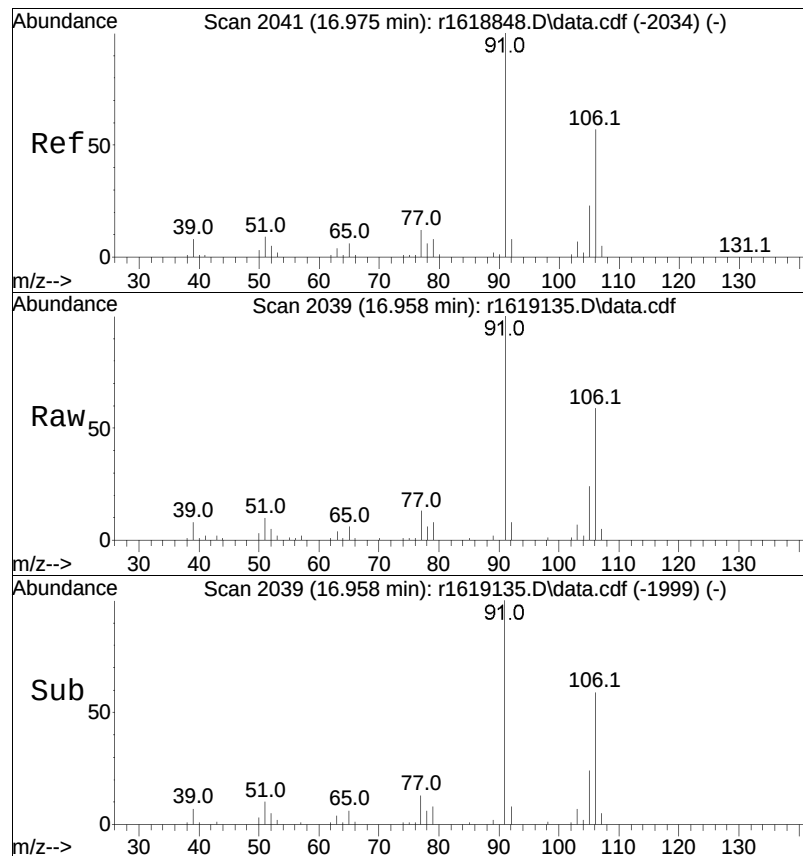




#81
ethylbenzene
Concen: 0.42 ppbV
RT: 16.800 min Scan# 2020
Delta R.T. 0.008 min
Lab File: r1619135.D
Acq: 17 Sep 2020 2:45 AM

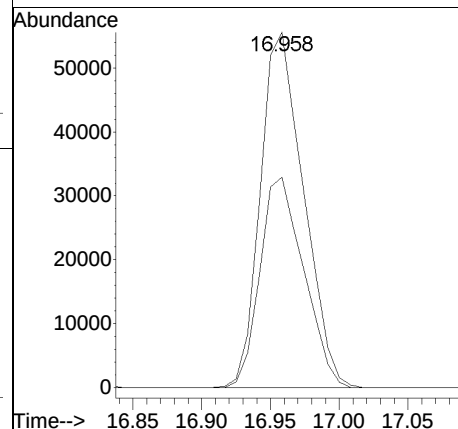
Tgt	Ion	Resp	Lower	Upper
91	100	34166		
106	38.4	30.3	45.5	

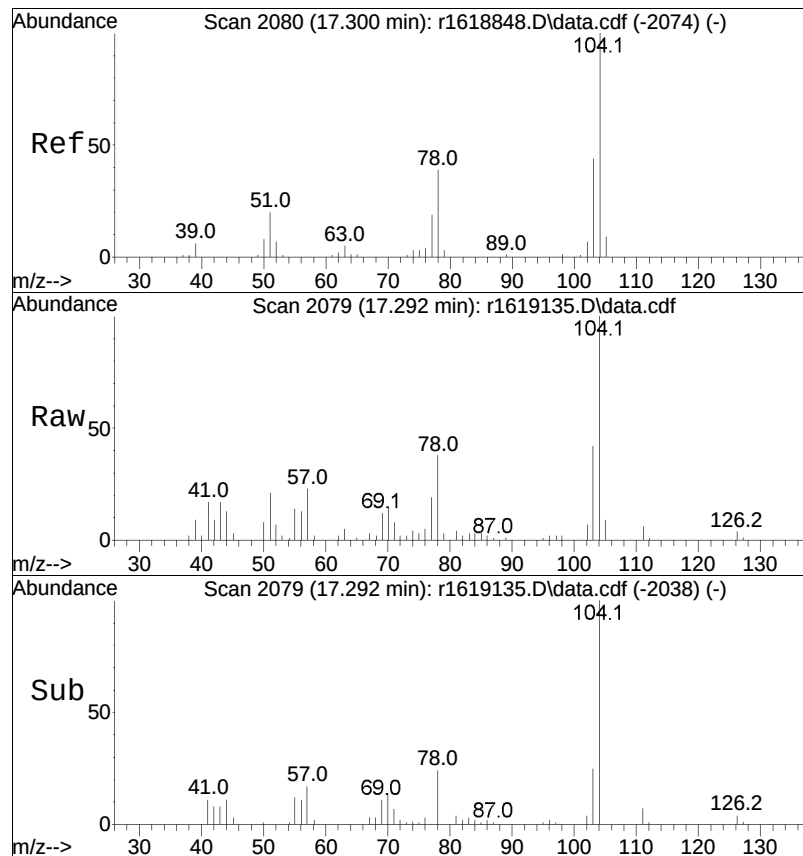




#83
 m+p-xylene
 Concen: 1.86 ppbV
 RT: 16.958 min Scan# 2039
 Delta R.T. 0.000 min
 Lab File: r1619135.D
 Acq: 17 Sep 2020 2:45 AM

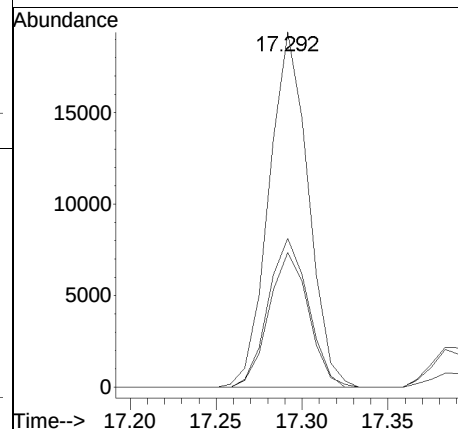
Tgt	Ion	Resp	Lower	Upper
91	100	121336		
106	59.2	45.2	67.8	

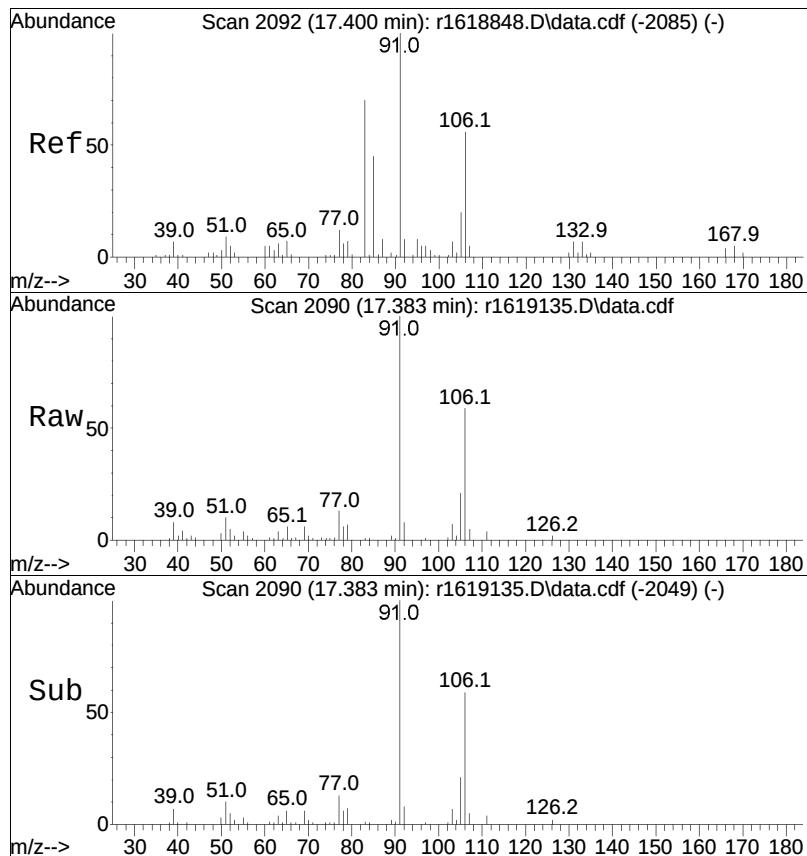




#85
styrene
Concen: 0.56 ppbV
RT: 17.292 min Scan# 2079
Delta R.T. 0.008 min
Lab File: r1619135.D
Acq: 17 Sep 2020 2:45 AM

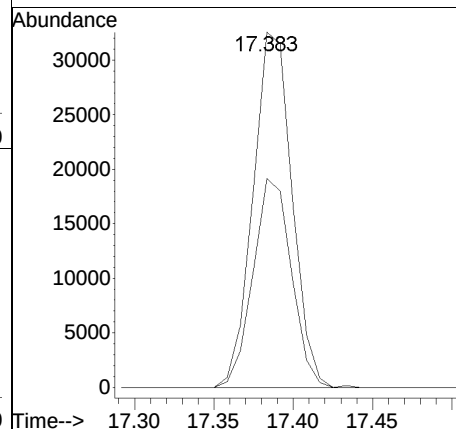
Tgt	Ion	Ratio	Lower	Upper
104	100			
103	41.9	35.3	52.9	
78	38.0	31.5	47.3	

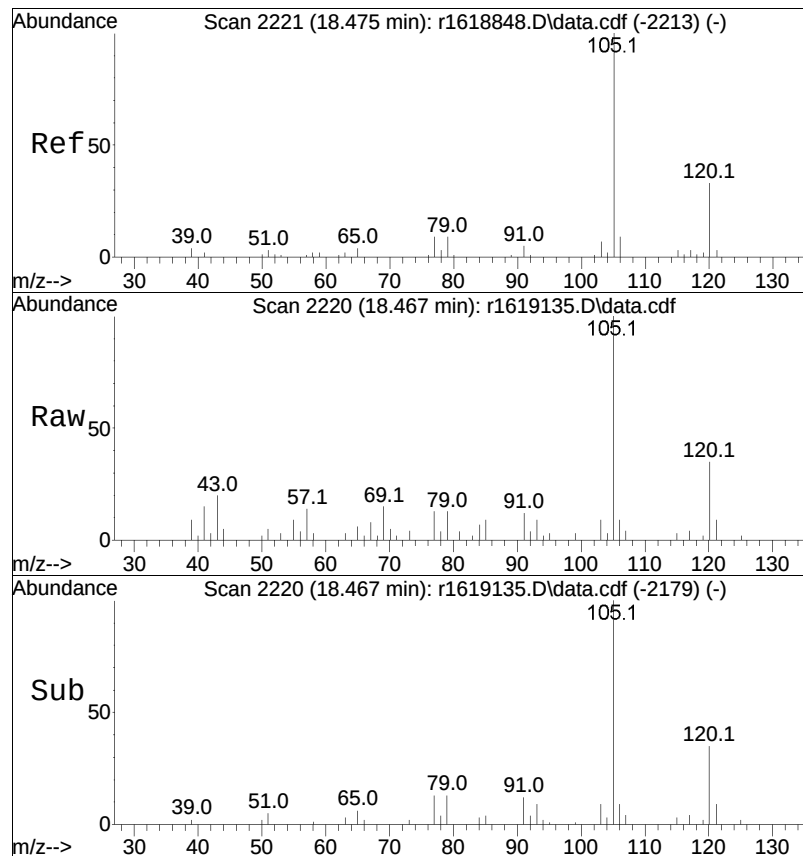




#87
 o-xylene
 Concen: 0.85 ppbV
 RT: 17.383 min Scan# 2090
 Delta R.T. 0.008 min
 Lab File: r1619135.D
 Acq: 17 Sep 2020 2:45 AM

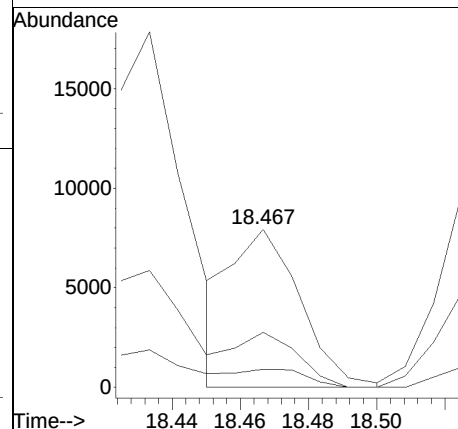
Tgt Ion	Ratio	Lower	Upper
91	100		
106	58.8	44.6	66.8

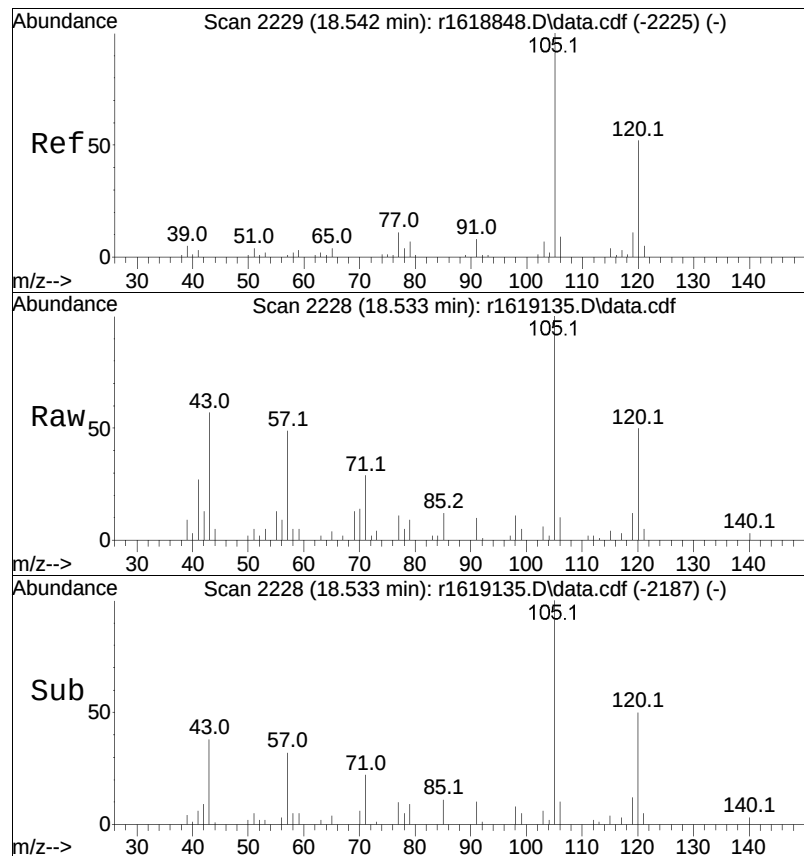




#96
 4-ethyl toluene
 Concen: 0.11 ppbV m
 RT: 18.467 min Scan# 2220
 Delta R.T. 0.008 min
 Lab File: r1619135.D
 Acq: 17 Sep 2020 2:45 AM

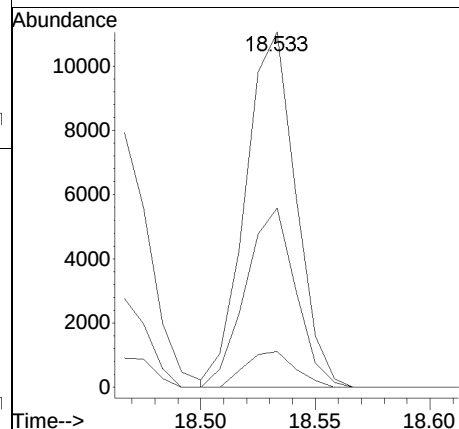
Tgt Ion	Ratio	Lower	Upper
105	100		
120	34.9	26.4	39.6
91	11.5	7.2	10.8

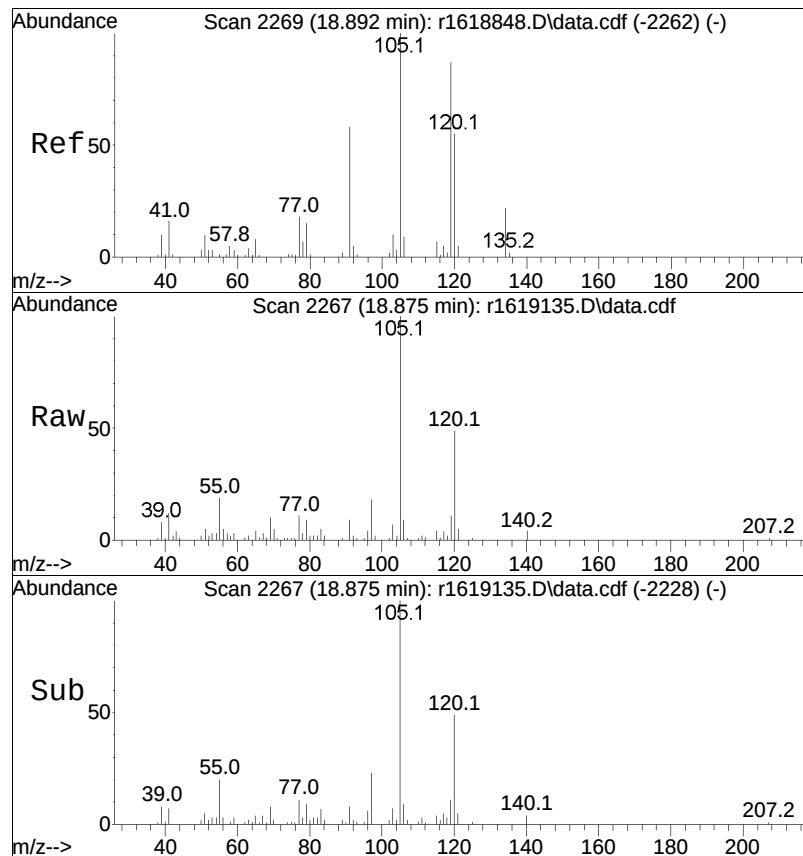




#97
 1,3,5-trimethylbenzene
 Concen: 0.20 ppbV
 RT: 18.533 min Scan# 2228
 Delta R.T. 0.008 min
 Lab File: r1619135.D
 Acq: 17 Sep 2020 2:45 AM

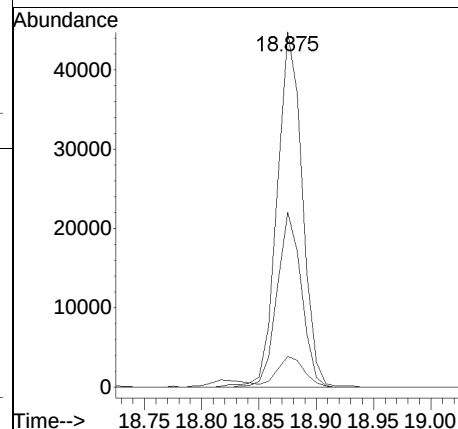
Tgt Ion	Ratio	Lower	Upper
105	100		
120	50.5	41.2	61.8
91	10.1	6.7	10.1#





#99
 1,2,4-trimethylbenzene
 Concen: 0.88 ppbV
 RT: 18.875 min Scan# 2267
 Delta R.T. 0.008 min
 Lab File: r1619135.D
 Acq: 17 Sep 2020 2:45 AM

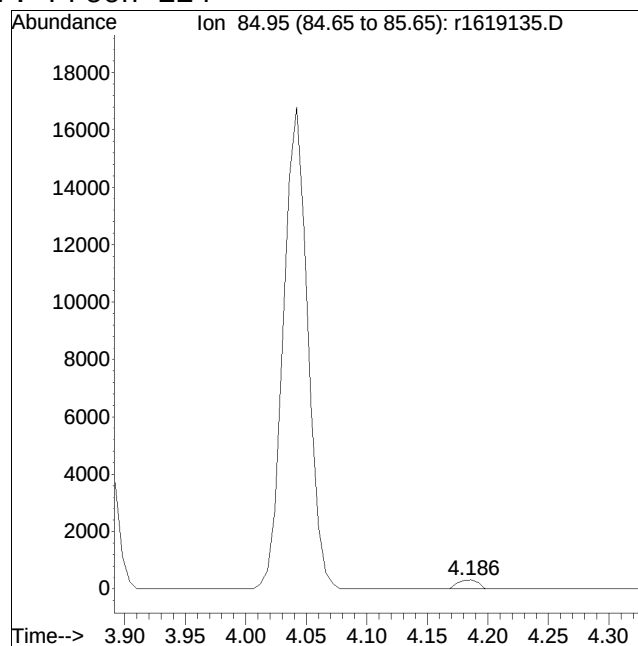
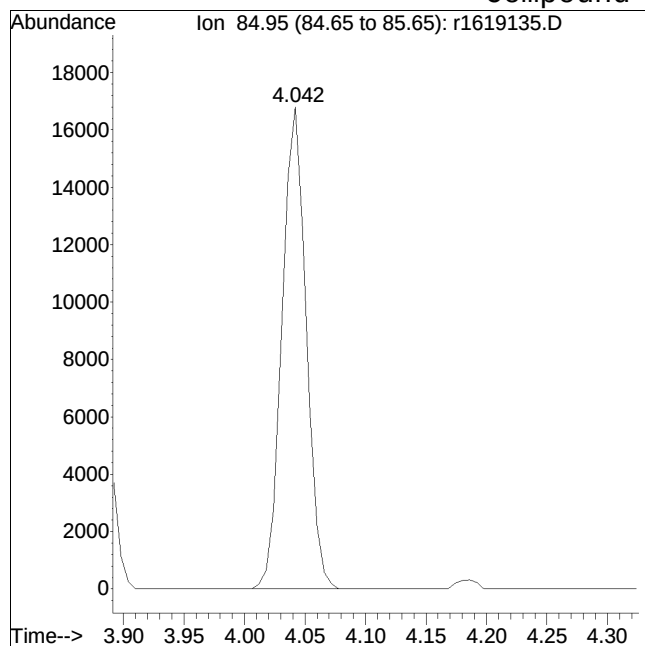
Tgt Ion:	105	Resp:	68632
Ion Ratio	Lower	Upper	
105	100		
120	49.3	44.0	66.0
91	8.7	46.2	69.4#



Manual Integration Report

Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619135.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:2: 5 Instrument :
Sample : L2037647-10,3,250,250 Quant Date : 9/17/2020 5:45 am

Compound #7: Freon-114



Original Peak Response = 23377

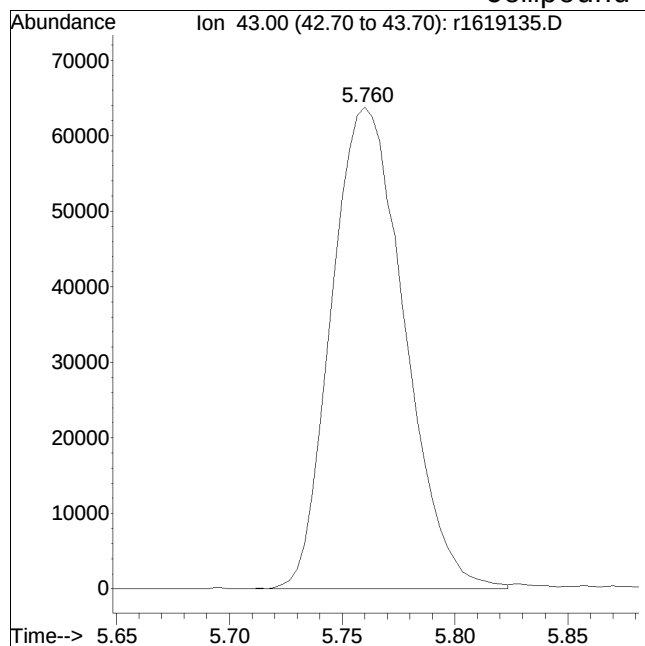
Manual Peak Response = 375 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

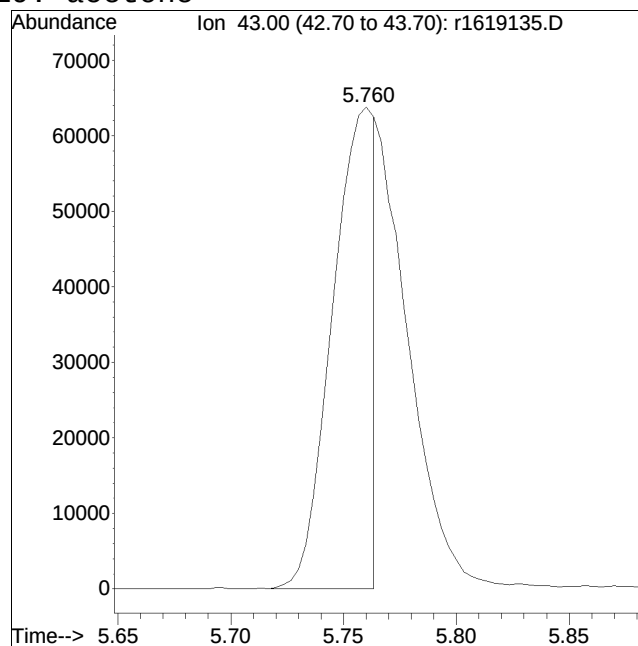
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619135.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:2: 5 Instrument :
Sample : L2037647-10,3,250,250 Quant Date : 9/17/2020 5:45 am

Compound #19: acetone



Original Peak Response = 143696

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

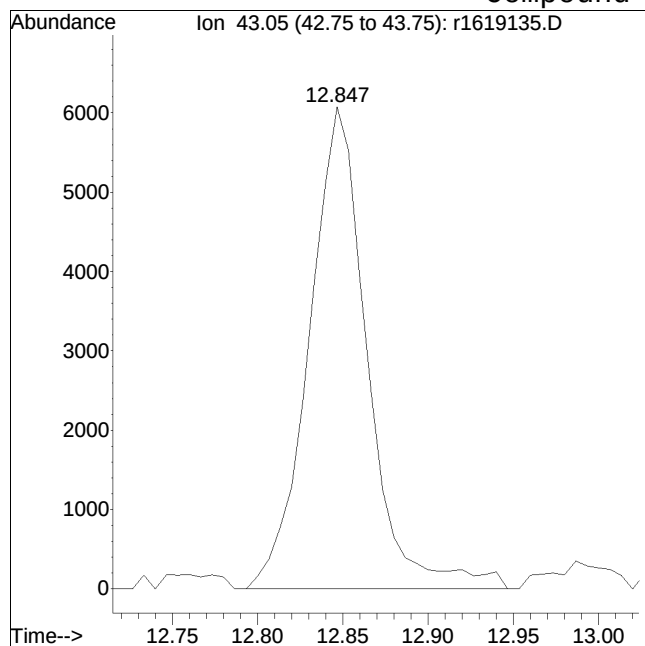


Manual Peak Response = 83418 M6

Manual Integration Report

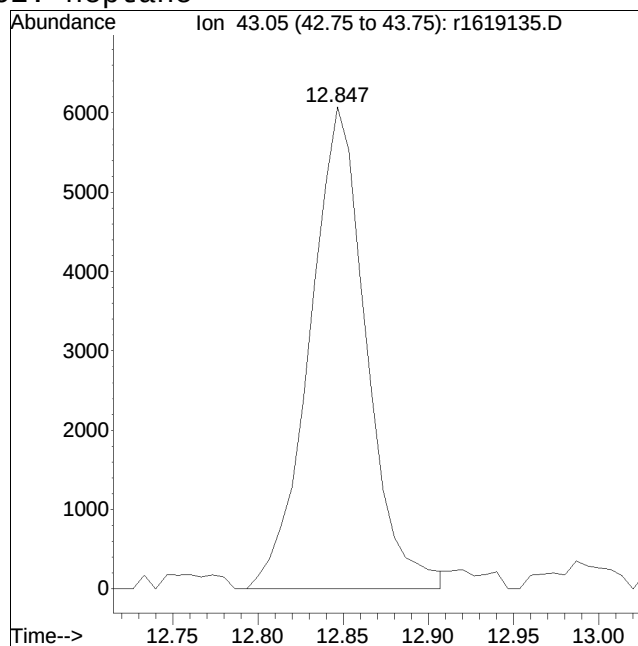
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619135.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:2: 5 Instrument :
Sample : L2037647-10,3,250,250 Quant Date : 9/17/2020 5:45 am

Compound #62: heptane



Original Peak Response = 14435

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

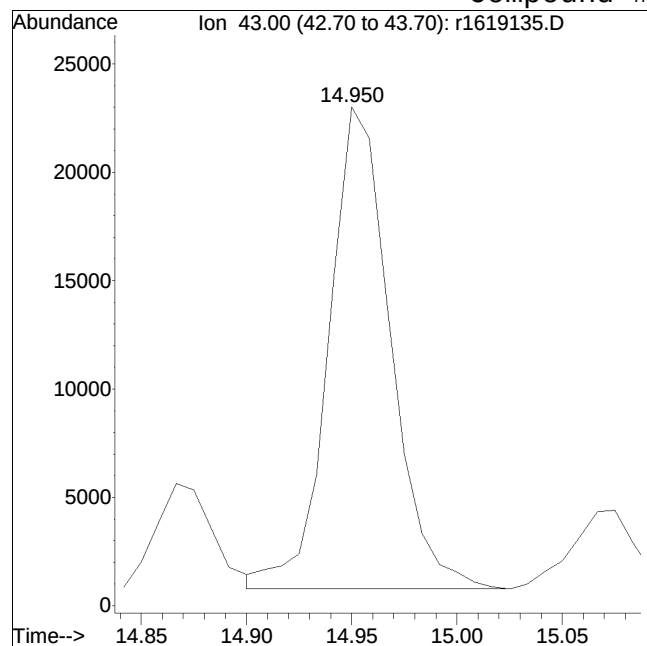


Manual Peak Response = 14020 M6

Manual Integration Report

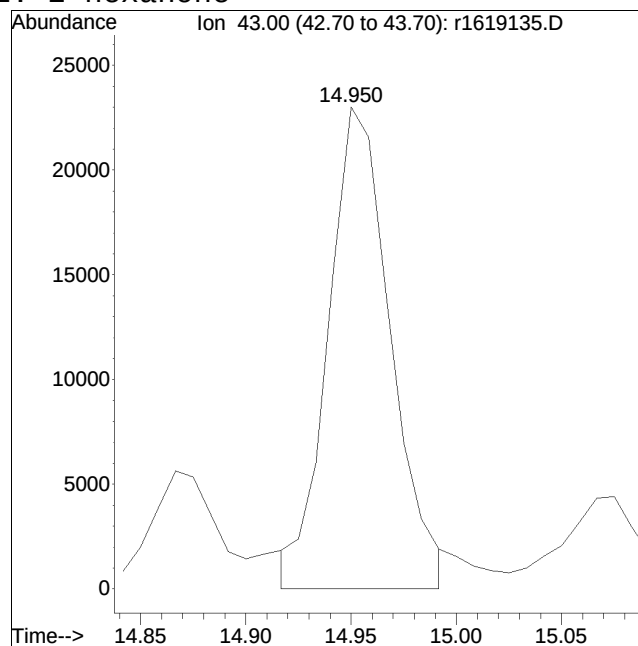
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619135.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:2: 5 Instrument :
Sample : L2037647-10,3,250,250 Quant Date : 9/17/2020 5:45 am

Compound #72: 2-hexanone



Original Peak Response = 45384

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

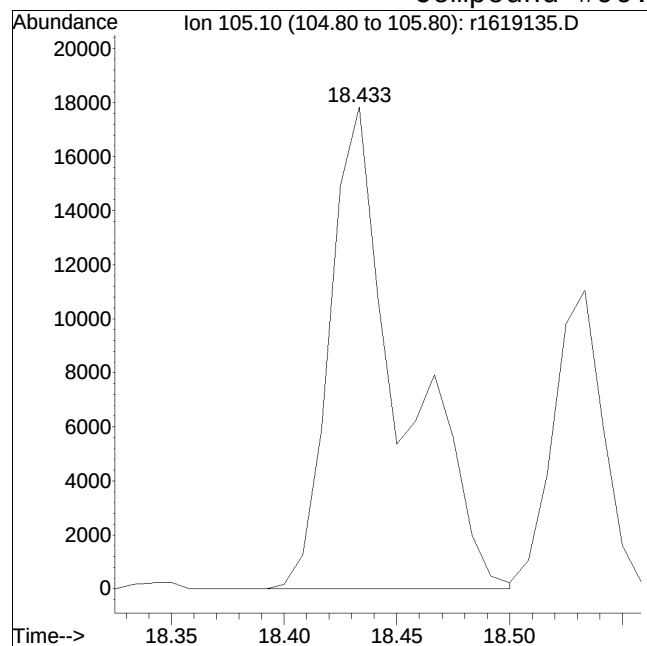


Manual Peak Response = 47290 M6

Manual Integration Report

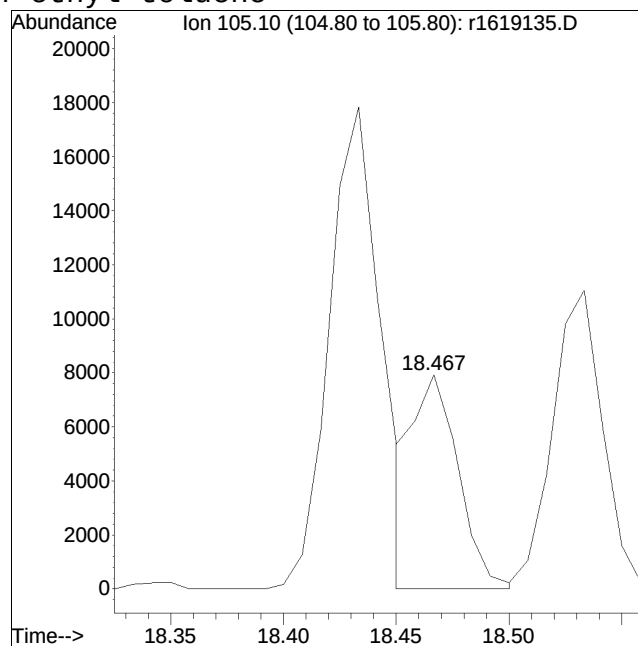
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619135.D Operator : AIRLAB16:TS
Date Inj'd : 9/17/2020 0:2: 5 Instrument :
Sample : L2037647-10,3,250,250 Quant Date : 9/17/2020 5:45 am

Compound #96: 4-ethyl toluene



Original Peak Response = 39341

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 11227 M6

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Air Volatiles

Client : Langan Engineering & Environmental
Project Name : 160 EAST 125TH STREET
Instrument ID : AIRLAB16
Calibration dates : 09/02/20 17:22 09/02/20 22:06
Lab Number : L2037647
Project Number : 100433203
Ical Ref : ICAL17102

Calibration Files

0.2 =r1618844.D 0.5 =r1618845.D 1.0 =r1618846.D 5.0 =r1618847.D 10 =r1618848.D 20 =r1618849.D
 50 =r1618850.D 100 =r1618851.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1) I bromochloromethane	-----ISTD-----									
2) chlorodifluoromethane	0.970	0.936	0.930	0.816	0.800	0.740	0.724	0.733	0.8312	12.09
3) propylene		0.620	0.607	0.538	0.502	0.463	0.416	0.422	0.5099	16.26
4) propane		0.646	0.656	0.562	0.552	0.520	0.508	0.520	0.5663	10.78
5) dichlorodifluoromethane	1.164	1.128	1.095	0.964	0.895	0.810	0.767	0.761	0.9480	17.41
6) C chloromethane	0.705	0.676	0.676	0.592	0.572	0.541	0.517	0.525	0.6004	12.53
7) Freon-114	1.625	1.583	1.559	1.365	1.314	1.212	1.118	1.051	1.3533	16.22
8) C methanol			0.251	0.218	0.215	0.192	0.188	0.193	0.2096	11.32
9) C vinyl chloride	0.646	0.613	0.624	0.546	0.521	0.481	0.454	0.458	0.5430	14.16
10) C 1,3-butadiene	0.540	0.516	0.518	0.464	0.458	0.433	0.421	0.433	0.4729	9.65
11) butane	1.323	1.209	1.176	1.018	0.960	0.865	0.781	0.751	1.0105	20.75
12) C acetaldehyde		0.407	0.372	0.304	0.292	0.271	0.252	0.243	0.3058	20.22
13) C bromomethane	0.578	0.563	0.562	0.499	0.484	0.442	0.416	0.415	0.4949	13.60
14) C chloroethane	0.322	0.327	0.328	0.288	0.275	0.251	0.234	0.234	0.2824	14.26
15) ethanol			0.456	0.415	0.369	0.317	0.308	0.286	0.3586	18.62
16) dichlorofluoromethane	1.250	1.186	1.165	1.031	0.981	0.898	0.799	0.720	1.0039	19.01
17) C vinyl bromide	0.638	0.615	0.611	0.543	0.529	0.491	0.446	0.434	0.5381	14.55
18) C acrolein		0.280	0.278	0.232	0.231	0.219	0.215	0.227	0.2403	11.28
19) acetone	1.119	1.053	1.055	0.910	0.861	0.746	0.628	0.569	0.8676	23.70
20) C acetonitrile	0.689	0.593	0.584	0.514	0.492	0.448	0.402	0.389	0.5139	20.10
21) trichlorofluoromethane	0.940	0.901	0.898	0.796	0.758	0.681	0.597	0.580	0.7689	18.23
22) isopropyl alcohol	1.348	1.288	1.246	1.129	1.104	0.992	0.867	0.809	1.0979	17.89
23) C acrylonitrile	0.545	0.519	0.520	0.449	0.455	0.433	0.421	0.433	0.4719	10.27
24) pentane	1.382	1.232	1.174	1.061	1.044	0.949	0.840	0.789	1.0588	18.92
25) ethyl ether	0.996	0.923	0.888	0.799	0.985	0.907	0.914	0.954	0.9207	6.74
26) C 1,1-dichloroethene	0.777	0.763	0.751	0.664	0.648	0.602	0.547	0.537	0.6612	14.46
27) tertiary butyl alcohol		0.913	0.884	0.836	0.811	0.753	0.699	0.697	0.7990	10.76
28) C methylene chloride		0.823	0.808	0.706	0.700	0.658	0.614	0.594	0.7004	12.65
29) C 3-chloropropene	0.995	0.905	0.901	0.786	0.773	0.723	0.643	0.603	0.7912	17.19
30) C carbon disulfide	2.104	1.990	2.001	1.839	1.844	1.750	1.608	1.503	1.8297	11.17
31) Freon 113	1.248	1.220	1.198	1.074	1.049	0.980	0.874	0.821	1.0581	15.09
32) trans-1,2-dichloroethene	0.903	0.843	0.838	0.751	0.735	0.696	0.641	0.611	0.7523	13.65
33) C 1,1-dichloroethane	1.081	1.060	1.041	0.930	0.915	0.866	0.790	0.735	0.9271	13.77
34) C MTBE	1.765	1.655	1.656	1.476	1.465	1.376	1.258	1.156	1.4759	14.22
35) C vinyl acetate			1.654	1.501	1.502	1.429	1.301	1.164	1.4253	12.08
36) C 2-butanone		1.597	1.607	1.420	1.394	1.306	1.184	1.065	1.3676	14.70



Initial Calibration Summary

Form 6

Air Volatiles

Client : Langan Engineering & Environmental
Project Name : 160 EAST 125TH STREET
Instrument ID : AIRLAB16
Calibration dates : 09/02/20 17:22 09/02/20 22:06
Lab Number : L2037647
Project Number : 100433203
Ical Ref : ICAL17102

Calibration Files

0.2 =r1618844.D 0.5 =r1618845.D 1.0 =r1618846.D 5.0 =r1618847.D 10 =r1618848.D 20 =r1618849.D
 50 =r1618850.D 100 =r1618851.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
37)	cis-1,2-dichloroethene	0.752	0.798	0.710	0.625	0.613	0.599	0.546	0.515	0.6448	15.44
38)	Ethyl Acetate		0.278	0.287	0.242	0.227	0.219	0.178	0.197	0.2326	17.20
39) C	chloroform	1.113	1.097	1.093	0.963	0.961	0.912	0.788	0.808	0.9670	13.23
40)	Tetrahydrofuran		1.110	1.084	0.983	0.982	0.929	0.886	0.803	0.9682	11.14
41)	2,2-dichloropropane	0.847	0.860	0.850	0.755	0.754	0.718	0.614	0.608	0.7507	13.44
42) C	1,2-dichloroethane	0.654	0.644	0.651	0.571	0.556	0.517	0.466	0.401	0.5576	16.63
43) I	1,4-difluorobenzene	-----ISTD-----									
44) C	hexane	0.410	0.403	0.392	0.331	0.332	0.335	0.264	0.258	0.3407	17.26
45)	diisopropyl ether	0.256	0.248	0.244	0.182	0.178	0.179	0.140	0.142	0.1960	23.97
46)	tert-butyl ethyl ether	0.703	0.690	0.683	0.600	0.589	0.575	0.491	0.450	0.5977	15.56
47) s	1,2-dichloroethane-D4	0.251	0.251	0.252	0.250	0.245	0.237	0.211	0.184	0.2353	10.56
48) C	1,1,1-trichloroethane	0.352	0.343	0.344	0.301	0.296	0.288	0.245	0.212	0.2976	16.81
49)	1,1-dichloropropene	0.359	0.355	0.349	0.312	0.311	0.312	0.283	0.262	0.3180	11.01
50) C	benzene	0.862	0.828	0.806	0.702	0.695	0.711	0.654	0.633	0.7365	11.48
51)	thiophene	0.437	0.437	0.431	0.380	0.378	0.383	0.350	0.343	0.3925	9.72
52) C	carbon tetrachloride	0.324	0.320	0.314	0.278	0.274	0.270	0.231	0.209	0.2775	15.07
53)	cyclohexane	0.420	0.413	0.411	0.360	0.357	0.354	0.320	0.315	0.3686	11.22
54)	tert-amyl methyl ether	0.728	0.715	0.712	0.625	0.623	0.626	0.559	0.517	0.6382	11.94
55)	dibromomethane	0.256	0.242	0.243	0.209	0.208	0.203	0.174	0.159	0.2119	16.08
56) C	1,2-dichloropropane	0.308	0.303	0.300	0.260	0.257	0.251	0.216	0.196	0.2615	15.81
57)	bromodichloromethane	0.399	0.399	0.399	0.362	0.362	0.361	0.320	0.303	0.3629	10.09
58) C	1,4-dioxane	0.214	0.181	0.172	0.160	0.161	0.158	0.144	0.137	0.1659	14.48
59) C	trichloroethene	0.362	0.361	0.356	0.314	0.312	0.312	0.269	0.251	0.3173	13.17
60) C	2,2,4-trimethylpentane	1.351	1.335	1.327	1.156	1.140	1.118	0.978	0.924	1.1661	13.96
61)	methyl methacrylate		0.482	0.491	0.436	0.436	0.425	0.360	0.314	0.4206	15.10
62)	heptane	0.686	0.674	0.669	0.585	0.575	0.564	0.476	0.416	0.5807	16.70
63) C	cis-1,3-dichloropropene	0.381	0.385	0.387	0.353	0.357	0.369	0.339	0.323	0.3617	6.38
64) C	4-methyl-2-pentanone		0.753	0.775	0.684	0.682	0.672	0.578	0.513	0.6653	13.92
65)	trans-1,3-dichloropropene	0.334	0.339	0.345	0.319	0.327	0.334	0.303	0.289	0.3237	5.94
66) C	1,1,2-trichloroethane	0.343	0.319	0.319	0.281	0.281	0.278	0.241	0.222	0.2853	14.21
67) I	chlorobenzene-D5	-----ISTD-----									
68) C	toluene	7.362	7.072	6.920	5.971	5.988	5.941	5.357	4.961	6.1966	13.69
69) s	toluene-D8	8.195	8.213	8.101	8.147	8.140	8.251	8.020	7.821	8.1112	1.69
70)	2-methylthiophene	5.783	5.649	5.590	4.866	4.867	4.878	4.399	4.017	5.0062	12.54
71)	1,3-dichloropropane	3.240	3.164	3.159	2.751	2.807	2.869	2.704	2.526	2.9026	8.85
72)	2-hexanone	4.755	4.665	4.713	4.260	4.471	4.428	4.083	3.647	4.3778	8.56



Initial Calibration Summary

Form 6

Air Volatiles

Client : Langan Engineering & Environmental
Project Name : 160 EAST 125TH STREET
Instrument ID : AIRLAB16
Calibration dates : 09/02/20 17:22 09/02/20 22:06
Lab Number : L2037647
Project Number : 100433203
Ical Ref : ICAL17102

Calibration Files

0.2 =r1618844.D 0.5 =r1618845.D 1.0 =r1618846.D 5.0 =r1618847.D 10 =r1618848.D 20 =r1618849.D
 50 =r1618850.D 100 =r1618851.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
73)	3-methylthiophene	6.086	5.707	5.639	4.947	5.008	5.026	4.461	4.051	5.1154	13.17
74)	dibromochloromethane	3.256	3.271	3.274	2.997	3.029	2.986	2.652	2.465	2.9913	9.96
75) C	1,2-dibromoethane	3.603	3.497	3.407	3.055	3.125	3.187	2.893	2.644	3.1763	10.09
76)	butyl acetate		0.848	0.786	0.705	0.766	0.789	0.771	0.725	0.7701	6.06
77)	octane	2.438	2.451	2.321	2.124	2.112	2.138	1.986	1.905	2.1843	9.20
78) C	tetrachloroethene	3.078	3.007	2.925	2.597	2.599	2.615	2.407	2.183	2.6764	11.52
79)	1,1,1,2-tetrachloroethane	2.639	2.629	2.578	2.292	2.309	2.257	1.950	1.744	2.2999	14.08
80) C	chlorobenzene	5.768	5.608	5.446	4.833	4.979	5.120	4.693	4.154	5.0752	10.44
81) C	ethylbenzene	8.925	8.932	8.736	7.712	7.757	7.721	6.781	6.202	7.8458	12.76
82)	2-ethylthiophene	6.376	6.138	6.096	5.451	5.525	5.526	4.927	4.409	5.5558	11.83
83) C	m+p-xylene	7.362	7.231	7.158	6.357	6.342	6.179	5.262	4.748	6.3298	14.90
84) C	bromoform	2.494	2.498	2.517	2.479	2.619	2.637	2.416	2.240	2.4873	4.98
85) C	styrene	5.445	5.541	5.576	5.150	5.377	5.590	5.230	4.759	5.3334	5.29
86) C	1,1,2,2-tetrachloroethane	5.055	4.963	4.913	4.419	4.487	4.517	4.146	3.644	4.5180	10.43
87) C	o-xylene	7.478	7.457	7.282	6.484	6.417	6.168	5.149	4.497	6.3666	17.10
88)	1,2,3-trichloropropane	3.678	3.631	3.620	3.330	3.415	3.525	3.374	3.170	3.4678	5.07
89)	nonane	7.306	7.044	6.925	6.251	6.286	6.226	5.301	4.455	6.2241	15.27
90) s	bromofluorobenzene	5.122	5.155	5.180	5.405	5.512	5.452	5.504	5.703	5.3791	3.85
91) C	isopropylbenzene	9.764	9.585	9.528	8.567	8.715	8.803	7.798	6.823	8.6977	11.47
92)	bromobenzene	4.716	4.489	4.505	4.118	4.314	4.481	4.269	4.005	4.3620	5.30
93)	2-chlorotoluene	2.766	2.763	2.659	2.459	2.499	2.533	2.361	2.255	2.5367	7.24
94)	n-propylbenzene	2.890	2.975	2.918	2.737	2.775	2.829	2.658	2.457	2.7799	5.97
95)	4-chlorotoluene	2.635	2.518	2.529	2.361	2.446	2.445	2.296	2.198	2.4285	5.76
96)	4-ethyl toluene	1.034	1.012	1.010	0.945	0.982	0.981	0.868	0.755	0.9483	9.85
97)	1,3,5-trimethylbenzene	8.893	8.932	8.841	7.990	8.203	8.231	7.159	6.208	8.0571	11.83
98)	tert-butylbenzene	9.063	9.050	8.933	7.983	8.027	7.823	6.634	5.472	7.8732	16.11
99)	1,2,4-trimethylbenzene	8.292	8.498	8.427	7.863	8.099	7.873	6.347	5.218	7.5773	15.45
100)	decane	6.564	6.745	6.750	5.943	5.892	5.679	5.070	4.722	5.9206	12.77
101) C	Benzyl Chloride	3.433	3.726	3.872	4.254	5.005	5.115	4.856	4.526	4.3481	14.46
102)	1,3-dichlorobenzene	4.959	5.206	5.303	5.025	5.251	5.380	4.862	4.367	5.0441	6.48
103) C	1,4-dichlorobenzene	4.573	4.768	4.903	4.693	5.091	5.194	4.909	4.365	4.8120	5.64
104)	sec-butylbenzene	1.248	1.221	1.219	1.113	1.137	1.145	0.988	0.839	1.1138	12.39
105)	1,2,3-trimethylbenzene	8.547	8.744	8.743	7.930	8.201	7.881	6.315	5.221	7.6976	16.50
106)	p-isopropyltoluene	1.096	1.111	1.082	0.987	0.976	0.942	0.791	0.637	0.9528	17.30
107)	1,2-dichlorobenzene	4.628	5.028	5.042	4.823	5.012	5.114	4.784	4.391	4.8527	5.10
108)	n-butylbenzene	8.565	8.943	8.896	8.157	8.248	8.003	7.014	6.416	8.0304	11.11



Initial Calibration Summary

Form 6

Air Volatiles

Client : Langan Engineering & Environmental
Project Name : 160 EAST 125TH STREET
Instrument ID : AIRLAB16
Calibration dates : 09/02/20 17:22 09/02/20 22:06
Lab Number : L2037647
Project Number : 100433203
Ical Ref : ICAL17102

Calibration Files

0.2 =r1618844.D 0.5 =r1618845.D 1.0 =r1618846.D 5.0 =r1618847.D 10 =r1618848.D 20 =r1618849.D
 50 =r1618850.D 100 =r1618851.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
109)	indan	8.489	8.648	8.796	8.211	8.339	8.377	7.680	6.873	8.1767	7.62
110)	indene	5.678	6.190	6.330	6.116	6.534	6.642	6.365	5.918	6.2218	5.11
111) C	1,2-dibromo-3-chloropropane	1.603	1.620	1.673	1.628	1.751	1.736	1.681	1.598	1.6613	3.55
112)	undecane	6.267	7.175	7.316	6.638	6.577	6.219	5.575	5.200	6.3708	11.40
113)	1,2,4,5-tetramethylbenzene	7.664	8.866	9.163	8.737	8.819	8.871	7.532	7.380	8.3790	8.61
114)	dodecane	4.045	5.985	6.960	6.776	6.744	5.319	5.210	4.804	5.7303	18.46
115) C	1,2,4-trichlorobenzene	1.463	1.874	2.083	2.377	2.709	2.626	2.836	2.890	2.3572	21.61
116)	naphthalene	5.512	6.908	7.575	8.026	8.953	8.032	8.266	8.435	7.7133	13.93
117)	1,2,3-trichlorobenzene	1.638	2.295	2.532	2.614	2.871	2.497	2.671	2.743	2.4825	15.40
118)	benzothiophene	2.466	3.409	4.091	5.959	7.298	5.581	6.259	6.649	5.2140	32.63#
119) C	hexachlorobutadiene	2.012	2.805	2.947	2.794	2.874	2.423	2.268	2.054	2.5222	15.08
120)	2-methylnaphthalene			0.655	0.973	1.292	0.762	1.087	1.408	1.0294	28.51
121)	1-methylnaphthalene			1.783	3.127	3.863	1.601	2.129	2.604	2.5178	34.26#

Response Factor Report

Method Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
Method File : TFS16_200902.M
Title : T0-14A/T0-15 SIM/Full Scan Analysis
Last Update : Thu Sep 03 13:20:01 2020
Response Via : Initial Calibration

Calibration Files

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50 =r1618850.D 100 =r1618851.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
-----		-----									
1) I	bromochloromethane	-----ISTD-----									
2)	chlorodifluoromethane	0.970	0.936	0.930	0.816	0.800	0.740	0.724	0.733	0.8312	12.09
3)	propylene		0.620	0.607	0.538	0.502	0.463	0.416	0.422	0.5099	16.26
4)	propane		0.646	0.656	0.562	0.552	0.520	0.508	0.520	0.5663	10.78
5)	dichlorodifluoromethane	1.164	1.128	1.095	0.964	0.895	0.810	0.767	0.761	0.9480	17.41
6) C	chloromethane	0.705	0.676	0.676	0.592	0.572	0.541	0.517	0.525	0.6004	12.53
7)	Freon-114	1.625	1.583	1.559	1.365	1.314	1.212	1.118	1.051	1.3533	16.22
8) C	methanol			0.251	0.218	0.215	0.192	0.188	0.193	0.2096	11.32
9) C	vinyl chloride	0.646	0.613	0.624	0.546	0.521	0.481	0.454	0.458	0.5430	14.16
10) C	1,3-butadiene	0.540	0.516	0.518	0.464	0.458	0.433	0.421	0.433	0.4729	9.65
11)	butane	1.323	1.209	1.176	1.018	0.960	0.865	0.781	0.751	1.0105	20.75
12) C	acetaldehyde		0.407	0.372	0.304	0.292	0.271	0.252	0.243	0.3058	20.22
13) C	bromomethane	0.578	0.563	0.562	0.499	0.484	0.442	0.416	0.415	0.4949	13.60
14) C	chloroethane	0.322	0.327	0.328	0.288	0.275	0.251	0.234	0.234	0.2824	14.26
15)	ethanol			0.456	0.415	0.369	0.317	0.308	0.286	0.3586	18.62
16)	dichlorofluoromethane	1.250	1.186	1.165	1.031	0.981	0.898	0.799	0.720	1.0039	19.01
17) C	vinyl bromide	0.638	0.615	0.611	0.543	0.529	0.491	0.446	0.434	0.5381	14.55
18) C	acrolein		0.280	0.278	0.232	0.231	0.219	0.215	0.227	0.2403	11.28
19)	acetone	1.119	1.053	1.055	0.910	0.861	0.746	0.628	0.569	0.8676	23.70
20) C	acetonitrile	0.689	0.593	0.584	0.514	0.492	0.448	0.402	0.389	0.5139	20.10
21)	trichlorofluoromethane	0.940	0.901	0.898	0.796	0.758	0.681	0.597	0.580	0.7689	18.23
22)	isopropyl alcohol	1.348	1.288	1.246	1.129	1.104	0.992	0.867	0.809	1.0979	17.89
23) C	acrylonitrile	0.545	0.519	0.520	0.449	0.455	0.433	0.421	0.433	0.4719	10.27
24)	pentane	1.382	1.232	1.174	1.061	1.044	0.949	0.840	0.789	1.0588	18.92
25)	ethyl ether	0.996	0.923	0.888	0.799	0.985	0.907	0.914	0.954	0.9207	6.74
26) C	1,1-dichloroethene	0.777	0.763	0.751	0.664	0.648	0.602	0.547	0.537	0.6612	14.46
27)	tertiary butyl alcohol		0.913	0.884	0.836	0.811	0.753	0.699	0.697	0.7990	10.76
28) C	methylene chloride		0.823	0.808	0.706	0.700	0.658	0.614	0.594	0.7004	12.65
29) C	3-chloropropene	0.995	0.905	0.901	0.786	0.773	0.723	0.643	0.603	0.7912	17.19
30) C	carbon disulfide	2.104	1.990	2.001	1.839	1.844	1.750	1.608	1.503	1.8297	11.17
31)	Freon 113	1.248	1.220	1.198	1.074	1.049	0.980	0.874	0.821	1.0581	15.09

Response Factor Report

Method Path : O:\Forensics\Data\Airlab16\2020\09\200902T_I\
Method File : TFS16_200902.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Sep 03 13:20:01 2020
Response Via : Initial Calibration

Calibration Files

0.2 =r1618844.D 0.5 =r1618845.D 1.0 =r1618846.D 5.0 =r1618847.D 10 =r1618848.D 20 =r1618849.D
50 =r1618850.D 100 =r1618851.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32)	trans-1,2-dichloroethene	0.903	0.843	0.838	0.751	0.735	0.696	0.641	0.611	0.7523	13.65
33) C	1,1-dichloroethane	1.081	1.060	1.041	0.930	0.915	0.866	0.790	0.735	0.9271	13.77
34) C	MTBE	1.765	1.655	1.656	1.476	1.465	1.376	1.258	1.156	1.4759	14.22
35) C	vinyl acetate			1.654	1.501	1.502	1.429	1.301	1.164	1.4253	12.08
36) C	2-butanone		1.597	1.607	1.420	1.394	1.306	1.184	1.065	1.3676	14.70
37)	cis-1,2-dichloroethene	0.752	0.798	0.710	0.625	0.613	0.599	0.546	0.515	0.6448	15.44
38)	Ethyl Acetate		0.278	0.287	0.242	0.227	0.219	0.178	0.197	0.2326	17.20
39) C	chloroform	1.113	1.097	1.093	0.963	0.961	0.912	0.788	0.808	0.9670	13.23
40)	Tetrahydrofuran		1.110	1.084	0.983	0.982	0.929	0.886	0.803	0.9682	11.14
41)	2,2-dichloropropane	0.847	0.860	0.850	0.755	0.754	0.718	0.614	0.608	0.7507	13.44
42) C	1,2-dichloroethane	0.654	0.644	0.651	0.571	0.556	0.517	0.466	0.401	0.5576	16.63
43) I	1,4-difluorobenzene	-----ISTD-----									
44) C	hexane	0.410	0.403	0.392	0.331	0.332	0.335	0.264	0.258	0.3407	17.26
45)	diisopropyl ether	0.256	0.248	0.244	0.182	0.178	0.179	0.140	0.142	0.1960	23.97
46)	tert-butyl ethyl ether	0.703	0.690	0.683	0.600	0.589	0.575	0.491	0.450	0.5977	15.56
47) s	1,2-dichloroethane-D4	0.251	0.251	0.252	0.250	0.245	0.237	0.211	0.184	0.2353	10.56
48) C	1,1,1-trichloroethane	0.352	0.343	0.344	0.301	0.296	0.288	0.245	0.212	0.2976	16.81
49)	1,1-dichloropropene	0.359	0.355	0.349	0.312	0.311	0.312	0.283	0.262	0.3180	11.01
50) C	benzene	0.862	0.828	0.806	0.702	0.695	0.711	0.654	0.633	0.7365	11.48
51)	thiophene	0.437	0.437	0.431	0.380	0.378	0.383	0.350	0.343	0.3925	9.72
52) C	carbon tetrachloride	0.324	0.320	0.314	0.278	0.274	0.270	0.231	0.209	0.2775	15.07
53)	cyclohexane	0.420	0.413	0.411	0.360	0.357	0.354	0.320	0.315	0.3686	11.22
54)	tert-amyl methyl ether	0.728	0.715	0.712	0.625	0.623	0.626	0.559	0.517	0.6382	11.94
55)	dibromomethane	0.256	0.242	0.243	0.209	0.208	0.203	0.174	0.159	0.2119	16.08
56) C	1,2-dichloropropane	0.308	0.303	0.300	0.260	0.257	0.251	0.216	0.196	0.2615	15.81
57)	bromodichloromethane	0.399	0.399	0.399	0.362	0.362	0.361	0.320	0.303	0.3629	10.09
58) C	1,4-dioxane	0.214	0.181	0.172	0.160	0.161	0.158	0.144	0.137	0.1659	14.48
59) C	trichloroethene	0.362	0.361	0.356	0.314	0.312	0.312	0.269	0.251	0.3173	13.17
60) C	2,2,4-trimethylpentane	1.351	1.335	1.327	1.156	1.140	1.118	0.978	0.924	1.1661	13.96
61)	methyl methacrylate		0.482	0.491	0.436	0.436	0.425	0.360	0.314	0.4206	15.10
62)	heptane	0.686	0.674	0.669	0.585	0.575	0.564	0.476	0.416	0.5807	16.70

Response Factor Report

Method Path : O:\Forensics\Data\AirLab16\2020\09\200902T_I\
Method File : TFS16_200902.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Sep 03 13:20:01 2020
Response Via : Initial Calibration

Calibration Files

0.2 =r1618844.D 0.5 =r1618845.D 1.0 =r1618846.D 5.0 =r1618847.D 10 =r1618848.D 20 =r1618849.D
50 =r1618850.D 100 =r1618851.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63) C	cis-1,3-dichloropropene	0.381	0.385	0.387	0.353	0.357	0.369	0.339	0.323	0.3617	6.38
64) C	4-methyl-2-pentanone		0.753	0.775	0.684	0.682	0.672	0.578	0.513	0.6653	13.92
65)	trans-1,3-dichloropropene	0.334	0.339	0.345	0.319	0.327	0.334	0.303	0.289	0.3237	5.94
66) C	1,1,2-trichloroethane	0.343	0.319	0.319	0.281	0.281	0.278	0.241	0.222	0.2853	14.21
67) I	chlorobenzene-D5	-----ISTD-----									
68) C	toluene	7.362	7.072	6.920	5.971	5.988	5.941	5.357	4.961	6.1966	13.69
69) s	toluene-D8	8.195	8.213	8.101	8.147	8.140	8.251	8.020	7.821	8.1112	1.69
70)	2-methylthiophene	5.783	5.649	5.590	4.866	4.867	4.878	4.399	4.017	5.0062	12.54
71)	1,3-dichloropropane	3.240	3.164	3.159	2.751	2.807	2.869	2.704	2.526	2.9026	8.85
72)	2-hexanone	4.755	4.665	4.713	4.260	4.471	4.428	4.083	3.647	4.3778	8.56
73)	3-methylthiophene	6.086	5.707	5.639	4.947	5.008	5.026	4.461	4.051	5.1154	13.17
74)	dibromochloromethane	3.256	3.271	3.274	2.997	3.029	2.986	2.652	2.465	2.9913	9.96
75) C	1,2-dibromoethane	3.603	3.497	3.407	3.055	3.125	3.187	2.893	2.644	3.1763	10.09
76)	butyl acetate		0.848	0.786	0.705	0.766	0.789	0.771	0.725	0.7701	6.06
77)	octane	2.438	2.451	2.321	2.124	2.112	2.138	1.986	1.905	2.1843	9.20
78) C	tetrachloroethene	3.078	3.007	2.925	2.597	2.599	2.615	2.407	2.183	2.6764	11.52
79)	1,1,1,2-tetrachloroethane	2.639	2.629	2.578	2.292	2.309	2.257	1.950	1.744	2.2999	14.08
80) C	chlorobenzene	5.768	5.608	5.446	4.833	4.979	5.120	4.693	4.154	5.0752	10.44
81) C	ethylbenzene	8.925	8.932	8.736	7.712	7.757	7.721	6.781	6.202	7.8458	12.76
82)	2-ethylthiophene	6.376	6.138	6.096	5.451	5.525	5.526	4.927	4.409	5.5558	11.83
83) C	m+p-xylene	7.362	7.231	7.158	6.357	6.342	6.179	5.262	4.748	6.3298	14.90
84) C	bromoform	2.494	2.498	2.517	2.479	2.619	2.637	2.416	2.240	2.4873	4.98
85) C	styrene	5.445	5.541	5.576	5.150	5.377	5.590	5.230	4.759	5.3334	5.29
86) C	1,1,2,2-tetrachloroethane	5.055	4.963	4.913	4.419	4.487	4.517	4.146	3.644	4.5180	10.43
87) C	o-xylene	7.478	7.457	7.282	6.484	6.417	6.168	5.149	4.497	6.3666	17.10
88)	1,2,3-trichloropropane	3.678	3.631	3.620	3.330	3.415	3.525	3.374	3.170	3.4678	5.07
89)	nonane	7.306	7.044	6.925	6.251	6.286	6.226	5.301	4.455	6.2241	15.27
90) s	bromofluorobenzene	5.122	5.155	5.180	5.405	5.512	5.452	5.504	5.703	5.3791	3.85
91) C	isopropylbenzene	9.764	9.585	9.528	8.567	8.715	8.803	7.798	6.823	8.6977	11.47
92)	bromobenzene	4.716	4.489	4.505	4.118	4.314	4.481	4.269	4.005	4.3620	5.30
93)	2-chlorotoluene	2.766	2.763	2.659	2.459	2.499	2.533	2.361	2.255	2.5367	7.24

Response Factor Report

Method Path : O:\Forensics\Data\AirLab16\2020\09\200902T_I\
 Method File : TFS16_200902.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Thu Sep 03 13:20:01 2020
 Response Via : Initial Calibration

Calibration Files

0.2 =r1618844.D 0.5 =r1618845.D 1.0 =r1618846.D 5.0 =r1618847.D 10 =r1618848.D 20 =r1618849.D
 50 =r1618850.D 100 =r1618851.D

Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)	n-propylbenzene	2.890	2.975	2.918	2.737	2.775	2.829	2.658	2.457	2.7799	5.97
95)	4-chlorotoluene	2.635	2.518	2.529	2.361	2.446	2.445	2.296	2.198	2.4285	5.76
96)	4-ethyl toluene	1.034	1.012	1.010	0.945	0.982	0.981	0.868	0.755	0.9483	9.85
97)	1,3,5-trimethylbenzene	8.893	8.932	8.841	7.990	8.203	8.231	7.159	6.208	8.0571	11.83
98)	tert-butylbenzene	9.063	9.050	8.933	7.983	8.027	7.823	6.634	5.472	7.8732	16.11
99)	1,2,4-trimethylbenzene	8.292	8.498	8.427	7.863	8.099	7.873	6.347	5.218	7.5773	15.45
100)	decane	6.564	6.745	6.750	5.943	5.892	5.679	5.070	4.722	5.9206	12.77
101) C	Benzyl Chloride	3.433	3.726	3.872	4.254	5.005	5.115	4.856	4.526	4.3481	14.46
102)	1,3-dichlorobenzene	4.959	5.206	5.303	5.025	5.251	5.380	4.862	4.367	5.0441	6.48
103) C	1,4-dichlorobenzene	4.573	4.768	4.903	4.693	5.091	5.194	4.909	4.365	4.8120	5.64
104)	sec-butylbenzene	1.248	1.221	1.219	1.113	1.137	1.145	0.988	0.839	1.1138	12.39
105)	1,2,3-trimethylbenzene	8.547	8.744	8.743	7.930	8.201	7.881	6.315	5.221	7.6976	16.50
106)	p-isopropyltoluene	1.096	1.111	1.082	0.987	0.976	0.942	0.791	0.637	0.9528	17.30
107)	1,2-dichlorobenzene	4.628	5.028	5.042	4.823	5.012	5.114	4.784	4.391	4.8527	5.10
108)	n-butylbenzene	8.565	8.943	8.896	8.157	8.248	8.003	7.014	6.416	8.0304	11.11
109)	indan	8.489	8.648	8.796	8.211	8.339	8.377	7.680	6.873	8.1767	7.62
110)	indene	5.678	6.190	6.330	6.116	6.534	6.642	6.365	5.918	6.2218	5.11
111) C	1,2-dibromo-3-chloropropane	1.603	1.620	1.673	1.628	1.751	1.736	1.681	1.598	1.6613	3.55
112)	undecane	6.267	7.175	7.316	6.638	6.577	6.219	5.575	5.200	6.3708	11.40
113)	1,2,4,5-tetramethylbenzene	7.664	8.866	9.163	8.737	8.819	8.871	7.532	7.380	8.3790	8.61
114)	dodecane	4.045	5.985	6.960	6.776	6.744	5.319	5.210	4.804	5.7303	18.46
115) C	1,2,4-trichlorobenzene	1.463	1.874	2.083	2.377	2.709	2.626	2.836	2.890	2.3572	21.61
116)	naphthalene	5.512	6.908	7.575	8.026	8.953	8.032	8.266	8.435	7.7133	13.93
117)	1,2,3-trichlorobenzene	1.638	2.295	2.532	2.614	2.871	2.497	2.671	2.743	2.4825	15.40
118)	benzothiophene	2.466	3.409	4.091	5.959	7.298	5.581	6.259	6.649	5.2140	32.63#
119) C	hexachlorobutadiene	2.012	2.805	2.947	2.794	2.874	2.423	2.268	2.054	2.5222	15.08
120)	2-methylnaphthalene			0.655	0.973	1.292	0.762	1.087	1.408	1.0294	28.51
121)	1-methylnaphthalene			1.783	3.127	3.863	1.601	2.129	2.604	2.5178	34.26#

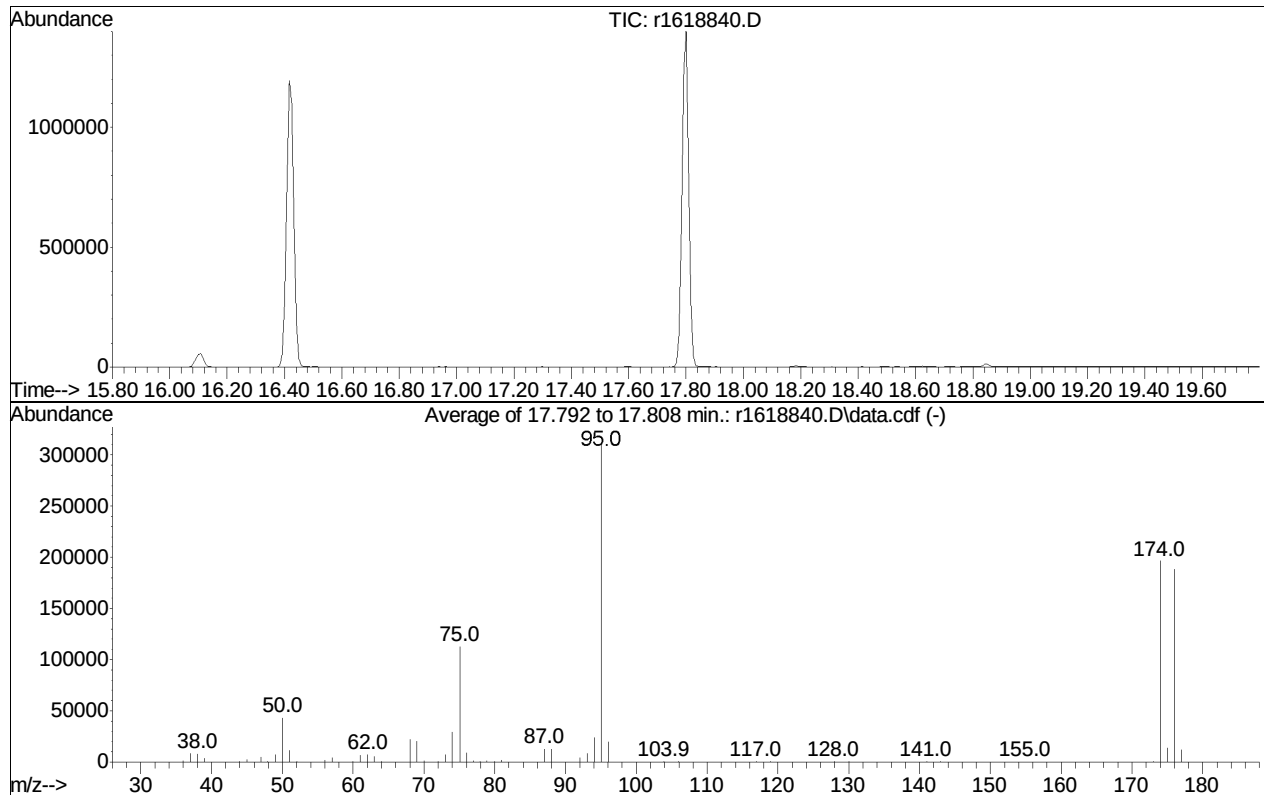
(#) = Out of Range

BFB

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618840.D
 Acq On : 2 Sep 2020 2:42 PM
 Operator : AIRLAB16:RY
 Sample : WG1406250-1,3,250,250
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Thu Sep 03 13:20:01 2020



Spectrum Information: Average of 17.792 to 17.808 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.9	43233	PASS
75	95	30	66	36.2	112970	PASS
95	95	100	100	100.0	311987	PASS
96	95	5	9	6.5	20137	PASS
173	174	0.00	2	0.5	1031	PASS
174	95	50	120	63.1	196802	PASS
175	174	4	9	6.9	13576	PASS
176	174	93	101	95.8	188475	PASS
177	176	5	9	6.5	12201	PASS

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618844.D
 Acq On : 2 Sep 2020 5:22 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD0.2
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:04:50 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.43	49	316394	10.000	ppbV	0.00
Standard Area = 306140			Recovery = 103.35%			
43) 1,4-difluorobenzene	11.71	114	896865	10.000	ppbV	0.00
Standard Area = 891777			Recovery = 100.57%			
67) chlorobenzene-D5	16.43	54	118220	10.000	ppbV	0.00
Standard Area = 120304			Recovery = 98.27%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.32	65	225472	10.276	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.76%			
69) toluene-D8	14.54	98	968765	10.067	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.67%			
90) bromofluorobenzene	17.80	95	605542	9.293	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.93%			
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.80	51	6140	0.243	ppbV	99
3) propylene	3.83	41	3970M4	0.250	ppbV	
4) propane	3.86	29	5121	0.293	ppbV	98
5) dichlorodifluoromethane	3.91	85	7366	0.260	ppbV	95
6) chloromethane	4.09	50	4461	0.247	ppbV	97
7) Freon-114	4.21	85	10284	0.247	ppbV	94
8) methanol	4.30	31	8636	1.270	ppbV #	67
9) vinyl chloride	4.34	62	4087	0.248	ppbV	99
10) 1,3-butadiene	4.50	54	3414	0.235	ppbV	91
11) butane	4.56	43	8369	0.275	ppbV	99
12) acetaldehyde	4.24	29	15145	1.639	ppbV	87
13) bromomethane	4.81	94	3660	0.239	ppbV	99
14) chloroethane	5.03	64	2040	0.234	ppbV	100
15) ethanol	5.24	31	18536	1.586	ppbV	97
16) dichlorofluoromethane	5.16	67	7913	0.255	ppbV	97
17) vinyl bromide	5.45	106	4036	0.241	ppbV	93
18) acrolein	5.63	56	2011	0.275	ppbV #	81
19) acetone	5.81	43	35411	1.300	ppbV #	95
20) acetonitrile	5.47	41	4362	0.280	ppbV	97
21) trichlorofluoromethane	5.97	101	5949	0.248	ppbV	96
22) isopropyl alcohol	6.16	45	21329	0.611	ppbV	100
23) acrylonitrile	6.35	53	3450	0.240	ppbV	92
24) pentane	6.41	43	8745M4	0.265	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618844.D
 Acq On : 2 Sep 2020 5:22 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD0.2
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:04:50 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.49	31	6300	0.202	ppbV	98
26) 1,1-dichloroethene	6.73	61	4917	0.240	ppbV	94
27) tertiary butyl alcohol	6.91	59	5768	0.225	ppbV #	84
28) methylene chloride	6.89	49	5596	0.253	ppbV	100
29) 3-chloropropene	7.04	41	6299	0.258	ppbV	97
30) carbon disulfide	7.18	76	13311	0.228	ppbV #	1
31) Freon 113	7.22	101	7897	0.238	ppbV	96
32) trans-1,2-dichloroethene	8.03	61	5712	0.246	ppbV	92
33) 1,1-dichloroethane	8.25	63	6842	0.236	ppbV	99
34) MTBE	8.40	73	11170	0.241	ppbV	96
35) vinyl acetate	8.49	43	10735	0.226	ppbV	99
36) 2-butanone	8.79	43	10810M4	0.245	ppbV	
37) cis-1,2-dichloroethene	9.24	61	4759	0.245	ppbV	96
38) Ethyl Acetate	9.60	61	1989M4	0.277	ppbV	
39) chloroform	9.60	83	7046	0.232	ppbV	91
40) Tetrahydrofuran	10.11	42	7519	0.242	ppbV	95
41) 2,2-dichloropropane	9.62	77	5359	0.225	ppbV	98
42) 1,2-dichloroethane	10.45	62	4140	0.235	ppbV	98
44) hexane	9.51	57	7352	0.247	ppbV #	62
45) diisopropyl ether	9.57	87	4596	0.288	ppbV	86
46) tert-butyl ethyl ether	10.19	59	12607	0.239	ppbV	98
48) 1,1,1-trichloroethane	10.74	97	6314	0.238	ppbV #	93
49) 1,1-dichloropropene	11.11	75	6447	0.231	ppbV	95
50) benzene	11.27	78	15462	0.248	ppbV	100
51) thiophene	11.41	84	7844	0.231	ppbV	98
52) carbon tetrachloride	11.43	117	5815	0.237	ppbV	99
53) cyclohexane	11.58	56	7526	0.235	ppbV	95
54) tert-amyl methyl ether	12.01	73	13051	0.233	ppbV	97
55) dibromomethane	12.19	93	4596	0.247	ppbV	92
56) 1,2-dichloropropane	12.22	63	5530	0.240	ppbV	97
57) bromodichloromethane	12.45	83	7156	0.221	ppbV	94
58) 1,4-dioxane	12.55	88	3837	0.265	ppbV #	63
59) trichloroethene	12.50	130	6493	0.232	ppbV	95
60) 2,2,4-trimethylpentane	12.55	57	24225	0.237	ppbV	99
61) methyl methacrylate	12.78	41	8644	0.221	ppbV	99
62) heptane	12.87	43	12299	0.238	ppbV	98
63) cis-1,3-dichloropropene	13.52	75	6831	0.214	ppbV	99
64) 4-methyl-2-pentanone	13.60	43	13700	0.224	ppbV	96
65) trans-1,3-dichloropropene	14.14	75	6000	0.204	ppbV	89
66) 1,1,2-trichloroethane	14.33	97	6147	0.244	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618844.D
 Acq On : 2 Sep 2020 5:22 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD0.2
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:04:50 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	toluene	14.66	91	17407	0.246	ppbV	99
70)	2-methylthiophene	14.73	97	13674	0.238	ppbV	96
71)	1,3-dichloropropane	14.69	76	7661	0.231	ppbV	95
72)	2-hexanone	14.98	43	11243	0.213	ppbV	97
73)	3-methylthiophene	14.93	97	14389	0.243	ppbV #	97
74)	dibromochloromethane	15.11	129	7699	0.215	ppbV	95
75)	1,2-dibromoethane	15.36	107	8519	0.231	ppbV	96
76)	butyl acetate	15.63	73	2472	0.273	ppbV	87
77)	octane	15.70	85	5765	0.231	ppbV	100
78)	tetrachloroethene	15.82	166	7278	0.237	ppbV	95
79)	1,1,1,2-tetrachloroethane	16.45	131	6240	0.229	ppbV	94
80)	chlorobenzene	16.47	112	13638	0.232	ppbV	98
81)	ethylbenzene	16.82	91	21103	0.230	ppbV	99
82)	2-ethylthiophene	16.85	97	15075	0.231	ppbV	96
83)	m+p-xylene	16.98	91	34812	0.464	ppbV	94
84)	bromoform	17.04	173	5897	0.190	ppbV	96
85)	styrene	17.31	104	12873	0.202	ppbV	99
86)	1,1,2,2-tetrachloroethane	17.41	83	11952	0.225	ppbV	99
87)	o-xylene	17.40	91	17681	0.233	ppbV	94
88)	1,2,3-trichloropropane	17.52	75	8696	0.215	ppbV	99
89)	nonane	17.60	43	17274	0.232	ppbV	97
91)	isopropylbenzene	17.92	105	23086	0.224	ppbV	98
92)	bromobenzene	17.99	77	11151	0.219	ppbV	97
93)	2-chlorotoluene	18.32	126	6539	0.221	ppbV	99
94)	n-propylbenzene	18.36	120	6834	0.208	ppbV	91
95)	4-chlorotoluene	18.39	126	6231	0.215	ppbV	96
96)	4-ethyl toluene	18.48	105	24438	0.210	ppbV	99
97)	1,3,5-trimethylbenzene	18.54	105	21026	0.217	ppbV	98
98)	tert-butylbenzene	18.88	119	21429	0.226	ppbV	98
99)	1,2,4-trimethylbenzene	18.89	105	19606	0.205	ppbV #	85
100)	decane	18.98	57	15519	0.223	ppbV	98
101)	Benzyl Chloride	19.01	91	8116	0.137	ppbV	97
102)	1,3-dichlorobenzene	19.02	146	11725M3	0.189	ppbV	
103)	1,4-dichlorobenzene	19.08	146	10812	0.180	ppbV	97
104)	sec-butylbenzene	19.12	105	29496	0.219	ppbV	97
105)	1,2,3-trimethylbenzene	19.25	105	20208	0.208	ppbV	97
106)	p-isopropyltoluene	19.25	119	25921	0.225	ppbV	96
107)	1,2-dichlorobenzene	19.37	146	10943	0.185	ppbV	97
108)	n-butylbenzene	19.61	91	20251	0.208	ppbV	94
109)	indan	19.43	117	20072	0.204	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618844.D
 Acq On : 2 Sep 2020 5:22 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD0.2
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:04:50 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
110)	indene	19.50	115	13426	0.174	ppbV	#	98
111)	1,2-dibromo-3-chloropr...	19.76	75	3791	0.183	ppbV		88
112)	undecane	20.03	57	14818	0.191	ppbV		90
113)	1,2,4,5-tetramethylben...	20.26	119	18120	0.174	ppbV		97
114)	dodecane	20.95	57	9564	0.120	ppbV		94
115)	1,2,4-trichlorobenzene	20.90	180	3460	0.108	ppbV		97
116)	naphthalene	21.01	128	13032	0.123	ppbV		99
117)	1,2,3-trichlorobenzene	21.26	180	3872	0.114	ppbV	#	93
118)	benzothiophene	21.07	134	5831	0.068	ppbV	#	94
119)	hexachlorobutadiene	21.32	225	4756	0.140	ppbV		91
120)	2-methylnaphthalene	22.09	142	773	0.051	ppbV	#	88
121)	1-methylnaphthalene	22.28		0	N.D.			

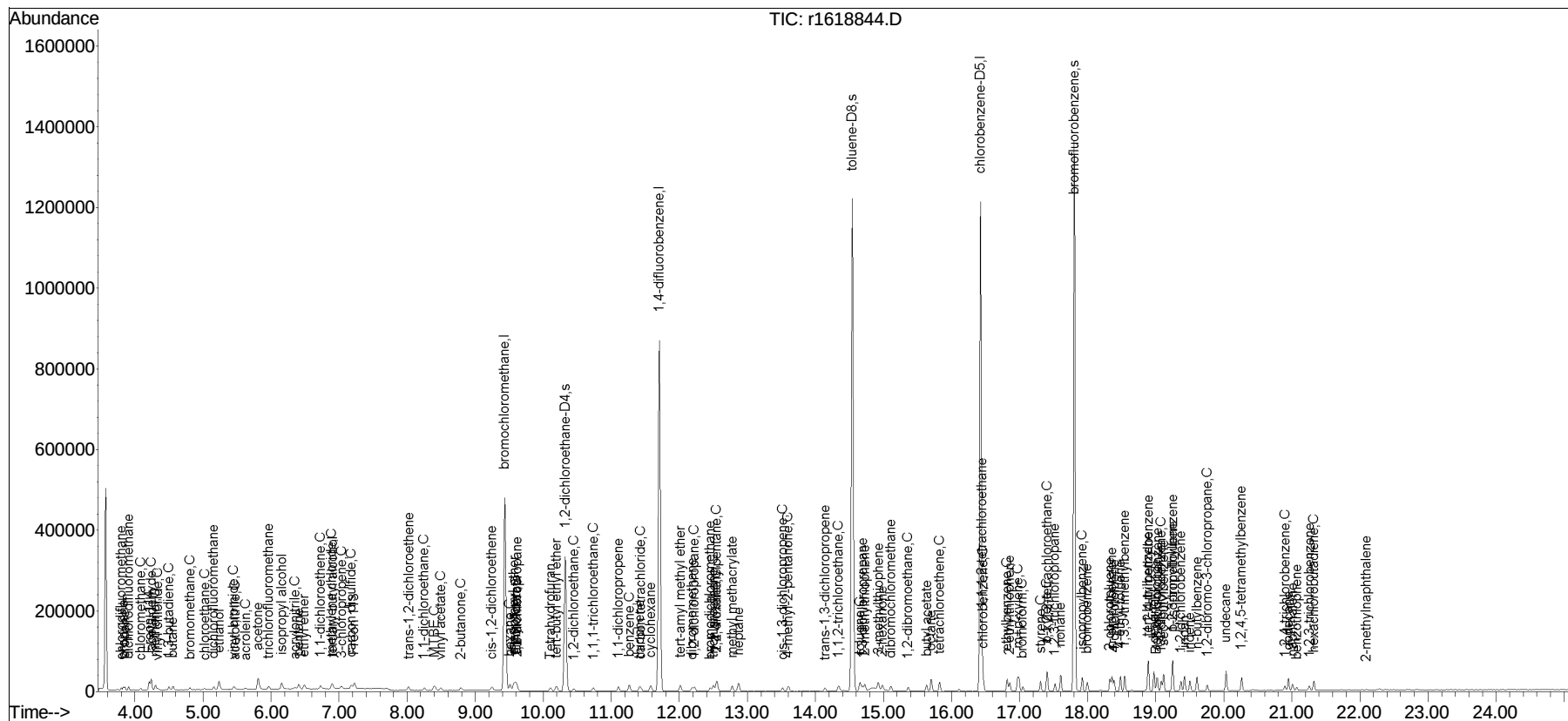
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path : 0:\Forensics\Data\AirLab16\2020\09\200902T_I\
Data File : r1618844.D
Acq On    : 2 Sep 2020 5:22 PM
Operator  : AIRLAB16:RY
Sample    : IT015-LLSTD0.2
Misc      : WG1406250
ALS Vial  : 0 Sample Multiplier: 1
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Quant Time: Sep 03 13:04:50 2020
Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Sep 03 07:34:25 2020
Response via : Initial Calibration

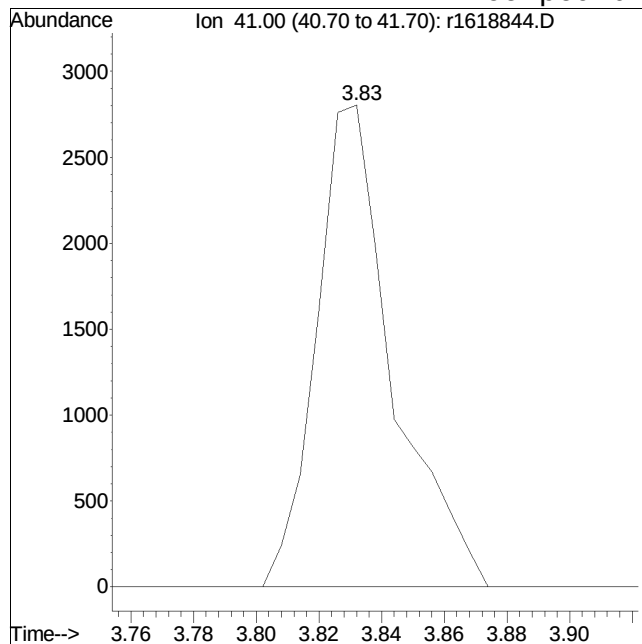
Sub List : Default - All compounds listed0\09\200902T_I\r1618848.D



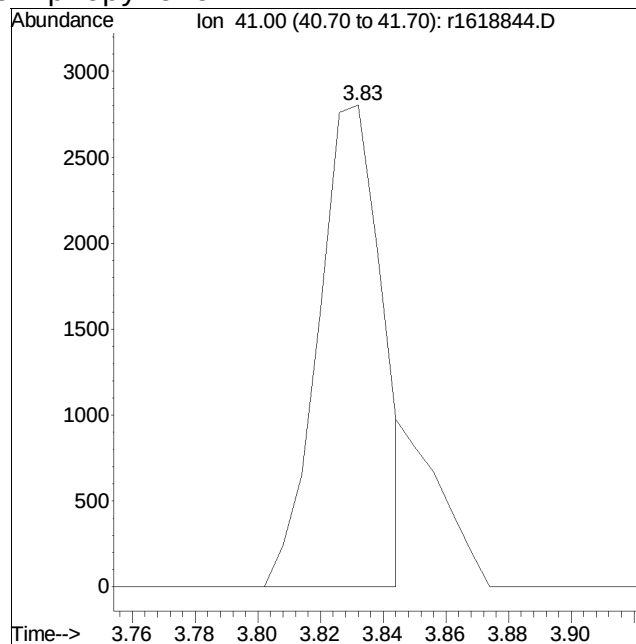
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618844.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:5: 2 Instrument :
Sample : IT015-LLSTD0.2 Quant Date : 9/3/2020 7:34 am

Compound #3: propylene



Original Peak Response = 4737



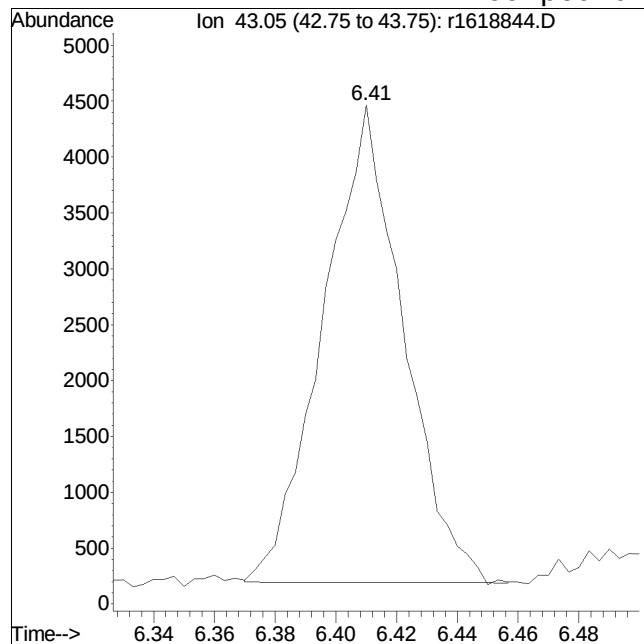
Manual Peak Response = 3970 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

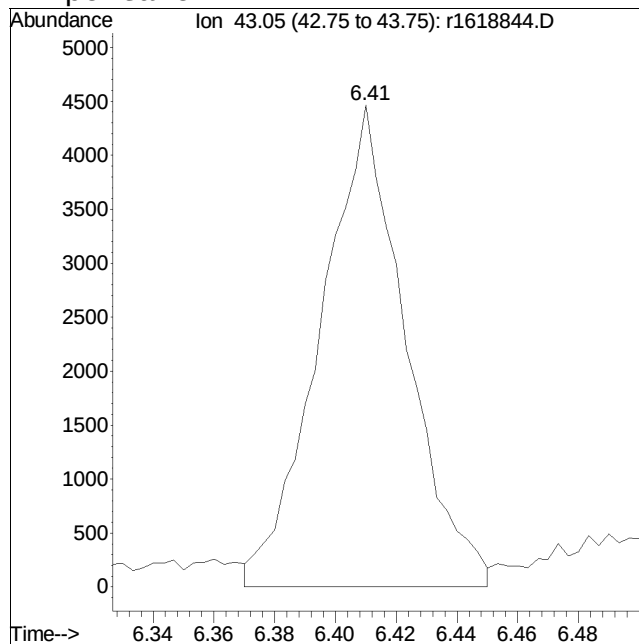
Data Path : 0:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618844.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:5: 2 Instrument :
Sample : IT015-LLSTD0.2 Quant Date : 9/3/2020 7:34 am

Compound #24: pentane



Original Peak Response = 7824

M4 = Poor automated baseline construction.

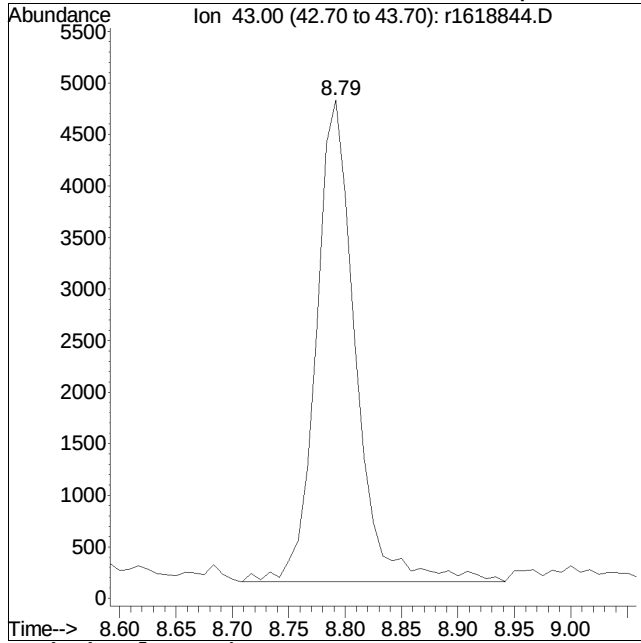


Manual Peak Response = 8745 M4

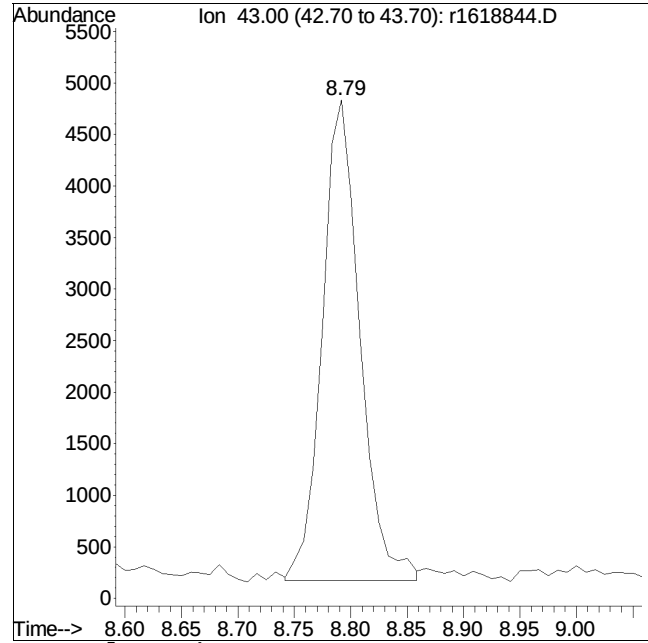
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618844.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:5: 2 Instrument :
Sample : IT015-LLSTD0.2 Quant Date : 9/3/2020 7:34 am

Compound #36: 2-butanone



Original Peak Response = 11398



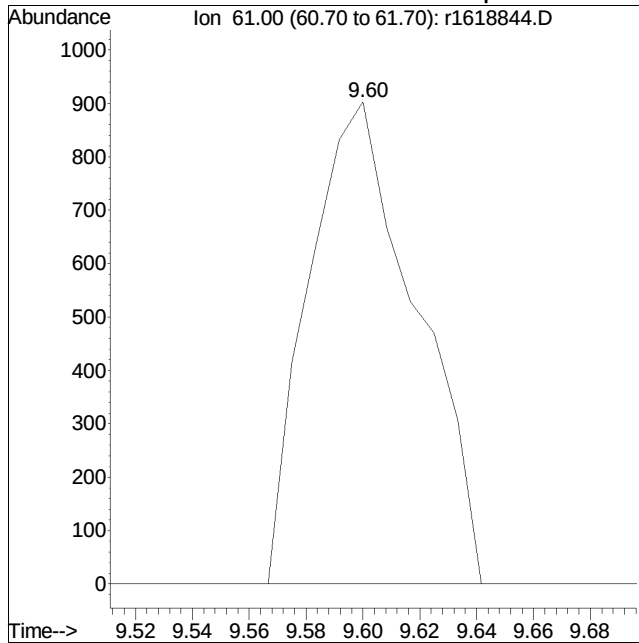
Manual Peak Response = 10810 M4

M4 = Poor automated baseline construction.

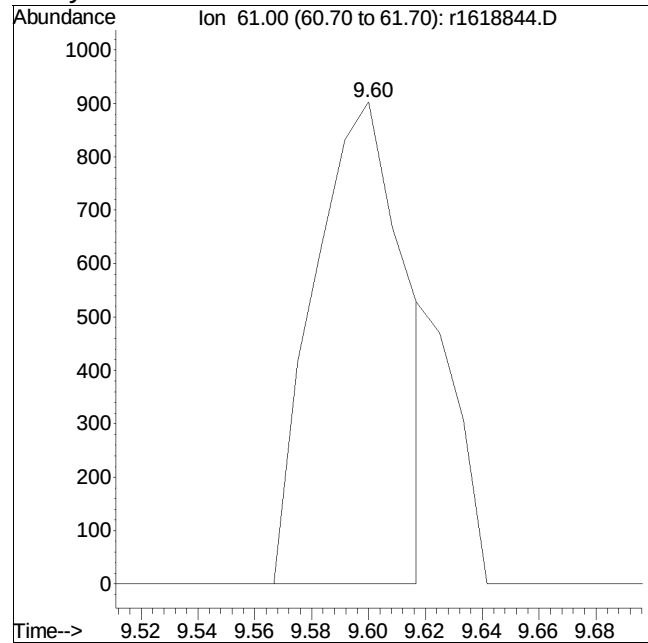
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618844.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:5: 2 Instrument :
Sample : IT015-LLSTD0.2 Quant Date : 9/3/2020 7:34 am

Compound #38: Ethyl Acetate



Original Peak Response = 2378



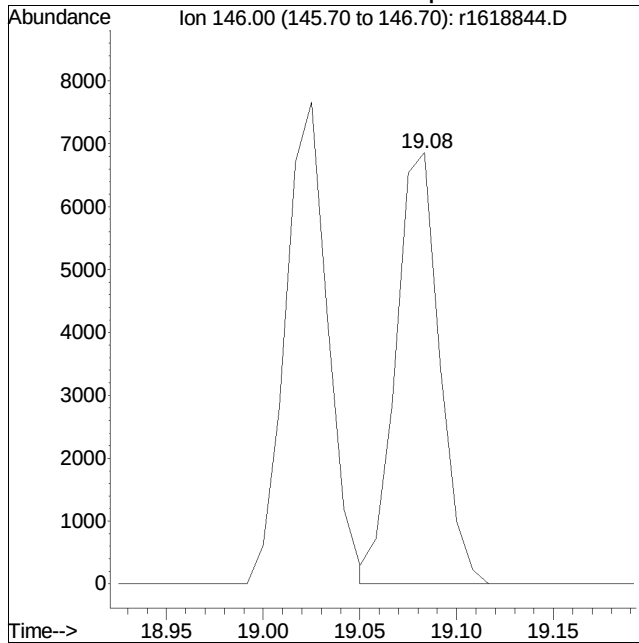
Manual Peak Response = 1989 M4

M4 = Poor automated baseline construction.

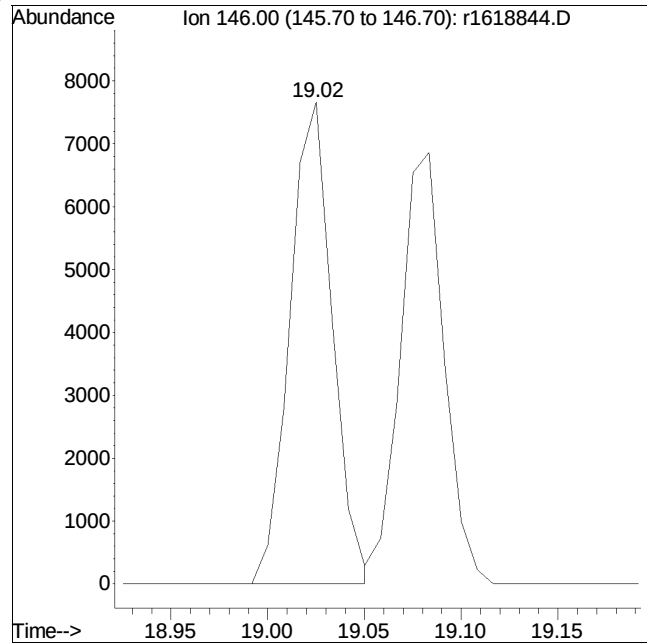
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618844.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:5: 2 Instrument :
Sample : IT015-LLSTD0.2 Quant Date : 9/3/2020 7:34 am

Compound #102: 1,3-dichlorobenzene



Original Peak Response = 10812



Manual Peak Response = 11725 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618845.D
 Acq On : 2 Sep 2020 6:01 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD0.5
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:06:46 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.44	49	316023	10.000	ppbV	0.00
Standard Area = 306140			Recovery =	103.23%		
43) 1,4-difluorobenzene	11.71	114	887997	10.000	ppbV	0.00
Standard Area = 891777			Recovery =	99.58%		
67) chlorobenzene-D5	16.43	54	118878	10.000	ppbV	0.00
Standard Area = 120304			Recovery =	98.81%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.32	65	222846	10.258	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.58%		
69) toluene-D8	14.54	98	976396	10.090	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.90%		
90) bromofluorobenzene	17.80	95	612851	9.353	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.53%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.80	51	14788	0.585	ppbV	97
3) propylene	3.83	41	9801M4	0.618	ppbV	
4) propane	3.86	29	10206M4	0.585	ppbV	
5) dichlorodifluoromethane	3.91	85	17828	0.630	ppbV	99
6) chloromethane	4.09	50	10688	0.592	ppbV	100
7) Freon-114	4.22	85	25010	0.602	ppbV	99
8) methanol	4.30	31	20462	3.013	ppbV #	86
9) vinyl chloride	4.34	62	9685	0.588	ppbV	97
10) 1,3-butadiene	4.50	54	8159	0.563	ppbV	96
11) butane	4.56	43	19105	0.630	ppbV	98
12) acetaldehyde	4.24	29	32157	3.484	ppbV	92
13) bromomethane	4.81	94	8895	0.581	ppbV	95
14) chloroethane	5.03	64	5166	0.593	ppbV	90
15) ethanol	5.23	31	40964	3.510	ppbV	100
16) dichlorofluoromethane	5.16	67	18742	0.604	ppbV	95
17) vinyl bromide	5.45	106	9711	0.581	ppbV	95
18) acrolein	5.62	56	4423	0.605	ppbV #	88
19) acetone	5.80	43	83212	3.059	ppbV #	94
20) acetonitrile	5.47	41	9364	0.602	ppbV	92
21) trichlorofluoromethane	5.97	101	14239	0.595	ppbV	95
22) isopropyl alcohol	6.15	45	50875	1.458	ppbV	98
23) acrylonitrile	6.35	53	8202	0.571	ppbV	96
24) pentane	6.41	43	19468M4	0.590	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618845.D
 Acq On : 2 Sep 2020 6:01 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD0.5
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:06:46 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.48	31	14580	0.468	ppbV	95
26) 1,1-dichloroethene	6.73	61	12060	0.589	ppbV	98
27) tertiary butyl alcohol	6.90	59	14426	0.563	ppbV #	86
28) methylene chloride	6.90	49	12997	0.587	ppbV	98
29) 3-chloropropene	7.04	41	14304	0.586	ppbV	99
30) carbon disulfide	7.18	76	31438	0.540	ppbV #	56
31) Freon 113	7.23	101	19284	0.582	ppbV	99
32) trans-1,2-dichloroethene	8.02	61	13325	0.573	ppbV	98
33) 1,1-dichloroethane	8.26	63	16743	0.579	ppbV	99
34) MTBE	8.39	73	26152	0.565	ppbV	95
35) vinyl acetate	8.49	43	28387M4	0.598	ppbV	
36) 2-butanone	8.78	43	25236	0.573	ppbV	98
37) cis-1,2-dichloroethene	9.25	61	12609	0.651	ppbV	97
38) Ethyl Acetate	9.58	61	4391M6	0.611	ppbV	
39) chloroform	9.60	83	17334	0.571	ppbV	99
40) Tetrahydrofuran	10.09	42	17541	0.565	ppbV	98
41) 2,2-dichloropropane	9.62	77	13590	0.570	ppbV	96
42) 1,2-dichloroethane	10.45	62	10178	0.580	ppbV	99
44) hexane	9.52	57	17888	0.607	ppbV #	61
45) diisopropyl ether	9.56	87	10989	0.697	ppbV	86
46) tert-butyl ethyl ether	10.19	59	30628	0.585	ppbV	97
48) 1,1,1-trichloroethane	10.73	97	15235	0.581	ppbV	98
49) 1,1-dichloropropene	11.11	75	15769	0.570	ppbV	98
50) benzene	11.27	78	36765	0.596	ppbV	99
51) thiophene	11.41	84	19392	0.578	ppbV	99
52) carbon tetrachloride	11.43	117	14187	0.584	ppbV	97
53) cyclohexane	11.58	56	18317	0.578	ppbV	97
54) tert-amyl methyl ether	12.01	73	31754	0.574	ppbV	97
55) dibromomethane	12.19	93	10742	0.582	ppbV	99
56) 1,2-dichloropropane	12.22	63	13438	0.588	ppbV	99
57) bromodichloromethane	12.45	83	17725	0.552	ppbV	99
58) 1,4-dioxane	12.54	88	8048	0.561	ppbV #	67
59) trichloroethene	12.50	130	16045	0.579	ppbV	97
60) 2,2,4-trimethylpentane	12.55	57	59282	0.586	ppbV	100
61) methyl methacrylate	12.77	41	21403	0.553	ppbV	99
62) heptane	12.87	43	29929	0.586	ppbV	100
63) cis-1,3-dichloropropene	13.52	75	17095	0.540	ppbV	94
64) 4-methyl-2-pentanone	13.60	43	33419	0.552	ppbV	98
65) trans-1,3-dichloropropene	14.14	75	15060	0.518	ppbV	94
66) 1,1,2-trichloroethane	14.34	97	14146	0.567	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618845.D
 Acq On : 2 Sep 2020 6:01 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD0.5
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:06:46 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.66	91	42034	0.590	ppbV	98
70) 2-methylthiophene	14.73	97	33579	0.580	ppbV	97
71) 1,3-dichloropropane	14.69	76	18807	0.564	ppbV	98
72) 2-hexanone	14.98	43	27730	0.522	ppbV	98
73) 3-methylthiophene	14.93	97	33919	0.570	ppbV	98
74) dibromochloromethane	15.11	129	19441	0.540	ppbV	98
75) 1,2-dibromoethane	15.36	107	20785	0.559	ppbV	98
76) butyl acetate	15.63	73	5043	0.554	ppbV	97
77) octane	15.70	85	14566	0.580	ppbV	96
78) tetrachloroethene	15.82	166	17875	0.579	ppbV	97
79) 1,1,1,2-tetrachloroethane	16.45	131	15629	0.569	ppbV	95
80) chlorobenzene	16.47	112	33335	0.563	ppbV	99
81) ethylbenzene	16.82	91	53090	0.576	ppbV	97
82) 2-ethylthiophene	16.86	97	36481	0.555	ppbV	99
83) m+p-xylene	16.98	91	85964	1.140	ppbV	96
84) bromoform	17.04	173	14847	0.477	ppbV	96
85) styrene	17.31	104	32936	0.515	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.40	83	29501	0.553	ppbV	99
87) o-xylene	17.40	91	44324	0.581	ppbV	94
88) 1,2,3-trichloropropane	17.52	75	21581	0.532	ppbV	96
89) nonane	17.60	43	41868	0.560	ppbV	95
91) isopropylbenzene	17.92	105	56970	0.550	ppbV	99
92) bromobenzene	17.99	77	26681	0.520	ppbV	95
93) 2-chlorotoluene	18.32	126	16421	0.553	ppbV	94
94) n-propylbenzene	18.36	120	17681	0.536	ppbV	96
95) 4-chlorotoluene	18.38	126	14969	0.515	ppbV	85
96) 4-ethyl toluene	18.48	105	60126	0.515	ppbV	98
97) 1,3,5-trimethylbenzene	18.54	105	53090	0.544	ppbV	96
98) tert-butylbenzene	18.89	119	53793	0.564	ppbV	98
99) 1,2,4-trimethylbenzene	18.89	105	50510	0.525	ppbV #	89
100) decane	18.98	57	40094	0.572	ppbV	95
101) Benzyl Chloride	19.01	91	22144	0.372	ppbV	99
102) 1,3-dichlorobenzene	19.02	146	30942	0.496	ppbV	95
103) 1,4-dichlorobenzene	19.08	146	28341	0.468	ppbV	93
104) sec-butylbenzene	19.12	105	72586	0.537	ppbV	97
105) 1,2,3-trimethylbenzene	19.25	105	51972	0.533	ppbV	100
106) p-isopropyltoluene	19.25	119	66054	0.570	ppbV	94
107) 1,2-dichlorobenzene	19.37	146	29885	0.502	ppbV	98
108) n-butylbenzene	19.61	91	53156	0.542	ppbV	94
109) indan	19.43	117	51402	0.518	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618845.D
 Acq On : 2 Sep 2020 6:01 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD0.5
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:06:46 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
110)	indene	19.50	115	36794	0.474	ppbV		97
111)	1,2-dibromo-3-chloropr...	19.76	75	9629	0.463	ppbV	#	89
112)	undecane	20.03	57	42646	0.545	ppbV		92
113)	1,2,4,5-tetramethylben...	20.27	119	52697	0.503	ppbV		97
114)	dodecane	20.95	57	35572	0.444	ppbV		99
115)	1,2,4-trichlorobenzene	20.90	180	11140	0.346	ppbV		95
116)	naphthalene	21.02	128	41060	0.386	ppbV		97
117)	1,2,3-trichlorobenzene	21.26	180	13639	0.400	ppbV		99
118)	benzothiophene	21.07	134	20262	0.234	ppbV	#	97
119)	hexachlorobutadiene	21.32	225	16674	0.488	ppbV		93
120)	2-methylnaphthalene	22.10	142	2519	0.164	ppbV	#	94
121)	1-methylnaphthalene	22.29	142	7004	0.153	ppbV		92

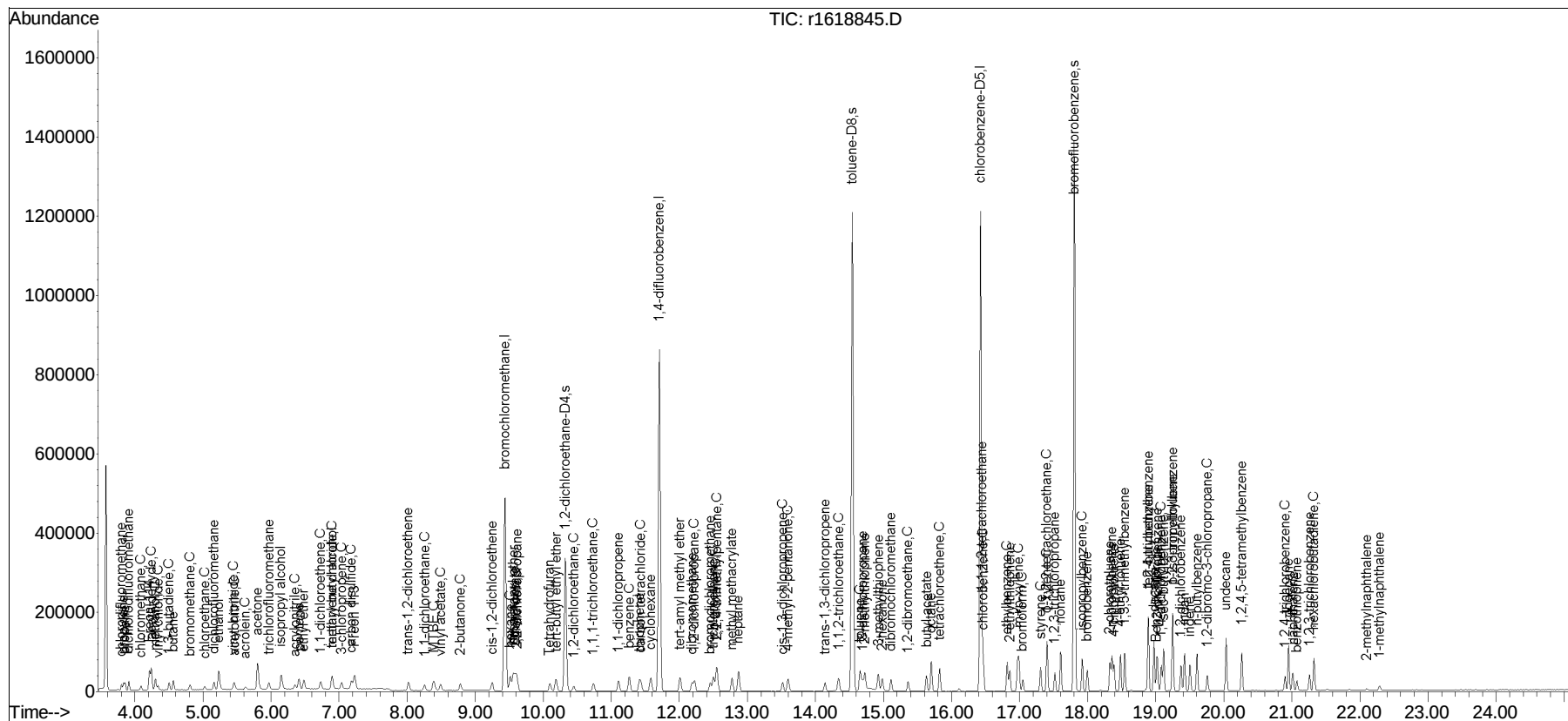
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path : 0:\Forensics\Data\AirLab16\2020\09\200902T_I\
Data File : r1618845.D
Acq On    : 2 Sep 2020 6:01 PM
Operator  : AIRLAB16:RY
Sample    : IT015-LLSTD0.5
Misc      : WG1406250
ALS Vial  : 0 Sample Multiplier: 1
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Quant Time: Sep 03 13:06:46 2020
Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Sep 03 07:34:25 2020
Response via : Initial Calibration

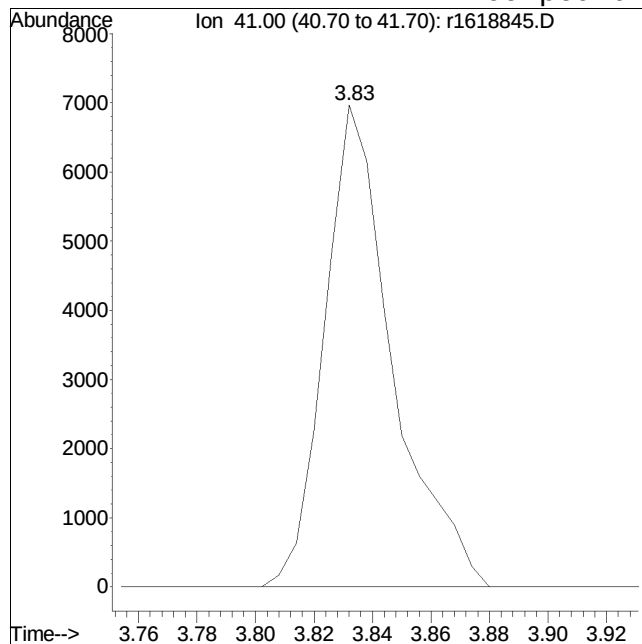
Sub List : Default - All compounds listed0\09\200902T_I\r1618848.D



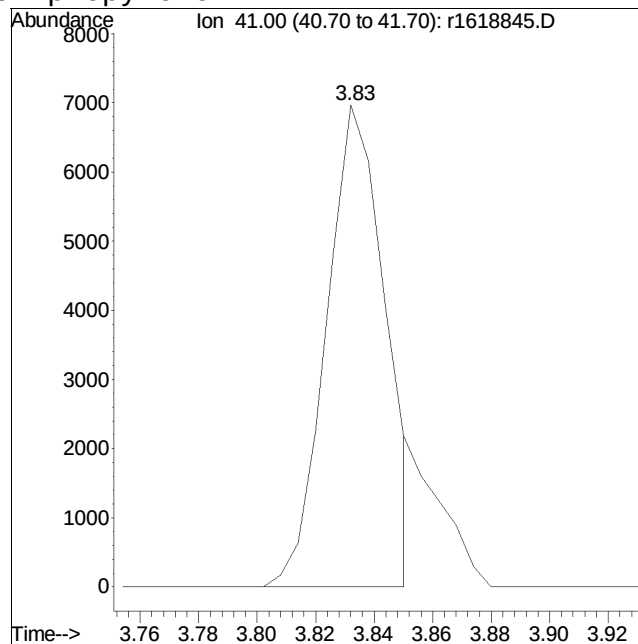
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AirLab16\QMethod : TFS16_200902.M
Data File : r1618845.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:6: 1 Instrument :
Sample : IT015-LLSTD0.5 Quant Date : 9/3/2020 7:34 am

Compound #3: propylene



Original Peak Response = 11258



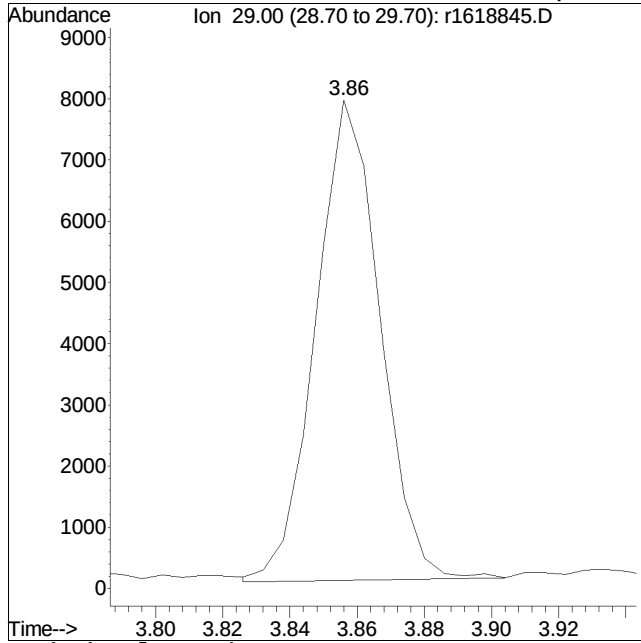
Manual Peak Response = 9801 M4

M4 = Poor automated baseline construction.

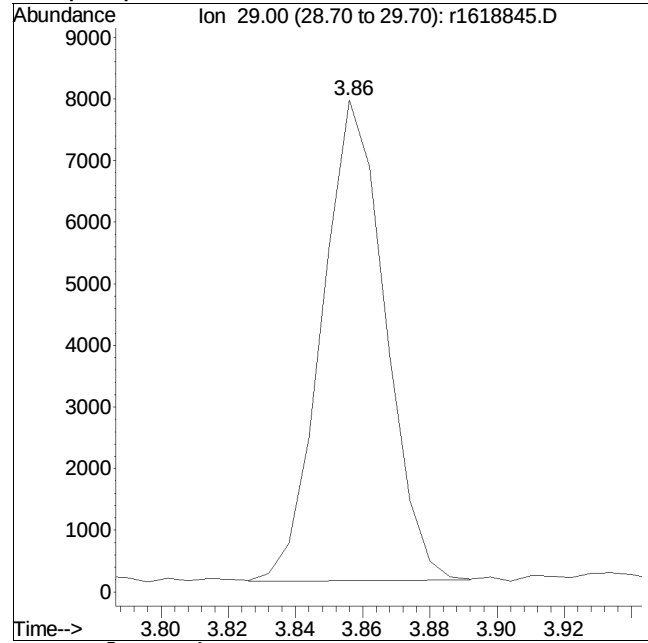
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618845.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:6: 1 Instrument :
Sample : IT015-LLSTD0.5 Quant Date : 9/3/2020 7:34 am

Compound #4: propane



Original Peak Response = 10421



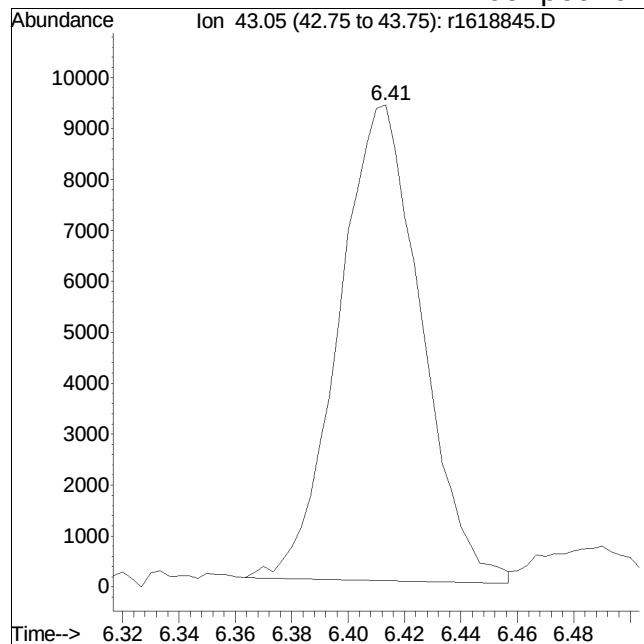
Manual Peak Response = 10206 M4

M4 = Poor automated baseline construction.

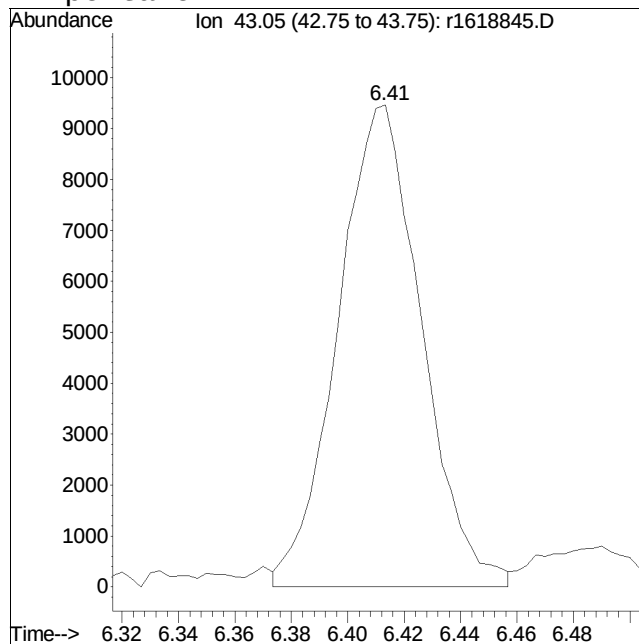
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618845.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:6: 1 Instrument :
Sample : IT015-LLSTD0.5 Quant Date : 9/3/2020 7:34 am

Compound #24: pentane



Original Peak Response = 18950



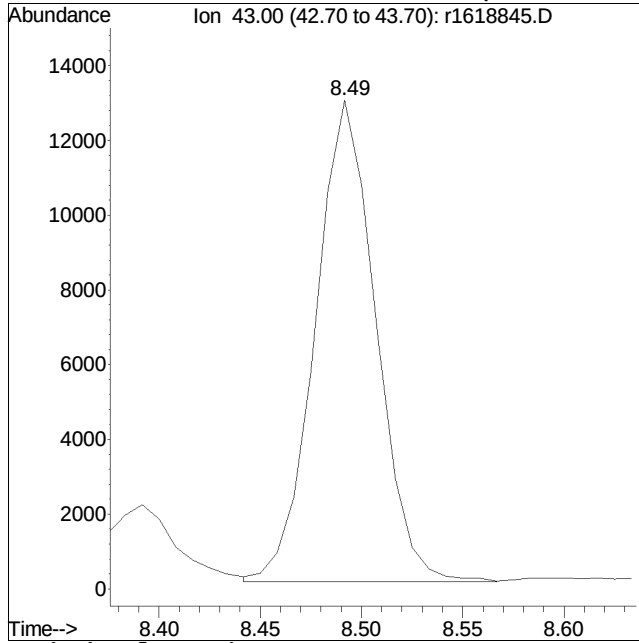
Manual Peak Response = 19468 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

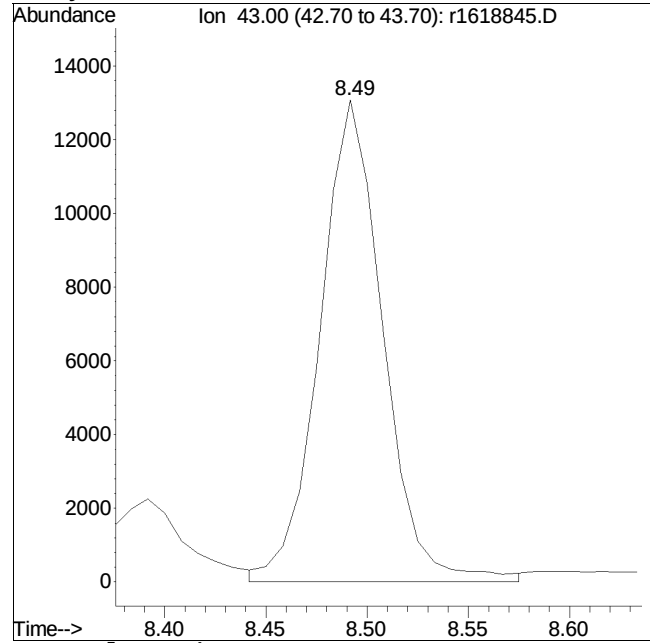
Data Path : 0:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618845.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:6: 1 Instrument :
Sample : IT015-LLSTD0.5 Quant Date : 9/3/2020 7:34 am

Compound #35: vinyl acetate



Original Peak Response = 26871

M4 = Poor automated baseline construction.

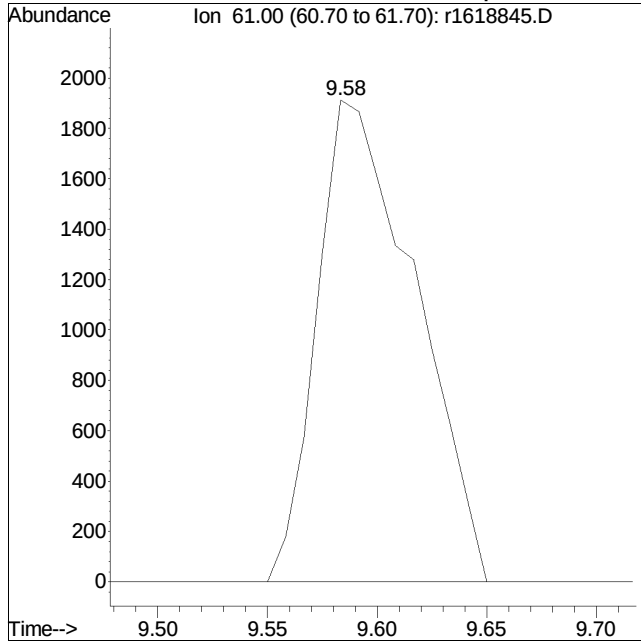


Manual Peak Response = 28387 M4

Manual Integration/Negative Proof Report

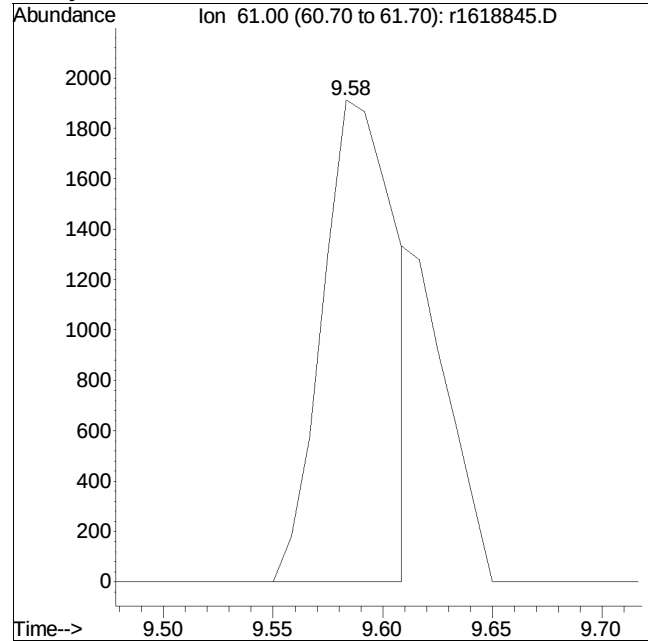
Data Path : 0:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618845.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:6: 1 Instrument :
Sample : IT015-LLSTD0.5 Quant Date : 9/3/2020 7:34 am

Compound #38: Ethyl Acetate



Original Peak Response = 5959

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 4391 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618846.D
 Acq On : 2 Sep 2020 6:44 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD1.0
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:08:36 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.44	49	313220	10.000	ppbV	0.00
Standard Area = 306140			Recovery = 102.31%			
43) 1,4-difluorobenzene	11.71	114	887505	10.000	ppbV	0.00
Standard Area = 891777			Recovery = 99.52%			
67) chlorobenzene-D5	16.43	54	120333	10.000	ppbV	0.00
Standard Area = 120304			Recovery = 100.02%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.32	65	224092	10.321	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.21%			
69) toluene-D8	14.54	98	974870	9.952	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.52%			
90) bromofluorobenzene	17.80	95	623290	9.397	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.97%			
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.80	51	29137	1.163	ppbV #	95
3) propylene	3.83	41	19025M4	1.211	ppbV	
4) propane	3.86	29	20551	1.188	ppbV	98
5) dichlorodifluoromethane	3.91	85	34302	1.223	ppbV	99
6) chloromethane	4.09	50	21180	1.183	ppbV	99
7) Freon-114	4.21	85	48819	1.186	ppbV	100
8) methanol	4.29	31	39243	5.830	ppbV	93
9) vinyl chloride	4.34	62	19548	1.198	ppbV	96
10) 1,3-butadiene	4.50	54	16230	1.130	ppbV	94
11) butane	4.56	43	36845	1.225	ppbV	97
12) acetaldehyde	4.24	29	58310	6.375	ppbV	97
13) bromomethane	4.81	94	17599	1.161	ppbV	96
14) chloroethane	5.03	64	10267	1.190	ppbV	98
15) ethanol	5.22	31	71419	6.174	ppbV	100
16) dichlorofluoromethane	5.16	67	36481	1.187	ppbV	98
17) vinyl bromide	5.45	106	19130	1.155	ppbV	99
18) acrolein	5.62	56	8704	1.201	ppbV	96
19) acetone	5.79	43	165186	6.128	ppbV #	98
20) acetonitrile	5.46	41	18278	1.185	ppbV	97
21) trichlorofluoromethane	5.97	101	28135	1.185	ppbV	98
22) isopropyl alcohol	6.14	45	97591	2.823	ppbV	100
23) acrylonitrile	6.34	53	16301	1.145	ppbV	99
24) pentane	6.41	43	36766	1.125	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618846.D
 Acq On : 2 Sep 2020 6:44 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD1.0
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:08:36 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.48	31	27820	0.902	ppbV	100
26) 1,1-dichloroethene	6.73	61	23525	1.159	ppbV	97
27) tertiary butyl alcohol	6.89	59	27701	1.090	ppbV #	94
28) methylene chloride	6.90	49	25310	1.154	ppbV	97
29) 3-chloropropene	7.04	41	28236	1.166	ppbV	97
30) carbon disulfide	7.18	76	62677	1.085	ppbV #	77
31) Freon 113	7.23	101	37519	1.142	ppbV	98
32) trans-1,2-dichloroethene	8.02	61	26236	1.139	ppbV	98
33) 1,1-dichloroethane	8.26	63	32603	1.137	ppbV	98
34) MTBE	8.38	73	51879	1.130	ppbV	99
35) vinyl acetate	8.49	43	51822	1.101	ppbV	100
36) 2-butanone	8.78	43	50350	1.153	ppbV	99
37) cis-1,2-dichloroethene	9.25	61	22249	1.159	ppbV	97
38) Ethyl Acetate	9.58	61	9002M4	1.264	ppbV	
39) chloroform	9.60	83	34231	1.137	ppbV	98
40) Tetrahydrofuran	10.09	42	33964	1.104	ppbV	99
41) 2,2-dichloropropane	9.62	77	26628	1.127	ppbV	98
42) 1,2-dichloroethane	10.45	62	20390	1.172	ppbV	96
44) hexane	9.52	57	34778	1.180	ppbV #	65
45) diisopropyl ether	9.55	87	21653	1.374	ppbV	94
46) tert-butyl ethyl ether	10.18	59	60614	1.159	ppbV	98
48) 1,1,1-trichloroethane	10.73	97	30557	1.165	ppbV	98
49) 1,1-dichloropropene	11.11	75	30993	1.121	ppbV	99
50) benzene	11.27	78	71575	1.160	ppbV	98
51) thiophene	11.41	84	38273	1.141	ppbV	98
52) carbon tetrachloride	11.43	117	27891	1.148	ppbV	100
53) cyclohexane	11.58	56	36486	1.152	ppbV	100
54) tert-amyl methyl ether	12.00	73	63148	1.141	ppbV	99
55) dibromomethane	12.19	93	21592	1.171	ppbV	98
56) 1,2-dichloropropane	12.22	63	26669	1.168	ppbV	96
57) bromodichloromethane	12.45	83	35373	1.102	ppbV	97
58) 1,4-dioxane	12.53	88	15293	1.067	ppbV #	72
59) trichloroethene	12.50	130	31616	1.141	ppbV	99
60) 2,2,4-trimethylpentane	12.55	57	117751	1.164	ppbV	98
61) methyl methacrylate	12.77	41	43541	1.125	ppbV	98
62) heptane	12.87	43	59361	1.163	ppbV	99
63) cis-1,3-dichloropropene	13.52	75	34358	1.086	ppbV	99
64) 4-methyl-2-pentanone	13.59	43	68822	1.136	ppbV	100
65) trans-1,3-dichloropropene	14.14	75	30577	1.053	ppbV	96
66) 1,1,2-trichloroethane	14.34	97	28269	1.134	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618848.D
 Acq On : 2 Sep 2020 6:44 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD1.0
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:08:36 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	toluene	14.66	91	83270	1.156	ppbV	99
70)	2-methylthiophene	14.73	97	67265	1.149	ppbV	100
71)	1,3-dichloropropane	14.69	76	38010	1.125	ppbV	99
72)	2-hexanone	14.98	43	56707	1.054	ppbV	100
73)	3-methylthiophene	14.93	97	67855	1.126	ppbV	98
74)	dibromochloromethane	15.11	129	39396	1.081	ppbV	100
75)	1,2-dibromoethane	15.36	107	40996	1.090	ppbV	99
76)	butyl acetate	15.63	73	9459	1.026	ppbV	97
77)	octane	15.70	85	27931	1.099	ppbV	95
78)	tetrachloroethene	15.82	166	35199	1.126	ppbV	97
79)	1,1,1,2-tetrachloroethane	16.45	131	31025	1.117	ppbV	97
80)	chlorobenzene	16.47	112	65529	1.094	ppbV	98
81)	ethylbenzene	16.82	91	105125	1.126	ppbV	96
82)	2-ethylthiophene	16.85	97	73352	1.103	ppbV	99
83)	m+p-xylene	16.98	91	172267	2.257	ppbV	96
84)	bromoform	17.05	173	30282	0.961	ppbV	96
85)	styrene	17.31	104	67092	1.037	ppbV	99
86)	1,1,2,2-tetrachloroethane	17.40	83	59114	1.095	ppbV	99
87)	o-xylene	17.40	91	87629	1.135	ppbV	96
88)	1,2,3-trichloropropane	17.52	75	43565	1.060	ppbV	97
89)	nonane	17.60	43	83328	1.102	ppbV	96
91)	isopropylbenzene	17.92	105	114653	1.093	ppbV	99
92)	bromobenzene	17.99	77	54206	1.044	ppbV	100
93)	2-chlorotoluene	18.32	126	31995	1.064	ppbV	99
94)	n-propylbenzene	18.36	120	35118	1.052	ppbV	90
95)	4-chlorotoluene	18.38	126	30429	1.034	ppbV	93
96)	4-ethyl toluene	18.48	105	121480	1.028	ppbV	99
97)	1,3,5-trimethylbenzene	18.54	105	106391	1.078	ppbV	97
98)	tert-butylbenzene	18.89	119	107490	1.113	ppbV	95
99)	1,2,4-trimethylbenzene	18.89	105	101409	1.041	ppbV	90
100)	decane	18.98	57	81220	1.146	ppbV #	97
101)	Benzyl Chloride	19.01	91	46596	0.774	ppbV	100
102)	1,3-dichlorobenzene	19.02	146	63813	1.010	ppbV	95
103)	1,4-dichlorobenzene	19.08	146	58999	0.963	ppbV	95
104)	sec-butylbenzene	19.12	105	146715	1.072	ppbV	99
105)	1,2,3-trimethylbenzene	19.25	105	105210	1.066	ppbV	100
106)	p-isopropyltoluene	19.25	119	130194	1.109	ppbV	96
107)	1,2-dichlorobenzene	19.37	146	60666	1.006	ppbV	99
108)	n-butylbenzene	19.61	91	107052	1.079	ppbV	94
109)	indan	19.43	117	105845	1.055	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618846.D
 Acq On : 2 Sep 2020 6:44 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD1.0
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:08:36 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.50	115	76173	0.969	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.76	75	20133	0.955	ppbV	88
112) undecane	20.03	57	88031	1.112	ppbV	92
113) 1,2,4,5-tetramethylben...	20.27	119	110263	1.039	ppbV	95
114) dodecane	20.95	57	83753	1.032	ppbV	96
115) 1,2,4-trichlorobenzene	20.90	180	25065	0.769	ppbV	96
116) naphthalene	21.02	128	91147	0.846	ppbV	98
117) 1,2,3-trichlorobenzene	21.26	180	30464	0.882	ppbV	96
118) benzothiophene	21.07	134	49224	0.561	ppbV #	95
119) hexachlorobutadiene	21.32	225	35465	1.026	ppbV #	92
120) 2-methylnaphthalene	22.10	142	7880	0.507	ppbV #	93
121) 1-methylnaphthalene	22.29	142	21461	0.462	ppbV	98

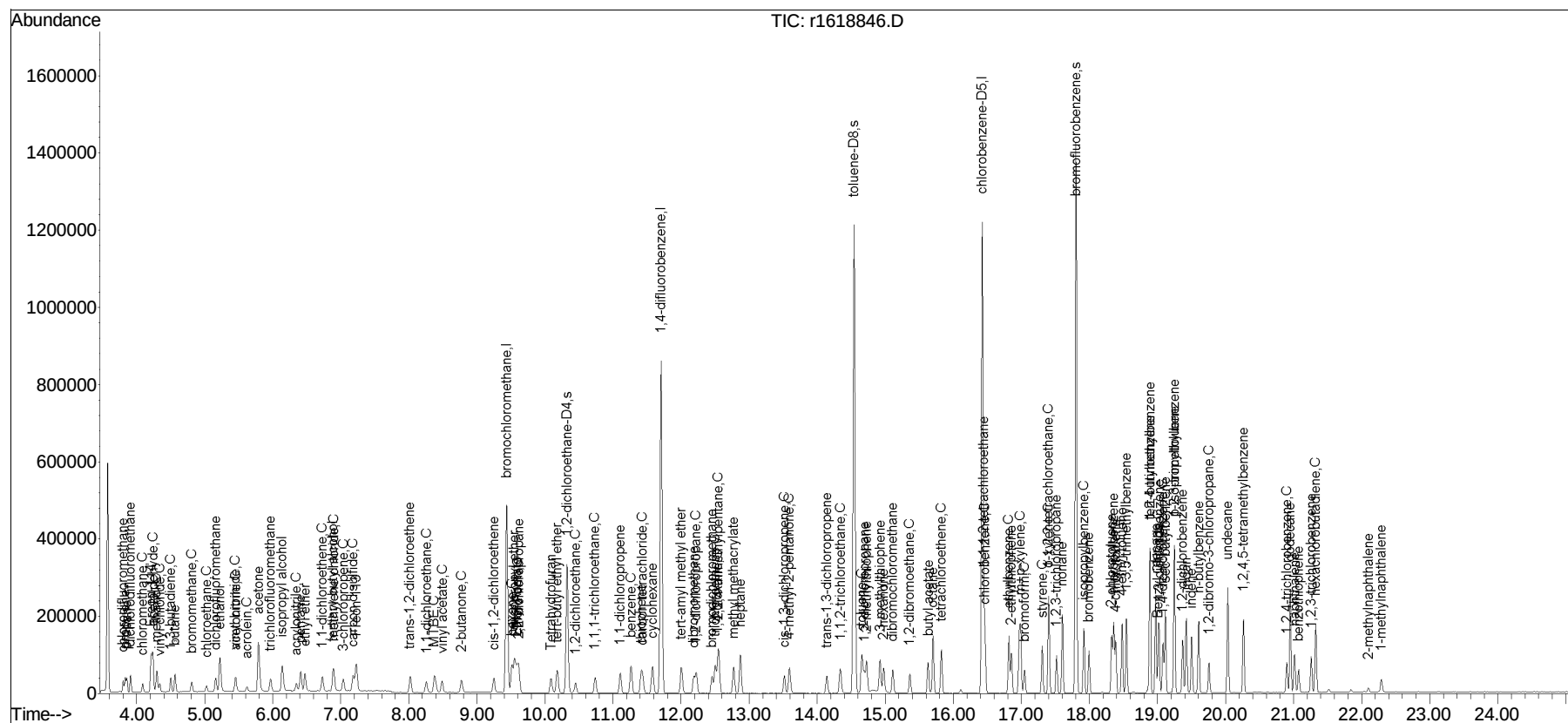
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path   : 0:\Forensics\Data\AirLab16\2020\09\200902T_I\
Data File   : r1618846.D
Acq On      : 2 Sep 2020    6:44 PM
Operator    : AIRLAB16:RY
Sample      : IT015-LLSTD1.0
Misc        : WG1406250
ALS Vial    : 0    Sample Multiplier: 1
```

Quant Time: Sep 03 13:08:36 2020
Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Sep 03 07:34:25 2020
Response via : Initial Calibration

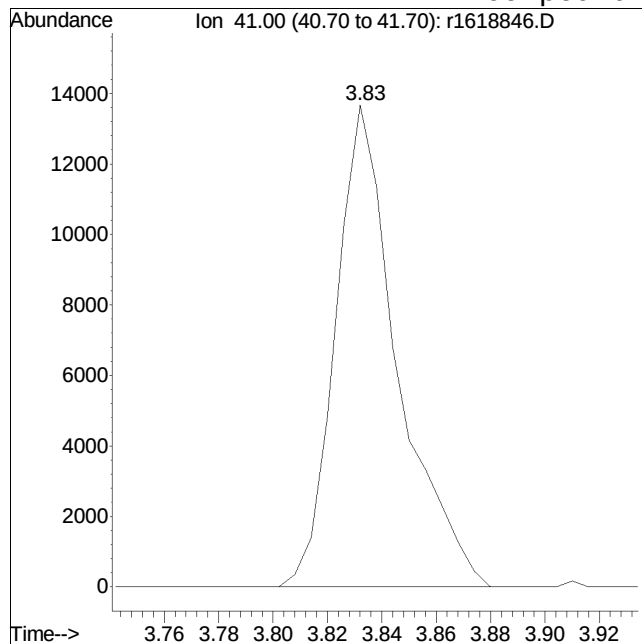
Sub List : Default - All compounds listed0\09\200902T_I\r1618848.D



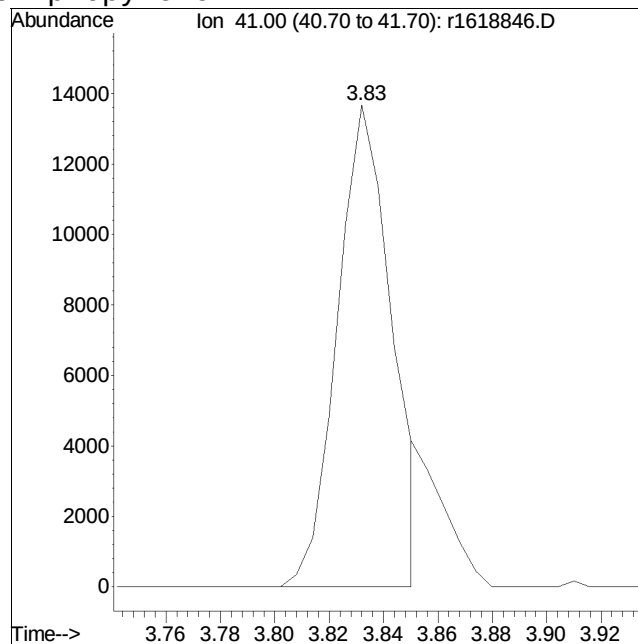
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618846.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:6: 4 Instrument :
Sample : IT015-LLSTD1.0 Quant Date : 9/3/2020 7:34 am

Compound #3: propylene



Original Peak Response = 21681



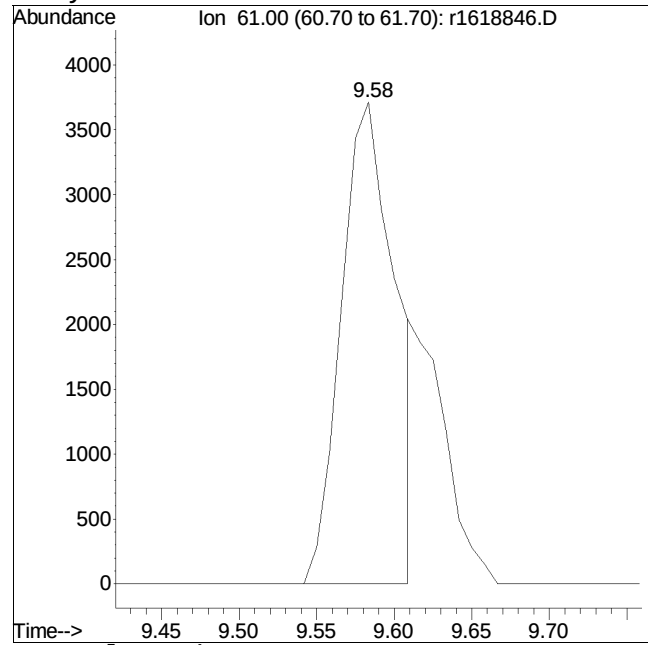
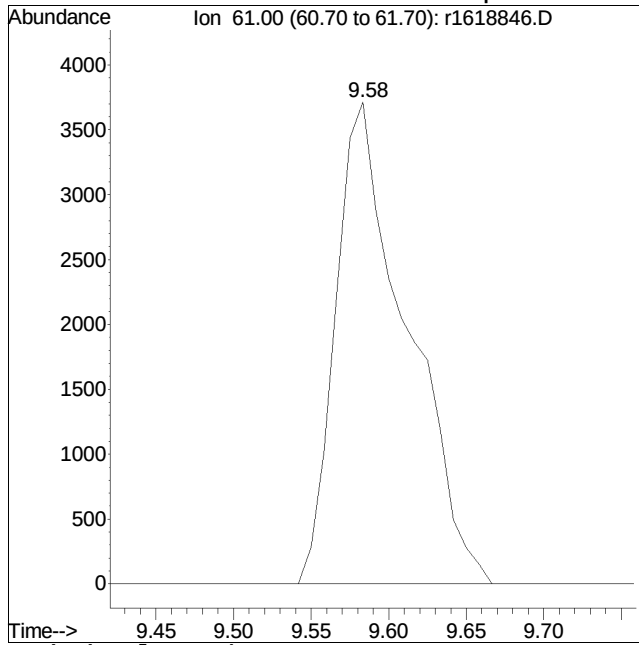
Manual Peak Response = 19025 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618846.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:6: 4 Instrument :
Sample : IT015-LLSTD1.0 Quant Date : 9/3/2020 7:34 am

Compound #38: Ethyl Acetate



Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618847.D
 Acq On : 2 Sep 2020 7:24 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD5.0
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:10:00 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.44	49	308577	10.000	ppbV	0.00
Standard Area = 306140			Recovery =	100.80%		
43) 1,4-difluorobenzene	11.71	114	891125	10.000	ppbV	0.00
Standard Area = 891777			Recovery =	99.93%		
67) chlorobenzene-D5	16.43	54	121457	10.000	ppbV	0.00
Standard Area = 120304			Recovery =	100.96%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.32	65	223091	10.233	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.33%		
69) toluene-D8	14.54	98	989546	10.009	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.09%		
90) bromofluorobenzene	17.81	95	656520	9.807	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.07%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.80	51	125941	5.101	ppbV	97
3) propylene	3.83	41	83060M4	5.366	ppbV	
4) propane	3.86	29	86675	5.084	ppbV	98
5) dichlorodifluoromethane	3.91	85	148681	5.383	ppbV	100
6) chloromethane	4.09	50	91276	5.176	ppbV	99
7) Freon-114	4.21	85	210630	5.195	ppbV	99
8) methanol	4.29	31	168446	25.401	ppbV	97
9) vinyl chloride	4.34	62	84225	5.238	ppbV	97
10) 1,3-butadiene	4.50	54	71549	5.058	ppbV	96
11) butane	4.56	43	157069	5.300	ppbV	98
12) acetaldehyde	4.23	29	234256	25.996	ppbV	97
13) bromomethane	4.81	94	77001	5.155	ppbV	100
14) chloroethane	5.03	64	44361	5.219	ppbV	99
15) ethanol	5.21	31	320090	28.086	ppbV	98
16) dichlorofluoromethane	5.16	67	159094	5.253	ppbV	99
17) vinyl bromide	5.45	106	83761	5.135	ppbV	99
18) acrolein	5.61	56	35721	5.002	ppbV	98
19) acetone	5.77	43	701816	26.426	ppbV	98
20) acetonitrile	5.45	41	79278	5.217	ppbV	97
21) trichlorofluoromethane	5.97	101	122819	5.253	ppbV	97
22) isopropyl alcohol	6.11	45	435505	12.786	ppbV	100
23) acrylonitrile	6.34	53	69332	4.942	ppbV	99
24) pentane	6.41	43	163664	5.081	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618847.D
 Acq On : 2 Sep 2020 7:24 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD5.0
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:10:00 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.46	31	123290	4.056	ppbV	99
26) 1,1-dichloroethene	6.73	61	102443	5.125	ppbV	99
27) tertiary butyl alcohol	6.86	59	128944	5.152	ppbV	98
28) methylene chloride	6.90	49	108866	5.037	ppbV	99
29) 3-chloropropene	7.04	41	121261	5.083	ppbV	99
30) carbon disulfide	7.18	76	283724	4.987	ppbV	97
31) Freon 113	7.23	101	165730	5.119	ppbV	98
32) trans-1,2-dichloroethene	8.03	61	115843	5.106	ppbV	97
33) 1,1-dichloroethane	8.26	63	143476	5.081	ppbV	99
34) MTBE	8.36	73	227657	5.035	ppbV	99
35) vinyl acetate	8.48	43	231574	4.995	ppbV	100
36) 2-butanone	8.75	43	219079	5.094	ppbV	99
37) cis-1,2-dichloroethene	9.25	61	96410	5.096	ppbV	98
38) Ethyl Acetate	9.57	61	37313	5.320	ppbV	88
39) chloroform	9.61	83	148594	5.011	ppbV	99
40) Tetrahydrofuran	10.07	42	151706	5.005	ppbV	99
41) 2,2-dichloropropane	9.62	77	116491	5.006	ppbV	99
42) 1,2-dichloroethane	10.45	62	88106	5.139	ppbV	98
44) hexane	9.52	57	147623	4.988	ppbV	85
45) diisopropyl ether	9.53	87	80969	5.115	ppbV	97
46) tert-butyl ethyl ether	10.17	59	267546	5.095	ppbV	99
48) 1,1,1-trichloroethane	10.74	97	134307	5.100	ppbV	98
49) 1,1-dichloropropene	11.11	75	139122	5.103	ppbV	99
50) benzene	11.27	78	312745	5.050	ppbV	99
51) thiophene	11.41	84	169276	5.025	ppbV	99
52) carbon tetrachloride	11.44	117	123795	5.074	ppbV	98
53) cyclohexane	11.58	56	160363	5.044	ppbV	99
54) tert-amyl methyl ether	11.99	73	278540	5.013	ppbV	98
55) dibromomethane	12.19	93	93333	5.042	ppbV	98
56) 1,2-dichloropropane	12.23	63	115869	5.052	ppbV	99
57) bromodichloromethane	12.45	83	161188	5.002	ppbV	97
58) 1,4-dioxane	12.51	88	71394	4.963	ppbV	97
59) trichloroethene	12.50	130	139853	5.026	ppbV	100
60) 2,2,4-trimethylpentane	12.55	57	515252	5.073	ppbV	99
61) methyl methacrylate	12.77	41	194416	5.003	ppbV	100
62) heptane	12.87	43	260757	5.086	ppbV	100
63) cis-1,3-dichloropropene	13.52	75	157186	4.947	ppbV	99
64) 4-methyl-2-pentanone	13.57	43	304895	5.014	ppbV	100
65) trans-1,3-dichloropropene	14.14	75	142347	4.881	ppbV	97
66) 1,1,2-trichloroethane	14.34	97	125047	4.996	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618847.D
 Acq On : 2 Sep 2020 7:24 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD5.0
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:10:00 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	toluene	14.66	91	362610	4.985	ppbV	100
70)	2-methylthiophene	14.73	97	295516	5.000	ppbV	100
71)	1,3-dichloropropane	14.69	76	167092	4.900	ppbV	99
72)	2-hexanone	14.97	43	258710	4.764	ppbV	100
73)	3-methylthiophene	14.93	97	300421	4.939	ppbV	99
74)	dibromochloromethane	15.11	129	181993	4.947	ppbV	100
75)	1,2-dibromoethane	15.36	107	185513	4.887	ppbV	99
76)	butyl acetate	15.63	73	42787	4.597	ppbV	97
77)	octane	15.70	85	128972	5.028	ppbV	97
78)	tetrachloroethene	15.82	166	157718	4.997	ppbV	98
79)	1,1,1,2-tetrachloroethane	16.45	131	139201	4.964	ppbV	98
80)	chlorobenzene	16.47	112	293516	4.854	ppbV	99
81)	ethylbenzene	16.82	91	468308	4.970	ppbV	97
82)	2-ethylthiophene	16.86	97	331001	4.933	ppbV	98
83)	m+p-xylene	16.98	91	772077	10.023	ppbV	98
84)	bromoform	17.05	173	150554	4.734	ppbV	98
85)	styrene	17.31	104	312760	4.789	ppbV	99
86)	1,1,2,2-tetrachloroethane	17.40	83	268379	4.925	ppbV	99
87)	o-xylene	17.40	91	393764	5.052	ppbV	98
88)	1,2,3-trichloropropane	17.52	75	202224	4.875	ppbV	97
89)	nonane	17.61	43	379608	4.972	ppbV	99
91)	isopropylbenzene	17.92	105	520237	4.915	ppbV	99
92)	bromobenzene	18.00	77	250098	4.773	ppbV	98
93)	2-chlorotoluene	18.32	126	149355	4.922	ppbV	99
94)	n-propylbenzene	18.36	120	166240	4.933	ppbV	97
95)	4-chlorotoluene	18.39	126	143376	4.826	ppbV	94
96)	4-ethyl toluene	18.48	105	574017	4.812	ppbV	99
97)	1,3,5-trimethylbenzene	18.54	105	485218	4.870	ppbV	100
98)	tert-butylbenzene	18.89	119	484776	4.972	ppbV	100
99)	1,2,4-trimethylbenzene	18.89	105	477515	4.854	ppbV	92
100)	decane	18.98	57	360928	5.044	ppbV	99
101)	Benzyl Chloride	19.01	91	258321	4.250	ppbV	100
102)	1,3-dichlorobenzene	19.02	146	305164	4.785	ppbV	98
103)	1,4-dichlorobenzene	19.08	146	284999	4.609	ppbV	97
104)	sec-butylbenzene	19.12	105	675937	4.893	ppbV	98
105)	1,2,3-trimethylbenzene	19.25	105	481567	4.835	ppbV	99
106)	p-isopropyltoluene	19.25	119	599507	5.060	ppbV	99
107)	1,2-dichlorobenzene	19.37	146	292867	4.811	ppbV	98
108)	n-butylbenzene	19.61	91	495386	4.945	ppbV	97
109)	indan	19.43	117	498672	4.923	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618847.D
 Acq On : 2 Sep 2020 7:24 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD5.0
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:10:00 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.50	115	371425	4.680	ppbV	100
111)	1,2-dibromo-3-chloropr...	19.76	75	98859	4.648	ppbV	94
112)	undecane	20.03	57	403124	5.046	ppbV	95
113)	1,2,4,5-tetramethylben...	20.27	119	530606	4.954	ppbV	98
114)	dodecane	20.95	57	411466	5.024	ppbV	99
115)	1,2,4-trichlorobenzene	20.90	180	144322	4.386	ppbV	99
116)	naphthalene	21.01	128	487408	4.482	ppbV	100
117)	1,2,3-trichlorobenzene	21.26	180	158774	4.553	ppbV	98
118)	benzothiophene	21.07	134	361888	4.083	ppbV	98
119)	hexachlorobutadiene	21.32	225	169665	4.861	ppbV	95
120)	2-methylnaphthalene	22.09	142	59110	3.768	ppbV	96
121)	1-methylnaphthalene	22.28	142	189918	4.048	ppbV	98

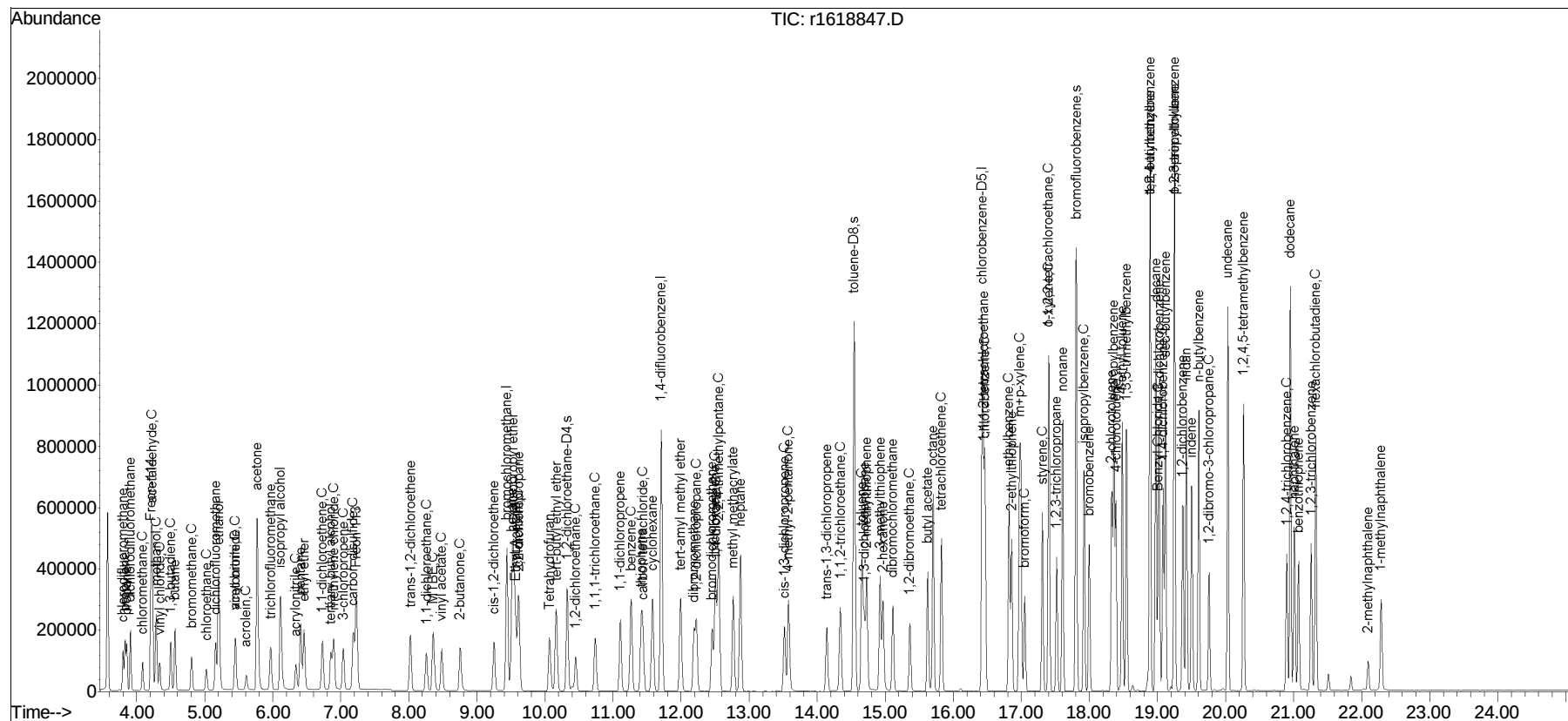
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path   : 0:\Forensics\Data\AirLab16\2020\09\200902T_I\
Data File   : r1618847.D
Acq On      : 2 Sep 2020    7:24 PM
Operator    : AIRLAB16:RY
Sample      : IT015-LLSTD5.0
Misc        : WG1406250
ALS Vial    : 0    Sample Multiplier: 1
```

Quant Time: Sep 03 13:10:00 2020
Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Sep 03 07:34:25 2020
Response via : Initial Calibration

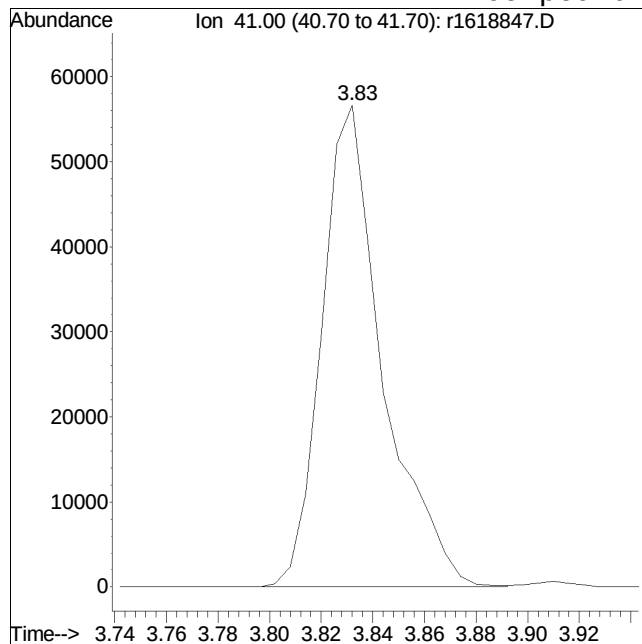
Sub List : Default - All compounds listed0\09\200902T_I\r1618848.D



Manual Integration/Negative Proof Report

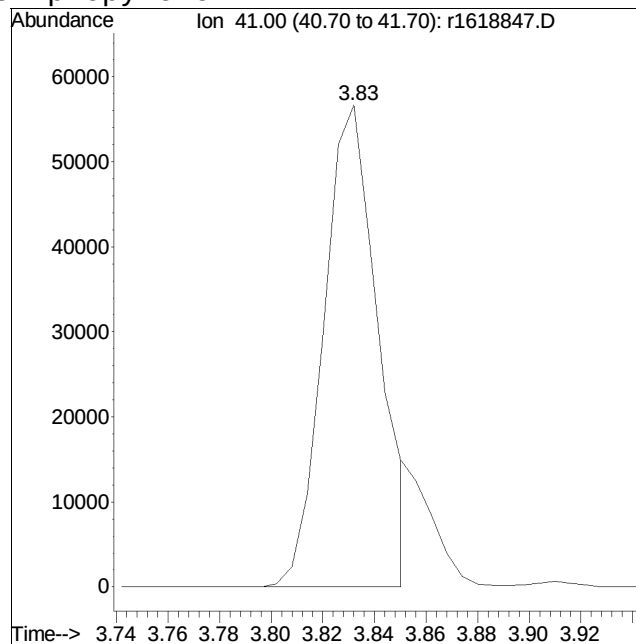
Data Path : 0:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618847.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:7: 4 Instrument :
Sample : IT015-LLSTD5.0 Quant Date : 9/3/2020 7:34 am

Compound #3: propylene



Original Peak Response = 92729

M4 = Poor automated baseline construction.



Manual Peak Response = 83060 M4

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618848.D
 Acq On : 2 Sep 2020 8:06 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD010
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 07:31:18 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Sep 01 07:53:12 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.44	49	306140	10.000	ppbV	0.03
Standard Area = 306140			Recovery =	100.00%		
43) 1,4-difluorobenzene	11.71	114	891777	10.000	ppbV	0.03
Standard Area = 891777			Recovery =	100.00%		
67) chlorobenzene-D5	16.43	54	120304	10.000	ppbV	0.02
Standard Area = 120304			Recovery =	100.00%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.32	65	218162	11.126	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =	111.26%		
69) toluene-D8	14.54	98	979296	11.012	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =	110.12%		
90) bromofluorobenzene	17.80	95	663103	11.143	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery =	111.43%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.80	51	244929	9.335	ppbV	100
3) propylene	3.83	41	153573M4	9.622	ppbV	
4) propane	3.86	29	169137	9.342	ppbV	93
5) dichlorodifluoromethane	3.91	85	274042	9.287	ppbV	100
6) chloromethane	4.09	50	174961	9.427	ppbV	99
7) Freon-114	4.21	85	402266	9.616	ppbV	96
8) methanol	4.29	31	328956	49.253	ppbV	99
9) vinyl chloride	4.34	62	159536	9.943	ppbV	97
10) 1,3-butadiene	4.50	54	140345	9.304	ppbV	89
11) butane	4.56	43	294001	10.356	ppbV	98
12) acetaldehyde	4.23	29	447002	45.710	ppbV	90
13) bromomethane	4.81	94	148200	10.105	ppbV	100
14) chloroethane	5.03	64	84328	10.220	ppbV	99
15) ethanol	5.21	31	565337	47.774	ppbV	90
16) dichlorofluoromethane	5.16	67	300447	10.547	ppbV	99
17) vinyl bromide	5.45	106	161838	10.278	ppbV	100
18) acrolein	5.61	56	70847	9.267	ppbV	99
19) acetone	5.76	43	1317405	53.270	ppbV	93
20) acetonitrile	5.45	41	150747	10.496	ppbV	99
21) trichlorofluoromethane	5.97	101	231970	10.098	ppbV	98
22) isopropyl alcohol	6.10	45	844803	26.841	ppbV	99
23) acrylonitrile	6.34	53	139180	9.334	ppbV	99
24) pentane	6.41	43	319539M6	10.721	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618848.D
 Acq On : 2 Sep 2020 8:06 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD010
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 07:31:18 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Sep 01 07:53:12 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.45	31	301533	11.218	ppbV	93
26) 1,1-dichloroethene	6.73	61	198309	10.130	ppbV	98
27) tertiary butyl alcohol	6.84	59	248300	9.995	ppbV	96
28) methylene chloride	6.90	49	214418	10.090	ppbV	97
29) 3-chloropropene	7.04	41	236660	10.555	ppbV	97
30) carbon disulfide	7.18	76	564425	10.310	ppbV	99
31) Freon 113	7.23	101	321188	10.497	ppbV	96
32) trans-1,2-dichloroethene	8.02	61	225080	10.199	ppbV	97
33) 1,1-dichloroethane	8.26	63	280165	10.438	ppbV	100
34) MTBE	8.35	73	448563	10.128	ppbV	97
35) vinyl acetate	8.48	43	459952	11.410	ppbV	97
36) 2-butanone	8.75	43	426686	11.164	ppbV	97
37) cis-1,2-dichloroethene	9.25	61	187677	10.100	ppbV	98
38) Ethyl Acetate	9.56	61	69588	9.675	ppbV	94
39) chloroform	9.61	83	294210	10.243	ppbV	99
40) Tetrahydrofuran	10.06	42	300741	10.859	ppbV	98
41) 2,2-dichloropropane	9.62	77	230875	10.091	ppbV	93
42) 1,2-dichloroethane	10.45	62	170106	10.413	ppbV	97
44) hexane	9.52	57	296179	10.447	ppbV #	80
45) diisopropyl ether	9.53	87	158403	9.737	ppbV	95
46) tert-butyl ethyl ether	10.16	59	525475	10.370	ppbV	99
48) 1,1,1-trichloroethane	10.73	97	263560	10.409	ppbV	99
49) 1,1-dichloropropene	11.11	75	277717	9.929	ppbV	97
50) benzene	11.27	78	619799	9.475	ppbV	100
51) thiophene	11.41	84	337140	9.888	ppbV	98
52) carbon tetrachloride	11.43	117	244156	9.847	ppbV	99
53) cyclohexane	11.58	56	318173	9.987	ppbV	97
54) tert-amyl methyl ether	11.99	73	555999	9.901	ppbV	98
55) dibromomethane	12.19	93	185252	10.592	ppbV	100
56) 1,2-dichloropropane	12.22	63	229526	10.932	ppbV	99
57) bromodichloromethane	12.45	83	322476	9.931	ppbV	98
58) 1,4-dioxane	12.51	88	143964	10.261	ppbV	100
59) trichloroethene	12.50	130	278490	10.571	ppbV	99
60) 2,2,4-trimethylpentane	12.55	57	1016517	10.257	ppbV	99
61) methyl methacrylate	12.76	41	388859	11.335	ppbV	98
62) heptane	12.87	43	513088	10.692	ppbV	99
63) cis-1,3-dichloropropene	13.52	75	317943	9.907	ppbV	98
64) 4-methyl-2-pentanone	13.57	43	608538	11.067	ppbV	100
65) trans-1,3-dichloropropene	14.14	75	291847	10.102	ppbV	97
66) 1,1,2-trichloroethane	14.34	97	250482	10.763	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618848.D
 Acq On : 2 Sep 2020 8:06 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD010
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 07:31:18 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Sep 01 07:53:12 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	toluene	14.66	91	720430	10.361	ppbV	99
70)	2-methylthiophene	14.73	97	585479	10.550	ppbV	99
71)	1,3-dichloropropane	14.69	76	337744	9.853	ppbV	92
72)	2-hexanone	14.96	43	537894	10.827	ppbV	99
73)	3-methylthiophene	14.93	97	602511	10.641	ppbV	99
74)	dibromochloromethane	15.11	129	364397	10.456	ppbV	98
75)	1,2-dibromoethane	15.36	107	375989	10.360	ppbV	99
76)	butyl acetate	15.62	73	92201	10.332	ppbV	96
77)	octane	15.70	85	254085	10.039	ppbV	97
78)	tetrachloroethene	15.82	166	312638	10.122	ppbV	97
79)	1,1,1,2-tetrachloroethane	16.45	131	277736	10.523	ppbV	98
80)	chlorobenzene	16.47	112	599010	10.188	ppbV	98
81)	ethylbenzene	16.82	91	933251	10.558	ppbV	97
82)	2-ethylthiophene	16.85	97	664668	10.643	ppbV	97
83)	m+p-xylene	16.98	91	1525928	21.358	ppbV	96
84)	bromoform	17.04	173	315039	10.761	ppbV	97
85)	styrene	17.30	104	646927	10.430	ppbV	99
86)	1,1,2,2-tetrachloroethane	17.40	83	539808	10.433	ppbV	98
87)	o-xylene	17.40	91	771981	10.734	ppbV	96
88)	1,2,3-trichloropropane	17.52	75	410887	9.958	ppbV	99
89)	nonane	17.60	43	756252	10.632	ppbV	99
91)	isopropylbenzene	17.92	105	1048483	10.232	ppbV	99
92)	bromobenzene	17.99	77	518963	10.190	ppbV	100
93)	2-chlorotoluene	18.32	126	300580	10.354	ppbV	98
94)	n-propylbenzene	18.35	120	333802	10.457	ppbV	93
95)	4-chlorotoluene	18.38	126	294242	10.855	ppbV	100
96)	4-ethyl toluene	18.48	105	1181474	10.575	ppbV	99
97)	1,3,5-trimethylbenzene	18.54	105	986863	10.433	ppbV	100
98)	tert-butylbenzene	18.88	119	965719	10.626	ppbV	99
99)	1,2,4-trimethylbenzene	18.89	105	974367	10.933	ppbV	97
100)	decane	18.97	57	708822	10.491	ppbV	96
101)	Benzyl Chloride	19.01	91	602104	12.329	ppbV	98
102)	1,3-dichlorobenzene	19.02	146	631726	10.978	ppbV	97
103)	1,4-dichlorobenzene	19.07	146	612492	11.212	ppbV	96
104)	sec-butylbenzene	19.12	105	1368225	10.485	ppbV	99
105)	1,2,3-trimethylbenzene	19.24	105	986567	10.833	ppbV	100
106)	p-isopropyltoluene	19.24	119	1173575	10.641	ppbV	99
107)	1,2-dichlorobenzene	19.37	146	603022	10.830	ppbV	99
108)	n-butylbenzene	19.60	91	992309	11.037	ppbV	100
109)	indan	19.42	117	1003272	10.660	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618848.D
 Acq On : 2 Sep 2020 8:06 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD010
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 07:31:18 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Tue Sep 01 07:53:12 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.50	115	786035	11.095	ppbV	100
111)	1,2-dibromo-3-chloropr...	19.75	75	210674	10.611	ppbV	90
112)	undecane	20.03	57	791276	10.756	ppbV	98
113)	1,2,4,5-tetramethylben...	20.26	119	1060930	11.133	ppbV	97
114)	dodecane	20.95	57	811290	11.738	ppbV	99
115)	1,2,4-trichlorobenzene	20.89	180	325912	12.756	ppbV	97
116)	naphthalene	21.01	128	1077110	11.788	ppbV	99
117)	1,2,3-trichlorobenzene	21.25	180	345389	12.744	ppbV	96
118)	benzothiophene	21.07	134	877991	15.858	ppbV	99
119)	hexachlorobutadiene	21.32	225	345734	11.766	ppbV	98
120)	2-methylnaphthalene	22.09	142	155403	13.646	ppbV	98
121)	1-methylnaphthalene	22.28	142	464714	16.469	ppbV	100

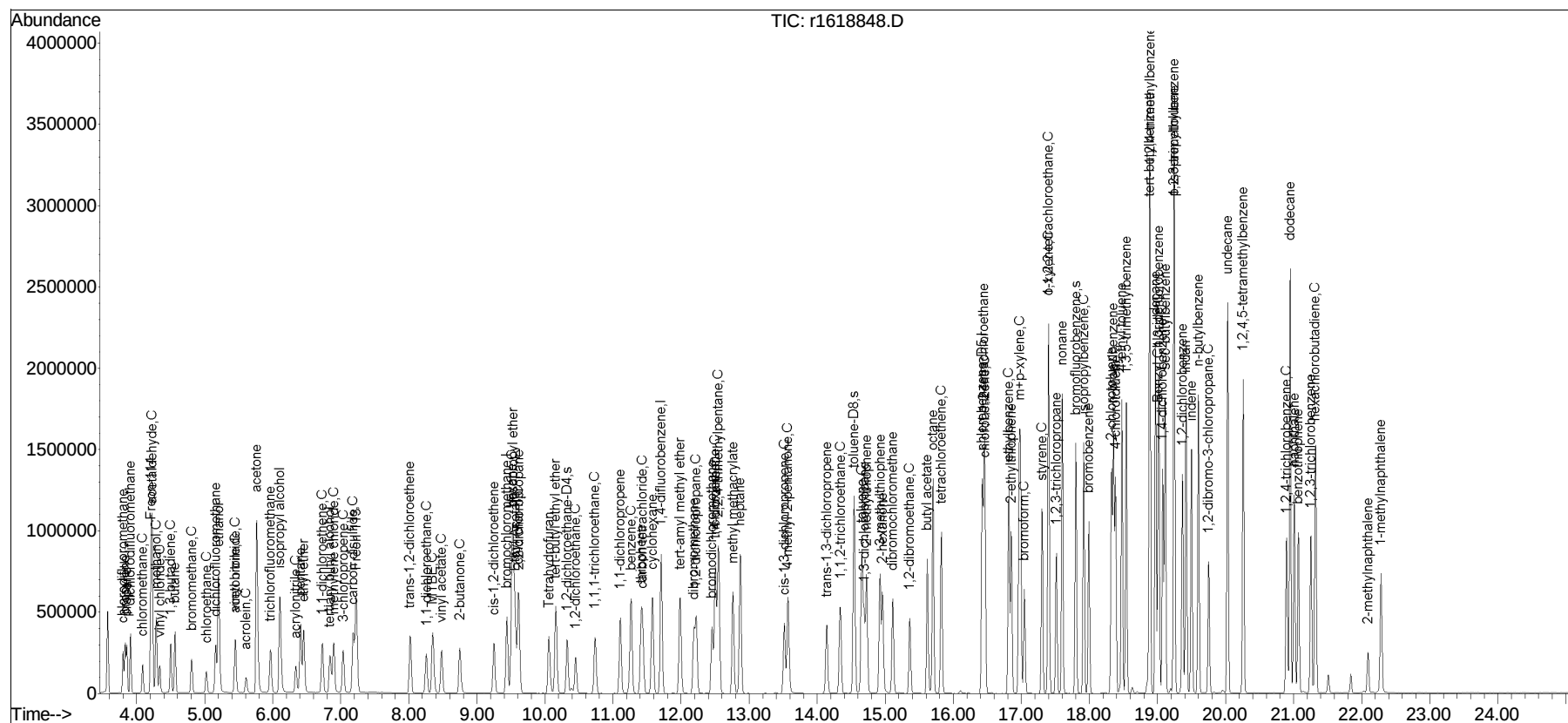
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path   : 0:\Forensics\Data\AirLab16\2020\09\200902T_I\
Data File   : r1618848.D
Acq On      : 2 Sep 2020    8:06 PM
Operator    : AIRLAB16:RY
Sample      : IT015-LLSTD010
Misc        : WG1406250
ALS Vial    : 0    Sample Multiplier: 1
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Quant Time: Sep 03 07:31:18 2020
Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Tue Sep 01 07:53:12 2020
Response via : Initial Calibration

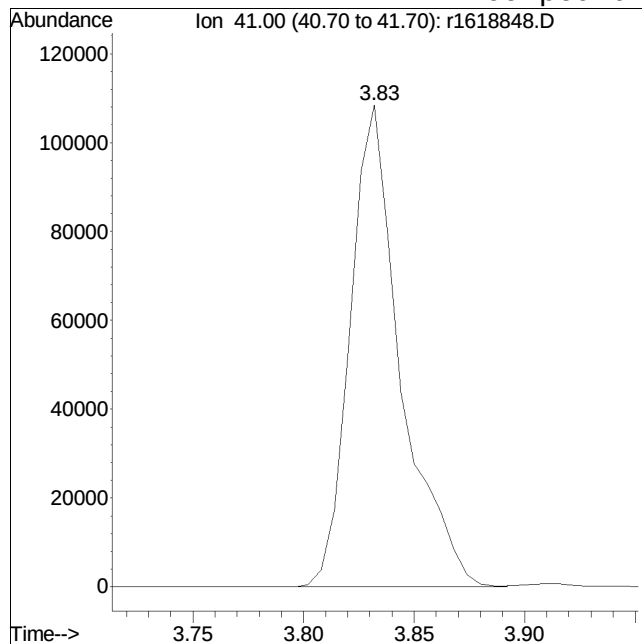
Sub List : Default - All compounds listed0\09\200902T_I\r1618848.D



Manual Integration/Negative Proof Report

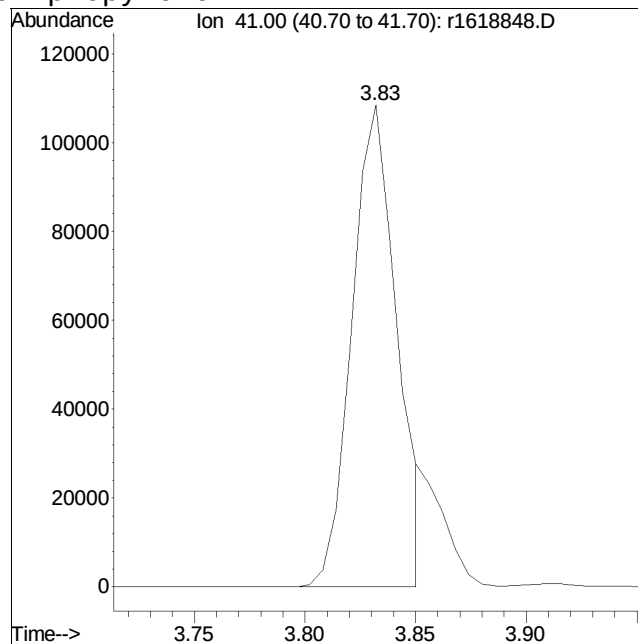
Data Path : 0:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618848.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:8: 6 Instrument :
Sample : IT015-LLSTD010 Quant Date : 9/3/2020 7:29 am

Compound #3: propylene



Original Peak Response = 172500

M4 = Poor automated baseline construction.

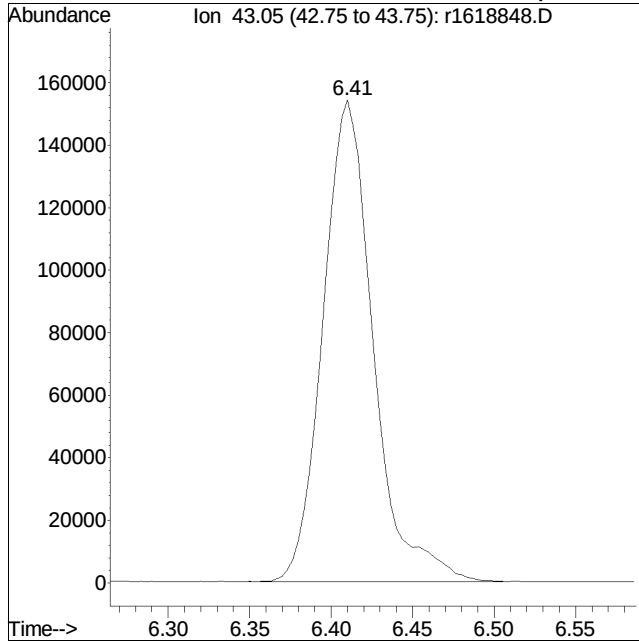


Manual Peak Response = 153573 M4

Manual Integration/Negative Proof Report

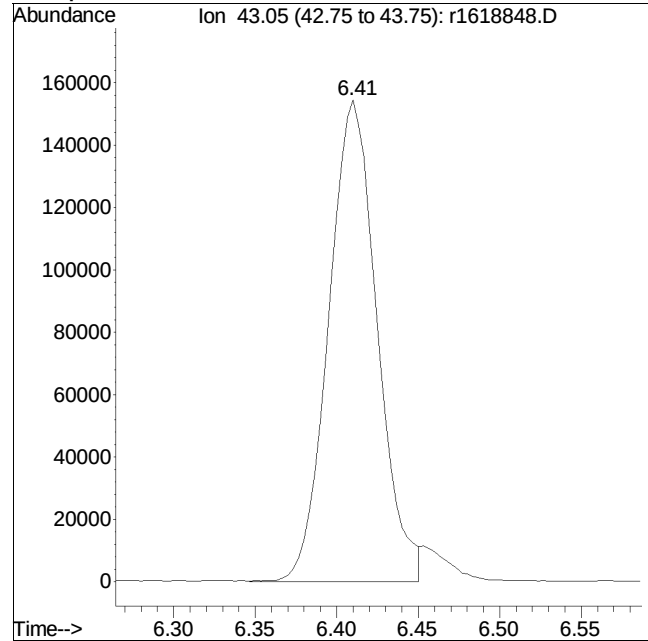
Data Path : 0:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618848.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:8: 6 Instrument :
Sample : IT015-LLSTD010 Quant Date : 9/3/2020 7:29 am

Compound #24: pentane



Original Peak Response = 330698

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 319539 M6

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618849.D
 Acq On : 2 Sep 2020 8:44 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD020
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:14:35 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.44	49	321204	10.000	ppbV	0.00
Standard Area = 306140			Recovery =	104.92%		
43) 1,4-difluorobenzene	11.71	114	898456	10.000	ppbV	0.00
Standard Area = 891777			Recovery =	100.75%		
67) chlorobenzene-D5	16.43	54	120191	10.000	ppbV	0.00
Standard Area = 120304			Recovery =	99.91%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.32	65	213344	9.706	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.06%		
69) toluene-D8	14.54	98	991708	10.136	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.36%		
90) bromofluorobenzene	17.80	95	655249	9.891	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.91%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.80	51	475632	18.508	ppbV	99
3) propylene	3.83	41	297671M4	18.474	ppbV	
4) propane	3.86	29	334196	18.832	ppbV	96
5) dichlorodifluoromethane	3.90	85	520255	18.094	ppbV	99
6) chloromethane	4.08	50	347411	18.925	ppbV	99
7) Freon-114	4.21	85	778469	18.445	ppbV	97
8) methanol	4.28	31	617199	89.412	ppbV	98
9) vinyl chloride	4.34	62	309184	18.471	ppbV	98
10) 1,3-butadiene	4.50	54	278296	18.899	ppbV	94
11) butane	4.56	43	555507	18.009	ppbV	99
12) acetaldehyde	4.22	29	871411	92.901	ppbV	97
13) bromomethane	4.80	94	284074	18.269	ppbV	100
14) chloroethane	5.02	64	161529	18.257	ppbV	100
15) ethanol	5.20	31	1018660	85.868	ppbV	98
16) dichlorofluoromethane	5.16	67	577117	18.308	ppbV	100
17) vinyl bromide	5.45	106	315185	18.562	ppbV	99
18) acrolein	5.60	56	140771	18.938	ppbV	99
19) acetone	5.76	43	2397292	86.718	ppbV	94
20) acetonitrile	5.44	41	287616	18.185	ppbV	98
21) trichlorofluoromethane	5.97	101	437403	17.972	ppbV	97
22) isopropyl alcohol	6.10	45	1593524	44.945	ppbV	99
23) acrylonitrile	6.34	53	278146	19.047	ppbV	98
24) pentane	6.41	43	609614M4	18.183	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618849.D
 Acq On : 2 Sep 2020 8:44 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD020
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:14:35 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.45	31	582736	18.419	ppbV	98
26) 1,1-dichloroethene	6.73	61	386815	18.591	ppbV	99
27) tertiary butyl alcohol	6.83	59	483611	18.563	ppbV	99
28) methylene chloride	6.89	49	422614	18.785	ppbV	99
29) 3-chloropropene	7.03	41	464256	18.697	ppbV	98
30) carbon disulfide	7.18	76	1123949	18.979	ppbV	99
31) Freon 113	7.22	101	629475	18.679	ppbV	98
32) trans-1,2-dichloroethene	8.02	61	447191	18.936	ppbV	100
33) 1,1-dichloroethane	8.26	63	556384	18.928	ppbV	100
34) MTBE	8.34	73	884273	18.789	ppbV	99
35) vinyl acetate	8.47	43	918025	19.023	ppbV	99
36) 2-butanone	8.74	43	838806	18.737	ppbV	98
37) cis-1,2-dichloroethene	9.25	61	384845	19.544	ppbV	99
38) Ethyl Acetate	9.56	61	140900	19.298	ppbV	85
39) chloroform	9.61	83	585900	18.980	ppbV	100
40) Tetrahydrofuran	10.05	42	596974	18.919	ppbV	98
41) 2,2-dichloropropane	9.62	77	460958	19.029	ppbV	98
42) 1,2-dichloroethane	10.45	62	332158	18.611	ppbV	99
44) hexane	9.51	57	602773	20.200	ppbV	83
45) diisopropyl ether	9.53	87	321048	20.117	ppbV	92
46) tert-butyl ethyl ether	10.16	59	1033375	19.519	ppbV	99
48) 1,1,1-trichloroethane	10.73	97	518045	19.510	ppbV	99
49) 1,1-dichloropropene	11.11	75	560508	20.033	ppbV	97
50) benzene	11.27	78	1277136	20.452	ppbV	100
51) thiophene	11.41	84	689041	20.286	ppbV	99
52) carbon tetrachloride	11.43	117	485207	19.725	ppbV	99
53) cyclohexane	11.58	56	636075	19.843	ppbV	96
54) tert-amyl methyl ether	11.98	73	1125585	20.094	ppbV	99
55) dibromomethane	12.19	93	365136	19.564	ppbV	98
56) 1,2-dichloropropane	12.22	63	451720	19.534	ppbV	100
57) bromodichloromethane	12.45	83	648375	19.957	ppbV	99
58) 1,4-dioxane	12.50	88	283412	19.540	ppbV	98
59) trichloroethene	12.50	130	560973	19.994	ppbV	96
60) 2,2,4-trimethylpentane	12.55	57	2009171	19.618	ppbV	99
61) methyl methacrylate	12.76	41	764216	19.507	ppbV	97
62) heptane	12.87	43	1014312	19.622	ppbV	100
63) cis-1,3-dichloropropene	13.52	75	663339	20.708	ppbV	98
64) 4-methyl-2-pentanone	13.57	43	1207097	19.689	ppbV	99
65) trans-1,3-dichloropropene	14.14	75	599417	20.386	ppbV	99
66) 1,1,2-trichloroethane	14.34	97	498905	19.770	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618849.D
 Acq On : 2 Sep 2020 8:44 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD020
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:14:35 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.66	91	1428138	19.842	ppbV	100
70) 2-methylthiophene	14.73	97	1172689	20.048	ppbV	100
71) 1,3-dichloropropane	14.69	76	689649	20.438	ppbV	95
72) 2-hexanone	14.96	43	1064324	19.805	ppbV	99
73) 3-methylthiophene	14.93	97	1208064	20.069	ppbV	100
74) dibromochloromethane	15.11	129	717900	19.720	ppbV	98
75) 1,2-dibromoethane	15.36	107	766005	20.392	ppbV	100
76) butyl acetate	15.62	73	189764	20.601	ppbV	95
77) octane	15.70	85	514023	20.249	ppbV	94
78) tetrachloroethene	15.82	166	628588	20.125	ppbV	96
79) 1,1,1,2-tetrachloroethane	16.45	131	542655	19.557	ppbV	99
80) chlorobenzene	16.47	112	1230810	20.567	ppbV	99
81) ethylbenzene	16.82	91	1856012	19.906	ppbV	98
82) 2-ethylthiophene	16.85	97	1328416	20.005	ppbV	98
83) m+p-xylene	16.98	91	2970460	38.970	ppbV	94
84) bromoform	17.04	173	633901	20.140	ppbV	98
85) styrene	17.31	104	1343638	20.789	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.40	83	1085723	20.132	ppbV	97
87) o-xylene	17.40	91	1482605	19.223	ppbV	96
88) 1,2,3-trichloropropane	17.52	75	847287	20.640	ppbV	98
89) nonane	17.60	43	1496542	19.808	ppbV	100
91) isopropylbenzene	17.92	105	2116170	20.202	ppbV	98
92) bromobenzene	17.99	77	1077072	20.774	ppbV	99
93) 2-chlorotoluene	18.32	126	608990	20.280	ppbV	93
94) n-propylbenzene	18.36	120	680071	20.393	ppbV	92
95) 4-chlorotoluene	18.38	126	587652	19.991	ppbV	98
96) 4-ethyl toluene	18.48	105	2359184	19.987	ppbV	98
97) 1,3,5-trimethylbenzene	18.54	105	1978594	20.068	ppbV	99
98) tert-butylbenzene	18.88	119	1880542	19.491	ppbV	99
99) 1,2,4-trimethylbenzene	18.89	105	1892558	19.442	ppbV	98
100) decane	18.98	57	1365203	19.278	ppbV	98
101) Benzyl Chloride	19.01	91	1229442	20.438	ppbV	96
102) 1,3-dichlorobenzene	19.02	146	1293241	20.491	ppbV	99
103) 1,4-dichlorobenzene	19.07	146	1248468	20.403	ppbV	99
104) sec-butylbenzene	19.12	105	2752048	20.133	ppbV	100
105) 1,2,3-trimethylbenzene	19.25	105	1894400	19.220	ppbV	99
106) p-isopropyltoluene	19.24	119	2265170	19.320	ppbV	100
107) 1,2-dichlorobenzene	19.37	146	1229292	20.405	ppbV	98
108) n-butylbenzene	19.60	91	1923838	19.406	ppbV	98
109) indan	19.42	117	2013635	20.090	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618849.D
 Acq On : 2 Sep 2020 8:44 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD020
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:14:35 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.50	115	1596703	20.332	ppbV	99
111)	1,2-dibromo-3-chloropr...	19.75	75	417366	19.830	ppbV	96
112)	undecane	20.03	57	1494881	18.910	ppbV	97
113)	1,2,4,5-tetramethylben...	20.26	119	2132348	20.118	ppbV	99
114)	dodecane	20.95	57	1278573	15.775	ppbV	97
115)	1,2,4-trichlorobenzene	20.90	180	631185	19.385	ppbV	97
116)	naphthalene	21.01	128	1930750	17.942	ppbV	100
117)	1,2,3-trichlorobenzene	21.26	180	600257	17.395	ppbV	97
118)	benzothiophene	21.07	134	1341554	15.294	ppbV	100
119)	hexachlorobutadiene	21.32	225	582465	16.863	ppbV	98
120)	2-methylnaphthalene	22.09	142	183130	11.795	ppbV	98
121)	1-methylnaphthalene	22.28	142	384796	8.288	ppbV	98

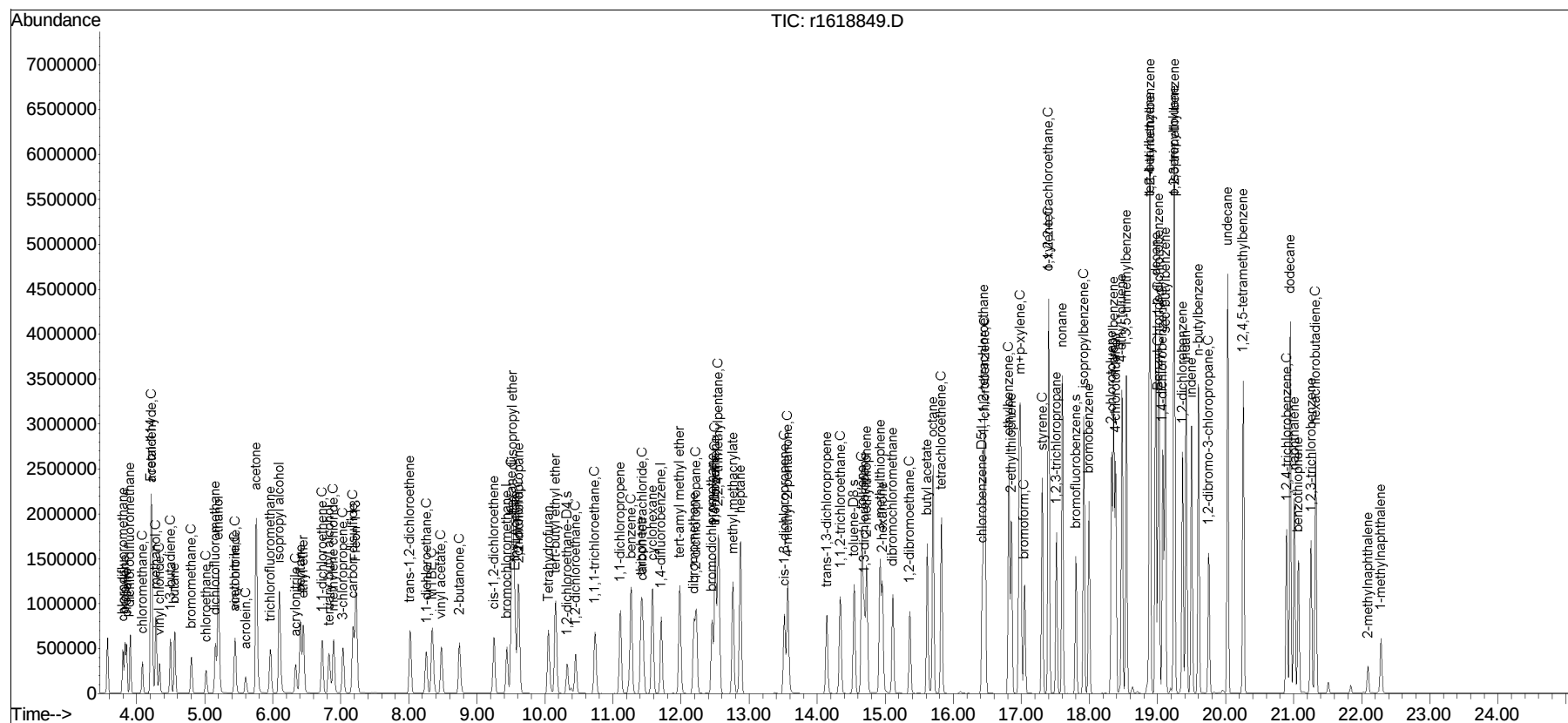
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AirLab16\2020\09\200902T_I\
 Data File : r1618849.D
 Acq On : 2 Sep 2020 8:44 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD020
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:14:35 2020
 Quant Method : 0:\Forensics\Data\AirLab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

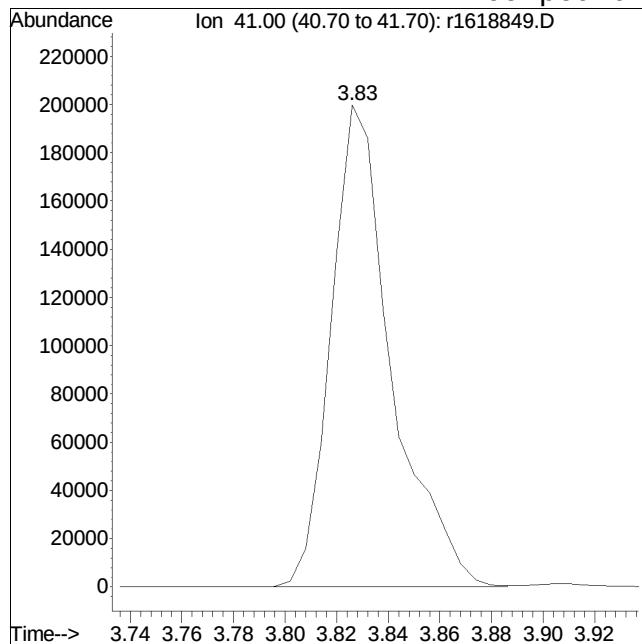
Sub List : Default - All compounds listed 0\09\200902T_I\r1618848.D



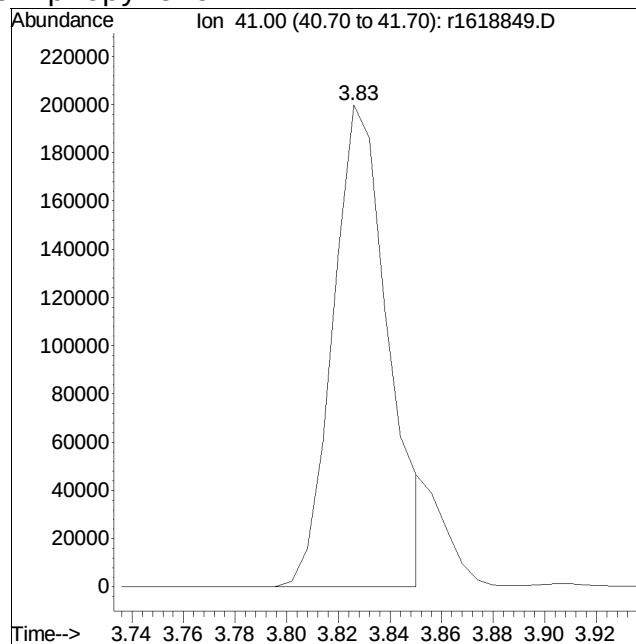
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AirLab16\QMethod : TFS16_200902.M
Data File : r1618849.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:8: 4 Instrument :
Sample : IT015-LLSTD020 Quant Date : 9/3/2020 7:35 am

Compound #3: propylene



Original Peak Response = 325232



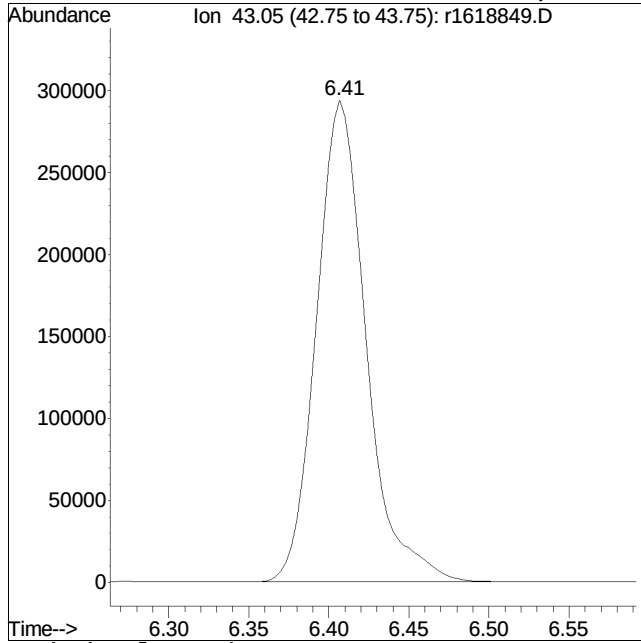
Manual Peak Response = 297671 M4

M4 = Poor automated baseline construction.

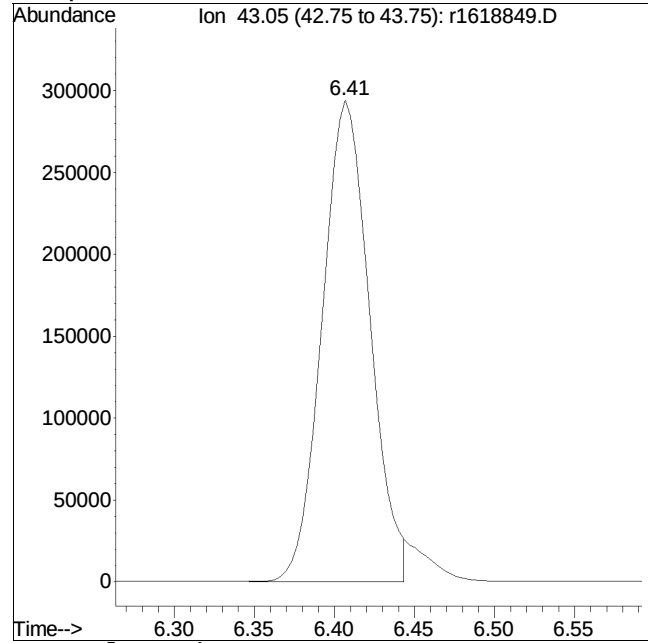
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618849.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:8: 4 Instrument :
Sample : IT015-LLSTD020 Quant Date : 9/3/2020 7:35 am

Compound #24: pentane



Original Peak Response = 632468



Manual Peak Response = 609614 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618850.D
 Acq On : 2 Sep 2020 9:24 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD050
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:16:38 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.44	49	309103	10.000	ppbV	0.00
Standard Area = 306140			Recovery =	100.97%		
43) 1,4-difluorobenzene	11.71	114	931147	10.000	ppbV	0.00
Standard Area = 891777			Recovery =	104.41%		
67) chlorobenzene-D5	16.43	54	118797	10.000	ppbV	0.00
Standard Area = 120304			Recovery =	98.75%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.32	65	196770	8.638	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	86.38%		
69) toluene-D8	14.54	98	952808	9.853	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.53%		
90) bromofluorobenzene	17.80	95	653810	9.985	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.85%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.80	51	1119209	45.257	ppbV	98
3) propylene	3.83	41	643631M4	41.509	ppbV	
4) propane	3.86	29	784446	45.935	ppbV	95
5) dichlorodifluoromethane	3.91	85	1185283	42.837	ppbV	100
6) chloromethane	4.09	50	798303	45.190	ppbV	99
7) Freon-114	4.21	85	1728615	42.560	ppbV	98
8) methanol	4.29	31	1452652	218.681	ppbV	97
9) vinyl chloride	4.34	62	702413	43.606	ppbV	97
10) 1,3-butadiene	4.50	54	650343	45.895	ppbV	90
11) butane	4.56	43	1207665	40.683	ppbV	99
12) acetaldehyde	4.23	29	1943933	215.357	ppbV	92
13) bromomethane	4.81	94	642749	42.955	ppbV	99
14) chloroethane	5.03	64	361446	42.451	ppbV	99
15) ethanol	5.21	31	2382823	208.723	ppbV	93
16) dichlorofluoromethane	5.16	67	1234165	40.684	ppbV	99
17) vinyl bromide	5.45	106	688888	42.158	ppbV	100
18) acrolein	5.60	56	332135	46.431	ppbV	98
19) acetone	5.76	43	4855306	182.509	ppbV #	86
20) acetonitrile	5.45	41	621994	40.865	ppbV	100
21) trichlorofluoromethane	5.97	101	922366	39.381	ppbV	98
22) isopropyl alcohol	6.10	45	3349649	98.175	ppbV	98
23) acrylonitrile	6.34	53	650192	46.268	ppbV	99
24) pentane	6.41	43	1297811M4	40.226	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618850.D
 Acq On : 2 Sep 2020 9:24 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD050
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:16:38 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.45	31	1412273	46.387	ppbV	96
26) 1,1-dichloroethene	6.73	61	845510	42.227	ppbV	100
27) tertiary butyl alcohol	6.82	59	1080107	43.083	ppbV	96
28) methylene chloride	6.90	49	949402	43.854	ppbV	97
29) 3-chloropropene	7.04	41	993582	41.581	ppbV	97
30) carbon disulfide	7.18	76	2484558	43.597	ppbV	97
31) Freon 113	7.22	101	1351499	41.675	ppbV	96
32) trans-1,2-dichloroethene	8.03	61	991256	43.618	ppbV	99
33) 1,1-dichloroethane	8.26	63	1220274	43.138	ppbV	100
34) MTBE	8.34	73	1944042	42.924	ppbV	97
35) vinyl acetate	8.48	43	2010808	43.299	ppbV	97
36) 2-butanone	8.74	43	1830090	42.480	ppbV	96
37) cis-1,2-dichloroethene	9.25	61	843184	44.497	ppbV	98
38) Ethyl Acetate	9.56	61	275236	39.173	ppbV	66
39) chloroform	9.61	83	1218402	41.016	ppbV	98
40) Tetrahydrofuran	10.05	42	1368902	45.081	ppbV	97
41) 2,2-dichloropropane	9.62	77	948874	40.705	ppbV	90
42) 1,2-dichloroethane	10.45	62	720630	41.957	ppbV	95
44) hexane	9.51	57	1227795	39.702	ppbV #	70
45) diisopropyl ether	9.53	87	652860	39.473	ppbV	69
46) tert-butyl ethyl ether	10.16	59	2287285	41.688	ppbV	97
48) 1,1,1-trichloroethane	10.73	97	1138793	41.381	ppbV	98
49) 1,1-dichloropropene	11.11	75	1316338	45.394	ppbV	93
50) benzene	11.27	78	3046374	47.073	ppbV	100
51) thiophene	11.41	84	1627644	46.237	ppbV	97
52) carbon tetrachloride	11.44	117	1077121	42.251	ppbV	98
53) cyclohexane	11.58	56	1490411	44.862	ppbV	93
54) tert-amyl methyl ether	11.98	73	2604009	44.855	ppbV	97
55) dibromomethane	12.19	93	810787	41.916	ppbV	98
56) 1,2-dichloropropane	12.23	63	1004684	41.921	ppbV	99
57) bromodichloromethane	12.45	83	1488076	44.194	ppbV	98
58) 1,4-dioxane	12.50	88	669172	44.517	ppbV	97
59) trichloroethene	12.50	130	1253390	43.104	ppbV	98
60) 2,2,4-trimethylpentane	12.55	57	4554907	42.914	ppbV	96
61) methyl methacrylate	12.76	41	1677708	41.320	ppbV	94
62) heptane	12.87	43	2216638	41.375	ppbV	97
63) cis-1,3-dichloropropene	13.52	75	1576358	47.484	ppbV	94
64) 4-methyl-2-pentanone	13.57	43	2689536	42.328	ppbV	97
65) trans-1,3-dichloropropene	14.14	75	1409794	46.263	ppbV	95
66) 1,1,2-trichloroethane	14.34	97	1124171	42.983	ppbV	93

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618850.D
 Acq On : 2 Sep 2020 9:24 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD050
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:16:38 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	toluene	14.66	91	3182032	44.729	ppbV	100
70)	2-methylthiophene	14.73	97	2612741	45.192	ppbV	99
71)	1,3-dichloropropane	14.69	76	1606059	48.156	ppbV	89
72)	2-hexanone	14.96	43	2425484	45.664	ppbV	95
73)	3-methylthiophene	14.93	97	2649647	44.535	ppbV	99
74)	dibromochloromethane	15.12	129	1575426	43.782	ppbV	98
75)	1,2-dibromoethane	15.37	107	1718366	46.282	ppbV	99
76)	butyl acetate	15.62	73	457675	50.269	ppbV	85
77)	octane	15.70	85	1179668	47.017	ppbV	81
78)	tetrachloroethene	15.82	166	1429569	46.306	ppbV	92
79)	1,1,1,2-tetrachloroethane	16.45	131	1158505	42.242	ppbV	97
80)	chlorobenzene	16.47	112	2787472	47.125	ppbV	97
81)	ethylbenzene	16.82	91	4027747	43.706	ppbV	93
82)	2-ethylthiophene	16.85	97	2926533	44.589	ppbV	92
83)	m+p-xylene	16.98	91	6250679	82.966	ppbV	92
84)	bromoform	17.05	173	1434826	46.122	ppbV	98
85)	styrene	17.31	104	3106414	48.627	ppbV	99
86)	1,1,2,2-tetrachloroethane	17.40	83	2462944	46.205	ppbV	97
87)	o-xylene	17.40	91	3058570	40.122	ppbV	94
88)	1,2,3-trichloropropane	17.52	75	2004053	49.393	ppbV	97
89)	nonane	17.60	43	3148605	42.162	ppbV	92
91)	isopropylbenzene	17.92	105	4631661	44.735	ppbV	94
92)	bromobenzene	17.99	77	2535896	49.485	ppbV	97
93)	2-chlorotoluene	18.32	126	1402237	47.243	ppbV	82
94)	n-propylbenzene	18.35	120	1578610	47.892	ppbV	75
95)	4-chlorotoluene	18.38	126	1363821	46.938	ppbV	89
96)	4-ethyl toluene	18.48	105	5153374	44.171	ppbV	94
97)	1,3,5-trimethylbenzene	18.54	105	4252169	43.634	ppbV	92
98)	tert-butylbenzene	18.88	119	3940757	41.324	ppbV	98
99)	1,2,4-trimethylbenzene	18.89	105	3770269	39.185	ppbV	93
100)	decane	18.98	57	3011678	43.027	ppbV	91
101)	Benzyl Chloride	19.01	91	2884178	48.509	ppbV	92
102)	1,3-dichlorobenzene	19.02	146	2888043	46.297	ppbV	97
103)	1,4-dichlorobenzene	19.08	146	2916166	48.215	ppbV	98
104)	sec-butylbenzene	19.12	105	5870330	43.449	ppbV	96
105)	1,2,3-trimethylbenzene	19.25	105	3750782	38.501	ppbV	92
106)	p-isopropyltoluene	19.25	119	4696347	40.525	ppbV	97
107)	1,2-dichlorobenzene	19.37	146	2841583	47.720	ppbV	98
108)	n-butylbenzene	19.60	91	4166119	42.517	ppbV	95
109)	indan	19.43	117	4561638	46.044	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618850.D
 Acq On : 2 Sep 2020 9:24 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD050
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:16:38 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.50	115	3780929	48.711	ppbV	98
111)	1,2-dibromo-3-chloropr...	19.76	75	998243	47.984	ppbV	96
112)	undecane	20.03	57	3311469	42.381	ppbV	91
113)	1,2,4,5-tetramethylben...	20.26	119	4474096	42.706	ppbV	99
114)	dodecane	20.95	57	3094911	38.632	ppbV	86
115)	1,2,4-trichlorobenzene	20.90	180	1684448	52.340	ppbV	99
116)	naphthalene	21.02	128	4909834	46.162	ppbV	100
117)	1,2,3-trichlorobenzene	21.26	180	1586533	46.517	ppbV	100
118)	benzothiophene	21.07	134	3717874	42.882	ppbV	99
119)	hexachlorobutadiene	21.32	225	1347279	39.463	ppbV	98
120)	2-methylnaphthalene	22.09	142	645451	42.061	ppbV	98
121)	1-methylnaphthalene	22.28	142	1264373	27.553	ppbV	98

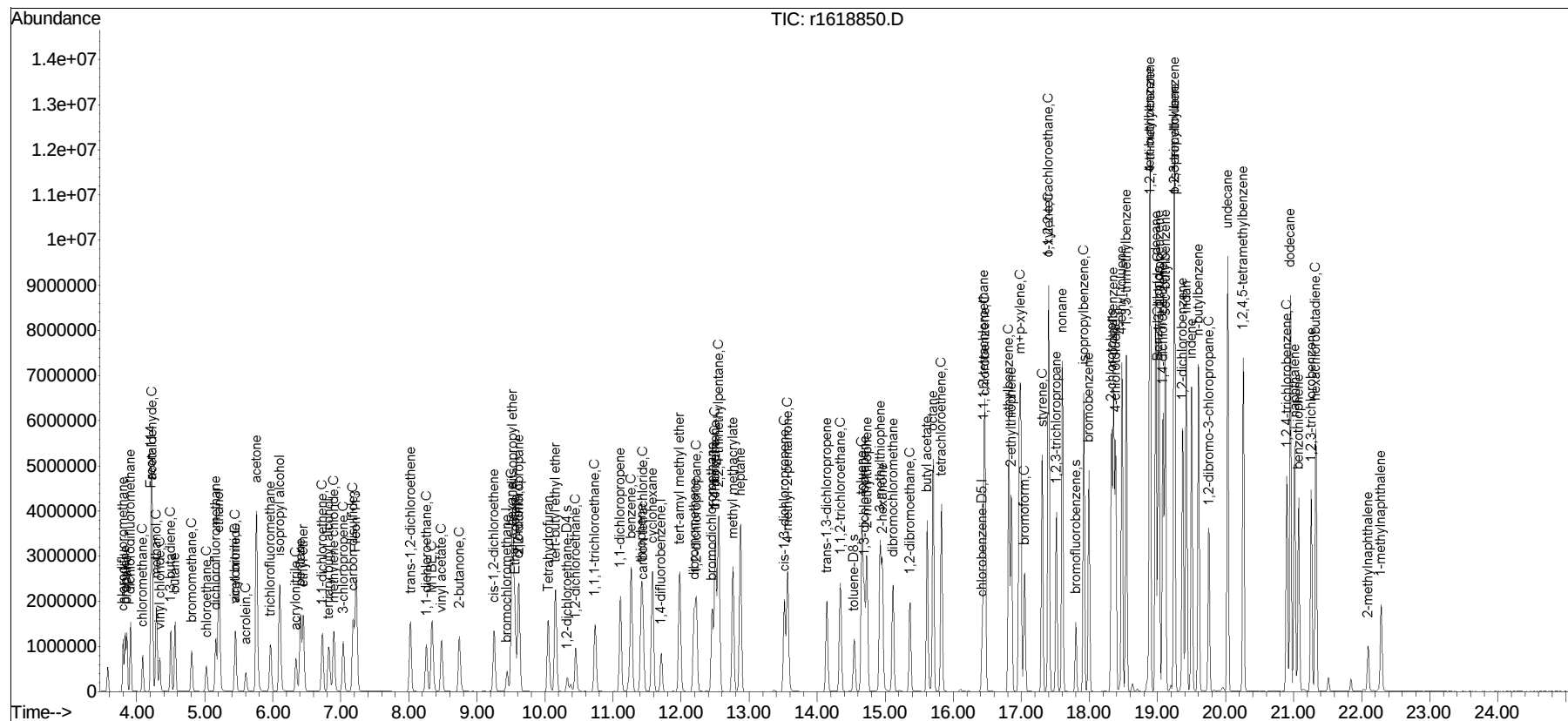
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\AirLab16\2020\09\200902T_I\
 Data File : r1618850.D
 Acq On : 2 Sep 2020 9:24 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD050
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:16:38 2020
 Quant Method : 0:\Forensics\Data\AirLab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

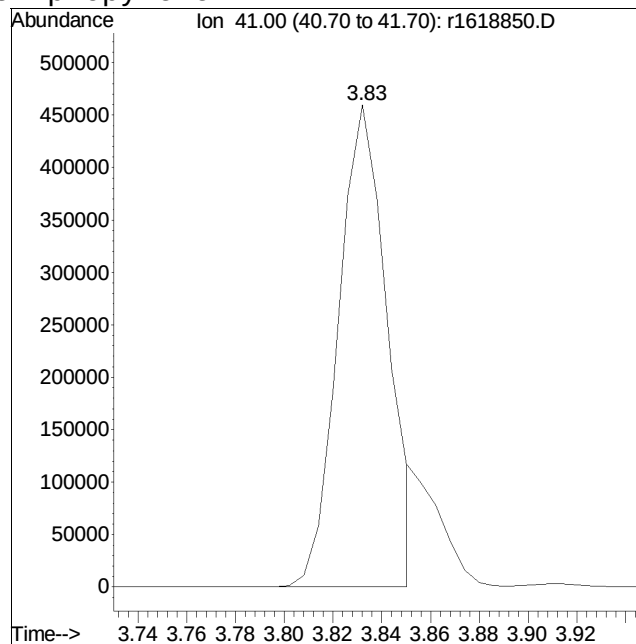
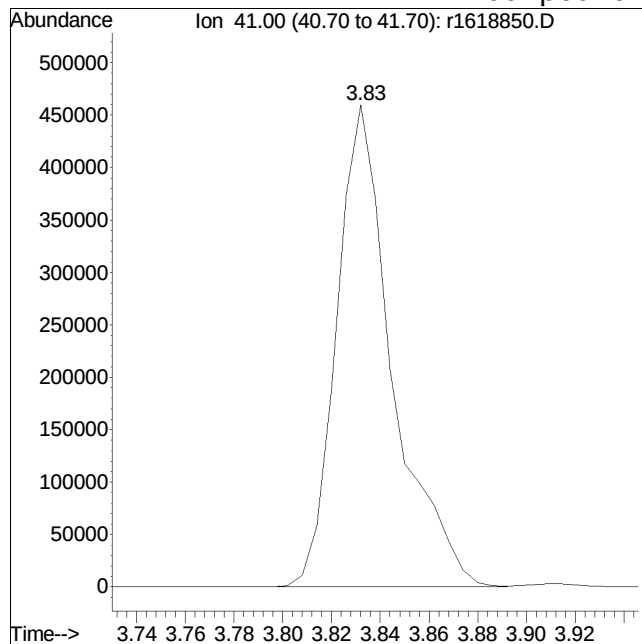
Sub List : Default - All compounds listed 0\09\200902T_I\r1618848.D



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\AirLab16\QMethod : TFS16_200902.M
Data File : r1618850.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:9: 4 Instrument :
Sample : IT015-LLSTD050 Quant Date : 9/3/2020 7:35 am

Compound #3: propylene



Original Peak Response = 731644

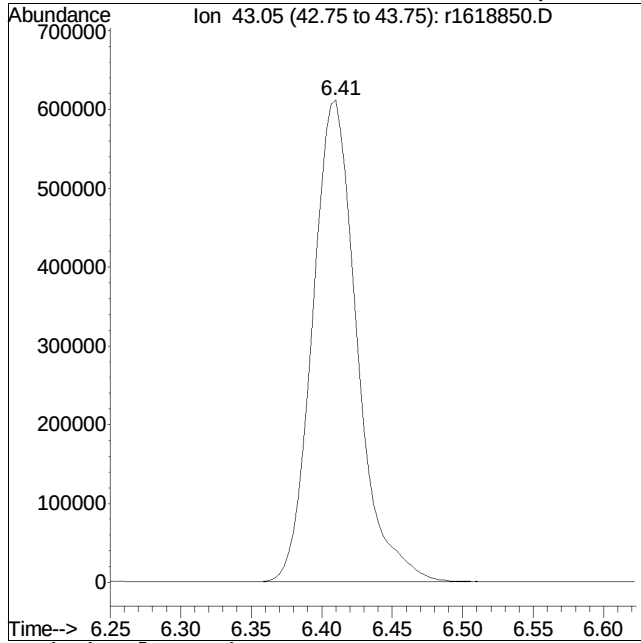
Manual Peak Response = 643631 M4

M4 = Poor automated baseline construction.

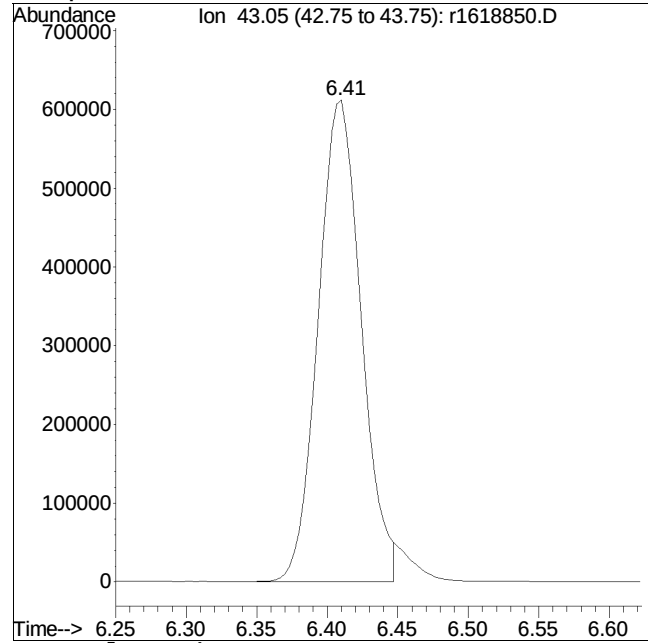
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618850.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:9: 4 Instrument :
Sample : IT015-LLSTD050 Quant Date : 9/3/2020 7:35 am

Compound #24: pentane



Original Peak Response = 1338989



Manual Peak Response = 1297811 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618851.D
 Acq On : 2 Sep 2020 10:06 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD100
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:18:39 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.45	49	287888	10.000	ppbV	0.00
Standard Area = 306140			Recovery =		94.04%	
43) 1,4-difluorobenzene	11.71	114	874116	10.000	ppbV	0.00
Standard Area = 891777			Recovery =		98.02%	
67) chlorobenzene-D5	16.43	54	112393	10.000	ppbV	0.00
Standard Area = 120304			Recovery =		93.42%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.33	65	160888	7.524	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		75.24%	
69) toluene-D8	14.55	98	879017	9.608	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		96.08%	
90) bromofluorobenzene	17.80	95	640980	10.347	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		103.47%	
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.80	51	2109137	91.572	ppbV	97
3) propylene	3.83	41	1213735M4	84.044	ppbV	
4) propane	3.85	29	1496772	94.105	ppbV	94
5) dichlorodifluoromethane	3.90	85	2190336	84.994	ppbV	100
6) chloromethane	4.08	50	1512062	91.902	ppbV	99
7) Freon-114	4.21	85	3024666	79.958	ppbV	98
8) methanol	4.29	31	2785009	450.148	ppbV	96
9) vinyl chloride	4.34	62	1319349	87.942	ppbV	97
10) 1,3-butadiene	4.50	54	1245446	94.368	ppbV	85
11) butane	4.56	43	2163246	78.244	ppbV #	98
12) acetaldehyde	4.22	29	3497858	416.063	ppbV	88
13) bromomethane	4.80	94	1193504	85.639	ppbV	98
14) chloroethane	5.02	64	674230	85.022	ppbV	99
15) ethanol	5.22	31	4117719	387.272	ppbV	88
16) dichlorofluoromethane	5.16	67	2073081	73.374	ppbV	99
17) vinyl bromide	5.45	106	1248130	82.012	ppbV	97
18) acrolein	5.60	56	653752	98.127	ppbV	97
19) acetone	5.76	43	8186189	330.392	ppbV #	79
20) acetonitrile	5.46	41	1120270	79.026	ppbV	99
21) trichlorofluoromethane	5.97	101	1669672	76.541	ppbV	99
22) isopropyl alcohol	6.11	45	5819552	183.135	ppbV #	97
23) acrylonitrile	6.35	53	1245302	95.147	ppbV	98
24) pentane	6.41	43	2271558M4	75.596	ppbV	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618851.D
 Acq On : 2 Sep 2020 10:06 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD100
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:18:39 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.45	31	2747579	96.897	ppbV	93
26) 1,1-dichloroethene	6.73	61	1546617	82.935	ppbV	99
27) tertiary butyl alcohol	6.83	59	2006344	85.926	ppbV	93
28) methylene chloride	6.90	49	1709943	84.804	ppbV	96
29) 3-chloropropene	7.04	41	1734583	77.941	ppbV	96
30) carbon disulfide	7.18	76	4328062	81.542	ppbV	97
31) Freon 113	7.23	101	2362194	78.208	ppbV	97
32) trans-1,2-dichloroethene	8.03	61	1759311	83.119	ppbV	98
33) 1,1-dichloroethane	8.26	63	2114645	80.264	ppbV	100
34) MTBE	8.34	73	3326591	78.863	ppbV	94
35) vinyl acetate	8.48	43	3349961	77.450	ppbV #	94
36) 2-butanone	8.74	43	3066898	76.434	ppbV #	95
37) cis-1,2-dichloroethene	9.26	61	1483700	84.068	ppbV	100
38) Ethyl Acetate	9.57	61	566170	86.519	ppbV	64
39) chloroform	9.62	83	2325365	84.049	ppbV	98
40) Tetrahydrofuran	10.05	42	2310372	81.693	ppbV	92
41) 2,2-dichloropropane	9.63	77	1750334	80.620	ppbV	91
42) 1,2-dichloroethane	10.46	62	1155237	72.218	ppbV #	88
44) hexane	9.52	57	2255967	77.708	ppbV #	72
45) diisopropyl ether	9.53	87	1241101	79.934	ppbV #	59
46) tert-butyl ethyl ether	10.16	59	3933199	76.363	ppbV	93
48) 1,1,1-trichloroethane	10.74	97	1849841	71.605	ppbV #	96
49) 1,1-dichloropropene	11.11	75	2289419	84.103	ppbV	90
50) benzene	11.27	78	5535169	91.110	ppbV	99
51) thiophene	11.42	84	3000714	90.803	ppbV	93
52) carbon tetrachloride	11.44	117	1824058	76.218	ppbV	99
53) cyclohexane	11.58	56	2753676	88.295	ppbV #	89
54) tert-amyl methyl ether	11.98	73	4521316	82.962	ppbV	95
55) dibromomethane	12.19	93	1393967	76.767	ppbV	97
56) 1,2-dichloropropane	12.23	63	1709793	75.997	ppbV	97
57) bromodichloromethane	12.46	83	2646972	83.741	ppbV	98
58) 1,4-dioxane	12.50	88	1195836	84.743	ppbV	95
59) trichloroethene	12.51	130	2193889	80.370	ppbV	95
60) 2,2,4-trimethylpentane	12.55	57	8075050	81.043	ppbV	92
61) methyl methacrylate	12.77	41	2743173	71.969	ppbV	89
62) heptane	12.87	43	3637585	72.328	ppbV #	89
63) cis-1,3-dichloropropene	13.52	75	2826382	90.692	ppbV #	91
64) 4-methyl-2-pentanone	13.57	43	4481271	75.128	ppbV	91
65) trans-1,3-dichloropropene	14.14	75	2522759	88.188	ppbV	93
66) 1,1,2-trichloroethane	14.34	97	1941997	79.097	ppbV #	86

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618851.D
 Acq On : 2 Sep 2020 10:06 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD100
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:18:39 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.66	91	5575939	82.845	ppbV	99
70) 2-methylthiophene	14.73	97	4515371	82.551	ppbV	99
71) 1,3-dichloropropane	14.69	76	2839573	89.992	ppbV #	84
72) 2-hexanone	14.96	43	4099142	81.571	ppbV	89
73) 3-methylthiophene	14.93	97	4552803	80.883	ppbV	99
74) dibromochloromethane	15.12	129	2770341	81.377	ppbV	97
75) 1,2-dibromoethane	15.37	107	2971813	84.603	ppbV	99
76) butyl acetate	15.62	73	815369	94.658	ppbV	73
77) octane	15.71	85	2140641	90.179	ppbV #	73
78) tetrachloroethene	15.82	166	2453287	83.994	ppbV	94
79) 1,1,1,2-tetrachloroethane	16.45	131	1960208	75.546	ppbV	99
80) chlorobenzene	16.47	112	4668735	83.427	ppbV	97
81) ethylbenzene	16.82	91	6970568	79.949	ppbV	94
82) 2-ethylthiophene	16.86	97	4955210	79.799	ppbV	90
83) m+p-xylene	16.99	91	10673904	149.748	ppbV	96
84) bromoform	17.05	173	2517100	85.522	ppbV	95
85) styrene	17.31	104	5348521	88.495	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.40	83	4095582	81.211	ppbV	98
87) o-xylene	17.40	91	5054845	70.088	ppbV	96
88) 1,2,3-trichloropropane	17.52	75	3562459	92.804	ppbV #	95
89) nonane	17.61	43	5006861	70.866	ppbV #	80
91) isopropylbenzene	17.92	105	7668074	78.283	ppbV #	89
92) bromobenzene	18.00	77	4500915	92.834	ppbV	100
93) 2-chlorotoluene	18.32	126	2534018	90.238	ppbV	74
94) n-propylbenzene	18.36	120	2761100	88.539	ppbV	72
95) 4-chlorotoluene	18.39	126	2470236	89.862	ppbV	83
96) 4-ethyl toluene	18.48	105	8486527	76.886	ppbV #	90
97) 1,3,5-trimethylbenzene	18.54	105	6977333	75.679	ppbV	88
98) tert-butylbenzene	18.89	119	6150562	68.172	ppbV	94
99) 1,2,4-trimethylbenzene	18.89	105	5865066	64.430	ppbV	90
100) decane	18.98	57	5306736	80.137	ppbV #	78
101) Benzyl Chloride	19.02	91	5086466	90.424	ppbV	92
102) 1,3-dichlorobenzene	19.02	146	4908286	83.165	ppbV	98
103) 1,4-dichlorobenzene	19.08	146	4905676	85.731	ppbV	98
104) sec-butylbenzene	19.12	105	9427872	73.756	ppbV #	89
105) 1,2,3-trimethylbenzene	19.25	105	5868437	63.670	ppbV	95
106) p-isopropyltoluene	19.25	119	7159963	65.304	ppbV	92
107) 1,2-dichlorobenzene	19.38	146	4935512	87.607	ppbV	97
108) n-butylbenzene	19.61	91	7211044	77.784	ppbV	93
109) indan	19.43	117	7724483	82.412	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618851.D
 Acq On : 2 Sep 2020 10:06 PM
 Operator : AIRLAB16:RY
 Sample : IT015-LLSTD100
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:18:39 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 07:34:25 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110)	indene	19.51	115	6651162	90.573	ppbV	98
111)	1,2-dibromo-3-chloropr...	19.76	75	1796031	91.252	ppbV	90
112)	undecane	20.03	57	5844514	79.061	ppbV #	81
113)	1,2,4,5-tetramethylben...	20.26	119	8294650	83.686	ppbV	97
114)	dodecane	20.95	57	5399474	71.239	ppbV #	75
115)	1,2,4-trichlorobenzene	20.90	180	3247633	106.661	ppbV	97
116)	naphthalene	21.02	128	9480762	94.216	ppbV	100
117)	1,2,3-trichlorobenzene	21.26	180	3082502	95.529	ppbV	99
118)	benzothiophene	21.07	134	7473059	91.106	ppbV	98
119)	hexachlorobutadiene	21.32	225	2309033	71.487	ppbV	97
120)	2-methylnaphthalene	22.09	142	1582637	109.009	ppbV	97
121)	1-methylnaphthalene	22.28	142	2926339	67.403	ppbV	100

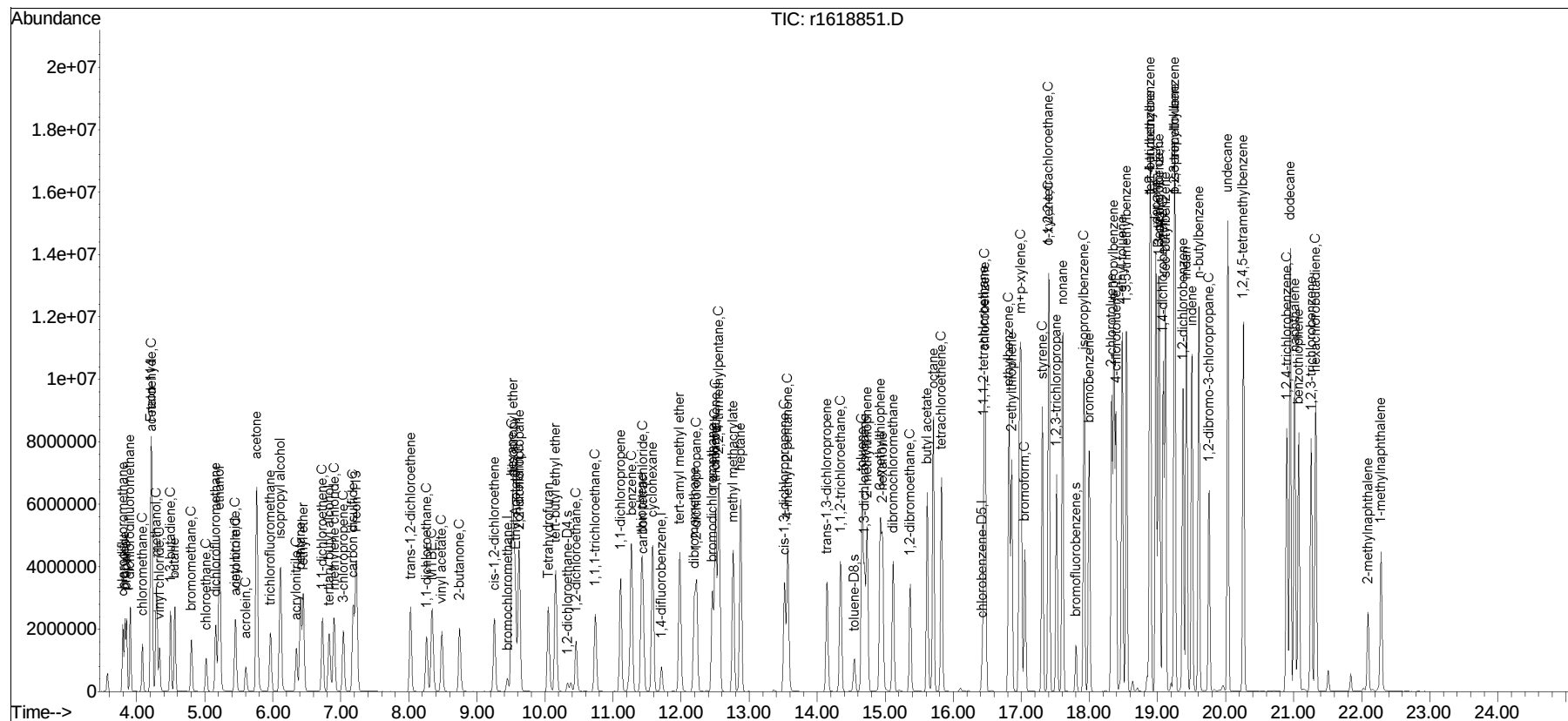
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path   : 0:\Forensics\Data\AirLab16\2020\09\200902T_I\
Data File   : r1618851.D
Acq On      : 2 Sep 2020 10:06 PM
Operator    : AIRLAB16:RY
Sample      : IT015-LLSTD100
Misc        : WG1406250
ALS Vial    : 0    Sample Multiplier: 1
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Quant Time: Sep 03 13:18:39 2020
Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Sep 03 07:34:25 2020
Response via : Initial Calibration

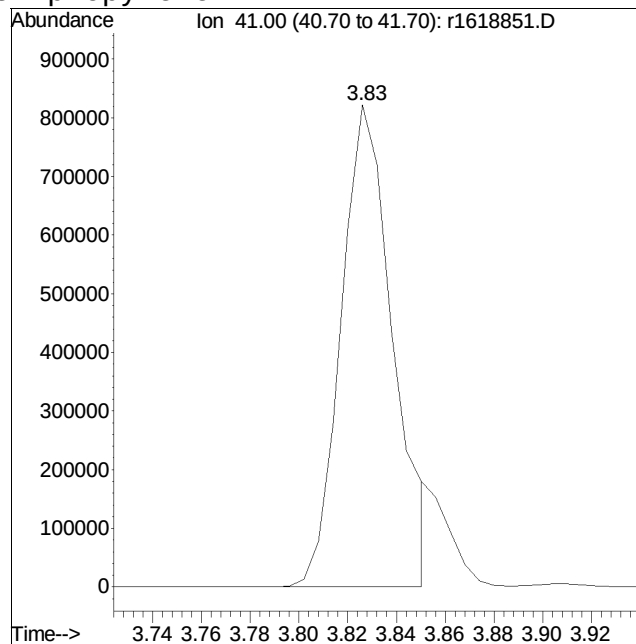
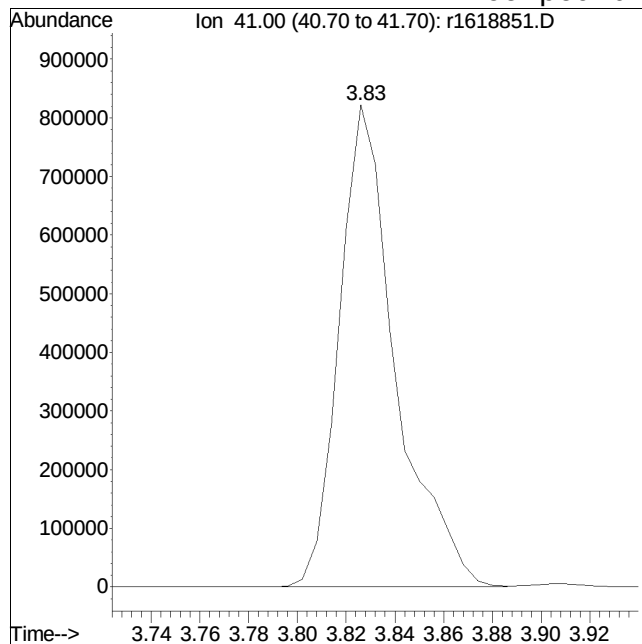
Sub List : Default - All compounds listed0\09\200902T_I\r1618848.D



Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618851.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:0: 6 Instrument :
Sample : IT015-LLSTD100 Quant Date : 9/3/2020 7:35 am

Compound #3: propylene



Original Peak Response = 1322781

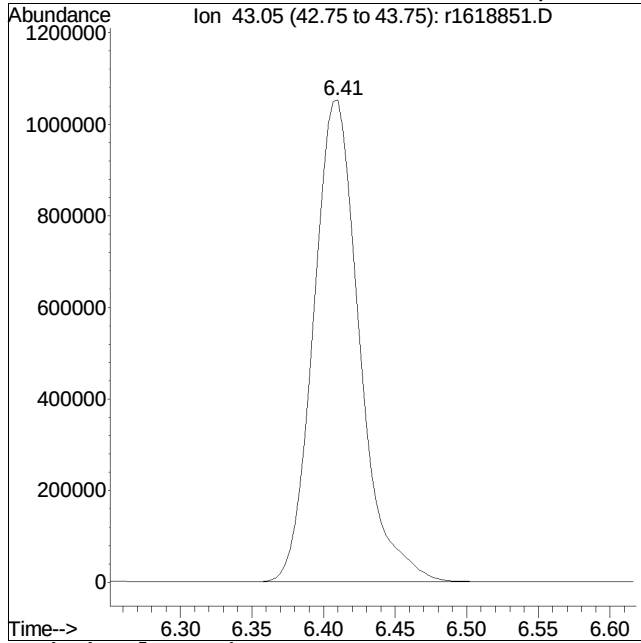
Manual Peak Response = 1213735 M4

M4 = Poor automated baseline construction.

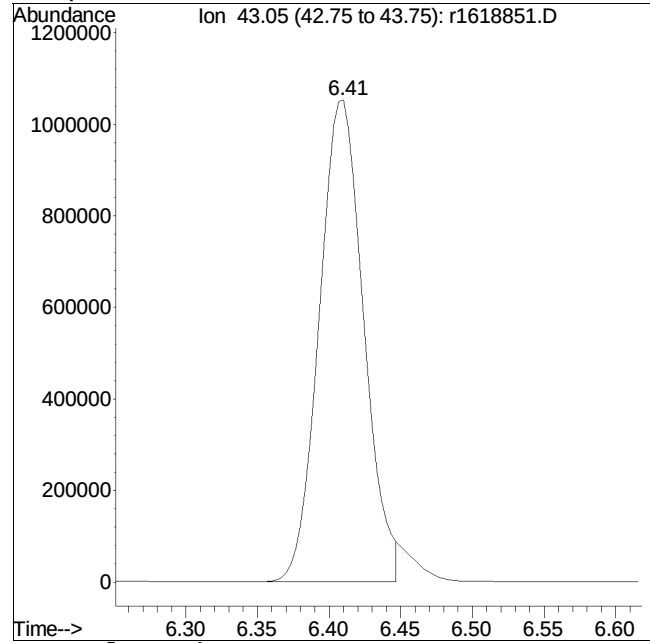
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618851.D Operator : AIRLAB16:RY
Date Inj'd : 9/2/2020 0:0: 6 Instrument :
Sample : IT015-LLSTD100 Quant Date : 9/3/2020 7:35 am

Compound #24: pentane



Original Peak Response = 2343662



Manual Peak Response = 2271558 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618854.D
 Acq On : 3 Sep 2020 7:33 AM
 Operator : AIRLAB16:RY
 Sample : CT015-LLSTD010
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:23:21 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 13:20:01 2020
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	93	0.00
2	chlorodifluoromethane	0.831	0.765	7.9	89	0.00
3	propylene	0.510	0.516	-1.2	95	0.00
4	propane	0.566	0.542	4.2	91	0.00
5	dichlorodifluoromethane	0.948	0.932	1.7	96	0.00
6 C	chloromethane	0.600	0.604	-0.7	98	0.00
7	Freon-114	1.353	1.395	-3.1	98	0.00
8 C	methanol	0.210	0.185	11.9	80	0.00
9 C	vinyl chloride	0.543	0.523	3.7	93	0.00
10 C	1,3-butadiene	0.473	0.514	-8.7	104	0.00
11	butane	1.010	0.854	15.4	82	0.00
13 C	bromomethane	0.495	0.481	2.8	92	0.00
14 C	chloroethane	0.282	0.269	4.6	90	0.00
15	ethanol	0.359	0.367	-2.2	92	0.00
16	dichlorofluoromethane	1.004	0.846	15.7	80	0.00
17 C	vinyl bromide	0.538	0.510	5.2	89	0.00
18 C	acrolein	0.240	0.225	6.2	90	0.00
19	acetone	0.868	0.650	25.1	70	0.00
20 C	acetonitrile	0.514	0.435	15.4	82	0.00
21	trichlorofluoromethane	0.769	0.733	4.7	90	0.00
22	isopropyl alcohol	1.098	0.880	19.9	74	0.00
23 C	acrylonitrile	0.472	0.460	2.5	94	0.00
24	pentane	1.059	0.927	12.5	82	0.00
25	ethyl ether	0.921	0.790	14.2	74	0.00
26 C	1,1-dichloroethene	0.661	0.654	1.1	94	0.00
27	tertiary butyl alcohol	0.799	0.764	4.4	87	0.00
28 C	methylene chloride	0.700	0.739	-5.6	98	0.00
29 C	3-chloropropene	0.791	0.784	0.9	94	0.00
30 C	carbon disulfide	1.830	1.765	3.6	89	0.00
31	Freon 113	1.058	1.058	0.0	93	0.00
32	trans-1,2-dichloroethene	0.752	0.706	6.1	89	0.00
33 C	1,1-dichloroethane	0.927	0.899	3.0	91	0.00
34 C	MTBE	1.476	1.475	0.1	93	0.00
35 C	vinyl acetate	1.425	1.407	1.3	87	0.00
36 C	2-butanone	1.368	1.330	2.8	88	0.00
37	cis-1,2-dichloroethene	0.645	0.629	2.5	95	0.00
38	Ethyl Acetate	0.233	0.197	15.5	80	0.00
39 C	chloroform	0.967	0.892	7.8	86	0.00
40	Tetrahydrofuran	0.968	0.968	0.0	91	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618854.D
 Acq On : 3 Sep 2020 7:33 AM
 Operator : AIRLAB16:RY
 Sample : CT015-LLSTD010
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:23:21 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 13:20:01 2020
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	0.751	0.589	21.6	72	0.00
42 C	1,2-dichloroethane	0.558	0.536	3.9	89	0.00
43 I	1,4-difluorobenzene	1.000	1.000	0.0	99	0.00
44 C	hexane	0.341	0.291	14.7	87	0.00
45	diisopropyl ether	0.196	0.145	26.0	81	0.00
46	tert-butyl ethyl ether	0.598	0.508	15.1	86	0.00
47 s	1,2-dichloroethane-D4	0.235	0.226	3.8	92	0.00
48 C	1,1,1-trichloroethane	0.298	0.278	6.7	93	0.00
49	1,1-dichloropropene	0.318	0.299	6.0	95	0.00
50 C	benzene	0.736	0.719	2.3	103	0.00
52 C	carbon tetrachloride	0.277	0.271	2.2	98	0.00
53	cyclohexane	0.369	0.356	3.5	99	0.00
54	tert-amyl methyl ether	0.638	0.584	8.5	93	0.00
55	dibromomethane	0.212	0.182	14.2	87	0.00
56 C	1,2-dichloropropane	0.261	0.242	7.3	93	0.00
57	bromodichloromethane	0.363	0.358	1.4	98	0.00
58 C	1,4-dioxane	0.166	0.156	6.0	96	0.00
59 C	trichloroethene	0.317	0.304	4.1	97	0.00
60 C	2,2,4-trimethylpentane	1.166	1.114	4.5	97	0.00
61	methyl methacrylate	0.421	0.280	33.5#	64	0.00
62	heptane	0.581	0.554	4.6	96	0.00
63 C	cis-1,3-dichloropropene	0.362	0.385	-6.4	107	0.00
64 C	4-methyl-2-pentanone	0.665	0.665	0.0	97	0.00
65	trans-1,3-dichloropropene	0.324	0.300	7.4	91	0.00
66 C	1,1,2-trichloroethane	0.285	0.274	3.9	97	0.00
67 I	chlorobenzene-D5	1.000	1.000	0.0	101	0.00
68 C	toluene	6.197	5.596	9.7	94	0.00
69 s	toluene-D8	8.111	8.135	-0.3	101	0.00
71	1,3-dichloropropane	2.903	2.596	10.6	93	0.00
72	2-hexanone	4.378	4.217	3.7	95	0.00
74	dibromochloromethane	2.991	2.948	1.4	98	0.00
75 C	1,2-dibromoethane	3.176	3.120	1.8	101	0.00
76	butyl acetate	0.770	0.701	9.0	92	0.00
77	octane	2.184	1.911	12.5	91	0.00
78 C	tetrachloroethene	2.676	2.544	4.9	99	0.00
79	1,1,1,2-tetrachloroethane	2.300	2.033	11.6	89	0.00
80 C	chlorobenzene	5.075	5.035	0.8	102	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618854.D
 Acq On : 3 Sep 2020 7:33 AM
 Operator : AIRLAB16:RY
 Sample : CT015-LLSTD010
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:23:21 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 13:20:01 2020
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81 C	ethylbenzene	7.846	7.430	5.3	97	0.00
83 C	m+p-xylene	6.330	5.974	5.6	95	0.00
84 C	bromoform	2.487	2.498	-0.4	96	0.00
85 C	styrene	5.333	5.375	-0.8	101	0.00
86 C	1,1,2,2-tetrachloroethane	4.518	4.386	2.9	99	0.00
87 C	o-xylene	6.367	6.058	4.9	95	0.00
88	1,2,3-trichloropropane	3.468	3.175	8.4	94	0.00
89	nonane	6.224	5.579	10.4	90	0.00
90 s	bromofluorobenzene	5.379	5.606	-4.2	103	0.00
91 C	isopropylbenzene	8.698	8.232	5.4	95	0.00
92	bromobenzene	4.362	3.985	8.6	93	0.00
93	2-chlorotoluene	2.537	2.215	12.7	90	0.00
94	n-propylbenzene	2.780	2.475	11.0	90	0.00
95	4-chlorotoluene	2.428	2.108	13.2	87	0.00
96	4-ethyl toluene	9.483	9.352	1.4	96	0.00
97	1,3,5-trimethylbenzene	8.057	8.043	0.2	99	0.00
98	tert-butylbenzene	7.873	7.157	9.1	90	0.00
99	1,2,4-trimethylbenzene	7.577	7.937	-4.8	99	0.00
100	decane	5.921	5.114	13.6	88	0.00
101 C	Benzyl Chloride	4.348	4.284	1.5	87	0.00
102	1,3-dichlorobenzene	5.044	5.033	0.2	97	0.00
103 C	1,4-dichlorobenzene	4.812	4.801	0.2	95	0.00
104	sec-butylbenzene	11.138	10.423	6.4	93	0.00
106	p-isopropyltoluene	9.528	7.950	16.6	82	0.00
107	1,2-dichlorobenzene	4.853	4.771	1.7	96	0.00
108	n-butylbenzene	8.030	7.379	8.1	90	0.00
111 C	1,2-dibromo-3-chloropropane	1.661	1.480	10.9	85	0.00
112	undecane	6.371	5.759	9.6	89	0.00
114	dodecane	5.730	5.514	3.8	83	0.00
115 C	1,2,4-trichlorobenzene	2.357	2.217	5.9	83	0.00
116	naphthalene	7.713	6.024	21.9	68	0.00
117	1,2,3-trichlorobenzene	2.483	2.118	14.7	75	0.02
119 C	hexachlorobutadiene	2.522	2.618	-3.8	92	0.02

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618854.D
 Acq On : 3 Sep 2020 7:33 AM
 Operator : AIRLAB16:RY
 Sample : CT015-LLSTD010
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:23:21 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 13:20:01 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.44	49	283459	10.000	ppbV	0.00
Standard Area = 306140			Recovery =	92.59%		
43) 1,4-difluorobenzene	11.71	114	885540	10.000	ppbV	0.00
Standard Area = 891777			Recovery =	99.30%		
67) chlorobenzene-D5	16.43	54	121613	10.000	ppbV	0.00
Standard Area = 120304			Recovery =	101.09%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.32	65	199865	9.591	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.91%		
69) toluene-D8	14.54	98	989342	10.030	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.30%		
90) bromofluorobenzene	17.81	95	681792	10.422	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	104.22%		
Target Compounds						
					Qvalue	
2) chlorodifluoromethane	3.80	51	216873	9.204	ppbV	97
3) propylene	3.83	41	146403M4	10.130	ppbV	
4) propane	3.86	29	153638	9.571	ppbV	95
5) dichlorodifluoromethane	3.91	85	264185	9.831	ppbV	99
6) chloromethane	4.09	50	171192	10.059	ppbV	98
7) Freon-114	4.22	85	395431	10.308	ppbV	96
8) methanol	4.29	31	262613	44.207	ppbV	96
9) vinyl chloride	4.34	62	148337	9.637	ppbV	97
10) 1,3-butadiene	4.50	54	145687	10.869	ppbV	88
11) butane	4.56	43	241985	8.448	ppbV	99
13) bromomethane	4.81	94	136249	9.713	ppbV	99
14) chloroethane	5.03	64	76271	9.526	ppbV	98
15) ethanol	5.20	31	520017	51.153	ppbV	93
16) dichlorofluoromethane	5.16	67	239823	8.428	ppbV	99
17) vinyl bromide	5.45	106	144439	9.470	ppbV	100
18) acrolein	5.61	56	63870	9.378	ppbV	98
19) acetone	5.77	43	921312	37.462	ppbV	93
20) acetonitrile	5.45	41	123267	8.462	ppbV	98
21) trichlorofluoromethane	5.97	101	207857	9.537	ppbV	98
22) isopropyl alcohol	6.10	45	623267	20.028	ppbV	99
23) acrylonitrile	6.34	53	130477	9.755	ppbV	97
24) pentane	6.41	43	262758M4	8.755	ppbV	
25) ethyl ether	6.46	31	223985	8.582	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618854.D
 Acq On : 3 Sep 2020 7:33 AM
 Operator : AIRLAB16:RY
 Sample : CT015-LLSTD010
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:23:21 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 13:20:01 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) 1,1-dichloroethene	6.73	61	185513	9.898	ppbV	100
27) tertiary butyl alcohol	6.84	59	216593	9.564	ppbV	97
28) methylene chloride	6.90	49	209373	10.546	ppbV	99
29) 3-chloropropene	7.04	41	222173	9.907	ppbV	98
30) carbon disulfide	7.18	76	500446	9.649	ppbV	99
31) Freon 113	7.23	101	299780	9.996	ppbV	97
32) trans-1,2-dichloroethene	8.03	61	200159	9.387	ppbV	98
33) 1,1-dichloroethane	8.26	63	254861	9.698	ppbV	99
34) MTBE	8.35	73	418211	9.996	ppbV	98
35) vinyl acetate	8.48	43	398768	9.870	ppbV	98
36) 2-butanone	8.75	43	377017	9.725	ppbV	97
37) cis-1,2-dichloroethene	9.25	61	178396	9.761	ppbV	98
38) Ethyl Acetate	9.56	61	55895	8.476	ppbV	69
39) chloroform	9.61	83	252843	9.225	ppbV	97
40) Tetrahydrofuran	10.06	42	274430	9.999	ppbV	97
41) 2,2-dichloropropane	9.62	77	166915	7.844	ppbV	91
42) 1,2-dichloroethane	10.45	62	151874	9.609	ppbV	96
44) hexane	9.52	57	257351	8.531	ppbV #	78
45) diisopropyl ether	9.53	87	128685	7.415	ppbV	75
46) tert-butyl ethyl ether	10.16	59	449965	8.501	ppbV	98
48) 1,1,1-trichloroethane	10.73	97	245791	9.326	ppbV	98
49) 1,1-dichloropropene	11.11	75	264877	9.406	ppbV	94
50) benzene	11.27	78	636598	9.761	ppbV	100
52) carbon tetrachloride	11.44	117	239986	9.767	ppbV	97
53) cyclohexane	11.58	56	314980	9.649	ppbV	95
54) tert-amyl methyl ether	11.99	73	517543	9.157	ppbV	97
55) dibromomethane	12.19	93	161252	8.592	ppbV	99
56) 1,2-dichloropropane	12.23	63	214070	9.246	ppbV	99
57) bromodichloromethane	12.45	83	316764	9.856	ppbV	98
58) 1,4-dioxane	12.51	88	138538	9.429	ppbV	96
59) trichloroethene	12.50	130	268860	9.570	ppbV	99
60) 2,2,4-trimethylpentane	12.55	57	986886	9.557	ppbV	98
61) methyl methacrylate	12.77	41	247614	6.647	ppbV	96
62) heptane	12.87	43	490223	9.532	ppbV	99
63) cis-1,3-dichloropropene	13.52	75	341206	10.654	ppbV	95
64) 4-methyl-2-pentanone	13.57	43	588939	9.997	ppbV	99
65) trans-1,3-dichloropropene	14.14	75	265702	9.268	ppbV	95
66) 1,1,2-trichloroethane	14.34	97	242843	9.611	ppbV	94
68) toluene	14.66	91	680555	9.031	ppbV	98
71) 1,3-dichloropropane	14.69	76	315704	8.943	ppbV	92

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618854.D
 Acq On : 3 Sep 2020 7:33 AM
 Operator : AIRLAB16:RY
 Sample : CT015-LLSTD010
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:23:21 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 13:20:01 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 2-hexanone	14.96	43	512802	9.632	ppbV	99
74) dibromochloromethane	15.12	129	358462	9.854	ppbV	100
75) 1,2-dibromoethane	15.37	107	379434	9.823	ppbV	99
76) butyl acetate	15.63	73	85237	9.101	ppbV	94
77) octane	15.71	85	232419	8.749	ppbV	99
78) tetrachloroethene	15.82	166	309400	9.506	ppbV	97
79) 1,1,1,2-tetrachloroethane	16.46	131	247279	8.841	ppbV	99
80) chlorobenzene	16.47	112	612368	9.922	ppbV	98
81) ethylbenzene	16.82	91	903577	9.470	ppbV	97
83) m+p-xylene	16.98	91	1453144	18.877	ppbV	95
84) bromoform	17.05	173	303831	10.044	ppbV	97
85) styrene	17.31	104	653622	10.077	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.41	83	533397	9.708	ppbV	98
87) o-xylene	17.40	91	736778	9.516	ppbV	96
88) 1,2,3-trichloropropane	17.52	75	386076	9.154	ppbV	98
89) nonane	17.61	43	678444	8.963	ppbV	98
91) isopropylbenzene	17.93	105	1001141	9.465	ppbV	99
92) bromobenzene	18.00	77	484599	9.135	ppbV	97
93) 2-chlorotoluene	18.32	126	269372	8.732	ppbV	89
94) n-propylbenzene	18.36	120	300985	8.903	ppbV	94
95) 4-chlorotoluene	18.39	126	256401	8.682	ppbV	97
96) 4-ethyl toluene	18.48	105	1137327	9.862	ppbV	99
97) 1,3,5-trimethylbenzene	18.55	105	978108	9.982	ppbV	100
98) tert-butylbenzene	18.89	119	870372	9.090	ppbV	99
99) 1,2,4-trimethylbenzene	18.89	105	965266	10.475	ppbV	98
100) decane	18.98	57	621944	8.638	ppbV	97
101) Benzyl Chloride	19.02	91	520961	9.852	ppbV	99
102) 1,3-dichlorobenzene	19.02	146	612066	9.978	ppbV	98
103) 1,4-dichlorobenzene	19.08	146	583878	9.977	ppbV	98
104) sec-butylbenzene	19.12	105	1267530	9.358	ppbV	100
106) p-isopropyltoluene	19.25	119	966835	8.344	ppbV	95
107) 1,2-dichlorobenzene	19.38	146	580165	9.831	ppbV	99
108) n-butylbenzene	19.61	91	897340	9.188	ppbV	100
111) 1,2-dibromo-3-chloropr...	19.76	75	179930	8.906	ppbV	96
112) undecane	20.03	57	700315	9.039	ppbV	98
114) dodecane	20.96	57	670614	9.623	ppbV	100
115) 1,2,4-trichlorobenzene	20.90	180	269644	9.406	ppbV	99
116) naphthalene	21.02	128	732611	7.810	ppbV	99
117) 1,2,3-trichlorobenzene	21.27	180	257548	8.531	ppbV	97
119) hexachlorobutadiene	21.33	225	318405	10.381	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\
 Data File : r1618854.D
 Acq On : 3 Sep 2020 7:33 AM
 Operator : AIRLAB16:RY
 Sample : CT015-LLSTD010
 Misc : WG1406250
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 03 13:23:21 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
 Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 13:20:01 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\r1618848.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----

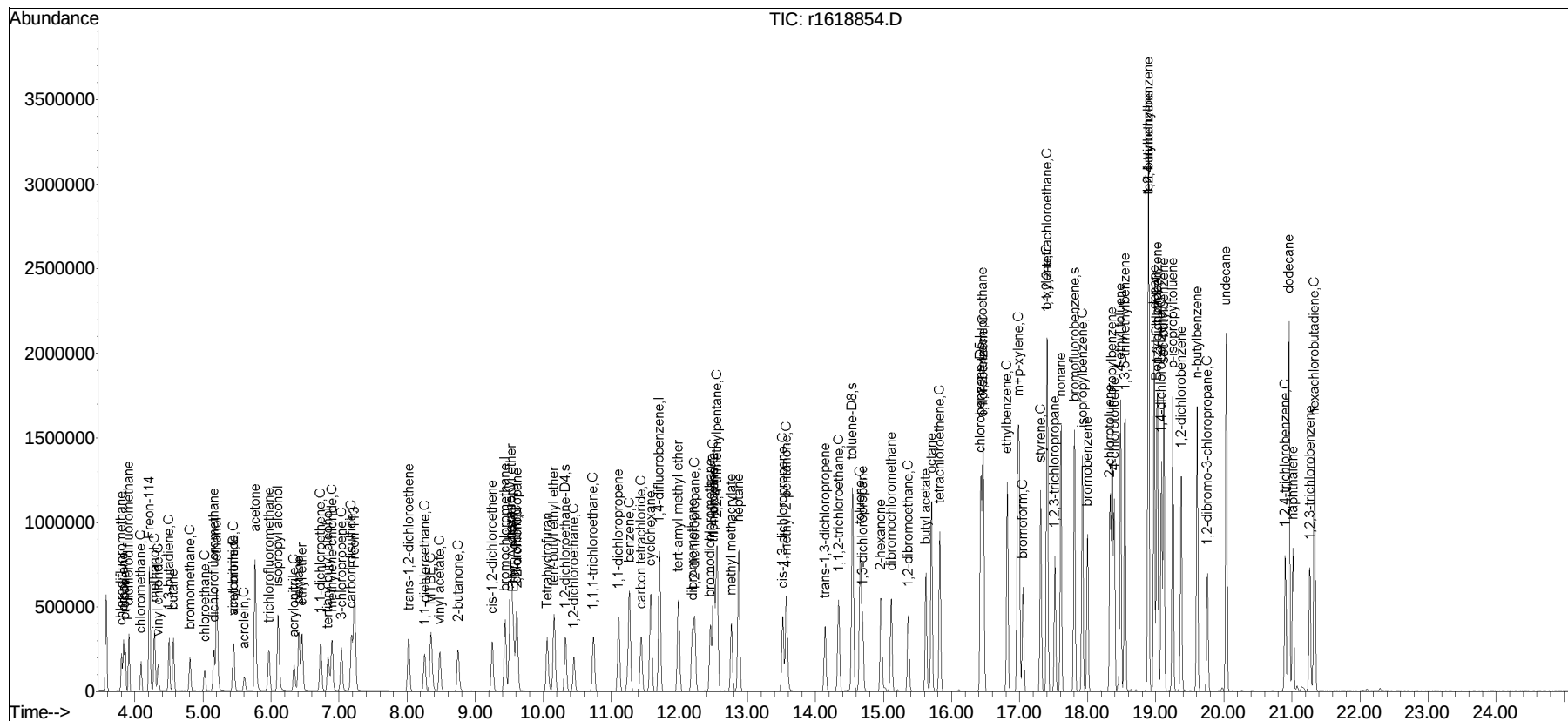
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

```
Data Path   : O:\Forensics\Data\AirLab16\2020\09\200902T_I\
Data File   : r1618854.D
Acq On      : 3 Sep 2020 7:33 AM
Operator    : AIRLAB16:RY
Sample      : CT015-LLSTD010
Misc        : WG1406250
ALS Vial    : 0 Sample Multiplier: 1
```

Quant Time: Sep 03 13:23:21 2020
Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200902T_I\TFS16_200902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Thu Sep 03 13:20:01 2020
Response via : Initial Calibration

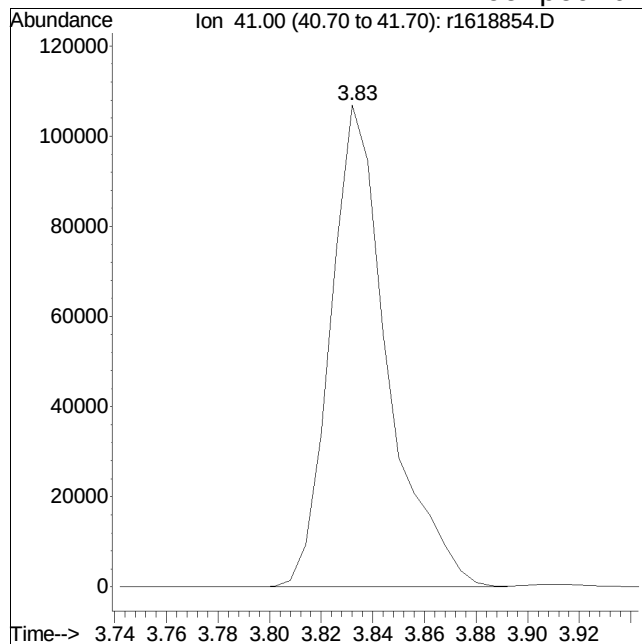
Sub List : Default-ICV-AP2 - All compounds listed902T_I\r1618848.D



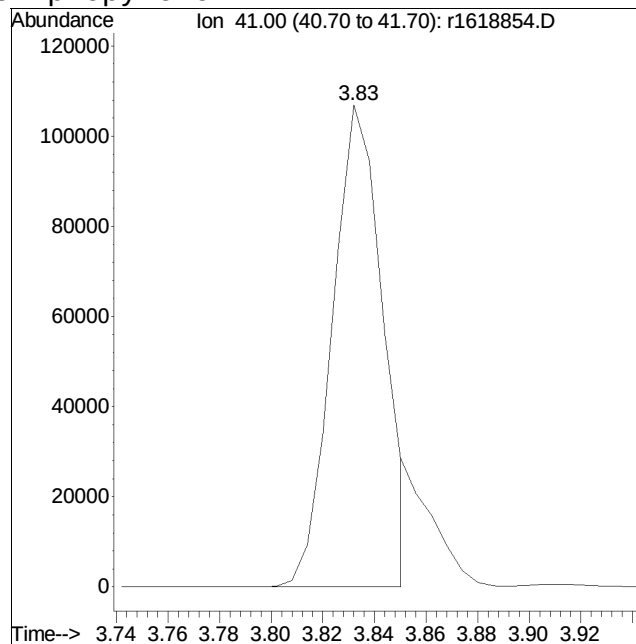
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618854.D Operator : AIRLAB16:RY
Date Inj'd : 9/3/2020 0:7: 3 Instrument :
Sample : CT015-LLSTD010 Quant Date : 9/3/2020 1:22 pm

Compound #3: propylene



Original Peak Response = 164806



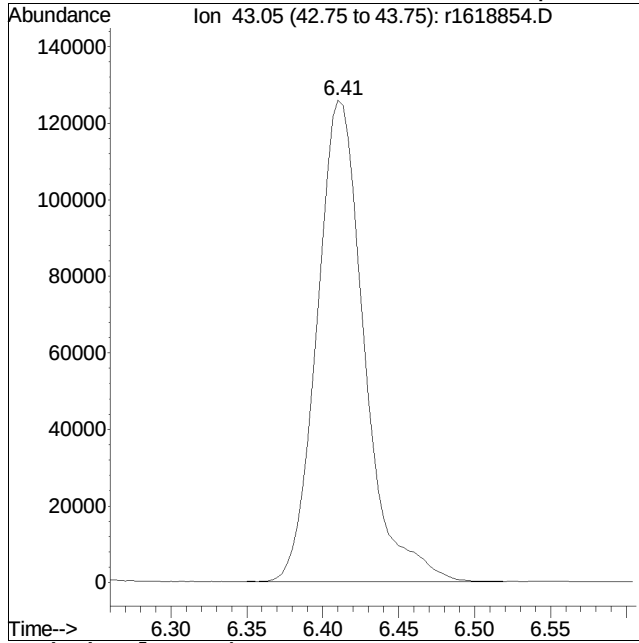
Manual Peak Response = 146403 M4

M4 = Poor automated baseline construction.

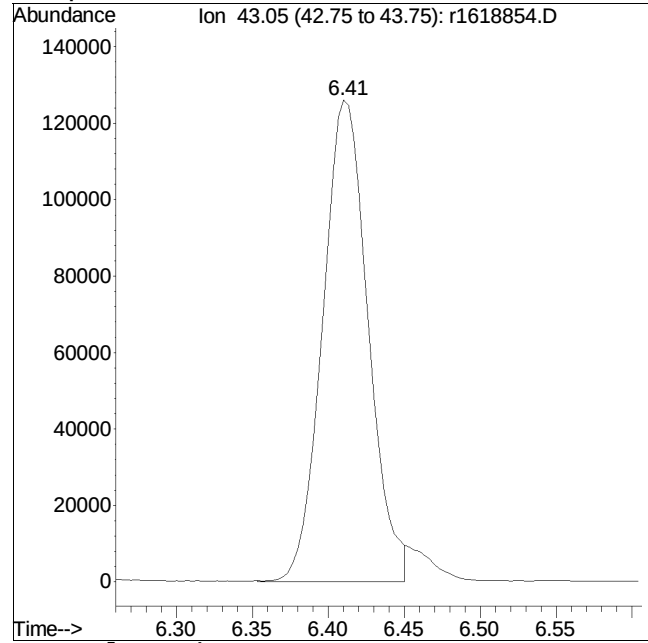
Manual Integration/Negative Proof Report

Data Path : 0:\Forensics\Data\Airlab16\QMethod : TFS16_200902.M
Data File : r1618854.D Operator : AIRLAB16:RY
Date Inj'd : 9/3/2020 0:7: 3 Instrument :
Sample : CT015-LLSTD010 Quant Date : 9/3/2020 1:22 pm

Compound #24: pentane



Original Peak Response = 272438



Manual Peak Response = 262758 M4

M4 = Poor automated baseline construction.

Continuing Calibration

Calibration Verification Summary

Form 7

Air Volatiles

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Instrument ID : AIRLAB16
 Lab File ID : R1619115
 Sample No : WG1410723-2
 Channel :

Lab Number : L2037647
 Project Number : 100433203
 Calibration Date : 09/16/20 11:38
 Init. Calib. Date(s) : 09/02/20 09/02/20
 Init. Calib. Times : 17:22 22:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	94	0
chlorodifluoromethane	0.831	0.855	-	-2.9	30	101	0
propylene	0.51	0.59	-	-15.7	30	111	0
propane	0.566	0.562	-	0.7	30	96	0
dichlorodifluoromethane	0.948	1.06	-	-11.8	30	112	0
chloromethane	0.6	0.606	-	-1	30	100	0
Freon-114	1.353	1.465	-	-8.3	30	105	0
methanol	0.21	0.21	-	0	30	92	0
vinyl chloride	0.543	0.591	-	-8.8	30	107	0
1,3-butadiene	0.473	0.47	-	0.6	30	97	0
butane	1.01	1.063	-	-5.2	30	105	0
bromomethane	0.495	0.548	-	-10.7	30	107	0
chloroethane	0.282	0.309	-	-9.6	30	106	0
ethanol	0.359	0.408	-	-13.6	30	104	0
dichlorofluoromethane	1.004	1.112	-	-10.8	30	107	0
vinyl bromide	0.538	0.564	-	-4.8	30	101	0
acrolein	0.24	0.229	-	4.6	30	94	0
acetone	0.868	0.965	-	-11.2	30	106	0
acetonitrile	0.514	0.544	-	-5.8	30	104	0
trichlorofluoromethane	0.769	0.852	-	-10.8	30	106	0
isopropyl alcohol	1.098	1.129	-	-2.8	30	97	0
acrylonitrile	0.472	0.447	-	5.3	30	93	0
pentane	1.059	1.162	-	-9.7	30	105	0
ethyl ether	0.921	0.775	-	15.9	30	74	0
1,1-dichloroethene	0.661	0.709	-	-7.3	30	103	0
tertiary butyl alcohol	0.799	0.782	-	2.1	30	91	0
methylene chloride	0.7	0.716	-	-2.3	30	97	0
3-chloropropene	0.791	0.812	-	-2.7	30	99	0
carbon disulfide	1.83	1.801	-	1.6	30	92	0
Freon 113	1.058	1.129	-	-6.7	30	102	0
trans-1,2-dichloroethene	0.752	0.788	-	-4.8	30	101	0
1,1-dichloroethane	0.927	0.974	-	-5.1	30	100	0
MTBE	1.476	1.386	-	6.1	30	89	0
vinyl acetate	1.425	1.48	-	-3.9	30	93	0
2-butanone	1.368	1.406	-	-2.8	30	95	0
cis-1,2-dichloroethene	0.645	0.673	-	-4.3	30	104	0
Ethyl Acetate	0.233	0.253	-	-8.6	30	105	0
chloroform	0.967	1.05	-	-8.6	30	103	0
Tetrahydrofuran	0.968	1.013	-	-4.6	30	97	0
2,2-dichloropropane	0.751	0.764	-	-1.7	30	96	0
1,2-dichloroethane	0.558	0.631	-	-13.1	30	107	0
1,4-difluorobenzene	1	1	-	0	30	97	0
hexane	0.341	0.352	-	-3.2	30	102	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Langan Engineering & Environmental
 Project Name : 160 EAST 125TH STREET
 Instrument ID : AIRLAB16
 Lab File ID : R1619115
 Sample No : WG1410723-2
 Channel :

Lab Number : L2037647
 Project Number : 100433203
 Calibration Date : 09/16/20 11:38
 Init. Calib. Date(s) : 09/02/20 09/02/20
 Init. Calib. Times : 17:22 22:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.196	0.18	-	8.2	30	98	0
tert-butyl ethyl ether	0.598	0.581	-	2.8	30	95	0
1,1,1-trichloroethane	0.298	0.307	-	-3	30	100	0
1,1-dichloropropene	0.318	0.309	-	2.8	30	96	0
benzene	0.736	0.715	-	2.9	30	99	0
carbon tetrachloride	0.277	0.287	-	-3.6	30	102	0
cyclohexane	0.369	0.367	-	0.5	30	100	0
tert-amyl methyl ether	0.638	0.589	-	7.7	30	91	0
dibromomethane	0.212	0.224	-	-5.7	30	104	0
1,2-dichloropropane	0.261	0.273	-	-4.6	30	103	0
bromodichloromethane	0.363	0.379	-	-4.4	30	102	0
1,4-dioxane	0.166	0.169	-	-1.8	30	101	0
trichloroethene	0.317	0.33	-	-4.1	30	102	0
2,2,4-trimethylpentane	1.166	1.202	-	-3.1	30	102	0
methyl methacrylate	0.421	0.453	-	-7.6	30	101	0
heptane	0.581	0.592	-	-1.9	30	100	0
cis-1,3-dichloropropene	0.362	0.35	-	3.3	30	95	0
4-methyl-2-pentanone	0.665	0.707	-	-6.3	30	100	0
trans-1,3-dichloropropene	0.324	0.322	-	0.6	30	95	0
1,1,2-trichloroethane	0.285	0.299	-	-4.9	30	103	0
chlorobenzene-D5	1	1	-	0	30	102	0
toluene	6.197	6.069	-	2.1	30	103	0
1,3-dichloropropane	2.903	2.757	-	5	30	100	0
2-hexanone	4.378	4.339	-	0.9	30	99	0
dibromochloromethane	2.991	3.038	-	-1.6	30	102	0
1,2-dibromoethane	3.176	3.139	-	1.2	30	102	0
butyl acetate	0.77	0.718	-	6.8	30	95	0
octane	2.184	2.138	-	2.1	30	103	0
tetrachloroethene	2.676	2.67	-	0.2	30	104	0
1,1,1,2-tetrachloroethane	2.3	2.309	-	-0.4	30	102	0
chlorobenzene	5.075	5.099	-	-0.5	30	104	0
ethylbenzene	7.846	7.88	-	-0.4	30	103	0
m+p-xylene	6.33	6.43	-	-1.6	30	103	0
bromoform	2.487	2.575	-	-3.5	30	100	0
styrene	5.333	5.332	-	0	30	101	0
1,1,2,2-tetrachloroethane	4.518	4.71	-	-4.2	30	107	0
o-xylene	6.367	6.514	-	-2.3	30	103	0
1,2,3-trichloropropane	3.468	3.499	-	-0.9	30	104	0
nonane	6.224	6.226	-	-0	30	101	0
isopropylbenzene	8.698	8.794	-	-1.1	30	103	0
bromobenzene	4.362	4.351	-	0.3	30	103	0
2-chlorotoluene	2.537	2.549	-	-0.5	30	104	0
n-propylbenzene	2.78	2.876	-	-3.5	30	105	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Langan Engineering & Environmental Project Name : 160 EAST 125TH STREET Instrument ID : AIRLAB16 Lab File ID : R1619115 Sample No : WG1410723-2 Channel :	Lab Number : L2037647 Project Number : 100433203 Calibration Date : 09/16/20 11:38 Init. Calib. Date(s) : 09/02/20 09/02/20 Init. Calib. Times : 17:22 22:06

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	2.428	2.48	-	-2.1	30	103	0
4-ethyl toluene	9.483	9.96	-	-5	30	103	0
1,3,5-trimethylbenzene	8.057	8.349	-	-3.6	30	104	0
tert-butylbenzene	7.873	8.216	-	-4.4	30	104	0
1,2,4-trimethylbenzene	7.577	8.14	-	-7.4	30	102	0
decane	5.921	6.036	-	-1.9	30	104	0
Benzyl Chloride	4.348	4.642	-	-6.8	30	94	0
1,3-dichlorobenzene	5.044	5.644	-	-11.9	30	109	0
1,4-dichlorobenzene	4.812	5.219	-	-8.5	30	104	0
sec-butylbenzene	11.138	11.596	-	-4.1	30	104	0
p-isopropyltoluene	9.528	9.921	-	-4.1	30	103	0
1,2-dichlorobenzene	4.853	5.317	-	-9.6	30	108	0
n-butylbenzene	8.03	8.442	-	-5.1	30	104	0
1,2-dibromo-3-chloropropan	1.661	1.671	-	-0.6	30	97	0
undecane	6.371	6.748	-	-5.9	30	104	0
dodecane	5.73	6.118	-	-6.8	30	92	0
1,2,4-trichlorobenzene	2.357	2.519	-	-6.9	30	95	0
naphthalene	7.713	7.825	-	-1.5	30	89	0
1,2,3-trichlorobenzene	2.483	2.596	-	-4.6	30	92	0
hexachlorobutadiene	2.522	2.827	-	-12.1	30	100	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619115.D
 Acq On : 16 Sep 2020 11:38 AM
 Operator : AIRLAB16:TS
 Sample : WG1410723-2,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 16 13:17:39 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 13:20:01 2020
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	94	0.00
2	chlorodifluoromethane	0.831	0.855	-2.9	101	0.00
3	propylene	0.510	0.590	-15.7	111	0.00
4	propane	0.566	0.562	0.7	96	0.00
5	dichlorodifluoromethane	0.948	1.060	-11.8	112	0.00
6 C	chloromethane	0.600	0.606	-1.0	100	0.00
7	Freon-114	1.353	1.465	-8.3	105	0.00
8 C	methanol	0.210	0.210	0.0	92	0.00
9 C	vinyl chloride	0.543	0.591	-8.8	107	0.00
10 C	1,3-butadiene	0.473	0.470	0.6	97	0.00
11	butane	1.010	1.063	-5.2	105	0.00
13 C	bromomethane	0.495	0.548	-10.7	107	0.00
14 C	chloroethane	0.282	0.309	-9.6	106	0.00
15	ethanol	0.359	0.408	-13.6	104	0.00
16	dichlorofluoromethane	1.004	1.112	-10.8	107	0.00
17 C	vinyl bromide	0.538	0.564	-4.8	101	0.00
18 C	acrolein	0.240	0.229	4.6	94	0.00
19	acetone	0.868	0.965	-11.2	106	0.00
20 C	acetonitrile	0.514	0.544	-5.8	104	0.00
21	trichlorofluoromethane	0.769	0.852	-10.8	106	0.00
22	isopropyl alcohol	1.098	1.129	-2.8	97	0.00
23 C	acrylonitrile	0.472	0.447	5.3	93	0.00
24	pentane	1.059	1.162	-9.7	105	0.00
25	ethyl ether	0.921	0.775	15.9	74	0.00
26 C	1,1-dichloroethene	0.661	0.709	-7.3	103	0.00
27	tertiary butyl alcohol	0.799	0.782	2.1	91	0.00
28 C	methylene chloride	0.700	0.716	-2.3	97	0.00
29 C	3-chloropropene	0.791	0.812	-2.7	99	0.00
30 C	carbon disulfide	1.830	1.801	1.6	92	0.00
31	Freon 113	1.058	1.129	-6.7	102	0.00
32	trans-1,2-dichloroethene	0.752	0.788	-4.8	101	0.00
33 C	1,1-dichloroethane	0.927	0.974	-5.1	100	0.00
34 C	MTBE	1.476	1.386	6.1	89	0.00
35 C	vinyl acetate	1.425	1.480	-3.9	93	0.00
36 C	2-butanone	1.368	1.406	-2.8	95	0.00
37	cis-1,2-dichloroethene	0.645	0.673	-4.3	104	0.00
38	Ethyl Acetate	0.233	0.253	-8.6	105	0.00
39 C	chloroform	0.967	1.050	-8.6	103	0.00
40	Tetrahydrofuran	0.968	1.013	-4.6	97	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619115.D
 Acq On : 16 Sep 2020 11:38 AM
 Operator : AIRLAB16:TS
 Sample : WG1410723-2,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 16 13:17:39 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 13:20:01 2020
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	0.751	0.764	-1.7	96	0.00
42 C	1,2-dichloroethane	0.558	0.631	-13.1	107	0.00
43 I	1,4-difluorobenzene	1.000	1.000	0.0	97	0.00
44 C	hexane	0.341	0.352	-3.2	102	0.00
45	diisopropyl ether	0.196	0.180	8.2	98	0.00
46	tert-butyl ethyl ether	0.598	0.581	2.8	95	0.00
48 C	1,1,1-trichloroethane	0.298	0.307	-3.0	100	0.00
49	1,1-dichloropropene	0.318	0.309	2.8	96	0.00
50 C	benzene	0.736	0.715	2.9	99	0.00
52 C	carbon tetrachloride	0.277	0.287	-3.6	102	0.00
53	cyclohexane	0.369	0.367	0.5	100	0.00
54	tert-amyl methyl ether	0.638	0.589	7.7	91	0.00
55	dibromomethane	0.212	0.224	-5.7	104	0.00
56 C	1,2-dichloropropane	0.261	0.273	-4.6	103	0.00
57	bromodichloromethane	0.363	0.379	-4.4	102	0.00
58 C	1,4-dioxane	0.166	0.169	-1.8	101	0.00
59 C	trichloroethene	0.317	0.330	-4.1	102	0.00
60 C	2,2,4-trimethylpentane	1.166	1.202	-3.1	102	0.00
61	methyl methacrylate	0.421	0.453	-7.6	101	0.00
62	heptane	0.581	0.592	-1.9	100	0.00
63 C	cis-1,3-dichloropropene	0.362	0.350	3.3	95	0.00
64 C	4-methyl-2-pentanone	0.665	0.707	-6.3	100	0.00
65	trans-1,3-dichloropropene	0.324	0.322	0.6	95	0.00
66 C	1,1,2-trichloroethane	0.285	0.299	-4.9	103	0.00
67 I	chlorobenzene-D5	1.000	1.000	0.0	102	0.00
68 C	toluene	6.197	6.069	2.1	103	0.00
71	1,3-dichloropropane	2.903	2.757	5.0	100	0.00
72	2-hexanone	4.378	4.339	0.9	99	0.00
74	dibromochloromethane	2.991	3.038	-1.6	102	0.00
75 C	1,2-dibromoethane	3.176	3.139	1.2	102	0.00
76	butyl acetate	0.770	0.718	6.8	95	0.00
77	octane	2.184	2.138	2.1	103	0.00
78 C	tetrachloroethene	2.676	2.670	0.2	104	0.00
79	1,1,1,2-tetrachloroethane	2.300	2.309	-0.4	102	0.00
80 C	chlorobenzene	5.075	5.099	-0.5	104	0.00
81 C	ethylbenzene	7.846	7.880	-0.4	103	0.00
83 C	m+p-xylene	6.330	6.430	-1.6	103	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619115.D
 Acq On : 16 Sep 2020 11:38 AM
 Operator : AIRLAB16:TS
 Sample : WG1410723-2,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 16 13:17:39 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 13:20:01 2020
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
84 C	bromoform	2.487	2.575	-3.5	100	0.00
85 C	styrene	5.333	5.332	0.0	101	0.00
86 C	1,1,2,2-tetrachloroethane	4.518	4.710	-4.2	107	0.00
87 C	o-xylene	6.367	6.514	-2.3	103	0.00
88	1,2,3-trichloropropane	3.468	3.499	-0.9	104	0.00
89	nonane	6.224	6.226	-0.0	101	0.00
91 C	isopropylbenzene	8.698	8.794	-1.1	103	0.00
92	bromobenzene	4.362	4.351	0.3	103	0.00
93	2-chlorotoluene	2.537	2.549	-0.5	104	0.00
94	n-propylbenzene	2.780	2.876	-3.5	105	0.00
95	4-chlorotoluene	2.428	2.480	-2.1	103	0.00
96	4-ethyl toluene	9.483	9.960	-5.0	103	0.00
97	1,3,5-trimethylbenzene	8.057	8.349	-3.6	104	0.00
98	tert-butylbenzene	7.873	8.216	-4.4	104	0.00
99	1,2,4-trimethylbenzene	7.577	8.140	-7.4	102	0.00
100	decane	5.921	6.036	-1.9	104	0.00
101 C	Benzyl Chloride	4.348	4.642	-6.8	94	0.00
102	1,3-dichlorobenzene	5.044	5.644	-11.9	109	0.00
103 C	1,4-dichlorobenzene	4.812	5.219	-8.5	104	0.00
104	sec-butylbenzene	11.138	11.596	-4.1	104	0.00
106	p-isopropyltoluene	9.528	9.921	-4.1	103	0.00
107	1,2-dichlorobenzene	4.853	5.317	-9.6	108	0.00
108	n-butylbenzene	8.030	8.442	-5.1	104	0.00
111 C	1,2-dibromo-3-chloropropane	1.661	1.671	-0.6	97	0.00
112	undecane	6.371	6.748	-5.9	104	0.00
114	dodecane	5.730	6.118	-6.8	92	0.00
115 C	1,2,4-trichlorobenzene	2.357	2.519	-6.9	95	0.00
116	naphthalene	7.713	7.825	-1.5	89	0.00
117	1,2,3-trichlorobenzene	2.483	2.596	-4.6	92	0.00
119 C	hexachlorobutadiene	2.522	2.827	-12.1	100	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619115.D
 Acq On : 16 Sep 2020 11:38 AM
 Operator : AIRLAB16:TS
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 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 13:20:01 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.392	49	289019	10.000	ppbV	-0.05
Standard Area = 289019			Recovery	=	100.00%	
43) 1,4-difluorobenzene	11.667	114	862875	10.000	ppbV	-0.04
Standard Area = 862875			Recovery	=	100.00%	
67) chlorobenzene-D5	16.400	54	122360	10.000	ppbV	-0.03
Standard Area = 122360			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds					Qvalue	
2) chlorodifluoromethane	3.766	51	247155	10.288	ppbV	97
3) propylene	3.796	41	170662M6	11.581	ppbV	
4) propane	3.820	29	162346	9.919	ppbV	93
5) dichlorodifluoromethane	3.874	85	306370	11.182	ppbV	99
6) chloromethane	4.048	50	175213	10.097	ppbV	99
7) Freon-114	4.174	85	423303	10.822	ppbV	100
8) methanol	4.252	31	303292	50.072	ppbV	99
9) vinyl chloride	4.300	62	170821	10.885	ppbV	98
10) 1,3-butadiene	4.456	54	135933	9.947	ppbV	93
11) butane	4.522	43	307345	10.524	ppbV	98
13) bromomethane	4.762	94	158294	11.067	ppbV	100
14) chloroethane	4.978	64	89164	10.923	ppbV	100
15) ethanol	5.158	31	589807	56.902	ppbV	94
16) dichlorofluoromethane	5.116	67	321340	11.076	ppbV	100
17) vinyl bromide	5.400	106	163022	10.483	ppbV	100
18) acrolein	5.563	56	66264	9.542	ppbV	98
19) acetone	5.717	43	1394818	55.624	ppbV	96
20) acetonitrile	5.403	41	157307	10.592	ppbV	100
21) trichlorofluoromethane	5.917	101	246262	11.082	ppbV	98
22) isopropyl alcohol	6.053	45	815765	25.709	ppbV	100
23) acrylonitrile	6.293	53	129263	9.478	ppbV	98
24) pentane	6.360	43	335939	10.978	ppbV	99
25) ethyl ether	6.407	31	224049	8.419	ppbV	94
26) 1,1-dichloroethene	6.682	61	204896	10.722	ppbV	97
27) tertiary butyl alcohol	6.784	59	225918	9.784	ppbV	93
28) methylene chloride	6.850	49	207030	10.228	ppbV	97
29) 3-chloropropene	6.988	41	234782	10.268	ppbV	97
30) carbon disulfide	7.132	76	520409	9.841	ppbV	99
31) Freon 113	7.174	101	326298	10.670	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619115.D
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 Operator : AIRLAB16:TS
 Sample : WG1410723-2,3,250,250
 Misc : WG1410723,ICAL17102
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 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 13:20:01 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) trans-1,2-dichloroethene	7.975	61	227823	10.478	ppbV	97
33) 1,1-dichloroethane	8.208	63	281437	10.503	ppbV	100
34) MTBE	8.300	73	400654	9.393	ppbV	98
35) vinyl acetate	8.433	43	427780	10.385	ppbV	100
36) 2-butanone	8.700	43	406324	10.280	ppbV	100
37) cis-1,2-dichloroethene	9.208	61	194624	10.444	ppbV	98
38) Ethyl Acetate	9.517	61	73163	10.881	ppbV	74
39) chloroform	9.558	83	303366	10.855	ppbV	99
40) Tetrahydrofuran	10.008	42	292711	10.460	ppbV	99
41) 2,2-dichloropropane	9.575	77	220679	10.171	ppbV	94
42) 1,2-dichloroethane	10.408	62	182412	11.319	ppbV	97
44) hexane	9.467	57	303374	10.321	ppbV	84
45) diisopropyl ether	9.483	87	155291	9.183	ppbV	91
46) tert-butyl ethyl ether	10.117	59	501201	9.718	ppbV	100
48) 1,1,1-trichloroethane	10.692	97	264684	10.307	ppbV	97
49) 1,1-dichloropropene	11.067	75	266494	9.712	ppbV	95
50) benzene	11.220	78	616670	9.704	ppbV	100
52) carbon tetrachloride	11.393	117	247917	10.355	ppbV	97
53) cyclohexane	11.533	56	316738	9.958	ppbV	98
54) tert-amyl methyl ether	11.940	73	508494	9.233	ppbV	98
55) dibromomethane	12.147	93	193290	10.570	ppbV	99
56) 1,2-dichloropropane	12.180	63	235972	10.459	ppbV	98
57) bromodichloromethane	12.413	83	327426	10.456	ppbV	98
58) 1,4-dioxane	12.467	88	145963	10.195	ppbV	99
59) trichloroethene	12.460	130	285036	10.412	ppbV	99
60) 2,2,4-trimethylpentane	12.507	57	1037210	10.308	ppbV	99
61) methyl methacrylate	12.720	41	391239	10.779	ppbV	98
62) heptane	12.833	43	511112	10.200	ppbV	99
63) cis-1,3-dichloropropene	13.475	75	301996	9.677	ppbV	98
64) 4-methyl-2-pentanone	13.533	43	609772	10.622	ppbV	99
65) trans-1,3-dichloropropene	14.100	75	277718	9.942	ppbV	98
66) 1,1,2-trichloroethane	14.300	97	257818	10.472	ppbV	98
68) toluene	14.617	91	742601	9.794	ppbV	100
71) 1,3-dichloropropane	14.650	76	337357	9.499	ppbV	99
72) 2-hexanone	14.925	43	530967	9.912	ppbV	99
74) dibromochloromethane	15.075	129	371728	10.156	ppbV	99
75) 1,2-dibromoethane	15.325	107	384091	9.883	ppbV	98
76) butyl acetate	15.592	73	87875	9.325	ppbV	91
77) octane	15.675	85	261607	9.788	ppbV	98
78) tetrachloroethene	15.792	166	326681	9.976	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
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 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 16 13:17:39 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Sep 03 13:20:01 2020
 Response via : Initial Calibration

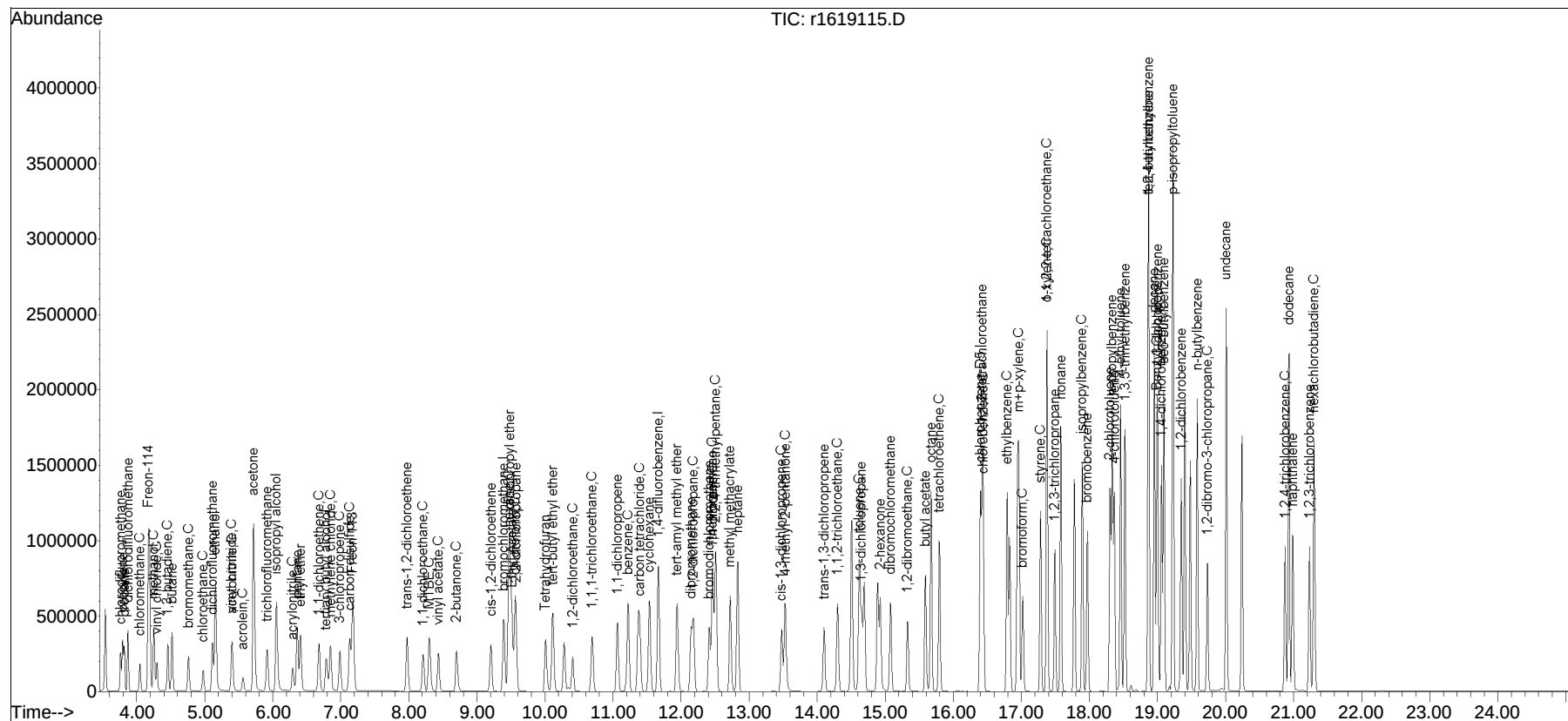
CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : Default-LCS-AP2 - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	1,1,1,2-tetrachloroethane	16.425	131	282526	10.039	ppbV	99
80)	chlorobenzene	16.442	112	623913	10.047	ppbV	99
81)	ethylbenzene	16.792	91	964245	10.044	ppbV	99
83)	m+p-xylene	16.958	91	1573524	20.316	ppbV	99
84)	bromoform	17.017	173	315041	10.351	ppbV	98
85)	styrene	17.283	104	652403	9.997	ppbV	98
86)	1,1,2,2-tetrachloroethane	17.375	83	576337	10.425	ppbV	98
87)	o-xylene	17.375	91	797001	10.231	ppbV	100
88)	1,2,3-trichloropropane	17.492	75	428143	10.090	ppbV	99
89)	nonane	17.583	43	761813	10.003	ppbV	99
91)	isopropylbenzene	17.892	105	1076088	10.111	ppbV	98
92)	bromobenzene	17.967	77	532363	9.974	ppbV	94
93)	2-chlorotoluene	18.300	126	311853	10.047	ppbV	95
94)	n-propylbenzene	18.333	120	351912	10.346	ppbV	95
95)	4-chlorotoluene	18.367	126	303425	10.211	ppbV	96
96)	4-ethyl toluene	18.458	105	1218756	10.504	ppbV	99
97)	1,3,5-trimethylbenzene	18.525	105	1021523	10.362	ppbV	100
98)	tert-butylbenzene	18.867	119	1005251	10.435	ppbV	100
99)	1,2,4-trimethylbenzene	18.867	105	996040	10.743	ppbV	90
100)	decane	18.950	57	738591	10.195	ppbV	98
101)	Benzyl Chloride	18.992	91	568018	10.676	ppbV	99
102)	1,3-dichlorobenzene	19.000	146	690555	11.189	ppbV	100
103)	1,4-dichlorobenzene	19.058	146	638593	10.846	ppbV	99
104)	sec-butylbenzene	19.092	105	1418866	10.411	ppbV	99
106)	p-isopropyltoluene	19.225	119	1213959	10.413	ppbV	99
107)	1,2-dichlorobenzene	19.350	146	650574	10.956	ppbV	99
108)	n-butylbenzene	19.583	91	1032937	10.512	ppbV	99
111)	1,2-dibromo-3-chloropr...	19.733	75	204431	10.057	ppbV	98
112)	undecane	20.008	57	825626	10.591	ppbV	95
114)	dodecane	20.933	57	748554	10.676	ppbV	98
115)	1,2,4-trichlorobenzene	20.875	180	308250	10.687	ppbV	99
116)	naphthalene	20.983	128	957443	10.144	ppbV	100
117)	1,2,3-trichlorobenzene	21.233	180	317619	10.456	ppbV	96
119)	hexachlorobutadiene	21.300	225	345894	11.208	ppbV	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : 0:\Forensics\Data\AirLab16\2020\09\200916T\
Data File : r1619115.D
Acq On    : 16 Sep 2020  11:38 AM
Operator  : AIRLAB16:TS
Sample    : WG1410723-2,3,250,250
Misc      : WG1410723,ICAL17102
ALS Vial  : 0      Sample Multiplier: 1
```

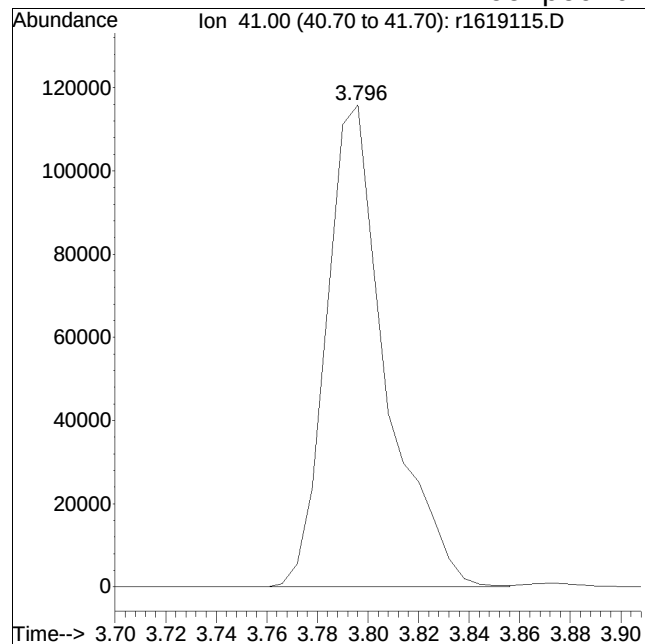
Quant Time: Sep 16 13:17:39 2020
Quant Method : 0:\Forensics\Data\AirLab16\2020\09\200916T\TFS16_200902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Sep 03 13:20:01 2020
Response via : Initial Calibration



Manual Integration Report

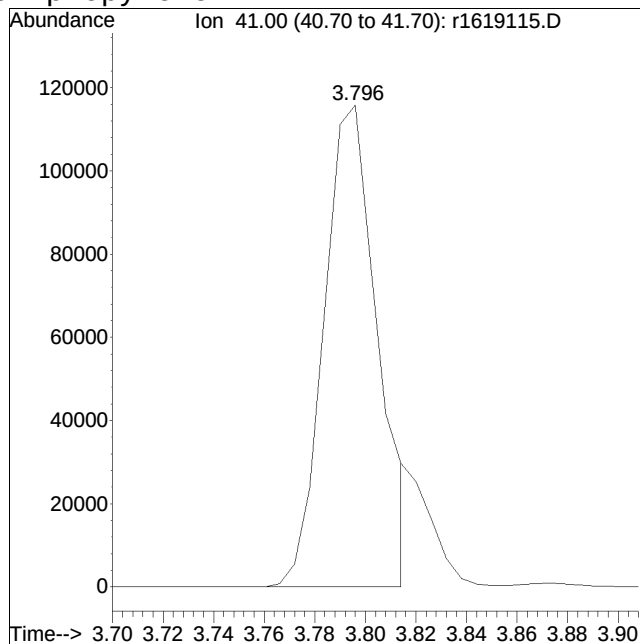
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619115.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:1: 8 Instrument :
Sample : WG1410723-2, 3, 250, 250 Quant Date : 9/16/2020 1:17 pm

Compound #3: propylene



Original Peak Response = 189414

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



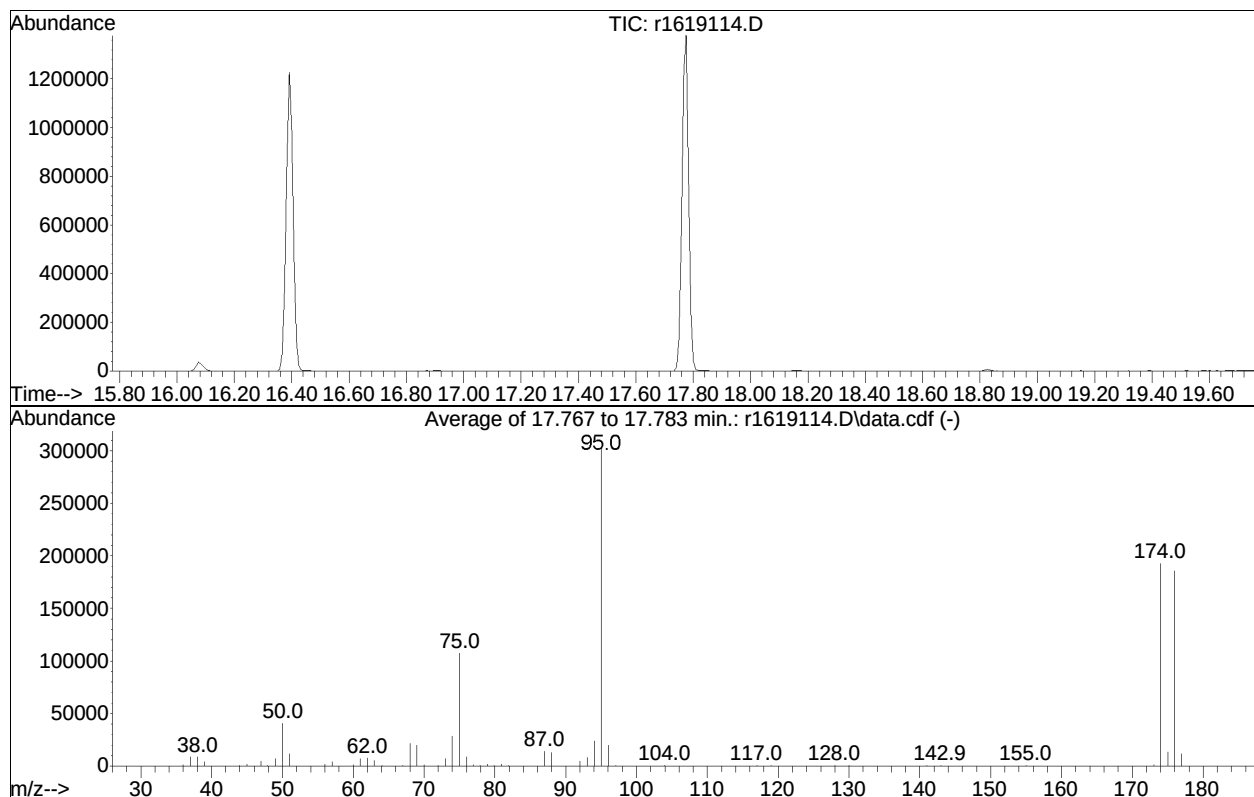
Manual Peak Response = 170662 M6

BFB

Data Path : 0:\Forensics\Data\AirLab16\2020\09\200916T\
 Data File : r1619114.D
 Acq On : 16 Sep 2020 10:56 AM
 Operator : AIRLAB16:TS
 Sample : WG1410723-1,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : 0:\Forensics\Data\AirLab16\2020\09\200916T\TFS16_200902.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis
 Last Update : Wed Sep 16 13:18:40 2020



Spectrum Information: Average of 17.767 to 17.783 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.5	40958	PASS
75	95	30	66	35.4	107460	PASS
95	95	100	100	100.0	303968	PASS
96	95	5	9	6.5	19891	PASS
173	174	0.00	2	0.5	935	PASS
174	95	50	120	63.5	193029	PASS
175	174	4	9	6.9	13232	PASS
176	174	93	101	96.4	186119	PASS
177	176	5	9	6.3	11714	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619118.D
 Acq On : 16 Sep 2020 2:48 PM
 Operator : AIRLAB16:TS
 Sample : WG1410723-4,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 05:37:47 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.400	49	307422	10.000	ppbV	0.00
Standard Area = 289019			Recovery = 106.37%			
43) 1,4-difluorobenzene	11.667	114	877447	10.000	ppbV	0.00
Standard Area = 862875			Recovery = 101.69%			
67) chlorobenzene-D5	16.400	54	118375	10.000	ppbV	0.00
Standard Area = 122360			Recovery = 96.74%			

System Monitoring Compounds

Target Compounds					Qvalue
5) dichlorodifluoromethane	3.814		0	N.D.	
6) chloromethane	0.000		0	N.D.	
7) Freon-114	0.000		0	N.D.	
9) vinyl chloride	0.000		0	N.D.	
10) 1,3-butadiene	0.000		0	N.D.	
13) bromomethane	0.000		0	N.D.	
14) chloroethane	0.000		0	N.D.	
15) ethanol	5.206	31	911	0.083 ppbV	99
17) vinyl bromide	0.000		0	N.D.	
19) acetone	5.707		0	N.D.	
21) trichlorofluoromethane	0.000		0	N.D.	
22) isopropyl alcohol	6.063		0	N.D.	
26) 1,1-dichloroethene	0.000		0	N.D.	
27) tertiary butyl alcohol	0.000		0	N.D.	
28) methylene chloride	6.856		0	N.D.	
29) 3-chloropropene	7.054		0	N.D.	
30) carbon disulfide	0.000		0	N.D.	
31) Freon 113	0.000		0	N.D.	
32) trans-1,2-dichloroethene	0.000		0	N.D.	
33) 1,1-dichloroethane	0.000		0	N.D.	
34) MTBE	0.000		0	N.D.	
36) 2-butanone	8.683		0	N.D.	
37) cis-1,2-dichloroethene	0.000		0	N.D.	
38) Ethyl Acetate	0.000		0	N.D.	
39) chloroform	0.000		0	N.D.	
40) Tetrahydrofuran	0.000		0	N.D.	
42) 1,2-dichloroethane	0.000		0	N.D.	

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619118.D
 Acq On : 16 Sep 2020 2:48 PM
 Operator : AIRLAB16:TS
 Sample : WG1410723-4,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 05:37:47 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) hexane	0.000		0		N.D.	
48) 1,1,1-trichloroethane	0.000		0		N.D.	
50) benzene	11.227		0		N.D.	
52) carbon tetrachloride	0.000		0		N.D.	
53) cyclohexane	0.000		0		N.D.	d
56) 1,2-dichloropropane	0.000		0		N.D.	
57) bromodichloromethane	0.000		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
59) trichloroethene	0.000		0		N.D.	
60) 2,2,4-trimethylpentane	0.000		0		N.D.	
62) heptane	0.000		0		N.D.	
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	0.000		0		N.D.	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	14.625		0		N.D.	
72) 2-hexanone	14.992		0		N.D.	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
78) tetrachloroethene	0.000		0		N.D.	
80) chlorobenzene	16.442		0		N.D.	
81) ethylbenzene	0.000		0		N.D.	
83) m+p-xylene	16.967		0		N.D.	
84) bromoform	0.000		0		N.D.	
85) styrene	17.283		0		N.D.	
86) 1,1,2,2-tetrachloroethane	17.383		0		N.D.	
87) o-xylene	17.383		0		N.D.	
96) 4-ethyl toluene	18.458		0		N.D.	
97) 1,3,5-trimethylbenzene	18.525		0		N.D.	
99) 1,2,4-trimethylbenzene	18.875		0		N.D.	
101) Benzyl Chloride	18.992		0		N.D.	
102) 1,3-dichlorobenzene	19.000		0		N.D.	
103) 1,4-dichlorobenzene	19.067		0		N.D.	
107) 1,2-dichlorobenzene	19.350		0		N.D.	
115) 1,2,4-trichlorobenzene	20.875	180	1802	0.065	ppbV	95
119) hexachlorobutadiene	21.300		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619118.D
 Acq On : 16 Sep 2020 2:48 PM
 Operator : AIRLAB16:TS
 Sample : WG1410723-4,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 05:37:47 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

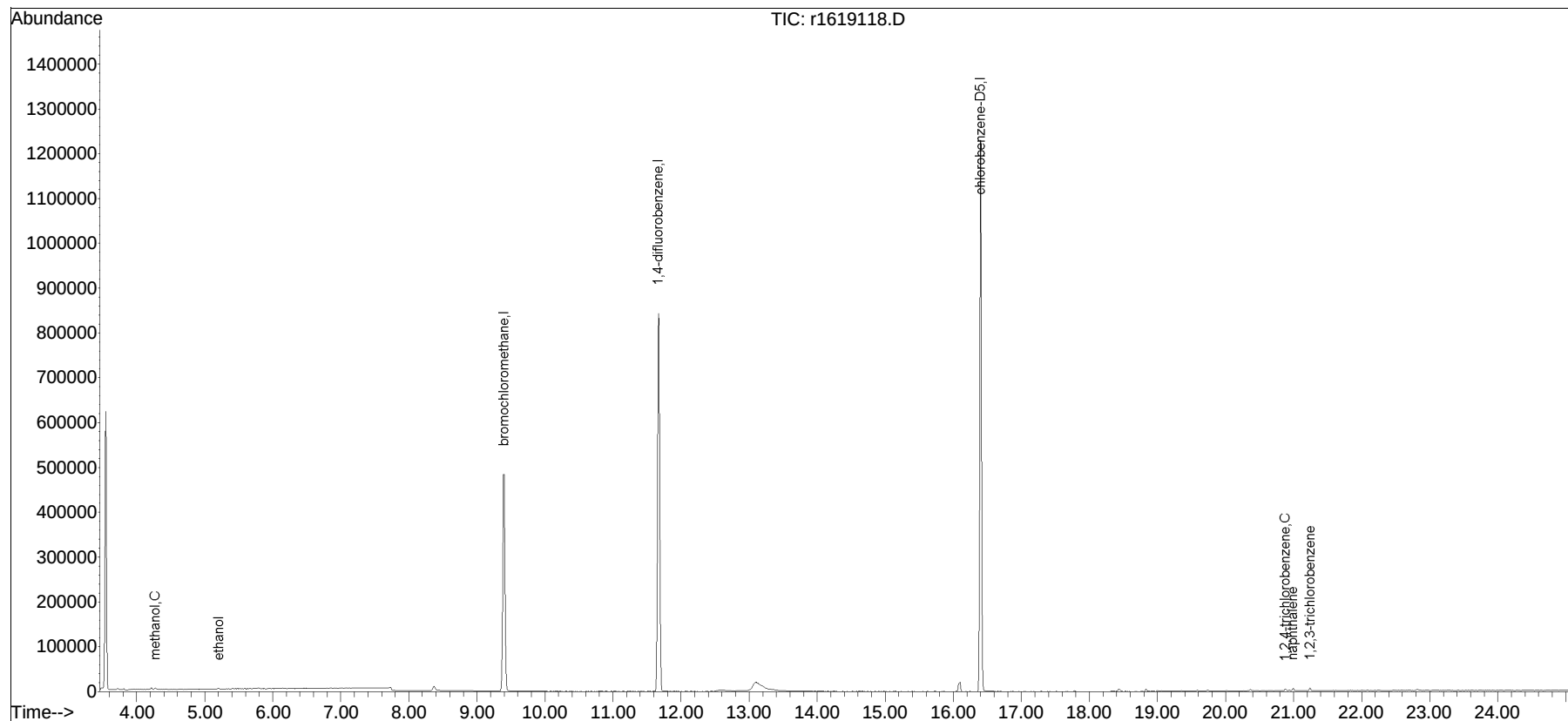
CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : Default-LCS-AP2 - All compounds listed

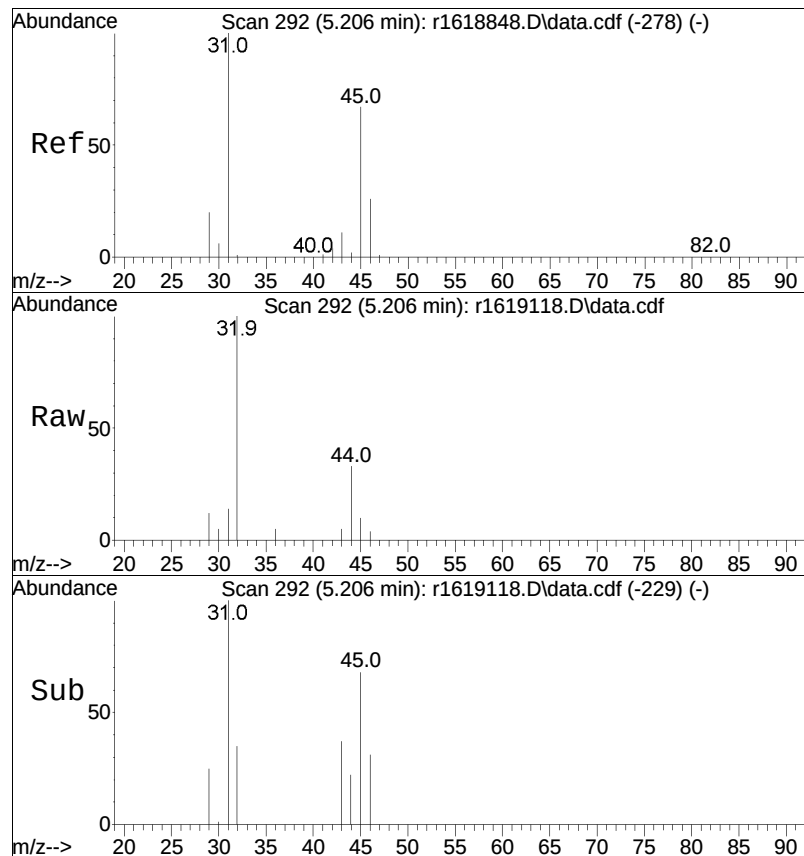
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listed916T\r1619115.D

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
Data File : r1619118.D
Acq On : 16 Sep 2020 2:48 PM
Operator : AIRLAB16:TS
Sample : WG1410723-4,3,250,250
Misc : WG1410723,ICAL17102
ALS Vial : 0 Sample Multiplier: 1

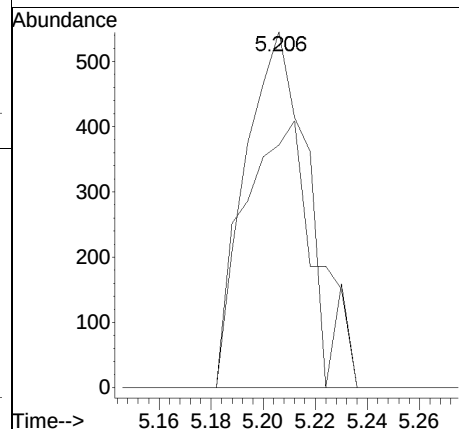
Quant Time: Sep 17 05:37:47 2020
Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Sep 16 13:18:40 2020
Response via : Initial Calibration

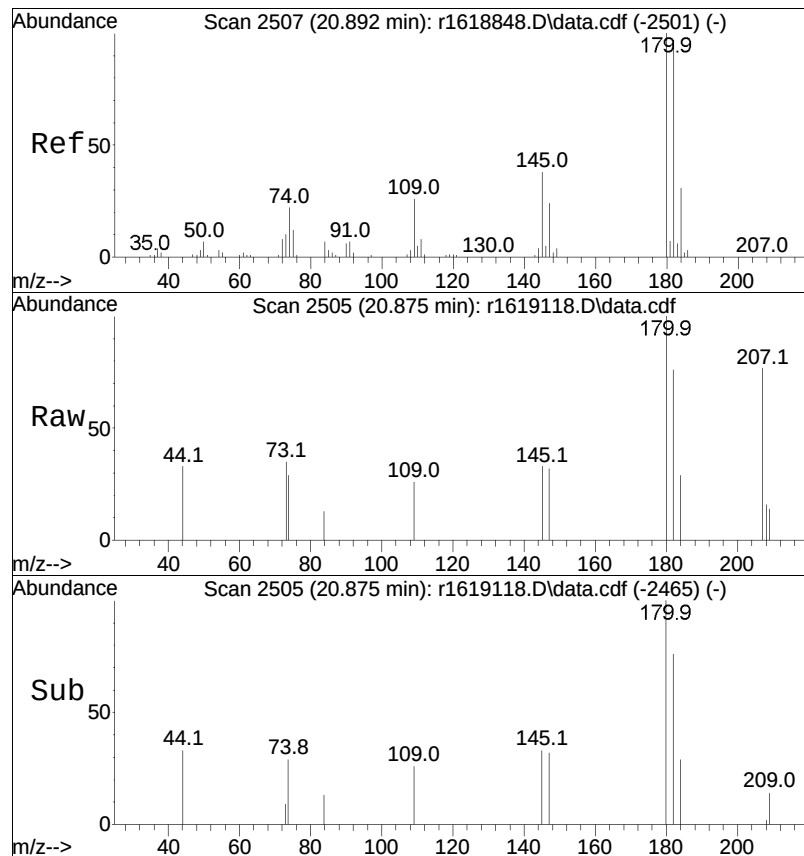




#15
ethanol
Concen: 0.08 ppbV
RT: 5.206 min Scan# 292
Delta R.T. 0.048 min
Lab File: r1619118.D
Acq: 16 Sep 2020 2:48 PM

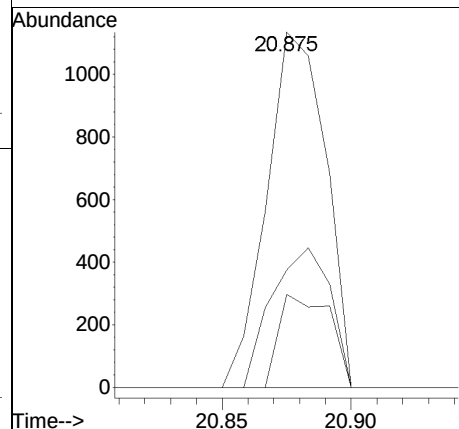
Tgt Ion:	31	Resp:	911
Ion Ratio	Lower	Upper	
31	100		
45	68.3	54.0	81.0





#115
 1,2,4-trichlorobenzene
 Concen: 0.06 ppbV
 RT: 20.875 min Scan# 2505
 Delta R.T. 0.000 min
 Lab File: r1619118.D
 Acq: 16 Sep 2020 2:48 PM

Tgt	Ion:180	Resp:	1802
Ion	Ratio	Lower	Upper
180	100		
145	33.0	30.1	45.1
109	26.2	20.4	30.6



Manual Integration Report

Data Path	: 0:\Forensics\Data\Airlab16Q	Method	: TFS16_200902.M
Data File	: r1619118.D	Operator	: AIRLAB16:TS
Date Inj'd	: 9/16/2020 0:2: 8	Instrument	:
Sample	: WG1410723-4,3,250,250	Quant Date	: 9/17/2020 5:37 am

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619118.D
 Acq On : 16 Sep 2020 2:48 PM
 Operator : AIRLAB16:TS
 Sample : WG1410723-4,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : OFF

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 1 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
 Peak separation: 5

Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Title : T0-14A/T0-15 SIM/Full Scan Analysis

Signal : TIC: r1619118.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.367	946	950	957	rBV	9298	22860	1.11%	0.455%
2	9.392	1064	1071	1082	rBV	483988	1077670	52.50%	21.450%
3	11.667	1354	1362	1378	rVB	842887	1774852	86.46%	35.327%
4	13.093	1557	1576	1577	rBV	18706	62847	3.06%	1.251%
5	16.100	1931	1936	1940	rVB	21247	33094	1.61%	0.659%
6	16.400	1967	1972	1986	rVB	1229837	2052707	100.00%	40.858%

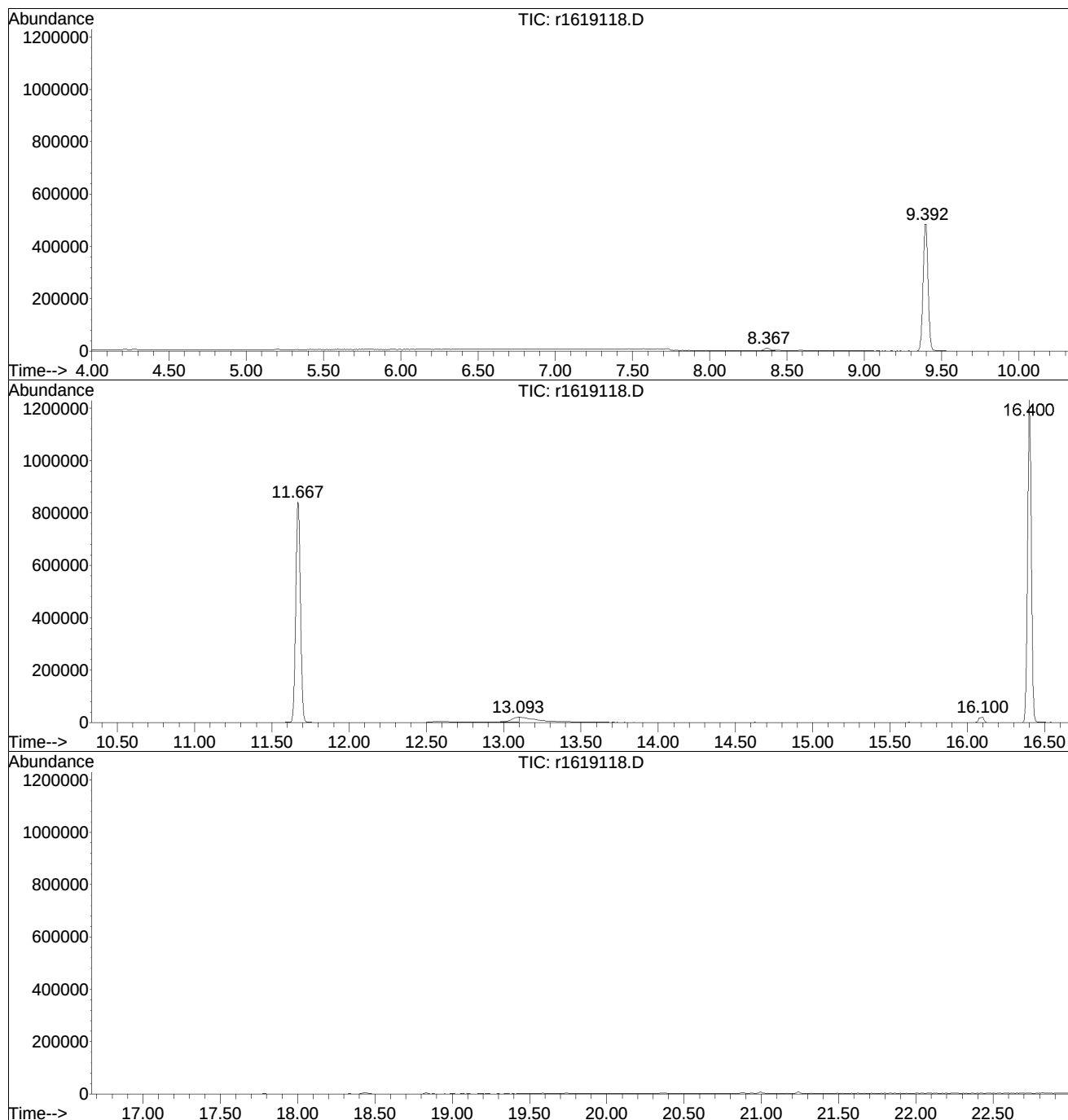
Sum of corrected areas: 5024030

LSC Report - Integrated Chromatogram

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
Data File : r1619118.D
Acq On : 16 Sep 2020 2:48 PM
Operator : AIRLAB16:TS
Sample : WG1410723-4,3,250,250
Misc : WG1410723,ICAL17102
ALS Vial : 0 Sample Multiplier: 1

Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis

TIC Library : 0:\Organics\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
Data File : r1619118.D
Acq On : 16 Sep 2020 2:48 PM
Operator : AIRLAB16:TS
Sample : WG1410723-4,3,250,250
Misc : WG1410723,ICAL17102
ALS Vial : 0 Sample Multiplier: 1

Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis

TIC Library : 0:\Organics\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Tentatively Identified Compound (LSC) summary

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619118.D
 Acq On : 16 Sep 2020 2:48 PM
 Operator : AIRLAB16:TS
 Sample : WG1410723-4,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis

TIC Library : 0:\Organics\DATABASE\NIST02.L
 TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619116.D
 Acq On : 16 Sep 2020 12:20 PM
 Operator : AIRLAB16:TS
 Sample : WG1410723-3,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 16 13:19:18 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	bromochloromethane	10.000	10.000	0.0	96	0.00
2	chlorodifluoromethane	10.000	8.198	18.0	82	0.00
3	propylene	10.000	10.513	-5.1	102	0.00
4	propane	10.000	8.014	19.9	79	0.00
5	dichlorodifluoromethane	10.000	9.322	6.8	94	0.00
6 C	chloromethane	10.000	8.808	11.9	89	0.00
7	Freon-114	10.000	9.380	6.2	92	0.00
8 C	methanol	50.000	37.585	24.8	70	0.00
9 C	vinyl chloride	10.000	9.166	8.3	91	0.00
10 C	1,3-butadiene	10.000	9.294	7.1	92	0.00
11	butane	10.000	8.279	17.2	83	0.00
13 C	bromomethane	10.000	9.627	3.7	94	0.00
14 C	chloroethane	10.000	9.477	5.2	93	0.00
15	ethanol	50.000	43.822	12.4	81	0.00
16	dichlorofluoromethane	10.000	8.726	12.7	85	0.00
17 C	vinyl bromide	10.000	9.185	8.1	89	0.00
18 C	acrolein	10.000	8.212	17.9	82	0.00
19	acetone	50.000	40.390	19.2	78	0.00
20 C	acetonitrile	10.000	8.686	13.1	87	0.00
21	trichlorofluoromethane	10.000	10.067	-0.7	98	0.00
22	isopropyl alcohol	25.000	19.914	20.3	76	0.00
23 C	acrylonitrile	10.000	8.492	15.1	84	0.00
24	pentane	10.000	9.526	4.7	92	0.00
25	ethyl ether	10.000	7.314	26.9	65	0.00
26 C	1,1-dichloroethene	10.000	10.153	-1.5	99	0.00
27	tertiary butyl alcohol	10.000	8.858	11.4	84	0.00
28 C	methylene chloride	10.000	9.844	1.6	94	0.00
29 C	3-chloropropene	10.000	10.281	-2.8	101	0.00
30 C	carbon disulfide	10.000	8.779	12.2	83	0.00
31	Freon 113	10.000	10.198	-2.0	98	0.00
32	trans-1,2-dichloroethene	10.000	9.405	6.0	92	0.00
33 C	1,1-dichloroethane	10.000	9.814	1.9	95	0.00
34 C	MTBE	10.000	8.961	10.4	86	0.00
35 C	vinyl acetate	10.000	9.641	3.6	88	0.00
36 C	2-butanone	10.000	9.740	2.6	91	0.00
37	cis-1,2-dichloroethene	10.000	10.176	-1.8	102	0.00
38	Ethyl Acetate	10.000	9.770	2.3	96	0.00
39 C	chloroform	10.000	10.437	-4.4	101	0.00
40	Tetrahydrofuran	10.000	9.544	4.6	90	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619116.D
 Acq On : 16 Sep 2020 12:20 PM
 Operator : AIRLAB16:TS
 Sample : WG1410723-3,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 16 13:19:18 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	10.000	8.873	11.3	85	0.00
42 C	1,2-dichloroethane	10.000	10.496	-5.0	101	0.00
43 I	1,4-difluorobenzene	10.000	10.000	0.0	97	0.00
44 C	hexane	10.000	9.705	2.9	97	0.00
45	diisopropyl ether	10.000	8.038	19.6	86	0.00
46	tert-butyl ethyl ether	10.000	8.533	14.7	84	0.00
48 C	1,1,1-trichloroethane	10.000	9.872	1.3	97	0.00
49	1,1-dichloropropene	10.000	8.989	10.1	89	0.00
50 C	benzene	10.000	9.228	7.7	95	0.00
52 C	carbon tetrachloride	10.000	10.172	-1.7	100	0.00
53	cyclohexane	10.000	9.479	5.2	95	0.00
54	tert-amyl methyl ether	10.000	8.320	16.8	83	0.00
55	dibromomethane	10.000	9.341	6.6	93	0.00
56 C	1,2-dichloropropane	10.000	9.952	0.5	99	0.00
57	bromodichloromethane	10.000	9.981	0.2	98	0.00
58 C	1,4-dioxane	10.000	9.661	3.4	97	0.00
59 C	trichloroethene	10.000	10.074	-0.7	100	0.00
60 C	2,2,4-trimethylpentane	10.000	9.819	1.8	98	0.00
61	methyl methacrylate	10.000	7.012	29.9	66	0.00
62	heptane	10.000	9.817	1.8	97	0.00
63 C	cis-1,3-dichloropropene	10.000	9.828	1.7	97	0.00
64 C	4-methyl-2-pentanone	10.000	10.247	-2.5	97	0.00
65	trans-1,3-dichloropropene	10.000	8.567	14.3	83	0.00
66 C	1,1,2-trichloroethane	10.000	10.192	-1.9	101	0.00
67 I	chlorobenzene-D5	10.000	10.000	0.0	102	0.00
68 C	toluene	10.000	9.382	6.2	99	0.00
71	1,3-dichloropropane	10.000	8.462	15.4	89	0.00
72	2-hexanone	10.000	9.520	4.8	95	0.00
74	dibromochloromethane	10.000	10.013	-0.1	101	0.00
75 C	1,2-dibromoethane	10.000	9.612	3.9	99	0.00
76	butyl acetate	10.000	8.089	19.1	83	0.00
77	octane	10.000	8.670	13.3	91	0.00
78 C	tetrachloroethene	10.000	9.611	3.9	101	0.00
79	1,1,1,2-tetrachloroethane	10.000	8.873	11.3	90	0.00
80 C	chlorobenzene	10.000	9.704	3.0	101	0.00
81 C	ethylbenzene	10.000	9.723	2.8	100	0.00
83 C	m+p-xylene	20.000	19.721	1.4	100	0.00

Evaluate Continuing Calibration Report

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619116.D
 Acq On : 16 Sep 2020 12:20 PM
 Operator : AIRLAB16:TS
 Sample : WG1410723-3,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 16 13:19:18 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
84 C	bromoform	10.000	10.104	-1.0	98	0.00
85 C	styrene	10.000	9.614	3.9	97	0.00
86 C	1,1,2,2-tetrachloroethane	10.000	9.969	0.3	102	0.00
87 C	o-xylene	10.000	9.983	0.2	101	0.00
88	1,2,3-trichloropropane	10.000	8.914	10.9	92	0.00
89	nonane	10.000	8.889	11.1	90	0.00
91 C	isopropylbenzene	10.000	9.310	6.9	95	0.00
92	bromobenzene	10.000	8.896	11.0	92	0.00
93	2-chlorotoluene	10.000	8.937	10.6	92	0.00
94	n-propylbenzene	10.000	9.163	8.4	93	0.00
95	4-chlorotoluene	10.000	8.973	10.3	91	0.00
96	4-ethyl toluene	10.000	9.722	2.8	96	0.00
97	1,3,5-trimethylbenzene	10.000	9.748	2.5	97	0.00
98	tert-butylbenzene	10.000	9.277	7.2	93	0.00
99	1,2,4-trimethylbenzene	10.000	10.378	-3.8	99	0.00
100	decane	10.000	9.058	9.4	93	0.00
101 C	Benzyl Chloride	10.000	9.629	3.7	85	0.00
102	1,3-dichlorobenzene	10.000	10.426	-4.3	102	0.00
103 C	1,4-dichlorobenzene	10.000	10.234	-2.3	98	0.00
104	sec-butylbenzene	10.000	9.188	8.1	92	0.00
106	p-isopropyltoluene	10.000	8.610	13.9	86	0.00
107	1,2-dichlorobenzene	10.000	10.190	-1.9	100	0.00
108	n-butylbenzene	10.000	9.522	4.8	94	0.00
111 C	1,2-dibromo-3-chloropropane	10.000	8.458	15.4	82	0.00
112	undecane	10.000	9.454	5.5	93	0.00
114	dodecane	10.000	9.757	2.4	84	0.00
115 C	1,2,4-trichlorobenzene	10.000	9.648	3.5	85	0.00
116	naphthalene	10.000	8.062	19.4	71	0.00
117	1,2,3-trichlorobenzene	10.000	8.680	13.2	76	0.00
119 C	hexachlorobutadiene	10.000	10.530	-5.3	94	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619116.D
 Acq On : 16 Sep 2020 12:20 PM
 Operator : AIRLAB16:TS
 Sample : WG1410723-3,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 16 13:19:18 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.392	49	293005	10.000	ppbV	0.00
Standard Area = 289019			Recovery =	101.38%		
43) 1,4-difluorobenzene	11.667	114	869280	10.000	ppbV	0.00
Standard Area = 862875			Recovery =	100.74%		
67) chlorobenzene-D5	16.400	54	122402	10.000	ppbV	0.00
Standard Area = 122360			Recovery =	100.03%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	3.874	85	258938	9.322	ppbV	98
6) chloromethane	4.054	50	154960	8.808	ppbV	100
7) Freon-114	4.174	85	371966	9.380	ppbV	99
9) vinyl chloride	4.300	62	145833	9.166	ppbV	98
10) 1,3-butadiene	4.462	54	128765	9.294	ppbV	99
13) bromomethane	4.768	94	139598	9.627	ppbV	100
14) chloroethane	4.978	64	78429	9.477	ppbV	98
15) ethanol	5.164	31	460493	43.822	ppbV	97
17) vinyl bromide	5.403	106	144802	9.185	ppbV	98
19) acetone	5.717	43	1026778	40.390	ppbV	97
21) trichlorofluoromethane	5.917	101	226799	10.067	ppbV	96
22) isopropyl alcohol	6.053	45	640598	19.914	ppbV	99
26) 1,1-dichloroethene	6.676	61	196695	10.153	ppbV	99
27) tertiary butyl alcohol	6.784	59	207368	8.858	ppbV	94
28) methylene chloride	6.844	49	202019	9.844	ppbV	97
29) 3-chloropropene	6.988	41	238334	10.281	ppbV	97
30) carbon disulfide	7.132	76	470641	8.779	ppbV	99
31) Freon 113	7.174	101	316149	10.198	ppbV	100
32) trans-1,2-dichloroethene	7.975	61	207298	9.405	ppbV	95
33) 1,1-dichloroethane	8.208	63	266612	9.814	ppbV	100
34) MTBE	8.300	73	387501	8.961	ppbV	98
36) 2-butanone	8.700	43	390289	9.740	ppbV	99
37) cis-1,2-dichloroethene	9.200	61	192250	10.176	ppbV	99
38) Ethyl Acetate	9.508	61	66601	9.770	ppbV	89
39) chloroform	9.558	83	295708	10.437	ppbV	99
40) Tetrahydrofuran	10.008	42	270771	9.544	ppbV	99
42) 1,2-dichloroethane	10.408	62	171473	10.496	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619116.D
 Acq On : 16 Sep 2020 12:20 PM
 Operator : AIRLAB16:TS
 Sample : WG1410723-3,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 16 13:19:18 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) hexane	9.467	57	287384	9.705	ppbV	89
48) 1,1,1-trichloroethane	10.692	97	255414	9.872	ppbV	96
50) benzene	11.220	78	590794	9.228	ppbV	99
52) carbon tetrachloride	11.393	117	245344	10.172	ppbV	98
53) cyclohexane	11.533	56	303746	9.479	ppbV	98
56) 1,2-dichloropropane	12.180	63	226190	9.952	ppbV	98
57) bromodichloromethane	12.413	83	314893	9.981	ppbV	100
58) 1,4-dioxane	12.460	88	139346	9.661	ppbV	99
59) trichloroethene	12.460	130	277842	10.074	ppbV	98
60) 2,2,4-trimethylpentane	12.507	57	995340	9.819	ppbV	99
62) heptane	12.827	43	495598	9.817	ppbV	99
63) cis-1,3-dichloropropene	13.475	75	308986	9.828	ppbV	98
64) 4-methyl-2-pentanone	13.525	43	592571	10.247	ppbV	99
65) trans-1,3-dichloropropene	14.100	75	241106	8.567	ppbV	96
66) 1,1,2-trichloroethane	14.300	97	252793	10.192	ppbV	98
68) toluene	14.617	91	711598	9.382	ppbV	100
72) 2-hexanone	14.925	43	510125	9.520	ppbV	99
74) dibromochloromethane	15.075	129	366630	10.013	ppbV	99
75) 1,2-dibromoethane	15.325	107	373712	9.612	ppbV	99
78) tetrachloroethene	15.792	166	314852	9.611	ppbV	96
80) chlorobenzene	16.433	112	602853	9.704	ppbV	97
81) ethylbenzene	16.792	91	933736	9.723	ppbV	98
83) m+p-xylene	16.958	91	1527929	19.721	ppbV	100
84) bromoform	17.017	173	307614	10.104	ppbV	99
85) styrene	17.283	104	627623	9.614	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.375	83	551311	9.969	ppbV	99
87) o-xylene	17.375	91	777924	9.983	ppbV	99
96) 4-ethyl toluene	18.458	105	1128378	9.722	ppbV	99
97) 1,3,5-trimethylbenzene	18.525	105	961307	9.748	ppbV	97
99) 1,2,4-trimethylbenzene	18.867	105	962513	10.378	ppbV	95
101) Benzyl Chloride	18.992	91	512495	9.629	ppbV	99
102) 1,3-dichlorobenzene	19.000	146	643722	10.426	ppbV	99
103) 1,4-dichlorobenzene	19.058	146	602786	10.234	ppbV	99
107) 1,2-dichlorobenzene	19.350	146	605278	10.190	ppbV	99
115) 1,2,4-trichlorobenzene	20.875	180	278373	9.648	ppbV	99
119) hexachlorobutadiene	21.300	225	325068	10.530	ppbV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619116.D
 Acq On : 16 Sep 2020 12:20 PM
 Operator : AIRLAB16:TS
 Sample : WG1410723-3,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

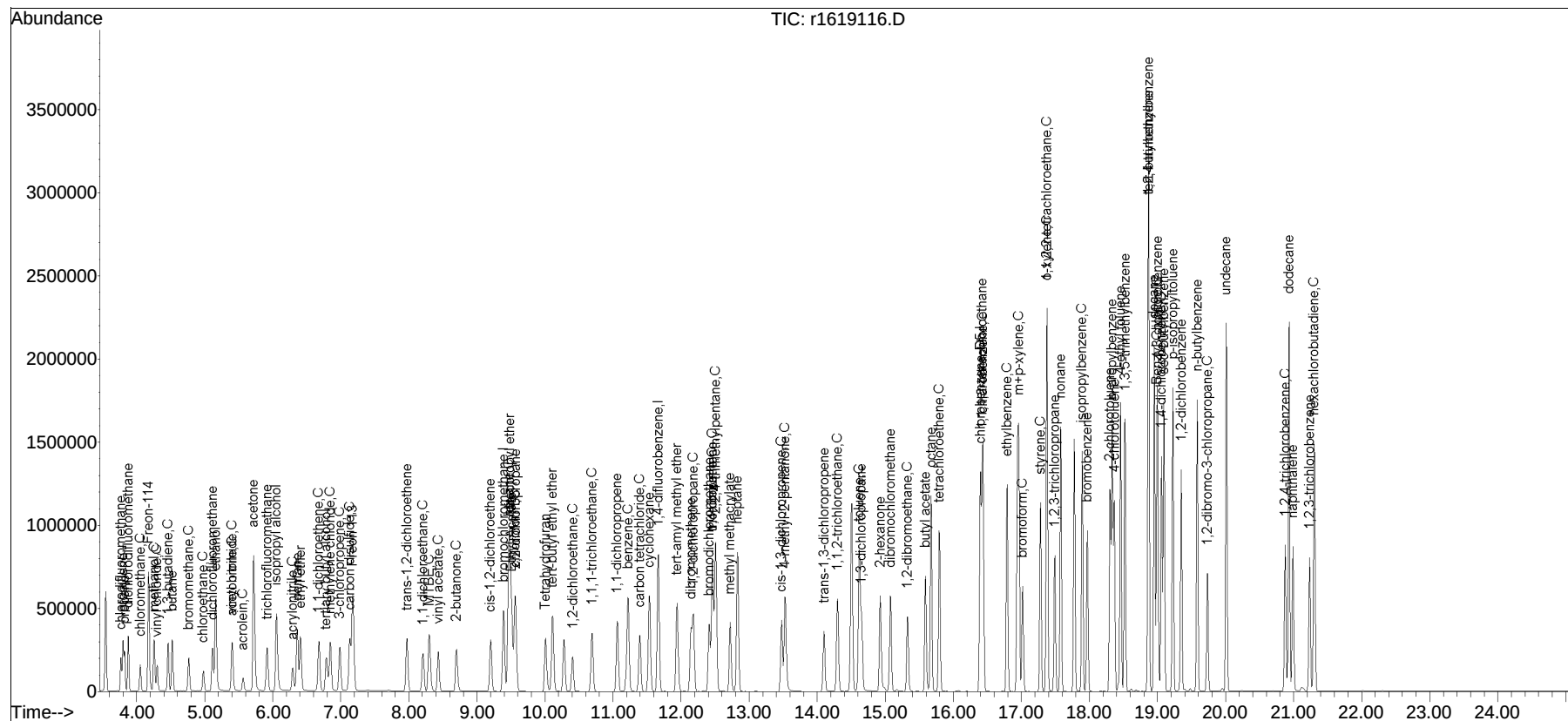
Quant Time: Sep 16 13:19:18 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

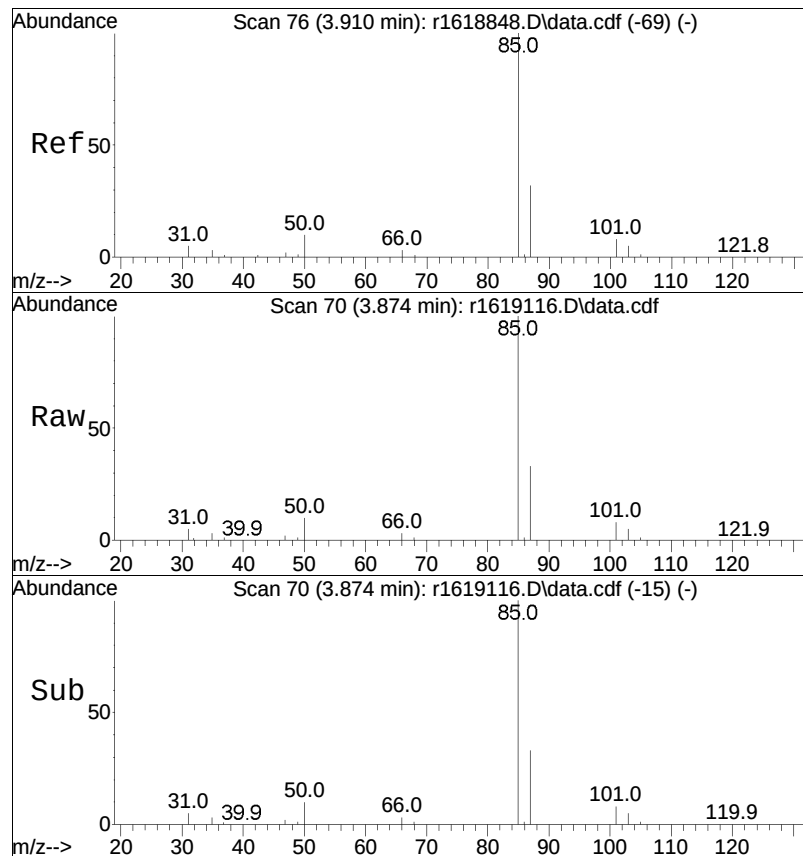
CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

```
Data Path : 0:\Forensics\Data\AirLab16\2020\09\200916T\
Data File : r1619116.D
Acq On    : 16 Sep 2020 12:20 PM
Operator  : AIRLAB16:TS
Sample    : WG1410723-3,3,250,250
Misc      : WG1410723,ICAL17102
ALS Vial  : 0 Sample Multiplier: 1
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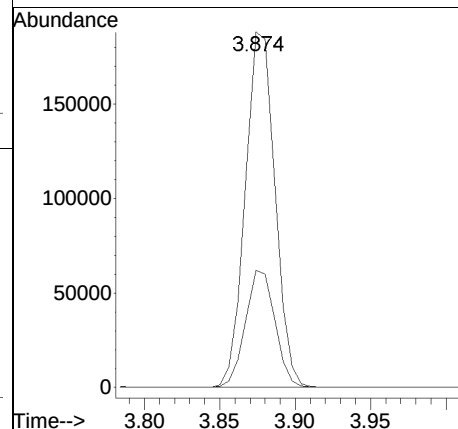
Quant Time: Sep 16 13:19:18 2020
Quant Method : 0:\Forensics\Data\AirLab16\2020\09\200916T\TFS16_200902.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Sep 16 13:18:40 2020
Response via : Initial Calibration

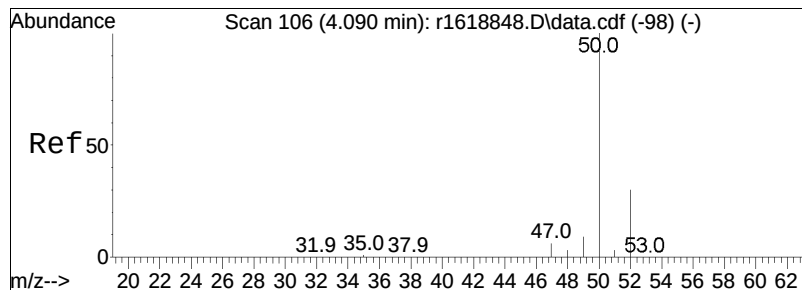




#5
dichlorodifluoromethane
Concen: 9.32 ppbV
RT: 3.874 min Scan# 70
Delta R.T. 0.000 min
Lab File: r1619116.D
Acq: 16 Sep 2020 12:20 PM

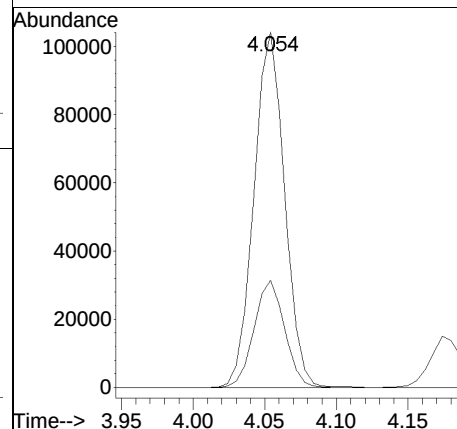
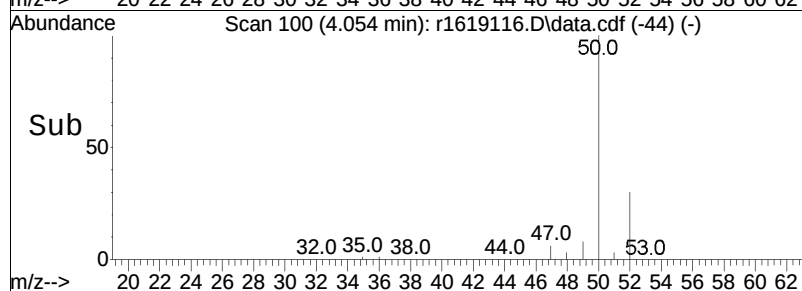
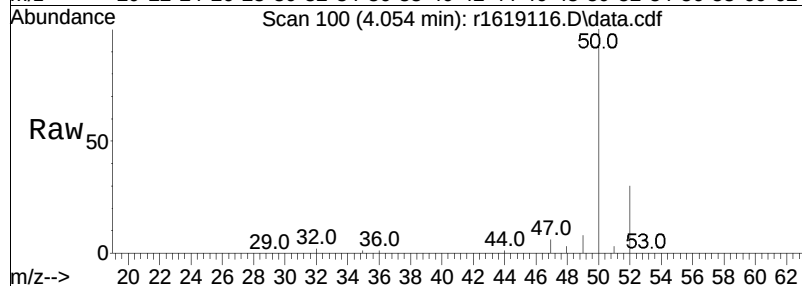
Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.0	25.4	38.2

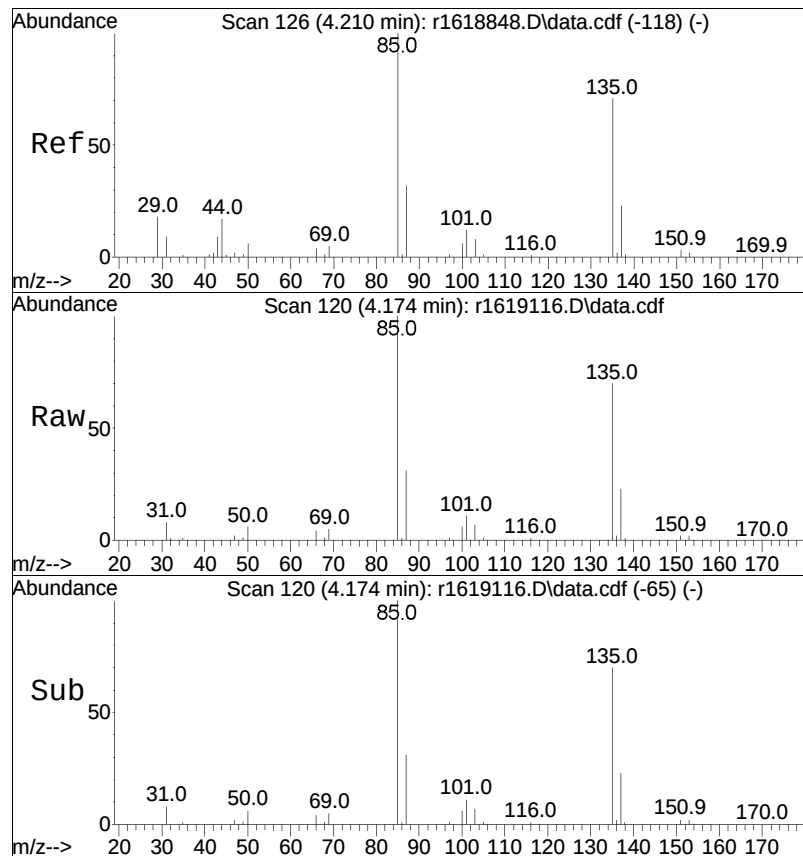




#6
 chloromethane
 Concen: 8.81 ppbV
 RT: 4.054 min Scan# 100
 Delta R.T. 0.006 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

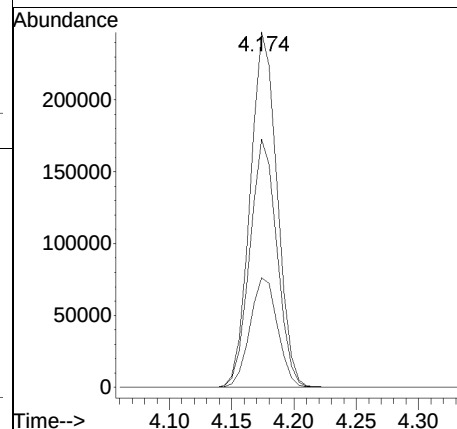
Tgt Ion	Ratio	Lower	Upper
50	100		
52	30.2	24.2	36.4

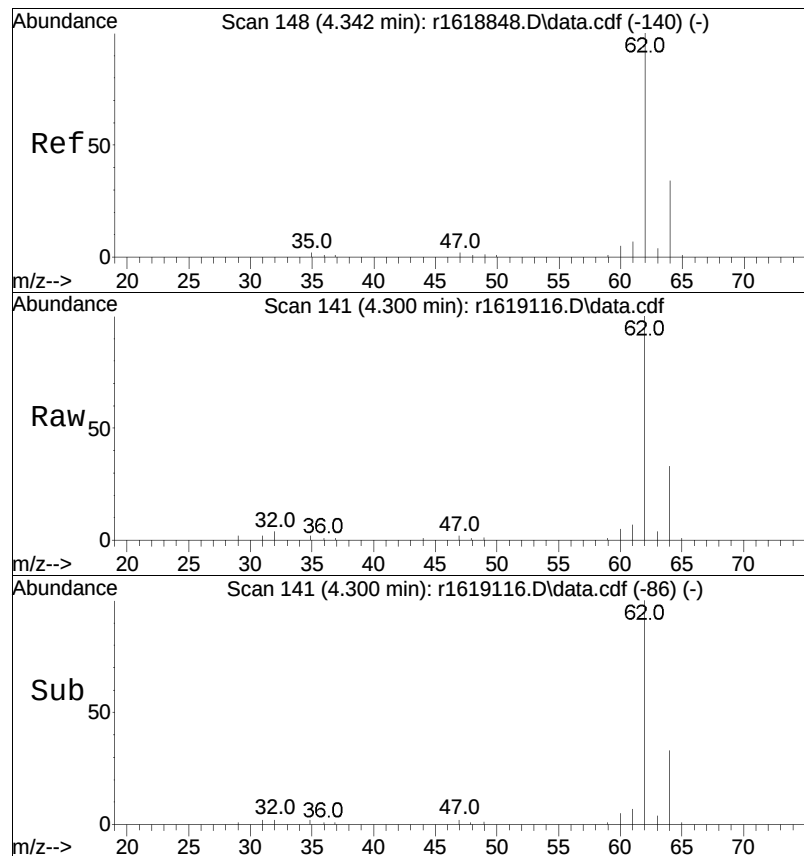




#7
 Freon-114
 Concen: 9.38 ppbV
 RT: 4.174 min Scan# 120
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

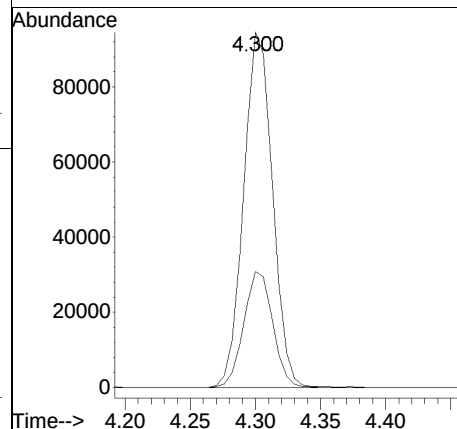
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	371966		
87	30.9		25.4	38.0
135	69.8		56.6	85.0

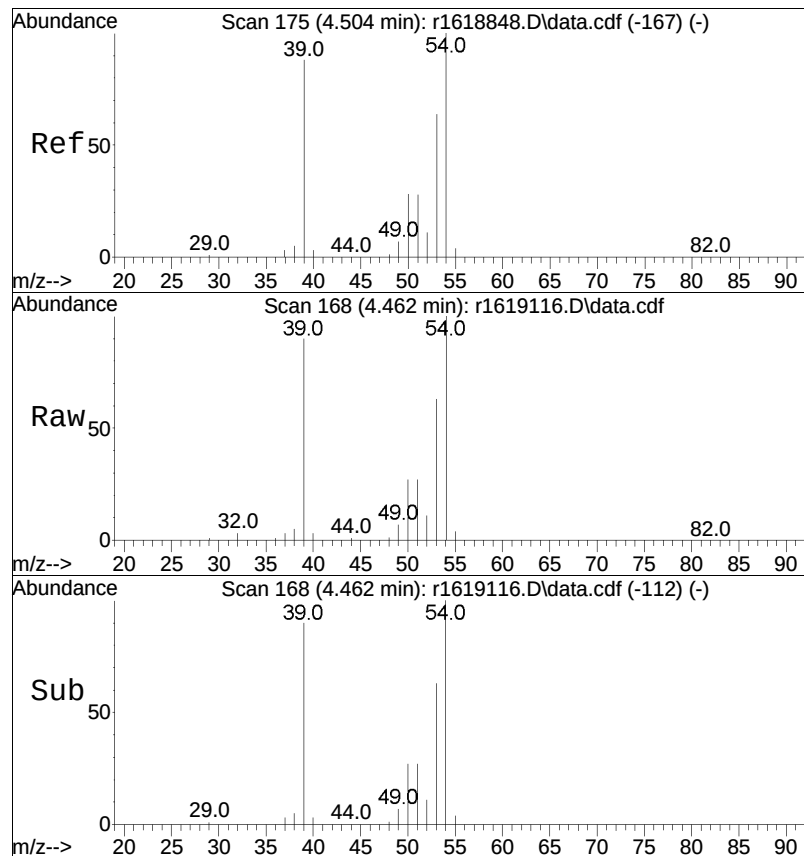




#9
 vinyl chloride
 Concen: 9.17 ppbV
 RT: 4.300 min Scan# 141
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

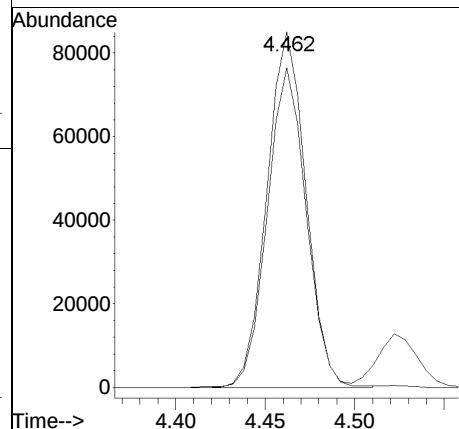
Tgt	Ion	Ratio	Lower	Upper
62	100			
64	32.6	27.0	40.6	

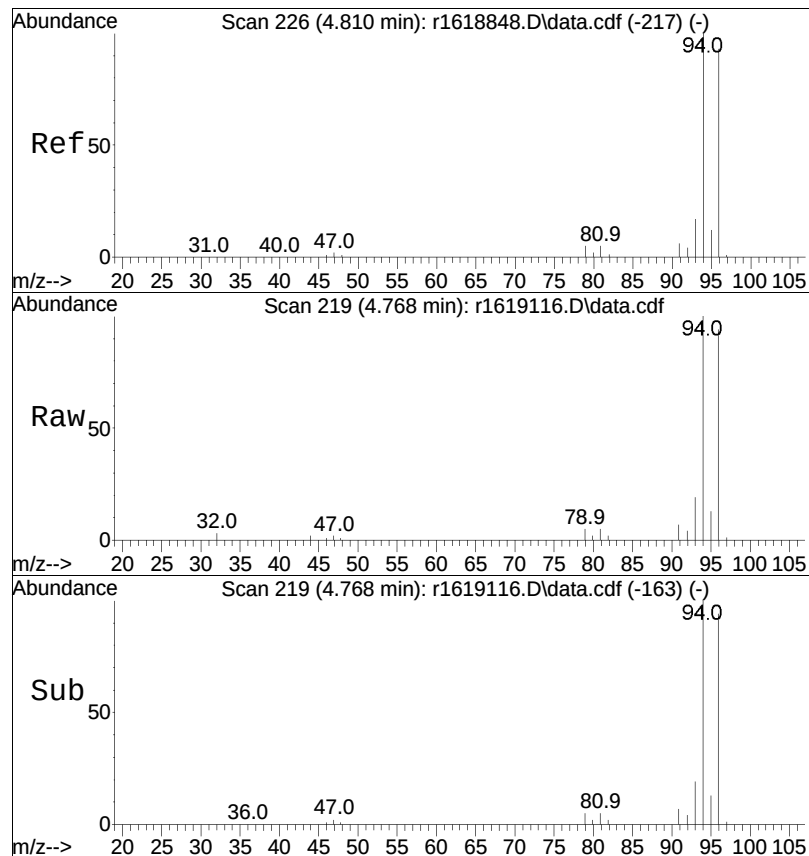




#10
 1,3-butadiene
 Concen: 9.29 ppbV
 RT: 4.462 min Scan# 168
 Delta R.T. 0.006 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

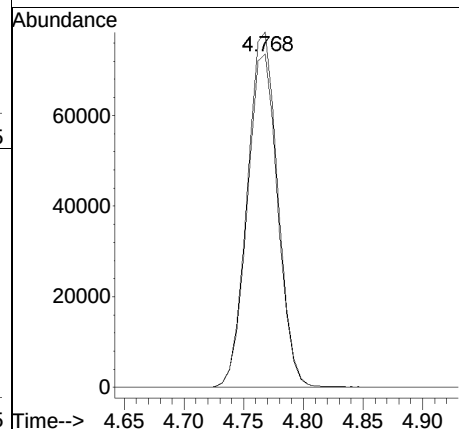
Tgt Ion:	54	Resp:	128765
Ion Ratio	Lower	Upper	
54	100		
39	89.9	70.9	106.3

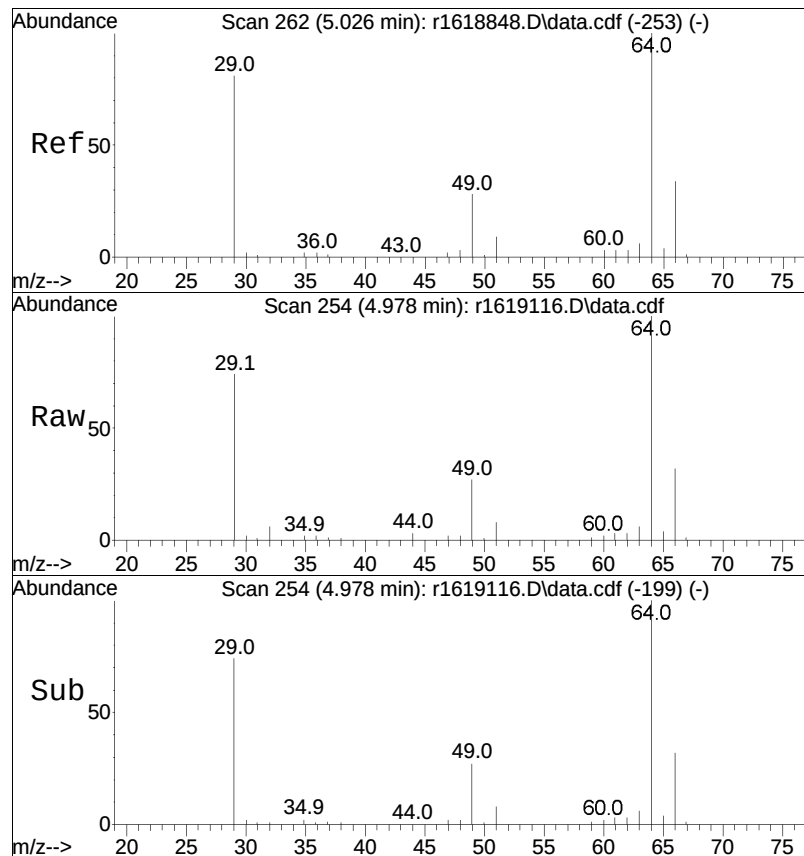




#13
bromomethane
Concen: 9.63 ppbV
RT: 4.768 min Scan# 219
Delta R.T. 0.006 min
Lab File: r1619116.D
Acq: 16 Sep 2020 12:20 PM

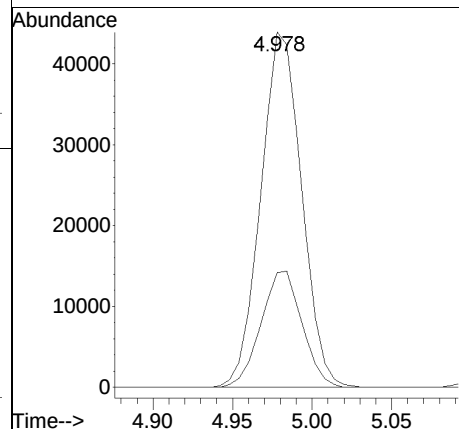
Tgt Ion:	94	96	Ratio	100	Lower	Upper
Resp:	139598					
Ion Ratio	100	93.8			74.7	112.1

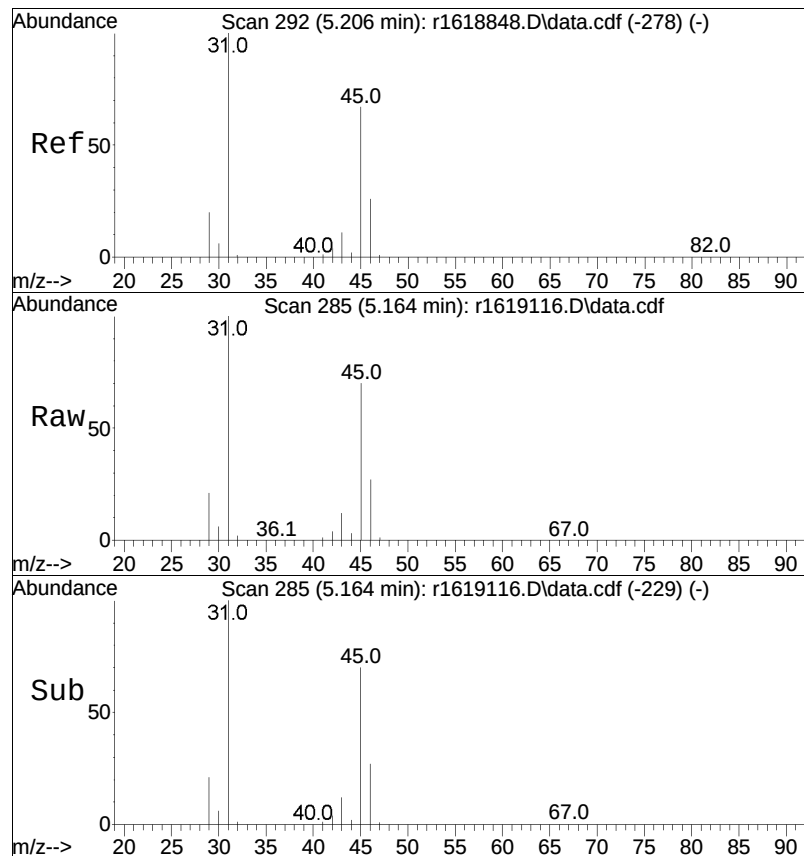




#14
 chloroethane
 Concen: 9.48 ppbV
 RT: 4.978 min Scan# 254
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

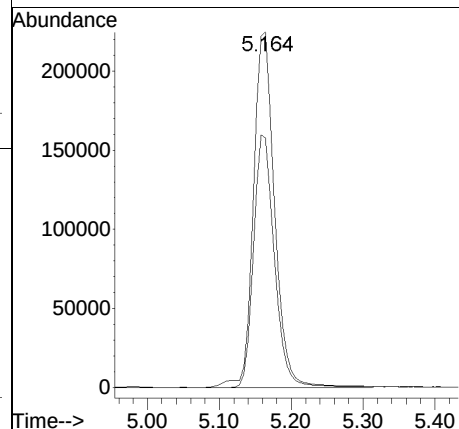
Tgt Ion:	64	Resp:	78429
Ion Ratio	Lower	Upper	
64	100		
66	32.3	26.9	40.3

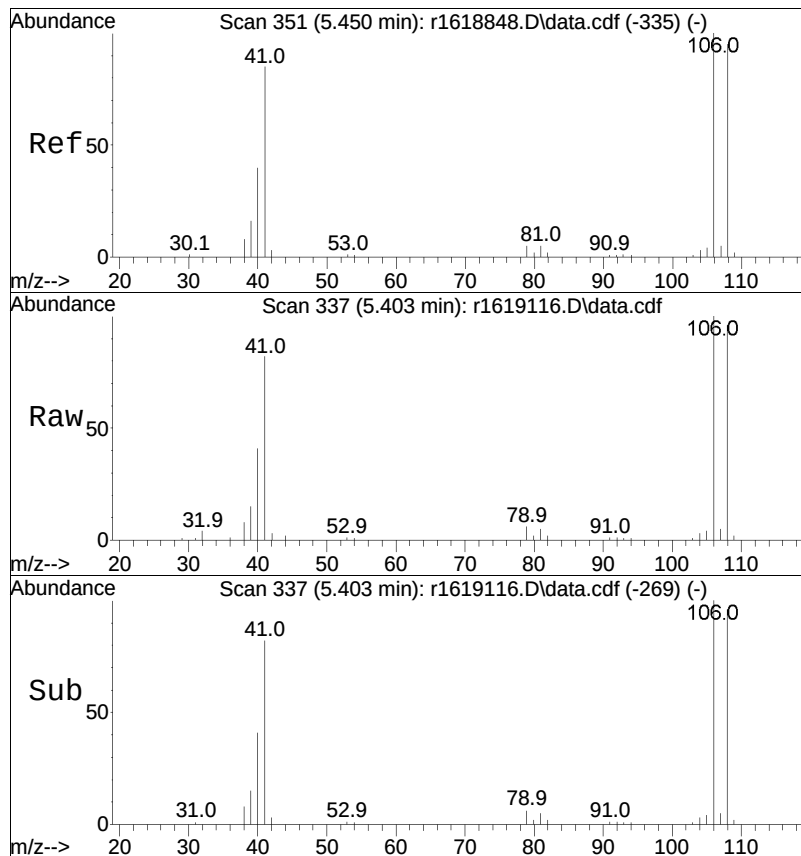




#15
 ethanol
 Concen: 43.82 ppbV
 RT: 5.164 min Scan# 285
 Delta R.T. 0.006 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

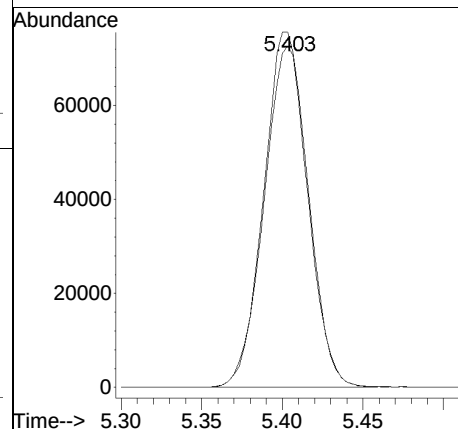
Tgt Ion:	31	45	Ratio	100	70.2	Resp:	460493	Lower	Upper

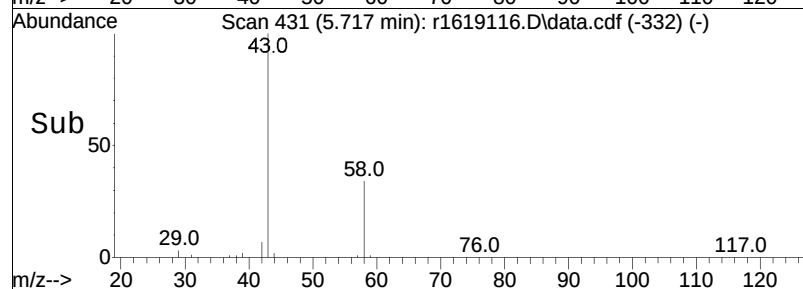
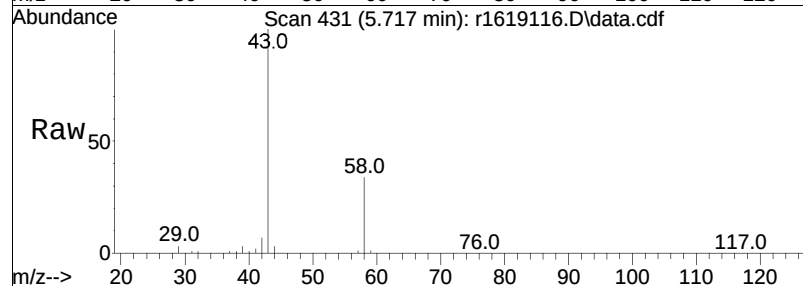
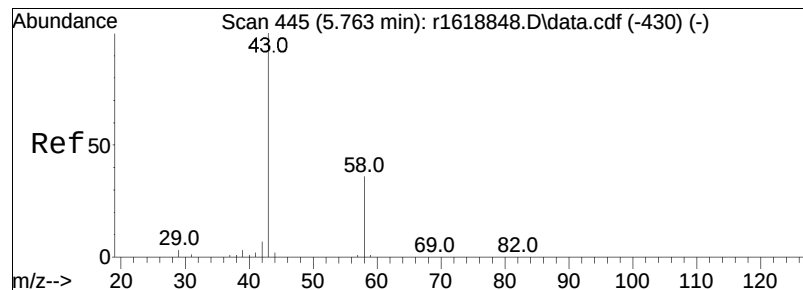




#17
 vinyl bromide
 Concen: 9.18 ppbV
 RT: 5.403 min Scan# 337
 Delta R.T. 0.003 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

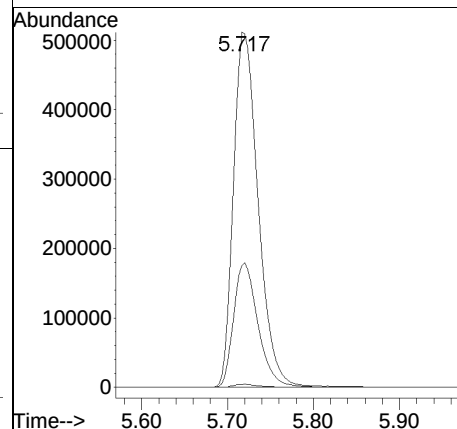
Tgt	Ion	Resp	Lower	Upper
106	100	144802		
108	96.1	75.6	113.4	

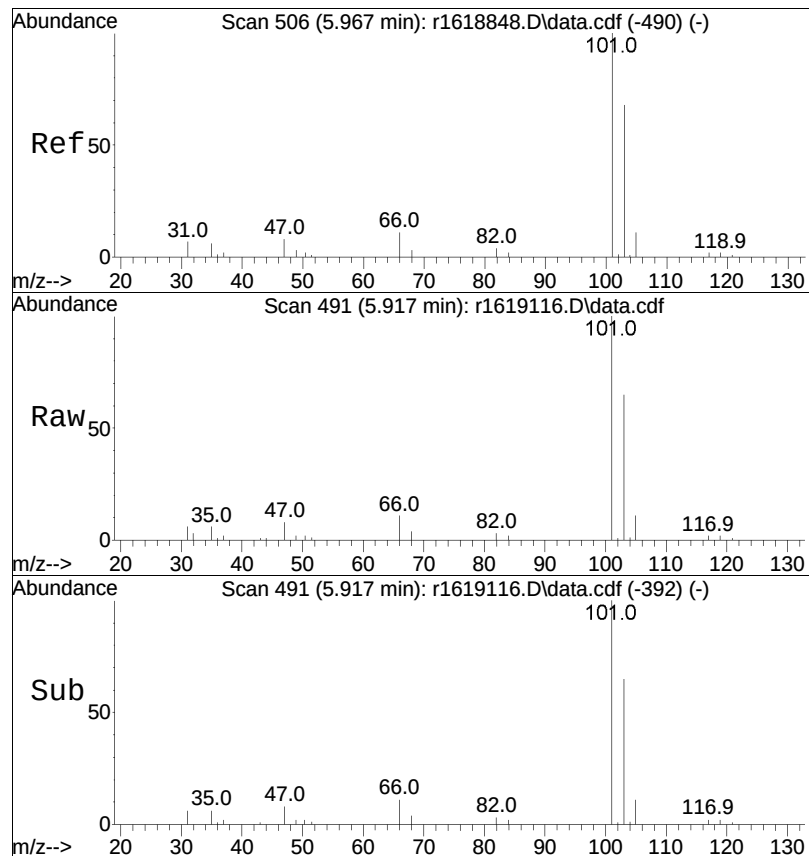




#19
acetone
Concen: 40.39 ppbV
RT: 5.717 min Scan# 431
Delta R.T. 0.000 min
Lab File: r1619116.D
Acq: 16 Sep 2020 12:20 PM

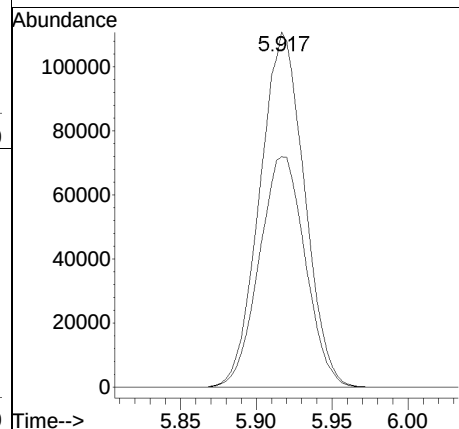
Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.3	28.9	43.3
57	0.8	0.7	1.1

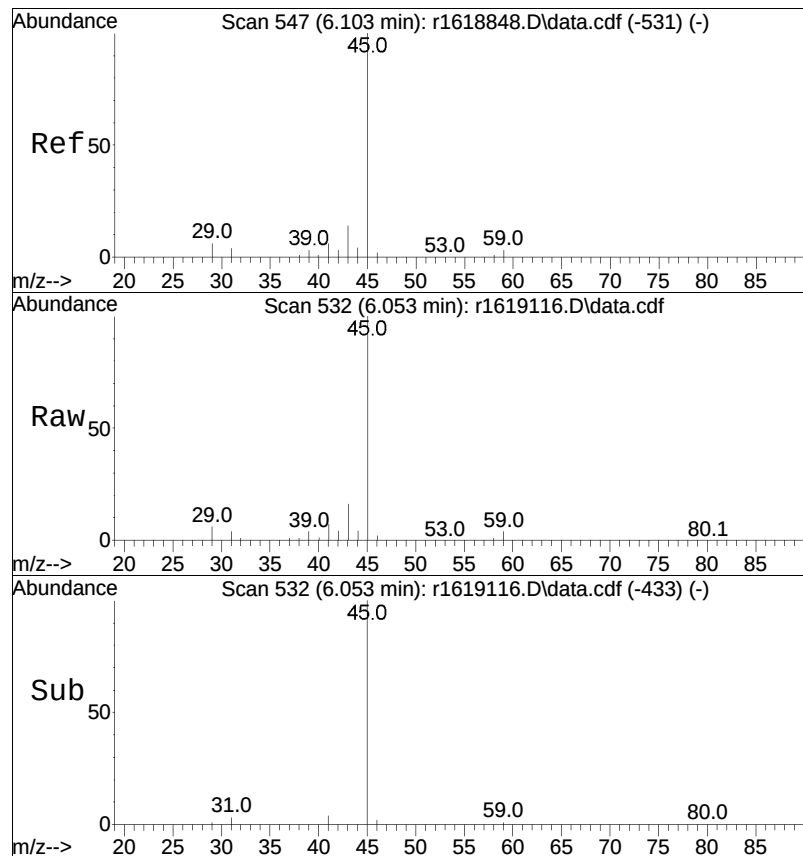




#21
trichlorofluoromethane
Concen: 10.07 ppbV
RT: 5.917 min Scan# 491
Delta R.T. 0.000 min
Lab File: r1619116.D
Acq: 16 Sep 2020 12:20 PM

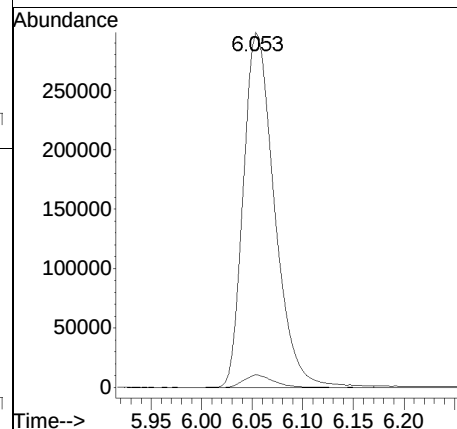
Tgt	Ion	Ratio	Lower	Upper
101	101	100		
103	64.9	54.6	54.6	82.0

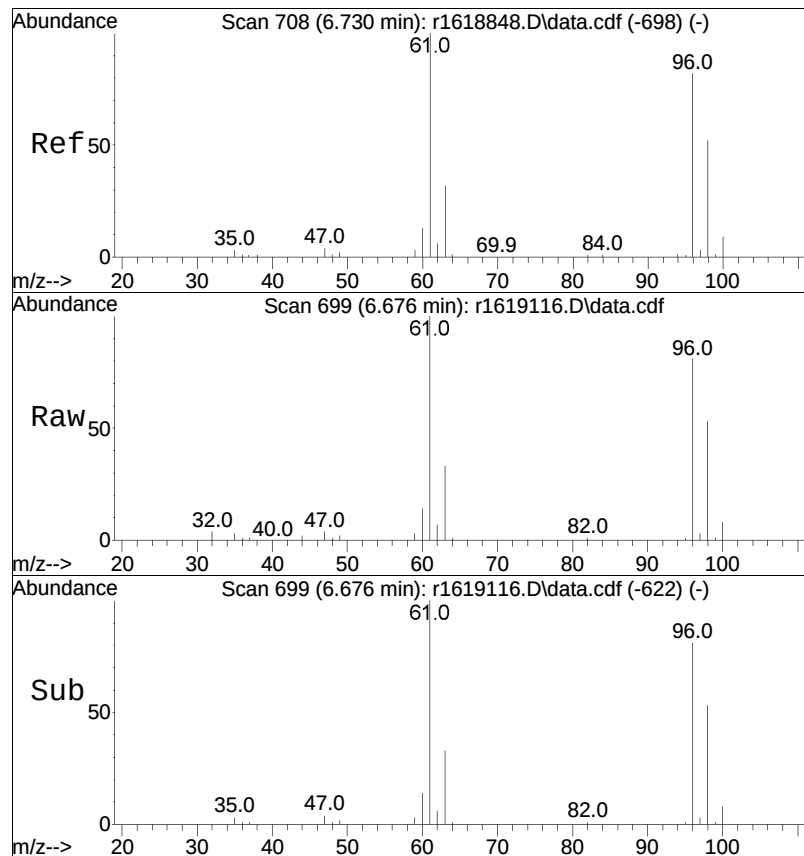




#22
 isopropyl alcohol
 Concen: 19.91 ppbV
 RT: 6.053 min Scan# 532
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

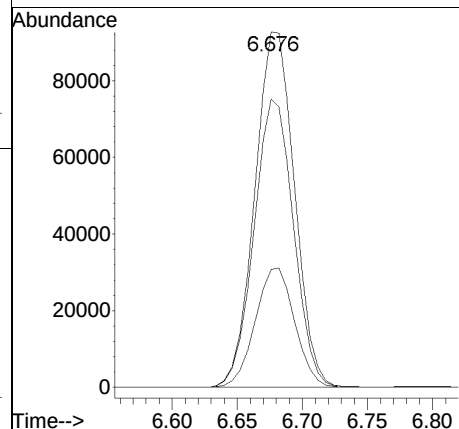
Tgt Ion:	45	59	Ratio	100	3.6	Resp:	640598	Lower	2.7	Upper	4.1
Ion	45	59	Ratio	100	3.6	Resp:	640598	Lower	2.7	Upper	4.1

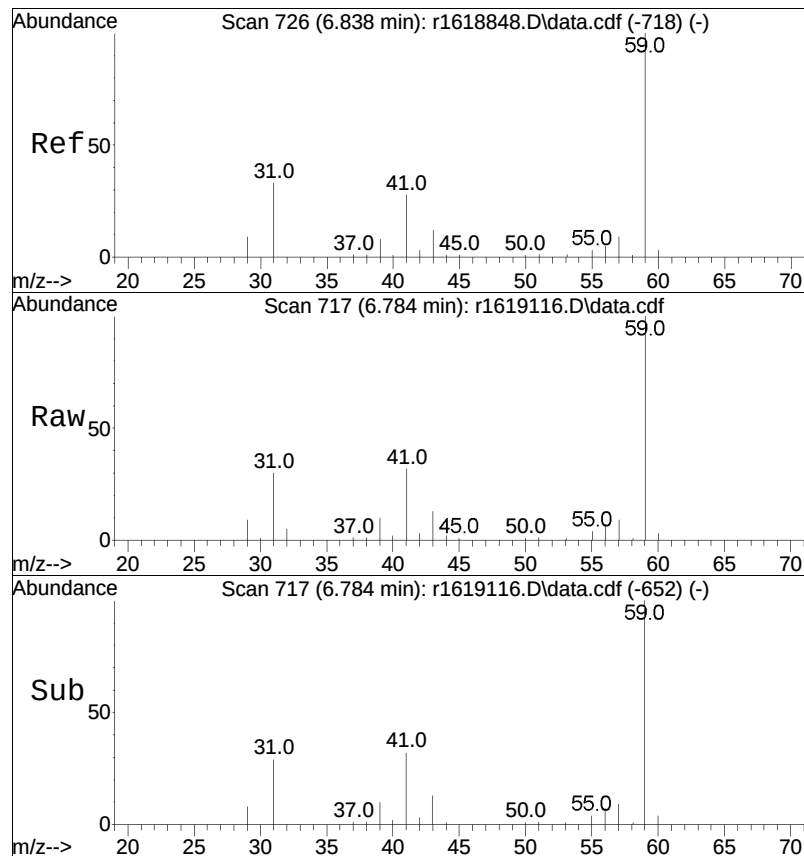




#26
 1,1-dichloroethene
 Concen: 10.15 ppbV
 RT: 6.676 min Scan# 699
 Delta R.T. -0.006 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

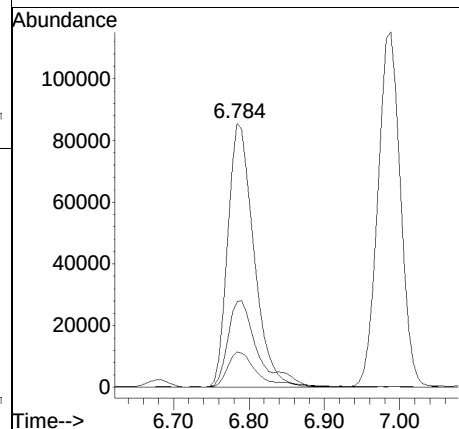
Tgt Ion:	61	Resp:	196695
Ion Ratio	Lower	Upper	
61	100		
96	81.1	65.4	98.2
63	33.2	25.8	38.8

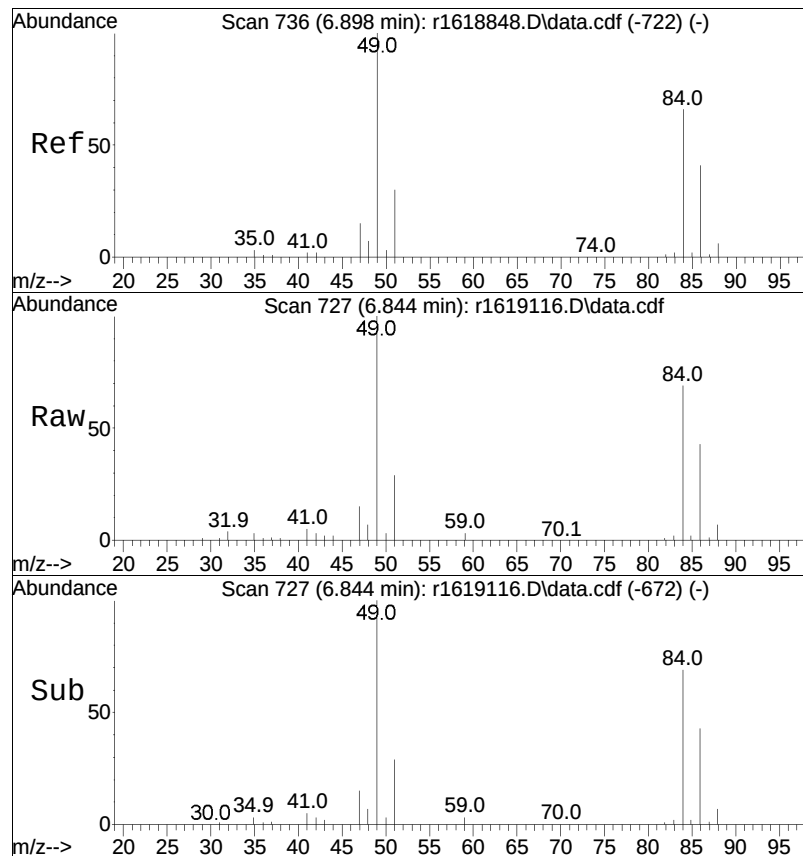




#27
 tertiary butyl alcohol
 Concen: 8.86 ppbV
 RT: 6.784 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

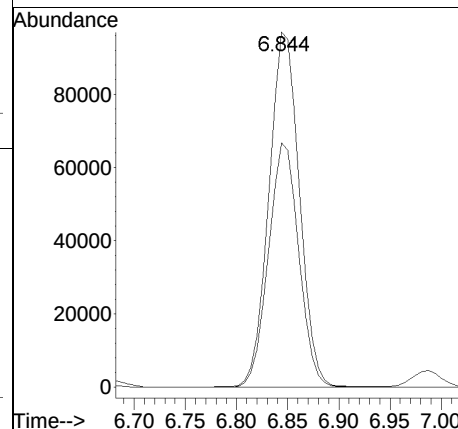
Tgt Ion	Ratio	Lower	Upper
59	100		
41	32.3	22.4	33.6
43	13.4	10.2	15.2

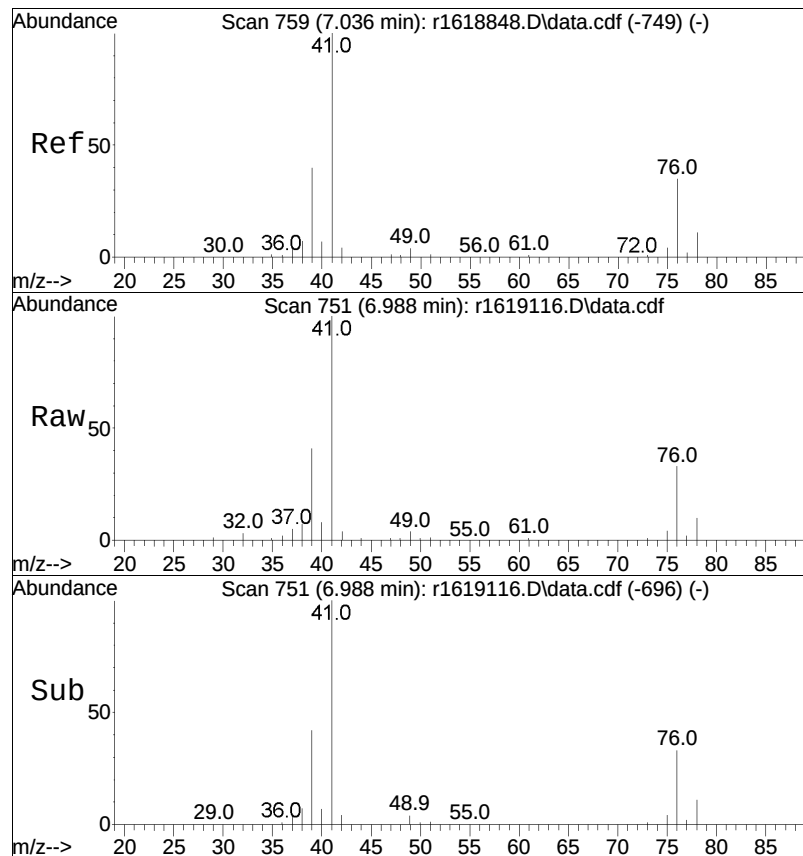




#28
 methylene chloride
 Concen: 9.84 ppbV
 RT: 6.844 min Scan# 727
 Delta R.T. -0.006 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

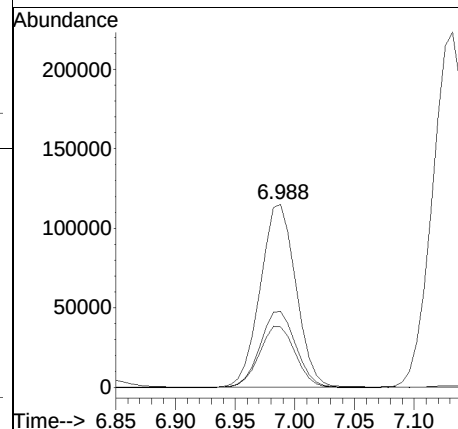
Tgt	Ion	Ratio	Lower	Upper
49	100			
84	68.8	53.2	79.8	

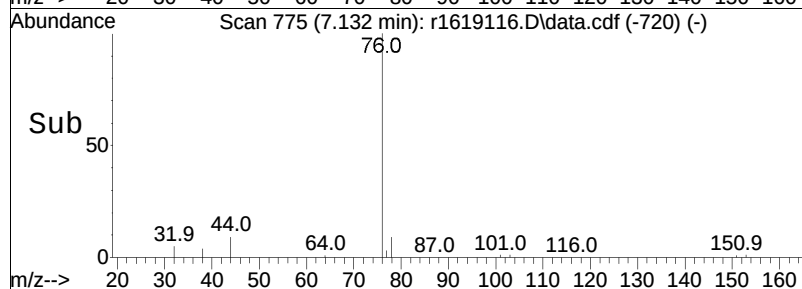
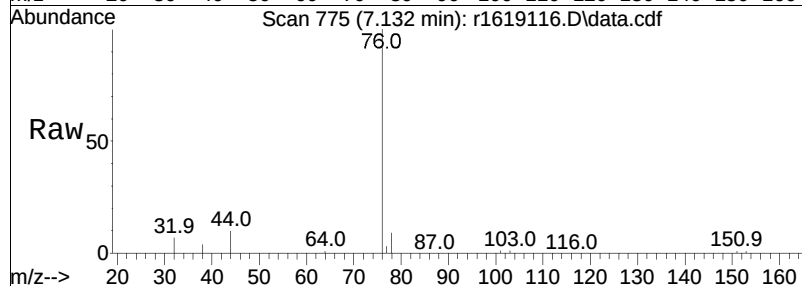
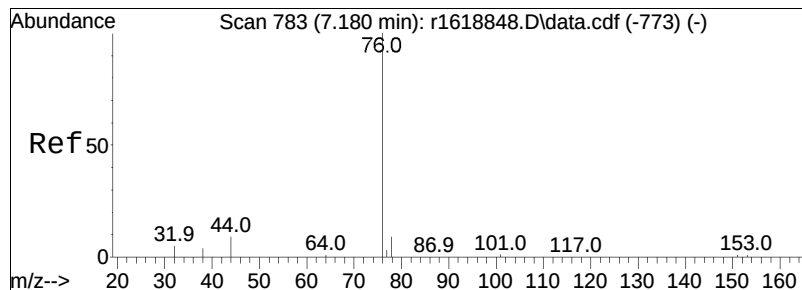




#29
 3-chloropropene
 Concen: 10.28 ppbV
 RT: 6.988 min Scan# 751
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

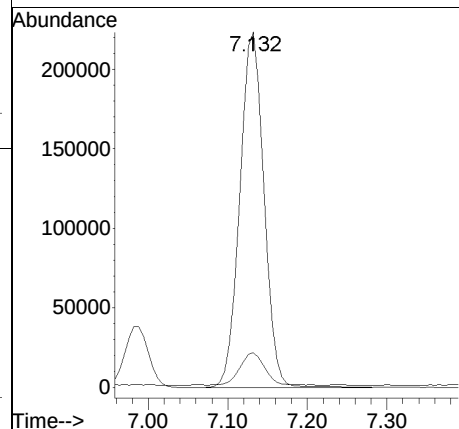
Tgt Ion:	41	Resp:	238334
Ion Ratio	Lower	Upper	
41	100		
39	41.5	32.4	48.6
76	33.1	28.2	42.4

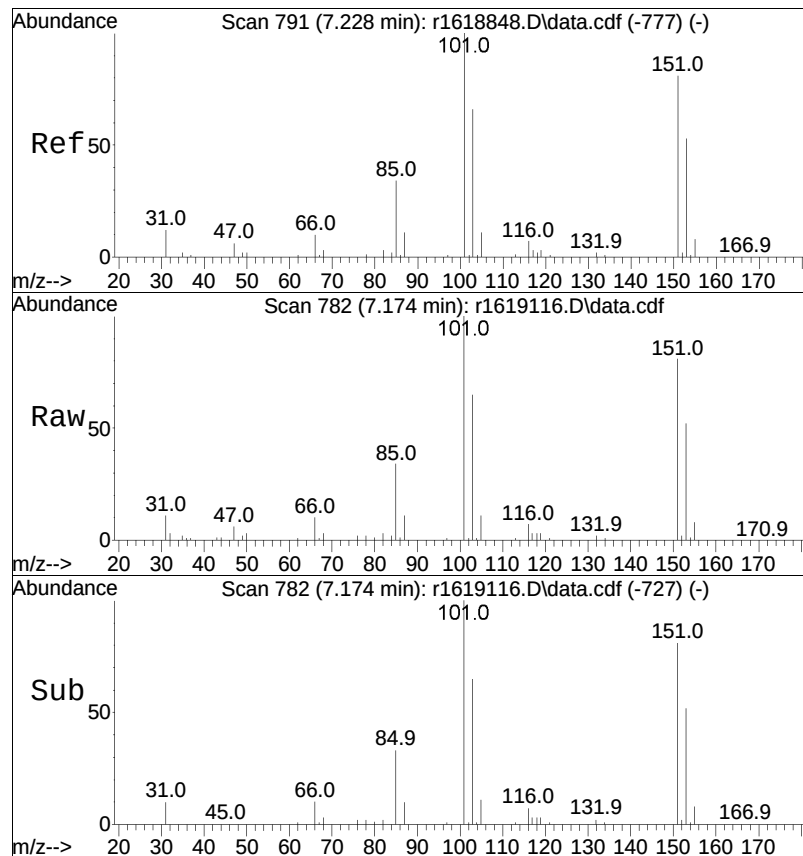




#30
carbon disulfide
Concen: 8.78 ppbV
RT: 7.132 min Scan# 775
Delta R.T. 0.000 min
Lab File: r1619116.D
Acq: 16 Sep 2020 12:20 PM

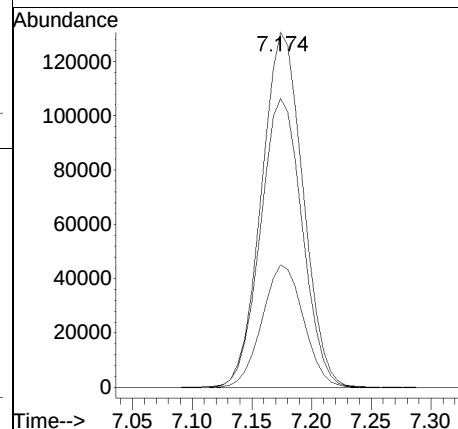
Tgt Ion	Ratio	Lower	Upper
76	100		
44	9.8	7.7	11.5

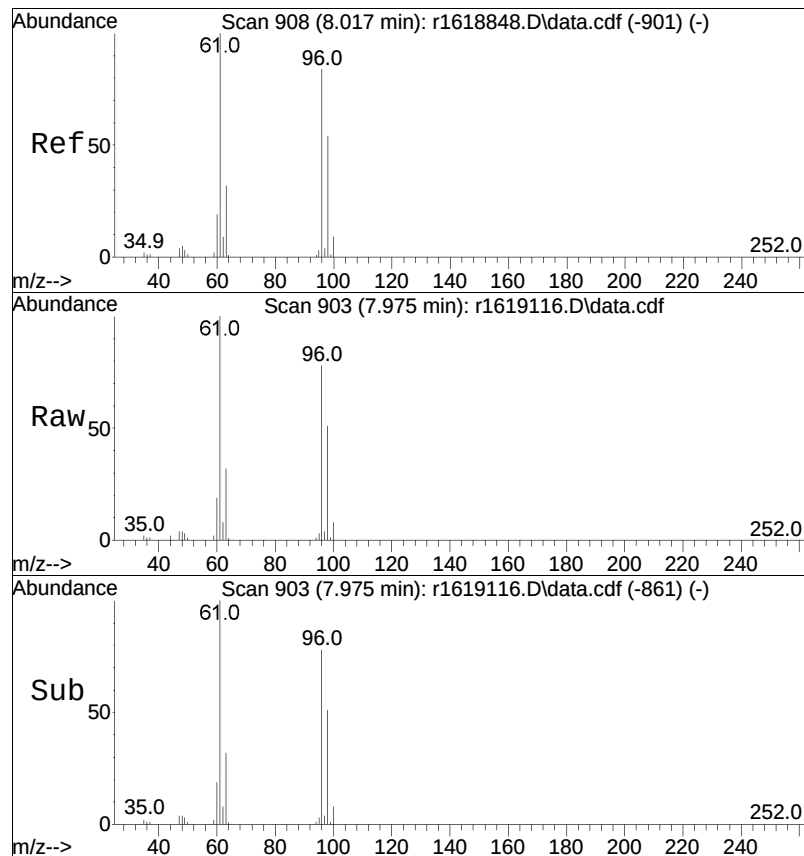




#31
 Freon 113
 Concen: 10.20 ppbV
 RT: 7.174 min Scan# 782
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

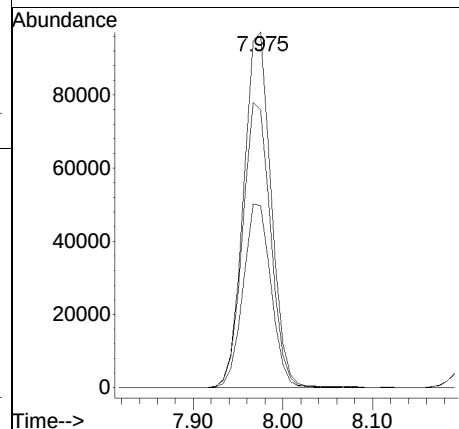
Tgt	Ion:101	Resp:	316149
Ion	Ratio	Lower	Upper
101	100		
85	34.5	27.5	41.3
151	81.3	65.1	97.7

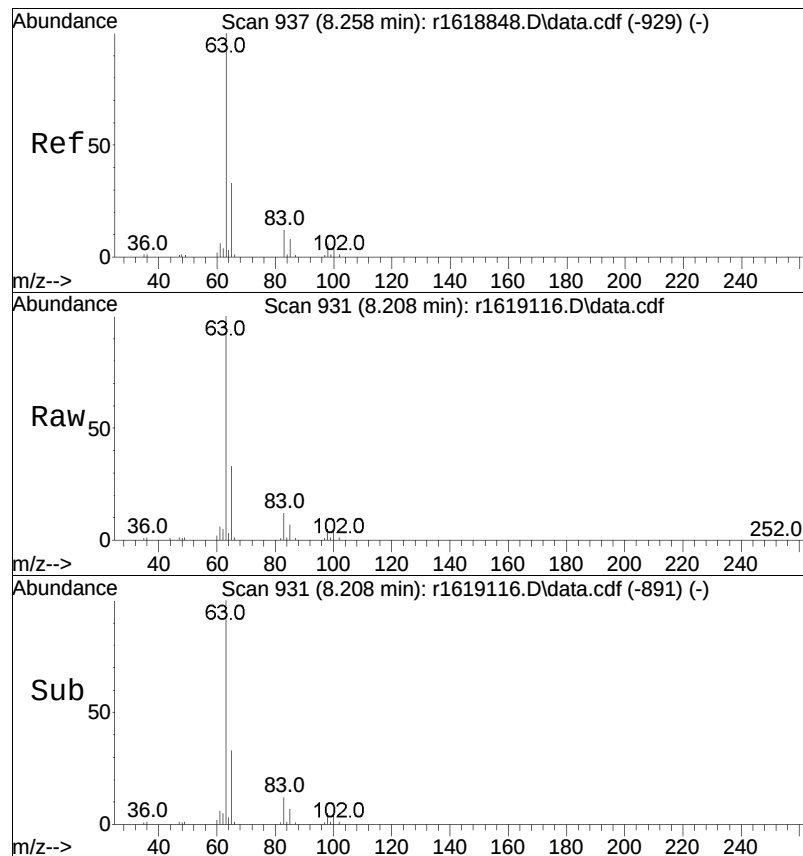




#32
 trans-1,2-dichloroethene
 Concen: 9.40 ppbV
 RT: 7.975 min Scan# 903
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

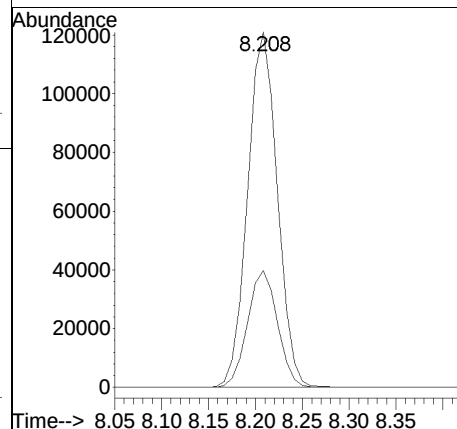
Tgt Ion:	61	Resp:	207298
Ion Ratio	Lower	Upper	
61	100		
96	78.1	67.0	100.4
98	51.2	43.0	64.4

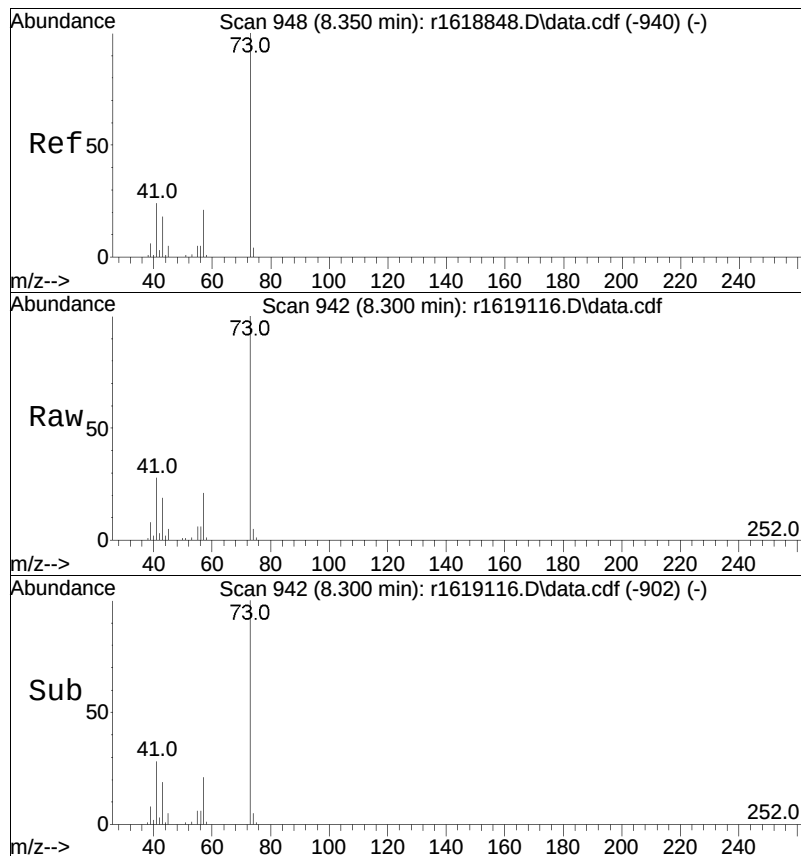




#33
 1,1-dichloroethane
 Concen: 9.81 ppbV
 RT: 8.208 min Scan# 931
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

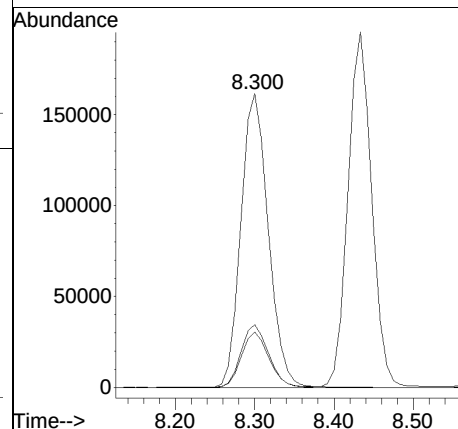
Tgt Ion	Ratio	Lower	Upper
63	100		
65	32.9	26.2	39.4

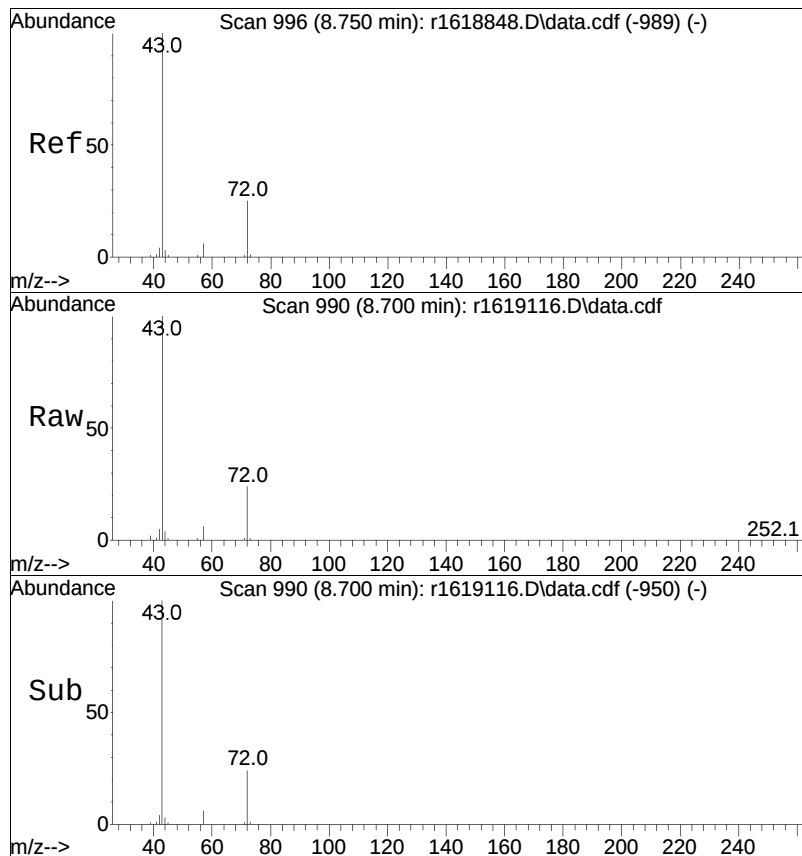




#34
 MTBE
 Concen: 8.96 ppbV
 RT: 8.300 min Scan# 942
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

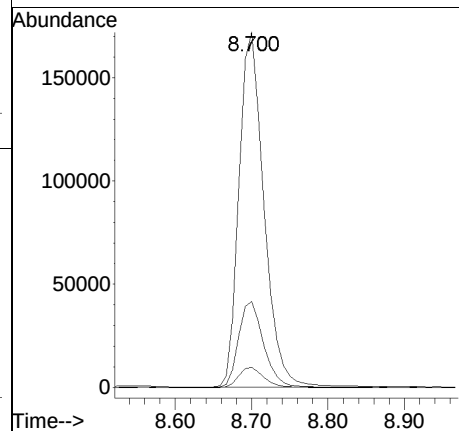
Tgt Ion: 73	Resp: 387501
Ion Ratio	Lower Upper
73 100	
57 21.4	16.6 24.8
43 18.9	14.2 21.4

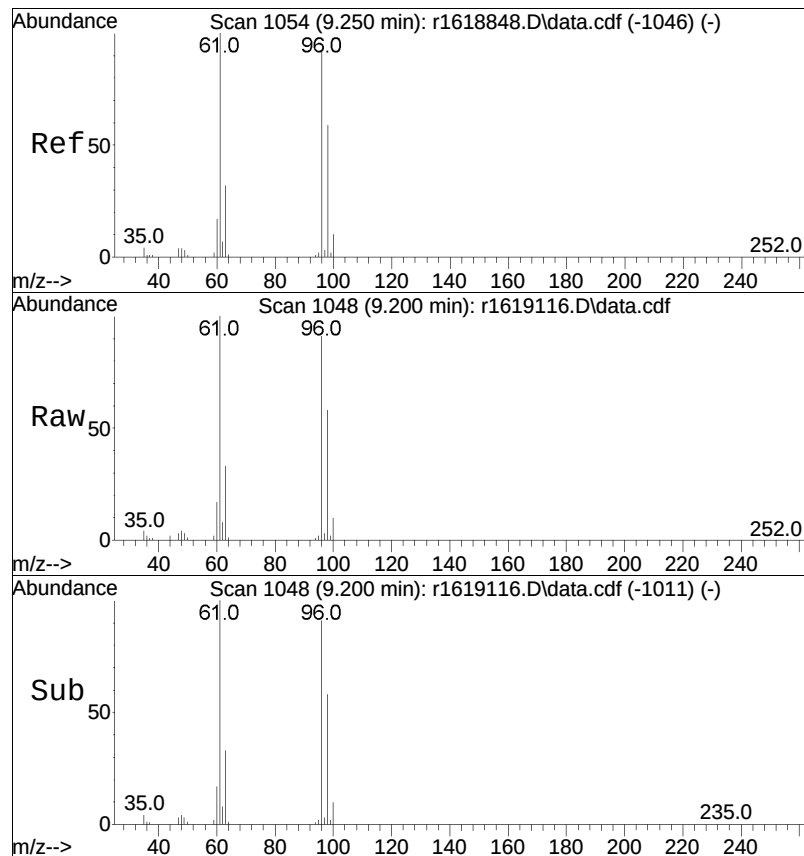




#36
 2-butanone
 Concen: 9.74 ppbV
 RT: 8.700 min Scan# 990
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

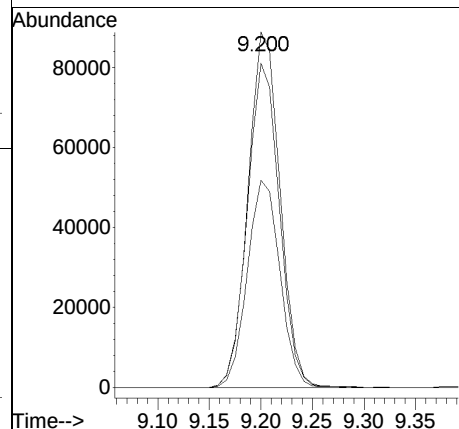
Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.2	19.8	29.6
57	5.6	4.6	6.8

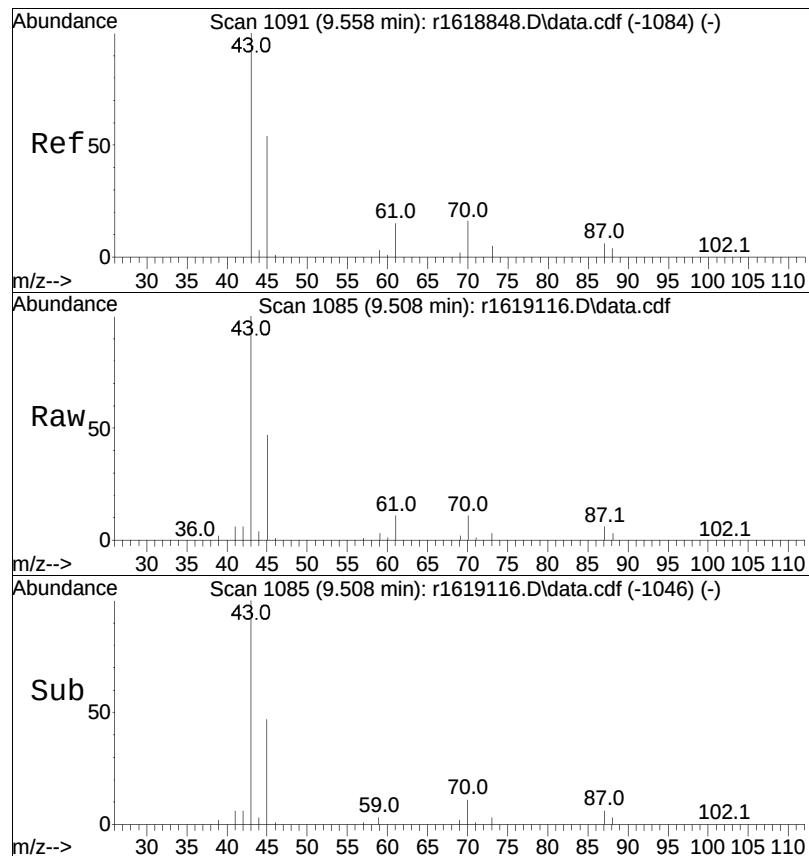




#37
 cis-1,2-dichloroethene
 Concen: 10.18 ppbV
 RT: 9.200 min Scan# 1048
 Delta R.T. -0.008 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

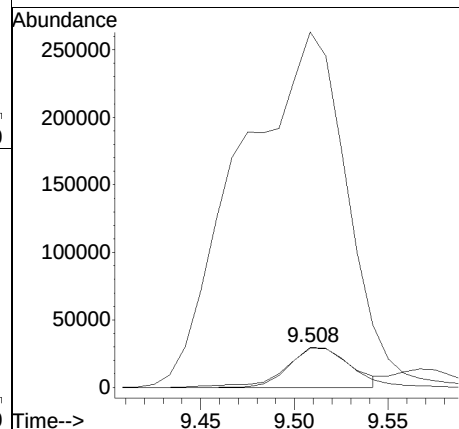
Tgt Ion:	61	Resp:	192250
Ion Ratio	Lower	Upper	
61	100		
96	91.2	74.1	111.1
98	58.3	47.4	71.0

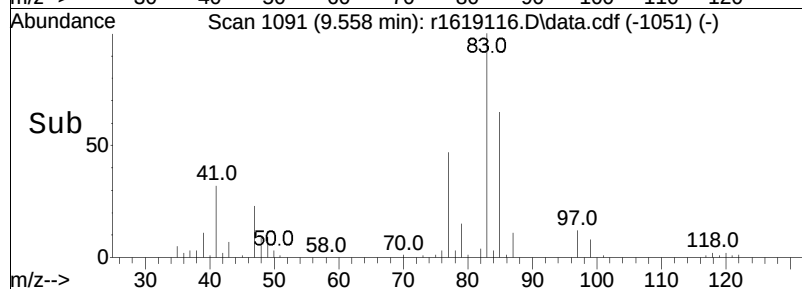
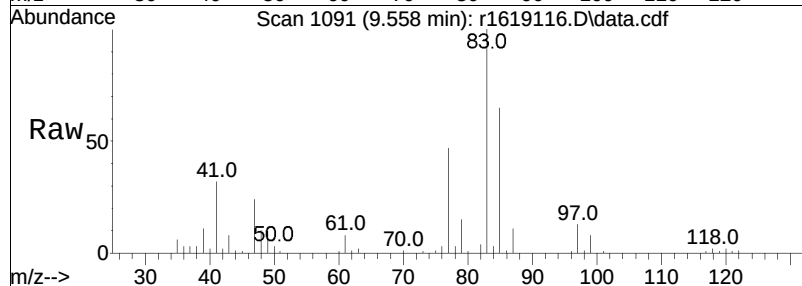
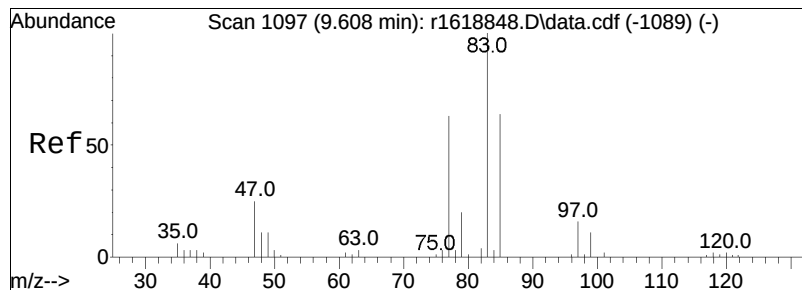




#38
 Ethyl Acetate
 Concen: 9.77 ppbV
 RT: 9.508 min Scan# 1085
 Delta R.T. -0.008 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

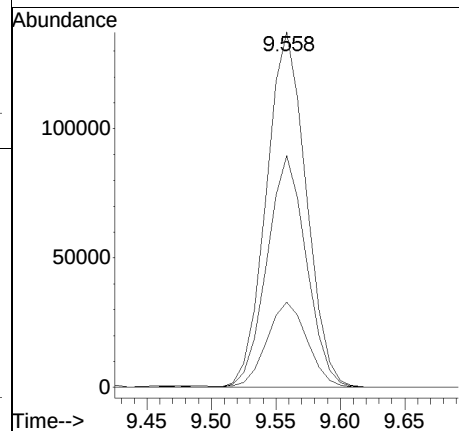
Tgt Ion:	61	Resp:	66601
Ion Ratio	Lower	Upper	
61	100		
70	97.9	85.0	127.4
43	887.7	747.0	1120.6

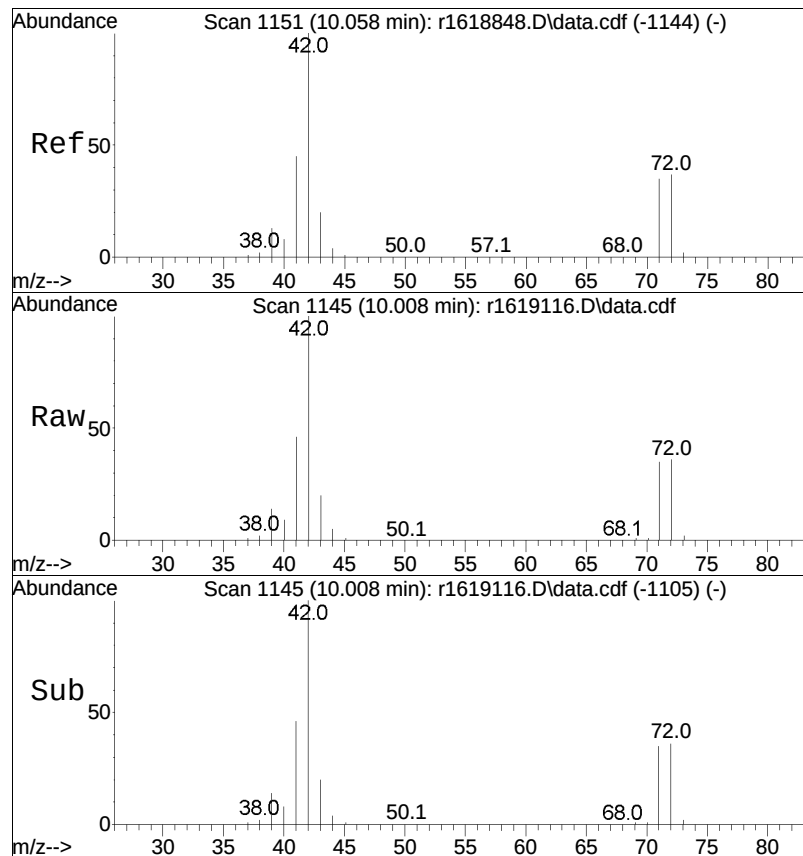




#39
chloroform
Concen: 10.44 ppbV
RT: 9.558 min Scan# 1091
Delta R.T. 0.000 min
Lab File: r1619116.D
Acq: 16 Sep 2020 12:20 PM

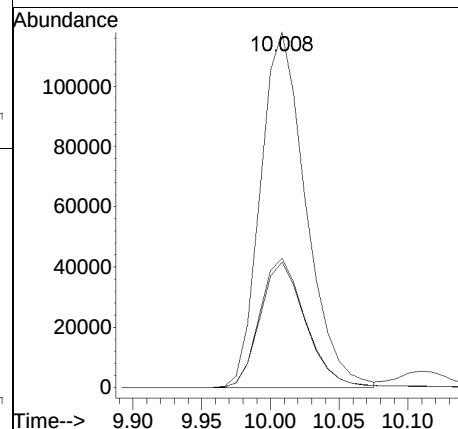
Tgt	Ion	Ratio	Lower	Upper
83	100			
85	65.2	51.5	77.3	
47	24.0	20.1	30.1	

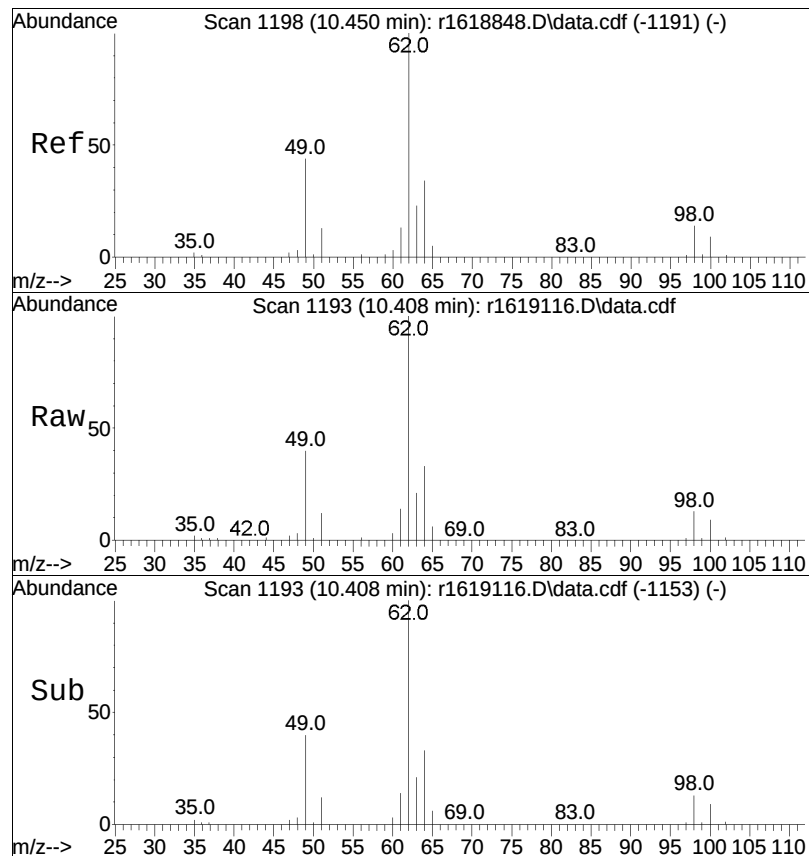




#40
 Tetrahydrofuran
 Concen: 9.54 ppbV
 RT: 10.008 min Scan# 1145
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

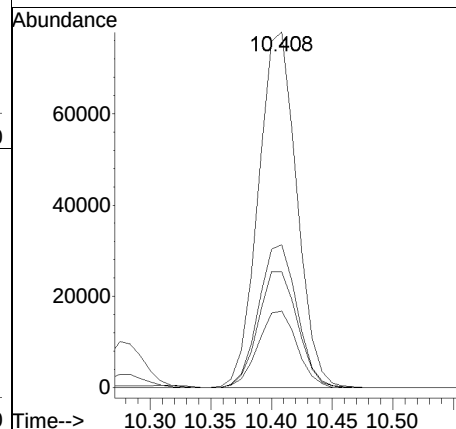
Tgt Ion:	42	Resp:	270771
Ion Ratio	Lower	Upper	
42	100		
71	35.3	28.2	42.2
72	36.4	29.9	44.9

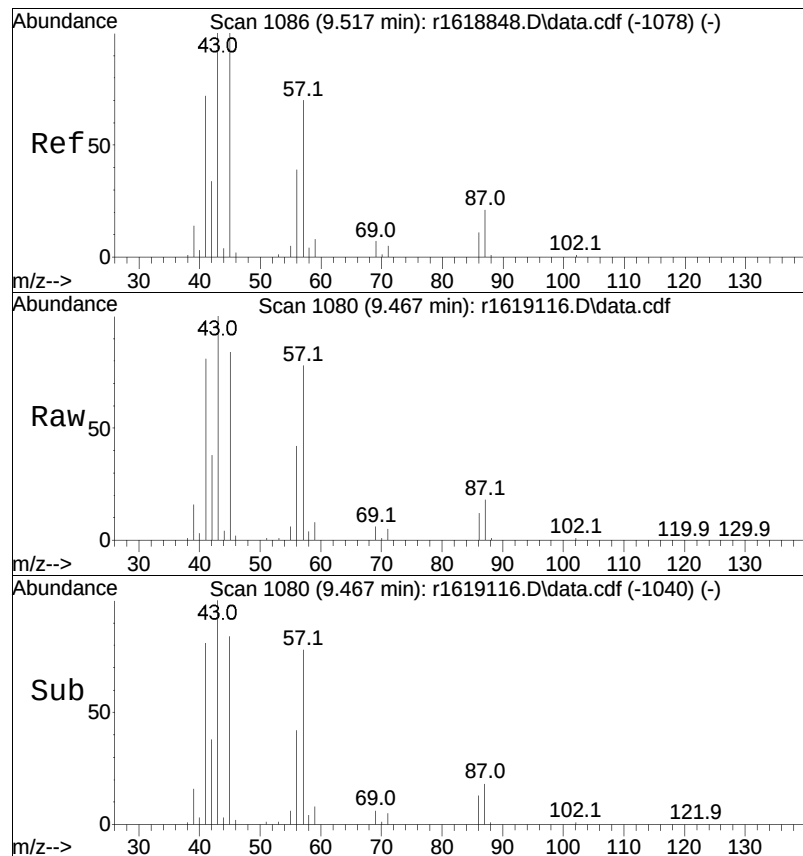




#42
 1,2-dichloroethane
 Concen: 10.50 ppbV
 RT: 10.408 min Scan# 1193
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

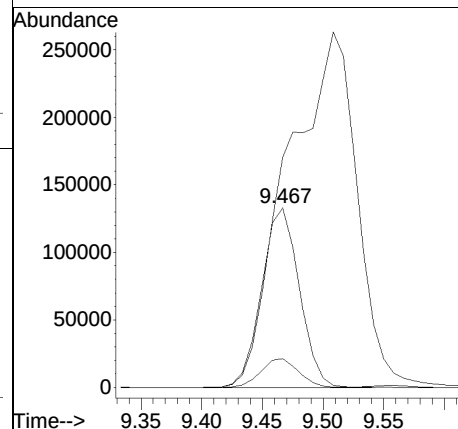
Tgt Ion:	62	Resp:	171473
Ion Ratio	Lower	Upper	
62	100		
64	32.5	27.5	41.3
49	40.2	35.4	53.2
63	21.5	18.2	27.2

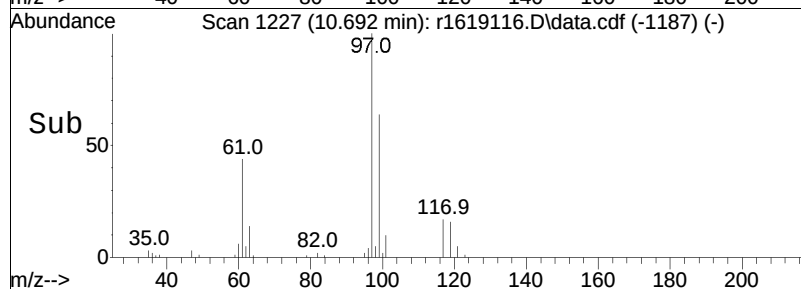
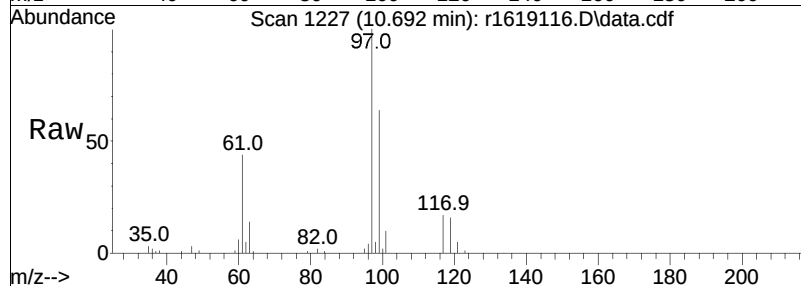
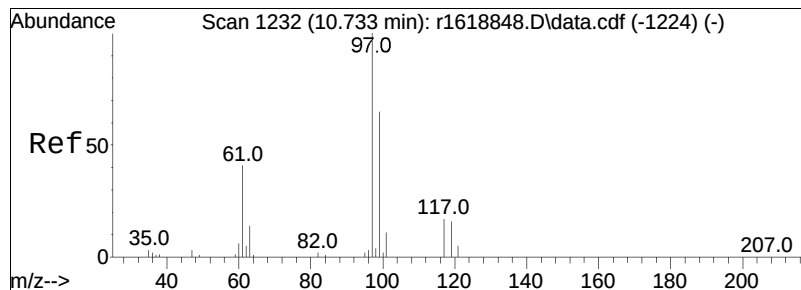




#44
hexane
Concen: 9.70 ppbV
RT: 9.467 min Scan# 1080
Delta R.T. 0.000 min
Lab File: r1619116.D
Acq: 16 Sep 2020 12:20 PM

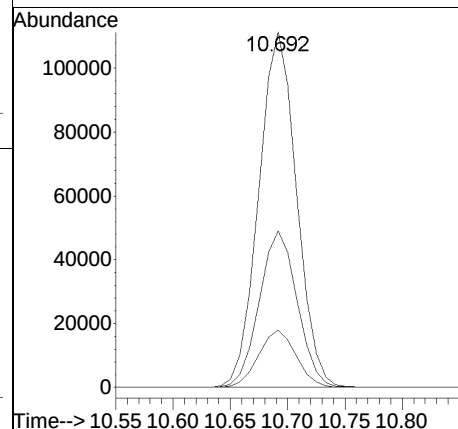
Tgt	Ion	Ratio	Lower	Upper
57	100			
43	128.1	114.4	171.6	
86	16.0	12.6	18.8	

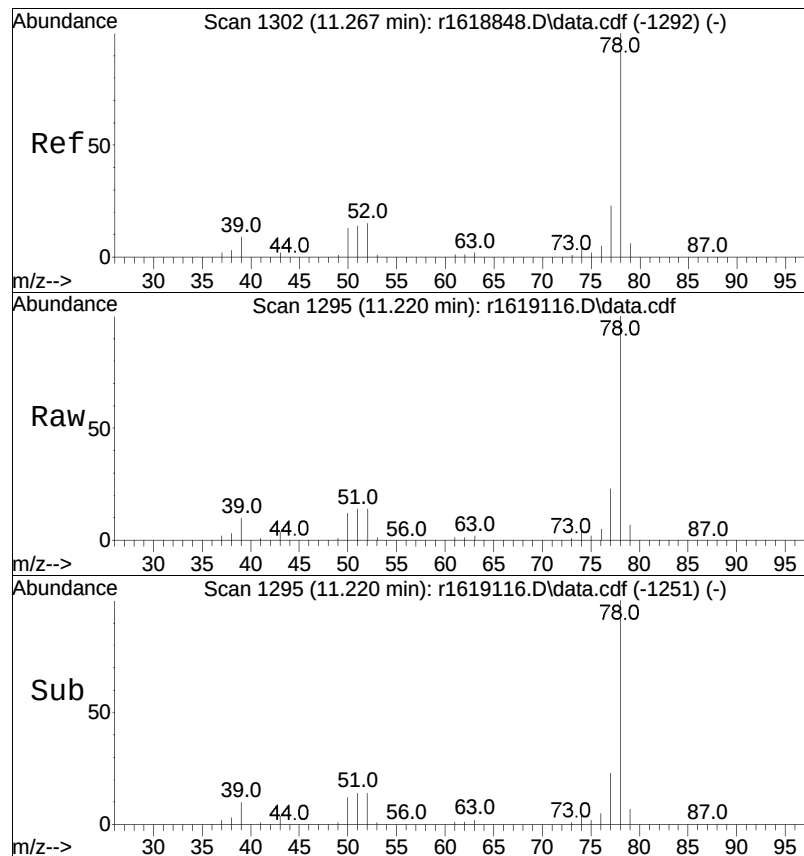




#48
 1,1,1-trichloroethane
 Concen: 9.87 ppbV
 RT: 10.692 min Scan# 1227
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

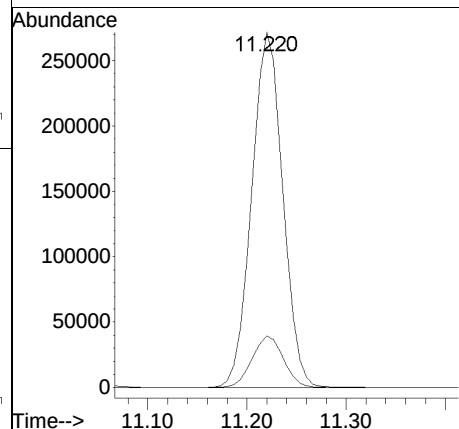
Tgt Ion	Ratio	Resp	Lower	Upper
97	100	255414		
61	44.0		32.5	48.7
119	16.2		12.6	19.0

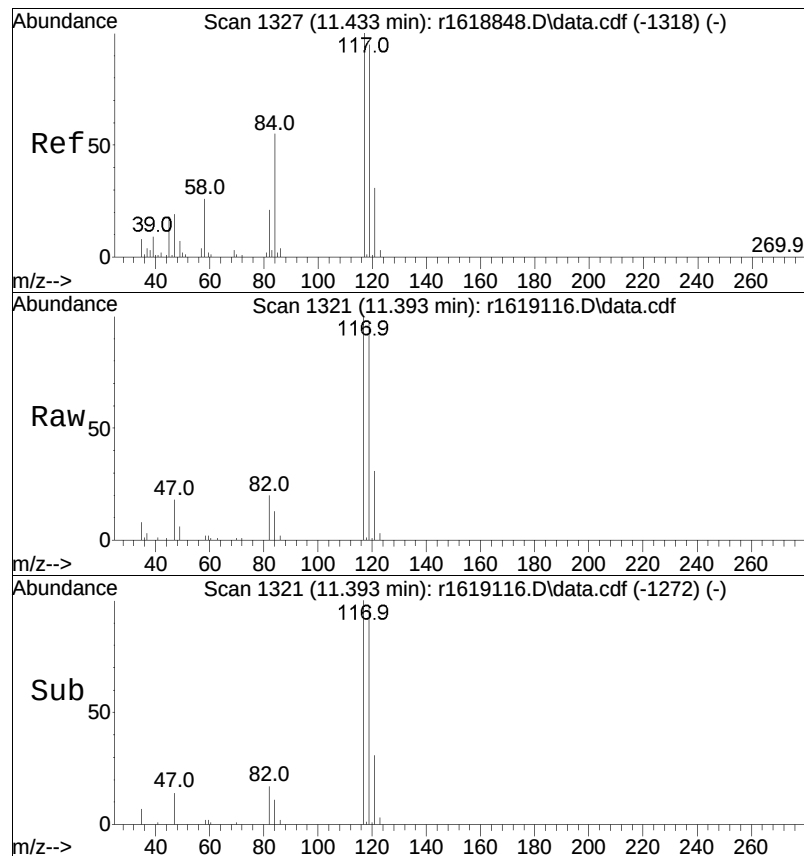




#50
benzene
Concen: 9.23 ppbV
RT: 11.220 min Scan# 1295
Delta R.T. 0.000 min
Lab File: r1619116.D
Acq: 16 Sep 2020 12:20 PM

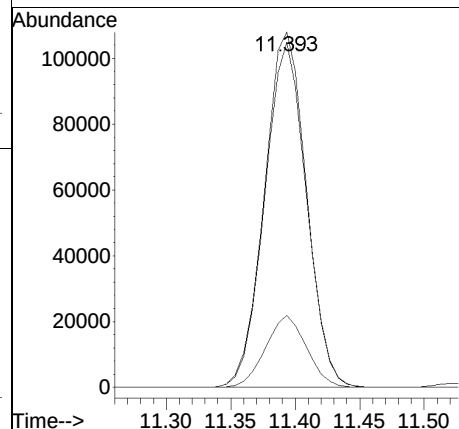
Tgt Ion	Ratio	Lower	Upper
78	100		
52	14.5	11.8	17.6

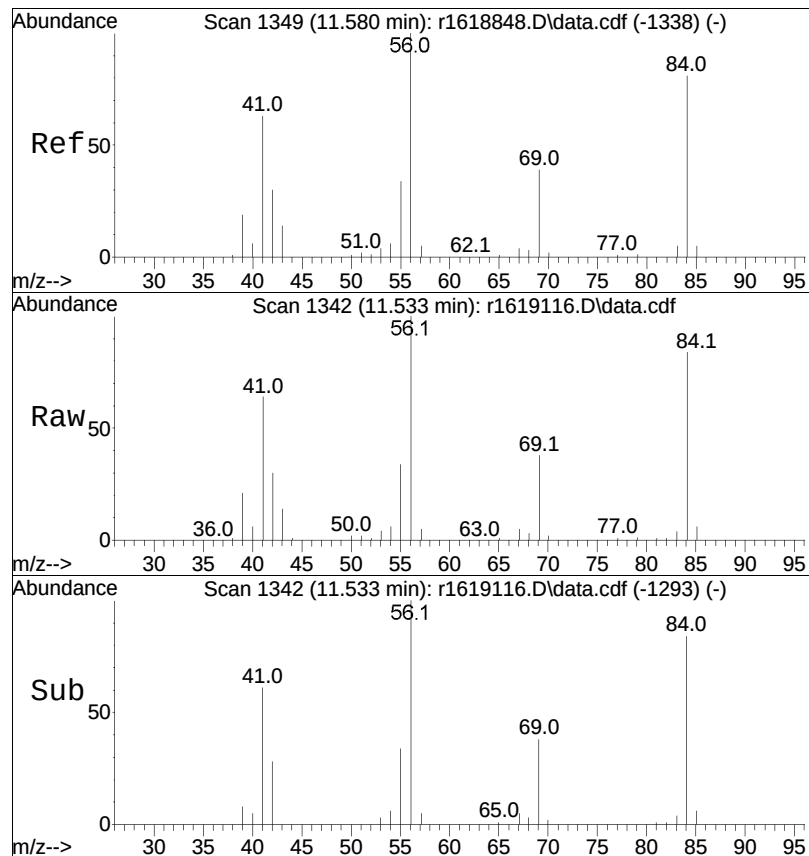




#52
 carbon tetrachloride
 Concen: 10.17 ppbV
 RT: 11.393 min Scan# 1321
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

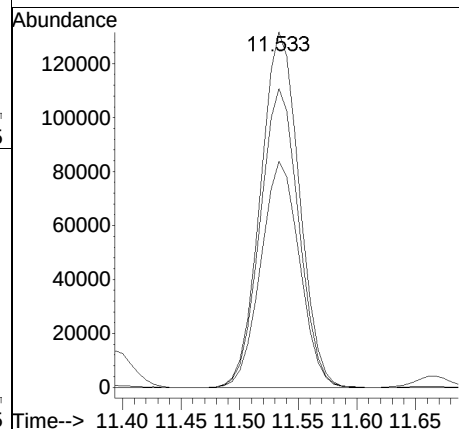
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	245344		
119	97.1		75.8	113.8
82	20.3		16.5	24.7

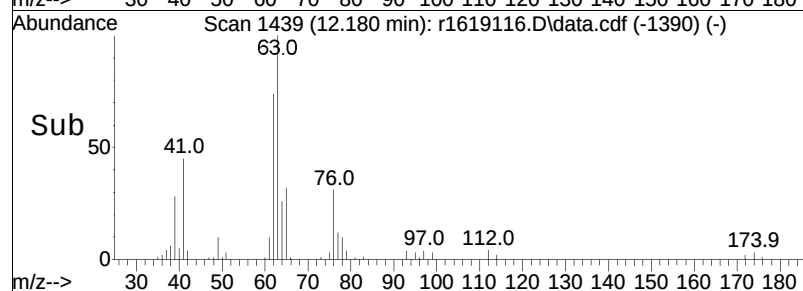
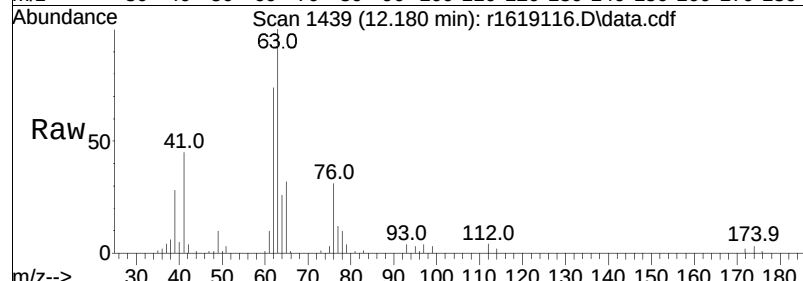
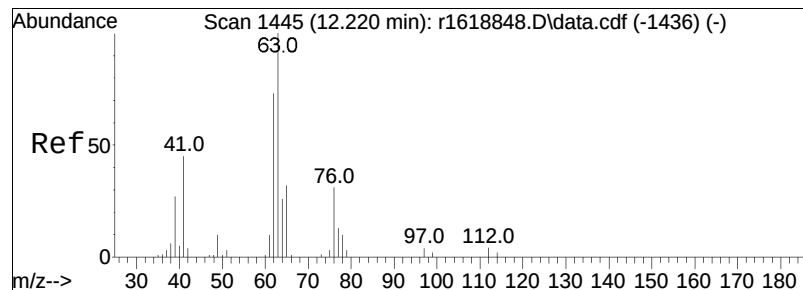




#53
cyclohexane
Concen: 9.48 ppbV
RT: 11.533 min Scan# 1342
Delta R.T. 0.000 min
Lab File: r1619116.D
Acq: 16 Sep 2020 12:20 PM

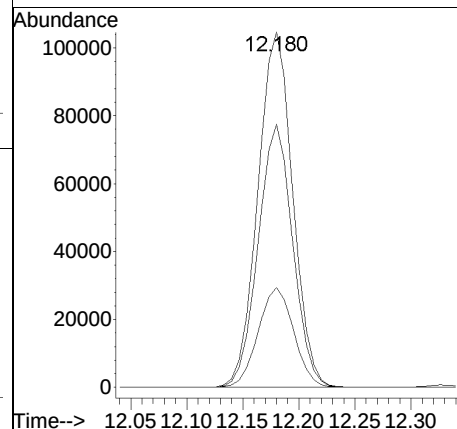
Tgt	Ion: 56	Resp:	303746
Ion	Ratio	Lower	Upper
56	100		
84	84.1	64.6	96.8
41	63.6	50.5	75.7

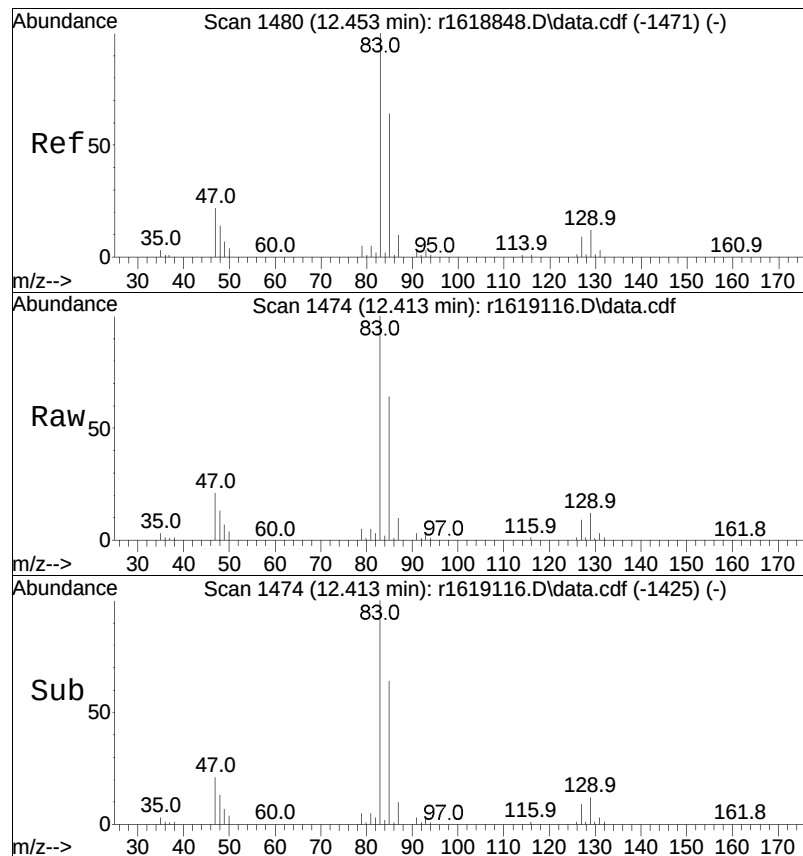




#56
 1,2-dichloropropane
 Concen: 9.95 ppbV
 RT: 12.180 min Scan# 1439
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

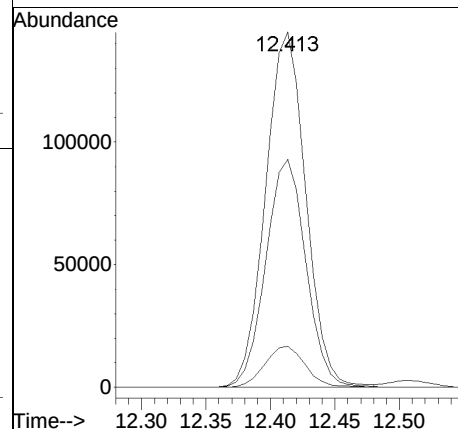
Tgt Ion	Ratio	Lower	Upper
63	100		
62	74.0	58.1	87.1
39	28.1	21.3	31.9

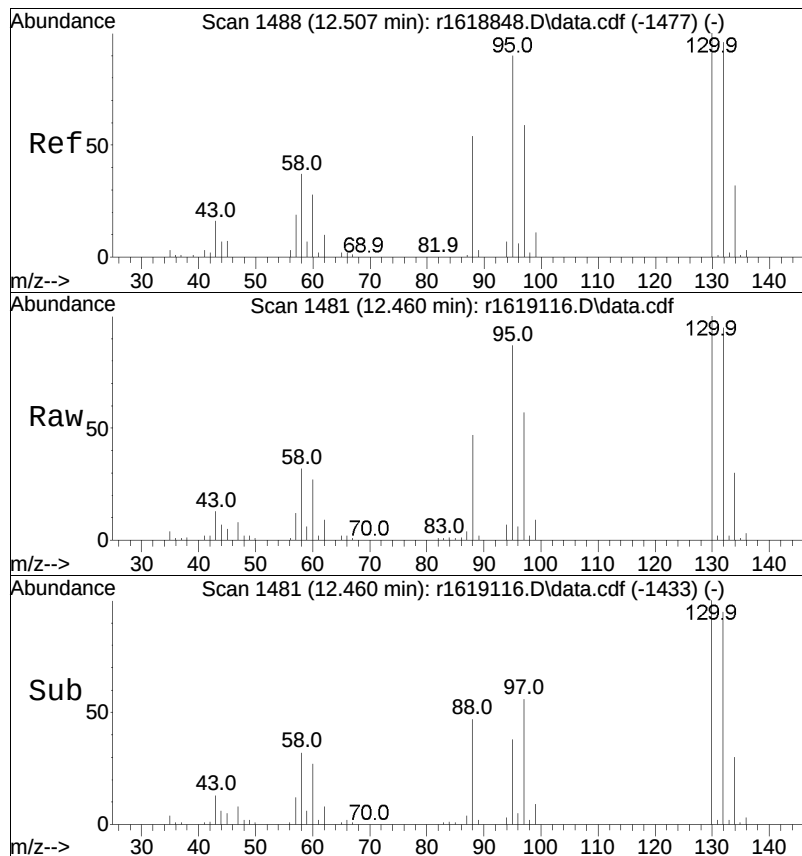




#57
bromodichloromethane
Concen: 9.98 ppbV
RT: 12.413 min Scan# 1474
Delta R.T. 0.000 min
Lab File: r1619116.D
Acq: 16 Sep 2020 12:20 PM

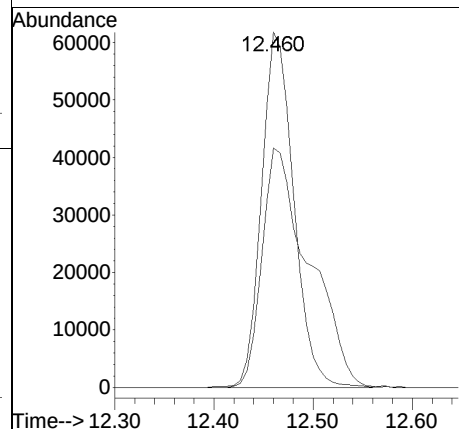
Tgt Ion:	83	Resp:	314893
Ion Ratio	Lower	Upper	
83	100		
85	64.1	51.4	77.0
129	11.6	9.3	13.9

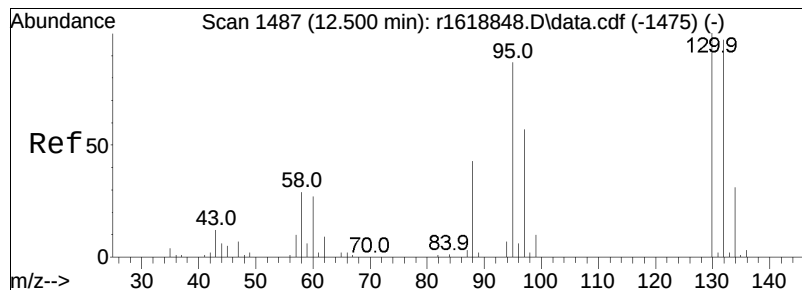




#58
 1,4-dioxane
 Concen: 9.66 ppbV
 RT: 12.460 min Scan# 1481
 Delta R.T. -0.007 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

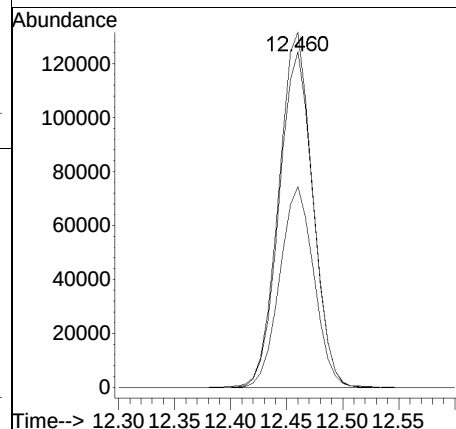
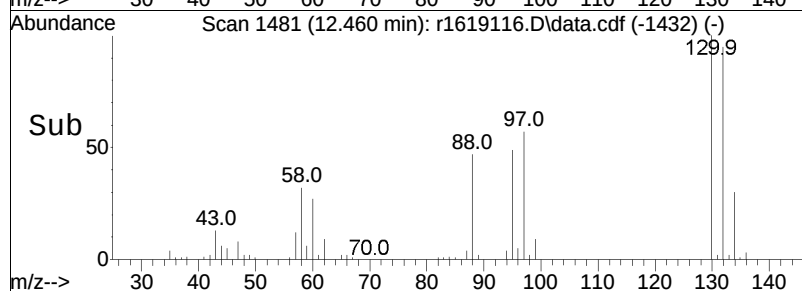
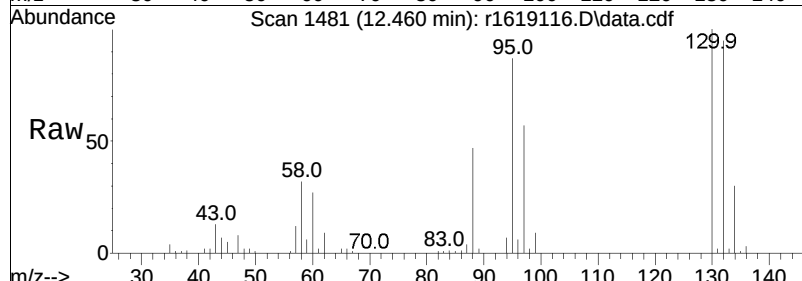
Tgt	Ion	Resp	Lower	Upper
88	100			
58	67.4	54.7	82.1	

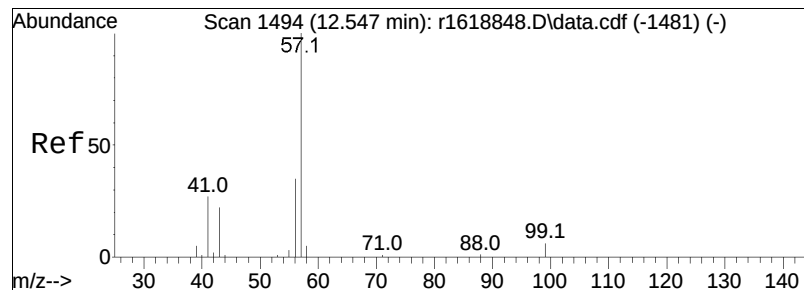




#59
trichloroethene
Concen: 10.07 ppbV
RT: 12.460 min Scan# 1481
Delta R.T. 0.000 min
Lab File: r1619116.D
Acq: 16 Sep 2020 12:20 PM

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	277842		
132	94.5		77.4	116.2
97	56.6		45.5	68.3





#60

2,2,4-trimethylpentane

Concen: 9.82 ppbV

RT: 12.507 min Scan# 1488

Delta R.T. 0.000 min

Lab File: r1619116.D

Acq: 16 Sep 2020 12:20 PM

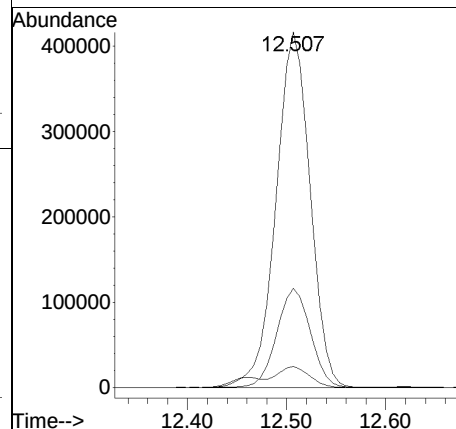
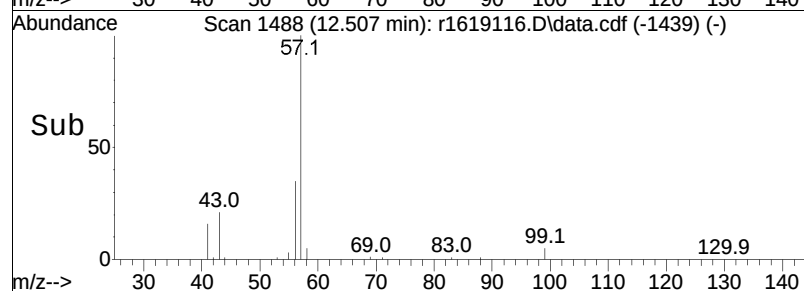
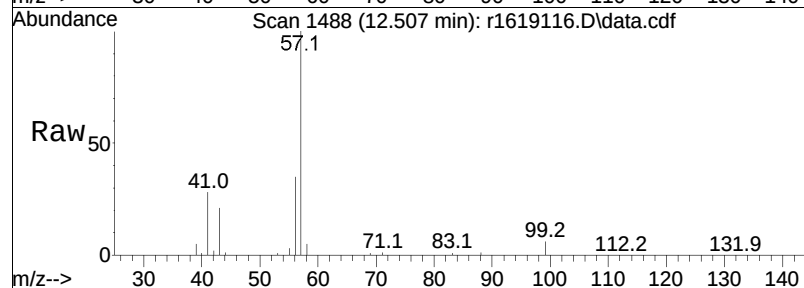
Tgt Ion: 57 Resp: 995340

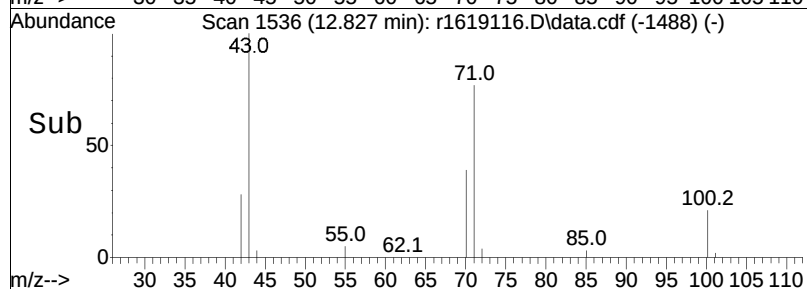
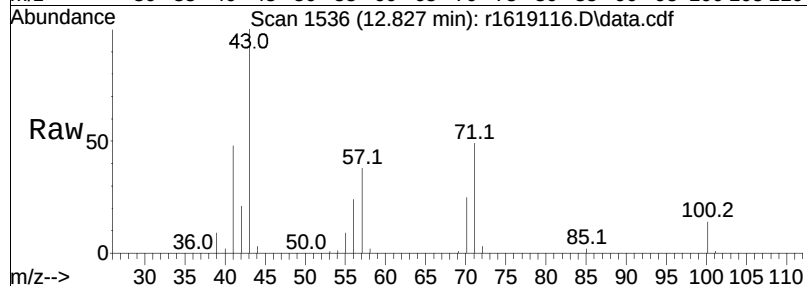
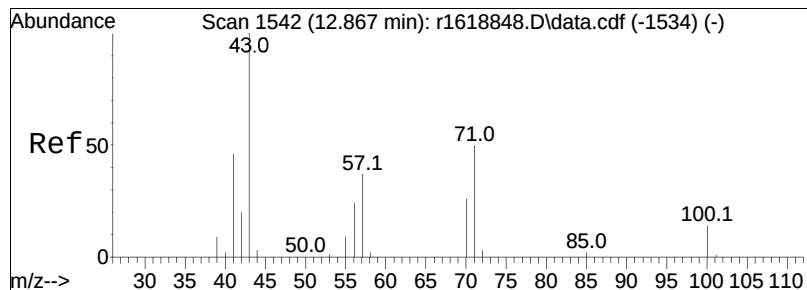
Ion Ratio Lower Upper

57 100

99 5.9 4.9 7.3

41 27.9 21.9 32.9





#62

heptane

Concen: 9.82 ppbV

RT: 12.827 min Scan# 1536

Delta R.T. -0.007 min

Lab File: r1619116.D

Acq: 16 Sep 2020 12:20 PM

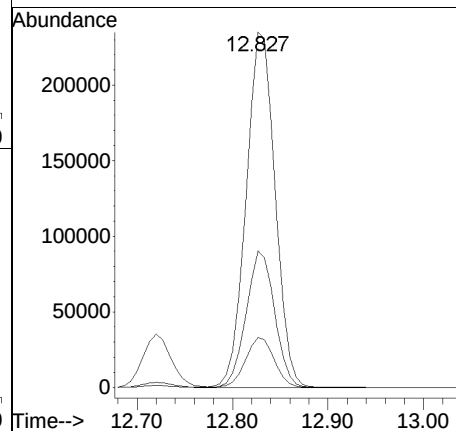
Tgt Ion: 43 Resp: 495598

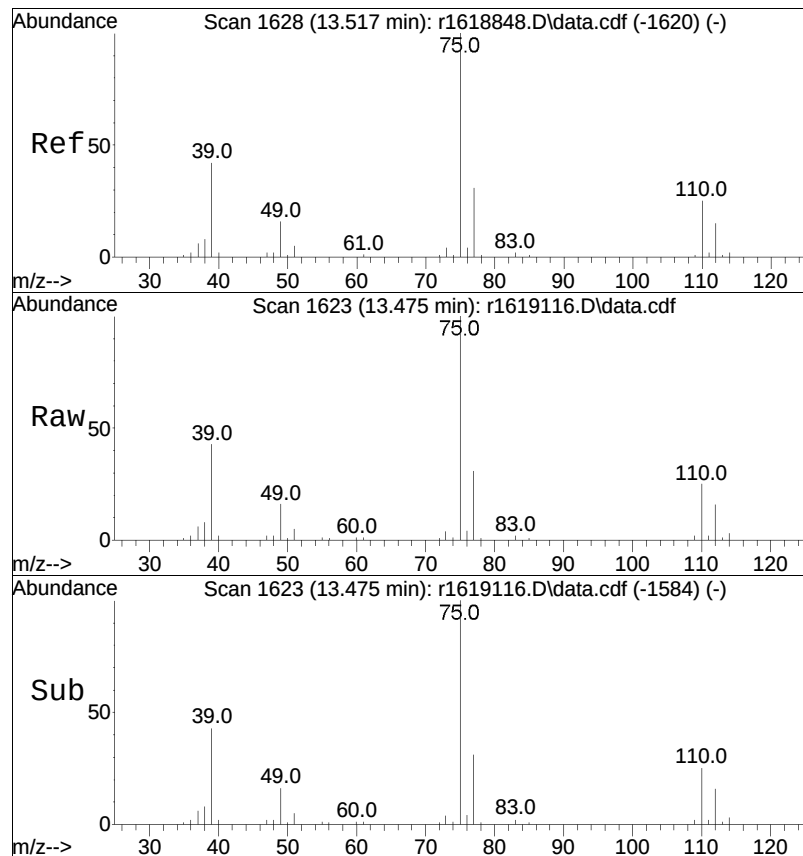
Ion Ratio Lower Upper

43 100

57 38.4 29.9 44.9

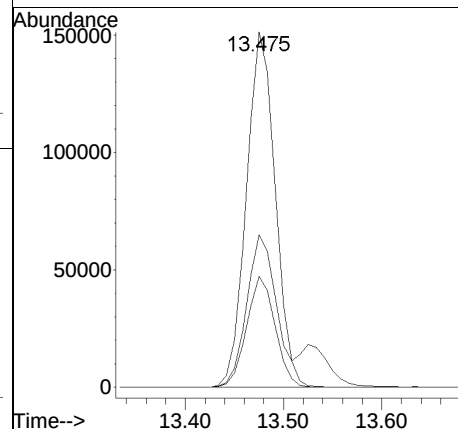
100 14.1 11.5 17.3

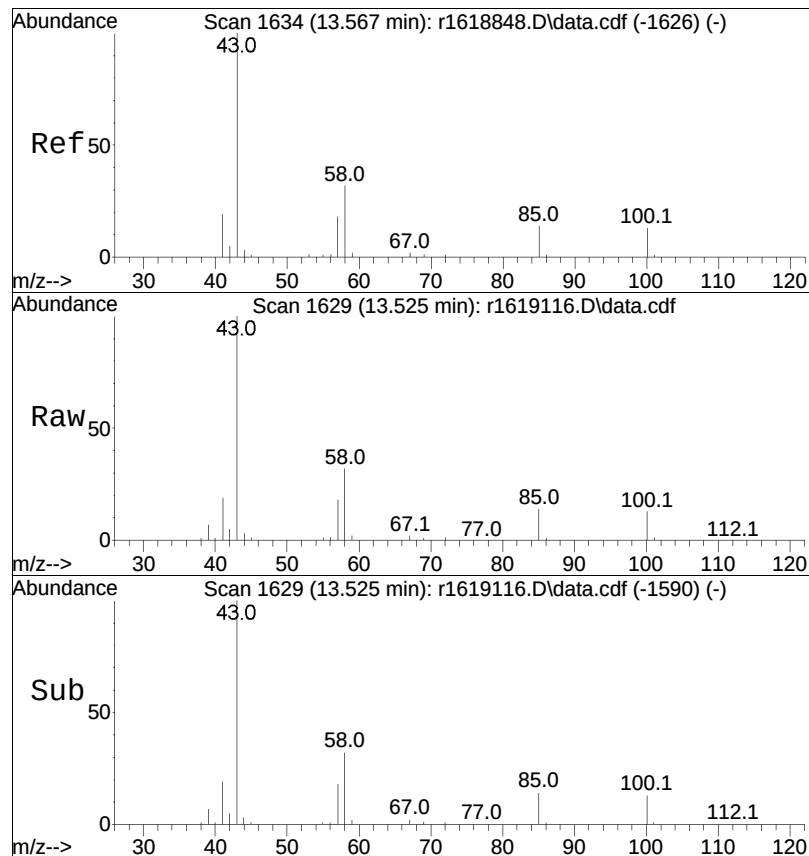




#63
 cis-1,3-dichloropropene
 Concen: 9.83 ppbV
 RT: 13.475 min Scan# 1623
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

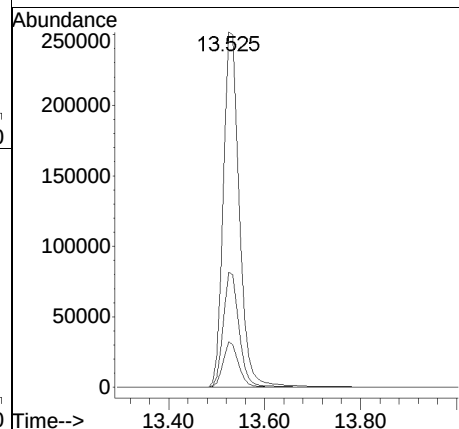
Tgt Ion	Ratio	Resp	Lower	Upper
75	100	308986		
39	43.0		33.3	49.9
77	31.3		24.6	37.0

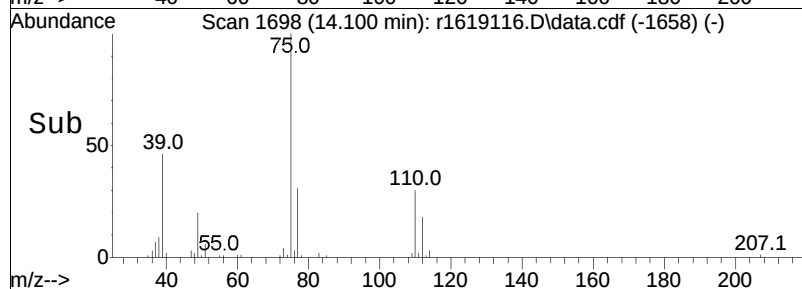
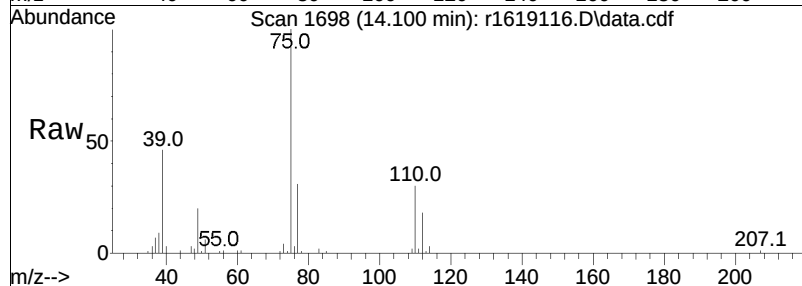
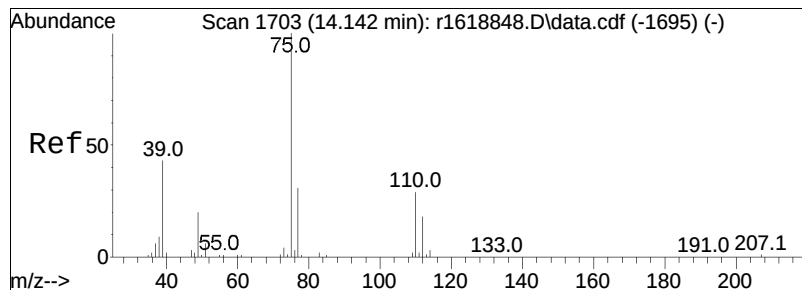




#64
 4-methyl-2-pentanone
 Concen: 10.25 ppbV
 RT: 13.525 min Scan# 1629
 Delta R.T. -0.008 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

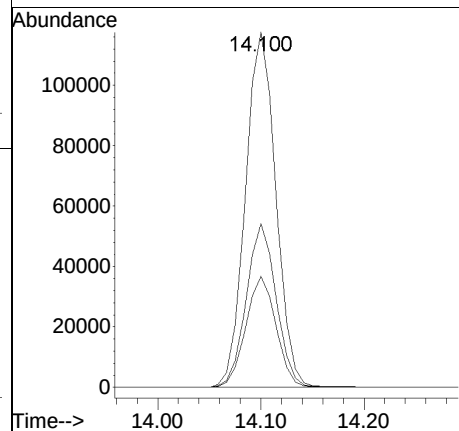
Tgt	Ion	Ratio	Lower	Upper
43	100			
58	32.4	25.3	37.9	
100	12.9	10.2	15.2	

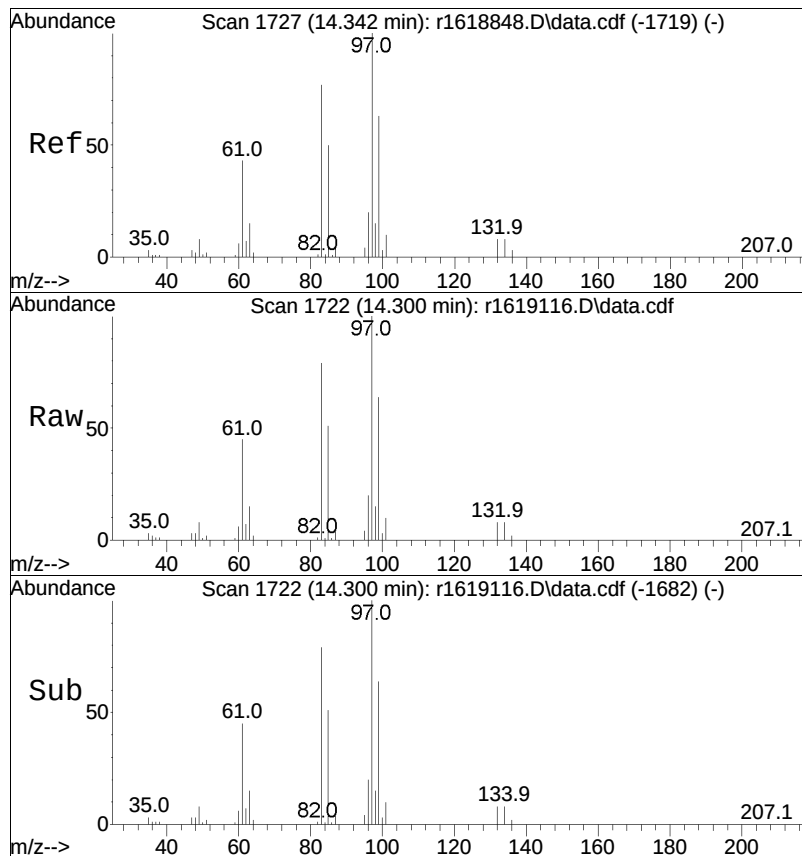




#65
 trans-1,3-dichloropropene
 Concen: 8.57 ppbV
 RT: 14.100 min Scan# 1698
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

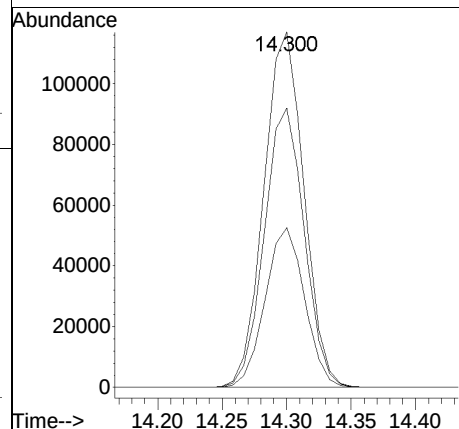
Tgt Ion:	75	Resp:	241106
Ion Ratio	Lower	Upper	
75	100		
77	31.3	24.4	36.6
39	46.1	34.2	51.2

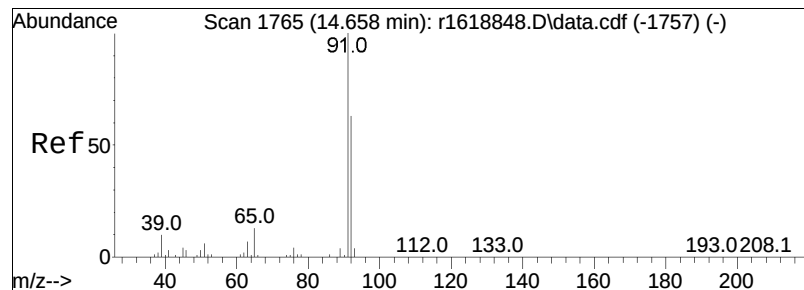




#66
 1,1,2-trichloroethane
 Concen: 10.19 ppbV
 RT: 14.300 min Scan# 1722
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

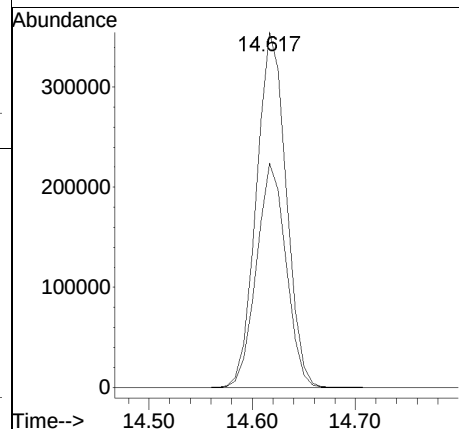
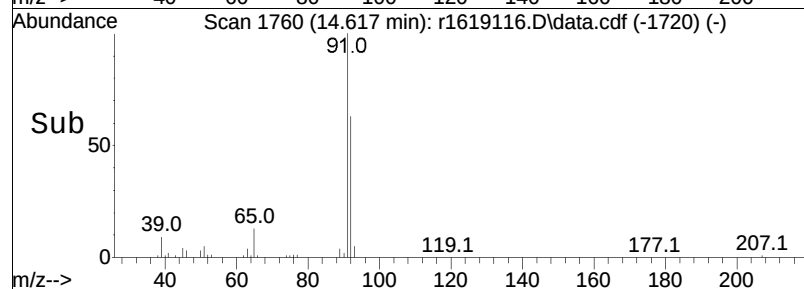
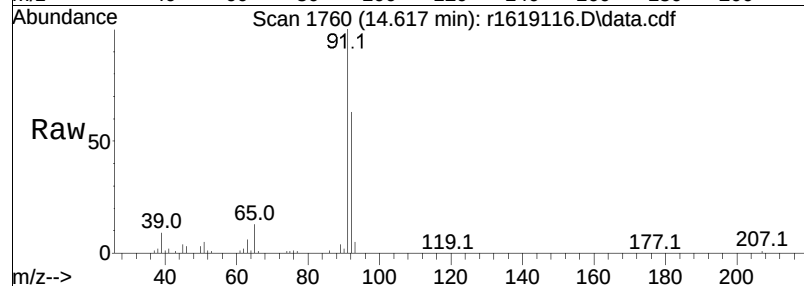
Tgt Ion	Ratio	Resp	Lower	Upper
97	100	252793		
83	78.6		61.5	92.3
61	44.9		34.7	52.1

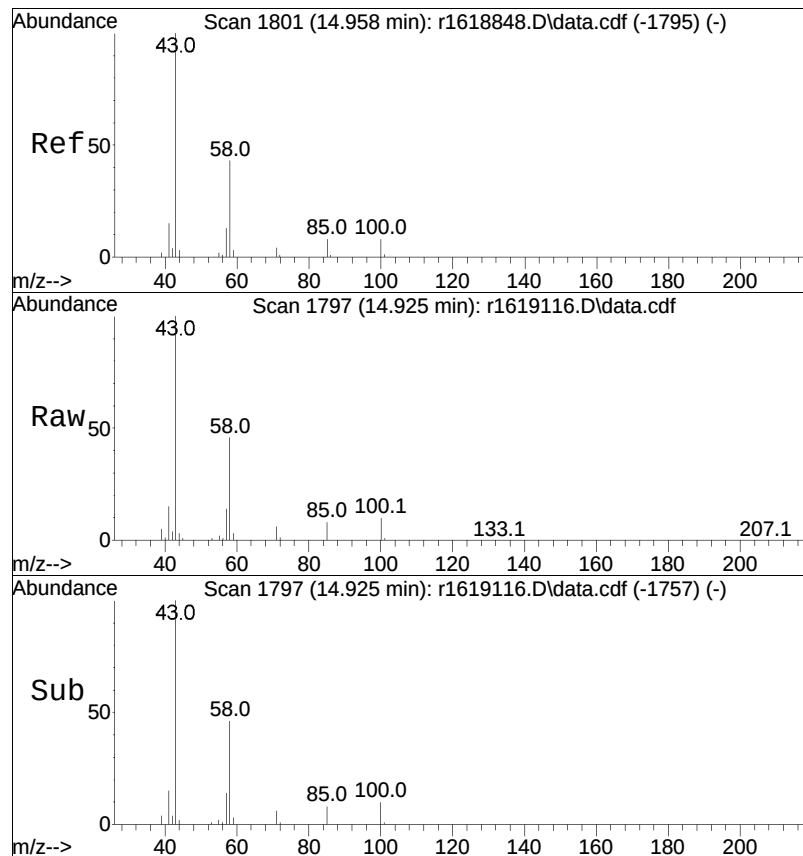




#68
toluene
Concen: 9.38 ppbV
RT: 14.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: r1619116.D
Acq: 16 Sep 2020 12:20 PM

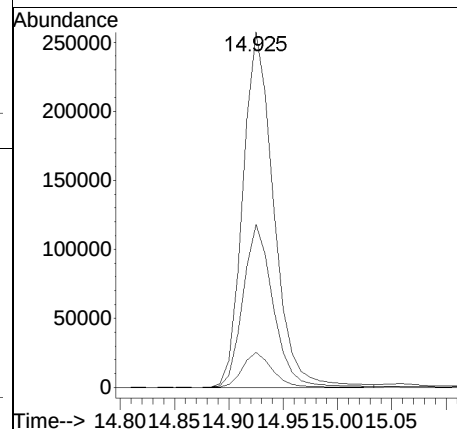
Tgt	Ion	Resp	Lower	Upper
91	100	711598		
92	63.1	50.6	75.8	

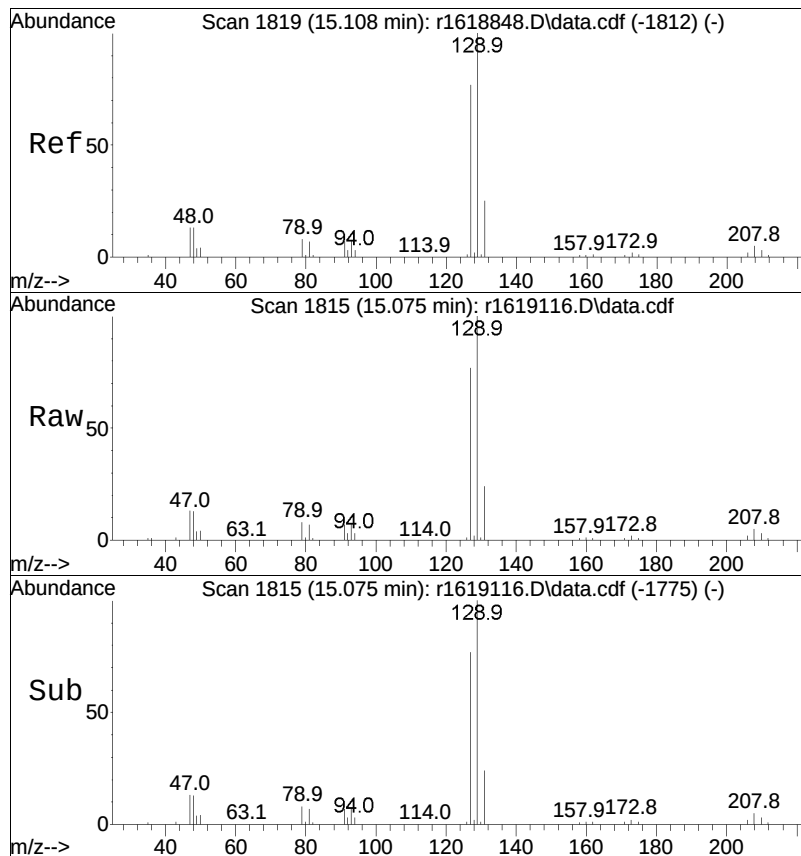




#72
 2-hexanone
 Concen: 9.52 ppbV
 RT: 14.925 min Scan# 1797
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

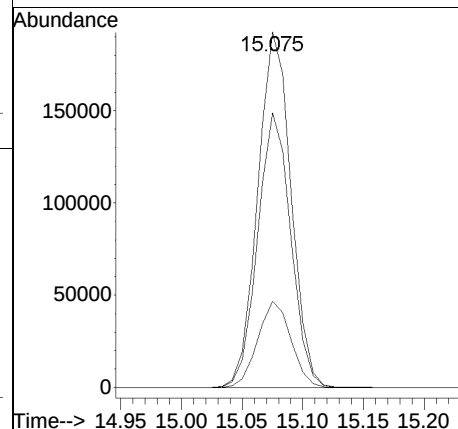
Tgt Ion:	43	Resp:	510125
Ion Ratio	Lower	Upper	
43	100		
58	45.9	35.8	53.8
100	9.9	8.0	12.0

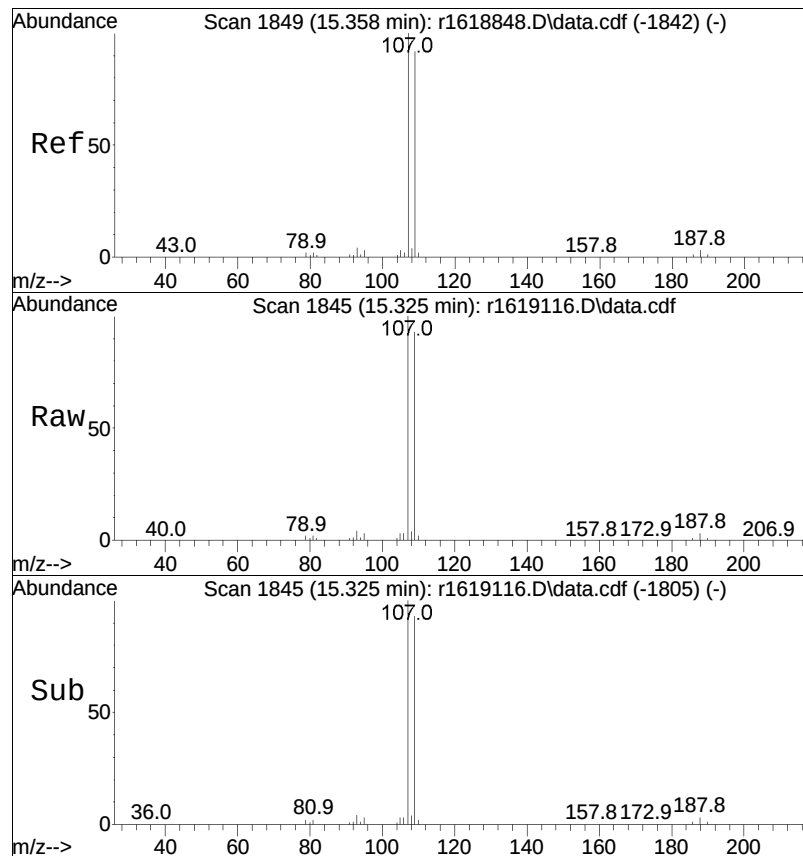




#74
 dibromochloromethane
 Concen: 10.01 ppbV
 RT: 15.075 min Scan# 1815
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

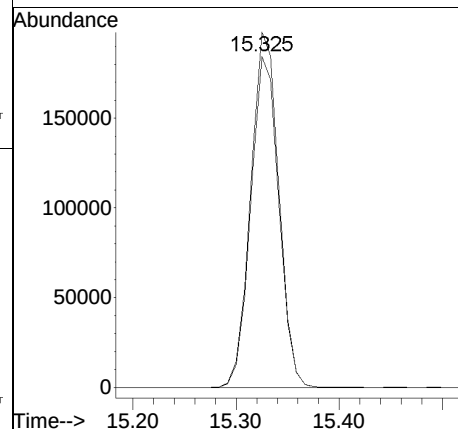
Tgt Ion	Ratio	Resp	Lower	Upper
129	100	366630		
127	77.3		61.3	91.9
131	24.3		19.7	29.5

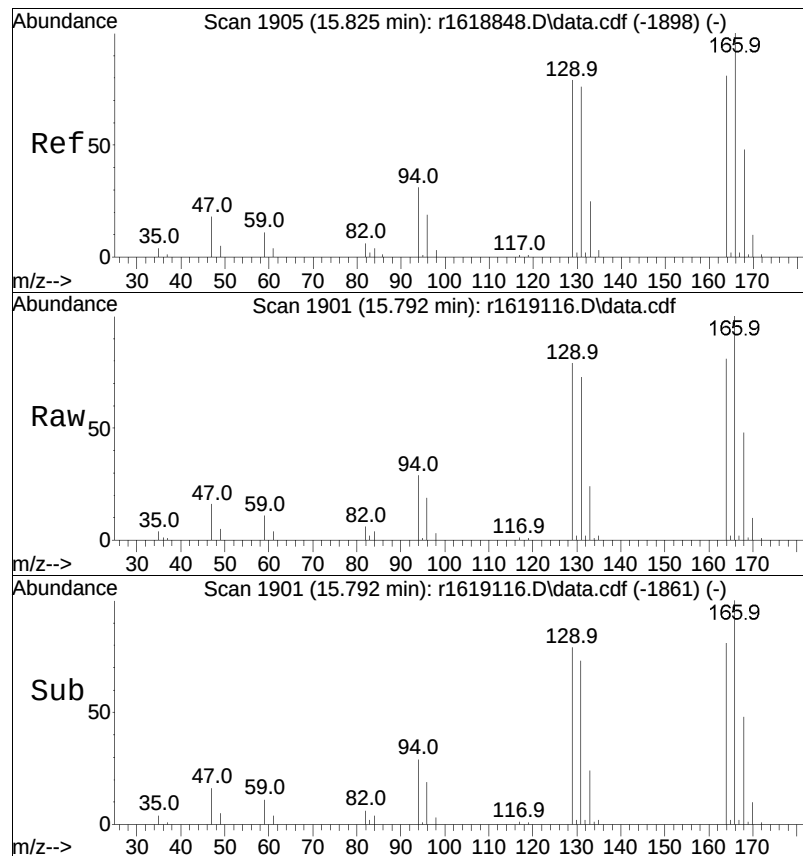




#75
 1,2-dibromoethane
 Concen: 9.61 ppbV
 RT: 15.325 min Scan# 1845
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

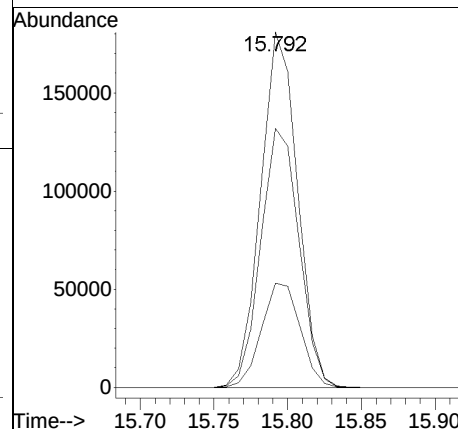
Tgt	Ion	Ratio	Lower	Upper
107	100			
109	93.1	73.9	110.9	

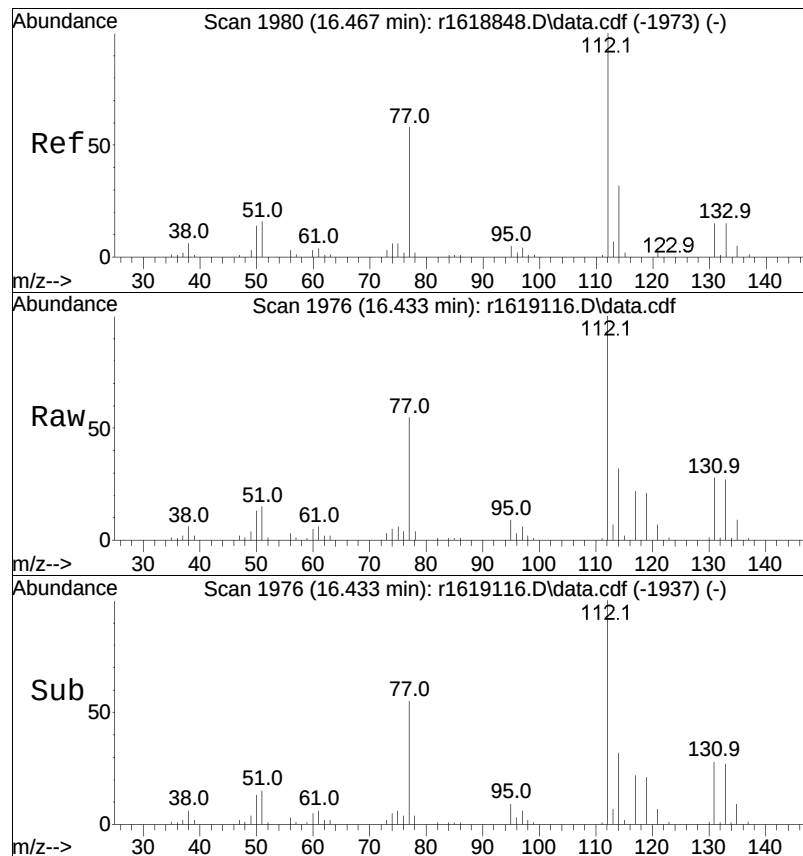




#78
 tetrachloroethene
 Concen: 9.61 ppbV
 RT: 15.792 min Scan# 1901
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

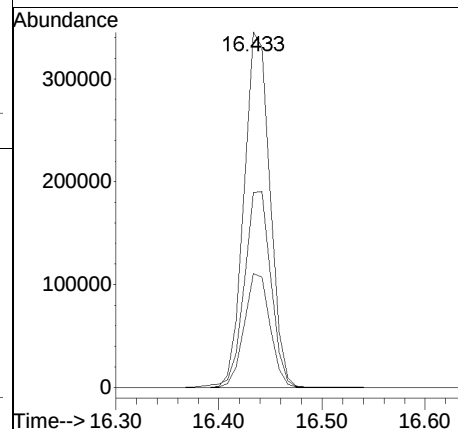
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	314852		
131	72.9		61.0	91.6
94	29.4		24.6	37.0

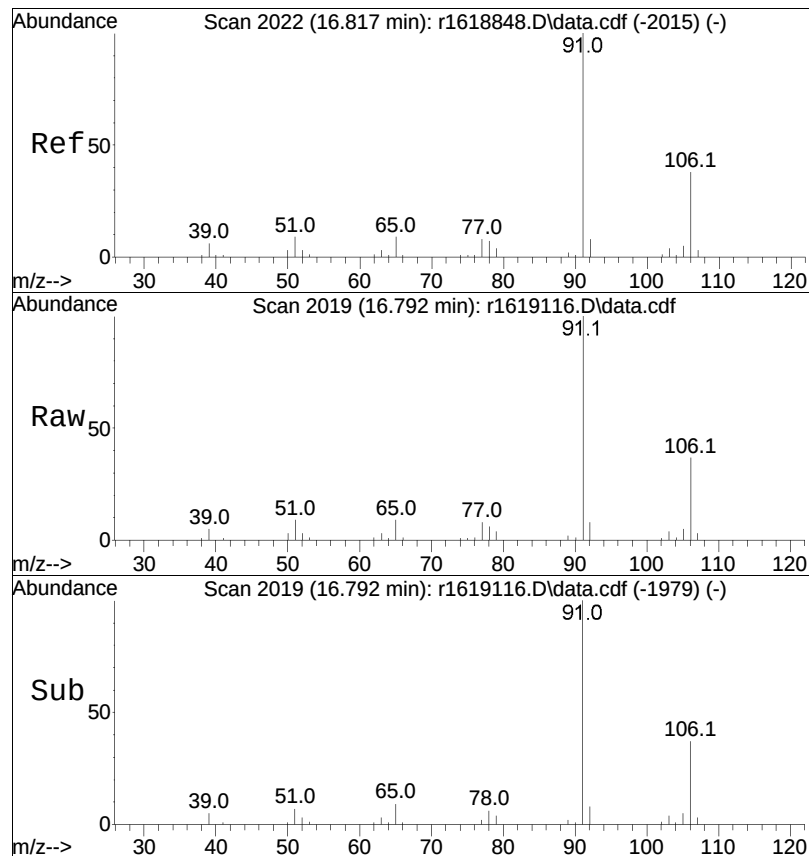




#80
chlorobenzene
Concen: 9.70 ppbV
RT: 16.433 min Scan# 1976
Delta R.T. -0.008 min
Lab File: r1619116.D
Acq: 16 Sep 2020 12:20 PM

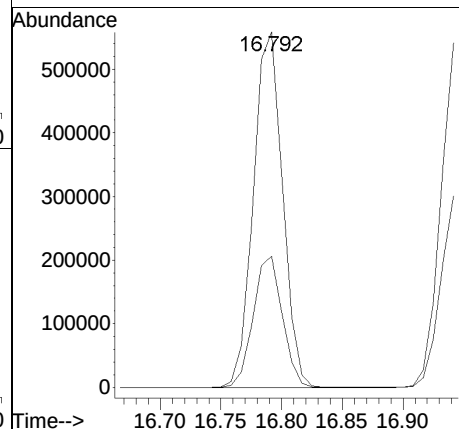
Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.2	37.8
77	54.8	46.6	69.8

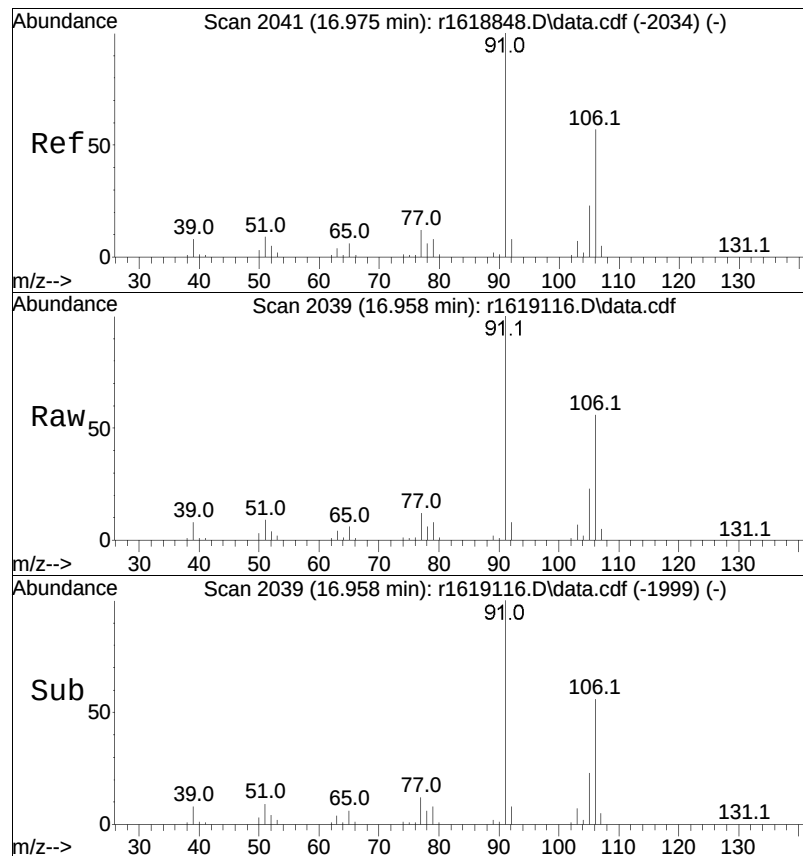




#81
ethylbenzene
Concen: 9.72 ppbV
RT: 16.792 min Scan# 2019
Delta R.T. 0.000 min
Lab File: r1619116.D
Acq: 16 Sep 2020 12:20 PM

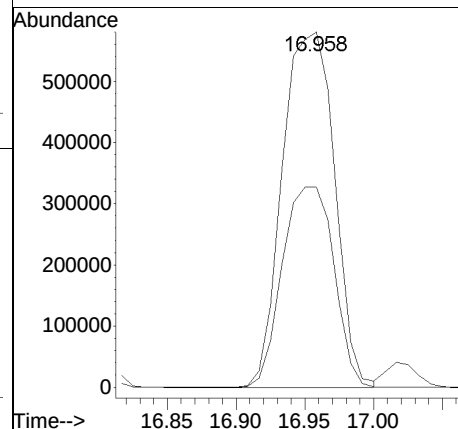
Tgt	Ion	Ratio	Lower	Upper
91	100			
106	37.0	30.3	45.5	

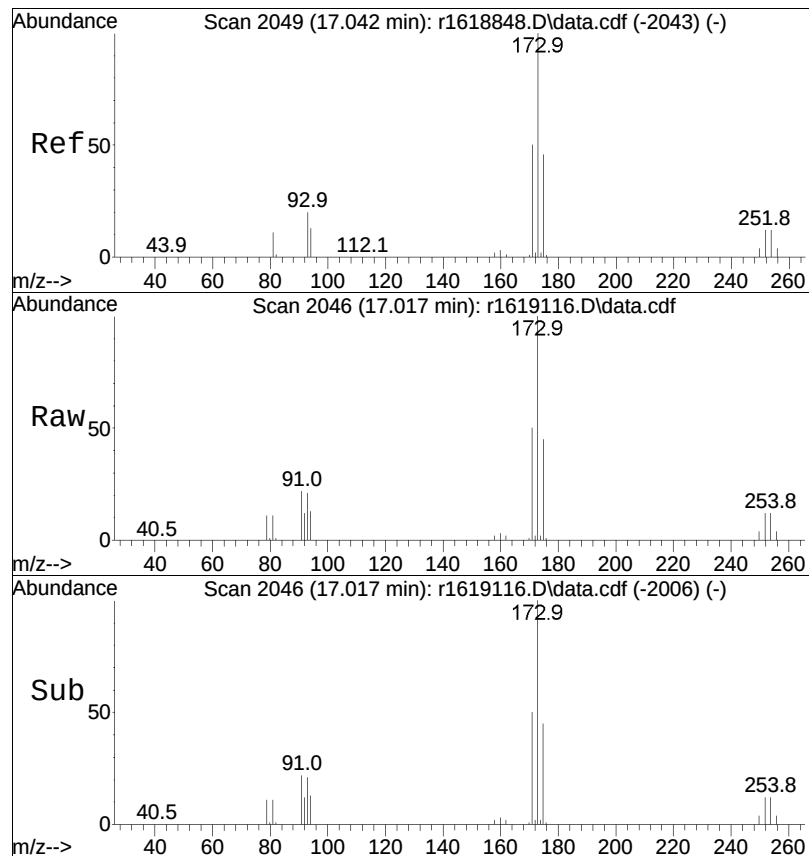




#83
 m+p-xylene
 Concen: 19.72 ppbV
 RT: 16.958 min Scan# 2039
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

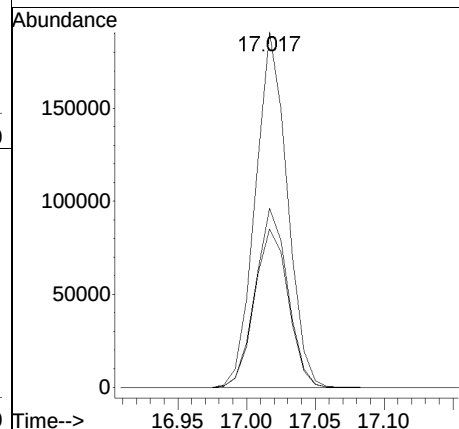
Tgt Ion:	91	Resp:	1527929
Ion Ratio	Lower	Upper	
91	100		
106	56.4	45.2	67.8

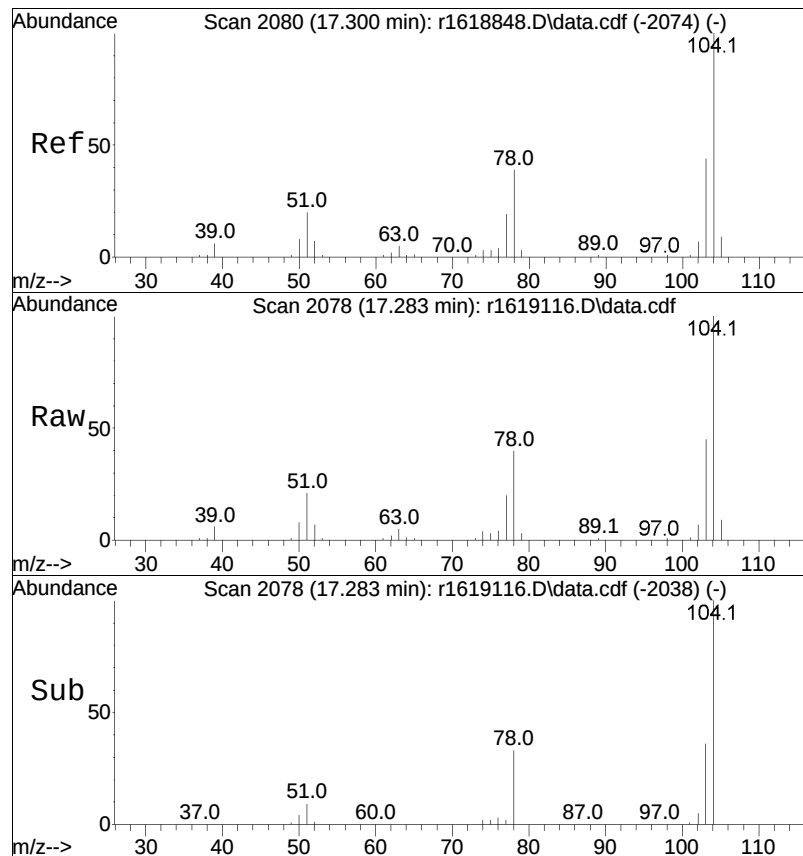




#84
bromoform
Concen: 10.10 ppbV
RT: 17.017 min Scan# 2046
Delta R.T. 0.000 min
Lab File: r1619116.D
Acq: 16 Sep 2020 12:20 PM

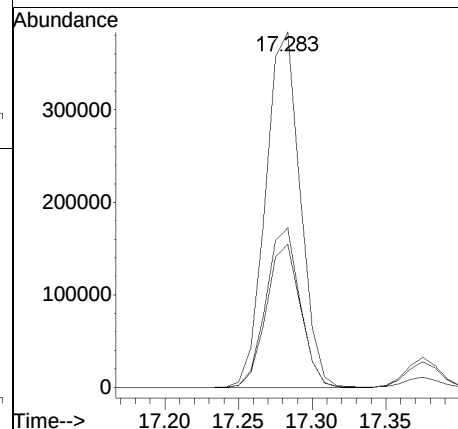
Tgt Ion	Ratio	Resp	Lower	Upper
173	100	307614		
175	44.5		36.6	55.0
171	50.4		39.9	59.9

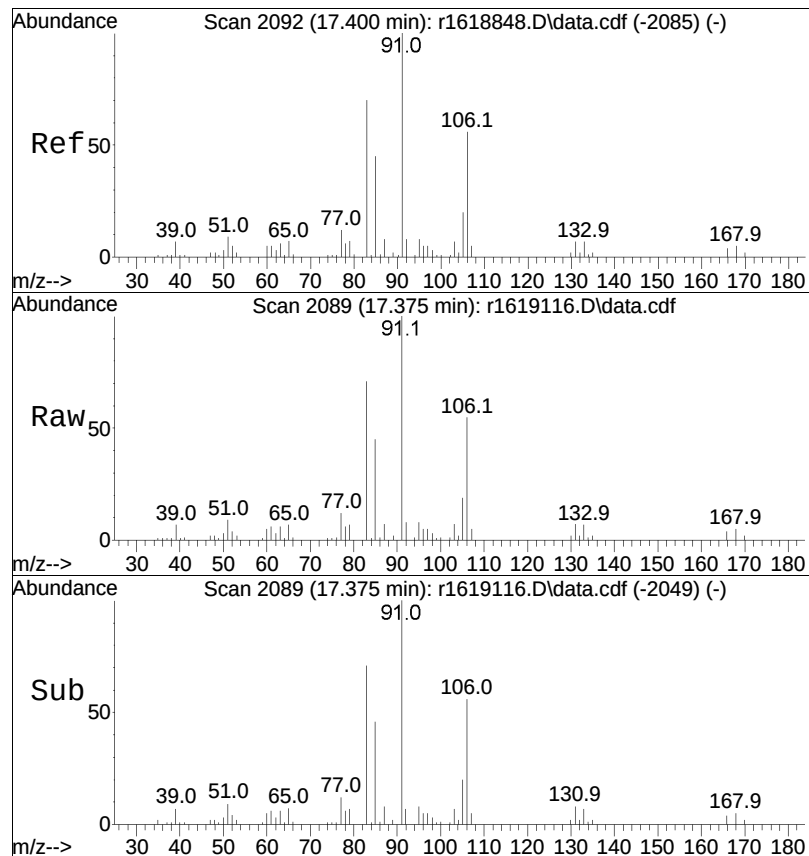




#85
 styrene
 Concen: 9.61 ppbV
 RT: 17.283 min Scan# 2078
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

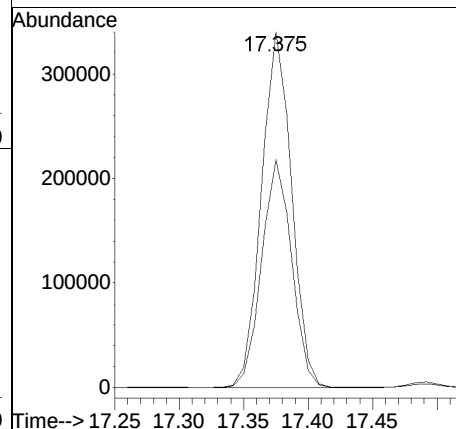
Tgt	Ion:104	Resp:	627623
Ion	Ratio	Lower	Upper
104	100		
103	44.9	35.3	52.9
78	40.3	31.5	47.3

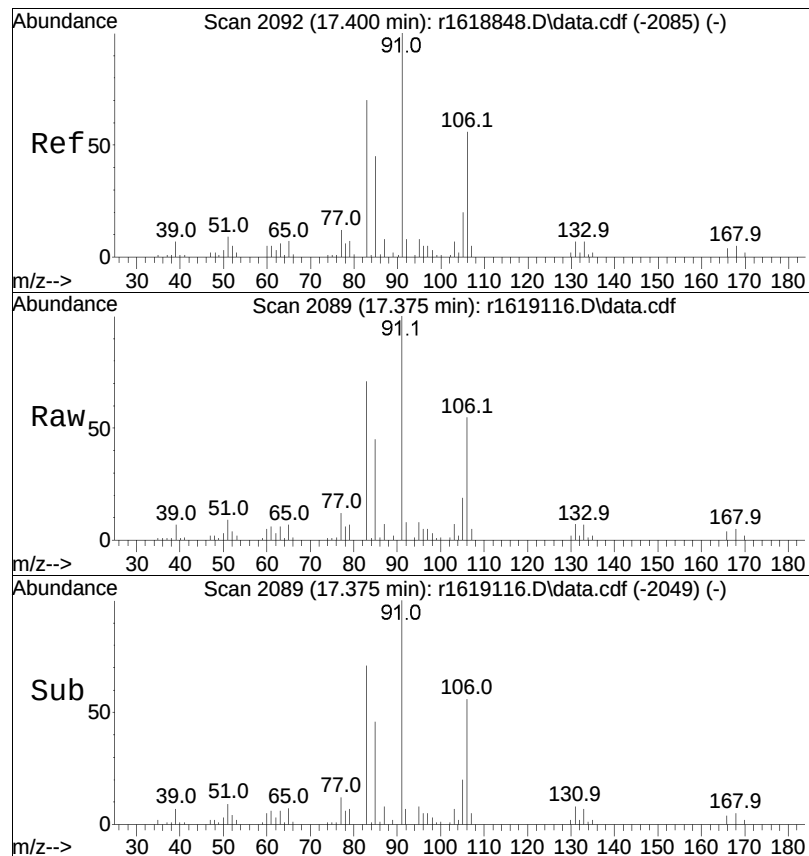




#86
 1,1,2,2-tetrachloroethane
 Concen: 9.97 ppbV
 RT: 17.375 min Scan# 2089
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

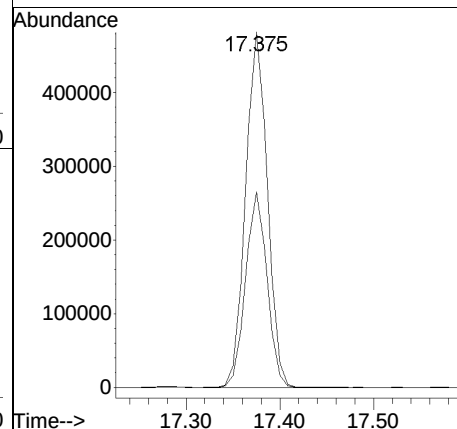
Tgt Ion	83	Resp	551311
Ion Ratio	100	Lower	Upper
85	64.1	51.8	77.8

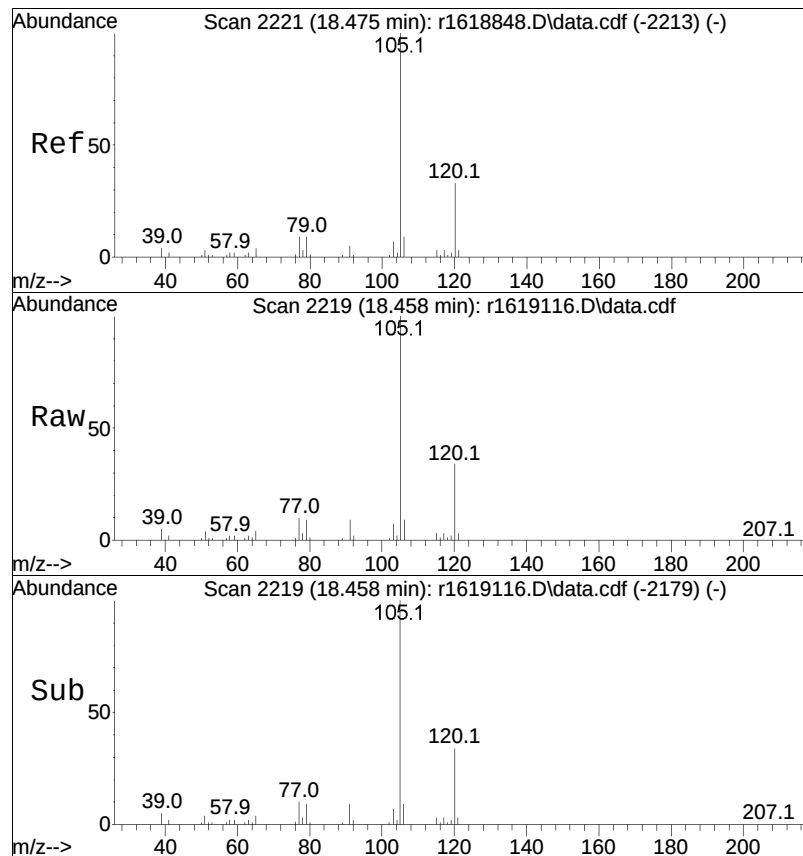




#87
 o-xylene
 Concen: 9.98 ppbV
 RT: 17.375 min Scan# 2089
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

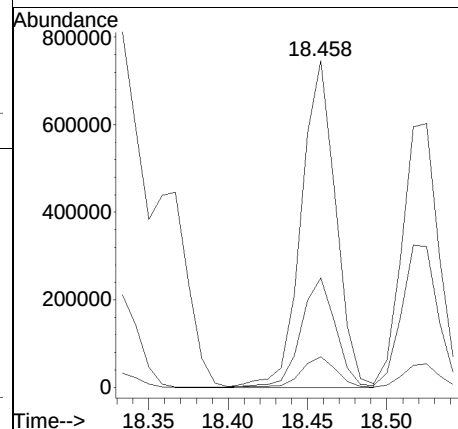
Tgt	Ion	Resp	Lower	Upper
91	100	777924		
106	55.0	44.6	66.8	

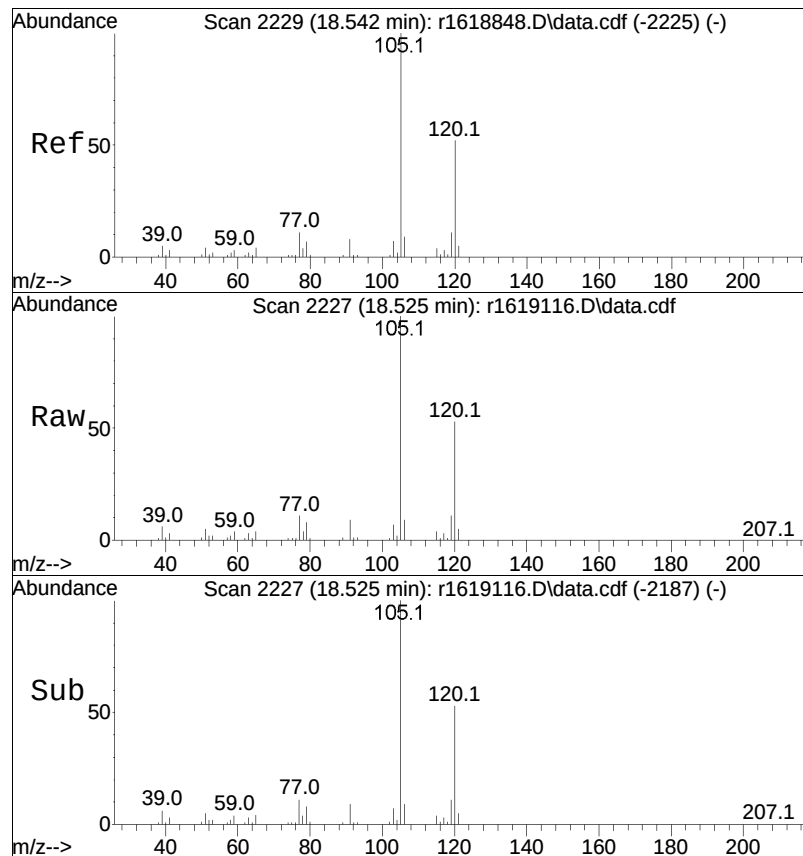




#96
 4-ethyl toluene
 Concen: 9.72 ppbV
 RT: 18.458 min Scan# 2219
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

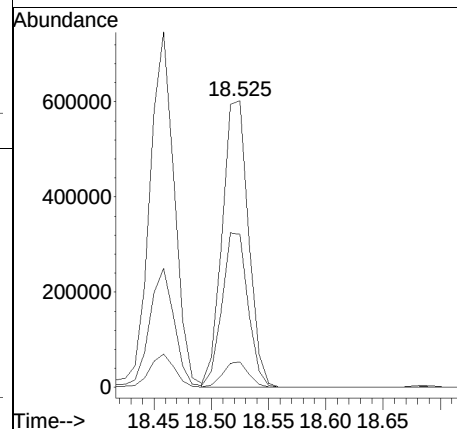
Tgt Ion	Ratio	Lower	Upper
105	100		
120	33.5	26.4	39.6
91	9.4	7.2	10.8

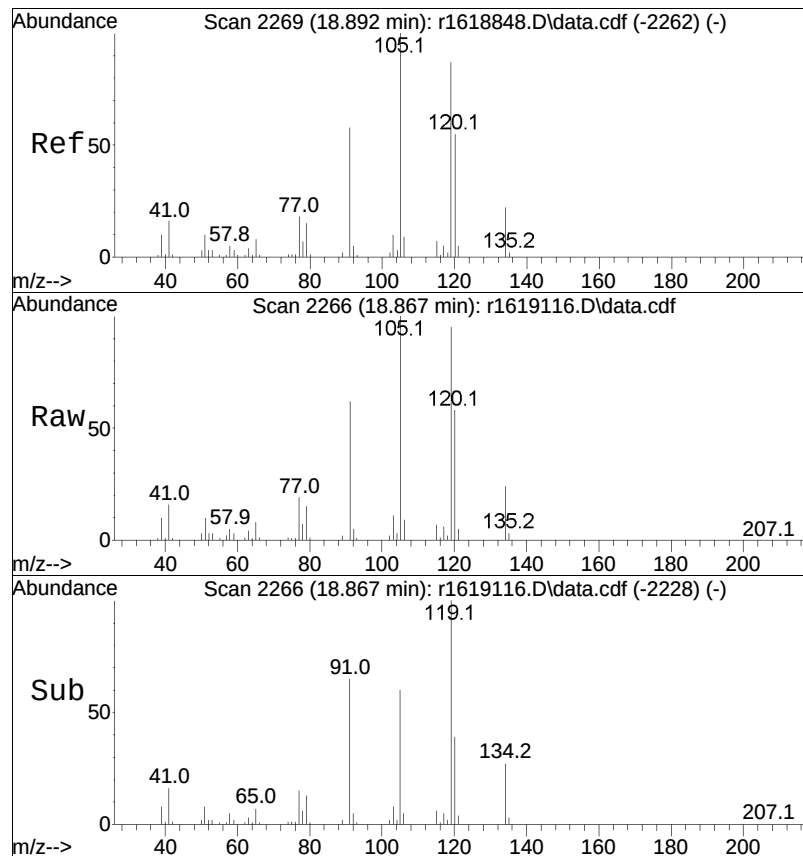




#97
 1,3,5-trimethylbenzene
 Concen: 9.75 ppbV
 RT: 18.525 min Scan# 2227
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

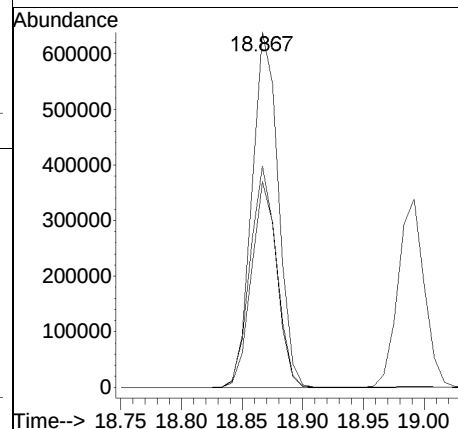
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	961307		
120	53.4		41.2	61.8
91	8.9		6.7	10.1

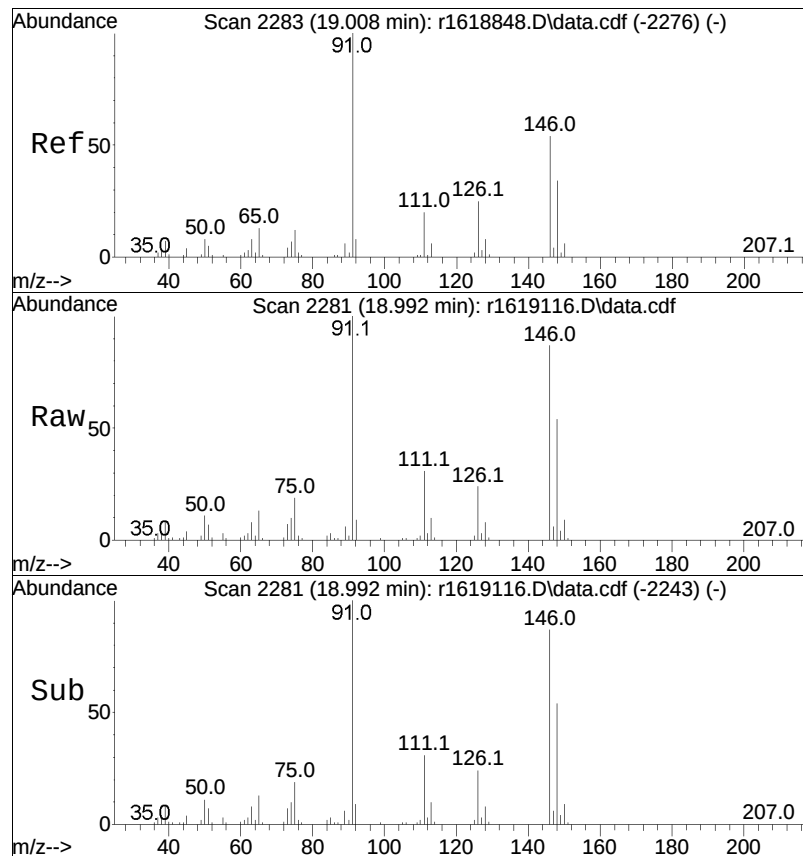




#99
 1,2,4-trimethylbenzene
 Concen: 10.38 ppbV
 RT: 18.867 min Scan# 2266
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

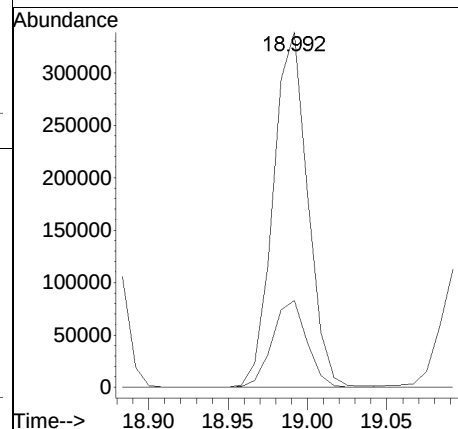
Tgt	Ion:105	Resp:	962513
Ion	Ratio	Lower	Upper
105	100		
120	57.9	44.0	66.0
91	62.3	46.2	69.4

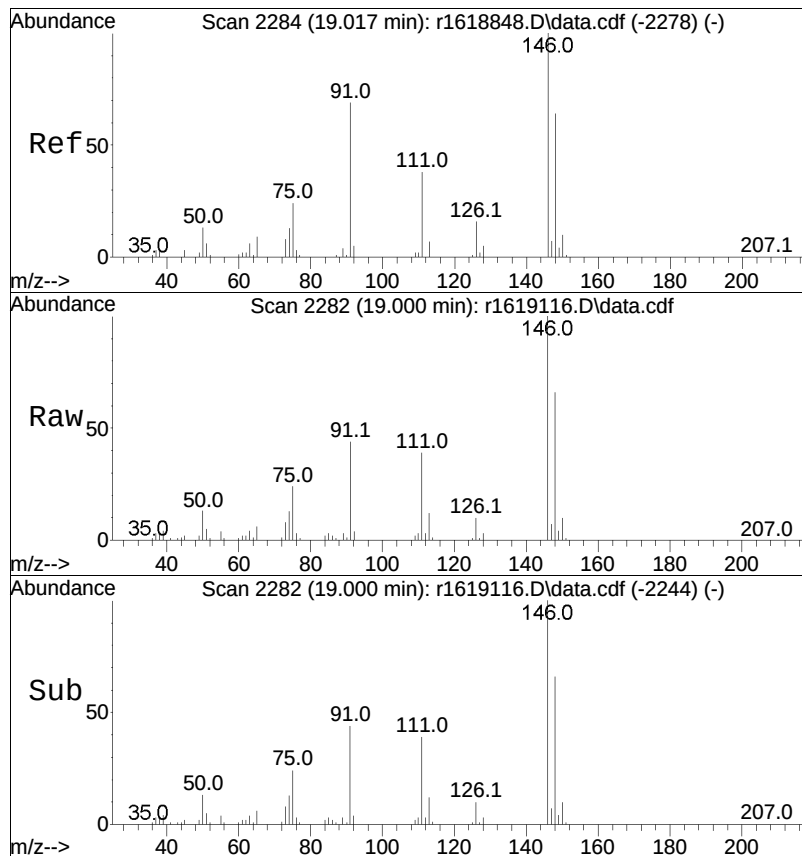




#101
 Benzyl Chloride
 Concen: 9.63 ppbV
 RT: 18.992 min Scan# 2281
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

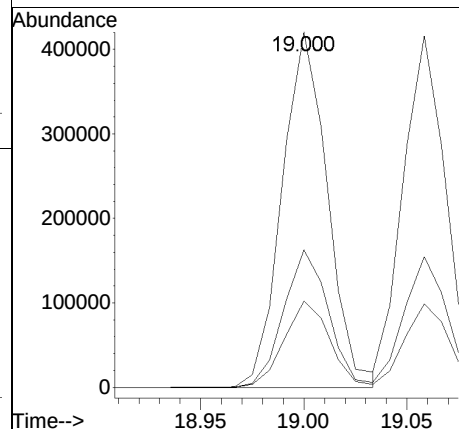
Tgt Ion	Ratio	Lower	Upper
91	100		
126	24.5	19.9	29.9

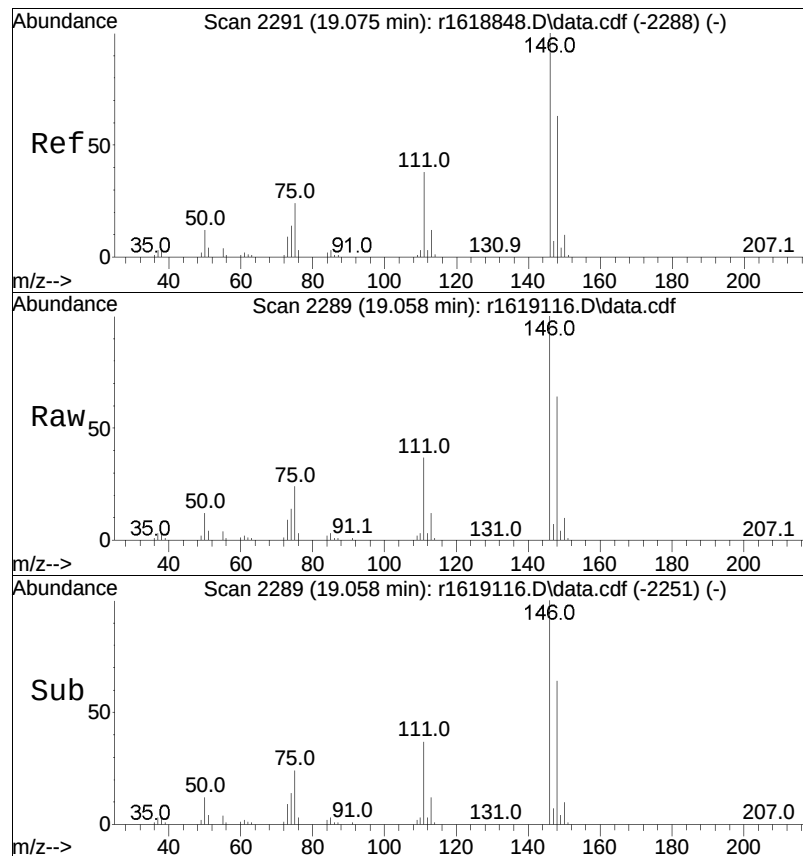




#102
 1,3-dichlorobenzene
 Concen: 10.43 ppbV
 RT: 19.000 min Scan# 2282
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

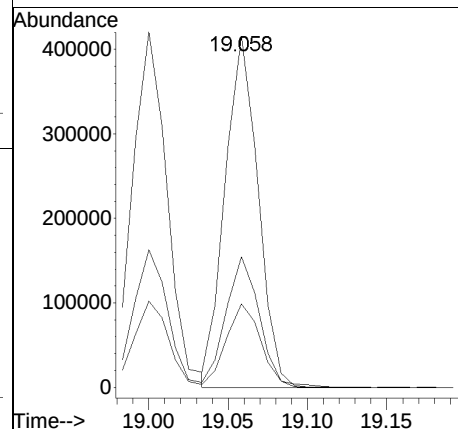
Tgt	Ion:146	Resp:	643722
Ion	Ratio	Lower	Upper
146	100		
111	38.7	30.3	45.5
75	24.3	19.0	28.4

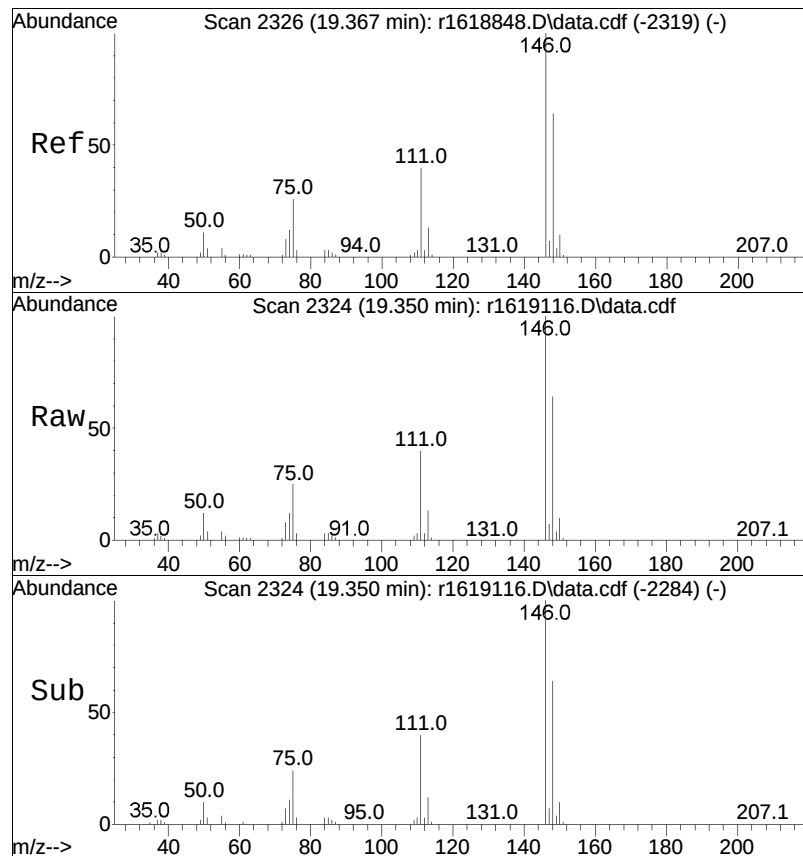




#103
 1,4-dichlorobenzene
 Concen: 10.23 ppbV
 RT: 19.058 min Scan# 2289
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

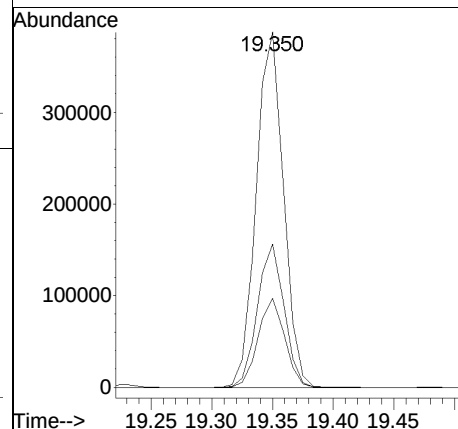
Tgt Ion:	146	Resp:	602786
Ion Ratio	Lower	Upper	
146	100		
111	37.2	30.0	45.0
75	23.8	19.5	29.3

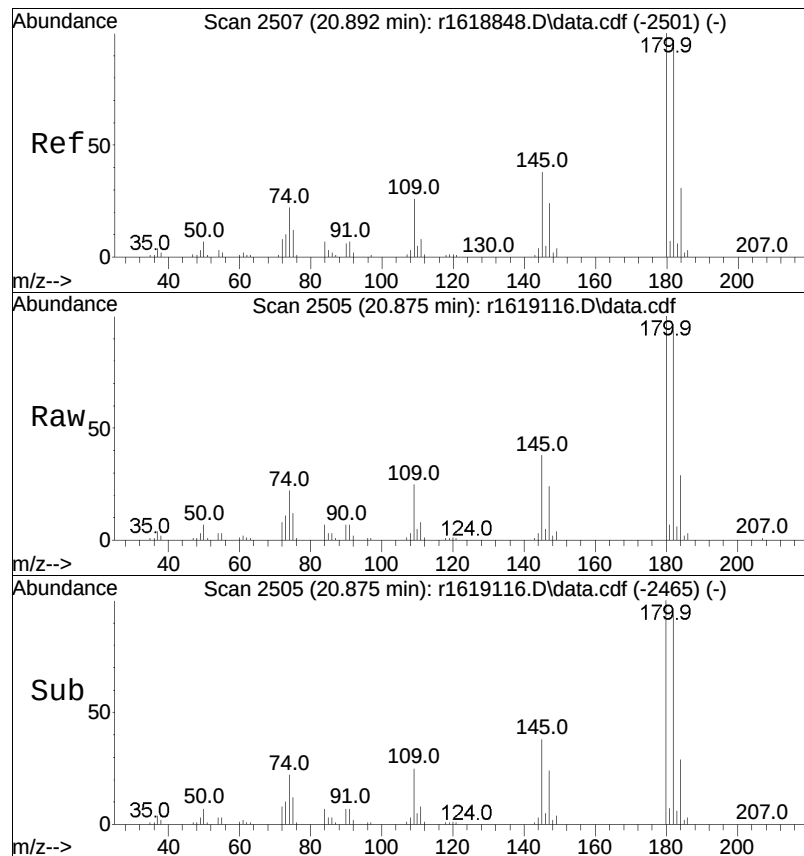




#107
 1,2-dichlorobenzene
 Concen: 10.19 ppbV
 RT: 19.350 min Scan# 2324
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

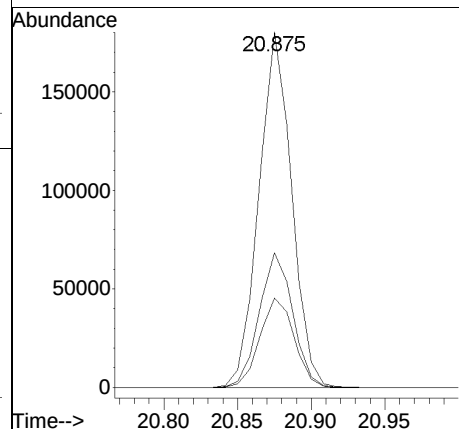
Tgt	Ion	Ratio	Lower	Upper
146	100			
111	40.3	31.7	47.5	
75	25.1	20.5	30.7	

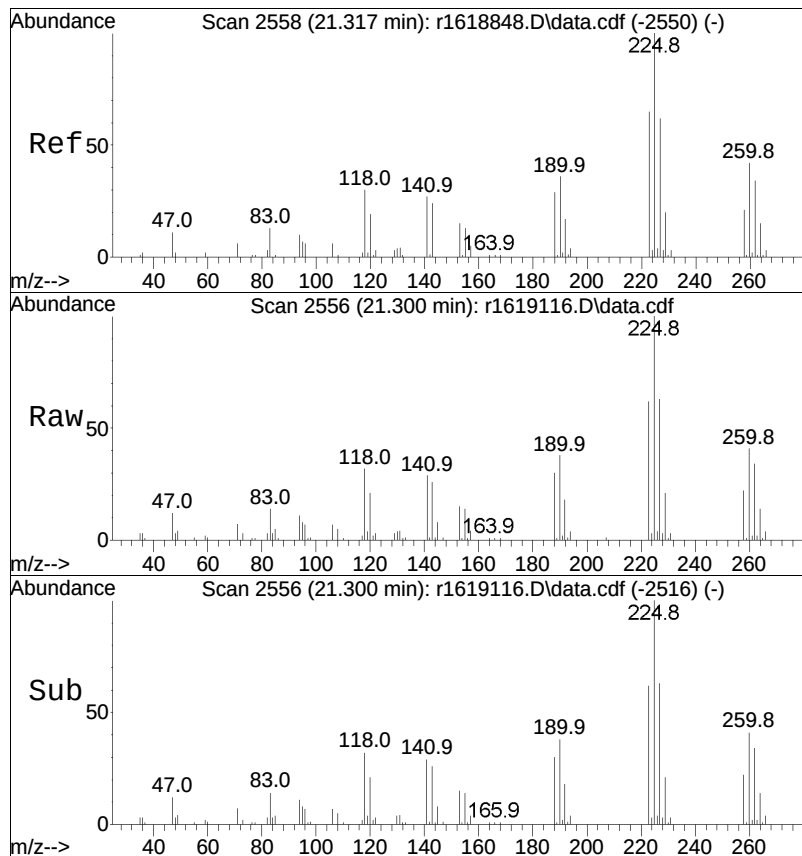




#115
 1,2,4-trichlorobenzene
 Concen: 9.65 ppbV
 RT: 20.875 min Scan# 2505
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

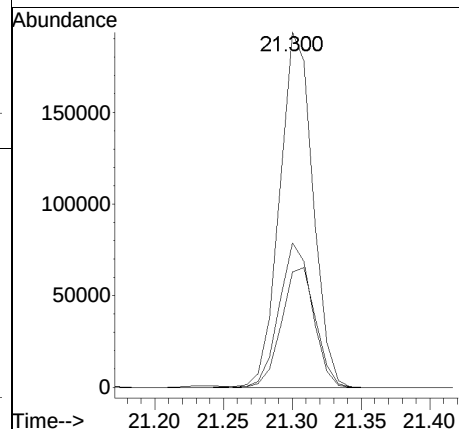
Tgt	Ion:180	Resp:	278373
Ion	Ratio	Lower	Upper
180	100		
145	37.9	30.1	45.1
109	25.2	20.4	30.6





#119
 hexachlorobutadiene
 Concen: 10.53 ppbV
 RT: 21.300 min Scan# 2556
 Delta R.T. 0.000 min
 Lab File: r1619116.D
 Acq: 16 Sep 2020 12:20 PM

Tgt	Ion	Ratio	Resp	Lower	Upper
225	100		325068		
260	40.7	33.4		50.2	
118	32.5	24.9		37.3	



Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619122.D
 Acq On : 16 Sep 2020 6:11 PM
 Operator : AIRLAB16:TS
 Sample : WG1410723-5,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 07:54:11 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.400	49	261046	10.000	ppbV	0.00
Standard Area = 289019			Recovery =		90.32%	
43) 1,4-difluorobenzene	11.673	114	822096	10.000	ppbV	0.00
Standard Area = 862875			Recovery =		95.27%	
67) chlorobenzene-D5	16.408	54	116251	10.000	ppbV	0.00
Standard Area = 122360			Recovery =		95.01%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) chlorodifluoromethane	3.772	51	21415	0.987	ppbV	97
3) propylene	3.826	41	11668	0.877	ppbV #	48
4) propane	3.826	29	38748	2.621	ppbV	95
5) dichlorodifluoromethane	3.880	85	12146	0.491	ppbV	100
6) chloromethane	0.000		0	N.D.	d	
7) Freon-114	0.000		0	N.D.	d	
8) methanol	4.264	31	243392	44.489	ppbV	98
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.468		0	N.D.		
11) butane	4.528	43	25103	0.952	ppbV	96
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.194	31	49416	5.278	ppbV	93
16) dichlorofluoromethane	0.000		0	N.D.		
17) vinyl bromide	0.000		0	N.D.		
18) acrolein	5.583	56	416	0.066	ppbV #	39
19) acetone	5.753	43	129752	5.729	ppbV #	86
20) acetonitrile	5.433	41	1842	0.137	ppbV	92
21) trichlorofluoromethane	5.930	101	7719	0.385	ppbV	98
22) isopropyl alcohol	6.110	45	60530	2.112	ppbV	99
23) acrylonitrile	0.000		0	N.D.		
24) pentane	6.367	43	14932	0.540	ppbV	96
25) ethyl ether	0.000		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	6.868	59	1544	0.074	ppbV #	36
28) methylene chloride	6.856	49	3659	0.200	ppbV	93
29) 3-chloropropene	6.910		0	N.D.		
30) carbon disulfide	7.138	76	6313	0.132	ppbV #	1
31) Freon 113	7.192	101	1858	0.067	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619122.D
 Acq On : 16 Sep 2020 6:11 PM
 Operator : AIRLAB16:TS
 Sample : WG1410723-5,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 07:54:11 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) trans-1,2-dichloroethene	7.983		0	N.D.		
33) 1,1-dichloroethane	8.217		0	N.D.		
34) MTBE	8.367		0	N.D.		
35) vinyl acetate	8.433	43	13403	0.360	ppbV #	93
36) 2-butanone	8.750	43	21440	0.601	ppbV	99
37) cis-1,2-dichloroethene	9.217	61	3684	0.219	ppbV	95
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.567	83	4687	0.186	ppbV #	93
40) Tetrahydrofuran	10.067	42	5631M6	0.223	ppbV	
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.475	57	3950	0.141	ppbV #	58
45) diisopropyl ether	9.567		0	N.D.		
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	10.700		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
50) benzene	11.227	78	6125	0.101	ppbV	98
52) carbon tetrachloride	11.393	117	1421	0.062	ppbV #	82
53) cyclohexane	11.547	56	1971	0.065	ppbV	91
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	12.153		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	12.420		0	N.D.		
58) 1,4-dioxane	12.520		0	N.D.		
59) trichloroethene	12.467	130	60383	2.315	ppbV	97
60) 2,2,4-trimethylpentane	12.520	57	11208	0.117	ppbV	95
61) methyl methacrylate	12.753	41	2197	0.064	ppbV #	81
62) heptane	12.840	43	3164	0.066	ppbV #	89
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.592		0	N.D.		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.625	91	14390	0.200	ppbV	98
71) 1,3-dichloropropane	0.000		0	N.D.		
72) 2-hexanone	14.967		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
76) butyl acetate	0.000		0	N.D.		
77) octane	15.683		0	N.D.		
78) tetrachloroethene	15.800	166	6419	0.206	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : 0:\Forensics\Data\Airlab16\2020\09\200916T\
 Data File : r1619122.D
 Acq On : 16 Sep 2020 6:11 PM
 Operator : AIRLAB16:TS
 Sample : WG1410723-5,3,250,250
 Misc : WG1410723,ICAL17102
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Sep 17 07:54:11 2020
 Quant Method : 0:\Forensics\Data\Airlab16\2020\09\200916T\TFS16_200902.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Wed Sep 16 13:18:40 2020
 Response via : Initial Calibration

CCAL FILE : 0:\Forensics\Data\Airlab16\2020\09\200916T\r1619115.D
 Sub List : Default-LCS-AP2 - All compounds listed

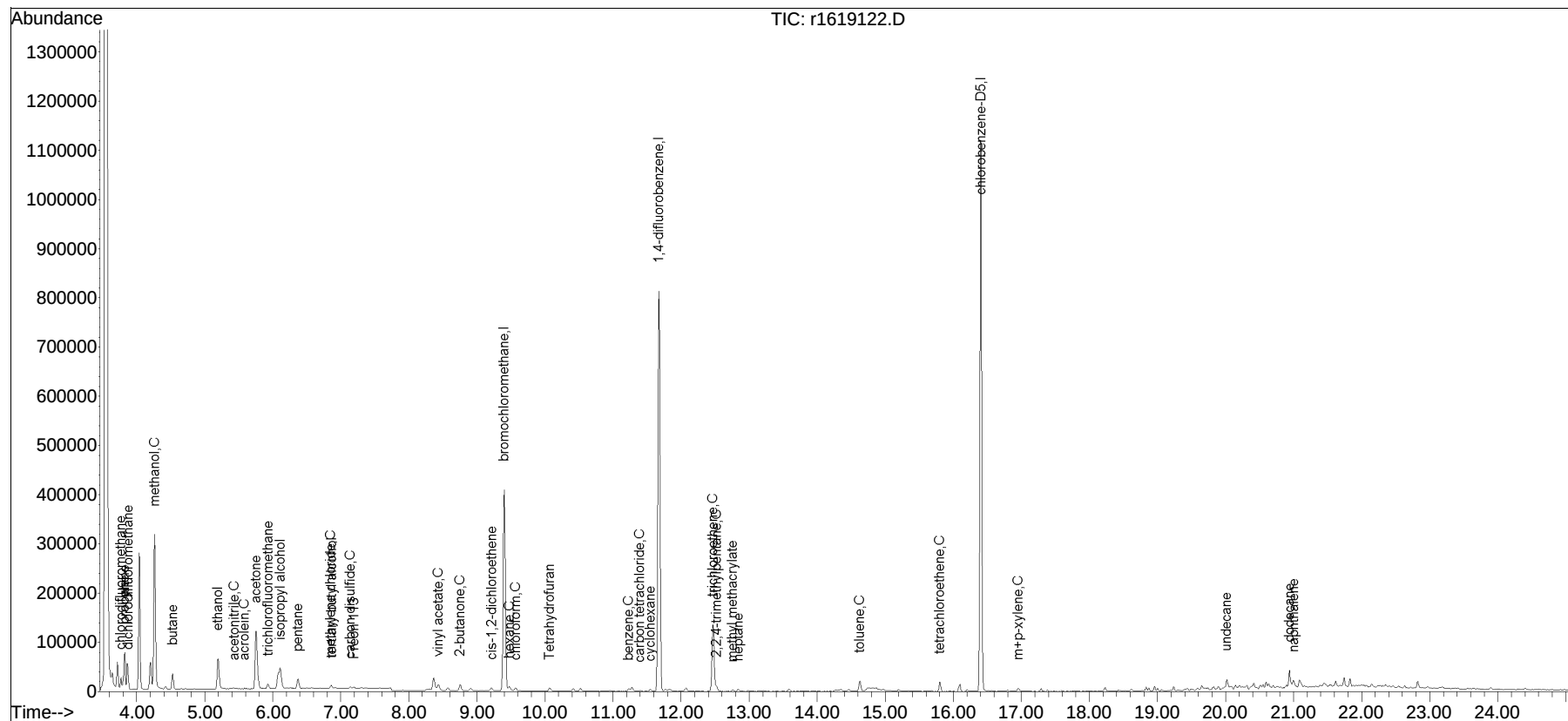
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) 1,1,1,2-tetrachloroethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.792		0	N.D.		
83) m+p-xylene	16.950	91	5490	0.075	ppbV	95
84) bromoform	0.000		0	N.D.		
85) styrene	17.283		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	17.383		0	N.D.		
88) 1,2,3-trichloropropane	0.000		0	N.D.		
89) nonane	17.583		0	N.D.		
91) isopropylbenzene	17.900		0	N.D.		
92) bromobenzene	0.000		0	N.D.		
93) 2-chlorotoluene	0.000		0	N.D.		
94) n-propylbenzene	18.425		0	N.D.		
95) 4-chlorotoluene	0.000		0	N.D.		
96) 4-ethyl toluene	18.467		0	N.D.		
97) 1,3,5-trimethylbenzene	18.525		0	N.D.		
98) tert-butylbenzene	18.867		0	N.D.		
99) 1,2,4-trimethylbenzene	18.875		0	N.D.		
100) decane	18.958		0	N.D.		
101) Benzyl Chloride	18.992		0	N.D.		
102) 1,3-dichlorobenzene	19.067		0	N.D.		
103) 1,4-dichlorobenzene	19.067		0	N.D.		
104) sec-butylbenzene	19.233		0	N.D.		
106) p-isopropyltoluene	19.233		0	N.D.		
107) 1,2-dichlorobenzene	19.358		0	N.D.		
108) n-butylbenzene	19.592		0	N.D.		
111) 1,2-dibromo-3-chloropr...	19.750		0	N.D.		
112) undecane	20.017	57	8489	0.115	ppbV	91
114) dodecane	20.942	57	12577	0.189	ppbV	89
115) 1,2,4-trichlorobenzene	20.883		0	N.D.		
116) naphthalene	21.000	128	9719	0.108	ppbV	99
117) 1,2,3-trichlorobenzene	21.250		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

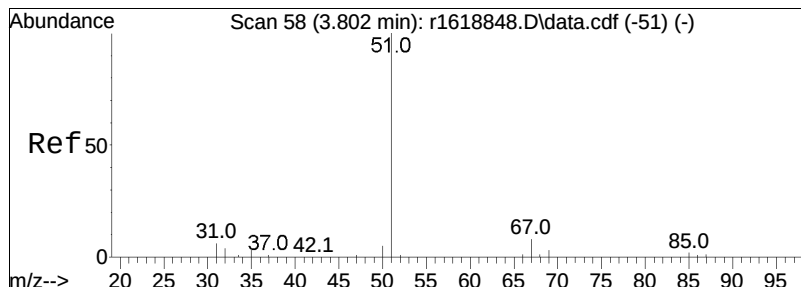
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listed916T\r1619115.D

Data Path : 0:\Forensics\Data\AirLab16\2020\09\200916T\
Data File : r1619122.D
Acq On : 16 Sep 2020 6:11 PM
Operator : AIRLAB16:TS
Sample : WG1410723-5,3,250,250
Misc : WG1410723,ICAL17102
ALS Vial : 0 Sample Multiplier: 1

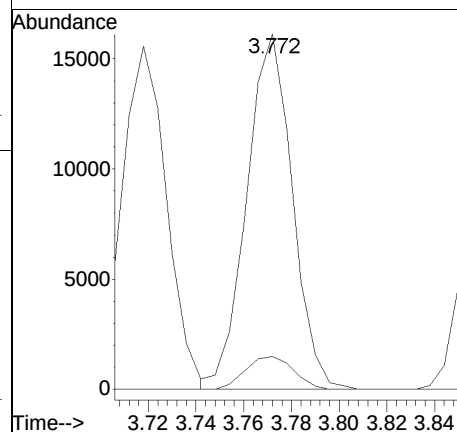
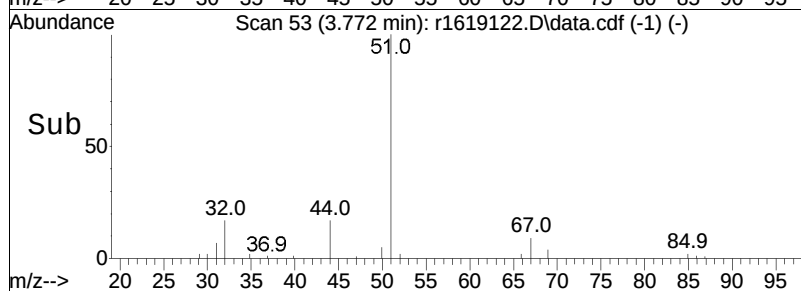
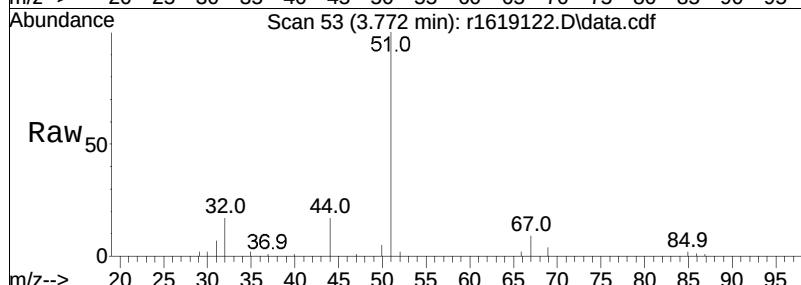
Quant Time: Sep 17 07:54:11 2020
Quant Method : 0:\Forensics\Data\AirLab16\2020\09\200916T\TFS16_200902.M
Quant Title : T0-14A/T0-15 SIM/Full Scan Analysis
QLast Update : Wed Sep 16 13:18:40 2020
Response via : Initial Calibration

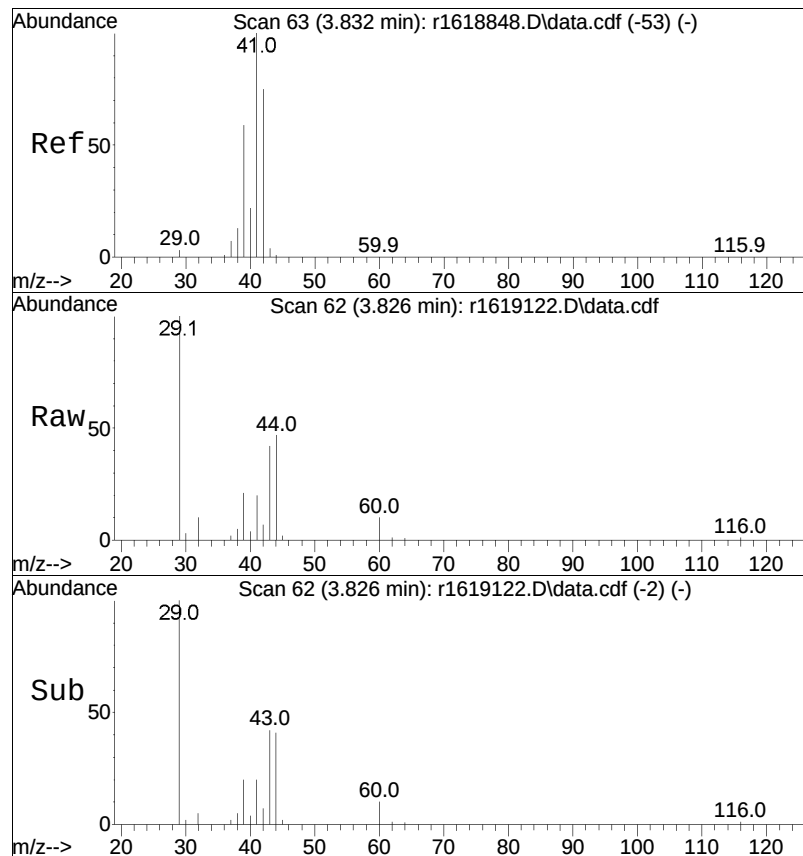




#2
 chlorodifluoromethane
 Concen: 0.99 ppbV
 RT: 3.772 min Scan# 53
 Delta R.T. 0.006 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

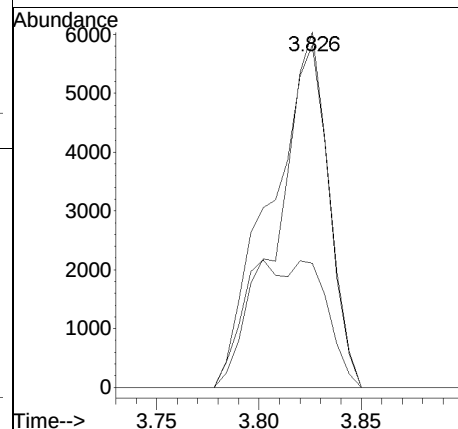
Tgt Ion: 51 Resp: 21415
 Ion Ratio Lower Upper
 51 100
 67 9.2 6.5 9.7

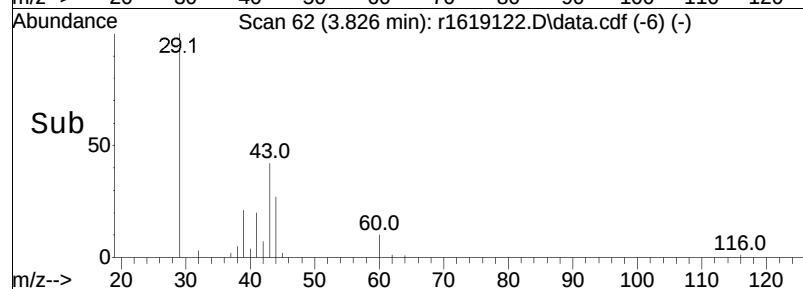
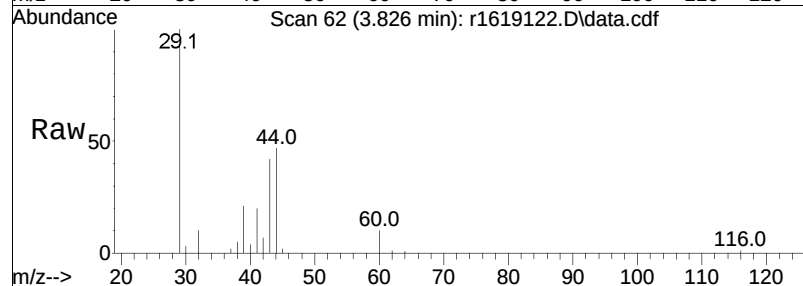
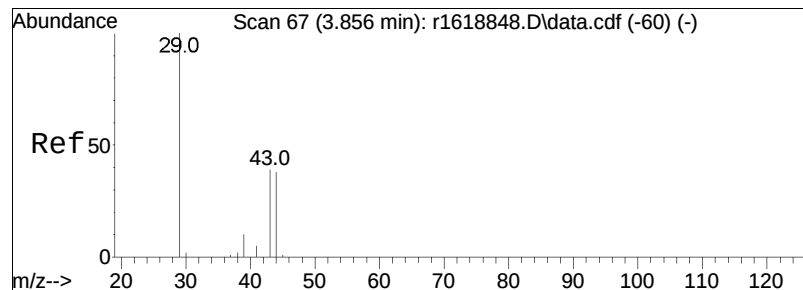




#3
propylene
Concen: 0.88 ppbV
RT: 3.826 min Scan# 62
Delta R.T. 0.030 min
Lab File: r1619122.D
Acq: 16 Sep 2020 6:11 PM

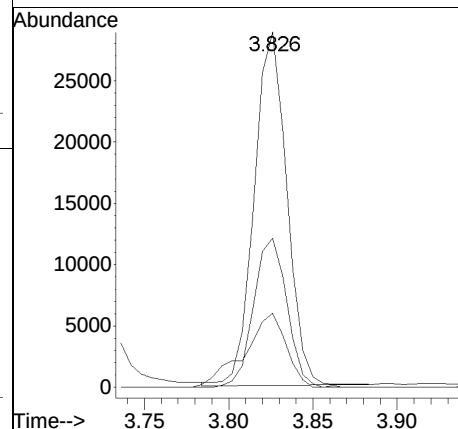
Tgt Ion	Ratio	Lower	Upper
41	100		
42	36.3	59.6	89.4#
39	103.8	47.2	70.8#

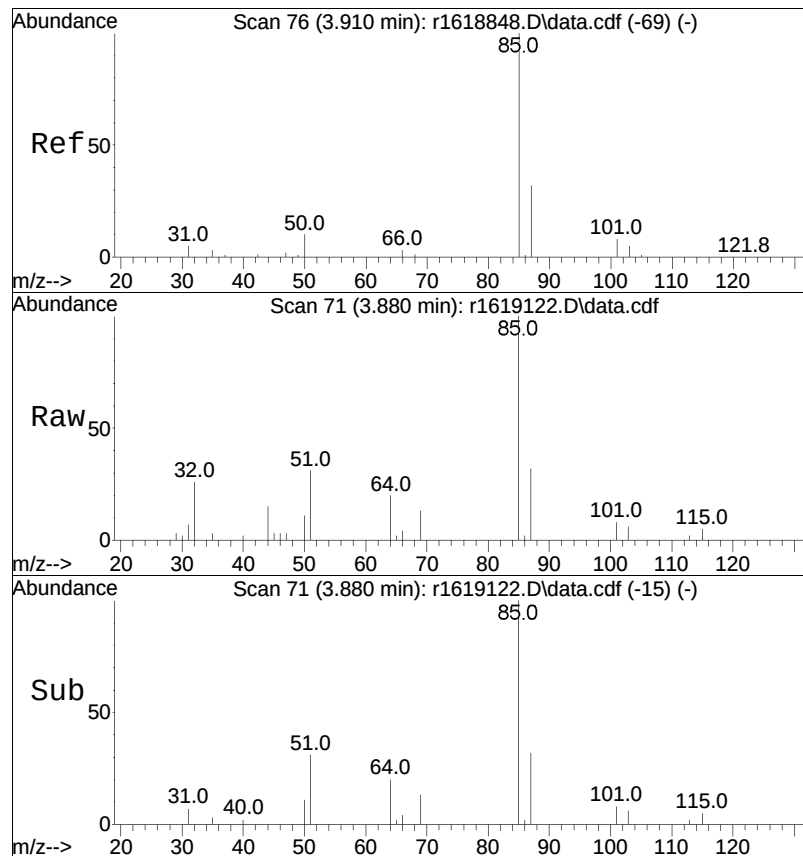




#4
propane
Concen: 2.62 ppbV
RT: 3.826 min Scan# 62
Delta R.T. 0.006 min
Lab File: r1619122.D
Acq: 16 Sep 2020 6:11 PM

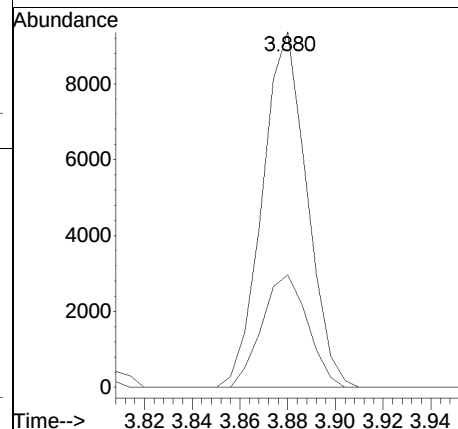
Tgt Ion	Ratio	Lower	Upper
29	100		
43	42.0	31.5	47.3
39	20.9	14.2	21.4

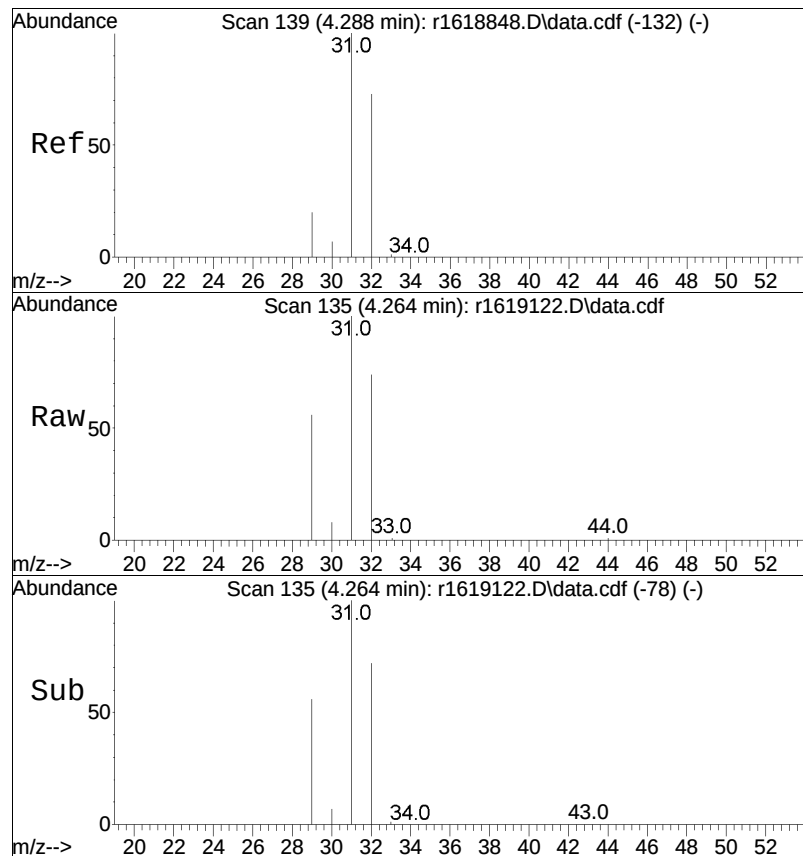




#5
dichlorodifluoromethane
Concen: 0.49 ppbV
RT: 3.880 min Scan# 71
Delta R.T. 0.006 min
Lab File: r1619122.D
Acq: 16 Sep 2020 6:11 PM

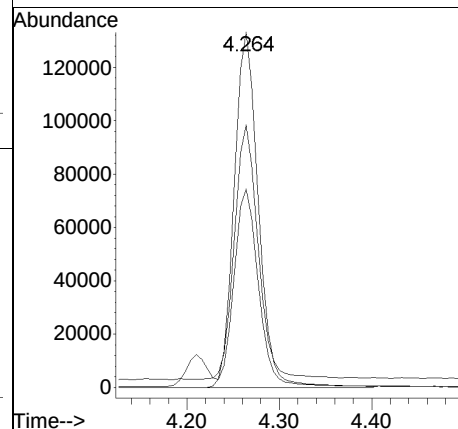
Tgt Ion:	85	87	Ratio	100	31.7	Resp:	12146	Lower	Upper
								25.4	38.2

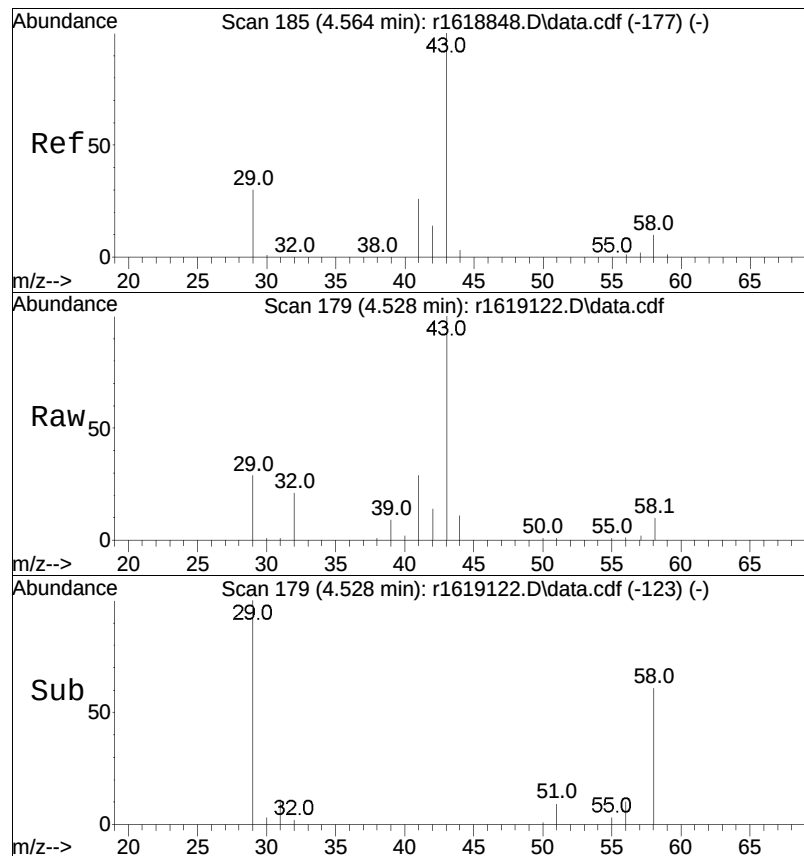




#8
 methanol
 Concen: 44.49 ppbV
 RT: 4.264 min Scan# 135
 Delta R.T. 0.012 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

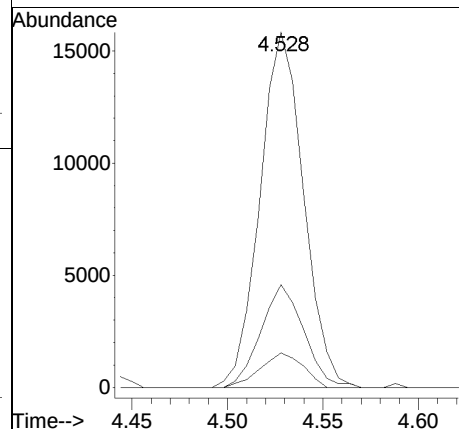
Tgt	Ion: 31	Resp:	243392
Ion	Ratio	Lower	Upper
31	100		
32	73.9	58.9	88.3
29	55.9	46.7	70.1

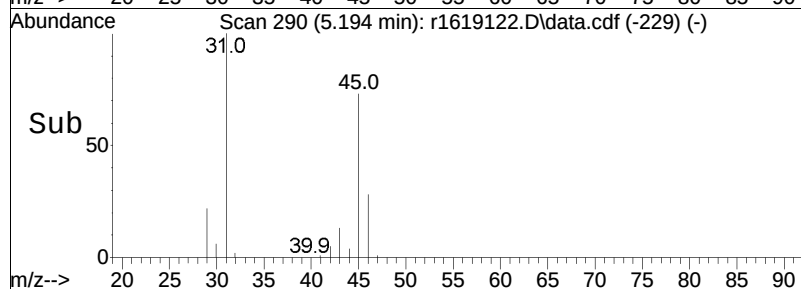
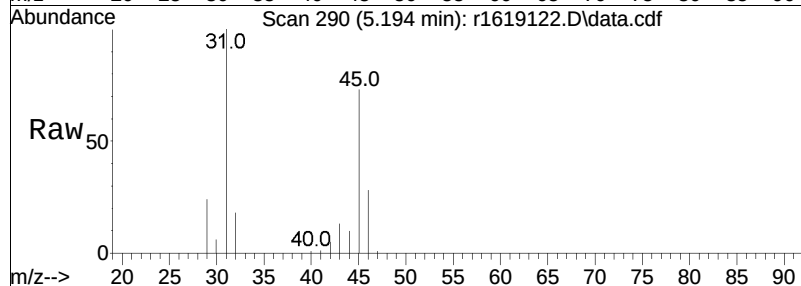
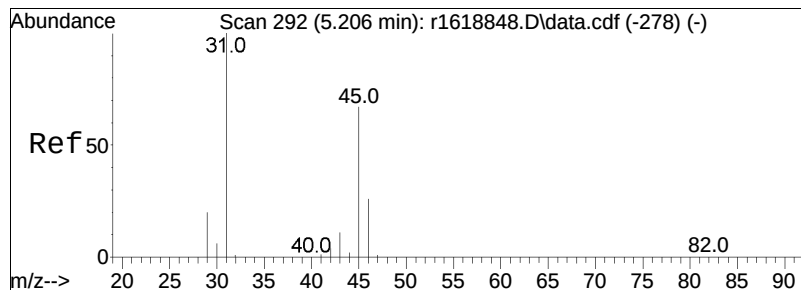




#11
 butane
 Concen: 0.95 ppbV
 RT: 4.528 min Scan# 179
 Delta R.T. 0.006 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

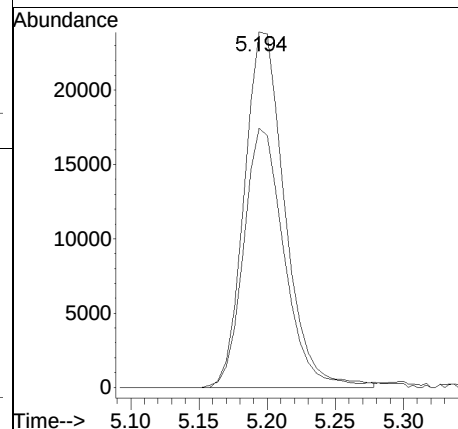
Tgt Ion:	43	Resp:	25103
Ion Ratio	Lower	Upper	
43	100		
58	9.7	7.8	11.6
41	28.9	21.1	31.7

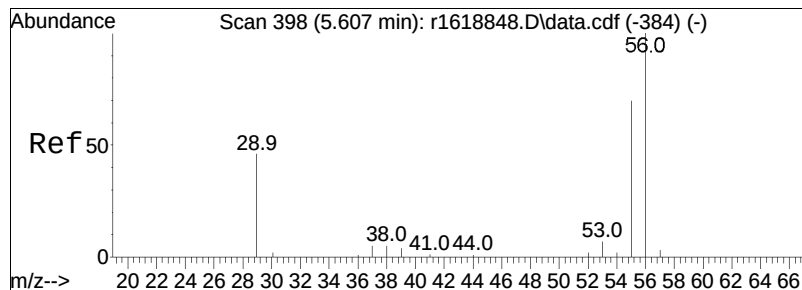




#15
ethanol
Concen: 5.28 ppbV
RT: 5.194 min Scan# 290
Delta R.T. 0.036 min
Lab File: r1619122.D
Acq: 16 Sep 2020 6:11 PM

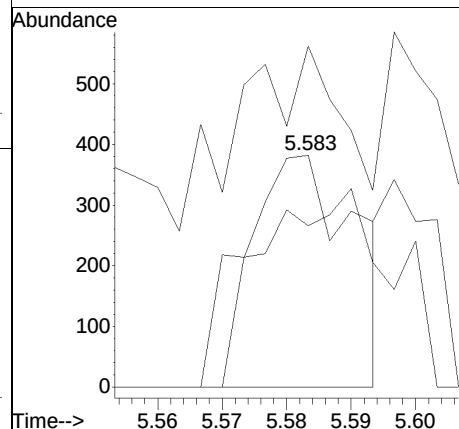
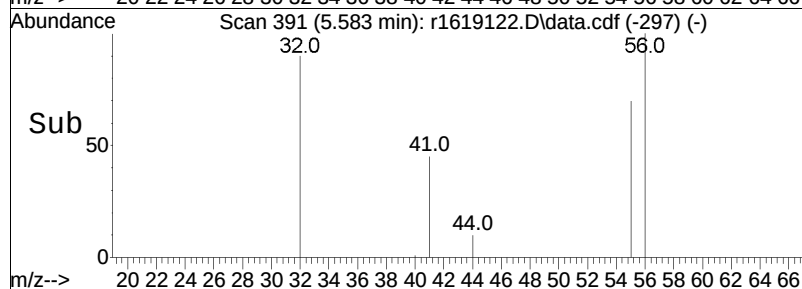
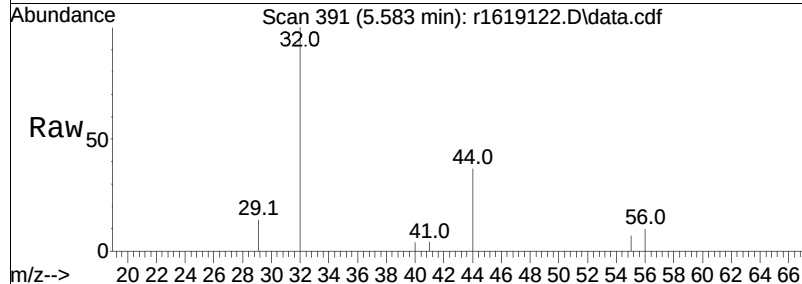
Tgt	Ion	Ratio	Lower	Upper
31	100			
45	72.9	54.0	81.0	

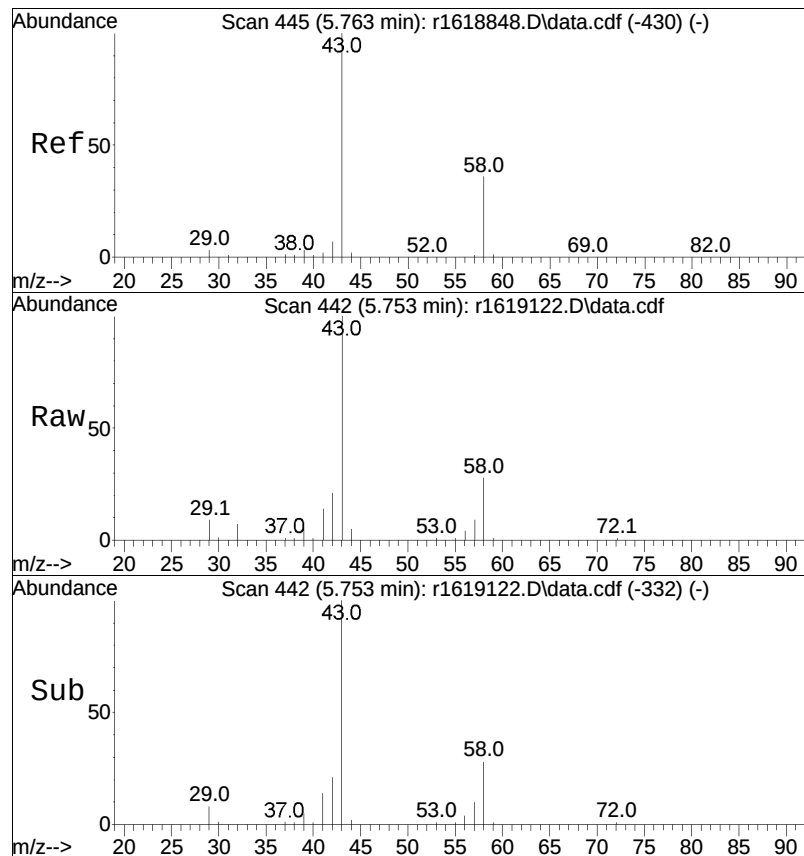




#18
acrolein
Concen: 0.07 ppbV
RT: 5.583 min Scan# 391
Delta R.T. 0.020 min
Lab File: r1619122.D
Acq: 16 Sep 2020 6:11 PM

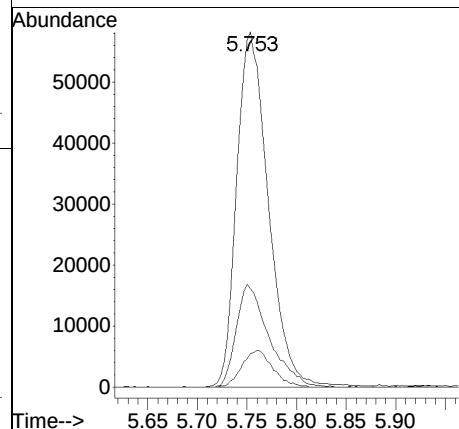
Tgt	Ion	Ratio	Lower	Upper
56	100			
55	69.6	56.0	84.0	
29	147.1	37.4	56.0#	

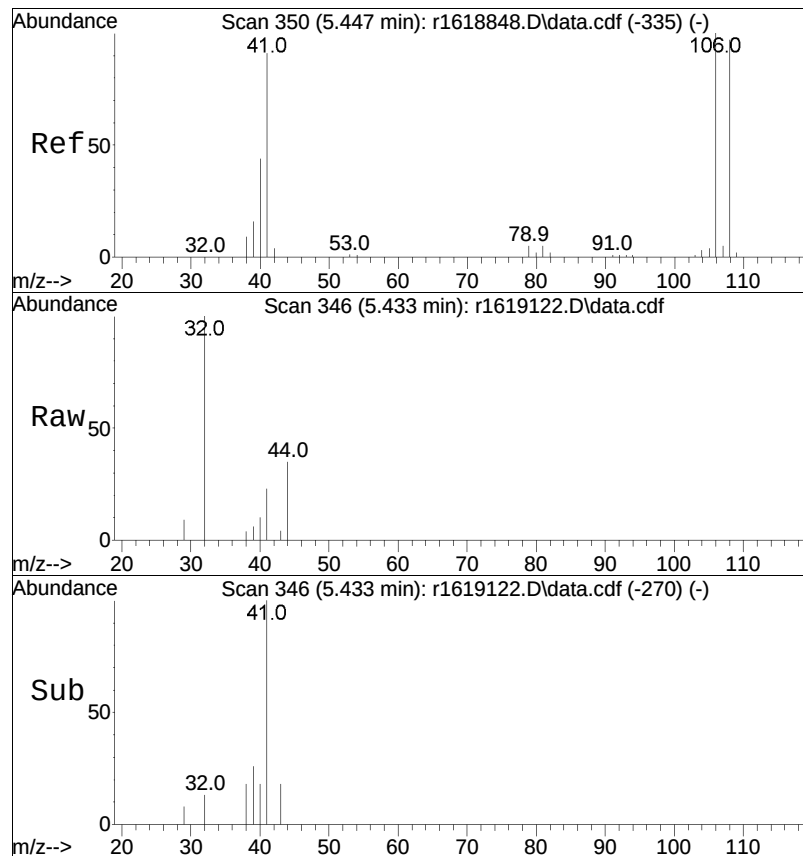




#19
acetone
Concen: 5.73 ppbV
RT: 5.753 min Scan# 442
Delta R.T. 0.037 min
Lab File: r1619122.D
Acq: 16 Sep 2020 6:11 PM

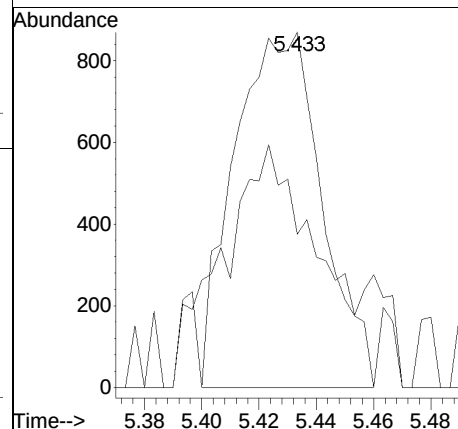
Tgt Ion:	43	Resp:	129752
Ion Ratio	Lower	Upper	
43	100		
58	27.8	28.9	43.3#
57	9.5	0.7	1.1#

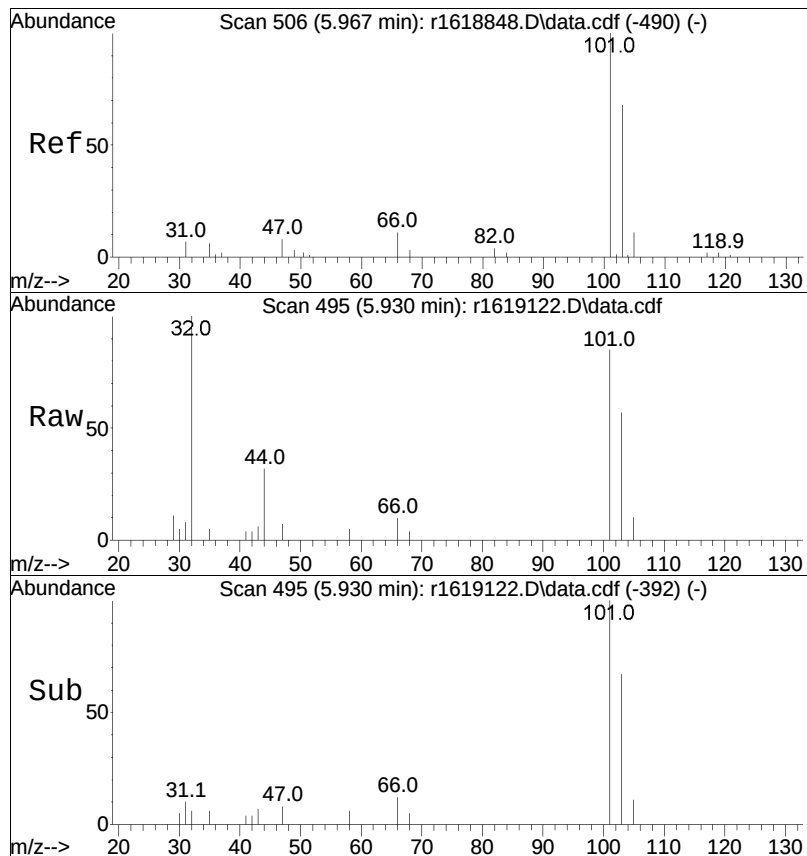




#20
 acetonitrile
 Concen: 0.14 ppbV
 RT: 5.433 min Scan# 346
 Delta R.T. 0.030 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

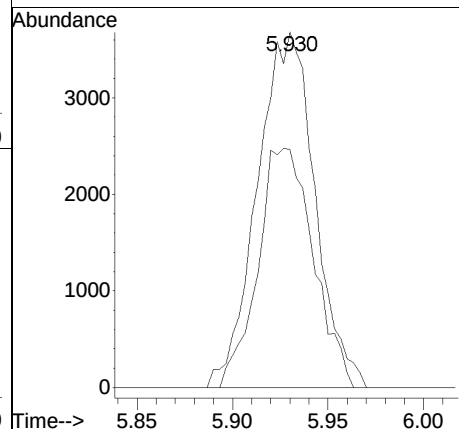
Tgt Ion:	41	Resp:	1842
Ion Ratio	100	Lower	Upper
40	43.1	39.0	58.4

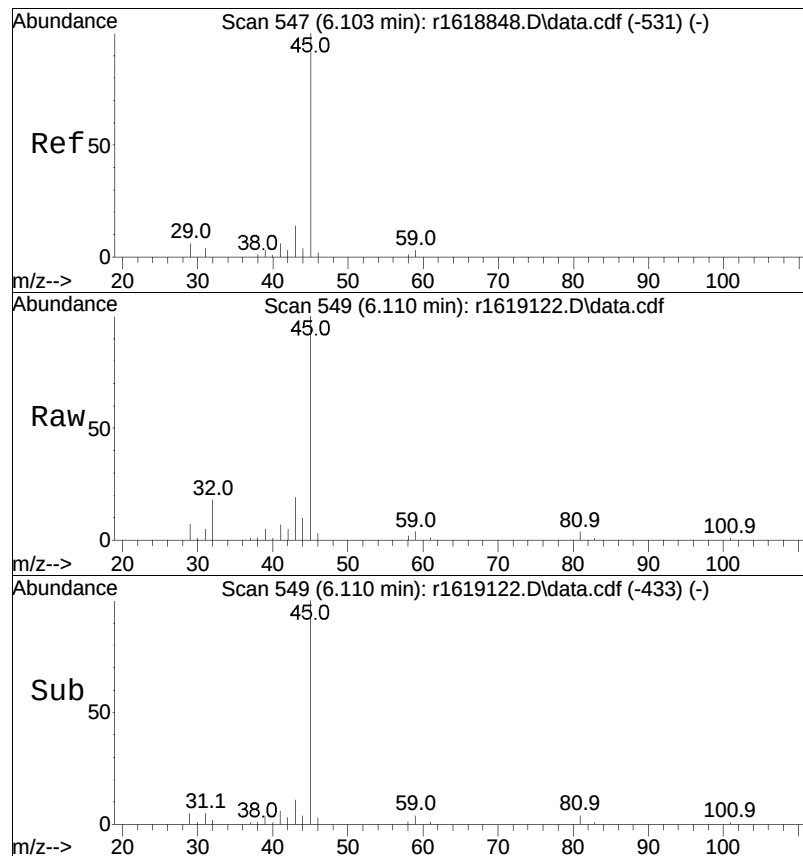




#21
trichlorofluoromethane
Concen: 0.38 ppbV
RT: 5.930 min Scan# 495
Delta R.T. 0.013 min
Lab File: r1619122.D
Acq: 16 Sep 2020 6:11 PM

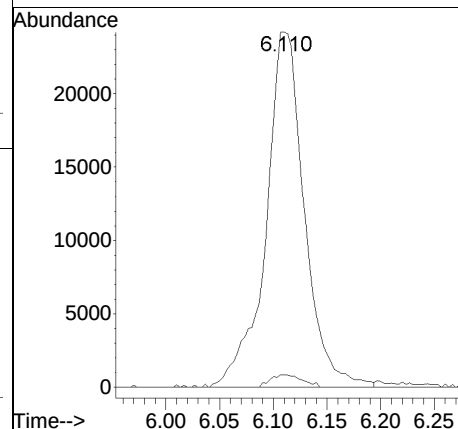
Tgt	Ion	Ratio	Lower	Upper
101	100			
103	67.0	54.6	82.0	

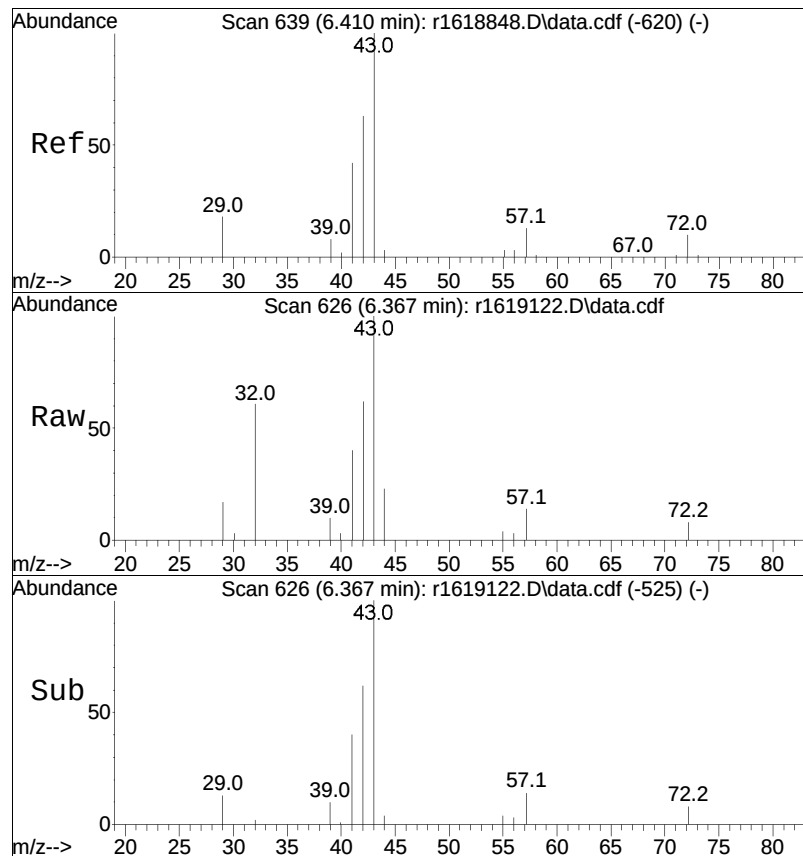




#22
isopropyl alcohol
Concen: 2.11 ppbV
RT: 6.110 min Scan# 549
Delta R.T. 0.057 min
Lab File: r1619122.D
Acq: 16 Sep 2020 6:11 PM

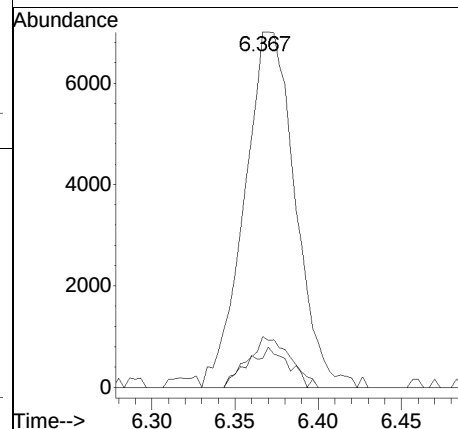
Tgt	Ion	Ratio	Lower	Upper
45	100			
59	3.6	2.7	4.1	

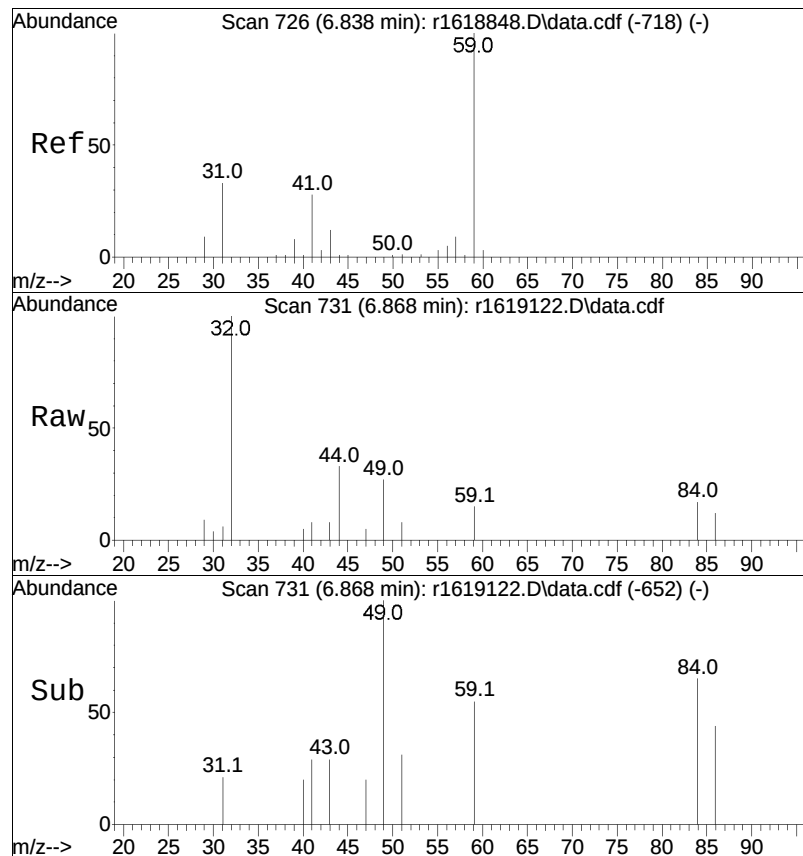




#24
 pentane
 Concen: 0.54 ppbV
 RT: 6.367 min Scan# 626
 Delta R.T. 0.007 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

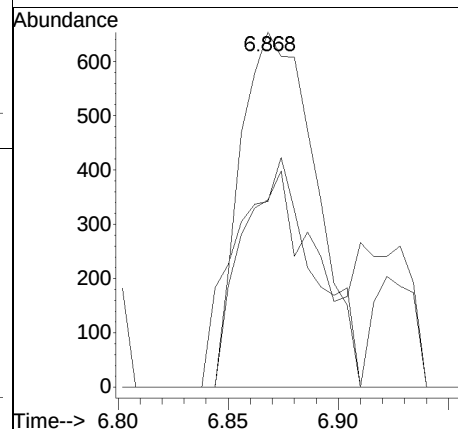
Tgt Ion:	43	Resp:	14932
Ion Ratio	Lower	Upper	
43	100		
57	14.3	10.2	15.4
72	8.2	7.6	11.4

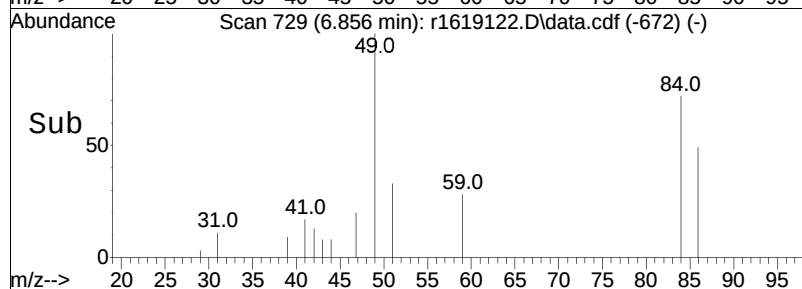
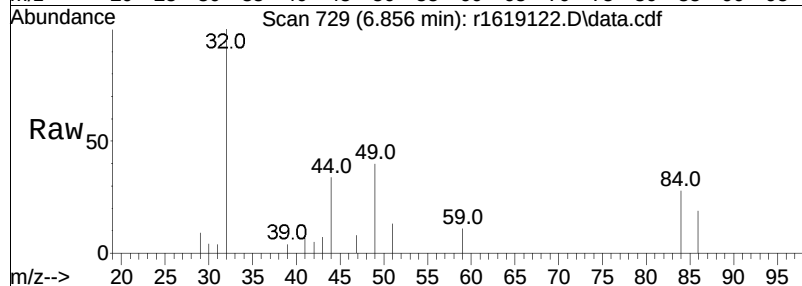
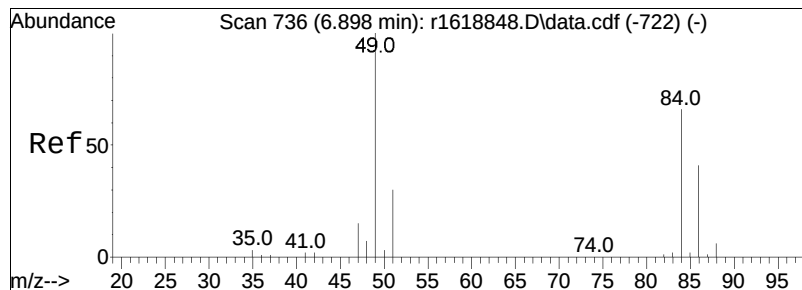




#27
 tertiary butyl alcohol
 Concen: 0.07 ppbV
 RT: 6.868 min Scan# 731
 Delta R.T. 0.084 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

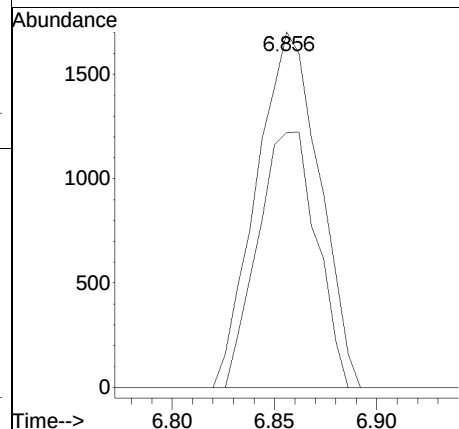
Tgt Ion	Ratio	Lower	Upper
59	100		
41	52.8	22.4	33.6#
43	52.3	10.2	15.2#

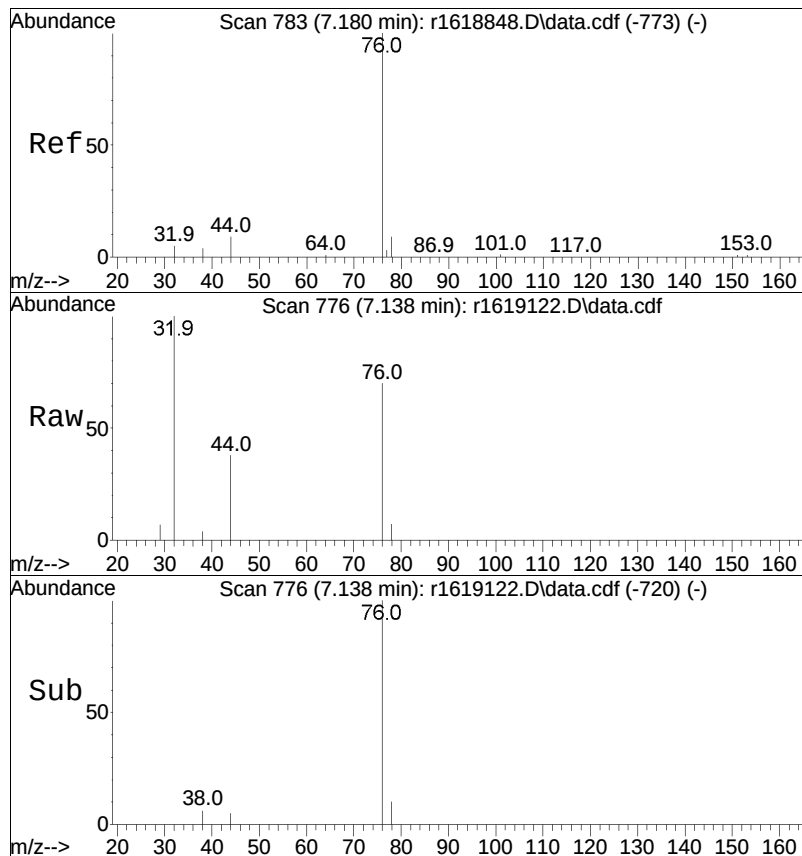




#28
 methylene chloride
 Concen: 0.20 ppbV
 RT: 6.856 min Scan# 729
 Delta R.T. 0.006 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

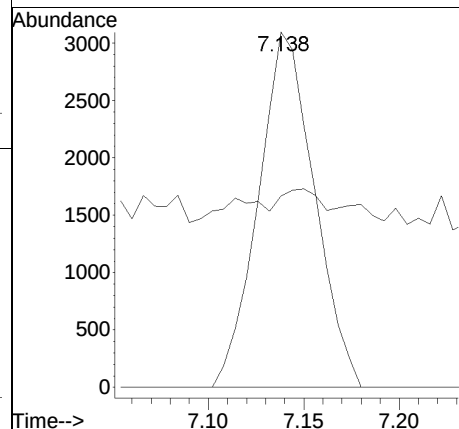
Tgt Ion:	49	84	Ratio	Lower	Upper
Resp:	3659				
Ion Ratio	100	71.7			
		53.2			
				79.8	

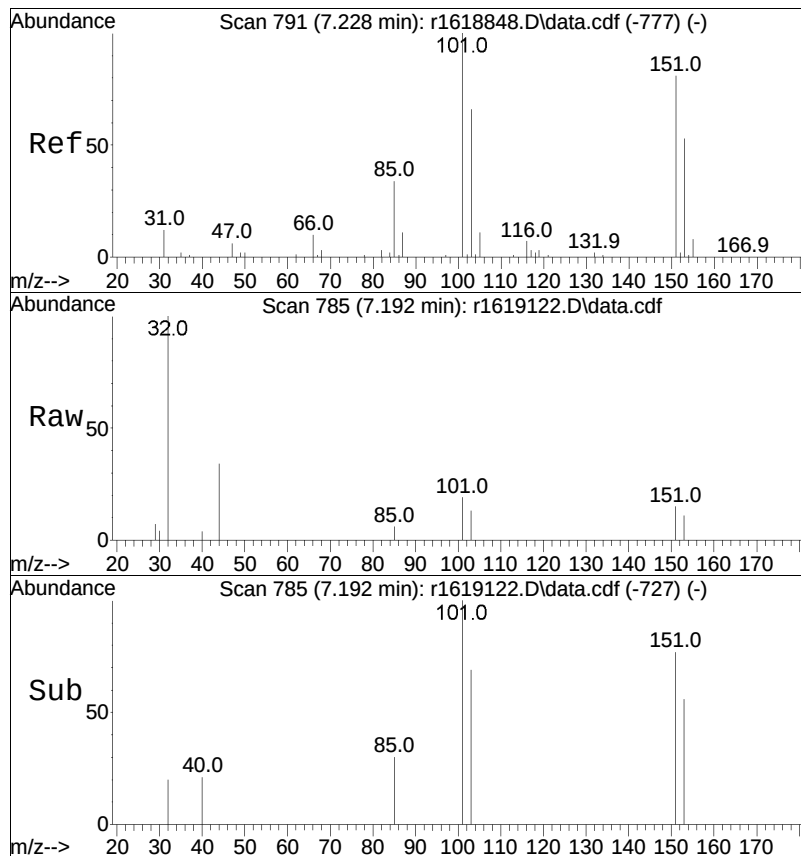




#30
 carbon disulfide
 Concen: 0.13 ppbV
 RT: 7.138 min Scan# 776
 Delta R.T. 0.006 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

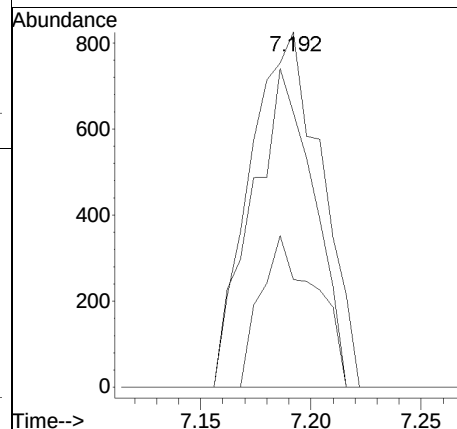
Tgt Ion	Ratio	Lower	Upper
76	100		
44	53.9	7.7	11.5#

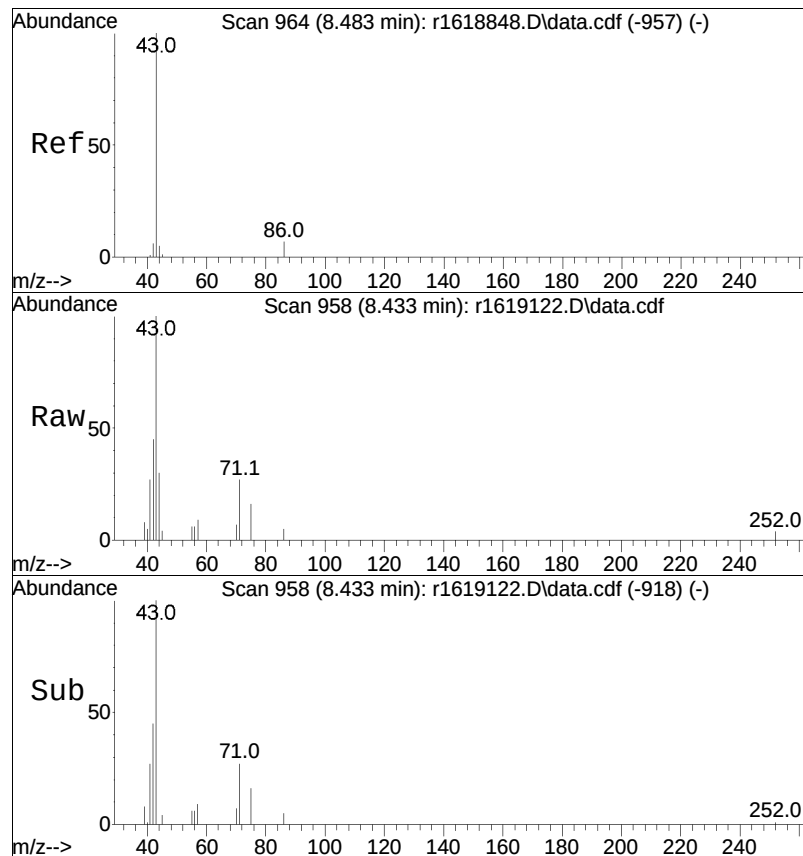




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 7.192 min Scan# 785
 Delta R.T. 0.018 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

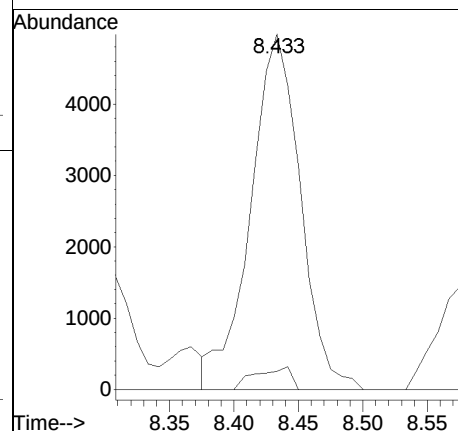
Tgt	Ion:101	Resp:	1858
Ion	Ratio	Lower	Upper
101	100		
85	30.3	27.5	41.3
151	77.3	65.1	97.7

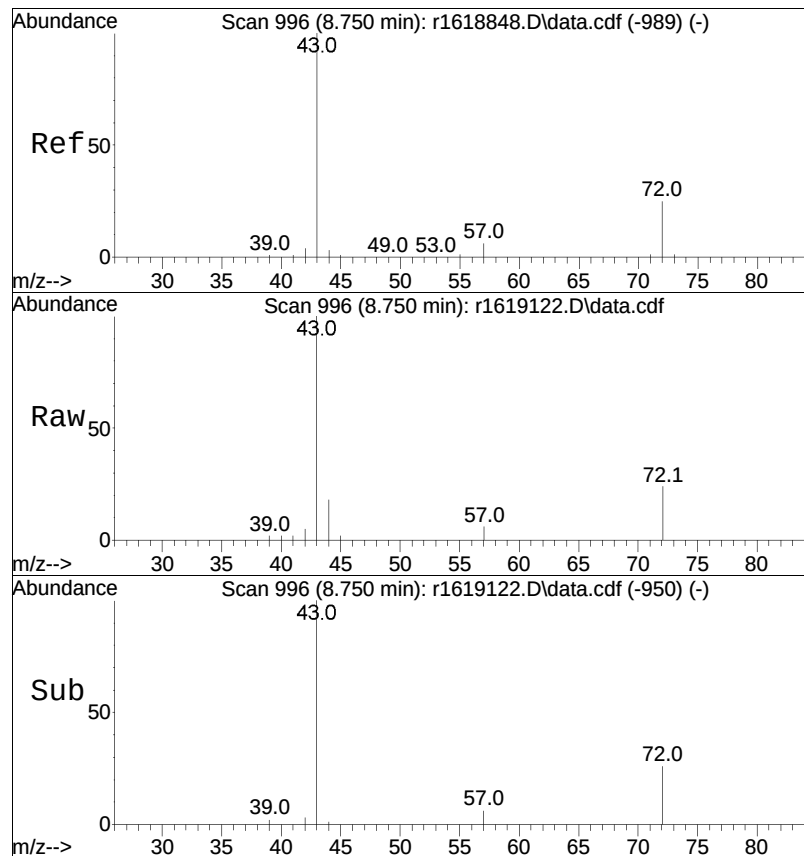




#35
 vinyl acetate
 Concen: 0.36 ppbV
 RT: 8.433 min Scan# 958
 Delta R.T. 0.000 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

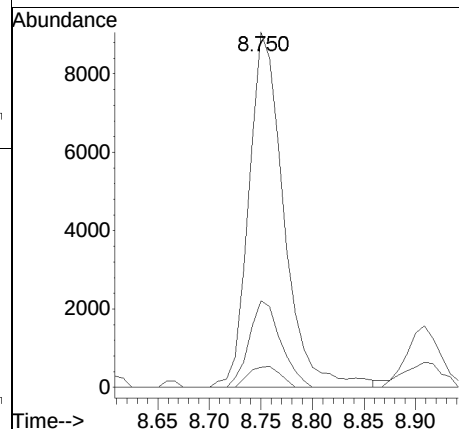
Tgt	Ion	Ratio	Lower	Upper
43	100			
86	5.1	5.9	8.9#	

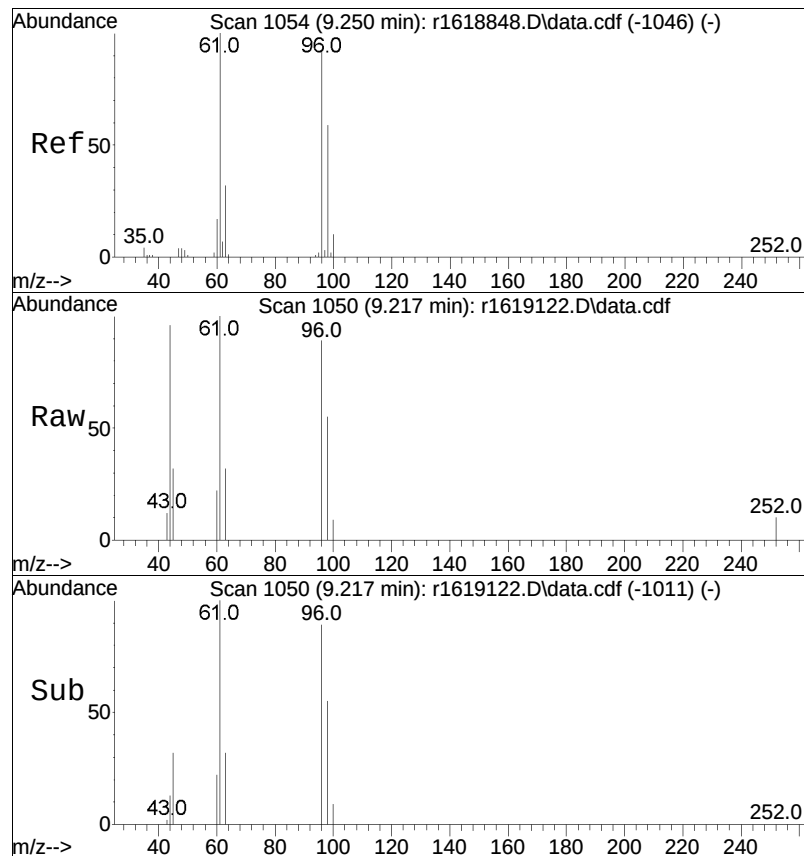




#36
 2-butanone
 Concen: 0.60 ppbV
 RT: 8.750 min Scan# 996
 Delta R.T. 0.050 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

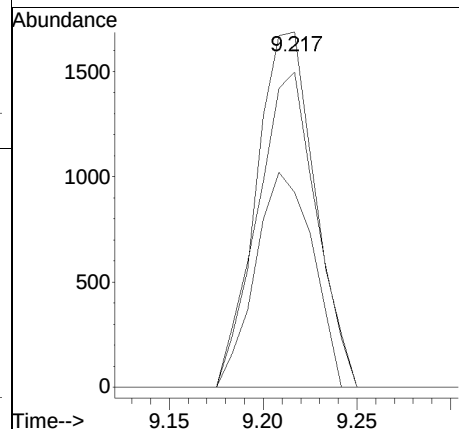
Tgt	Ion	Ratio	Resp	Lower	Upper
43	100		21440		
72	24.4	19.8		29.6	
57	5.6	4.6		6.8	

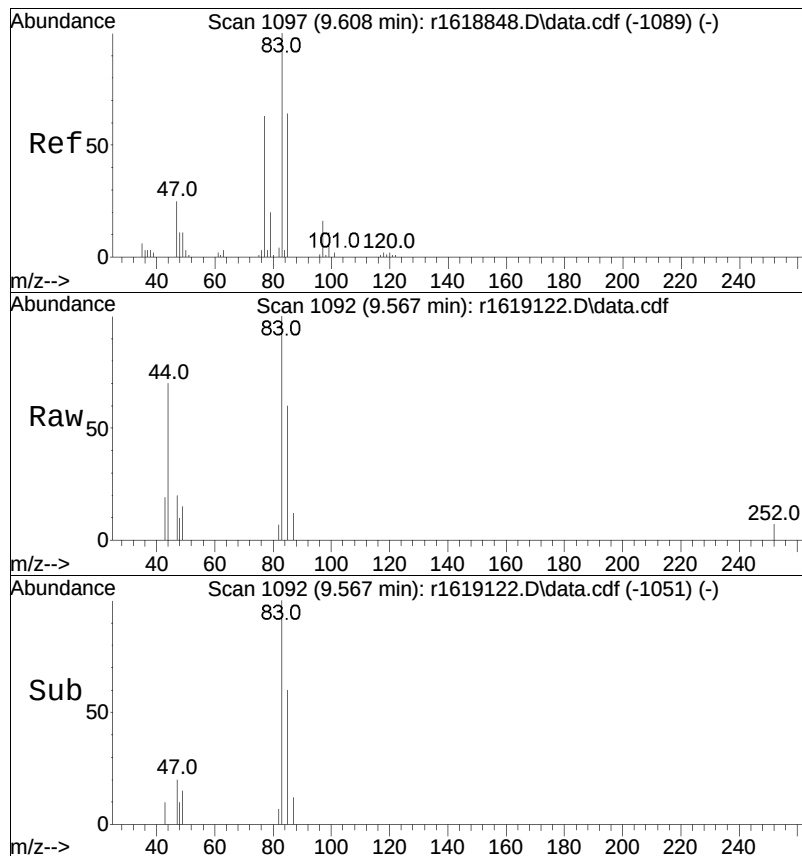




#37
 cis-1,2-dichloroethene
 Concen: 0.22 ppbV
 RT: 9.217 min Scan# 1050
 Delta R.T. 0.008 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

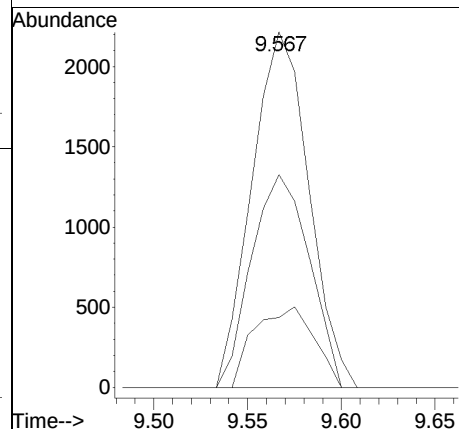
Tgt Ion:	61	Resp:	3684
Ion Ratio	Lower	Upper	
61	100		
96	88.8	74.1	111.1
98	54.9	47.4	71.0

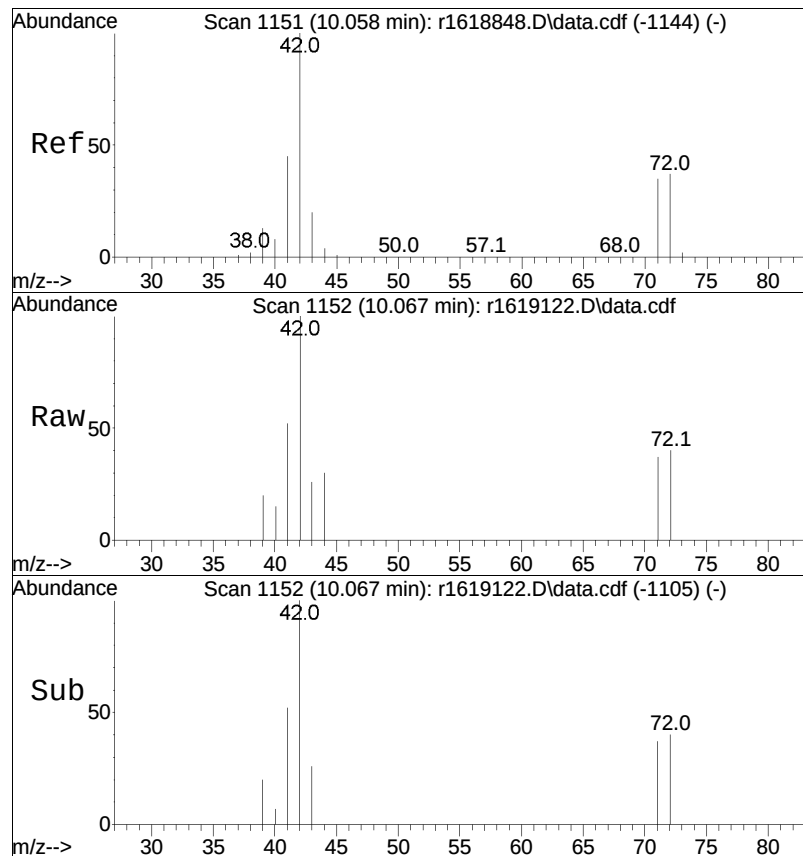




#39
chloroform
Concen: 0.19 ppbV
RT: 9.567 min Scan# 1092
Delta R.T. 0.008 min
Lab File: r1619122.D
Acq: 16 Sep 2020 6:11 PM

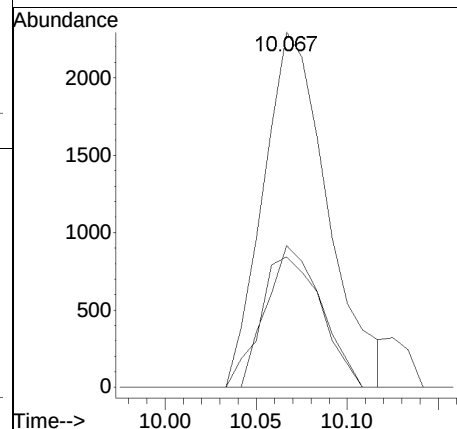
Tgt	Ion	Ratio	Resp	Lower	Upper
83	100		4687		
85	59.9	51.5		77.3	
47	19.7	20.1		30.1	

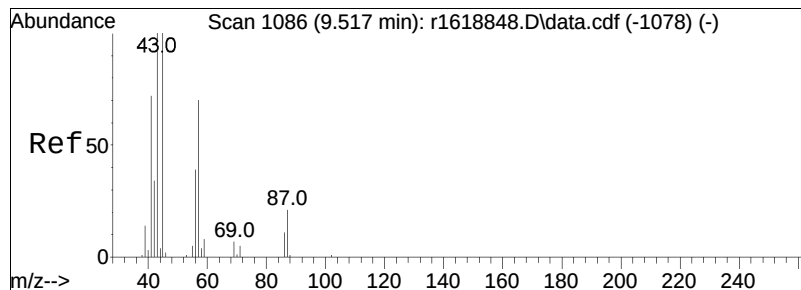




#40
 Tetrahydrofuran
 Concen: 0.22 ppbV m
 RT: 10.067 min Scan# 1152
 Delta R.T. 0.058 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

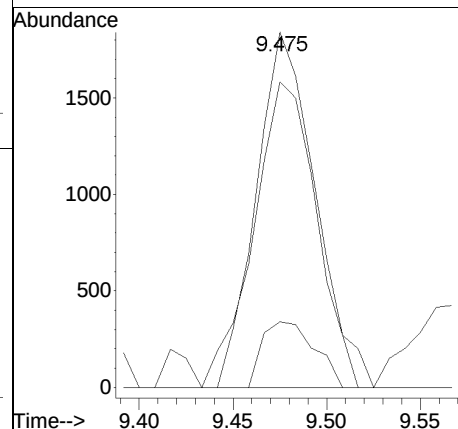
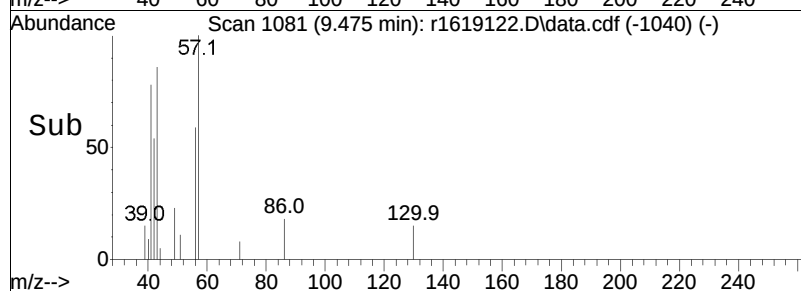
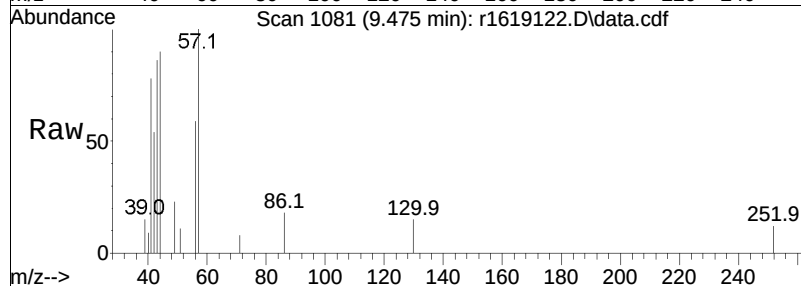
Tgt Ion	Ratio	Lower	Upper
42	100		
71	36.8	28.2	42.2
72	39.9	29.9	44.9

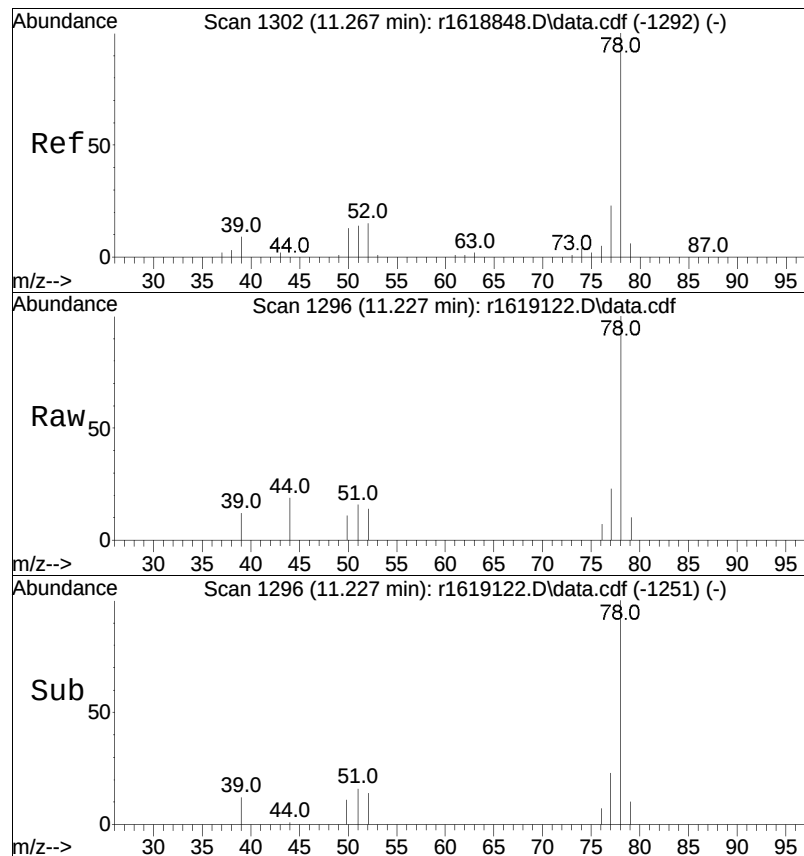




#44
hexane
Concen: 0.14 ppbV
RT: 9.475 min Scan# 1081
Delta R.T. 0.008 min
Lab File: r1619122.D
Acq: 16 Sep 2020 6:11 PM

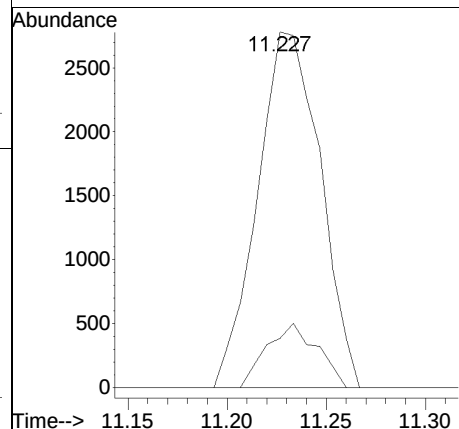
Tgt Ion	Ratio	Lower	Upper
57	100		
43	86.0	114.4	171.6#
86	18.5	12.6	18.8

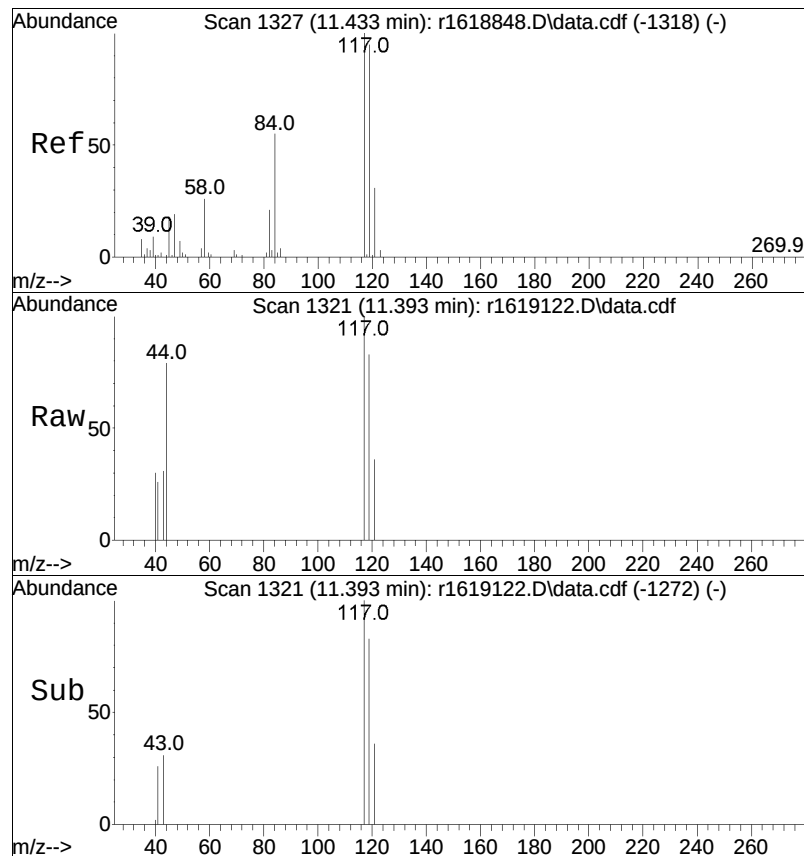




#50
benzene
Concen: 0.10 ppbV
RT: 11.227 min Scan# 1296
Delta R.T. 0.007 min
Lab File: r1619122.D
Acq: 16 Sep 2020 6:11 PM

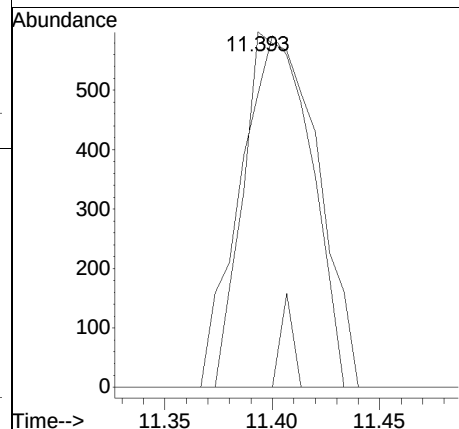
Tgt	Ion	Ratio	Lower	Upper
78	100			
52	13.8		11.8	17.6

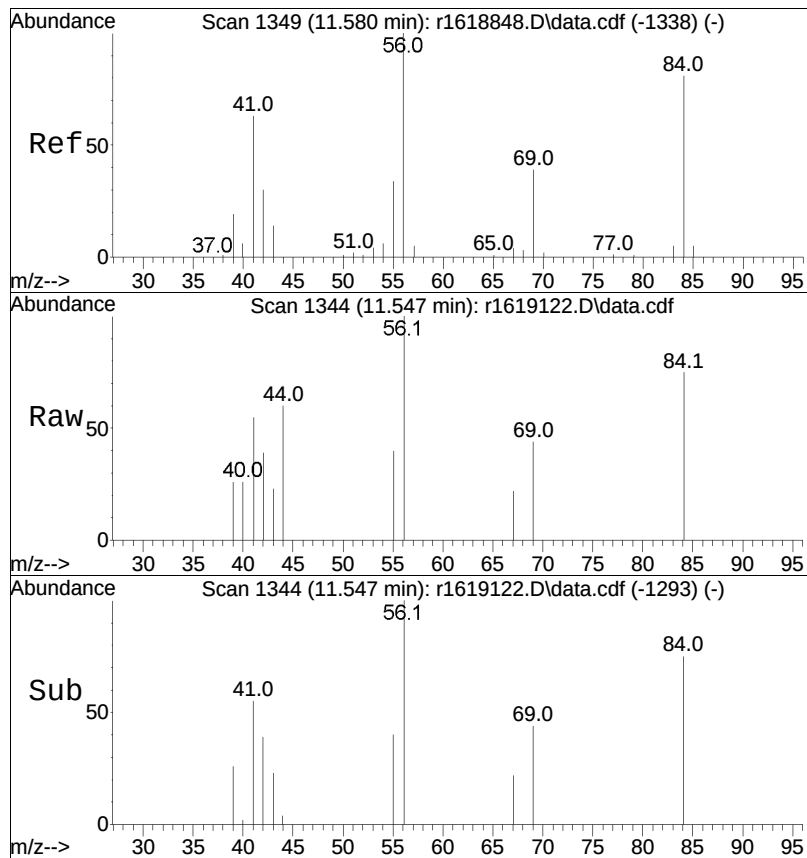




#52
 carbon tetrachloride
 Concen: 0.06 ppbV
 RT: 11.393 min Scan# 1321
 Delta R.T. 0.000 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

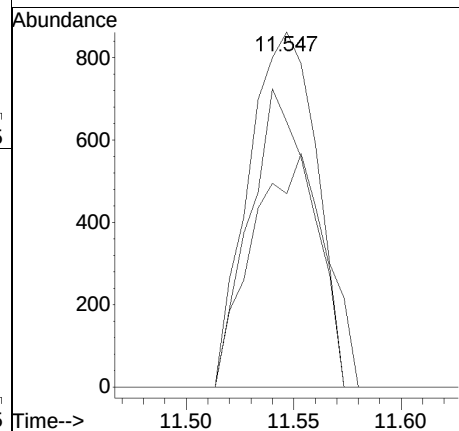
Tgt Ion:	117	Resp:	1421
Ion Ratio	Lower	Upper	
117	100		
119	82.8	75.8	113.8
82	0.0	16.5	24.7#

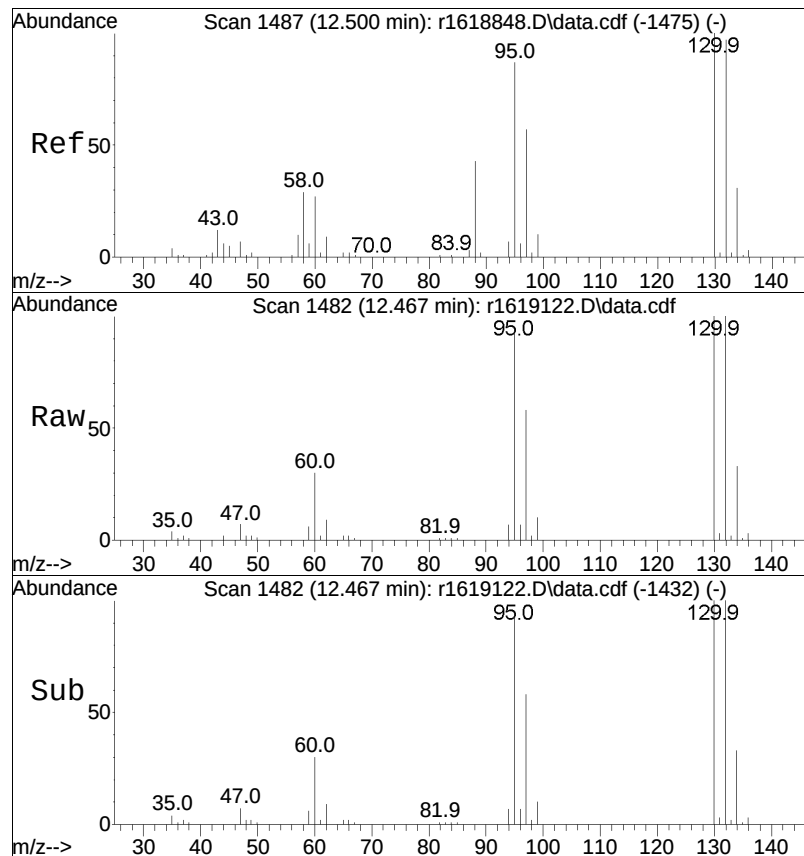




#53
cyclohexane
Concen: 0.07 ppbV
RT: 11.547 min Scan# 1344
Delta R.T. 0.013 min
Lab File: r1619122.D
Acq: 16 Sep 2020 6:11 PM

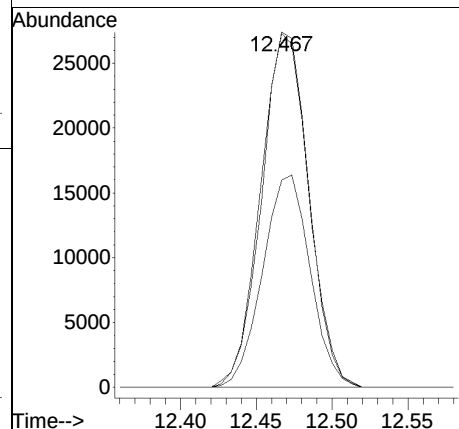
Tgt	Ion	Ratio	Lower	Upper
56	100			
84	74.7	64.6	96.8	
41	54.5	50.5	75.7	

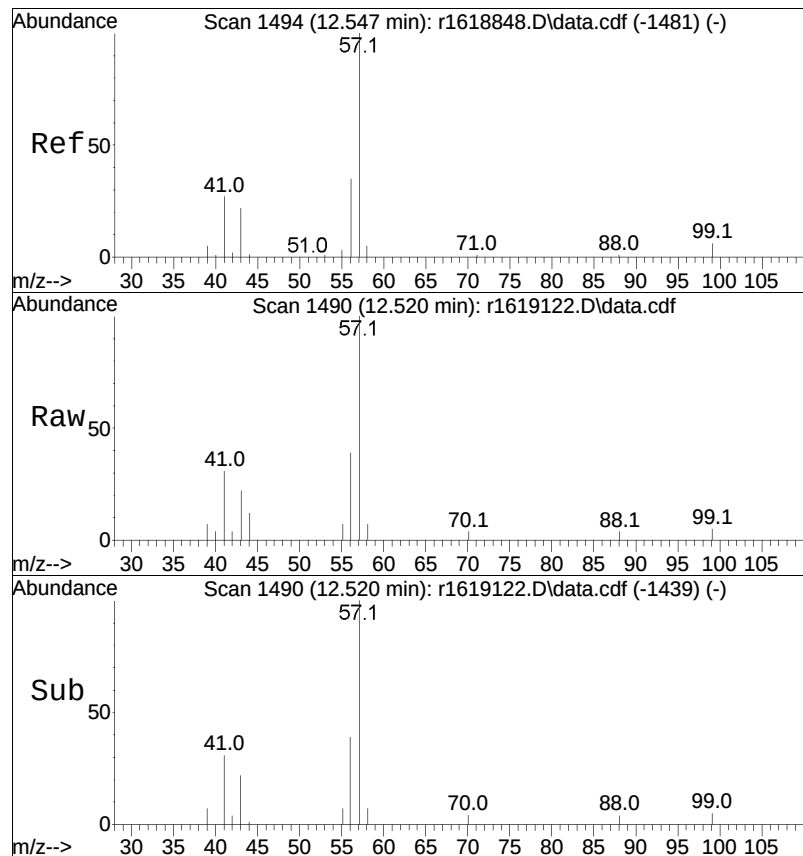




#59
trichloroethene
Concen: 2.32 ppbV
RT: 12.467 min Scan# 1482
Delta R.T. 0.007 min
Lab File: r1619122.D
Acq: 16 Sep 2020 6:11 PM

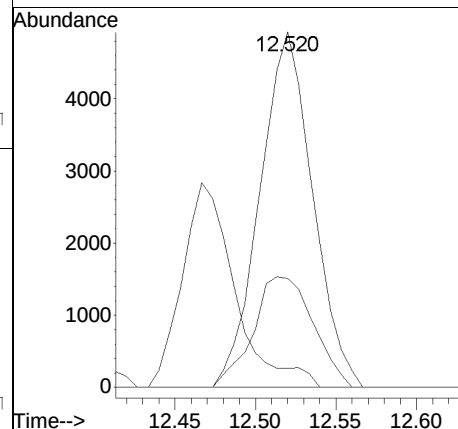
Tgt Ion:	130	Resp:	60383
Ion Ratio	Lower	Upper	
130	100		
132	99.6	77.4	116.2
97	58.3	45.5	68.3

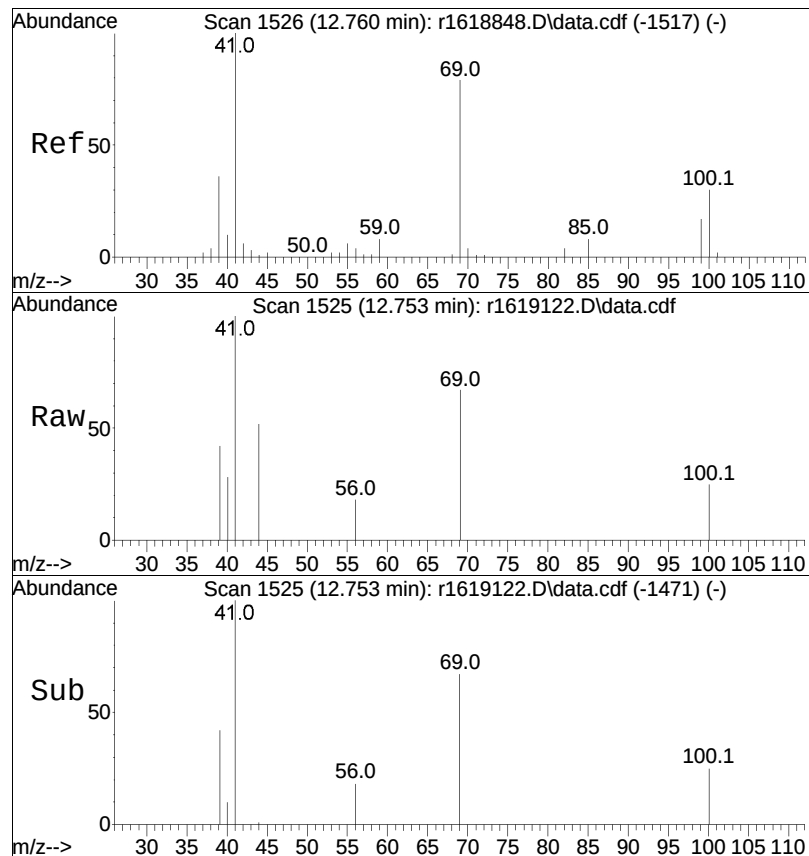




#60
 2,2,4-trimethylpentane
 Concen: 0.12 ppbV
 RT: 12.520 min Scan# 1490
 Delta R.T. 0.013 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

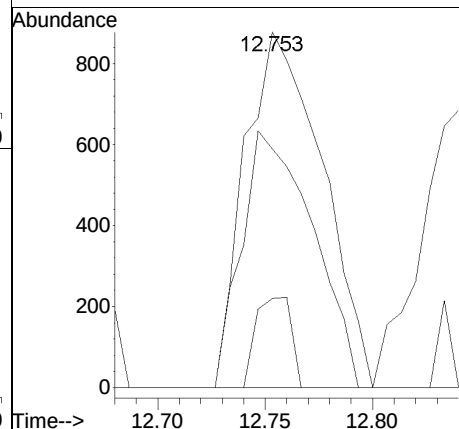
Tgt	Ion	Ratio	Lower	Upper
57	100			
99	5.4	4.9	7.3	
41	30.6	21.9	32.9	

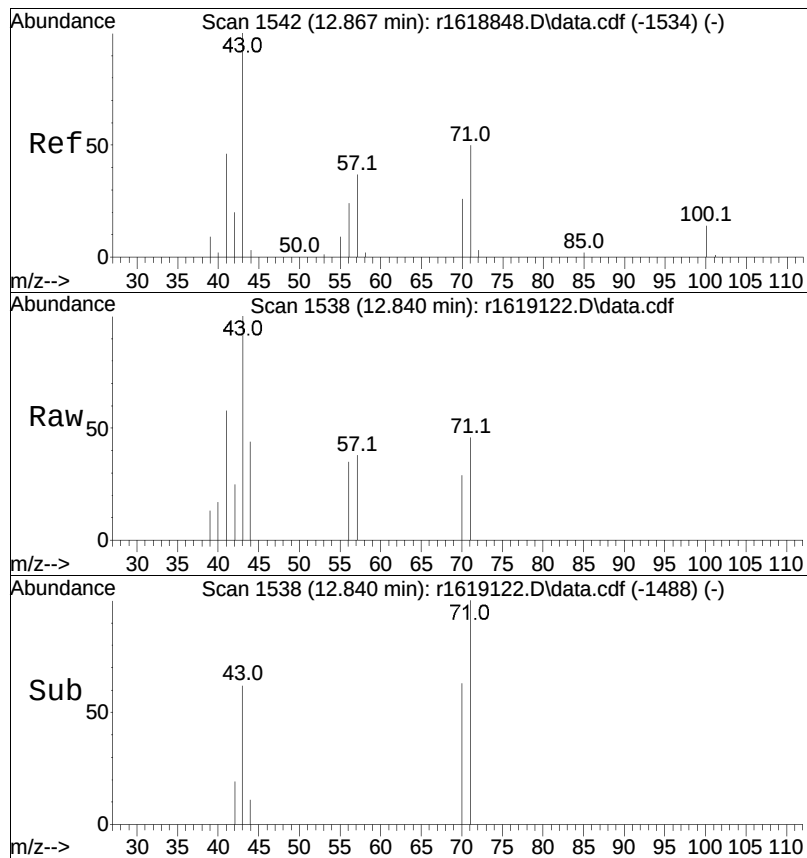




#61
 methyl methacrylate
 Concen: 0.06 ppbV
 RT: 12.753 min Scan# 1525
 Delta R.T. 0.033 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

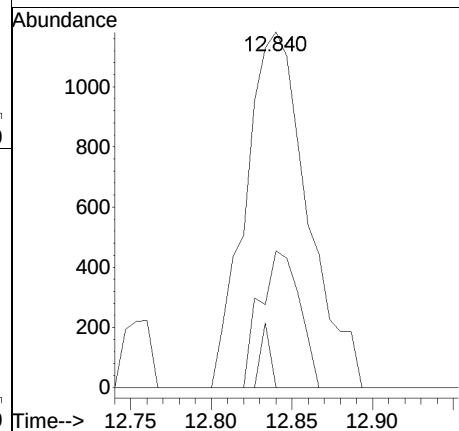
Tgt	Ion: 41	Resp:	2197
Ion	Ratio	Lower	Upper
41	100		
69	66.6	62.8	94.2
100	11.6	23.3	34.9#

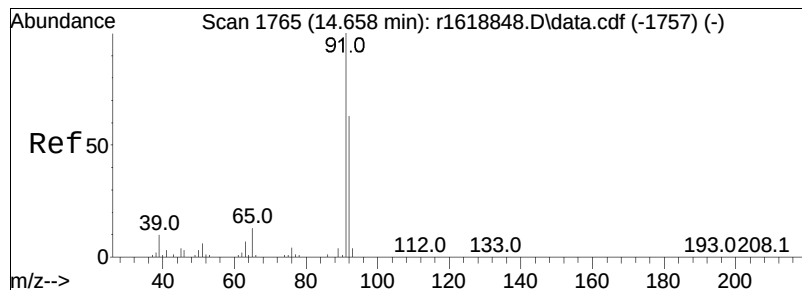




#62
 heptane
 Concen: 0.07 ppbV
 RT: 12.840 min Scan# 1538
 Delta R.T. 0.007 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

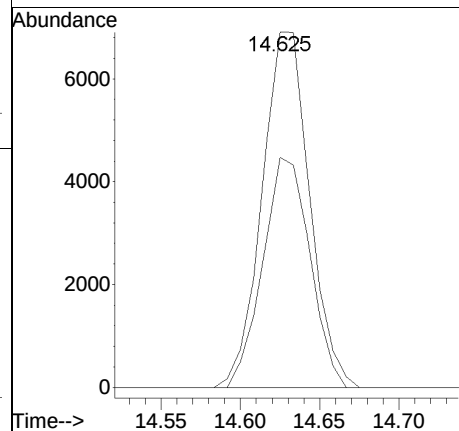
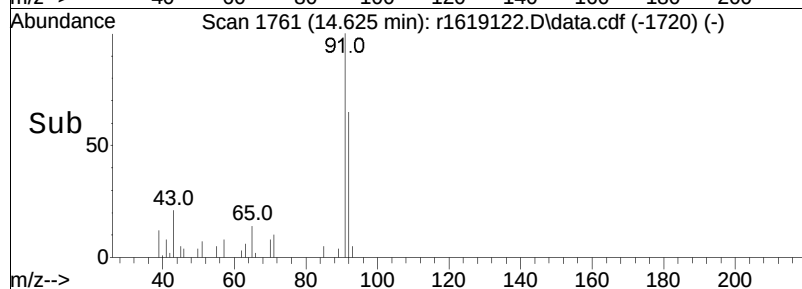
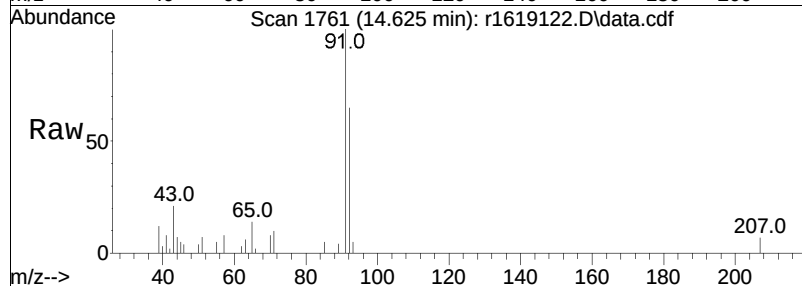
Tgt Ion	Ratio	Lower	Upper
43	100		
57	38.5	29.9	44.9
100	0.0	11.5	17.3#

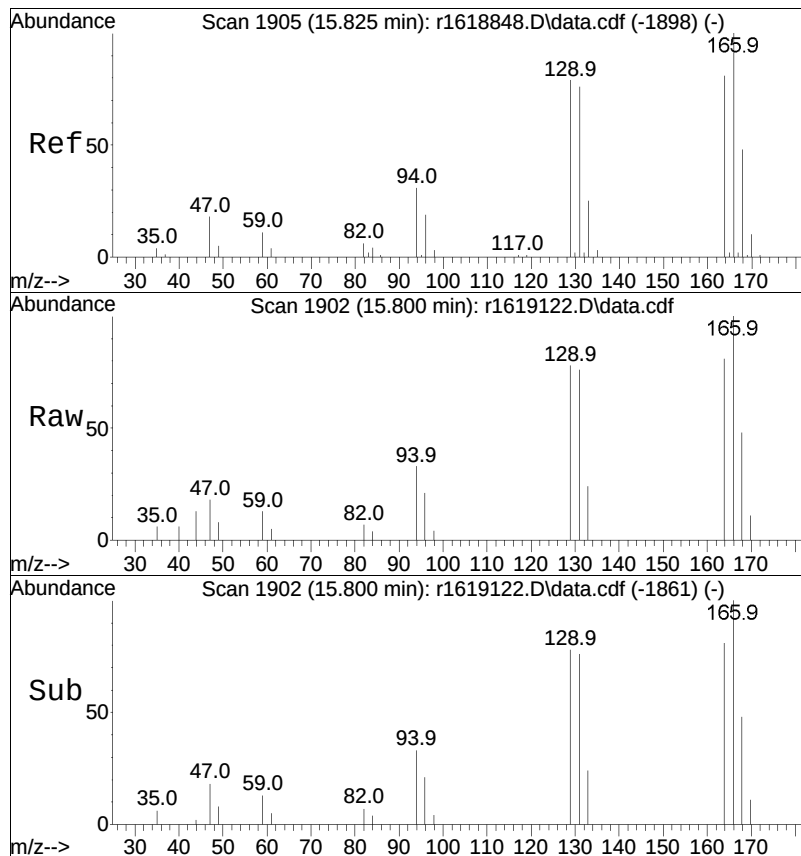




#68
toluene
Concen: 0.20 ppbV
RT: 14.625 min Scan# 1761
Delta R.T. 0.008 min
Lab File: r1619122.D
Acq: 16 Sep 2020 6:11 PM

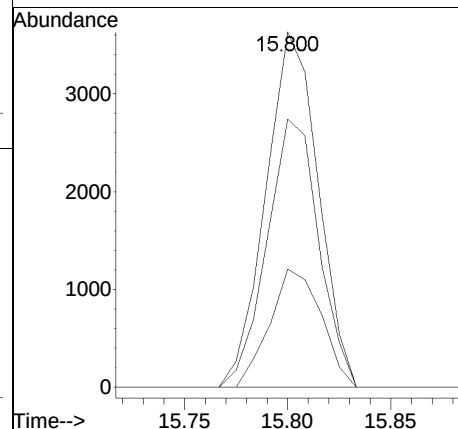
Tgt	Ion	Ratio	Lower	Upper
91	100			
92	64.7	50.6	75.8	

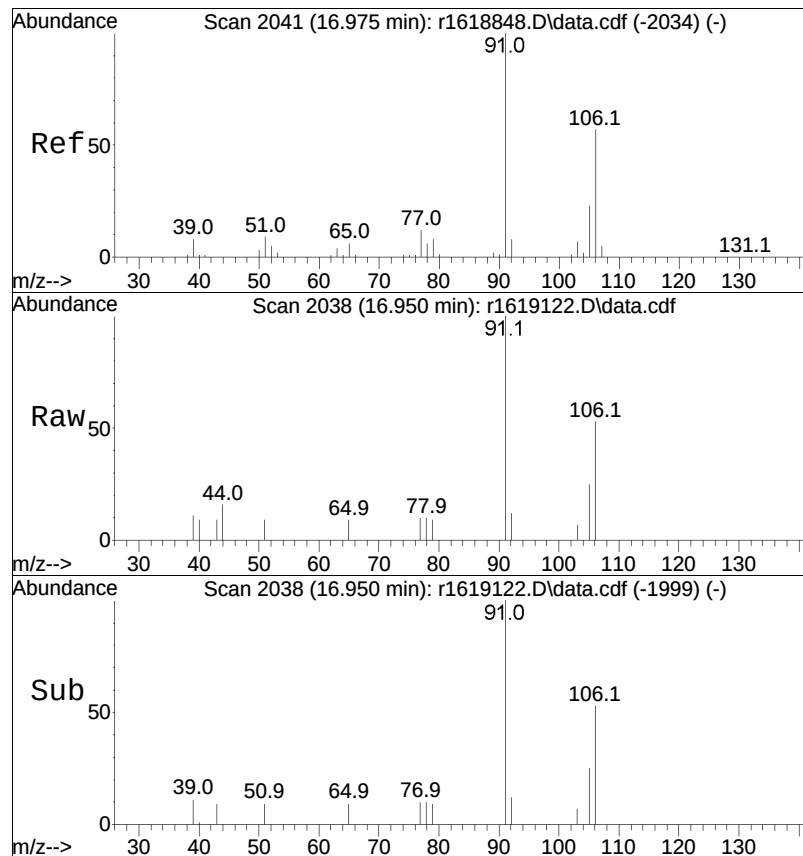




#78
 tetrachloroethene
 Concen: 0.21 ppbV
 RT: 15.800 min Scan# 1902
 Delta R.T. 0.008 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

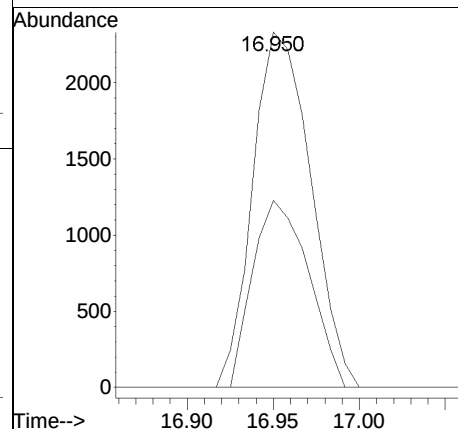
Tgt Ion:	166	Resp:	6419
Ion Ratio	Lower	Upper	
166	100		
131	75.5	61.0	91.6
94	33.3	24.6	37.0

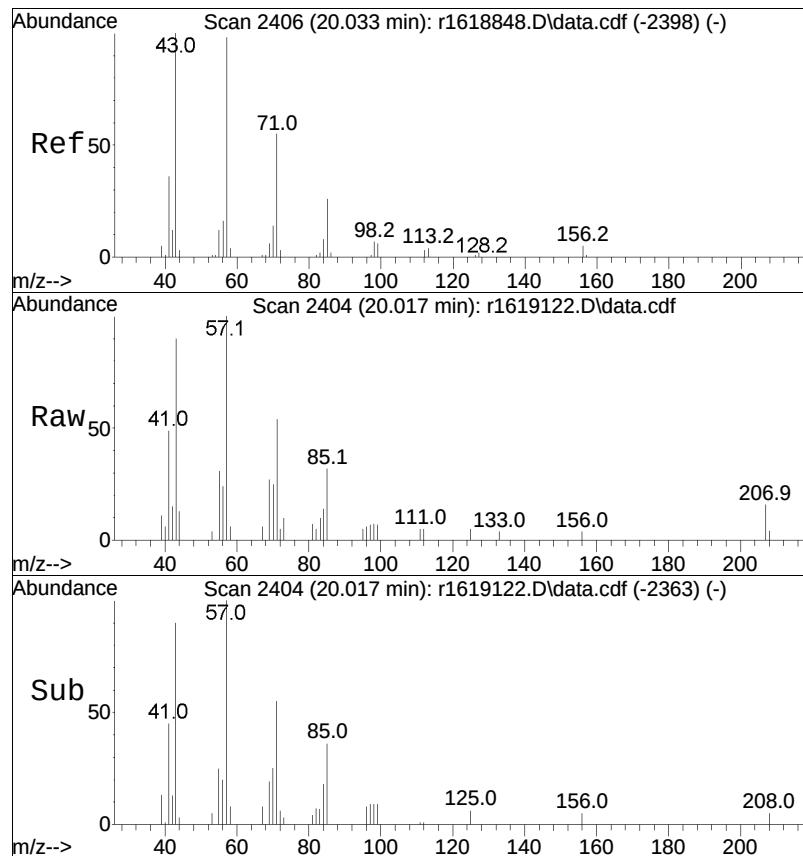




#83
 m+p-xylene
 Concen: 0.07 ppbV
 RT: 16.950 min Scan# 2038
 Delta R.T. -0.008 min
 Lab File: r1619122.D
 Acq: 16 Sep 2020 6:11 PM

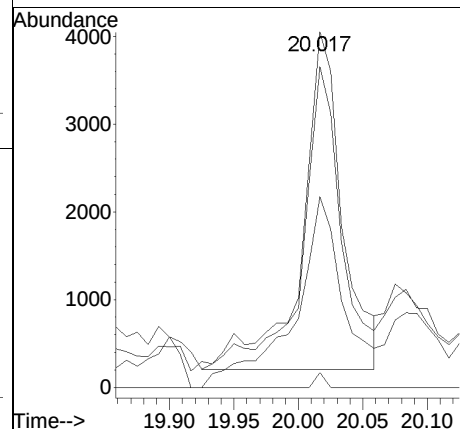
Tgt Ion	Ratio	Lower	Upper
91	100		
106	52.6	45.2	67.8

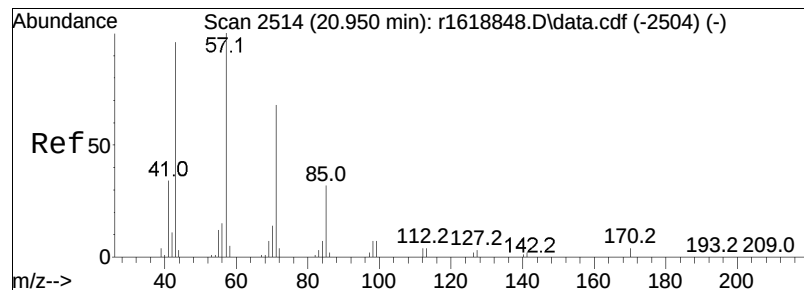




#112
undecane
Concen: 0.11 ppbV
RT: 20.017 min Scan# 2404
Delta R.T. 0.008 min
Lab File: r1619122.D
Acq: 16 Sep 2020 6:11 PM

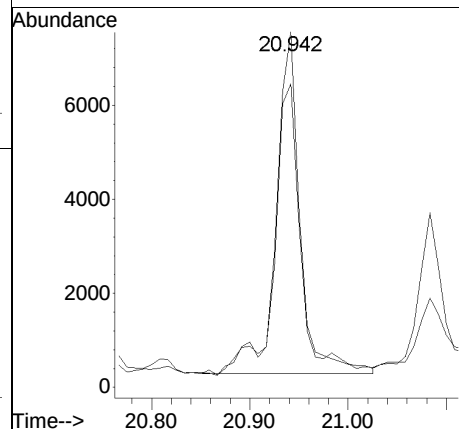
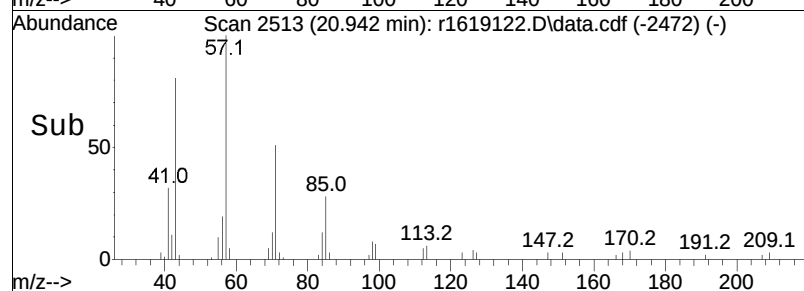
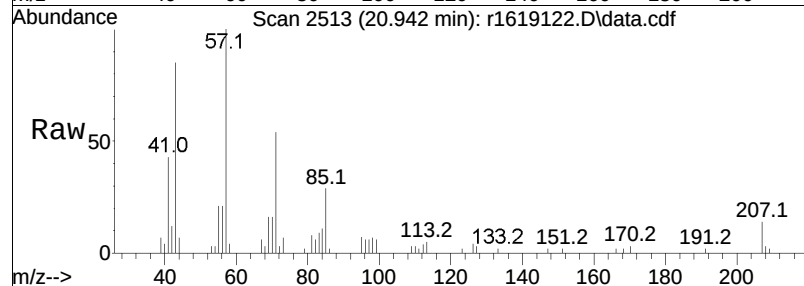
Tgt	Ion: 57	Resp:	8489
Ion	Ratio	Lower	Upper
57	100		
43	90.2	81.6	122.4
71	53.7	45.1	67.7
156	4.2	3.7	5.5

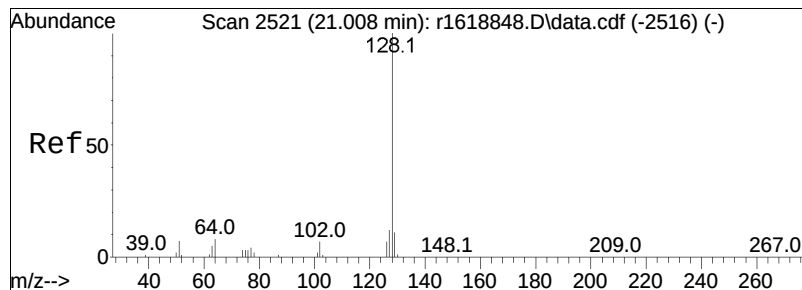




#114
dodecane
Concen: 0.19 ppbV
RT: 20.942 min Scan# 2513
Delta R.T. 0.008 min
Lab File: r1619122.D
Acq: 16 Sep 2020 6:11 PM

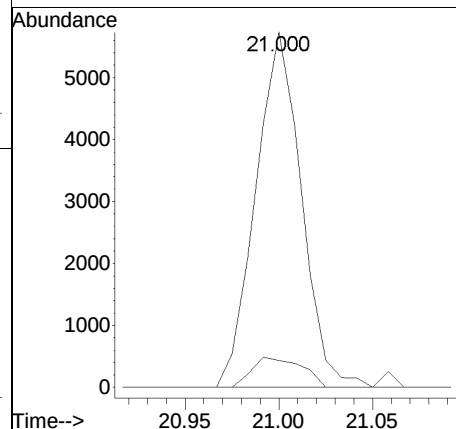
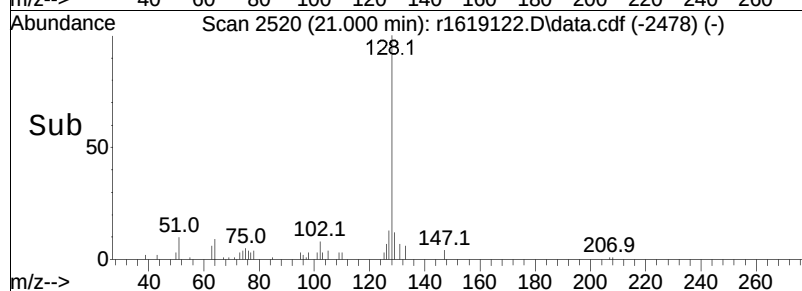
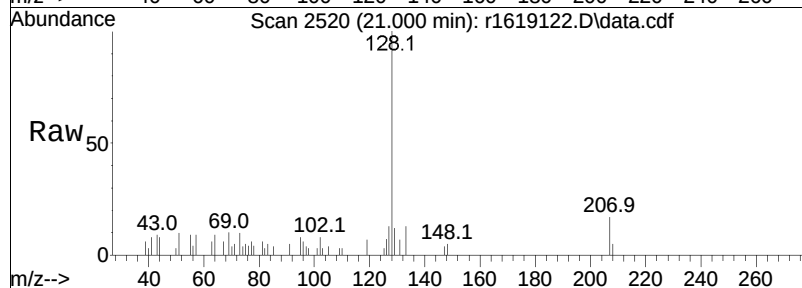
Tgt	Ion	Resp	Lower	Upper
57	100	12577		
43	85.4	76.8	115.2	





#116
naphthalene
Concen: 0.11 ppbV
RT: 21.000 min Scan# 2520
Delta R.T. 0.017 min
Lab File: r1619122.D
Acq: 16 Sep 2020 6:11 PM

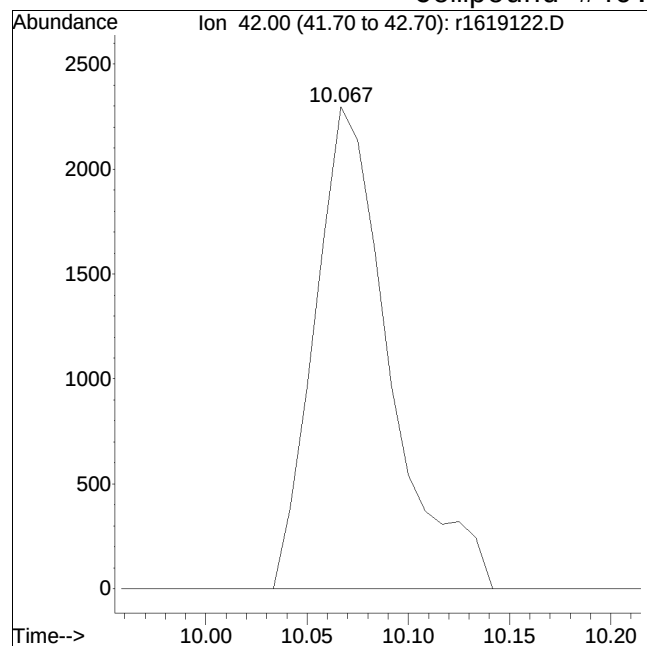
Tgt Ion	Ratio	Lower	Upper
128	100		
102	7.6	5.8	8.6



Manual Integration Report

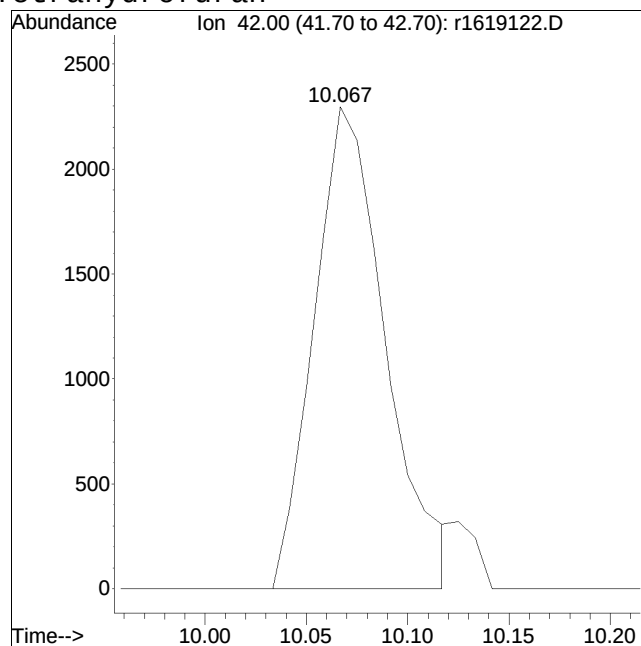
Data Path : 0:\Forensics\Data\Airlab16QMethod : TFS16_200902.M
Data File : r1619122.D Operator : AIRLAB16:TS
Date Inj'd : 9/16/2020 0:6: 1 Instrument :
Sample : WG1410723-5,3,250,250 Quant Date : 9/17/2020 5:38 am

Compound #40: Tetrahydrofuran



Original Peak Response = 5913

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 5631 M6

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, ppbv} = C_s \times \text{DF}$$

Where:

C_s = Concentration of sample (ppbv)

DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor

$$\text{DF} = V_{\text{cf}} / V_{\text{ci}}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

P =

Conversion of ppbv to $\mu\text{g}/\text{m}^3$

$$\mu\text{g}/\text{m}^3 = (\text{ppbv}) \times \text{MW} / 24.47$$

Where:

24.47 = molar gas constant (g/g-mole)

MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$$V_{ci} = 2.7 * PI / 14.696$$

Step 2: Calculate the volume in the canister after pressurization.

$$V_{cf} = 2.7 * PF / 14.696$$

Step 3: Calculate the dilution factor.

$$DF = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

PI = pressure reading of canister prior to pressurization (psia)

V_{cf} = volume of air in canister after pressurization, L

PF = pressure reading of canister after pressurization (psia)

DF = dilution factor

14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Sep 17 2020, 10:56 am

Work Group: WG1410723 for Department: 3 GC/MS

Created: 16-SEP-20 Due: Operator: EW

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2037568-01	AA-01	S T015-LL	AIR	DONE	U	1009	0917	S0	Can-6
L2037568-02	SSDS ZONE 2	S T015-LL	SOIL_VAPOR	DONE	U	1009	0917	S0	Can-6
L2037568-03	SSDS ZONE 1	S T015-LL	SOIL_VAPOR	DONE	U	1009	0917	S0	Can-6
L2037568-04	SSDS ZONE 3	S T015-LL	SOIL_VAPOR	DONE	U	1009	0917	S0	Can-6
L2037568-05	SSDS ZONE 4	S T015-LL	SOIL_VAPOR	DONE	U	1009	0917	S0	Can-6
L2037647-01	046/LSV-3	S T015-LL	SOIL_VAPOR	DONE	U	1010	0917	S0	Can-6
L2037647-02	047/LSV-2	S T015-LL	SOIL_VAPOR	DONE	U	1010	0917	S0	Can-6
L2037647-03	048/LSV-5	S T015-LL	SOIL_VAPOR	DONE	U	1010	0917	S0	Can-6
L2037647-04	049/LSV-6	S T015-LL	SOIL_VAPOR	DONE	U	1010	0917	S0	Can-6
L2037647-05	050/DUP-1	S T015-LL	SOIL_VAPOR	DONE	U	1010	0917	S0	Can-6
L2037647-06	051/LSV-9	S T015-LL	SOIL_VAPOR	DONE	U	1010	0917	S0	Can-6
L2037647-07	052/LSV-11	S T015-LL	SOIL_VAPOR	DONE	U	1010	0917	S0	Can-6
L2037647-08	053/LSV-10	S T015-LL	SOIL_VAPOR	DONE	U	1010	0917	S0	Can-6
L2037647-09	054/LSV-4	S T015-LL	SOIL_VAPOR	DONE	U	1010	0917	S0	Can-6
L2037647-10	055/LSV-8	S T015-LL	SOIL_VAPOR	DONE	U	1010	0917	S0	Can-6
WG1410723-1	MS BFB Tune Standard	S T015-LL	AIR	DONE	U				
WG1410723-1	MS BFB Tune Standard	S T015-LL	SOIL_VAPOR	DONE	U				
WG1410723-2	Continuing Calibrati	S T015-LL	AIR	DONE	U				
WG1410723-2	Continuing Calibrati	S T015-LL	SOIL_VAPOR	DONE	U				
WG1410723-3	Laboratory Control S	S T015-LL	SOIL_VAPOR	DONE	U				
WG1410723-3	Laboratory Control S	S T015-LL	AIR	DONE	U				
WG1410723-4	Laboratory Method Bl	S T015-LL	AIR	DONE	U				
WG1410723-4	Laboratory Method Bl	S T015-LL	SOIL_VAPOR	DONE	U				
WG1410723-5	Duplicate Sample	S T015-LL	AIR	DONE	U				
WG1410723-5	Duplicate Sample	S T015-LL	SOIL_VAPOR	DONE	U				
Comments:									
WG1410723-5	L2037568-02								

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: Airlab 16

Internal Standard/Surrogate IDs: SS20-009/ SS20-025

Date: 09/02/20

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: AR

Sequence File Name: 200902.S

SIM ICAL#		Full Scan ICAL#		APH ICAL#			Leak Check Pass ? Y/N
AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/Sublist	
1	BA16090201	TO15_SFS.qgm	R1618837.qgd	250ML			NA
1	BA16090202	TO15_SFS.qgm	R1618838.qgd	250ML			NA
1	BA16090203	TO15_SFS.qgm	R1618839.qgd	250ML			NA
1	TA16090201	TO15_SFS.qgm	R1618840.qgd	250ML	TUNE		NA
5	ITO15-SIMTD0.02	TO15_SFS.qgm	R1618841.qgd	SS20-029D 50 mL	SIM ONLY	DEFAULT	NA
5	ITO15-SIMTD0.05	TO15_SFS.qgm	R1618842.qgd	SS20-029D 125 mL	SIM ONLY	DEFAULT	NA
5	ITO15-SIMTD0.1	TO15_SFS.qgm	R1618843.qgd	SS20-029D 250 mL	SIM ONLY	DEFAULT	NA
6	ITO15-LLSTD0.2	TO15_SFS.qgm	R1618844.qgd	SS20-029C 50 mL		DEFAULT	NA
6	ITO15-LLSTD0.5	TO15_SFS.qgm	R1618845.qgd	SS20-029C 125 mL		DEFAULT	NA
6	ITO15-LLSTD1.0	TO15_SFS.qgm	R1618846.qgd	SS20-029C 250 mL		DEFAULT	NA
7	ITO15-LLSTD5.0	TO15_SFS.qgm	R1618847.qgd	SS20-029B1 125 mL		DEFAULT	NA
7	ITO15-LLSTD010	TO15_SFS.qgm	R1618848.qgd	SS20-029B1 250 mL		DEFAULT	NA
8	ITO15-LLSTD020	TO15_SFS.qgm	R1618849.qgd	SS20-029A 50 mL		DEFAULT	NA
8	ITO15-LLSTD050	TO15_SFS.qgm	R1618850.qgd	SS20-029A 125 mL		DEFAULT	NA
8	ITO15-LLSTD100	TO15_SFS.qgm	R1618851.qgd	SS20-029A 250 mL	LL ONLY	DEFAULT	NA
1	BA16090201	TO15_SFS.qgm	R1618852.qgd	250ML			NA
1	BA16090202	TO15_SFS.qgm	R1618853.qgd	250ML			NA
2	CTO15-LLSTD010	TO15_SFS.qgm	R1618854.qgd	SS20-031A 250 mL	LL ICV	DEFAULT ICV	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1618855.qgd	SS20-031A 125 mL	SIM ICV	DEFAULT ICV	NA
							NA
							NA

[illegible]

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Form 12904 (Pre-Qualtrax ID: 117-09) Revision 1
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Alpha Analytical Air Lab Instrument Run Log

Instrument ID: Airlab 16

Internal Standard/Surrogate IDs: SS20-009/ SS20-025

Date: 09/16/20

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: EW

Sequence File Name: 200916.S

SIM ICAL# 17103

Full Scan ICAL# 17102

APH ICAL# 17104

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/Sublist	Leak Check Pass ? Y/N
1	TA16091601	TO15_SFS.qgm	R1619114.qgd	250ML	TUNE		NA
2	CA16091601	TO15_SFS.qgm	R1619115.qgd	SS20-029E 250 mL	LL CC		NA
3	CTO15-LLSTD010	TO15_SFS.qgm	R1619116.qgd	SS20-031A 250 mL	LL LCS		NA
3	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1619117.qgd	SS20-031A 125 mL	SIM LCS		NA
1	BA16091601	TO15_SFS.qgm	R1619118.qgd	250ML	LL BLANK		NA
1	BA16091602	TO15_SFS.qgm	R1619119.qgd	250ML	SIM BLANK		NA
1	L2037568-01,3,250,250	TO15_SFS.qgm	R1619120.qgd	WG1410723,ICAL17102		NY	Y
2	L2037568-02,3,250,250	TO15_SFS.qgm	R1619121.qgd	WG1410723,ICAL17102		NY	Y
2	L2037568-02DUP,3,250,250	TO15_SFS.qgm	R1619122.qgd	WG1410723,ICAL17102	LL DUP	NY	Y
3	L2037568-03,3,250,250	TO15_SFS.qgm	R1619123.qgd	WG1410723,ICAL17102		NY	Y
4	L2037568-04,3,250,250	TO15_SFS.qgm	R1619124.qgd	WG1410723,ICAL17102		NY	Y
5	L2037568-05,3,250,250	TO15_SFS.qgm	R1619125.qgd	WG1410723,ICAL17102		NY	Y
6	L2037647-01,3,250,250	TO15_SFS.qgm	R1619126.qgd	WG1410723,ICAL17102		NY	Y
7	L2037647-02,3,250,250	TO15_SFS.qgm	R1619127.qgd	WG1410723,ICAL17102		NY	Y
8	L2037647-03,3,250,250	TO15_SFS.qgm	R1619128.qgd	WG1410723,ICAL17102		NY	Y
9	L2037647-04,3,250,250	TO15_SFS.qgm	R1619129.qgd	WG1410723,ICAL17102		NY	Y
10	L2037647-05,3,250,250	TO15_SFS.qgm	R1619130.qgd	WG1410723,ICAL17102		NY	Y
11	L2037647-06,3,250,250	TO15_SFS.qgm	R1619131.qgd	WG1410723,ICAL17102		NY	Y
12	L2037647-07D,3,75,250	TO15_SFS.qgm	R1619132.qgd	WG1410723,ICAL17102	T	NY	Y
13	L2037647-08,3,250,250	TO15_SFS.qgm	R1619133.qgd	WG1410723,ICAL17102		NY	Y
14	L2037647-09D,3,75,250	TO15_SFS.qgm	R1619134.qgd	WG1410723,ICAL17102	NT	NY	Y
15	L2037647-10,3,250,250	TO15_SFS.qgm	R1619135.qgd	WG1410723,ICAL17102		NY	Y

Alpha Analytical Air Lab Instrument Run Log

16	L2037566-01D,3,116.10,250	TO15_SFS.qgm	R1619136.qgd	WG1410727,ICAL17102		CT	Y
16	L2037566-01DDUP,3,116.10,250	TO15_SFS.qgm	R1619137.qgd	WG1410727,ICAL17102	CT-TO15 DUP	CT	Y
1	L2037566-02D,3,116.10,250	TO15_SFS.qgm	R1619138.qgd	WG1410727,ICAL17102		CT	Y
2	L2037566-03D,3,115.25,250	TO15_SFS.qgm	R1619139.qgd	WG1410727,ICAL17102		CT	Y
13	L2037647-08D,3,100,250	TO15_SFS.qgm	R1619140.qgd	WG1410723,ICAL17102	DO NOT NEED	DCDFM ONLY	Y

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed