www.alphalab.com

Alpha Analytical

Laboratory Code: 11148

SDG Number: L1821938

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Table of Contents

New York ASP Category B Data Deliverable Package 1
Table of Contents 2
Sample ID Cross Reference 4
SDG Narrative 5
Data Qualifier Definitions 7
Instrument Information 9
Volatile Organics Instruments 9
Volatile Organics in Air Instruments 9
Semivolatile Organics Instruments - Westborough 10
Semivolatile Organic Instruments - Mansfield 11
Sample Log-in Sheet 12
Lims COC (LN01) 13
External Chain of Custody 14
Organics Analysis 15
GCMS 8260 Analysis 16
Volatiles QC Summary 17
Form 2 - Organics 18
Form 3 - Organics 19
Form 4 - Organics 21
Form 5 - Organics 22
Form 8 - Organics 24
MDL Study - Volatile Organics 8260 25
Volatiles Sample Data 34
Form 1 - Organics 35
TRANSPORT BLANK (L1821938-05) Analyzed: 06/14/18 20:45 47
CTMMW-11__2018.06.12 (L1821938-03) Analyzed: 06/15/18 02:12 53
CTMMW-09__2018.06.12 (L1821938-01D) Analyzed: 06/15/18 02:38 61
CTMMW-12__2018.06.12 (L1821938-04D) Analyzed: 06/15/18 03:03 71
CTMMW-10__2018.06.12 (L1821938-02D) Analyzed: 06/15/18 03:28 81
Volatile Standards Data 92
Initial Calibration 93
Form 6 - Organics 94
ICAL for VOA105 on 05/31/18 ICAL14750 97
Initial Calibration Summary - Cal Date: 05/31/18 00:00 97
BFB TUNE Injected on: 05/30/18 21:01 101
STDL11 Injected on: 05/30/18 22:10 102
STDL1 Injected on: 05/30/18 22:35 105
STDL2 Injected on: 05/30/18 23:25 112
STDL3 Injected on: 05/31/18 00:15 119
STDL4 Injected on: 05/31/18 00:40 129
STDL6 Injected on: 05/31/18 01:06 137
STDL8 Injected on: 05/31/18 01:31 145
STDL10 Injected on: 05/31/18 01:56 153
ICV Summary Form Injected on: 05/31/18 04:51 161
ICV Quant Report Injected on: 05/31/18 04:51 164
Continuing Calibration 173
Form 7 - Organics 174
CC Summary - VOA105 Run: 06/14/18 19:05 177
CC Quant - VOA105 Run: 06/14/18 19:05 180
bfb tune - Inst. VOA105 06/14/18 18:21 186

Table of Contents

Volatiles Raw QC Data 187
Laboratory Method Bl (WG1126396-5) Analyzed: 06/14/18 20:20 188
Laboratory Control S (WG1126396-3) Analyzed: 06/14/18 19:05 197
LCS Duplicate (WG1126396-4) Analyzed: 06/14/18 19:30 252
Volatiles Calculations 307
QC Batch WG1126396 308
ICAL Sequence for VOA105 on 31-MAY-2018 00:00 ICAL14750 309
Sequence Log 310

Project Name: MASTER CLEANERS
Project Number: 16.6345

Lab Number: L1821938
Report Date: 06/18/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1821938-01	CTMMW-09__2018.06.12	WATER	GUILDERLAND, NY	06/12/18 12:00	06/12/18
L1821938-02	CTMMW-10__2018.06.12	WATER	GUILDERLAND, NY	06/12/18 12:20	06/12/18
L1821938-03	CTMMW-11__2018.06.12	WATER	GUILDERLAND, NY	06/12/18 12:35	06/12/18
L1821938-04	CTMMW-12__2018.06.12	WATER	GUILDERLAND, NY	06/12/18 14:45	06/12/18
L1821938-05	TRANSPORT BLANK	WATER	GUILDERLAND, NY	06/12/18 00:00	06/12/18

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.

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

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: Amita Naik Report Date: 06/18/18

Title: Technical Director/Representative

GLOSSARY

Acronyms

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).
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.
LCSD	- 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.
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.
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.
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

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.

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.

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 Condensation Product".
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

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

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.

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.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 5975MSD (or equivalent)	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics in Air Instruments

Volatile Organics in Air:
Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE

Concentrator: Entech 7100A or 7200	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	Column Length: 60 Meters
	df: 1.00 um
	ID: 0.52 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 ul
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul
Column Type: Restek RTX-5MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB

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

Herbicides

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-1701	df: 0.25
Column B: Restek RTX-5	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum

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

EPH

Instrument: Agilent 6890N w/FID	Injection Volume: 1uL
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, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 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 (ECD):

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 (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 : L1821938

Account Name : C.T. Male Associates
Project Number : 16.6345
Project Name : MASTER CLEANERS

Received : 12-JUN-2018
Reviewer : Richard Scott

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	2.6	

Condition Information

All samples on COC received?	**YES**
Extra samples received?	**NO**
Are there any sample container discrepancies?	**NO**
Are there any discrepancies between sample labels & COC?	**NO**
Are samples in appropriate containers for requested analysis?	**YES**
Are samples properly preserved for requested analysis?	**YES**
Are samples within holding time for requested analysis?	**YES**
All sampling equipment returned?	**NA**

Volatile Organics/VPH

Reagent Water Vials Frozen by Client?	**NO**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jun 18 2018, 07:44 pm

Login Number: L1821938
Account: CTMALE C.T. Male AssociatesProject: 16.6345
Received: 12JUN18 Due Date: 19JUN18

Sample #	Client ID	Mat	PR	Collected
L1821938-01	CTMMW-09__2018.06.12	1	S0	12JUN18 12:00
8260: Report List Built ASP-B Package Due Date: 06/19/18				
ASP-B,NYTCL-8260-R2				
L1821938-02	CTMMW-10__2018.06.12	1	S0	12JUN18 12:20
8260: Report List Built Package Due Date: 06/19/18				
NYTCL-8260-R2				
L1821938-03	CTMMW-11__2018.06.12	1	S0	12JUN18 12:35
8260: Report List Built Package Due Date: 06/19/18				
NYTCL-8260-R2				
L1821938-04	CTMMW-12__2018.06.12	1	S0	12JUN18 14:45
8260: Report List Built Package Due Date: 06/19/18				
NYTCL-8260-R2				
L1821938-05	TRANSPORT BLANK	1	S0	12JUN18 00:00
8260: Report List Built Package Due Date: 06/19/18				
NYTCL-8260-R2				

Logged By: Candace Fox

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

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

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 6/13/18

ALPHA Job #: L1821938

Client Information
Client: C.T. Male Associates
Address: 50 Century Hill Dr. Latham, NY 12110
Phone: 518 786 7400
Fax: 518 786 7299
Email: J.Marx@CTMale.com

Project Information
Project Name: Master Cleaners
Project Location: Guilderland, NY
Project #: 16.6345
(Use Project name as Project #)
Project Manager: Jeff Marx
ALPHAQuote #:

Turn-Around Time
Standard: [X]
Rush (only if pre approved): [ ]
Due Date:
# of Days:

Deliverables
[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [X] EQuIS (4 File)
[ ] Other

Billing Information
[ ] Same as Client Info
PO #

Regulatory Requirement
[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS
TCL VOCs

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs	Sample Specific Comments	Total # Bottles
21938-01	CTMMW-09_2018.06.12	6/12/2018	1200	GW	DA	X		3
-02	CTMMW-10_2018.06.12	"	1220	GW	DA	X		3
-03	CTMMW-11_2018.06.12	"	1235	GW	DA	X		3
-04	CTMMW-12_2018.06.12	"	1445	GW	DA	X		3
-05	Transport Blank	—	—	W	—	X		2

Container Type: V
Preservative: B

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	6-12-18 1607	Benjamin Lloyd AAL	6-12-18 1607
Benjamin Lloyd	6-12-18 1610		6/13/18 0115

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Form 2
Surrogate Recovery
VOLATILES

Client: C.T. Male Associates
Project Name: MASTER CLEANERS

Lab Number: L1821938
Project Number: 16.6345
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
CTMMW-09__2018.06.12 (L1821938-01D)	97	97	101	97	0
CTMMW-10__2018.06.12 (L1821938-02D)	100	98	101	99	0
CTMMW-11__2018.06.12 (L1821938-03)	100	98	100	99	0
CTMMW-12__2018.06.12 (L1821938-04D)	98	97	101	98	0
TRANSPORT BLANK (L1821938-05)	95	98	101	97	0
WG1126396-3LCS	97	98	101	97	0
WG1126396-4LCSD	97	99	100	99	0
WG1126396-5BLANK	94	98	101	95	0

QC LIMITS

(70-130) DCA = 1,2-DICHLOROETHANE-D4
(70-130) TOL = TOLUENE-D8
(70-130) BFB = 4-BROMOFLUOROBENZENE
(70-130) DBFM = DIBROMOFLUOROMETHANE

*** Values outside of QC limits**

FORM II NYTCL-8260-R2

Laboratory Control Sample
Form 3

Client	: C.T. Male Associates	**Lab Number**	: L1821938
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345
Matrix	: WATER		
LCS Sample ID	: WG1126396-3	**Analysis Date** : 06/14/18 19:05	**File ID** : V05180614N02
LCSD Sample ID	: WG1126396-4	**Analysis Date** : 06/14/18 19:30	**File ID** : V05180614N03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	10	9.0	90	10	9.4	94	4	70-130	20
1,1-Dichloroethane	10	8.8	88	10	9.2	92	4	70-130	20
Chloroform	10	8.7	87	10	9.3	93	7	70-130	20
Carbon tetrachloride	10	9.1	91	10	9.7	97	6	63-132	20
1,2-Dichloropropane	10	9.1	91	10	9.5	95	4	70-130	20
Dibromochloromethane	10	7.8	78	10	8.2	82	5	63-130	20
1,1,2-Trichloroethane	10	9.4	94	10	10.	100	6	70-130	20
Tetrachloroethene	10	9.0	90	10	9.4	94	4	70-130	20
Chlorobenzene	10	8.8	88	10	9.3	93	6	75-130	20
Trichlorofluoromethane	10	9.1	91	10	9.5	95	4	62-150	20
1,2-Dichloroethane	10	8.9	89	10	9.3	93	4	70-130	20
1,1,1-Trichloroethane	10	8.9	89	10	9.4	94	5	67-130	20
Bromodichloromethane	10	8.8	88	10	9.2	92	4	67-130	20
trans-1,3-Dichloropropene	10	8.1	81	10	8.6	86	6	70-130	20
cis-1,3-Dichloropropene	10	9.3	93	10	9.7	97	4	70-130	20
Bromoform	10	7.4	74	10	7.7	77	4	54-136	20
1,1,2,2-Tetrachloroethane	10	9.3	93	10	9.7	97	4	67-130	20
Benzene	10	9.0	90	10	9.6	96	6	70-130	20
Toluene	10	8.9	89	10	9.4	94	5	70-130	20
Ethylbenzene	10	8.8	88	10	9.2	92	4	70-130	20
Chloromethane	10	8.8	88	10	9.2	92	4	64-130	20
Bromomethane	10	6.8	68	10	7.4	74	8	39-139	20
Vinyl chloride	10	9.6	96	10	10.	100	4	55-140	20
Chloroethane	10	10.	100	10	10.	100	0	55-138	20
1,1-Dichloroethene	10	9.2	92	10	9.7	97	5	61-145	20
trans-1,2-Dichloroethene	10	9.0	90	10	9.5	95	5	70-130	20
Trichloroethene	10	8.5	85	10	9.1	91	7	70-130	20
1,2-Dichlorobenzene	10	9.2	92	10	9.6	96	4	70-130	20

Laboratory Control Sample
Form 3

Client	: C.T. Male Associates	**Lab Number**	: L1821938
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345
Matrix	: WATER		
LCS Sample ID	: WG1126396-3	**Analysis Date** : 06/14/18 19:05	**File ID** : V05180614N02
LCSD Sample ID	: WG1126396-4	**Analysis Date** : 06/14/18 19:30	**File ID** : V05180614N03

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R	RPD	Recovery Limits	RPD Limit
1,3-Dichlorobenzene	10	9.1	91	10	9.4	94	3	70-130	20
1,4-Dichlorobenzene	10	9.0	90	10	9.4	94	4	70-130	20
Methyl tert butyl ether	10	9.5	95	10	10.	100	5	63-130	20
p/m-Xylene	20	18.	90	20	19.	95	5	70-130	20
o-Xylene	20	18.	90	20	19.	95	5	70-130	20
cis-1,2-Dichloroethene	10	9.0	90	10	9.8	98	9	70-130	20
Styrene	20	18.	90	20	20.	100	11	70-130	20
Dichlorodifluoromethane	10	10.	100	10	11.	110	10	36-147	20
Acetone	10	9.0	90	10	9.2	92	2	58-148	20
Carbon disulfide	10	9.3	93	10	9.8	98	5	51-130	20
2-Butanone	10	9.4	94	10	10.	100	6	63-138	20
4-Methyl-2-pentanone	10	9.1	91	10	9.3	93	2	59-130	20
2-Hexanone	10	8.8	88	10	9.1	91	3	57-130	20
Bromochloromethane	10	9.3	93	10	9.7	97	4	70-130	20
1,2-Dibromoethane	10	9.3	93	10	9.8	98	5	70-130	20
1,2-Dibromo-3-chloropropane	10	7.7	77	10	7.8	78	1	41-144	20
Isopropylbenzene	10	9.2	92	10	9.6	96	4	70-130	20
1,2,3-Trichlorobenzene	10	9.7	97	10	10.	100	3	70-130	20
1,2,4-Trichlorobenzene	10	9.6	96	10	10.	100	4	70-130	20
Methyl Acetate	10	9.2	92	10	9.5	95	3	70-130	20
Cyclohexane	10	9.3	93	10	9.7	97	4	70-130	20
1,4-Dioxane	500	650	130	500	630	126	3	56-162	20
Freon-113	10	9.2	92	10	9.7	97	5	70-130	20
Methyl cyclohexane	10	9.2	92	10	9.7	97	5	70-130	20

Method Blank Summary
Form 4
VOLATILES

Client	: C.T. Male Associates	**Lab Number**	: L1821938
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345
Lab Sample ID	: WG1126396-5	**Lab File ID**	: V05180614N05
Instrument ID	: VOA105		
Matrix	: WATER	**Analysis Date**	: 06/14/18 20:20

Client Sample No.	Lab Sample ID	Analysis Date
WG1126396-3LCS	WG1126396-3	06/14/18 19:05
WG1126396-4LCSD	WG1126396-4	06/14/18 19:30
TRANSPORT BLANK	L1821938-05	06/14/18 20:45
CTMMW-11__2018.06.12	L1821938-03	06/15/18 02:12
CTMMW-09__2018.06.12	L1821938-01D	06/15/18 02:38
CTMMW-12__2018.06.12	L1821938-04D	06/15/18 03:03
CTMMW-10__2018.06.12	L1821938-02D	06/15/18 03:28

Instrument Performance Check
Bromofluorobenzene (BFB)
Form 5

Client	: C.T. Male Associates	**Lab Number**	: L1821938
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345
Instrument ID	: VOA105	**Analysis Date**	: 05/30/18 21:01
Tune Standard	: WG1121113-1	**Tune File ID**	: V05180530NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.5
75	30.0 - 60.0% of mass 95	53.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.3 (.3)1
174	Greater than 50.0 of mass 95	79.6
175	5.0 - 9.0% of mass 174	5.9 (7.4)1
176	95.0 - 101% of mass 174	78.7 (98.9)1
177	5.0 - 9.0% of mass 176	5.1 (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
STDL11	R1077309-2	V05180530N03	05/30/18 22:10
STDL1	R1077309-3	V05180530N04	05/30/18 22:35
STDL2	R1077309-4	V05180530N06	05/30/18 23:25
STDL3	R1077309-5	V05180530N08	05/31/18 00:15
STDL4	R1077309-6	V05180530N09	05/31/18 00:40
STDL6	R1077309-7	V05180530N10	05/31/18 01:06
STDL8	R1077309-8	V05180530N11	05/31/18 01:31
STDL10	R1077309-9	V05180530N12	05/31/18 01:56
ICV Quant Report	R1077309-1	V05180530N19	05/31/18 04:51

Instrument Performance Check
Bromofluorobenzene (BFB)
Form 5

Client	: C.T. Male Associates	**Lab Number**	: L1821938
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345
Instrument ID	: VOA105	**Analysis Date**	: 06/14/18 18:21
Tune Standard	: WG1126396-1	**Tune File ID**	: V05180614NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21
75	30.0 - 60.0% of mass 95	53
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.8 (1)1
174	Greater than 50.0 of mass 95	79.3
175	5.0 - 9.0% of mass 174	5.8 (7.3)1
176	95.0 - 101% of mass 174	79.1 (99.7)1
177	5.0 - 9.0% of mass 176	5.1 (6.4)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
WG1126396-2CCAL	WG1126396-2	V05180614N02	06/14/18 19:05
WG1126396-3LCS	WG1126396-3	V05180614N02	06/14/18 19:05
WG1126396-4LCSD	WG1126396-4	V05180614N03	06/14/18 19:30
WG1126396-5BLANK	WG1126396-5	V05180614N05	06/14/18 20:20
TRANSPORT BLANK	L1821938-05	V05180614N06	06/14/18 20:45
CTMMW-11__2018.06.12	L1821938-03	V05180614N19	06/15/18 02:12
CTMMW-09__2018.06.12	L1821938-01D	V05180614N20	06/15/18 02:38
CTMMW-12__2018.06.12	L1821938-04D	V05180614N21	06/15/18 03:03
CTMMW-10__2018.06.12	L1821938-02D	V05180614N22	06/15/18 03:28

Internal Standard Area and RT Summary
Form 8

Client	: C.T. Male Associates	**Lab Number**	: L1821938
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345
Instrument ID	: VOA105	**Analysis Date**	: 06/14/18 19:05
Sample No	: WG1126396-2	**Lab File ID**	: V05180614N02

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1126396-2	682856	6.15	526943	9.69	267847	12.36
Upper Limit	1365712	6.65	1053886	10.19	535694	12.86
Lower Limit	341428	5.65	263472	9.19	133924	11.86
Sample ID						
WG1126396-3 LCS	682856	6.15	526943	9.69	267847	12.36
WG1126396-4 LCSD	679186	6.15	523124	9.69	268238	12.36
WG1126396-5 BLANK	668972	6.15	509836	9.69	249765	12.36
TRANSPORT BLANK	648757	6.15	496935	9.69	242147	12.36
CTMMW-11__2018.06.12	577351	6.15	445482	9.69	221416	12.36
CTMMW-09__2018.06.12	581903	6.15	447953	9.69	216245	12.36
CTMMW-12__2018.06.12	579598	6.15	448111	9.69	215032	12.36
CTMMW-10__2018.06.12	573286	6.15	440066	9.69	211769	12.36

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 08/11/17
Created By: Jason Hebert
File: PM3913-1
Page: 1

Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.21	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20			
2-Chloroethylvinyl ether	110-75-8	10	0.402	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25			
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.24	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25			
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25			
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.2	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25			
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25			
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	1	0.33	ug/l				20	20			
Xylene (Total)	1330-20-7	1	0.33	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20			

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

Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20			
Iodomethane	74-88-4	5	0.398	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20			
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20			
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20			
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20			
Acrolein	107-02-8	5	0.441	ug/l	70-130	20	70-130	20	20			
Acrylonitrile	107-13-1	5	0.43	ug/l	70-130	20	70-130	20	20			
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20			
Tetrahydrofuran	109-99-9	5	0.834	ug/l	58-130	20	58-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.22	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20			
1,3,5-Trichlorobenzene	108-70-3	2	0.141	ug/l	70-130	20	70-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20			
Halothane	151-67-7	2.5	0.287	ug/l	70-130	20	70-130	30	30			
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20			
Methyl Acetate	79-20-9	10	0.234	ug/l	70-130	20	70-130	20	20			

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

Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Ethyl Acetate	141-78-6	10	0.716	ug/l	70-130	20	70-130	20	20			
Acetonitrile	75-05-8	20	20	ug/l	70-130	20	70-130	20	20			
n-Hexane	110-54-3	10	10	ug/l	70-130	20	70-130	20	20			
Isopropyl Ether	108-20-3	2	0.425	ug/l	70-130	20	70-130	20	20			
Cyclohexane	110-82-7	10	0.271	ug/l	70-130	20	70-130	20	20			
Heptane	142-82-5	10	10	ug/l	70-130	20	70-130	20	20			
Butyl Acetate	123-86-4	10	10	ug/l	70-130	20	70-130	20	20			
tert-Butyl Alcohol	75-65-0	10	1.4	ug/l	70-130	20	70-130	20	20			
Ethyl-Tert-Butyl-Ether	637-92-3	2	0.179	ug/l	70-130	20	70-130	20	20			
Tertiary-Amyl Methyl Ether	994-05-8	2	0.278	ug/l	66-130	20	66-130	20	20			
1,4-Dioxane	123-91-1	250	60.8	ug/l	56-162	20	56-162	20	20			
Methyl Methacrylate	80-62-6	2.5	0.321	ug/l	70-130	20	70-130	20	20			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	10	0.148	ug/l	70-130	20	70-130	20	20			
iso-Butyl Alcohol	78-83-1	10	3.97	ug/l	70-130	20	70-130	20	20			
Methyl cyclohexane	108-87-2	10	0.396	ug/l	70-130	20	70-130	20	20			
Ethyl Alcohol	GCDAI06	250	14.5	ug/l	70-130	20	70-130	20	20			
Methyl Isothiocyanate	556-61-6	2	2	ug/l	70-130	20	70-130	20	20			
2-Pentanone	107-87-9	2	2	ug/l	70-130	20	70-130	20	20			
iso-Propyl Alcohol	67-63-0	100	3.52	ug/l	70-130	20	70-130	20	20			
1,4-Diethylbenzene	105-05-5	2	0.392	ug/l	70-130	20	70-130	20	20			
4-Ethyltoluene	622-96-8	2	0.34	ug/l	70-130	20	70-130	20	20			
1,2,4,5-Tetramethylbenzene	95-93-2	2	0.542	ug/l	70-130	20	70-130	20	20			
sec-Butyl Alcohol	78-92-2	25	6.84	ug/l	70-130	20	70-130	20	20			
4-Penten-2-Ol	625-31-0	100	6.61	ug/l	70-130	20	70-130	20	20			
2-Methyl-2-Butanol	75-85-4	25	7.04	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-Pentanol	108-11-2	25	6.74	ug/l	70-130	20	70-130	20	20			
n-Butyl Alcohol	71-36-3	100	8.02	ug/l	70-130	20	70-130	20	20			
Chloropicrin	76-06-02	20	2.95	ug/l	70-130	20	70-130	20	20			
Pentachloroethane	76-01-7	2	0.589	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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

Date Created: 11/07/16
Created By: Jason Hebert
File: PM2971-1
Page: 1

Volatile Organics - EPA 8260C/5035 High (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Vial MeOH preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	500	55.2	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	75	4.28	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	75	18.5	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	50	10.5	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	175	11.4	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	50	7.68	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	75	15.2	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	50	7.01	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	50	17.4	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	250	19.4	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	50	5.67	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	50	5.54	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	50	8.66	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	50	6.04	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	50	5.88	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	50	5.88	ug/kg				30	30			
1,3-Dichloropropene, Total	542-75-6	50	5.88	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	250	7.07	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	200	11.8	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	50	5.04	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	50	5.9	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	75	9.74	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	50	6.37	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	250	14.7	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	100	16.9	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	100	5.87	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	100	15.8	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	50	13.1	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	75	10.6	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	50	6.25	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	250	7.66	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	250	6.75	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	250	6.92	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	100	4.22	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	100	17.55	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	100	16.9	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	100	8.59	ug/kg				30	30			
Xylene (Total)	1330-20-7	100	8.59	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	50	7.14	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	50	7.14	ug/kg				30	30			
1,2-Dichloroethene (total)	540-59-0	50	7.14	ug/kg				30	30			
Dibromomethane	74-95-3	500	8.18	ug/kg	70-130	30	70-130	30	30			

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

Volatile Organics - EPA 8260C/5035 High (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Vial MeOH preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	500	6.6	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	500	8.13	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	100	20.1	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	500	9.54	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	1800	51.8	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	500	55.1	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	500	13.6	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	500	6.61	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	500	12.2	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	500	33.3	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	500	7.73	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	200	25.7	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	250	13.8	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	1000	49.8	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	250	11.3	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	200	8.72	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	250	7.26	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	50	15.9	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	250	10.4	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	50	5.74	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	50	6.1	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	250	6.77	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trichlorobenzene	108-70-3	200	11.5	ug/kg	70-139	30	70-130	30	30			
o-Chlorotoluene	95-49-8	250	7.99	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	250	6.64	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	250	19.8	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	250	11.4	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	50	5.19	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	50	6.25	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	250	6.92	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	50	5.46	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	250	7.38	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	250	9.09	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	250	7.17	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	250	7.07	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	250	19.6	ug/kg	70-130	30	70-130	30	30			
iso-Propyl Alcohol	67-63-0	5000	5000	ug/kg	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	250	13	ug/kg	67-130	30	67-130	30	30			
Methyl Acetate	79-20-9	1000	13.5	ug/kg	65-130	30	65-130	30	30			
Ethyl Acetate	141-78-6	1000	46.1	ug/kg	70-130	30	70-130	30	30			
Isopropyl Ether	108-20-3	200	6.98	ug/kg	66-130	30	66-130	30	30			
Cyclohexane	110-82-7	1000	7.3	ug/kg	70-130	30	70-130	30	30			

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

Volatile Organics - EPA 8260C/5035 High (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Vial MeOH preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Ethyl-Tert-Butyl-Ether	637-92-3	200	5.79	ug/kg	70-130	30	70-130	30	30			
Tertiary-Amyl Methyl Ether	994-05-8	200	4.83	ug/kg	70-130	30	70-130	30	30			
Ethyl Alcohol	GCDAI06	50000	10500	ug/kg	70-130	30	70-130	30	30			
1,4-Dioxane	123-91-1	5000	721	ug/kg	65-136	30	65-136	30	30			
Methyl cyclohexane	108-87-2	200	7.73	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	1000	13.7	ug/kg	70-130	30	70-130	30	30			
1,4-Diethylbenzene	105-05-5	200	7.99	ug/kg	70-130	30	70-130	30	30			
4-Ethyltoluene	622-96-8	200	6.2	ug/kg	70-130	30	70-130	30	30			
1,2,4,5-Tetramethylbenzene	95-93-2	200	6.51	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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

Date Created: 11/07/16
Created By: Jason Hebert
File: PM2971-1
Page: 1

VOCs - EPA 8260C/5035 High & Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	10	1.104	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1.5	0.0856	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.37	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.21	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	3.5	0.228	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.1536	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1.5	0.304	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	1	0.1402	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	1	0.348	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	5	0.388	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.1134	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	1	0.1108	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	1	0.1732	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.1208	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	1	0.1176	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	1	0.1176	ug/kg				30	30			
1,3-Dichloropropene, Total	542-75-6	1	0.1176	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	5	0.1414	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.236	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	1	0.1008	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	1	0.118	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1.5	0.1948	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.1274	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	5	0.294	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.338	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	2	0.1174	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.316	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.262	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.212	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	1	0.125	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	5	0.1532	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	5	0.135	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	5	0.1384	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.0844	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.351	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	2	0.338	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	2	0.1718	ug/kg				30	30			
Xylene (Total)	1330-20-7	2	0.1718	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.1428	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.1428	ug/kg				30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.1428	ug/kg				30	30			
Dibromomethane	74-95-3	10	0.1636	ug/kg	70-130	30	70-130	30	30			

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

VOCs - EPA 8260C/5035 High & Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	10	0.132	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	10	0.1626	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	2	0.402	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	10	0.1908	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	36	1.036	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	10	1.102	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	10	0.272	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	10	0.1322	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	10	0.244	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	10	0.666	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	10	0.1546	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	4	0.514	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	5	0.276	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	20	0.996	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	5	0.226	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	4	0.1744	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	5	0.1452	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	1	0.318	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	5	0.208	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	1	0.1148	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	1	0.122	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	5	0.1354	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trichlorobenzene	108-70-3	4	0.23	ug/kg	70-139	30	70-130	30	30			
o-Chlorotoluene	95-49-8	5	0.1598	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	5	0.1328	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	5	0.396	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	5	0.228	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	1	0.1038	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	1	0.125	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	5	0.1384	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	1	0.1092	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	5	0.1476	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	5	0.1818	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	5	0.1434	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	5	0.1414	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	5	0.392	ug/kg	70-130	30	70-130	30	30			
Ethyl ether	60-29-7	5	0.26	ug/kg	67-130	30	67-130	30	30			
Methyl Acetate	79-20-9	20	0.27	ug/kg	65-130	30	65-130	30	30			
Ethyl Acetate	141-78-6	20	0.922	ug/kg	70-130	30	70-130	30	30			
Isopropyl Ether	108-20-3	4	0.1396	ug/kg	66-130	30	66-130	30	30			
Cyclohexane	110-82-7	20	0.146	ug/kg	70-130	30	70-130	30	30			
Ethyl-Tert-Butyl-Ether	637-92-3	4	0.1158	ug/kg	70-130	30	70-130	30	30			

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

VOCs - EPA 8260C/5035 High & Low (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - 1 Vial MeOH/2 Vial Water

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Tertiary-Amyl Methyl Ether	994-05-8	4	0.0966	ug/kg	70-130	30	70-130	30	30			
1,4-Dioxane	123-91-1	100	14.42	ug/kg	65-136	30	65-136	30	30			
Methyl cyclohexane	108-87-2	4	0.1546	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	20	0.274	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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

Volatiles Sample Data

Form 1
VOA

Client	: C.T. Male Associates	Lab Number	: L1821938
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: L1821938-01D	Date Collected	: 06/12/18 12:00
Client ID	: CTMMW-09__2018.06.12	Date Received	: 06/12/18
Sample Location	: GUILDERLAND, NY	Date Analyzed	: 06/15/18 02:38
Sample Matrix	: WATER	Dilution Factor	: 100
Analytical Method	: 1,8260C	Analyst	: NLK
Lab File ID	: V05180614N20	Instrument ID	: VOA105
Sample Amount	: 0.1 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	250	70.	U
75-34-3	1,1-Dichloroethane	ND	250	70.	U
67-66-3	Chloroform	ND	250	70.	U
56-23-5	Carbon tetrachloride	ND	50	13.	U
78-87-5	1,2-Dichloropropane	ND	100	14.	U
124-48-1	Dibromochloromethane	ND	50	15.	U
79-00-5	1,1,2-Trichloroethane	ND	150	50.	U
127-18-4	Tetrachloroethene	12000	50	18.	
108-90-7	Chlorobenzene	ND	250	70.	U
75-69-4	Trichlorofluoromethane	ND	250	70.	U
107-06-2	1,2-Dichloroethane	ND	50	13.	U
71-55-6	1,1,1-Trichloroethane	ND	250	70.	U
75-27-4	Bromodichloromethane	ND	50	19.	U
10061-02-6	trans-1,3-Dichloropropene	ND	50	16.	U
10061-01-5	cis-1,3-Dichloropropene	ND	50	14.	U
75-25-2	Bromoform	ND	200	65.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	17.	U
71-43-2	Benzene	ND	50	16.	U
108-88-3	Toluene	ND	250	70.	U
100-41-4	Ethylbenzene	ND	250	70.	U
74-87-3	Chloromethane	ND	250	70.	U
74-83-9	Bromomethane	ND	250	70.	U
75-01-4	Vinyl chloride	20	100	7.1	J
75-00-3	Chloroethane	ND	250	70.	U
75-35-4	1,1-Dichloroethene	ND	50	17.	U
156-60-5	trans-1,2-Dichloroethene	ND	250	70.	U
79-01-6	Trichloroethene	930	50	18.	

Form 1
VOA

Client	: C.T. Male Associates	Lab Number	: L1821938
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: L1821938-01D	Date Collected	: 06/12/18 12:00
Client ID	: CTMMW-09__2018.06.12	Date Received	: 06/12/18
Sample Location	: GUILDERLAND, NY	Date Analyzed	: 06/15/18 02:38
Sample Matrix	: WATER	Dilution Factor	: 100
Analytical Method	: 1,8260C	Analyst	: NLK
Lab File ID	: V05180614N20	Instrument ID	: VOA105
Sample Amount	: 0.1 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	250	70.	U
541-73-1	1,3-Dichlorobenzene	ND	250	70.	U
106-46-7	1,4-Dichlorobenzene	ND	250	70.	U
1634-04-4	Methyl tert butyl ether	ND	250	70.	U
179601-23-1	p/m-Xylene	ND	250	70.	U
95-47-6	o-Xylene	ND	250	70.	U
156-59-2	cis-1,2-Dichloroethene	1100	250	70.	
100-42-5	Styrene	ND	250	70.	U
75-71-8	Dichlorodifluoromethane	ND	500	100	U
67-64-1	Acetone	ND	500	150	U
75-15-0	Carbon disulfide	ND	500	100	U
78-93-3	2-Butanone	ND	500	190	U
108-10-1	4-Methyl-2-pentanone	ND	500	100	U
591-78-6	2-Hexanone	ND	500	100	U
74-97-5	Bromochloromethane	ND	250	70.	U
106-93-4	1,2-Dibromoethane	ND	200	65.	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	250	70.	U
98-82-8	Isopropylbenzene	ND	250	70.	U
87-61-6	1,2,3-Trichlorobenzene	ND	250	70.	U
120-82-1	1,2,4-Trichlorobenzene	ND	250	70.	U
79-20-9	Methyl Acetate	ND	200	23.	U
110-82-7	Cyclohexane	ND	1000	27.	U
123-91-1	1,4-Dioxane	ND	25000	6100	U
76-13-1	Freon-113	ND	250	70.	U
108-87-2	Methyl cyclohexane	ND	1000	40.	U

Form 1
VOA

Client	: C.T. Male Associates	Lab Number	: L1821938
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: L1821938-02D	Date Collected	: 06/12/18 12:20
Client ID	: CTMMW-10__2018.06.12	Date Received	: 06/12/18
Sample Location	: GUILDERLAND, NY	Date Analyzed	: 06/15/18 03:28
Sample Matrix	: WATER	Dilution Factor	: 500
Analytical Method	: 1,8260C	Analyst	: NLK
Lab File ID	: V05180614N22	Instrument ID	: VOA105
Sample Amount	: 0.02 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	1200	350	U
75-34-3	1,1-Dichloroethane	ND	1200	350	U
67-66-3	Chloroform	ND	1200	350	U
56-23-5	Carbon tetrachloride	ND	250	67.	U
78-87-5	1,2-Dichloropropane	ND	500	68.	U
124-48-1	Dibromochloromethane	ND	250	74.	U
79-00-5	1,1,2-Trichloroethane	ND	750	250	U
127-18-4	Tetrachloroethene	58000	250	90.	
108-90-7	Chlorobenzene	ND	1200	350	U
75-69-4	Trichlorofluoromethane	ND	1200	350	U
107-06-2	1,2-Dichloroethane	ND	250	66.	U
71-55-6	1,1,1-Trichloroethane	ND	1200	350	U
75-27-4	Bromodichloromethane	ND	250	96.	U
10061-02-6	trans-1,3-Dichloropropene	ND	250	82.	U
10061-01-5	cis-1,3-Dichloropropene	ND	250	72.	U
75-25-2	Bromoform	ND	1000	320	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	84.	U
71-43-2	Benzene	ND	250	80.	U
108-88-3	Toluene	ND	1200	350	U
100-41-4	Ethylbenzene	ND	1200	350	U
74-87-3	Chloromethane	ND	1200	350	U
74-83-9	Bromomethane	ND	1200	350	U
75-01-4	Vinyl chloride	2500	500	36.	
75-00-3	Chloroethane	ND	1200	350	U
75-35-4	1,1-Dichloroethene	ND	250	84.	U
156-60-5	trans-1,2-Dichloroethene	ND	1200	350	U
79-01-6	Trichloroethene	1900	250	88.	

Form 1
VOA

Client	: C.T. Male Associates	Lab Number	: L1821938
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: L1821938-02D	Date Collected	: 06/12/18 12:20
Client ID	: CTMMW-10__2018.06.12	Date Received	: 06/12/18
Sample Location	: GUILDERLAND, NY	Date Analyzed	: 06/15/18 03:28
Sample Matrix	: WATER	Dilution Factor	: 500
Analytical Method	: 1,8260C	Analyst	: NLK
Lab File ID	: V05180614N22	Instrument ID	: VOA105
Sample Amount	: 0.02 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	1200	350	U
541-73-1	1,3-Dichlorobenzene	ND	1200	350	U
106-46-7	1,4-Dichlorobenzene	ND	1200	350	U
1634-04-4	Methyl tert butyl ether	ND	1200	350	U
179601-23-1	p/m-Xylene	ND	1200	350	U
95-47-6	o-Xylene	ND	1200	350	U
156-59-2	cis-1,2-Dichloroethene	6100	1200	350	
100-42-5	Styrene	ND	1200	350	U
75-71-8	Dichlorodifluoromethane	ND	2500	500	U
67-64-1	Acetone	ND	2500	730	U
75-15-0	Carbon disulfide	ND	2500	500	U
78-93-3	2-Butanone	ND	2500	970	U
108-10-1	4-Methyl-2-pentanone	ND	2500	500	U
591-78-6	2-Hexanone	ND	2500	500	U
74-97-5	Bromochloromethane	ND	1200	350	U
106-93-4	1,2-Dibromoethane	ND	1000	320	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	1200	350	U
98-82-8	Isopropylbenzene	ND	1200	350	U
87-61-6	1,2,3-Trichlorobenzene	ND	1200	350	U
120-82-1	1,2,4-Trichlorobenzene	ND	1200	350	U
79-20-9	Methyl Acetate	ND	1000	120	U
110-82-7	Cyclohexane	ND	5000	140	U
123-91-1	1,4-Dioxane	ND	120000	30000	U
76-13-1	Freon-113	ND	1200	350	U
108-87-2	Methyl cyclohexane	ND	5000	200	U

Form 1
VOA

Client	: C.T. Male Associates	Lab Number	: L1821938
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: L1821938-03	Date Collected	: 06/12/18 12:35
Client ID	: CTMMW-11__2018.06.12	Date Received	: 06/12/18
Sample Location	: GUILDERLAND, NY	Date Analyzed	: 06/15/18 02:12
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: NLK
Lab File ID	: V05180614N19	Instrument ID	: VOA105
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	0.74	0.50	0.18	
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	0.18	1.0	0.07	J
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U

Form 1
VOA

Client	: C.T. Male Associates	Lab Number	: L1821938
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: L1821938-03	Date Collected	: 06/12/18 12:35
Client ID	: CTMMW-11__2018.06.12	Date Received	: 06/12/18
Sample Location	: GUILDERLAND, NY	Date Analyzed	: 06/15/18 02:12
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: NLK
Lab File ID	: V05180614N19	Instrument ID	: VOA105
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Form 1
VOA

Client	: C.T. Male Associates	Lab Number	: L1821938
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: L1821938-04D	Date Collected	: 06/12/18 14:45
Client ID	: CTMMW-12__2018.06.12	Date Received	: 06/12/18
Sample Location	: GUILDERLAND, NY	Date Analyzed	: 06/15/18 03:03
Sample Matrix	: WATER	Dilution Factor	: 100
Analytical Method	: 1,8260C	Analyst	: NLK
Lab File ID	: V05180614N21	Instrument ID	: VOA105
Sample Amount	: 0.1 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	250	70.	U
75-34-3	1,1-Dichloroethane	ND	250	70.	U
67-66-3	Chloroform	ND	250	70.	U
56-23-5	Carbon tetrachloride	ND	50	13.	U
78-87-5	1,2-Dichloropropane	ND	100	14.	U
124-48-1	Dibromochloromethane	ND	50	15.	U
79-00-5	1,1,2-Trichloroethane	ND	150	50.	U
127-18-4	Tetrachloroethene	15000	50	18.	
108-90-7	Chlorobenzene	ND	250	70.	U
75-69-4	Trichlorofluoromethane	ND	250	70.	U
107-06-2	1,2-Dichloroethane	ND	50	13.	U
71-55-6	1,1,1-Trichloroethane	ND	250	70.	U
75-27-4	Bromodichloromethane	ND	50	19.	U
10061-02-6	trans-1,3-Dichloropropene	ND	50	16.	U
10061-01-5	cis-1,3-Dichloropropene	ND	50	14.	U
75-25-2	Bromoform	ND	200	65.	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	17.	U
71-43-2	Benzene	ND	50	16.	U
108-88-3	Toluene	ND	250	70.	U
100-41-4	Ethylbenzene	ND	250	70.	U
74-87-3	Chloromethane	ND	250	70.	U
74-83-9	Bromomethane	ND	250	70.	U
75-01-4	Vinyl chloride	150	100	7.1	
75-00-3	Chloroethane	ND	250	70.	U
75-35-4	1,1-Dichloroethene	ND	50	17.	U
156-60-5	trans-1,2-Dichloroethene	ND	250	70.	U
79-01-6	Trichloroethene	2200	50	18.	

Form 1
VOA

Client	: C.T. Male Associates	Lab Number	: L1821938
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: L1821938-04D	Date Collected	: 06/12/18 14:45
Client ID	: CTMMW-12__2018.06.12	Date Received	: 06/12/18
Sample Location	: GUILDERLAND, NY	Date Analyzed	: 06/15/18 03:03
Sample Matrix	: WATER	Dilution Factor	: 100
Analytical Method	: 1,8260C	Analyst	: NLK
Lab File ID	: V05180614N21	Instrument ID	: VOA105
Sample Amount	: 0.1 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	250	70.	U
541-73-1	1,3-Dichlorobenzene	ND	250	70.	U
106-46-7	1,4-Dichlorobenzene	ND	250	70.	U
1634-04-4	Methyl tert butyl ether	ND	250	70.	U
179601-23-1	p/m-Xylene	ND	250	70.	U
95-47-6	o-Xylene	ND	250	70.	U
156-59-2	cis-1,2-Dichloroethene	1400	250	70.	
100-42-5	Styrene	ND	250	70.	U
75-71-8	Dichlorodifluoromethane	ND	500	100	U
67-64-1	Acetone	ND	500	150	U
75-15-0	Carbon disulfide	ND	500	100	U
78-93-3	2-Butanone	ND	500	190	U
108-10-1	4-Methyl-2-pentanone	ND	500	100	U
591-78-6	2-Hexanone	ND	500	100	U
74-97-5	Bromochloromethane	ND	250	70.	U
106-93-4	1,2-Dibromoethane	ND	200	65.	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	250	70.	U
98-82-8	Isopropylbenzene	ND	250	70.	U
87-61-6	1,2,3-Trichlorobenzene	ND	250	70.	U
120-82-1	1,2,4-Trichlorobenzene	ND	250	70.	U
79-20-9	Methyl Acetate	ND	200	23.	U
110-82-7	Cyclohexane	ND	1000	27.	U
123-91-1	1,4-Dioxane	ND	25000	6100	U
76-13-1	Freon-113	ND	250	70.	U
108-87-2	Methyl cyclohexane	ND	1000	40.	U

Form 1
VOA

Client	: C.T. Male Associates	Lab Number	: L1821938
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: L1821938-05	Date Collected	: 06/12/18 00:00
Client ID	: TRANSPORT BLANK	Date Received	: 06/12/18
Sample Location	: GUILDERLAND, NY	Date Analyzed	: 06/14/18 20:45
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: NLK
Lab File ID	: V05180614N06	Instrument ID	: VOA105
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U

Form 1
VOA

Client	: C.T. Male Associates	Lab Number	: L1821938
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: L1821938-05	Date Collected	: 06/12/18 00:00
Client ID	: TRANSPORT BLANK	Date Received	: 06/12/18
Sample Location	: GUILDERLAND, NY	Date Analyzed	: 06/14/18 20:45
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: NLK
Lab File ID	: V05180614N06	Instrument ID	: VOA105
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Form 1
VOA

Client	: C.T. Male Associates	Lab Number	: L1821938
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: WG1126396-5	Date Collected	: NA
Client ID	: WG1126396-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 06/14/18 20:20
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: KD
Lab File ID	: V05180614N05	Instrument ID	: VOA105
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U

Form 1
VOA

Client	: C.T. Male Associates	Lab Number	: L1821938
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: WG1126396-5	Date Collected	: NA
Client ID	: WG1126396-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 06/14/18 20:20
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: KD
Lab File ID	: V05180614N05	Instrument ID	: VOA105
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/L			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U
123-91-1	1,4-Dioxane	ND	250	61.	U
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N06.d
Acq On : 14 Jun 2018 8:45 pm
Operator : VOA105:NLK
Sample : l1821938-05,31,10,10,,a
Misc : WG1126396,ICAL14750
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 08:45:43 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.154	96	648757	10.000	ug/L	0.00
Standard Area 1 = 682856			Recovery = 95.01%			
59) Chlorobenzene-d5	9.686	117	496935	10.000	ug/L	0.00
Standard Area 1 = 526943			Recovery = 94.31%			
79) 1,4-Dichlorobenzene-d4	12.361	152	242147	10.000	ug/L	0.00
Standard Area 1 = 267847			Recovery = 90.40%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.342	113	168360	9.663	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.63%			
43) 1,2-Dichloroethane-d4	5.870	65	196488	9.506	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.06%			
60) Toluene-d8	7.836	98	633091	9.808	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.08%			
83) 4-Bromofluorobenzene	11.165	95	231438	10.095	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.95%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D. d		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.320	94	91	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	3.102	76	2848	0.122	ug/L #	81
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.640	84	267	N.D.		
17) Acetone	3.709	43	989	Below Cal	#	52
18) trans-1,2-Dichloroethene	3.787	96	209	N.D.		
19) Methyl acetate	0.000		0	N.D. d		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N06.d
Acq On : 14 Jun 2018 8:45 pm
Operator : VOA105:NLK
Sample : l1821938-05,31,10,10,,a
Misc : WG1126396,ICAL14750
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 08:45:43 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	0.000		0	N.D.		
41) Benzene	5.733	78	113	N.D.		
44) 1,2-Dichloroethane	5.939	62	553	N.D.		
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	6.320	95	327	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	7.905	92	249	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.745	91	431	N.D.		
76) p/m Xylene	9.931	106	319	N.D.		
77) o Xylene	10.470	106	112	N.D.		
78) Styrene	10.558	104	101	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	10.842	105	517	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	12.292	146	255	N.D.		
101) 1,4-Dichlorobenzene	12.370	146	626	N.D.		
104) 1,2-Dichlorobenzene	12.801	146	203	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	14.202	180	568	N.D.		
111) 1,2,3-Trichlorobenzene	14.663	180	589	0.086	ug/L	# 86

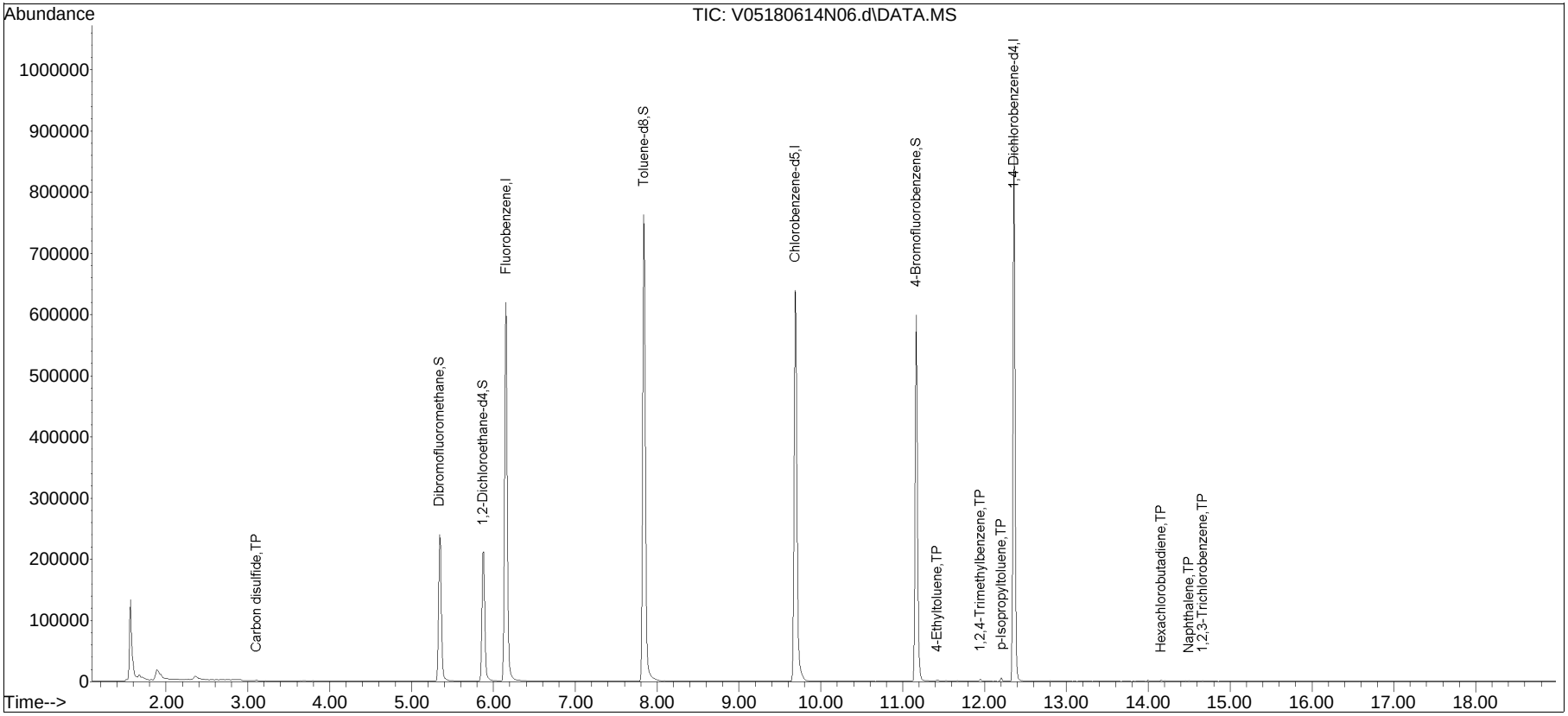
(#) = qualifier out of range (m) = manual integration (+) = signals summed

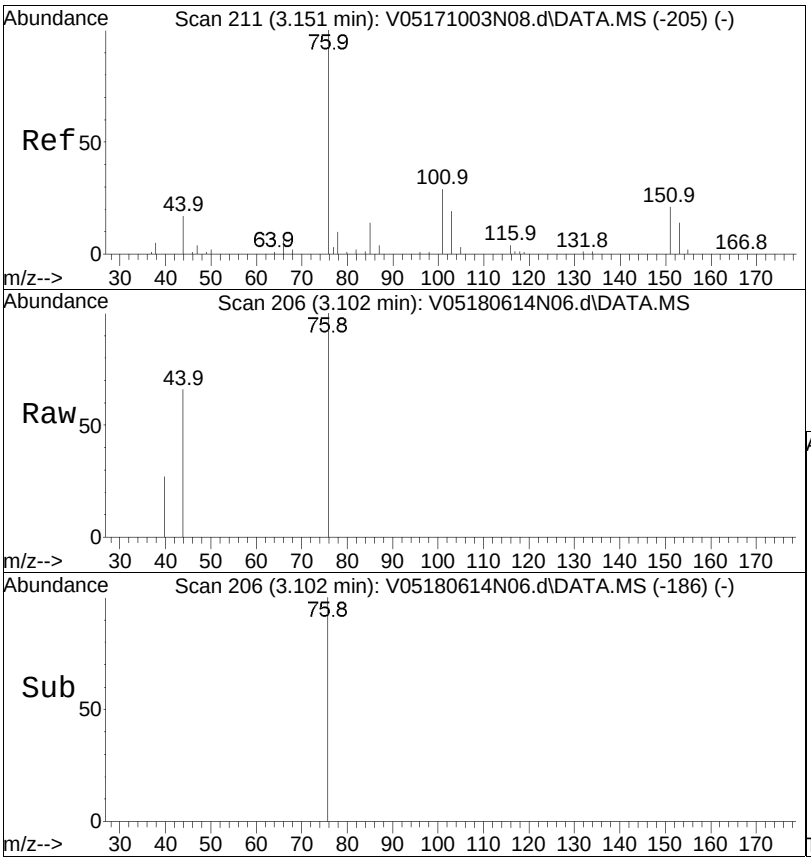
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N06.d
Acq On : 14 Jun 2018 8:45 pm
Operator : VOA105:NLK
Sample : l1821938-05,31,10,10,,a
Misc : WG1126396,ICAL14750
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 15 08:45:43 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox80614N\V05180614N02.d•

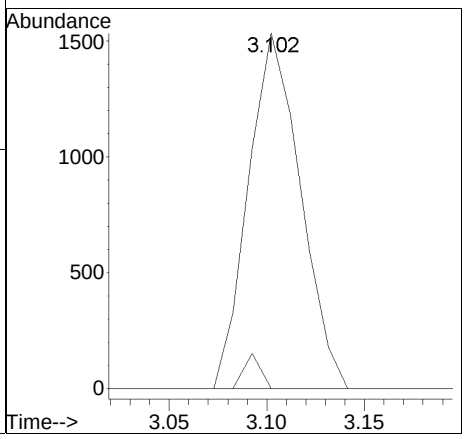


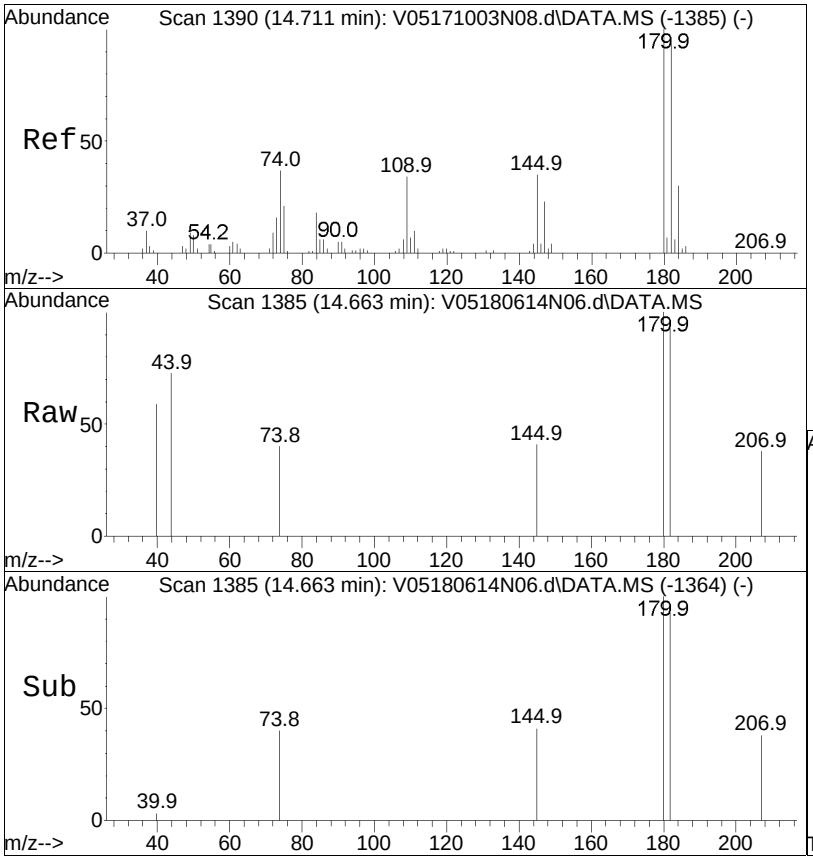


#11
Carbon disulfide
Concen: 0.12 ug/L
RT: 3.102 min Scan# 206
Delta R.T. 0.000 min
Lab File: V05180614N06.d
Acq: 14 Jun 2018 8:45 pm

Tgt Ion: 76 Resp: 2848

Ion	Ratio	Lower	Upper
76	100		
78	3.1	6.7	13.9#

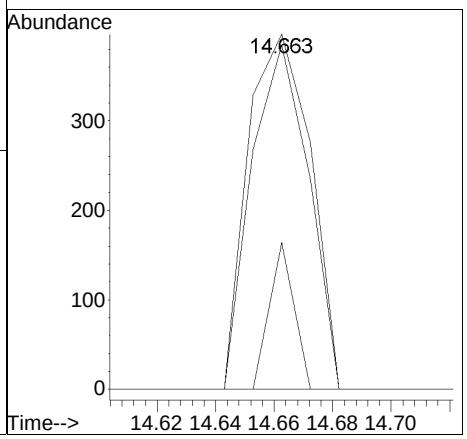




#111
1,2,3-Trichlorobenzene
Concen: 0.09 ug/L
RT: 14.663 min Scan# 1385
Delta R.T. 0.010 min
Lab File: V05180614N06.d
Acq: 14 Jun 2018 8:45 pm

Tgt Ion:180 Resp: 589

Ion	Ratio	Lower	Upper
180	100		
182	88.6	76.2	114.2
145	16.3	28.2	42.2#



Manual Integration Report

Data Path	: I:\VOLATILES\VOA105\2018\1	QMethod	: V105_180530N_8260.m
Data File	: V05180614N06.d	Operator	: VOA105:NLK
Date Inj'd	: 6/14/2018 8:45 pm	Instrument	: VOA 105
Sample	: l1821938-05,31,10,10,,a	Quant Date	: 6/15/2018 8:12 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N19.d
Acq On : 15 Jun 2018 2:12 am
Operator : VOA105:NLK
Sample : l1821938-03,31,10,10,,a
Misc : WG1126396,ICAL14750
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 15 08:57:26 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.154	96	577351	10.000	ug/L	0.00
Standard Area 1 = 682856			Recovery =	84.55%		
59) Chlorobenzene-d5	9.686	117	445482	10.000	ug/L	0.00
Standard Area 1 = 526943			Recovery =	84.54%		
79) 1,4-Dichlorobenzene-d4	12.360	152	221416	10.000	ug/L	0.00
Standard Area 1 = 267847			Recovery =	82.67%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.342	113	153430	9.896	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.96%		
43) 1,2-Dichloroethane-d4	5.880	65	184033	10.005	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.05%		
60) Toluene-d8	7.836	98	568946	9.832	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.32%		
83) 4-Bromofluorobenzene	11.165	95	210279	10.031	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.31%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D. d		
4) Vinyl chloride	1.997	62	1655	0.180	ug/L #	41
5) Bromomethane	2.320	94	90	N.D.		
6) Chloroethane	0.000		0	N.D. d		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D. d		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.689	43	4511	1.437	ug/L	94
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D. d		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.912	96	2092	0.181	ug/L	93
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N19.d
Acq On : 15 Jun 2018 2:12 am
Operator : VOA105:NLK
Sample : l1821938-03,31,10,10,,a
Misc : WG1126396,ICAL14750
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 15 08:57:26 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	0.000		0	N.D.	d	
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	5.948	62	528	N.D.		
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.	d	
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	8.345	166	8764	0.735	ug/L	93
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	9.245	43	95	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	9.745	91	89	N.D.		
76) p/m Xylene	9.941	106	103	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	12.282	146	183	N.D.		
101) 1,4-Dichlorobenzene	12.370	146	94	N.D.		
104) 1,2-Dichlorobenzene	0.000		0	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

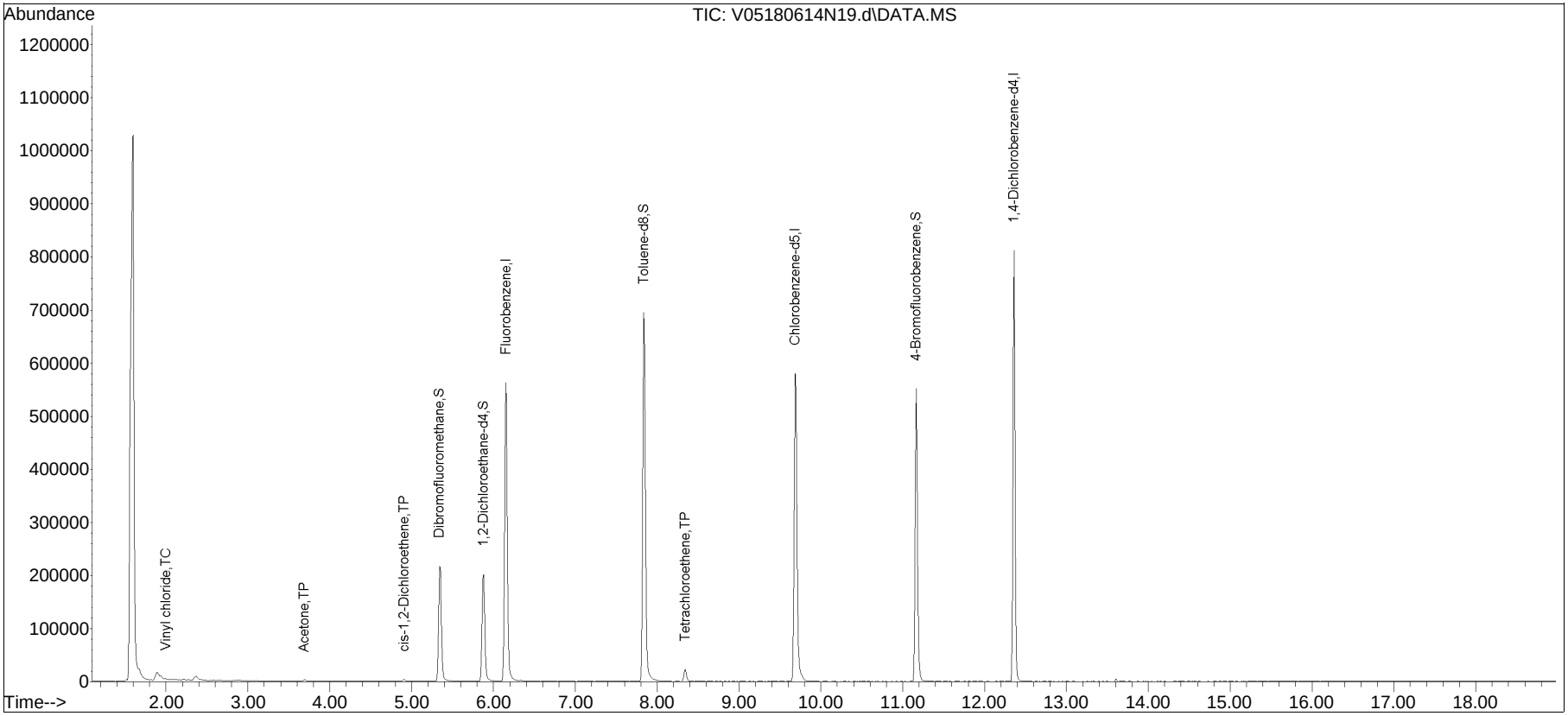
(#) = qualifier out of range (m) = manual integration (+) = signals summed

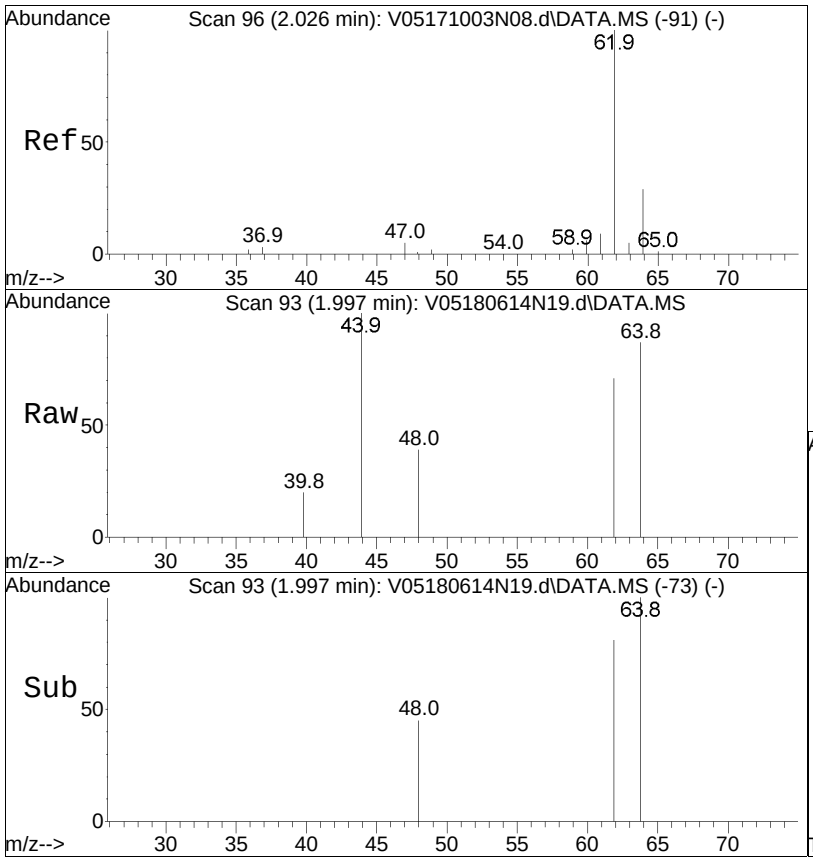
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N19.d
Acq On : 15 Jun 2018 2:12 am
Operator : VOA105:NLK
Sample : l1821938-03,31,10,10,,a
Misc : WG1126396,ICAL14750
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 15 08:57:26 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox80614N\V05180614N02.d•

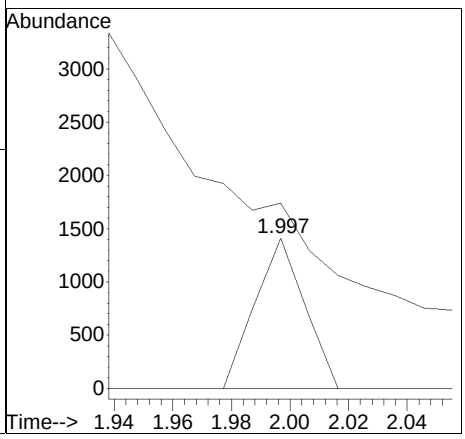


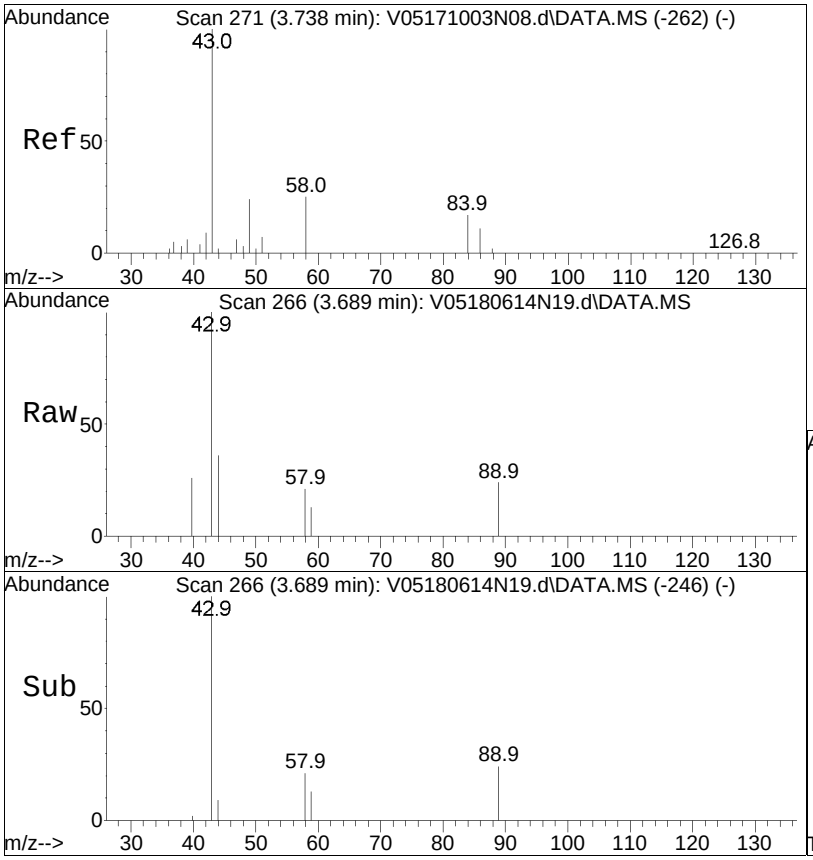


#4
Vinyl chloride
Concen: 0.18 ug/L
RT: 1.997 min Scan# 93
Delta R.T. -0.000 min
Lab File: V05180614N19.d
Acq: 15 Jun 2018 2:12 am

Tgt Ion: 62 Resp: 1655

Ion	Ratio	Lower	Upper
62	100		
64	0.0	13.8	53.8#

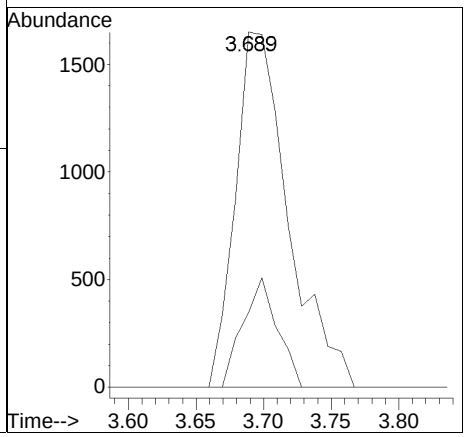


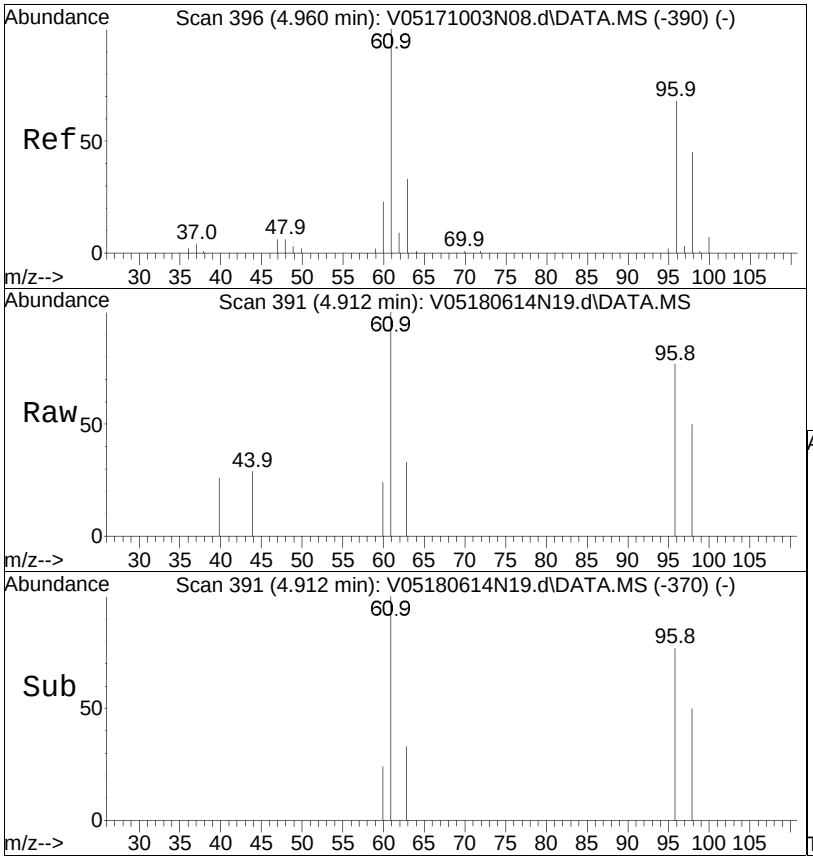


#17
Acetone
Concen: 1.44 ug/L
RT: 3.689 min Scan# 266
Delta R.T. -0.000 min
Lab File: V05180614N19.d
Acq: 15 Jun 2018 2:12 am

Tgt Ion: 43 Resp: 4511

Ion	Ratio	Lower	Upper
43	100		
58	20.1	18.5	27.7

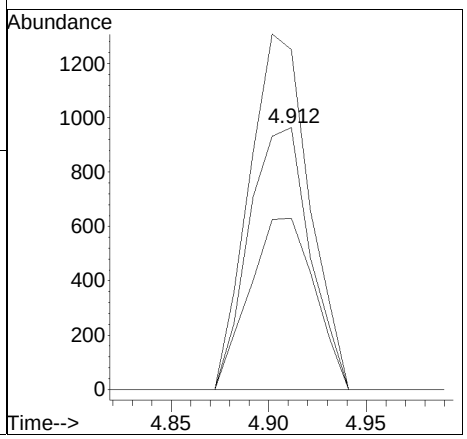


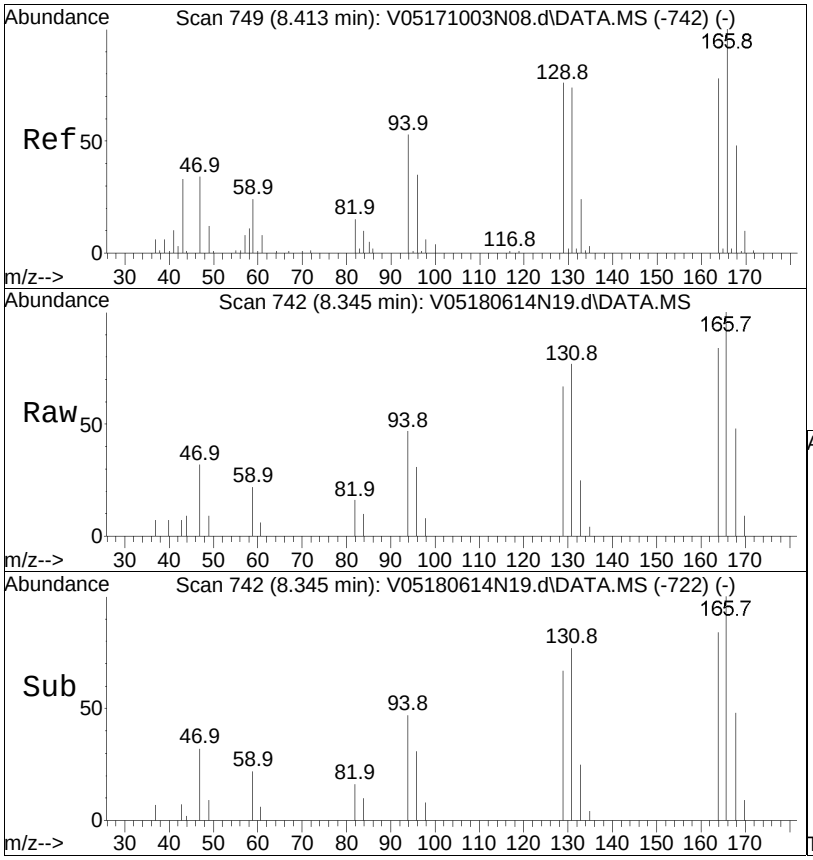


#28
cis-1,2-Dichloroethene
Concen: 0.18 ug/L
RT: 4.912 min Scan# 391
Delta R.T. 0.010 min
Lab File: V05180614N19.d
Acq: 15 Jun 2018 2:12 am

Tgt Ion: 96 Resp: 2092

Ion	Ratio	Lower	Upper
96	100		
61	133.8	113.7	170.5
98	69.6	51.2	76.8

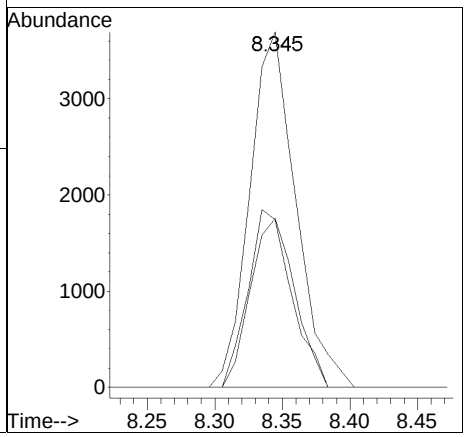




#63
Tetrachloroethene
Concen: 0.73 ug/L
RT: 8.345 min Scan# 742
Delta R.T. -0.000 min
Lab File: V05180614N19.d
Acq: 15 Jun 2018 2:12 am

Tgt Ion:166 Resp: 8764

Ion	Ratio	Lower	Upper
166	100		
168	45.9	27.2	67.2
94	47.2	35.8	75.8



Manual Integration Report

Data Path	: I:\VOLATILES\VOA105\2018\1	QMethod	: V105_180530N_8260.m
Data File	: V05180614N19.d	Operator	: VOA105:NLK
Date Inj'd	: 6/15/2018 2:12 am	Instrument	: VOA 105
Sample	: l1821938-03,31,10,10,,a	Quant Date	: 6/15/2018 8:13 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N20.d
Acq On : 15 Jun 2018 2:38 am
Operator : VOA105:NLK
Sample : l1821938-01D,31,0.1,10,,a
Misc : WG1126396,ICAL14750
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 15 08:57:54 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.154	96	581903	10.000 ug/L	0.00
Standard Area 1 = 682856			Recovery =	85.22%	
59) Chlorobenzene-d5	9.686	117	447953	10.000 ug/L	0.00
Standard Area 1 = 526943			Recovery =	85.01%	
79) 1,4-Dichlorobenzene-d4	12.360	152	216245	10.000 ug/L	0.00
Standard Area 1 = 267847			Recovery =	80.73%	
System Monitoring Compounds					
36) Dibromofluoromethane	5.352	113	151152	9.672 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.72%	
43) 1,2-Dichloroethane-d4	5.880	65	180339	9.727 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.27%	
60) Toluene-d8	7.836	98	566962	9.744 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.44%	
83) 4-Bromofluorobenzene	11.165	95	206434	10.083 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.83%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	0.000		0	N.D. d	
4) Vinyl chloride	1.997	62	1874	0.202 ug/L #	41
5) Bromomethane	0.000		0	N.D.	
6) Chloroethane	2.437	64	107	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	3.073	96	109	N.D.	
11) Carbon disulfide	0.000		0	N.D. d	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.640	84	1275	0.122 ug/L	94
17) Acetone	3.708	43	972	Below Cal #	52
18) trans-1,2-Dichloroethene	3.797	96	1519	0.145 ug/L	93
19) Methyl acetate	0.000		0	N.D. d	
20) Methyl tert-butyl ether	0.000		0	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	4.902	96	124340	10.687 ug/L	97
30) Bromochloromethane	0.000		0	N.D.	
31) Cyclohexane	0.000		0	N.D.	
32) Chloroform	0.000		0	N.D.	
34) Carbon tetrachloride	0.000		0	N.D.	

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N20.d
Acq On : 15 Jun 2018 2:38 am
Operator : VOA105:NLK
Sample : l1821938-01D,31,0.1,10,,a
Misc : WG1126396,ICAL14750
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 15 08:57:54 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	0.000		0	N.D.		
41)	Benzene	0.000		0	N.D.		
44)	1,2-Dichloroethane	5.948	62	598	N.D.		
47)	Methyl cyclohexane	0.000		0	N.D.	d	
48)	Trichloroethene	6.330	95	111680	9.287	ug/L	95
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
57)	1,4-Dioxane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	0.000		0	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.	d	
63)	Tetrachloroethene	8.345	166	1380926	115.131	ug/L	94
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	0.000		0	N.D.		
73)	Chlorobenzene	0.000		0	N.D.		
74)	Ethylbenzene	9.696	91	790	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	0.000		0	N.D.		
101)	1,4-Dichlorobenzene	0.000		0	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

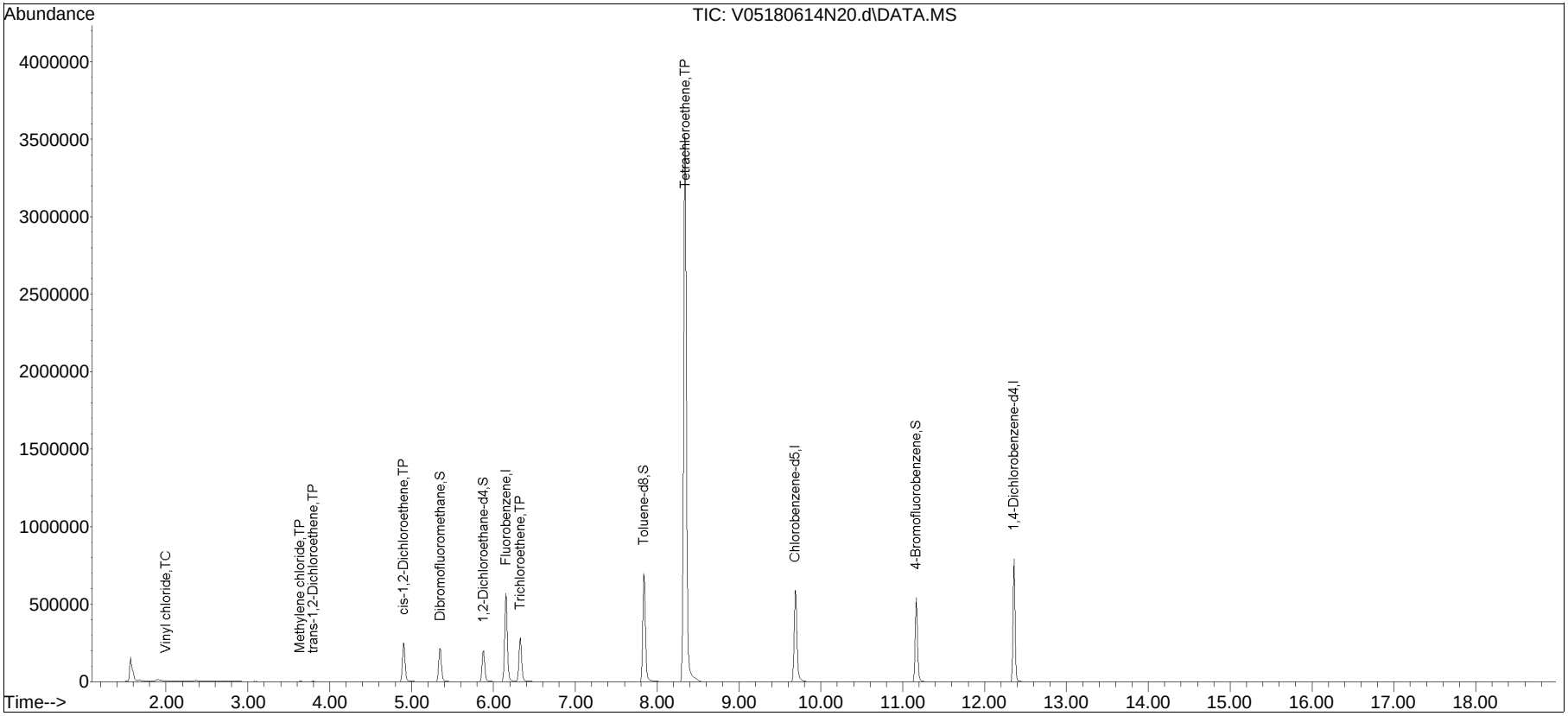
(#) = qualifier out of range (m) = manual integration (+) = signals summed

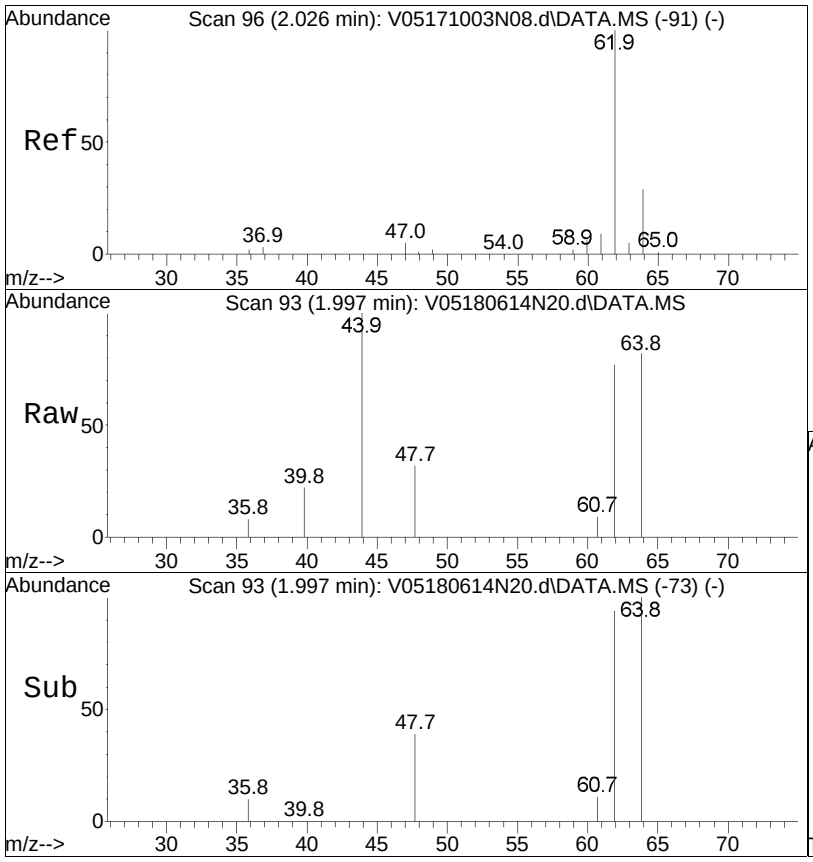
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N20.d
Acq On : 15 Jun 2018 2:38 am
Operator : VOA105:NLK
Sample : l1821938-01D,31,0.1,10,,a
Misc : WG1126396,ICAL14750
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 15 08:57:54 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox80614N\V05180614N02.d•

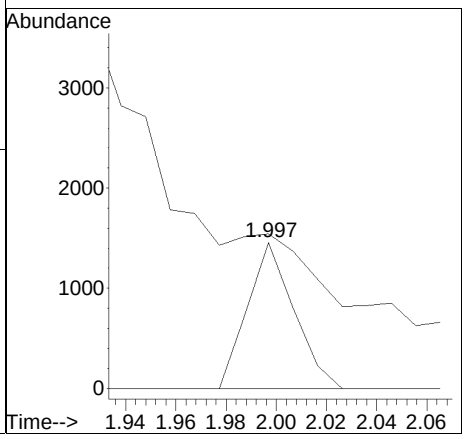


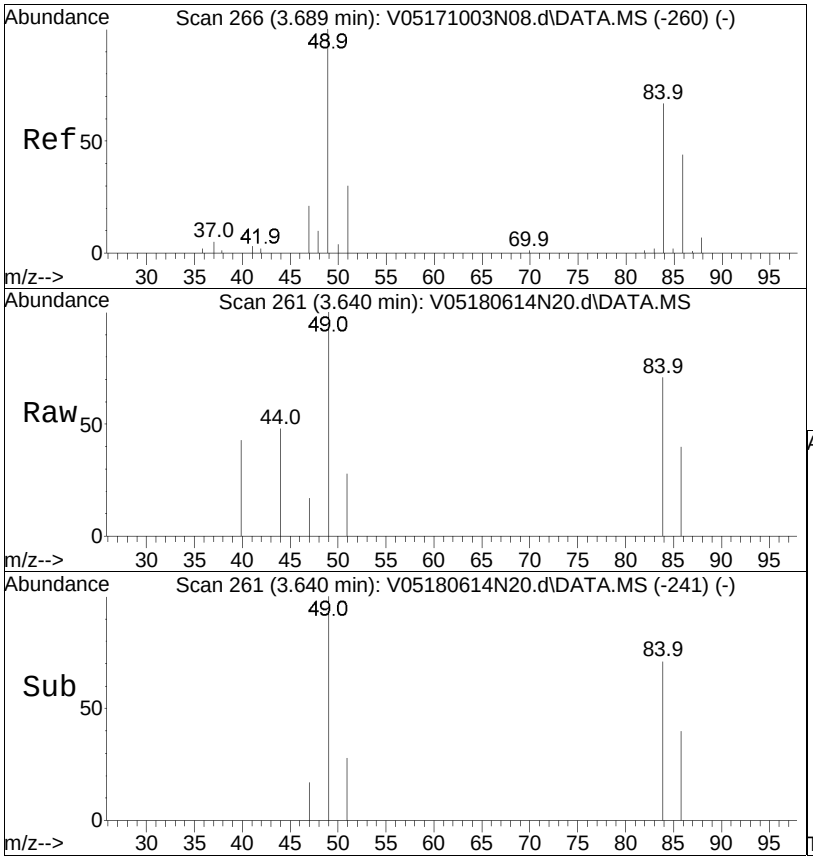


#4
Vinyl chloride
Concen: 0.20 ug/L
RT: 1.997 min Scan# 93
Delta R.T. -0.000 min
Lab File: V05180614N20.d
Acq: 15 Jun 2018 2:38 am

Tgt Ion: 62 Resp: 1874

Ion	Ratio	Lower	Upper
62	100		
64	0.0	13.8	53.8#

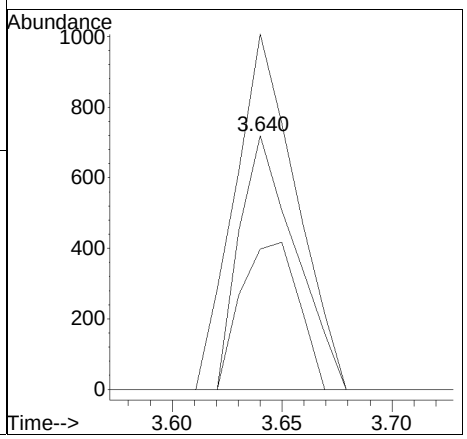


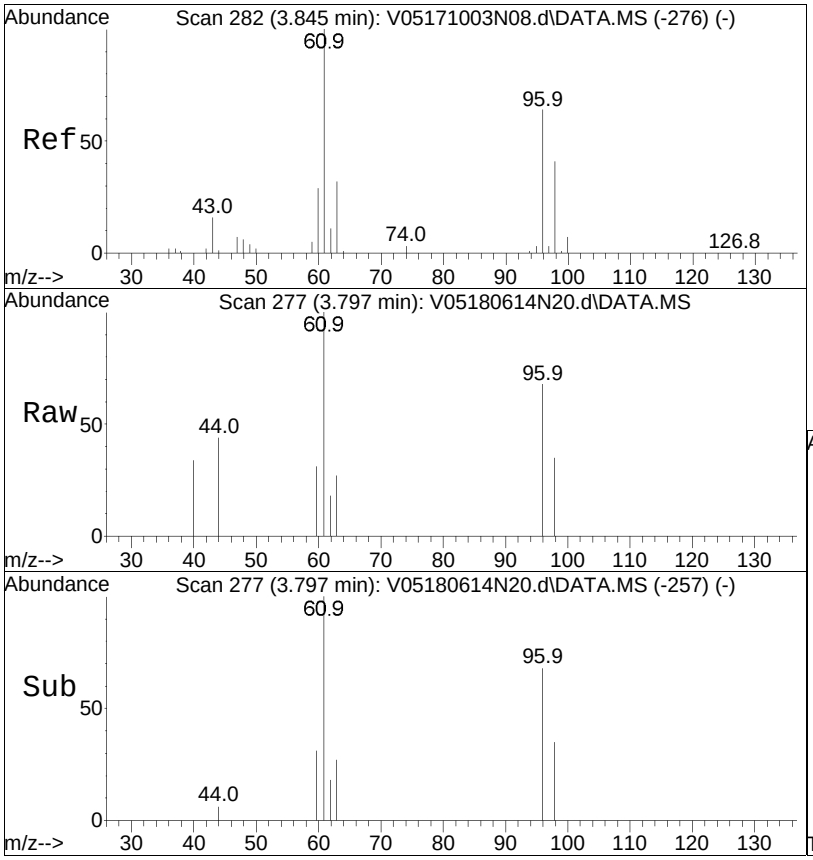


#15
Methylene chloride
Concen: 0.12 ug/L
RT: 3.640 min Scan# 261
Delta R.T. 0.000 min
Lab File: V05180614N20.d
Acq: 15 Jun 2018 2:38 am

Tgt Ion: 84 Resp: 1275

Ion	Ratio	Lower	Upper
84	100		
86	59.8	41.9	86.9
49	154.0	95.1	197.5

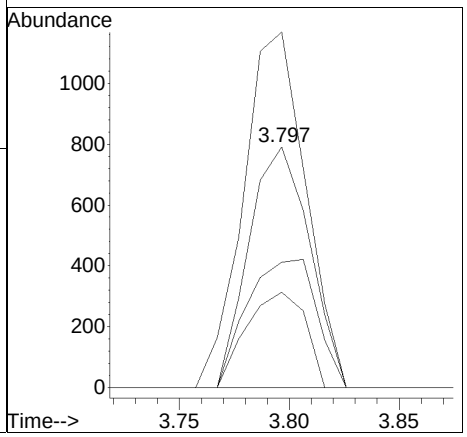


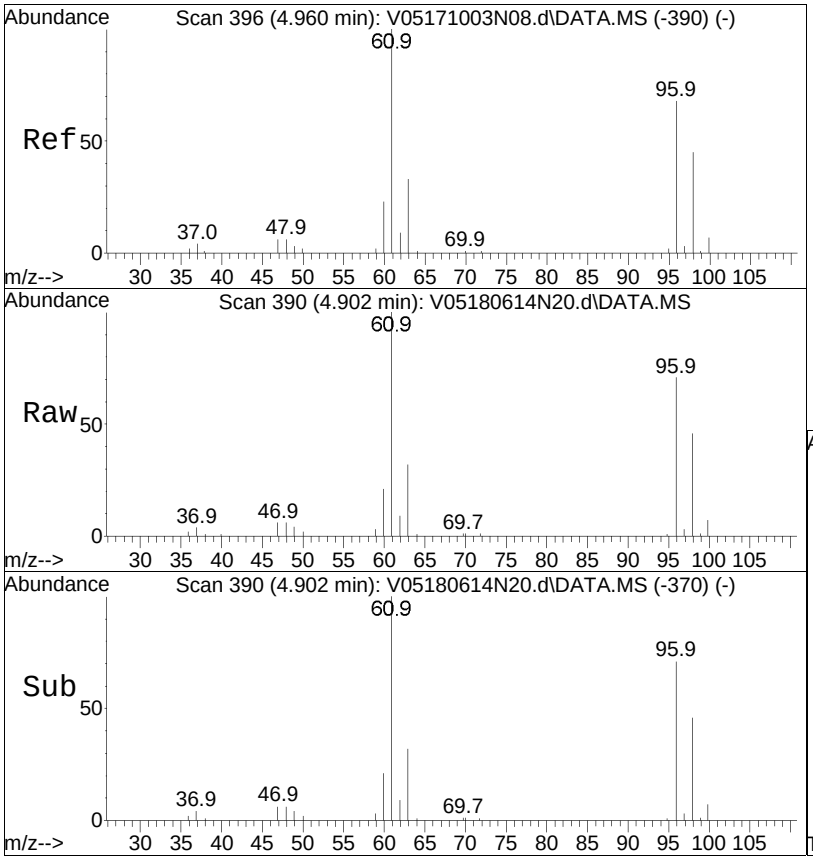


#18
trans-1,2-Dichloroethene
Concen: 0.14 ug/L
RT: 3.797 min Scan# 277
Delta R.T. -0.000 min
Lab File: V05180614N20.d
Acq: 15 Jun 2018 2:38 am

Tgt Ion: 96 Resp: 1519

Ion	Ratio	Lower	Upper
96	100		
61	151.8	102.0	211.8
98	60.6	41.9	87.1
63	38.4	32.6	67.8

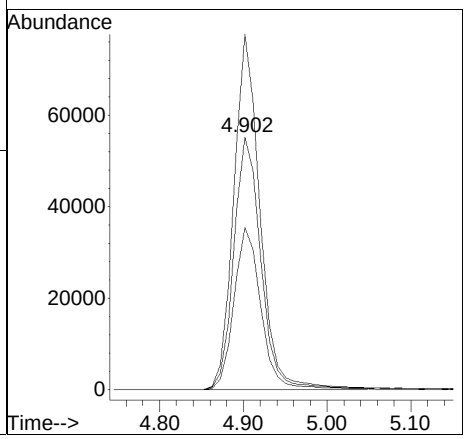


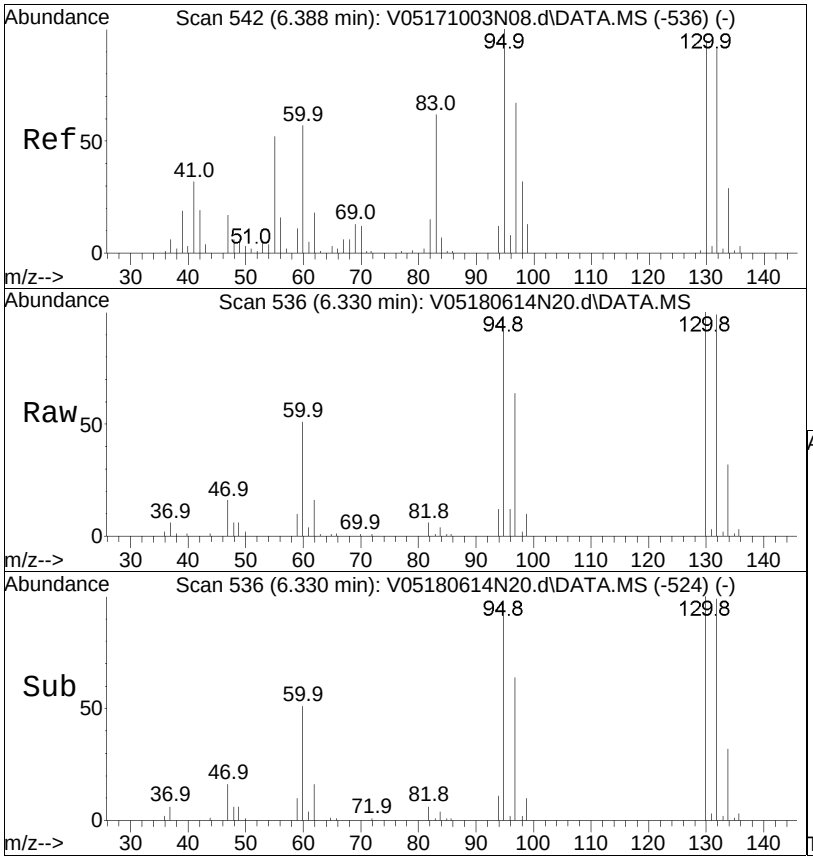


#28
cis-1,2-Dichloroethene
Concen: 10.69 ug/L
RT: 4.902 min Scan# 390
Delta R.T. -0.000 min
Lab File: V05180614N20.d
Acq: 15 Jun 2018 2:38 am

Tgt Ion: 96 Resp: 124340

Ion	Ratio	Lower	Upper
96	100		
61	136.1	113.7	170.5
98	63.7	51.2	76.8

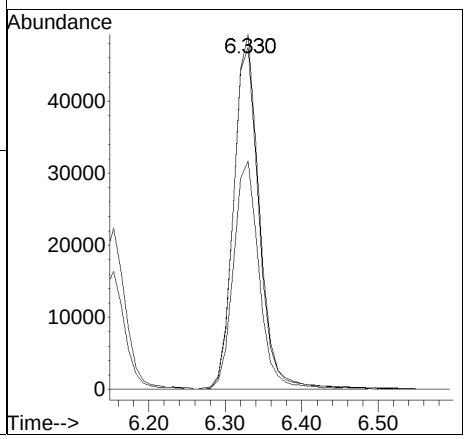


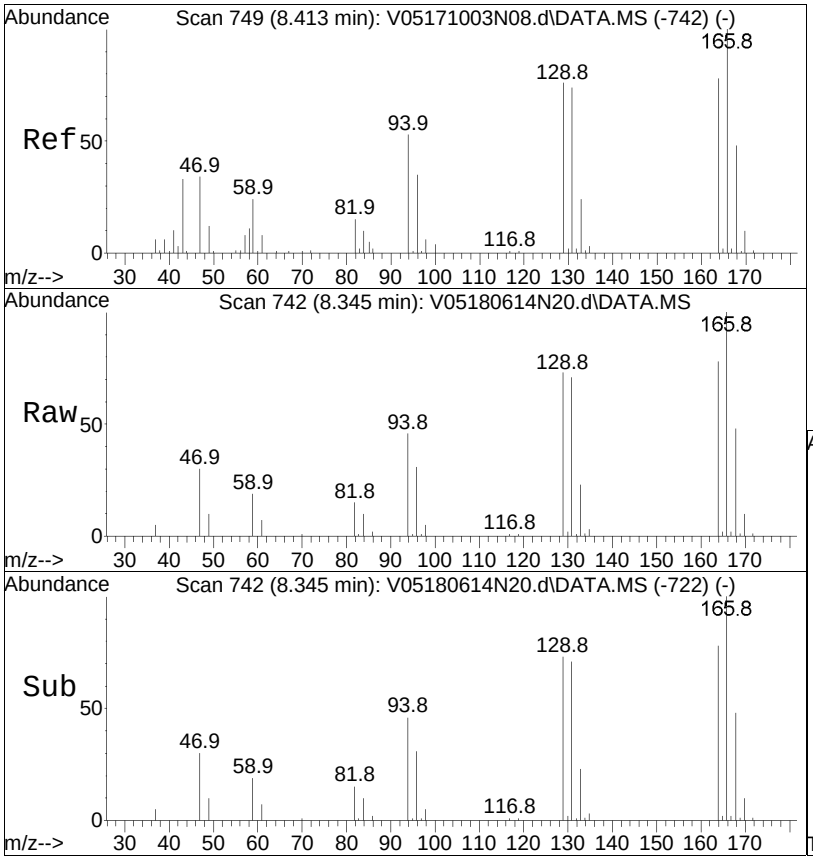


#48
Trichloroethene
Concen: 9.29 ug/L
RT: 6.330 min Scan# 536
Delta R.T. -0.000 min
Lab File: V05180614N20.d
Acq: 15 Jun 2018 2:38 am

Tgt Ion: 95 Resp: 111680

Ion	Ratio	Lower	Upper
95	100		
97	66.9	53.5	80.3
130	103.1	75.9	113.9

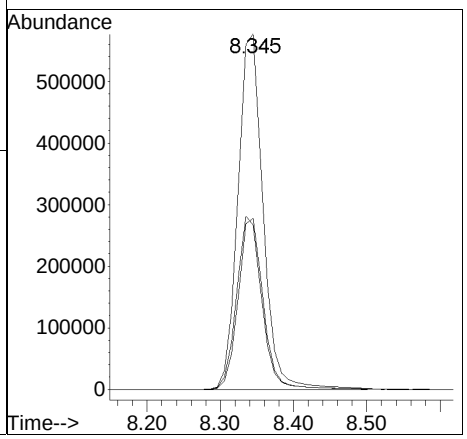




#63
Tetrachloroethene
Concen: 115.13 ug/L
RT: 8.345 min Scan# 742
Delta R.T. -0.000 min
Lab File: V05180614N20.d
Acq: 15 Jun 2018 2:38 am

Tgt Ion:166 Resp: 1380926

Ion	Ratio	Lower	Upper
166	100		
168	48.0	27.2	67.2
94	48.7	35.8	75.8



Manual Integration Report

Data Path	: I:\VOLATILES\VOA105\2018\1	QMethod	: V105_180530N_8260.m
Data File	: V05180614N20.d	Operator	: VOA105:NLK
Date Inj'd	: 6/15/2018 2:38 am	Instrument	: VOA 105
Sample	: l1821938-01D,31,0.1,10,,a	Quant Date	: 6/15/2018 8:13 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N21.d
Acq On : 15 Jun 2018 3:03 am
Operator : VOA105:NLK
Sample : l1821938-04D,31,0.1,10,,a
Misc : WG1126396,ICAL14750
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 15 08:58:39 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.154	96	579598	10.000 ug/L	0.00
Standard Area 1 = 682856			Recovery =	84.88%	
59) Chlorobenzene-d5	9.686	117	448111	10.000 ug/L	0.00
Standard Area 1 = 526943			Recovery =	85.04%	
79) 1,4-Dichlorobenzene-d4	12.360	152	215032	10.000 ug/L	0.00
Standard Area 1 = 267847			Recovery =	80.28%	
System Monitoring Compounds					
36) Dibromofluoromethane	5.342	113	152727	9.812 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.12%	
43) 1,2-Dichloroethane-d4	5.880	65	180960	9.800 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.00%	
60) Toluene-d8	7.836	98	564370	9.696 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.96%	
83) 4-Bromofluorobenzene	11.165	95	204755	10.058 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.58%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.909	50	568	N.D.	
4) Vinyl chloride	1.997	62	13879	1.502 ug/L #	53
5) Bromomethane	2.320	94	88	N.D.	
6) Chloroethane	2.447	64	317	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	3.073	96	400	N.D.	
11) Carbon disulfide	0.000		0	N.D. d	
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.650	84	1455	0.140 ug/L	96
17) Acetone	3.699	43	912	Below Cal #	52
18) trans-1,2-Dichloroethene	3.797	96	437	N.D.	
19) Methyl acetate	3.875	43	109	N.D.	
20) Methyl tert-butyl ether	3.885	73	938	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	4.902	96	158558	13.683 ug/L	96
30) Bromochloromethane	0.000		0	N.D.	
31) Cyclohexane	0.000		0	N.D.	
32) Chloroform	0.000		0	N.D.	
34) Carbon tetrachloride	0.000		0	N.D.	

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N21.d
Acq On : 15 Jun 2018 3:03 am
Operator : VOA105:NLK
Sample : l1821938-04D,31,0.1,10,,a
Misc : WG1126396,ICAL14750
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 15 08:58:39 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	5.469	43	111	N.D.		
41) Benzene	5.733	78	101	N.D.		
44) 1,2-Dichloroethane	5.948	62	431	N.D.		
47) Methyl cyclohexane	0.000		0	N.D. d		
48) Trichloroethene	6.330	95	260229	21.726	ug/L	94
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	7.895	92	4534	0.161	ug/L	92
62) 4-Methyl-2-pentanone	0.000		0	N.D. d		
63) Tetrachloroethene	8.345	166	1759616	146.652	ug/L	94
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	9.706	112	113	N.D.		
74) Ethylbenzene	9.755	91	224	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	10.832	105	112	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	12.380	146	99	N.D.		
101) 1,4-Dichlorobenzene	12.380	146	99	N.D.		
104) 1,2-Dichlorobenzene	0.000		0	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

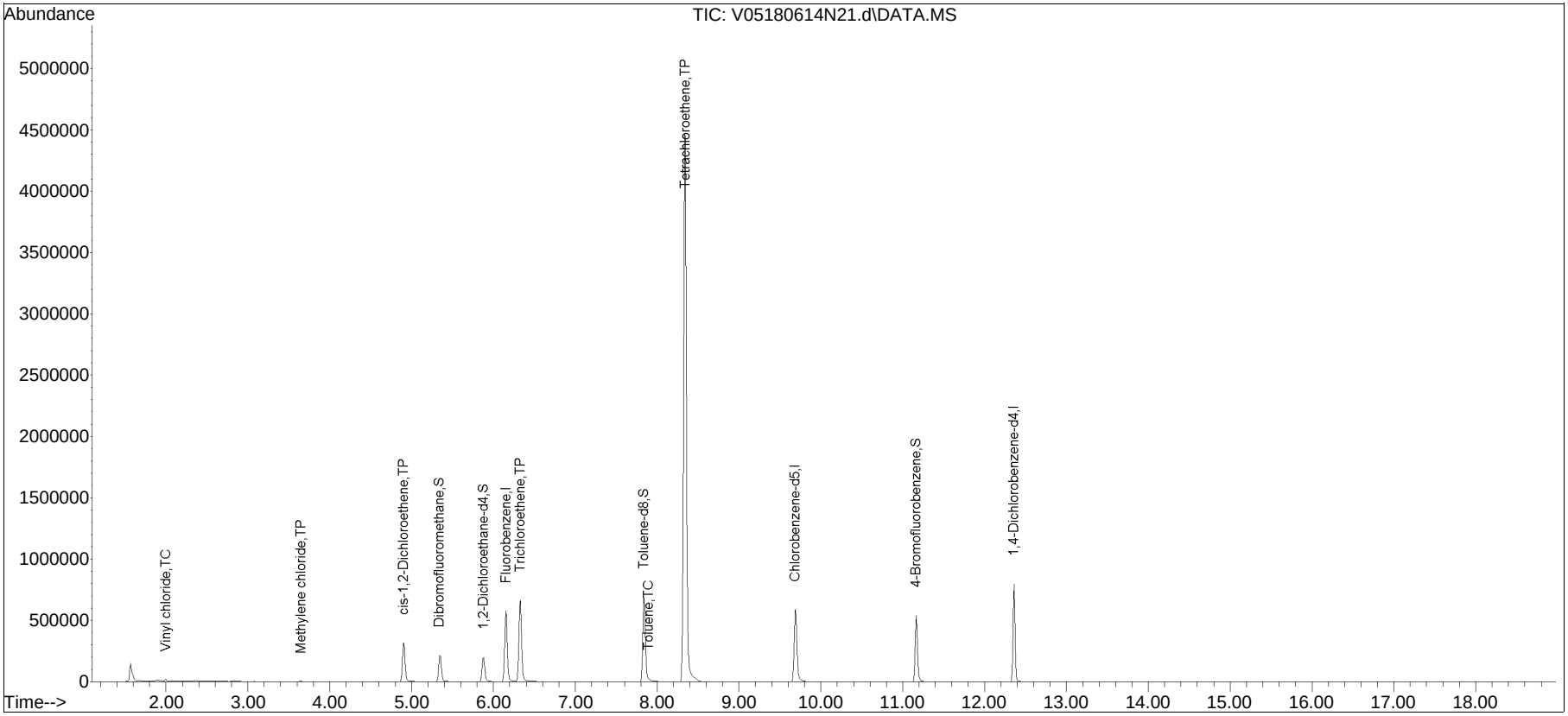
(#) = qualifier out of range (m) = manual integration (+) = signals summed

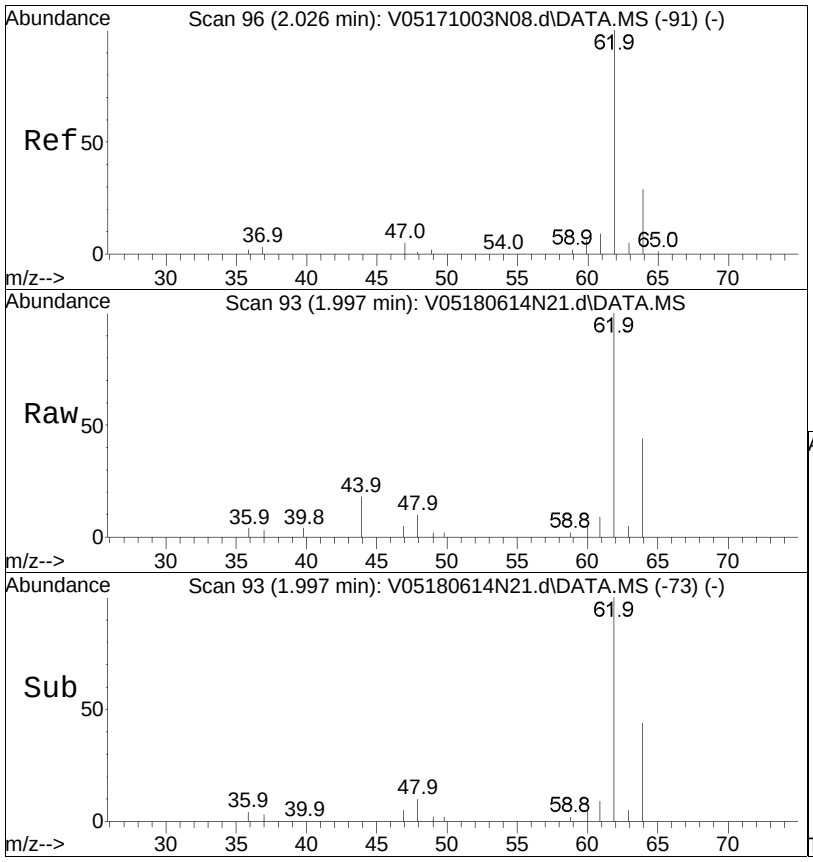
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N21.d
Acq On : 15 Jun 2018 3:03 am
Operator : VOA105:NLK
Sample : l1821938-04D,31,0.1,10,,a
Misc : WG1126396,ICAL14750
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 15 08:58:39 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox80614N\V05180614N02.d•

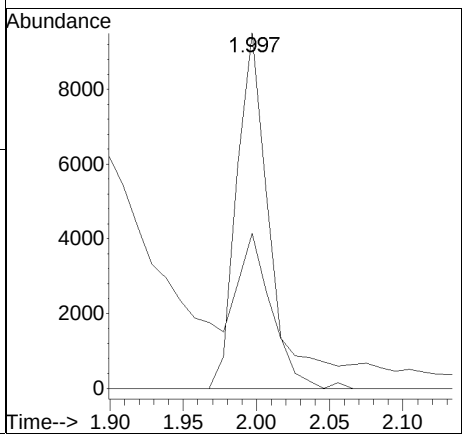


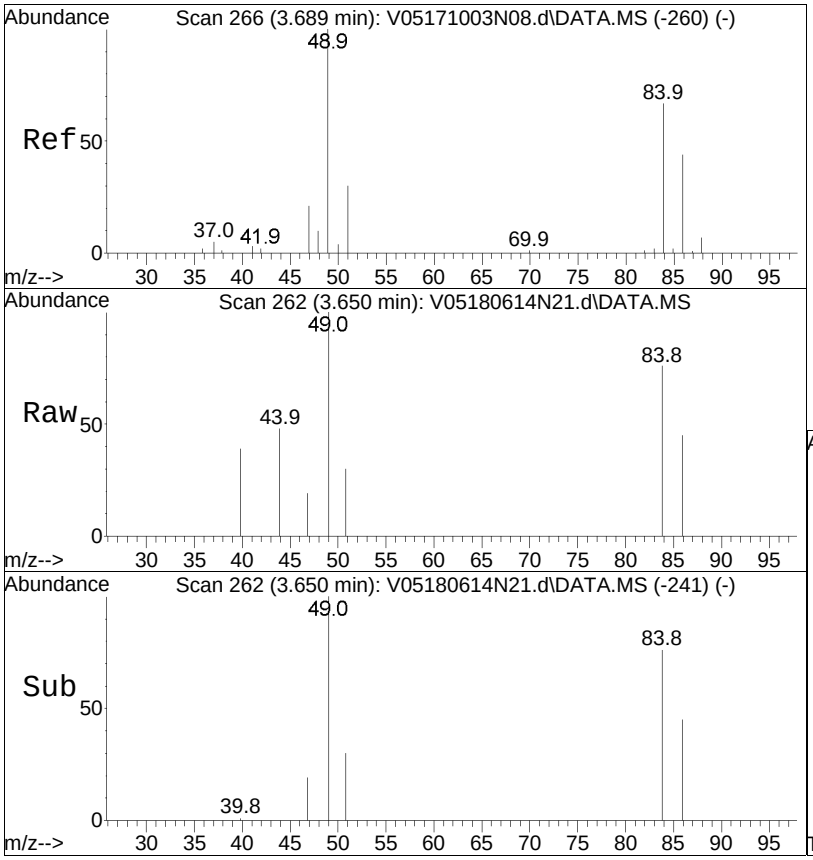


#4
Vinyl chloride
Concen: 1.50 ug/L
RT: 1.997 min Scan# 93
Delta R.T. 0.000 min
Lab File: V05180614N21.d
Acq: 15 Jun 2018 3:03 am

Tgt Ion: 62 Resp: 13879

Ion	Ratio	Lower	Upper
62	100		
64	60.7	13.8	53.8#

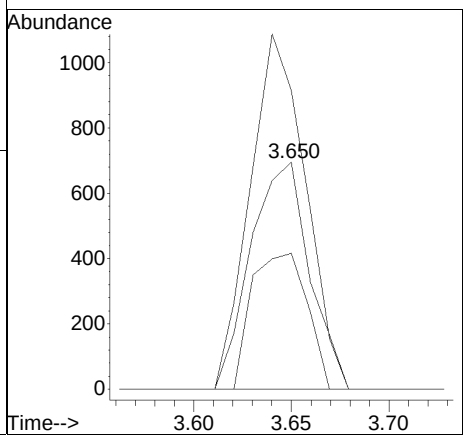


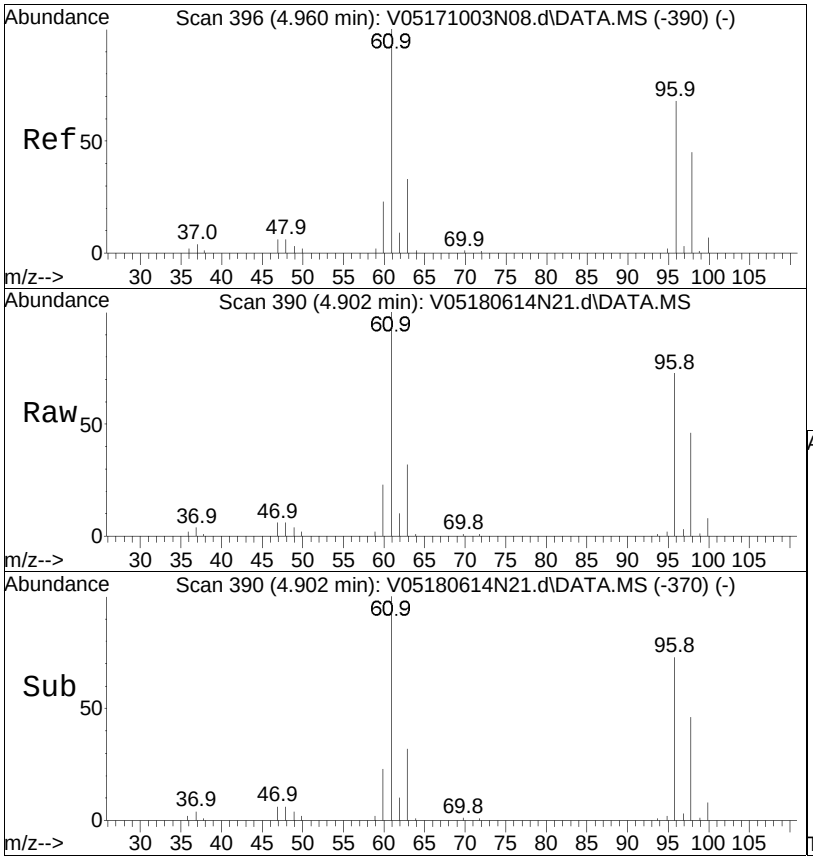


#15
Methylene chloride
Concen: 0.14 ug/L
RT: 3.650 min Scan# 262
Delta R.T. 0.010 min
Lab File: V05180614N21.d
Acq: 15 Jun 2018 3:03 am

Tgt Ion: 84 Resp: 1455

Ion	Ratio	Lower	Upper
84	100		
86	56.6	41.9	86.9
49	147.3	95.1	197.5

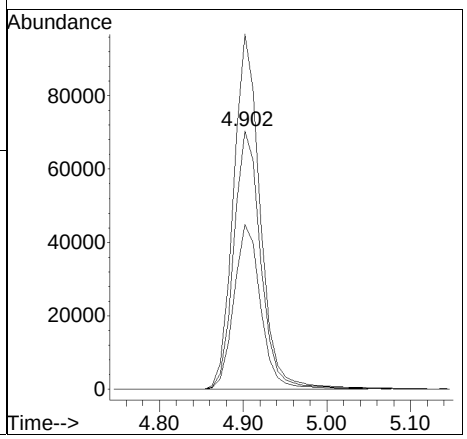


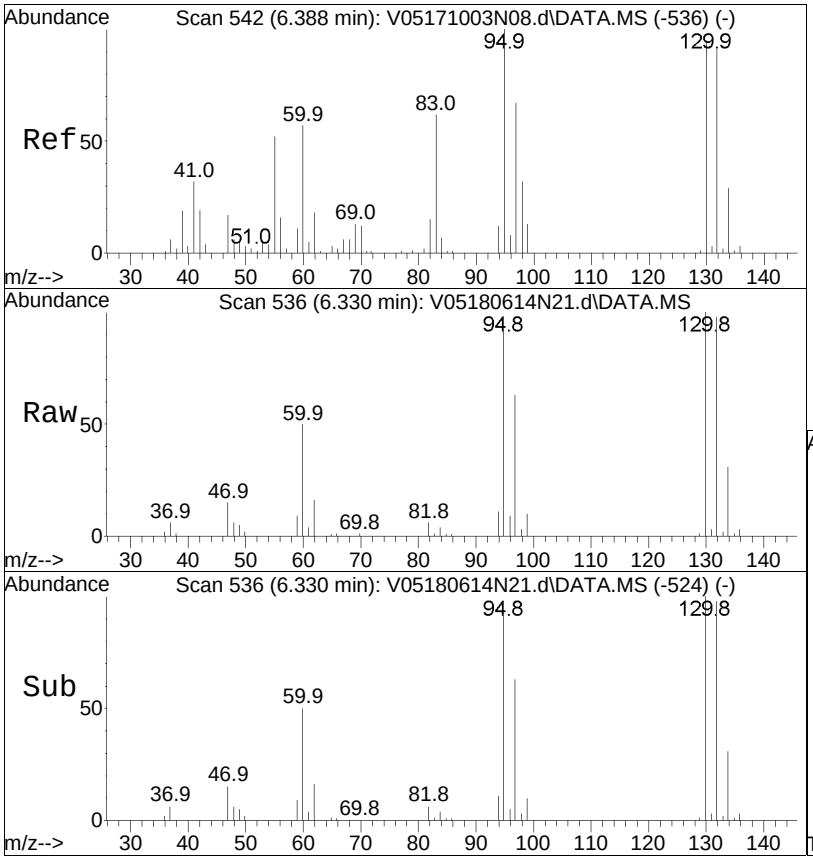


#28
cis-1,2-Dichloroethene
Concen: 13.68 ug/L
RT: 4.902 min Scan# 390
Delta R.T. 0.000 min
Lab File: V05180614N21.d
Acq: 15 Jun 2018 3:03 am

Tgt Ion: 96 Resp: 158558

Ion	Ratio	Lower	Upper
96	100		
61	136.0	113.7	170.5
98	63.5	51.2	76.8

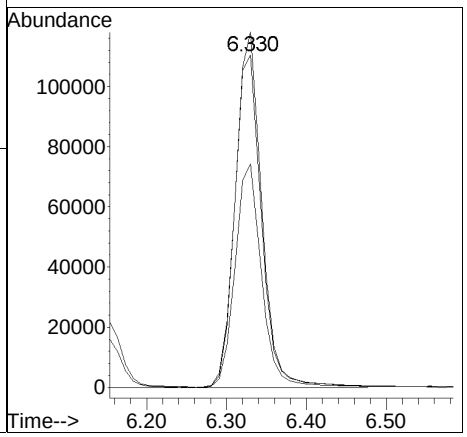


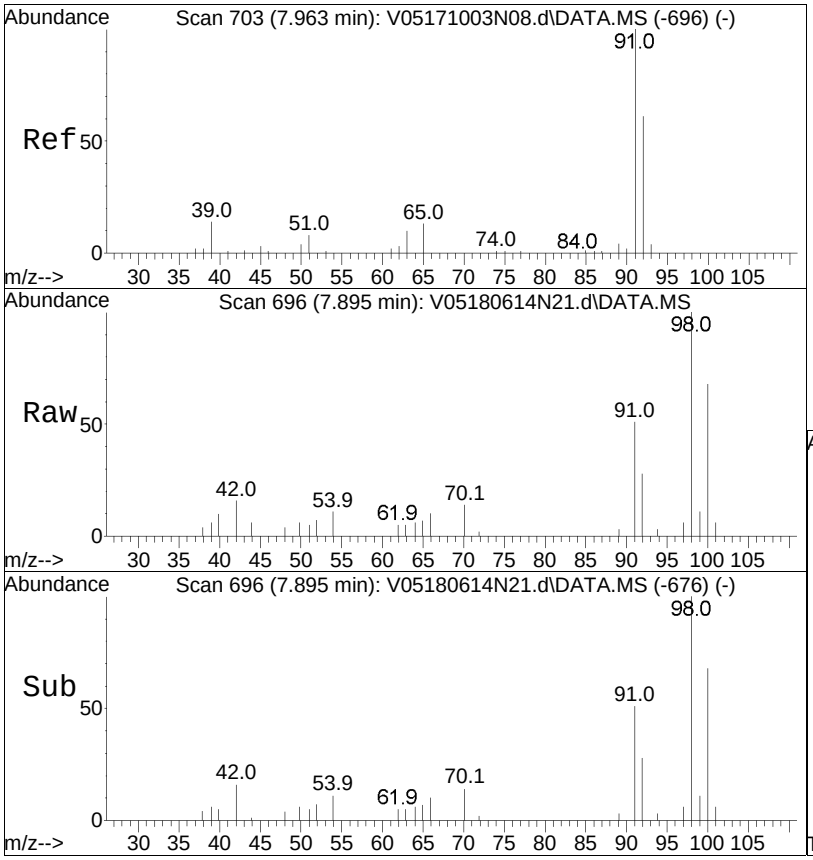


#48
Trichloroethene
Concen: 21.73 ug/L
RT: 6.330 min Scan# 536
Delta R.T. 0.000 min
Lab File: V05180614N21.d
Acq: 15 Jun 2018 3:03 am

Tgt Ion: 95 Resp: 260229

Ion	Ratio	Lower	Upper
95	100		
97	66.3	53.5	80.3
130	104.4	75.9	113.9

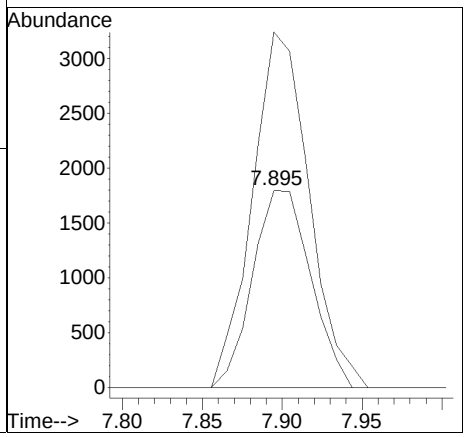


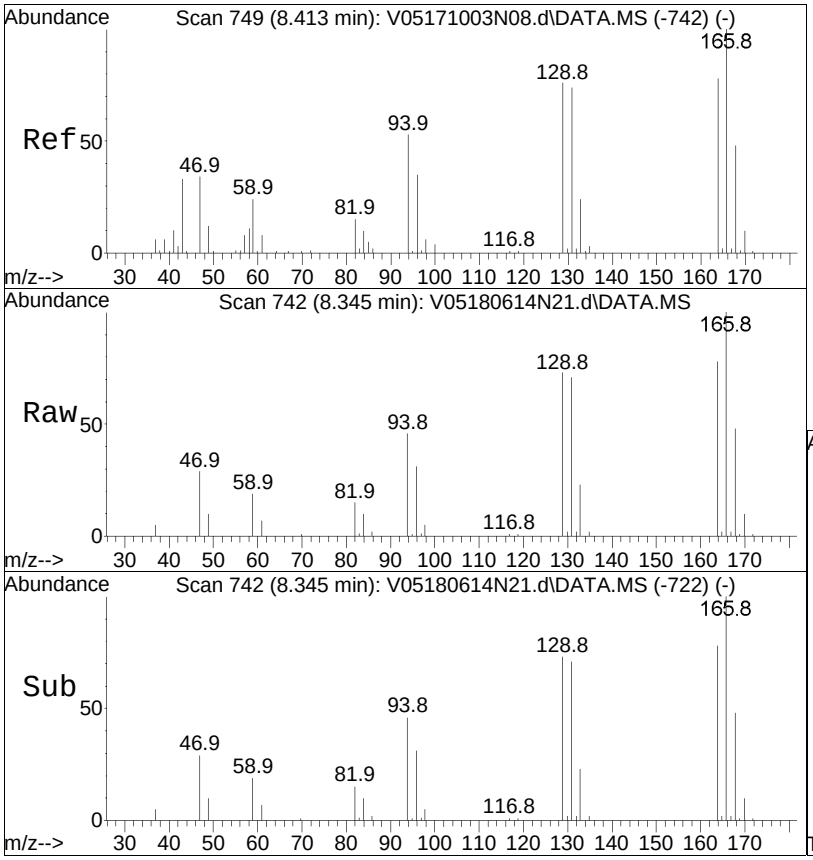


#61
Toluene
Concen: 0.16 ug/L
RT: 7.895 min Scan# 696
Delta R.T. 0.000 min
Lab File: V05180614N21.d
Acq: 15 Jun 2018 3:03 am

Tgt Ion: 92 Resp: 4534

Ion	Ratio	Lower	Upper
92	100		
91	176.4	133.0	199.4

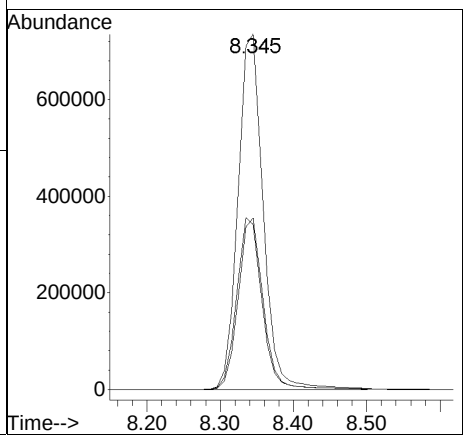




#63
Tetrachloroethene
Concen: 146.65 ug/L
RT: 8.345 min Scan# 742
Delta R.T. 0.000 min
Lab File: V05180614N21.d
Acq: 15 Jun 2018 3:03 am

Tgt Ion:166 Resp: 1759616

Ion	Ratio	Lower	Upper
166	100		
168	47.8	27.2	67.2
94	48.6	35.8	75.8



Manual Integration Report

Data Path	: I:\VOLATILES\VOA105\2018\1	QMethod	: V105_180530N_8260.m
Data File	: V05180614N21.d	Operator	: VOA105:NLK
Date Inj'd	: 6/15/2018 3:03 am	Instrument	: VOA 105
Sample	: l1821938-04D,31,0.1,10,,a	Quant Date	: 6/15/2018 8:13 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N22.d
Acq On : 15 Jun 2018 3:28 am
Operator : VOA105:NLK
Sample : l1821938-02D,31,0.02,10,,a
Misc : WG1126396,ICAL14750
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 15 08:59:19 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.154	96	573286	10.000	ug/L	0.00
Standard Area 1 = 682856			Recovery =	83.95%		
59) Chlorobenzene-d5	9.686	117	440066	10.000	ug/L	0.00
Standard Area 1 = 526943			Recovery =	83.51%		
79) 1,4-Dichlorobenzene-d4	12.360	152	211769	10.000	ug/L	0.00
Standard Area 1 = 267847			Recovery =	79.06%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.342	113	152625	9.913	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.13%		
43) 1,2-Dichloroethane-d4	5.880	65	183551	10.049	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.49%		
60) Toluene-d8	7.836	98	559508	9.788	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.88%		
83) 4-Bromofluorobenzene	11.165	95	203144	10.132	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.32%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.889	50	401	N.D.		
4) Vinyl chloride	1.997	62	45171	4.942	ug/L	86
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D. d		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	3.073	96	406	N.D.		
11) Carbon disulfide	0.000		0	N.D. d		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.640	84	1300	0.126	ug/L	94
17) Acetone	3.699	43	837	Below Cal #		52
18) trans-1,2-Dichloroethene	3.796	96	790	0.076	ug/L	86
19) Methyl acetate	3.816	43	89	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.902	96	140790	12.283	ug/L	97
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N22.d
Acq On : 15 Jun 2018 3:28 am
Operator : VOA105:NLK
Sample : l1821938-02D,31,0.02,10,,a
Misc : WG1126396,ICAL14750
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 15 08:59:19 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	0.000		0	N.D.	d	
41)	Benzene	0.000		0	N.D.		
44)	1,2-Dichloroethane	5.938	62	437	N.D.		
47)	Methyl cyclohexane	6.320	83	423	N.D.		
48)	Trichloroethene	6.330	95	44416	3.749	ug/L	95
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
57)	1,4-Dioxane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	7.904	92	4198	0.152	ug/L	94
62)	4-Methyl-2-pentanone	0.000		0	N.D.	d	
63)	Tetrachloroethene	8.345	166	1364339	115.787	ug/L	94
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	8.491	83	129	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	0.000		0	N.D.		
73)	Chlorobenzene	9.706	112	213	N.D.		
74)	Ethylbenzene	9.745	91	116	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	0.000		0	N.D.		
101)	1,4-Dichlorobenzene	0.000		0	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

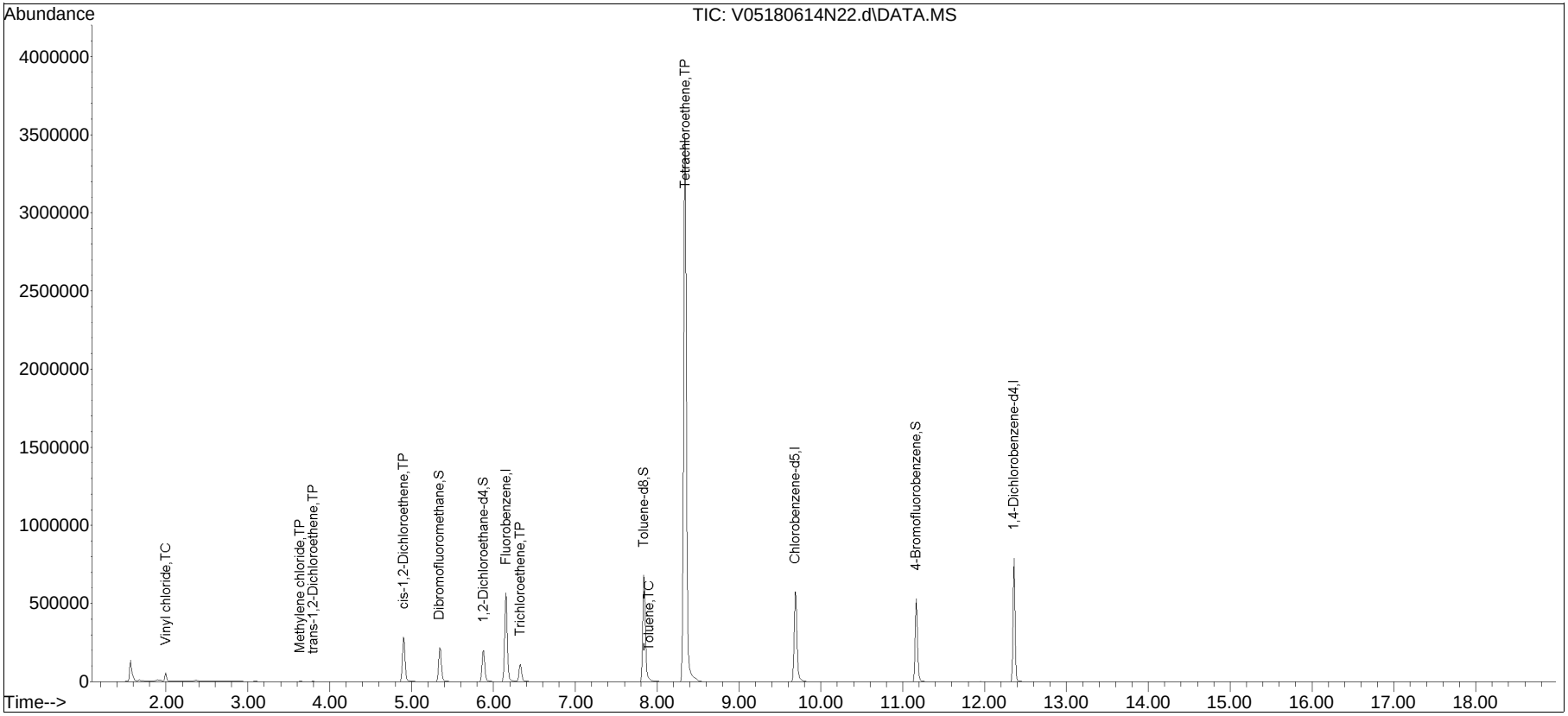
(#) = qualifier out of range (m) = manual integration (+) = signals summed

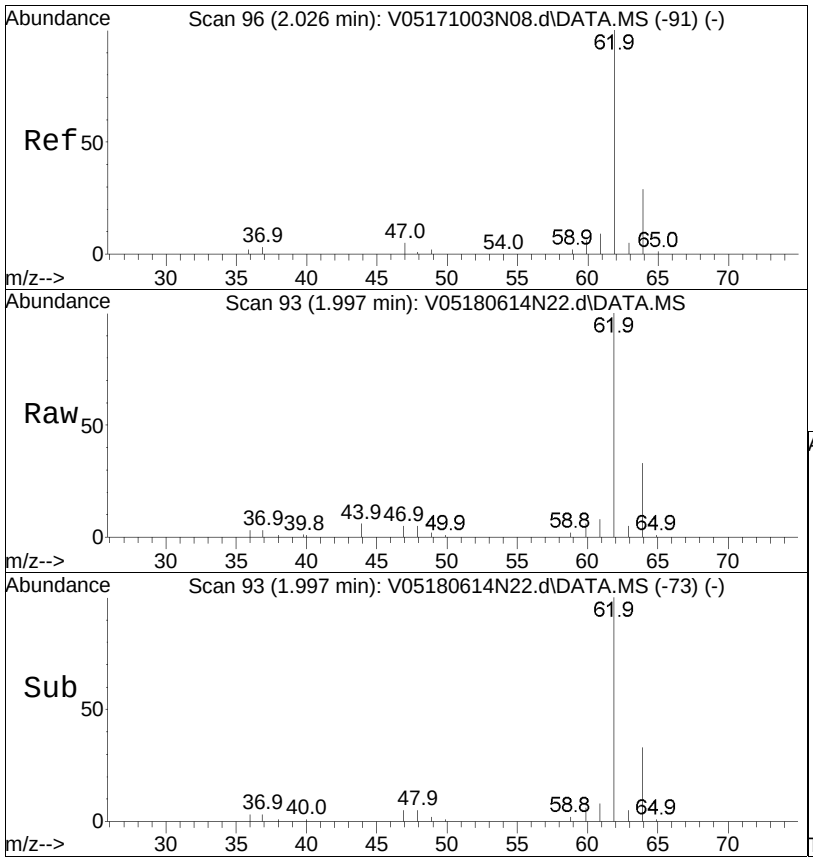
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N22.d
Acq On : 15 Jun 2018 3:28 am
Operator : VOA105:NLK
Sample : l1821938-02D,31,0.02,10,,a
Misc : WG1126396,ICAL14750
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 15 08:59:19 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox80614N\V05180614N02.d•

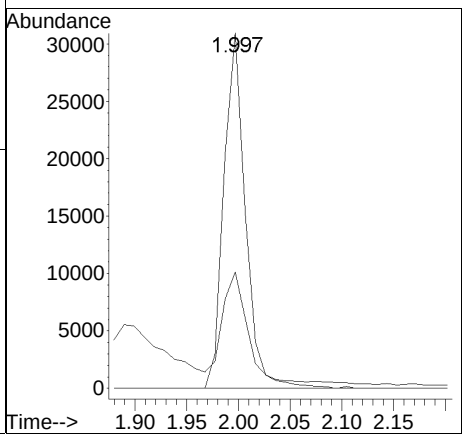


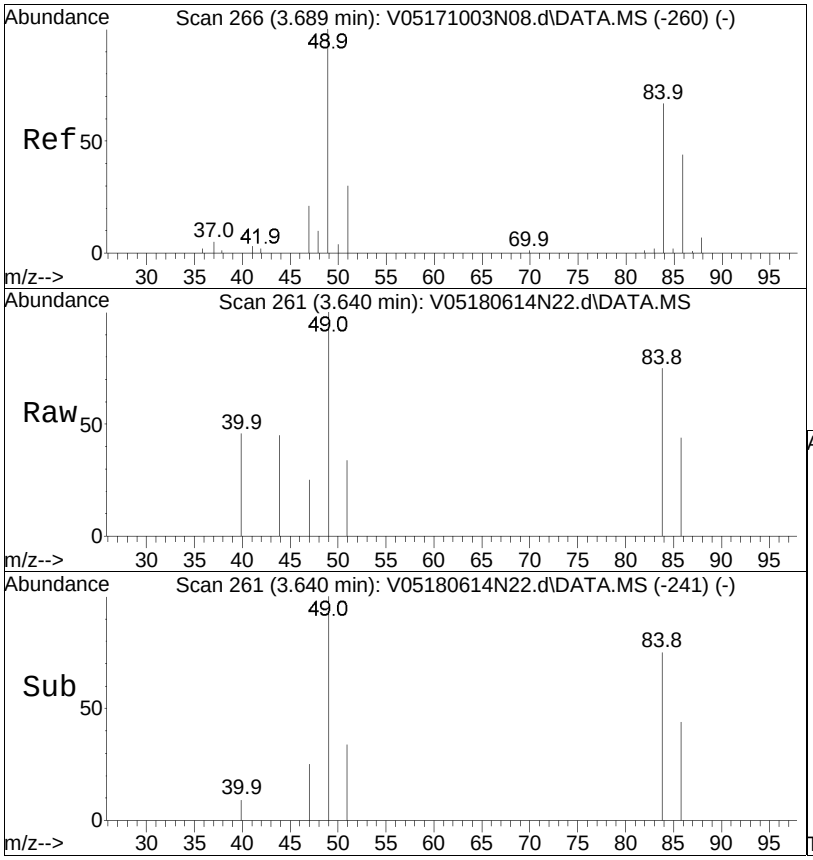


#4
Vinyl chloride
Concen: 4.94 ug/L
RT: 1.997 min Scan# 93
Delta R.T. -0.000 min
Lab File: V05180614N22.d
Acq: 15 Jun 2018 3:28 am

Tgt Ion: 62 Resp: 45171

Ion	Ratio	Lower	Upper
62	100		
64	42.0	13.8	53.8

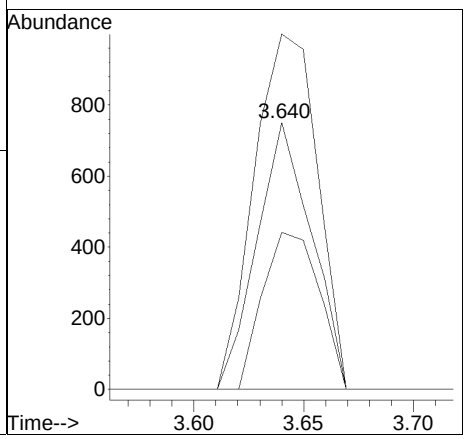


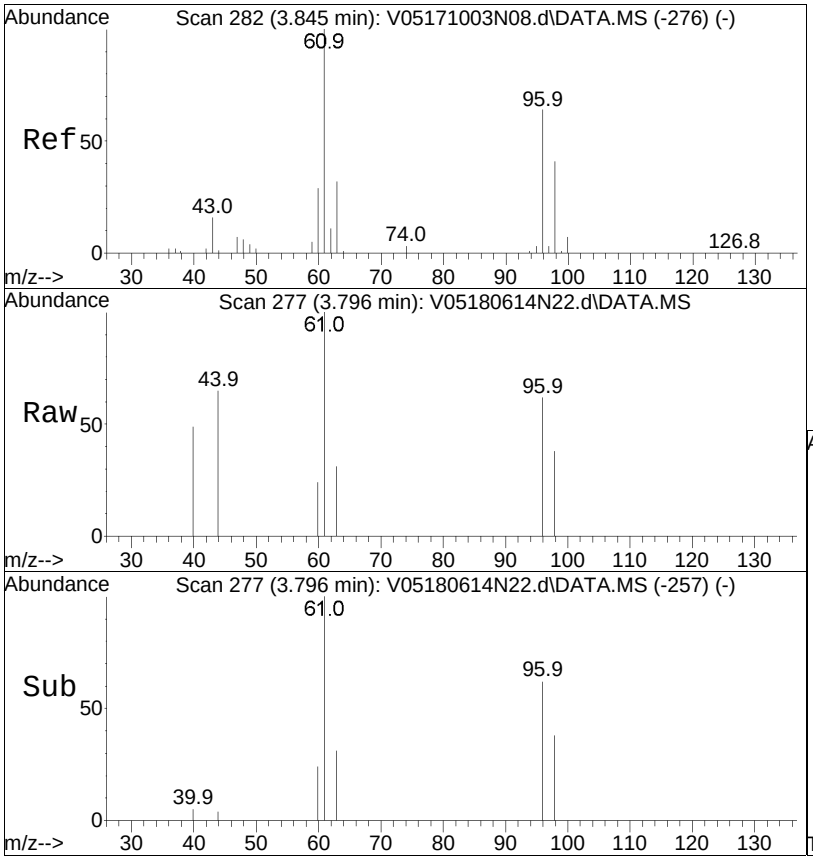


#15
Methylene chloride
Concen: 0.13 ug/L
RT: 3.640 min Scan# 261
Delta R.T. -0.000 min
Lab File: V05180614N22.d
Acq: 15 Jun 2018 3:28 am

Tgt Ion: 84 Resp: 1300

Ion	Ratio	Lower	Upper
84	100		
86	61.0	41.9	86.9
49	154.3	95.1	197.5

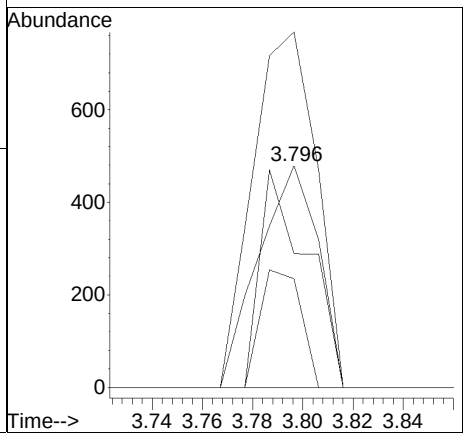


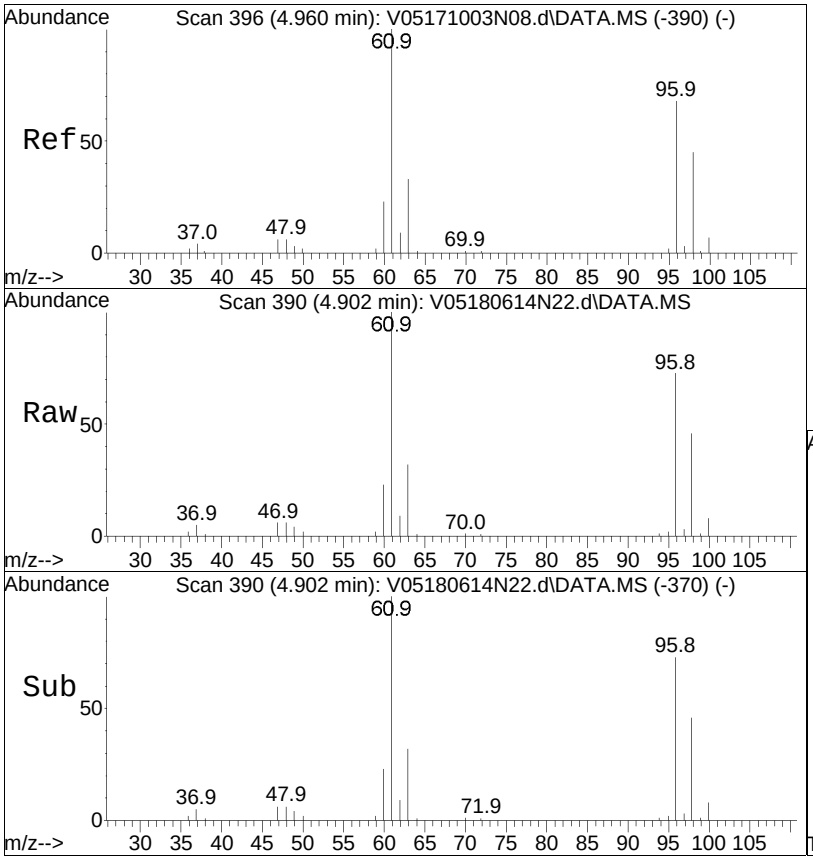


#18
trans-1,2-Dichloroethene
Concen: 0.08 ug/L
RT: 3.796 min Scan# 277
Delta R.T. -0.000 min
Lab File: V05180614N22.d
Acq: 15 Jun 2018 3:28 am

Tgt Ion: 96 Resp: 790

Ion	Ratio	Lower	Upper
96	100		
61	170.9	102.0	211.8
98	77.7	41.9	87.1
63	36.3	32.6	67.8

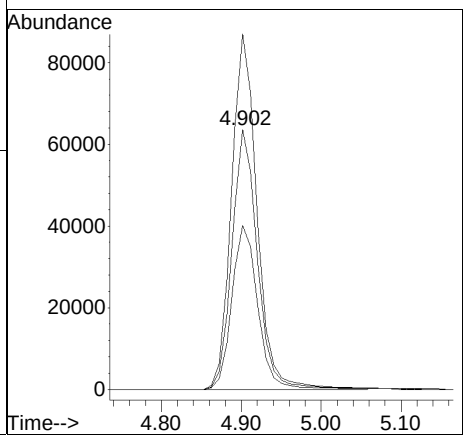


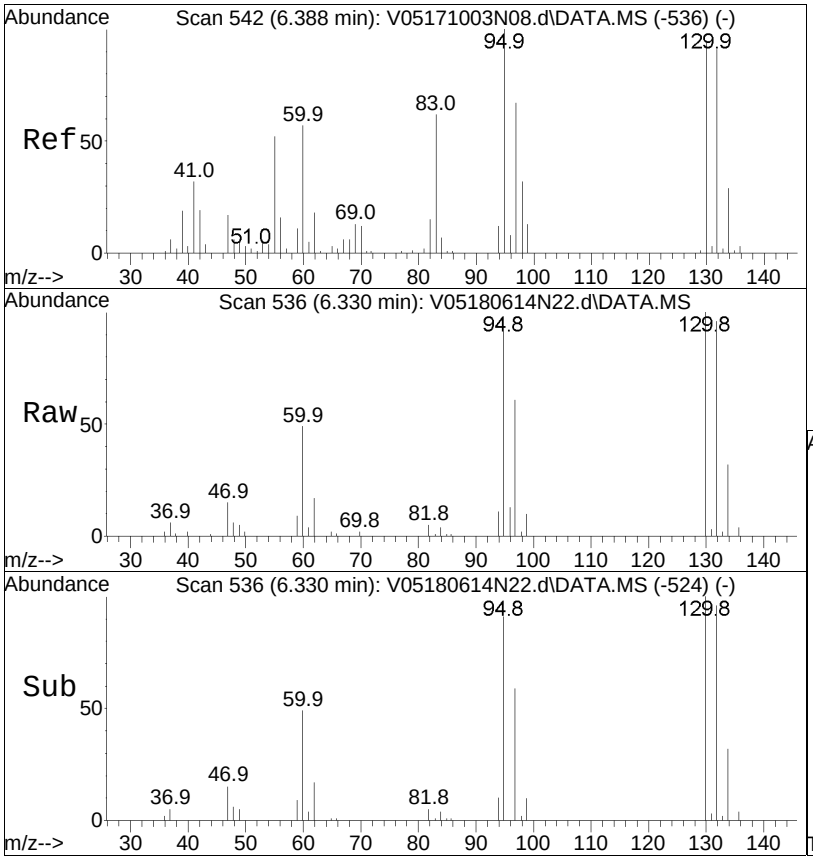


#28
cis-1,2-Dichloroethene
Concen: 12.28 ug/L
RT: 4.902 min Scan# 390
Delta R.T. -0.000 min
Lab File: V05180614N22.d
Acq: 15 Jun 2018 3:28 am

Tgt Ion: 96 Resp: 140790

Ion	Ratio	Lower	Upper
96	100		
61	137.2	113.7	170.5
98	64.5	51.2	76.8

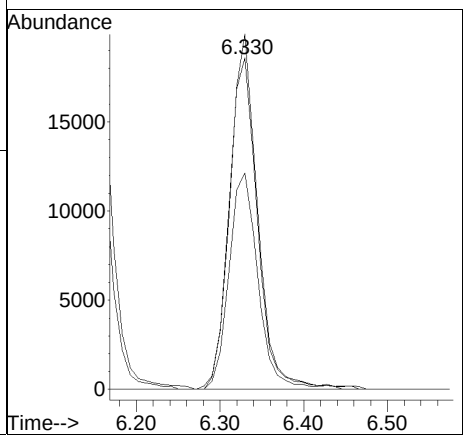


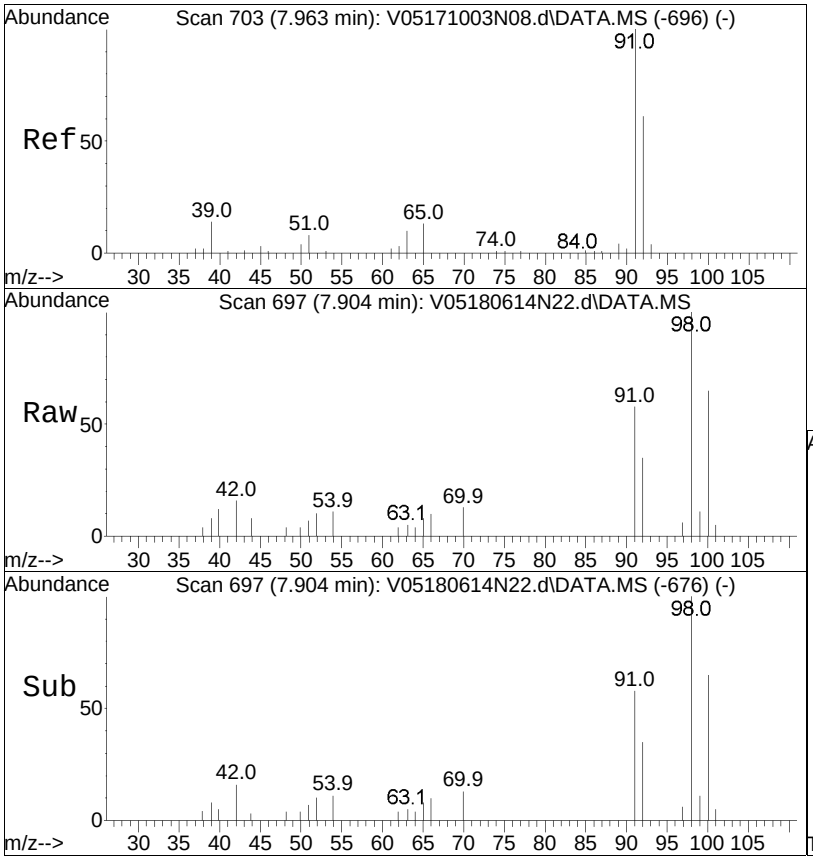


#48
Trichloroethene
Concen: 3.75 ug/L
RT: 6.330 min Scan# 536
Delta R.T. -0.000 min
Lab File: V05180614N22.d
Acq: 15 Jun 2018 3:28 am

Tgt Ion: 95 Resp: 44416

Ion	Ratio	Lower	Upper
95	100		
97	66.0	53.5	80.3
130	103.2	75.9	113.9

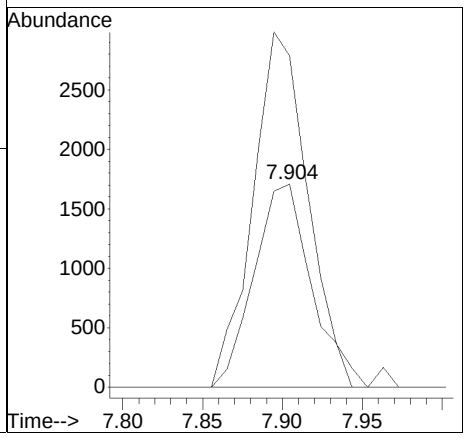


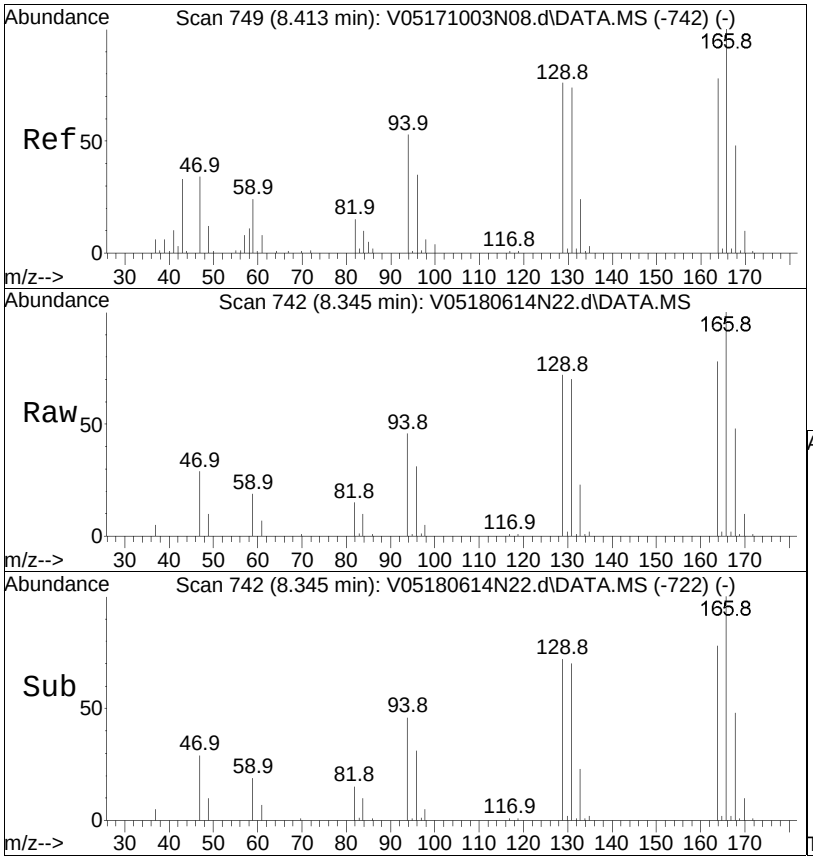


#61
Toluene
Concen: 0.15 ug/L
RT: 7.904 min Scan# 697
Delta R.T. 0.010 min
Lab File: V05180614N22.d
Acq: 15 Jun 2018 3:28 am

Tgt Ion: 92 Resp: 4198

Ion	Ratio	Lower	Upper
92	100		
91	174.1	133.0	199.4

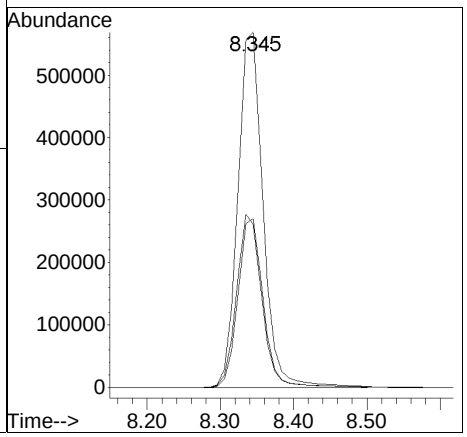




#63
Tetrachloroethene
Concen: 115.79 ug/L
RT: 8.345 min Scan# 742
Delta R.T. -0.000 min
Lab File: V05180614N22.d
Acq: 15 Jun 2018 3:28 am

Tgt Ion:166 Resp: 1364339

Ion	Ratio	Lower	Upper
166	100		
168	47.6	27.2	67.2
94	48.7	35.8	75.8



Manual Integration Report

Data Path	: I:\VOLATILES\VOA105\2018\1	QMethod	: V105_180530N_8260.m
Data File	: V05180614N22.d	Operator	: VOA105:NLK
Date Inj'd	: 6/15/2018 3:28 am	Instrument	: VOA 105
Sample	: l1821938-02D,31,0.02,10,,a	Quant Date	: 6/15/2018 8:14 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6

Client	**: C.T. Male Associates**	**Lab Number**	**: L1821938**
Project Name	**: MASTER CLEANERS**	**Project Number**	**: 16.6345**
Instrument ID	**: VOA105**	**Ical Ref**	**: ICAL14750**
Calibration dates	**: 05/30/18 22:10 05/31/18 01:56**		

Calibration Files
L11 =V05180530N03.d L1 =V05180530N04.d L2 =V05180530N06.d L3 =V05180530N08.d L4 =V05180530N09.d
L6 =V05180530N10.d L8 =V05180530N11.d L10 =V05180530N12.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------									
2)	TP	Dichlorodifluo		0.128	0.155	0.162	0.160	0.146	0.131	0.134	0.145	9.92
3)	TP	Chloromethane		0.147	0.176	0.159	0.153	0.143	0.141	0.145	0.152	8.02
4)	TC	Vinyl chloride	0.144	0.147	0.176	0.173	0.172	0.162	0.151	0.152	0.159	7.89
5)	TP	Bromomethane		0.059	0.070	0.068	0.062	0.073	0.073	0.077	0.069#	9.26
6)	TP	Chloroethane		0.085	0.091	0.085	0.083	0.078	0.073	0.071	0.081#	8.87
7)	TP	Trichlorofluor		0.225	0.273	0.270	0.272	0.249	0.224	0.225	0.248	9.44
8)	TP	Ethyl ether		0.062	0.060	0.060	0.060	0.059	0.057	0.056	0.059	3.40
10)	TC	1,1-Dichloroet		0.144	0.164	0.160	0.163	0.155	0.146	0.149	0.155	5.37
11)	TP	Carbon disulfide		0.307	0.331	0.364	0.387	0.381	0.374	0.385	0.361	8.47
12)	TP	Freon-113		0.152	0.182	0.189	0.188	0.173	0.156	0.159	0.171	9.15
13)	TP	Iodomethane		0.038	0.040	0.090	0.147	0.177	0.168	0.172	*L	0.9935
14)	TP	Acrolein			0.016	0.018	0.020	0.020	0.020	0.020	0.019#	8.05
15)	TP	Methylene chlo		0.193	0.194	0.184	0.180	0.173	0.166	0.165	0.180	6.56
17)	TP	Acetone		0.100	0.048	0.032	0.032	0.030	0.030	0.030	*L	0.9999
18)	TP	trans-1,2-Dich		0.169	0.186	0.187	0.187	0.182	0.175	0.176	0.180	3.79
19)	TP	Methyl acetate		0.092	0.084	0.078	0.082	0.082	0.081	0.079	0.083#	5.86
20)	TP	Methyl tert butyl ether		0.300	0.317	0.348	0.377	0.380	0.379	0.379	0.354	9.47
21)	TP	tert-Butyl alc		0.004	0.005	0.006	0.006	0.007	0.007	0.007	0.006#	19.71
22)	TP	Diisopropyl ether		0.484	0.571	0.612	0.632	0.630	0.614	0.606	0.593	8.79
23)	TP	1,1-Dichloroet		0.332	0.377	0.362	0.360	0.349	0.335	0.333	0.350	5.04
24)	TP	Halothane		0.122	0.144	0.148	0.150	0.147	0.141	0.145	0.142	6.71
25)	TP	Acrylonitrile		0.037	0.032	0.036	0.037	0.037	0.037	0.037	0.036#	5.06
26)	TP	Ethyl tert-but		0.352	0.402	0.456	0.490	0.497	0.488	0.484	0.453	12.17
27)	TP	Vinyl acetate		0.267	0.311	0.360	0.389	0.391	0.389	0.383	0.355	13.65
28)	TP	cis-1,2-Dichlo		0.182	0.207	0.203	0.208	0.204	0.197	0.198	0.200	4.48
29)	TP	2,2-Dichloropr		0.194	0.248	0.264	0.276	0.281	0.266	0.273	0.257	11.62
30)	TP	Bromochloromet		0.080	0.096	0.097	0.096	0.095	0.093	0.090	0.092	6.65
31)	TP	Cyclohexane		0.202	0.261	0.297	0.306	0.286	0.260	0.265	0.268	12.87
32)	TC	Chloroform		0.330	0.375	0.367	0.363	0.352	0.333	0.335	0.351	5.17
33)	TP	Ethyl acetate		0.102	0.106	0.108	0.117	0.117	0.118	0.117	0.112	5.93
34)	TP	Carbon tetrachloride	0.195	0.218	0.263	0.289	0.306	0.300	0.284	0.290	0.268	15.04
35)	TP	Tetrahydrofuran		0.039	0.034	0.031	0.033	0.032	0.031	0.031	0.033#	8.35
36)	S	Dibromofluoromethane	0.268	0.267	0.273	0.270	0.272	0.271	0.265	0.262	0.269	1.41
37)	TP	1,1,1-Trichlor		0.273	0.335	0.337	0.344	0.332	0.315	0.317	0.322	7.51
39)	TP	2-Butanone		0.044	0.049	0.045	0.047	0.047	0.047	0.046	0.046#	3.15
40)	TP	1,1-Dichloropr		0.212	0.262	0.280	0.282	0.270	0.256	0.257	0.260	9.06
41)	TP	Benzene	0.672	0.673	0.789	0.779	0.774	0.756	0.726	0.728	0.737	6.23

Initial Calibration Summary
Form 6

Client	**: C.T. Male Associates**	**Lab Number**	**: L1821938**
Project Name	**: MASTER CLEANERS**	**Project Number**	**: 16.6345**
Instrument ID	**: VOA105**	**Ical Ref**	**: ICAL14750**
Calibration dates	**: 05/30/18 22:10 05/31/18 01:56**		

Calibration Files
L11 =V05180530N03.d L1 =V05180530N04.d L2 =V05180530N06.d L3 =V05180530N08.d L4 =V05180530N09.d
L6 =V05180530N10.d L8 =V05180530N11.d L10 =V05180530N12.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
42)	TP	Tertiary-Amyl Methyl Ether		0.270	0.307	0.354	0.393	0.408	0.408	0.413	0.365	15.57
43)	S	1,2-Dichloroethane-d4	0.324	0.321	0.325	0.327	0.313	0.314	0.316	0.309	0.319	2.02
44)	TP	1,2-Dichloroet		0.290	0.281	0.274	0.273	0.260	0.251	0.245	0.268	6.10
47)	TP	Methyl cyclohe		0.172	0.215	0.239	0.246	0.234	0.216	0.222	0.221	11.09
48)	TP	Trichloroethene	0.218	0.207	0.221	0.210	0.209	0.202	0.193	0.192	0.207	5.05
50)	TP	Dibromomethane		0.090	0.104	0.101	0.106	0.104	0.102	0.102	0.101	5.12
51)	TC	1,2-Dichloropr		0.165	0.188	0.189	0.194	0.192	0.184	0.184	0.185	5.23
53)	TP	2-Chloroethyl			0.057	0.072	0.082	0.081	0.081	0.081	0.076	12.88
54)	TP	Bromodichlorom		0.196	0.230	0.251	0.267	0.268	0.262	0.262	0.248	10.63
57)	TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	16.77
58)	TP	cis-1,3-Dichlo		0.173	0.228	0.280	0.306	0.311	0.305	0.305	0.273	19.29
59)	I	Chlorobenzene-d5	----------ISTD----------									
60)	S	Toluene-d8	1.289	1.289	1.317	1.310	1.303	1.294	1.293	1.298	1.299	0.78
61)	TC	Toluene		0.573	0.658	0.656	0.648	0.629	0.612	0.616	0.627	4.84
62)	TP	4-Methyl-2-pen			0.029	0.039	0.045	0.047	0.048	0.049	0.043#	17.82
63)	TP	Tetrachloroethene		0.232	0.277	0.282	0.282	0.271	0.263	0.267	0.268	6.39
65)	TP	trans-1,3-Dich		0.199	0.246	0.306	0.345	0.352	0.353	0.355	*L	0.9996
67)	TP	Ethyl methacry			0.159	0.208	0.241	0.245	0.247	0.245	0.224	15.63
68)	TP	1,1,2-Trichlor		0.133	0.151	0.173	0.172	0.165	0.163	0.161	0.160	8.81
69)	TP	Chlorodibromom		0.138	0.173	0.207	0.232	0.240	0.241	0.265	*L	0.9969
70)	TP	1,3-Dichloropr		0.274	0.308	0.327	0.331	0.319	0.317	0.314	0.313	5.94
71)	TP	1,2-Dibromoethane		0.133	0.164	0.177	0.184	0.182	0.182	0.183	0.172	10.91
72)	TP	2-Hexanone			0.054	0.075	0.088	0.093	0.095	0.097	0.083#	19.75
73)	TP	Chlorobenzene		0.688	0.737	0.729	0.717	0.703	0.683	0.676	0.705	3.35
74)	TC	Ethylbenzene		1.060	1.219	1.258	1.251	1.220	1.181	1.171	1.194	5.66
75)	TP	1,1,1,2-Tetrac		0.187	0.231	0.255	0.266	0.267	0.264	0.267	0.248	11.93
76)	TP	p/m Xylene		0.352	0.463	0.490	0.490	0.477	0.455	0.436	0.452	10.64
77)	TP	o Xylene		0.324	0.421	0.458	0.464	0.447	0.427	0.410	0.422	11.22
78)	TP	Styrene		0.473	0.674	0.749	0.754	0.734	0.701	0.668	0.679	14.33
79)	I	1,4-Dichlorobenzene-d4	----------ISTD----------									
80)	TP	Bromoform		0.130	0.159	0.196	0.231	0.252	0.257	0.268	*L	0.9975
82)	TP	Isopropylbenzene		1.575	2.047	2.257	2.234	2.197	2.157	2.187	2.093	11.38
83)	S	4-Bromofluorobenzene	0.949	0.941	0.944	0.938	0.931	0.946	0.953	0.972	0.947	1.32
84)	TP	Bromobenzene		0.557	0.595	0.595	0.590	0.586	0.579	0.584	0.584	2.24
85)	TP	n-Propylbenzene		1.987	2.407	2.553	2.493	2.430	2.376	2.379	2.375	7.70
86)	TP	1,4-Dichlorobu		0.499	0.544	0.574	0.576	0.562	0.557	0.559	0.553	4.72
87)	TP	1,1,2,2-Tetrac		0.317	0.342	0.351	0.355	0.348	0.349	0.350	0.345	3.71
88)	TP	4-Ethyltoluene		1.493	1.956	2.109	2.094	2.083	2.043	2.056	1.976	11.07

Initial Calibration Summary
Form 6

Client	**: C.T. Male Associates**	**Lab Number**	**: L1821938**
Project Name	**: MASTER CLEANERS**	**Project Number**	**: 16.6345**
Instrument ID	**: VOA105**	**Ical Ref**	**: ICAL14750**
Calibration dates	**: 05/30/18 22:10 05/31/18 01:56**		

Calibration Files
L11 =V05180530N03.d L1 =V05180530N04.d L2 =V05180530N06.d L3 =V05180530N08.d L4 =V05180530N09.d
L6 =V05180530N10.d L8 =V05180530N11.d L10 =V05180530N12.d

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
89) TP	2-Chlorotoluene		1.436	1.652	1.670	1.620	1.605	1.558	1.557	1.586	4.96
90) TP	1,3,5-Trimethy		1.309	1.767	1.872	1.823	1.808	1.774	1.774	1.733	10.99
91) TP	1,2,3-Trichlor		0.326	0.310	0.313	0.309	0.298	0.299	0.300	0.308	3.29
92) TP	trans-1,4-Dich			0.071	0.085	0.097	0.102	0.105	0.108	0.095	14.75
93) TP	4-Chlorotoluene		1.396	1.631	1.734	1.688	1.671	1.631	1.648	1.628	6.68
94) TP	tert-Butylbenzene		0.985	1.246	1.409	1.401	1.382	1.353	1.382	1.308	11.66
97) TP	1,2,4-Trimethy		1.253	1.692	1.886	1.871	1.869	1.818	1.824	1.745	12.97
98) TP	sec-Butylbenzene		1.240	1.685	1.833	1.820	1.779	1.749	1.805	1.702	12.31
99) TP	p-Isopropyltol		1.018	1.437	1.649	1.670	1.643	1.615	1.645	1.525	15.56
100) TP	1,3-Dichlorobe		0.917	1.045	1.074	1.061	1.043	1.026	1.039	1.029	5.03
101) TP	1,4-Dichlorobe		1.054	1.098	1.097	1.086	1.071	1.053	1.053	1.073	1.92
102) TP	p-Diethylbenzene		0.579	0.804	0.922	0.928	0.932	0.922	0.941	0.861	15.44
103) TP	n-Butylbenzene		0.962	1.282	1.388	1.351	1.330	1.307	1.350	1.281	11.32
104) TP	1,2-Dichlorobe		0.802	0.913	0.927	0.943	0.925	0.915	0.921	0.906	5.19
105) TP	1,2,4,5-Tetram			1.025	1.384	1.468	1.485	1.465	1.487	1.385	13.05
106) TP	1,2-Dibromo-3-		0.020	0.030	0.034	0.041	0.045	0.048	0.050	*L	0.9955
107) TP	1,3,5-Trichlor		0.472	0.545	0.567	0.562	0.562	0.558	0.567	0.548	6.23
108) TP	Hexachlorobuta		0.181	0.188	0.189	0.187	0.184	0.190	0.202	0.189	3.47
109) TP	1,2,4-Trichlor		0.348	0.388	0.424	0.445	0.448	0.458	0.468	0.426	10.13
110) TP	Naphthalene		0.405	0.485	0.663	0.762	0.773	0.812	0.833	*L	0.9983
111) TP	1,2,3-Trichlor		0.233	0.262	0.285	0.297	0.292	0.309	0.311	0.284	9.86

Response Factor Report VOA 105

Method Path : I:\VOLATILES\VOA105\2018\180530N\
Method File : V105_180530N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu May 31 11:54:28 2018
Response Via : Initial Calibration

Calibration Files
L11 =V05180530N03.d L1 =V05180530N04.d L2 =V05180530N06.d L3 =V05180530N08.d L4 =V05180530N09.d
L6 =V05180530N10.d L8 =V05180530N11.d L10 =V05180530N12.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1)	I	Fluorobenzene	----------	----------	ISTD	----------	----------	----------	----------	----------		
2)	TP	Dichlorodifluo...		0.128	0.155	0.162	0.160	0.146	0.131	0.134	0.145	9.92
3)	TP	Chloromethane		0.147	0.176	0.159	0.153	0.143	0.141	0.145	0.152	8.02
4)	TC	Vinyl chloride	0.144	0.147	0.176	0.173	0.172	0.162	0.151	0.152	0.159	7.89
5)	TP	Bromomethane		0.059	0.070	0.068	0.062	0.073	0.073	0.077	0.069#	9.26
6)	TP	Chloroethane		0.085	0.091	0.085	0.083	0.078	0.073	0.071	0.081#	8.87
7)	TP	Trichlorofluor...		0.225	0.273	0.270	0.272	0.249	0.224	0.225	0.248	9.44
8)	TP	Ethyl ether		0.062	0.060	0.060	0.060	0.059	0.057	0.056	0.059	3.40
10)	TC	1,1-Dichloroet...		0.144	0.164	0.160	0.163	0.155	0.146	0.149	0.155	5.37
11)	TP	Carbon disulfide		0.307	0.331	0.364	0.387	0.381	0.374	0.385	0.361	8.47
12)	TP	Freon-113		0.152	0.182	0.189	0.188	0.173	0.156	0.159	0.171	9.15
13)	TP	Iodomethane		0.038	0.040	0.090	0.147	0.177	0.168	0.172	*L	0.9935
14)	TP	Acrolein			0.016	0.018	0.020	0.020	0.020	0.020	0.019#	8.05
15)	TP	Methylene chlo...		0.193	0.194	0.184	0.180	0.173	0.166	0.165	0.180	6.56
17)	TP	Acetone		0.100	0.048	0.032	0.032	0.030	0.030	0.030	*L	0.9999
18)	TP	trans-1,2-Dich...		0.169	0.186	0.187	0.187	0.182	0.175	0.176	0.180	3.79
19)	TP	Methyl acetate		0.092	0.084	0.078	0.082	0.082	0.081	0.079	0.083#	5.86
20)	TP	Methyl tert-bu...		0.300	0.317	0.348	0.377	0.380	0.379	0.379	0.354	9.47
21)	TP	tert-Butyl alc...		0.004	0.005	0.006	0.006	0.007	0.007	0.007	0.006#	19.71
22)	TP	Diisopropyl ether		0.484	0.571	0.612	0.632	0.630	0.614	0.606	0.593	8.79
23)	TP	1,1-Dichloroet...		0.332	0.377	0.362	0.360	0.349	0.335	0.333	0.350	5.04
24)	TP	Halothane		0.122	0.144	0.148	0.150	0.147	0.141	0.145	0.142	6.71
25)	TP	Acrylonitrile		0.037	0.032	0.036	0.037	0.037	0.037	0.037	0.036#	5.06
26)	TP	Ethyl tert-but...		0.352	0.402	0.456	0.490	0.497	0.488	0.484	0.453	12.17
27)	TP	Vinyl acetate		0.267	0.311	0.360	0.389	0.391	0.389	0.383	0.355	13.65
28)	TP	cis-1,2-Dichlo...		0.182	0.207	0.203	0.208	0.204	0.197	0.198	0.200	4.48
29)	TP	2,2-Dichloropr...		0.194	0.248	0.264	0.276	0.281	0.266	0.273	0.257	11.62
30)	TP	Bromochloromet...		0.080	0.096	0.097	0.096	0.095	0.093	0.090	0.092	6.65
31)	TP	Cyclohexane		0.202	0.261	0.297	0.306	0.286	0.260	0.265	0.268	12.87
32)	TC	Chloroform		0.330	0.375	0.367	0.363	0.352	0.333	0.335	0.351	5.17
33)	TP	Ethyl acetate		0.102	0.106	0.108	0.117	0.117	0.118	0.117	0.112	5.93

Method Path : I:\VOLATILES\VOA105\2018\180530N\
Method File : V105_180530N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu May 31 11:54:28 2018
Response Via : Initial Calibration

Calibration Files
L11 =V05180530N03.d L1 =V05180530N04.d L2 =V05180530N06.d L3 =V05180530N08.d L4 =V05180530N09.d
L6 =V05180530N10.d L8 =V05180530N11.d L10 =V05180530N12.d

		Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
34)	TP	Carbon tetrach...	0.195	0.218	0.263	0.289	0.306	0.300	0.284	0.290	0.268	15.04
35)	TP	Tetrahydrofuran		0.039	0.034	0.031	0.033	0.032	0.031	0.031	0.033#	8.35
36)	S	Dibromofluorom...	0.268	0.267	0.273	0.270	0.272	0.271	0.265	0.262	0.269	1.41
37)	TP	1,1,1-Trichlor...		0.273	0.335	0.337	0.344	0.332	0.315	0.317	0.322	7.51
39)	TP	2-Butanone		0.044	0.049	0.045	0.047	0.047	0.047	0.046	0.046#	3.15
40)	TP	1,1-Dichloropr...		0.212	0.262	0.280	0.282	0.270	0.256	0.257	0.260	9.06
41)	TP	Benzene	0.672	0.673	0.789	0.779	0.774	0.756	0.726	0.728	0.737	6.23
42)	TP	tert-Amyl meth...		0.270	0.307	0.354	0.393	0.408	0.408	0.413	0.365	15.57
43)	S	1,2-Dichloroet...	0.324	0.321	0.325	0.327	0.313	0.314	0.316	0.309	0.319	2.02
44)	TP	1,2-Dichloroet...		0.290	0.281	0.274	0.273	0.260	0.251	0.245	0.268	6.10
47)	TP	Methyl cyclohe...		0.172	0.215	0.239	0.246	0.234	0.216	0.222	0.221	11.09
48)	TP	Trichloroethene	0.218	0.207	0.221	0.210	0.209	0.202	0.193	0.192	0.207	5.05
50)	TP	Dibromomethane		0.090	0.104	0.101	0.106	0.104	0.102	0.102	0.101	5.12
51)	TC	1,2-Dichloropr...		0.165	0.188	0.189	0.194	0.192	0.184	0.184	0.185	5.23
53)	TP	2-Chloroethyl ...			0.057	0.072	0.082	0.081	0.081	0.081	0.076	12.88
54)	TP	Bromodichlorom...		0.196	0.230	0.251	0.267	0.268	0.262	0.262	0.248	10.63
57)	TP	1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	16.77
58)	TP	cis-1,3-Dichlo...		0.173	0.228	0.280	0.306	0.311	0.305	0.305	0.273	19.29
59)	I	Chlorobenzene-d5	----------ISTD----------									
60)	S	Toluene-d8	1.289	1.289	1.317	1.310	1.303	1.294	1.293	1.298	1.299	0.78
61)	TC	Toluene		0.573	0.658	0.656	0.648	0.629	0.612	0.616	0.627	4.84
62)	TP	4-Methyl-2-pen...			0.029	0.039	0.045	0.047	0.048	0.049	0.043#	17.82
63)	TP	Tetrachloroethene		0.232	0.277	0.282	0.282	0.271	0.263	0.267	0.268	6.39
65)	TP	trans-1,3-Dich...		0.199	0.246	0.306	0.345	0.352	0.353	0.355	*L	0.9996
67)	TP	Ethyl methacry...			0.159	0.208	0.241	0.245	0.247	0.245	0.224	15.63
68)	TP	1,1,2-Trichlor...		0.133	0.151	0.173	0.172	0.165	0.163	0.161	0.160	8.81
69)	TP	Chlorodibromom...		0.138	0.173	0.207	0.232	0.240	0.241	0.265	*L	0.9969
70)	TP	1,3-Dichloropr...		0.274	0.308	0.327	0.331	0.319	0.317	0.314	0.313	5.94
71)	TP	1,2-Dibromoethane		0.133	0.164	0.177	0.184	0.182	0.182	0.183	0.172	10.91
72)	TP	2-Hexanone			0.054	0.075	0.088	0.093	0.095	0.097	0.083#	19.75
73)	TP	Chlorobenzene		0.688	0.737	0.729	0.717	0.703	0.683	0.676	0.705	3.35

Method Path : I:\VOLATILES\VOA105\2018\180530N\
Method File : V105_180530N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu May 31 11:54:28 2018
Response Via : Initial Calibration

Calibration Files
L11 =V05180530N03.d L1 =V05180530N04.d L2 =V05180530N06.d L3 =V05180530N08.d L4 =V05180530N09.d
L6 =V05180530N10.d L8 =V05180530N11.d L10 =V05180530N12.d

		Compound		L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
74)	TC	Ethylbenzene		1.060	1.219	1.258	1.251	1.220	1.181	1.171	1.194		5.66
75)	TP	1,1,1,2-Tetrac...		0.187	0.231	0.255	0.266	0.267	0.264	0.267	0.248		11.93
76)	TP	p/m Xylene		0.352	0.463	0.490	0.490	0.477	0.455	0.436	0.452		10.64
77)	TP	o Xylene		0.324	0.421	0.458	0.464	0.447	0.427	0.410	0.422		11.22
78)	TP	Styrene		0.473	0.674	0.749	0.754	0.734	0.701	0.668	0.679		14.33
79)	I	1,4-Dichlorobenzene-d4		ISTD									
80)	TP	Bromoform		0.130	0.159	0.196	0.231	0.252	0.257	0.268	*L		0.9975
82)	TP	Isopropylbenzene		1.575	2.047	2.257	2.234	2.197	2.157	2.187	2.093		11.38
83)	S	4-Bromofluorob...	0.949	0.941	0.944	0.938	0.931	0.946	0.953	0.972	0.947		1.32
84)	TP	Bromobenzene		0.557	0.595	0.595	0.590	0.586	0.579	0.584	0.584		2.24
85)	TP	n-Propylbenzene		1.987	2.407	2.553	2.493	2.430	2.376	2.379	2.375		7.70
86)	TP	1,4-Dichlorobu...		0.499	0.544	0.574	0.576	0.562	0.557	0.559	0.553		4.72
87)	TP	1,1,2,2-Tetrac...		0.317	0.342	0.351	0.355	0.348	0.349	0.350	0.345		3.71
88)	TP	4-Ethyltoluene		1.493	1.956	2.109	2.094	2.083	2.043	2.056	1.976		11.07
89)	TP	2-Chlorotoluene		1.436	1.652	1.670	1.620	1.605	1.558	1.557	1.586		4.96
90)	TP	1,3,5-Trimethy...		1.309	1.767	1.872	1.823	1.808	1.774	1.774	1.733		10.99
91)	TP	1,2,3-Trichlor...		0.326	0.310	0.313	0.309	0.298	0.299	0.300	0.308		3.29
92)	TP	trans-1,4-Dich...			0.071	0.085	0.097	0.102	0.105	0.108	0.095		14.75
93)	TP	4-Chlorotoluene		1.396	1.631	1.734	1.688	1.671	1.631	1.648	1.628		6.68
94)	TP	tert-Butylbenzene		0.985	1.246	1.409	1.401	1.382	1.353	1.382	1.308		11.66
97)	TP	1,2,4-Trimethy...		1.253	1.692	1.886	1.871	1.869	1.818	1.824	1.745		12.97
98)	TP	sec-Butylbenzene		1.240	1.685	1.833	1.820	1.779	1.749	1.805	1.702		12.31
99)	TP	p-Isopropyltol...		1.018	1.437	1.649	1.670	1.643	1.615	1.645	1.525		15.56
100)	TP	1,3-Dichlorobe...		0.917	1.045	1.074	1.061	1.043	1.026	1.039	1.029		5.03
101)	TP	1,4-Dichlorobe...		1.054	1.098	1.097	1.086	1.071	1.053	1.053	1.073		1.92
102)	TP	p-Diethylbenzene		0.579	0.804	0.922	0.928	0.932	0.922	0.941	0.861		15.44
103)	TP	n-Butylbenzene		0.962	1.282	1.388	1.351	1.330	1.307	1.350	1.281		11.32
104)	TP	1,2-Dichlorobe...		0.802	0.913	0.927	0.943	0.925	0.915	0.921	0.906		5.19
105)	TP	1,2,4,5-Tetram...			1.025	1.384	1.468	1.485	1.465	1.487	1.385		13.05
106)	TP	1,2-Dibromo-3-...		0.020	0.030	0.034	0.041	0.045	0.048	0.050	*L		0.9955
107)	TP	1,3,5-Trichlor...		0.472	0.545	0.567	0.562	0.562	0.558	0.567	0.548		6.23

Method Path : I:\VOLATILES\VOA105\2018\180530N\
Method File : V105_180530N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu May 31 11:54:28 2018
Response Via : Initial Calibration

Calibration Files
L11 =V05180530N03.d L1 =V05180530N04.d L2 =V05180530N06.d L3 =V05180530N08.d L4 =V05180530N09.d
L6 =V05180530N10.d L8 =V05180530N11.d L10 =V05180530N12.d

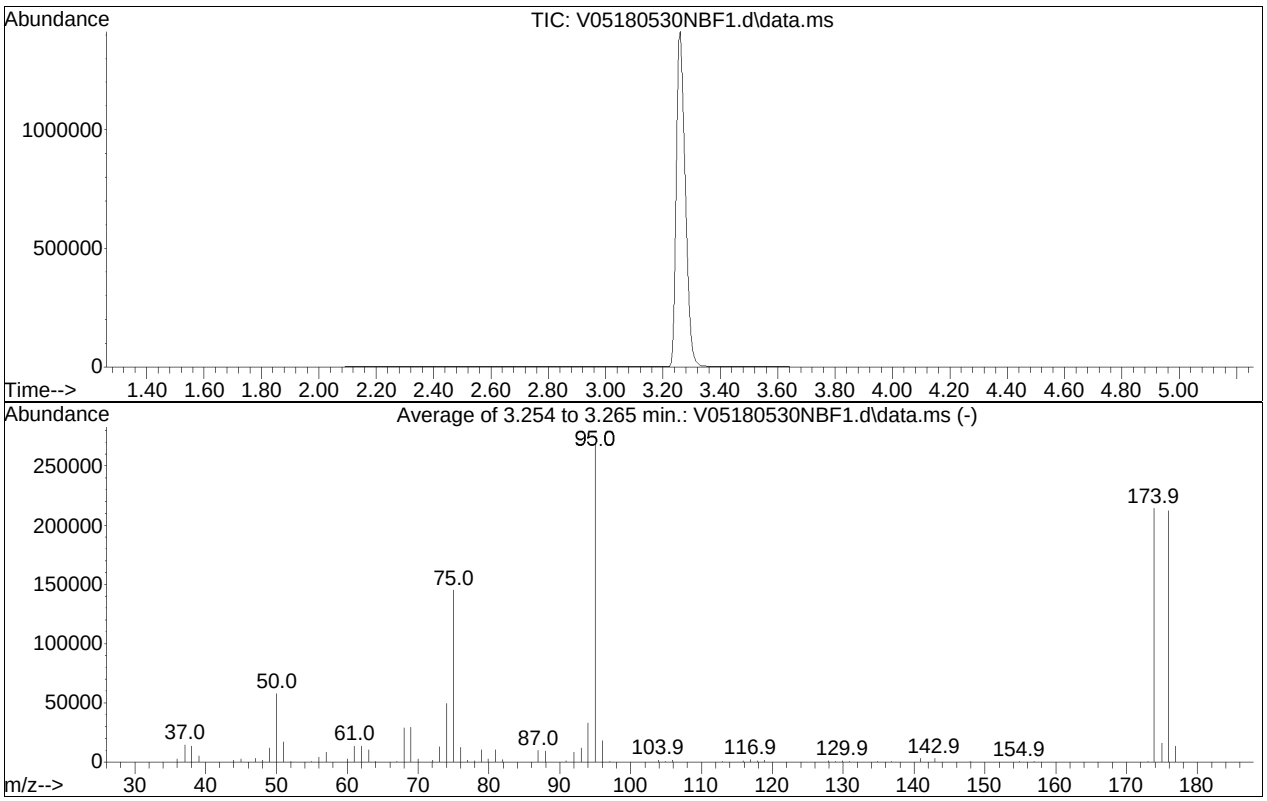
	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
108)	TP Hexachlorobuta...	0.181	0.188	0.189	0.187	0.184	0.190	0.202	0.189		3.47
109)	TP 1,2,4-Trichlor...	0.348	0.388	0.424	0.445	0.448	0.458	0.468	0.426		10.13
110)	TP Naphthalene	0.405	0.485	0.663	0.762	0.773	0.812	0.833	*L		0.9983
111)	TP 1,2,3-Trichlor...	0.233	0.262	0.285	0.297	0.292	0.309	0.311	0.284		9.86

(#) = Out of Range

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530NBF1.d
Acq On : 30 May 2018 9:01 pm
Operator : VOA105:PD
Sample : WG1121113-1
Misc : WG1121113
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu May 31 11:54:28 2018



AutoFind: Scans 214, 215, 216; Background Corrected with Scan 205

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	57867	PASS
75	95	30	60	53.8	145195	PASS
95	95	100	100	100.0	269717	PASS
96	95	5	9	6.8	18299	PASS
173	174	0.00	2	0.3	711	PASS
174	95	50	100	79.6	214677	PASS
175	174	5	9	7.4	15962	PASS
176	174	95	101	98.9	212309	PASS
177	176	5	9	6.5	13798	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N03.d
Acq On : 30 May 2018 10:10 pm
Operator : VOA105:PD
Sample : I8260STDL11
Misc : WG1121113,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 11:36:54 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:35:04 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-L11 - Level 11 for 8260-LRR product

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.154	96	637893	10.000	ug/L	0.00
Standard Area 1 = 676493			Recovery = 94.29%			
59) Chlorobenzene-d5	9.686	117	492318	10.000	ug/L	0.00
Standard Area 1 = 513181			Recovery = 95.93%			
79) 1,4-Dichlorobenzene-d4	12.360	152	245080	10.000	ug/L	0.00
Standard Area 1 = 264631			Recovery = 92.61%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.342	113	171086	9.920	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.20%			
43) 1,2-Dichloroethane-d4	5.880	65	206862	9.926	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.26%			
60) Toluene-d8	7.836	98	634466	9.840	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.40%			
83) 4-Bromofluorobenzene	11.165	95	232527	10.119	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.19%			
Target Compounds						Qvalue
4) Vinyl chloride	1.997	62	1841	0.167	ug/L #	27
34) Carbon tetrachloride	5.283	117	2494	0.135	ug/L	97
41) Benzene	5.733	78	8578	0.173	ug/L #	85
48) Trichloroethene	6.330	95	2783	0.207	ug/L	95

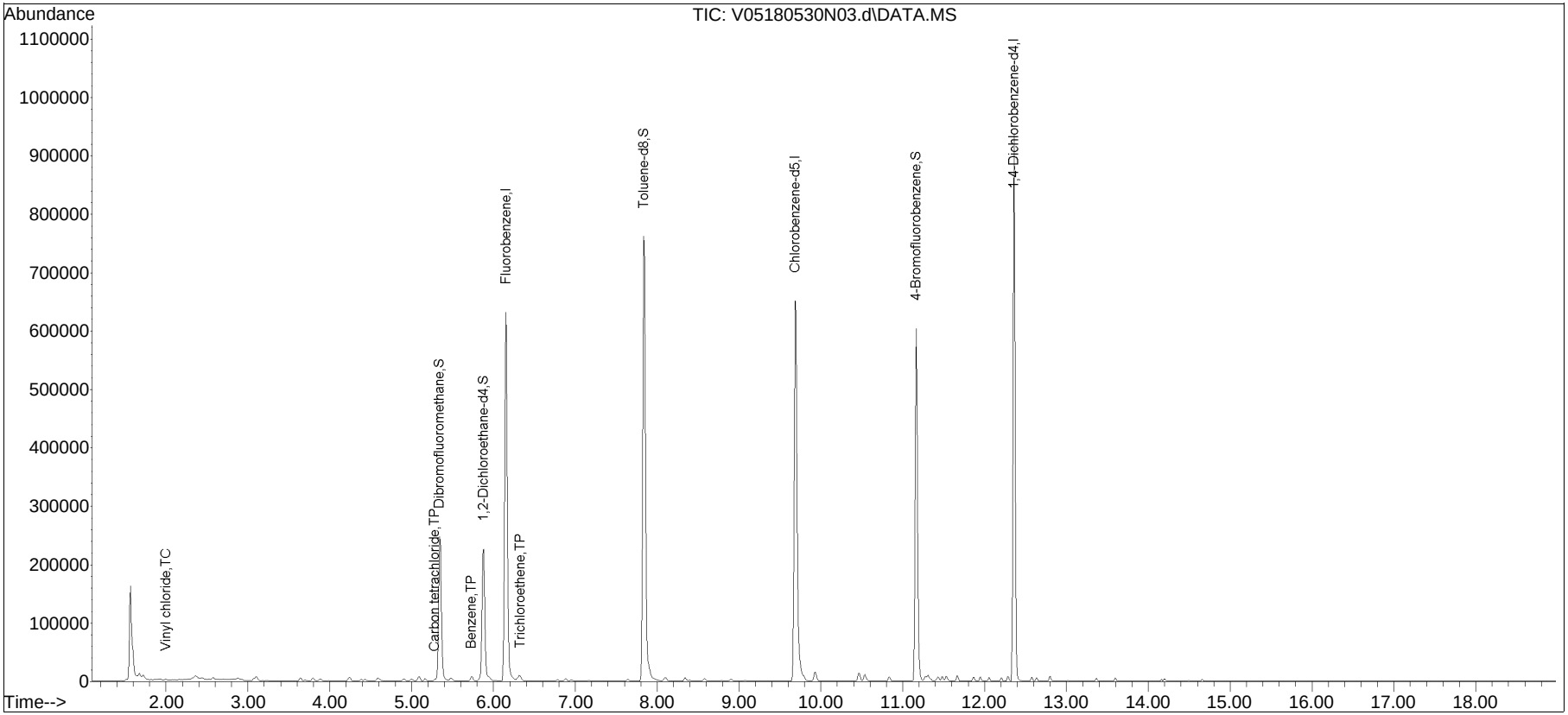
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N03.d
Acq On : 30 May 2018 10:10 pm
Operator : VOA105:PD
Sample : I8260STDL11
Misc : WG1121113,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 11:36:54 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:35:04 2018
Response via : Initial Calibration

Sub List : 8260-L11 - Level 11 for 8260-LRR product180530N08.d•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA105\2018\1	QMethod	: V105_180530N_8260.m
Data File	: V05180530N03.d	Operator	: VOA105:PD
Date Inj'd	: 5/30/2018 10:10 pm	Instrument	: VOA 105
Sample	: I8260STDL11	Quant Date	: 5/31/2018 11:36 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N04.d
Acq On : 30 May 2018 10:35 pm
Operator : VOA105:PD
Sample : I8260STDL1
Misc : WG1121113,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 11:40:46 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:37:03 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.154	96	633064	10.000	ug/L	0.00
Standard Area 1 = 676493			Recovery =	93.58%		
59) Chlorobenzene-d5	9.696	117	491052	10.000	ug/L	0.00
Standard Area 1 = 513181			Recovery =	95.69%		
79) 1,4-Dichlorobenzene-d4	12.360	152	244521	10.000	ug/L	0.00
Standard Area 1 = 264631			Recovery =	92.40%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.342	113	168761	9.899	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.99%		
43) 1,2-Dichloroethane-d4	5.880	65	202933	9.848	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.48%		
60) Toluene-d8	7.836	98	632971	9.921	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.21%		
83) 4-Bromofluorobenzene	11.165	95	230060	9.975	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.75%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.713	85	4050	0.394	ug/L	98
3) Chloromethane	1.919	50	4657	0.463	ug/L	99
4) Vinyl chloride	1.997	62	4645	0.463	ug/L	78
5) Bromomethane	2.320	94	1868	0.431	ug/L	99
6) Chloroethane	2.437	64	2693	0.503	ug/L	98
7) Trichlorofluoromethane	2.574	101	7129	0.416	ug/L	96
8) Ethyl ether	2.877	74	1964	0.520	ug/L #	79
10) 1,1-Dichloroethene	3.073	96	4543	0.449	ug/L	91
11) Carbon disulfide	3.102	76	9717	0.422	ug/L	99
12) Freon-113	3.112	101	4807	0.402	ug/L #	71
13) Iodomethane	3.219	142	1218	0.214	ug/L #	78
14) Acrolein	3.415	56	323	0.288	ug/L #	67
15) Methylene chloride	3.640	84	6111	0.523	ug/L	96
17) Acetone	3.699	43	3165	1.540	ug/L	96
18) trans-1,2-Dichloroethene	3.797	96	5352	0.453	ug/L	94
19) Methyl acetate	3.806	43	2927	0.596	ug/L #	77
20) Methyl tert-butyl ether	3.885	73	9505	0.431	ug/L	92
21) tert-Butyl alcohol	3.992	59	646	1.789	ug/L #	25
22) Diisopropyl ether	4.237	45	15313	0.396	ug/L	90
23) 1,1-Dichloroethane	4.383	63	10500	0.458	ug/L	98
24) Halothane	4.432	117	3854	0.412	ug/L	97

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N04.d
Acq On : 30 May 2018 10:35 pm
Operator : VOA105:PD
Sample : I8260STDL1
Misc : WG1121113,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 11:40:46 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:37:03 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.452	53	1164	0.517	ug/L	#	65
26) Ethyl tert-butyl ether	4.589	59	11156	0.387	ug/L		92
27) Vinyl acetate	4.618	43	8440	0.371	ug/L	#	96
28) cis-1,2-Dichloroethene	4.902	96	5761	0.448	ug/L		98
29) 2,2-Dichloropropane	5.000	77	6138	0.368	ug/L		81
30) Bromochloromethane	5.097	128	2520	0.411	ug/L		94
31) Cyclohexane	5.088	56	6392	0.340	ug/L		98
32) Chloroform	5.166	83	10461	0.450	ug/L		97
33) Ethyl acetate	5.283	43	3224	0.470	ug/L	#	75
34) Carbon tetrachloride	5.293	117	6910	0.451	ug/L		97
35) Tetrahydrofuran	5.322	42	1229	0.624	ug/L	#	61
37) 1,1,1-Trichloroethane	5.361	97	8628	0.404	ug/L		98
39) 2-Butanone	5.469	43	1394	0.489	ug/L	#	76
40) 1,1-Dichloropropene	5.489	75	6710	0.379	ug/L		96
41) Benzene	5.733	78	21294	0.463	ug/L		99
42) tert-Amyl methyl ether	5.831	73	8546	0.381	ug/L		87
44) 1,2-Dichloroethane	5.948	62	9186	0.530	ug/L		98
47) Methyl cyclohexane	6.300	83	5442	0.359	ug/L		98
48) Trichloroethene	6.330	95	6559	0.483	ug/L		96
50) Dibromomethane	6.780	93	2851	0.444	ug/L		91
51) 1,2-Dichloropropane	6.877	63	5222	0.437	ug/L		98
53) 2-Chloroethyl vinyl ether	7.582	63	1296	0.284	ug/L	#	87
54) Bromodichloromethane	6.946	83	6210	0.391	ug/L	#	93
57) 1,4-Dioxane	7.161	88	3897	62.054	ug/L		89
58) cis-1,3-Dichloropropene	7.640	75	5487	0.309	ug/L		93
61) Toluene	7.895	92	14063	0.436	ug/L		92
62) 4-Methyl-2-pentanone	8.345	58	497	0.260	ug/L	#	42
63) Tetrachloroethene	8.345	166	5708	0.412	ug/L		95
65) trans-1,3-Dichloropropene	8.393	75	4877	0.325	ug/L		97
67) Ethyl methacrylate	8.570	69	2290	0.225	ug/L	#	50
68) 1,1,2-Trichloroethane	8.579	83	3259	0.383	ug/L		90
69) Chlorodibromomethane	8.785	129	3398	0.335	ug/L		97
70) 1,3-Dichloropropane	8.902	76	6736	0.420	ug/L		97
71) 1,2-Dibromoethane	9.079	107	3258	0.375	ug/L		99
72) 2-Hexanone	9.373	43	1185	0.322	ug/L	#	66
73) Chlorobenzene	9.715	112	16904	0.472	ug/L	#	84
74) Ethylbenzene	9.745	91	26024	0.421	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.794	131	4603	0.367	ug/L	#	65
76) p/m Xylene	9.931	106	17300	0.720	ug/L		98
77) o Xylene	10.460	106	15918	0.708	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N04.d
Acq On : 30 May 2018 10:35 pm
Operator : VOA105:PD
Sample : I8260STDL1
Misc : WG1121113,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 11:40:46 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:37:03 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.538	104	23208	0.631	ug/L		100
80) Bromoform	10.558	173	1584	0.331	ug/L		90
82) Isopropylbenzene	10.832	105	19255	0.349	ug/L		97
84) Bromobenzene	11.283	156	6814	0.468	ug/L		99
85) n-Propylbenzene	11.312	91	24288	0.389	ug/L		98
86) 1,4-Dichlorobutane	11.342	55	6104	0.435	ug/L		98
87) 1,1,2,2-Tetrachloroethane	11.410	83	3874	0.452	ug/L		99
88) 4-Ethyltoluene	11.430	105	18258	0.354	ug/L		99
89) 2-Chlorotoluene	11.479	91	17557M1	0.430	ug/L		
90) 1,3,5-Trimethylbenzene	11.528	105	16004	0.350	ug/L		97
91) 1,2,3-Trichloropropane	11.547	75	3987M1	0.521	ug/L		
92) trans-1,4-Dichloro-2-b...	11.606	53	699	0.336	ug/L	#	21
93) 4-Chlorotoluene	11.665	91	17066	0.403	ug/L		96
94) tert-Butylbenzene	11.871	119	12048	0.350	ug/L		97
97) 1,2,4-Trimethylbenzene	11.949	105	15325	0.332	ug/L		99
98) sec-Butylbenzene	12.057	105	15165	0.338	ug/L		100
99) p-Isopropyltoluene	12.204	119	12444	0.309	ug/L		98
100) 1,3-Dichlorobenzene	12.282	146	11216	0.427	ug/L		98
101) 1,4-Dichlorobenzene	12.370	146	12883M2	0.480	ug/L		
102) p-Diethylbenzene	12.576	119	7082	0.314	ug/L		98
103) n-Butylbenzene	12.635	91	11757	0.346	ug/L		96
104) 1,2-Dichlorobenzene	12.801	146	9806	0.433	ug/L		99
105) 1,2,4,5-Tetramethylben...	13.369	119	9256	0.274	ug/L		98
106) 1,2-Dibromo-3-chloropr...	13.575	155	239	0.284	ug/L		90
107) 1,3,5-Trichlorobenzene	13.595	180	5771	0.417	ug/L		97
108) Hexachlorobutadiene	14.163	225	2211	0.480	ug/L		88
109) 1,2,4-Trichlorobenzene	14.192	180	4253	0.410	ug/L	#	92
110) Naphthalene	14.496	128	4946	0.305	ug/L		100
111) 1,2,3-Trichlorobenzene	14.662	180	2844	0.409	ug/L		98

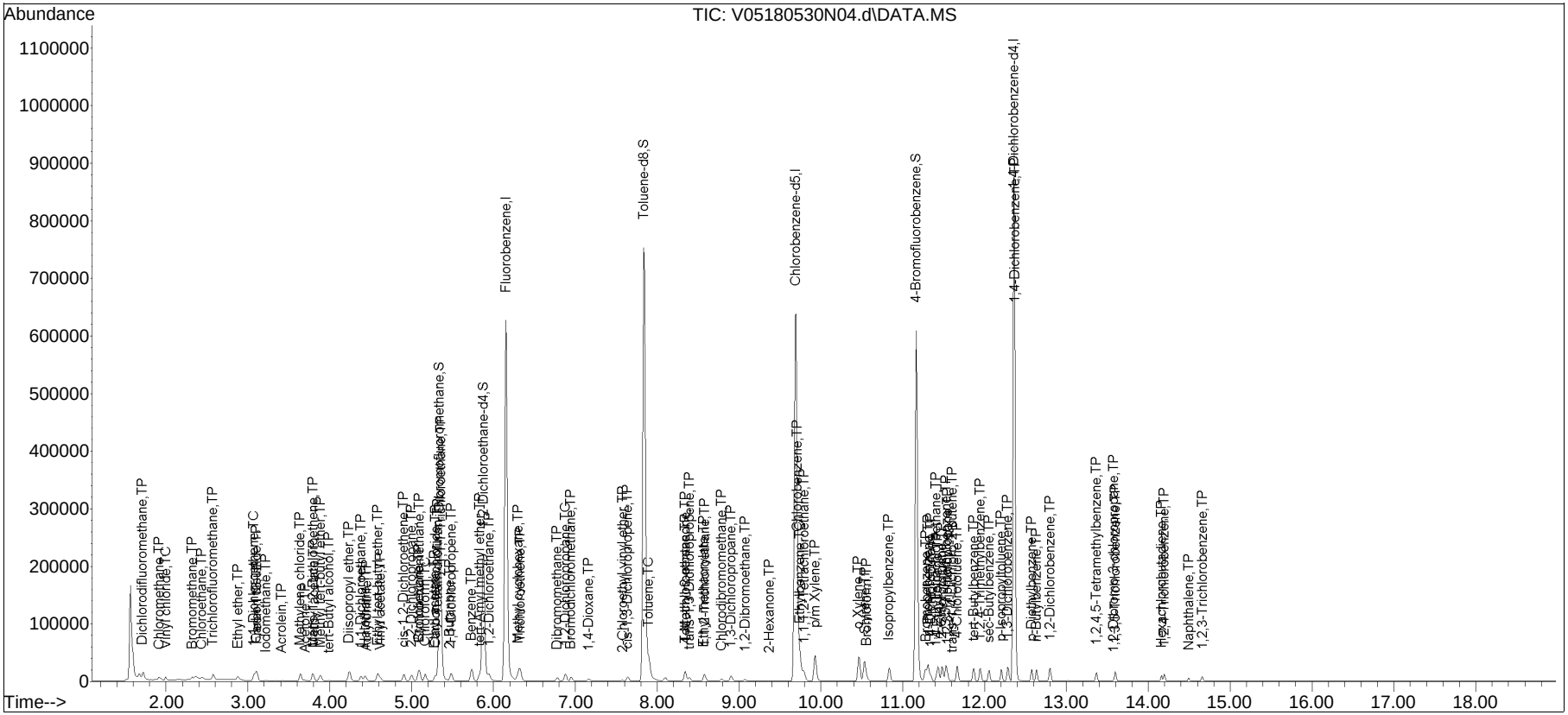
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N04.d
Acq On : 30 May 2018 10:35 pm
Operator : VOA105:PD
Sample : I8260STDL1
Misc : WG1121113,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 31 11:40:46 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:37:03 2018
Response via : Initial Calibration

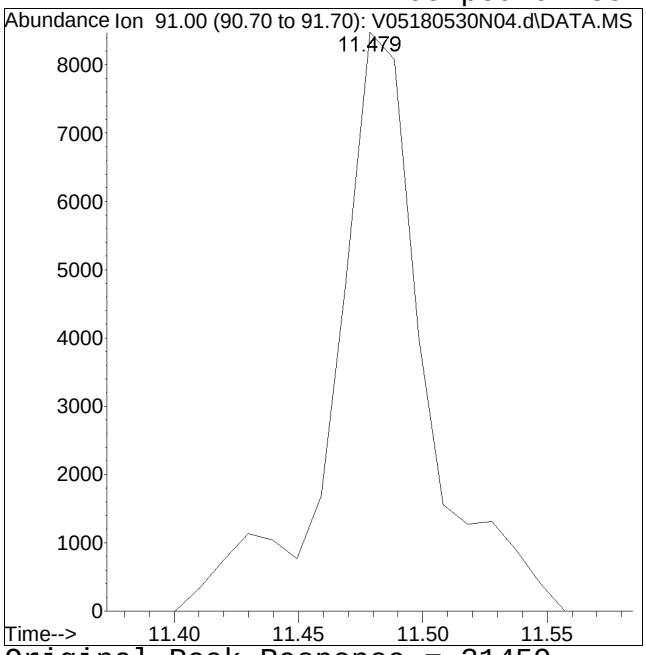
Sub List : 8260-Curve - Megamix plus Diox80530N\V05180530N08.d•

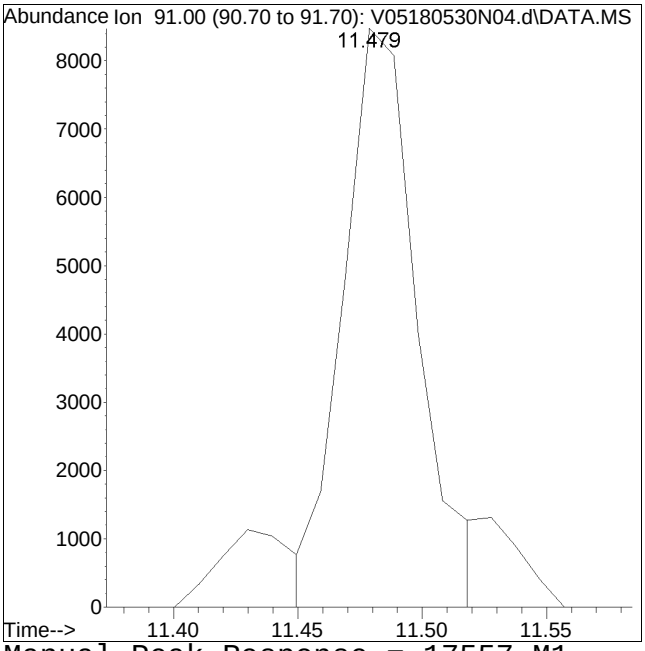


Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1QMethod : V105_180530N_8260.m
Data File : V05180530N04.d Operator : VOA105:PD
Date Inj'd : 5/30/2018 10:35 pm Instrument : VOA 105
Sample : I8260STDL1 Quant Date : 5/31/2018 11:39 am

Compound #89: 2-Chlorotoluene



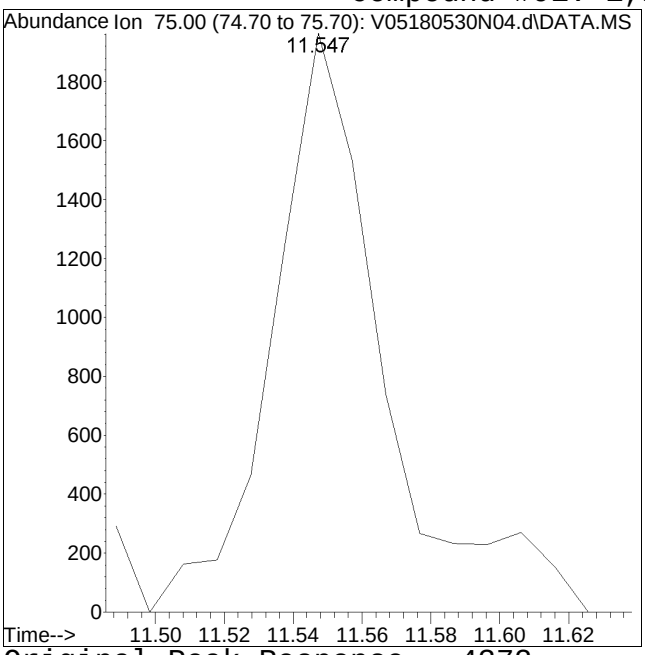


Original Peak Response = 21459 Manual Peak Response = 17557 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

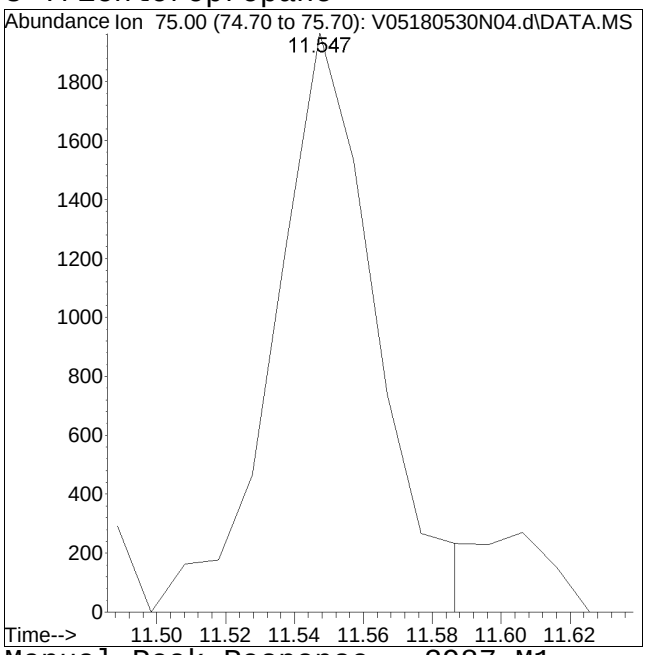
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1QMethod : V105_180530N_8260.m
Data File : V05180530N04.d Operator : VOA105:PD
Date Inj'd : 5/30/2018 10:35 pm Instrument : VOA 105
Sample : I8260STDL1 Quant Date : 5/31/2018 11:39 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 4372



Manual Peak Response = 3987 M1

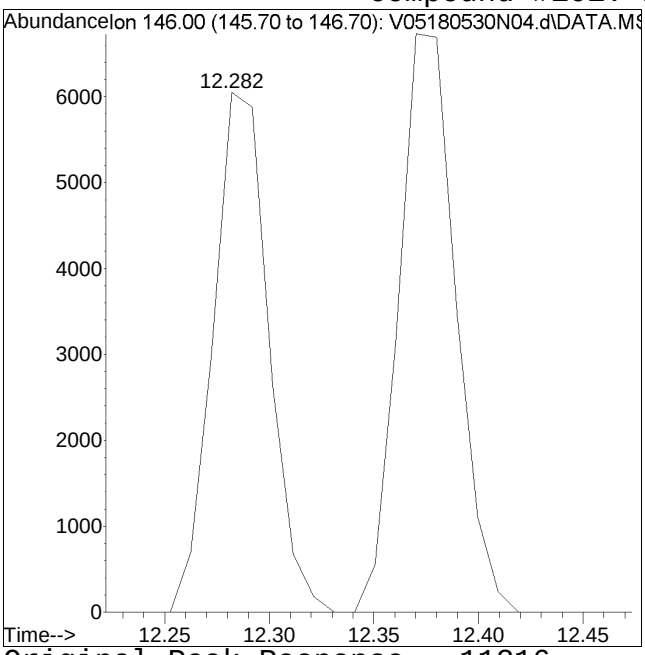
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

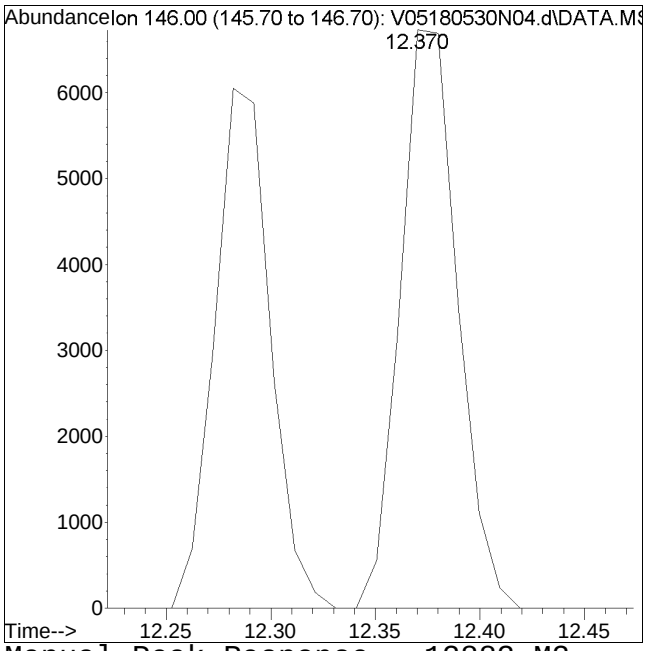
Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N04.d
Date Inj'd : 5/30/2018 10:35 pm
Sample : I8260STDL1

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 11:39 am

Compound #101: 1,4-Dichlorobenzene



Original Peak Response = 11216



Manual Peak Response = 12883 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N06.d
Acq On : 30 May 2018 11:25 pm
Operator : VOA105:PD
Sample : I8260STDL2
Misc : WG1121113,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 11:42:27 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:40:58 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.154	96	654247	10.000	ug/L	0.00
Standard Area 1 = 676493			Recovery =	96.71%		
59) Chlorobenzene-d5	9.686	117	497178	10.000	ug/L	0.00
Standard Area 1 = 513181			Recovery =	96.88%		
79) 1,4-Dichlorobenzene-d4	12.361	152	254788	10.000	ug/L	0.00
Standard Area 1 = 264631			Recovery =	96.28%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.342	113	178343	10.157	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.57%		
43) 1,2-Dichloroethane-d4	5.880	65	212506	10.030	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.30%		
60) Toluene-d8	7.836	98	654721	10.162	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.62%		
83) 4-Bromofluorobenzene	11.165	95	240592	10.020	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.20%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.713	85	20283	2.137	ug/L	98
3) Chloromethane	1.909	50	23054	2.303	ug/L	99
4) Vinyl chloride	1.997	62	22989	2.274	ug/L	97
5) Bromomethane	2.320	94	9132	2.191	ug/L	99
6) Chloroethane	2.437	64	11898	2.144	ug/L	97
7) Trichlorofluoromethane	2.574	101	35661	2.199	ug/L	100
8) Ethyl ether	2.877	74	7847	1.972	ug/L	94
10) 1,1-Dichloroethene	3.073	96	21478	2.163	ug/L	95
11) Carbon disulfide	3.102	76	43292	1.972	ug/L	98
12) Freon-113	3.112	101	23867	2.140	ug/L #	63
13) Iodomethane	3.220	142	5252	1.249	ug/L	93
14) Acrolein	3.415	56	2148	2.351	ug/L	94
15) Methylene chloride	3.640	84	25429	2.059	ug/L	98
17) Acetone	3.699	43	6293	1.452	ug/L	95
18) trans-1,2-Dichloroethene	3.787	96	24308	2.089	ug/L	97
19) Methyl acetate	3.806	43	10998	1.977	ug/L #	92
20) Methyl tert-butyl ether	3.885	73	41480	1.955	ug/L	94
21) tert-Butyl alcohol	3.982	59	3300	10.309	ug/L #	62
22) Diisopropyl ether	4.237	45	74774	2.087	ug/L	97
23) 1,1-Dichloroethane	4.384	63	49387	2.176	ug/L	98
24) Halothane	4.432	117	18837	2.136	ug/L	99

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N06.d
Acq On : 30 May 2018 11:25 pm
Operator : VOA105:PD
Sample : I8260STDL2
Misc : WG1121113,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 11:42:27 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:40:58 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.442	53	4202	1.776	ug/L		94
26) Ethyl tert-butyl ether	4.589	59	52601	1.989	ug/L		93
27) Vinyl acetate	4.618	43	40668	1.985	ug/L		98
28) cis-1,2-Dichloroethene	4.902	96	27049	2.147	ug/L		97
29) 2,2-Dichloropropane	5.000	77	32428	2.167	ug/L		91
30) Bromochloromethane	5.098	128	12618	2.187	ug/L		88
31) Cyclohexane	5.088	56	34175	2.092	ug/L		93
32) Chloroform	5.166	83	49101	2.152	ug/L		98
33) Ethyl acetate	5.274	43	13893	2.020	ug/L		97
34) Carbon tetrachloride	5.293	117	34467	2.250	ug/L		99
35) Tetrahydrofuran	5.322	42	4426M2	1.935	ug/L		
37) 1,1,1-Trichloroethane	5.362	97	43885	2.199	ug/L		98
39) 2-Butanone	5.469	43	6353	2.181	ug/L		86
40) 1,1-Dichloropropene	5.479	75	34226	2.129	ug/L		97
41) Benzene	5.733	78	103265	2.229	ug/L		99
42) tert-Amyl methyl ether	5.831	73	40207	1.970	ug/L		89
44) 1,2-Dichloroethane	5.948	62	36814	1.995	ug/L		99
47) Methyl cyclohexane	6.301	83	28177	2.095	ug/L		97
48) Trichloroethene	6.330	95	28887	2.083	ug/L		97
50) Dibromomethane	6.780	93	13585	2.169	ug/L		93
51) 1,2-Dichloropropane	6.878	63	24618	2.127	ug/L		98
53) 2-Chloroethyl vinyl ether	7.572	63	7521	2.033	ug/L	#	81
54) Bromodichloromethane	6.946	83	30160	2.061	ug/L		99
57) 1,4-Dioxane	7.161	88	18018	342.628	ug/L		95
58) cis-1,3-Dichloropropene	7.641	75	29829	2.011	ug/L		95
61) Toluene	7.895	92	65416	2.141	ug/L		96
62) 4-Methyl-2-pentanone	8.335	58	2892	1.967	ug/L	#	76
63) Tetrachloroethene	8.345	166	27524	2.152	ug/L		94
65) trans-1,3-Dichloropropene	8.394	75	24466	1.952	ug/L		96
67) Ethyl methacrylate	8.570	69	15857	2.120	ug/L		89
68) 1,1,2-Trichloroethane	8.579	83	15011	1.973	ug/L		93
69) Chlorodibromomethane	8.785	129	17156	1.999	ug/L		96
70) 1,3-Dichloropropane	8.903	76	30626	2.049	ug/L		99
71) 1,2-Dibromoethane	9.069	107	16331	2.120	ug/L		100
72) 2-Hexanone	9.353	43	5359	1.751	ug/L		98
73) Chlorobenzene	9.716	112	73246	2.078	ug/L		99
74) Ethylbenzene	9.745	91	121260	2.105	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.794	131	22990	2.088	ug/L		97
76) p/m Xylene	9.931	106	91989	4.396	ug/L		95
77) o Xylene	10.460	106	83727	4.307	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N06.d
Acq On : 30 May 2018 11:25 pm
Operator : VOA105:PD
Sample : I8260STDL2
Misc : WG1121113,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 11:42:27 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:40:58 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.529	104	134072	4.415	ug/L		99
80) Bromoform	10.568	173	8127	1.961	ug/L		99
82) Isopropylbenzene	10.832	105	104330	2.137	ug/L		98
84) Bromobenzene	11.273	156	30329	2.066	ug/L		96
85) n-Propylbenzene	11.312	91	122663	2.121	ug/L		98
86) 1,4-Dichlorobutane	11.342	55	27716	2.027	ug/L		98
87) 1,1,2,2-Tetrachloroethane	11.410	83	17446	2.051	ug/L		100
88) 4-Ethyltoluene	11.430	105	99681	2.172	ug/L		97
89) 2-Chlorotoluene	11.479	91	84207M1	2.128	ug/L		
90) 1,3,5-Trimethylbenzene	11.528	105	90032	2.222	ug/L		98
91) 1,2,3-Trichloropropane	11.547	75	15780M1	1.938	ug/L		
92) trans-1,4-Dichloro-2-b...	11.606	53	3631	2.002	ug/L	#	42
93) 4-Chlorotoluene	11.665	91	83105	2.085	ug/L		95
94) tert-Butylbenzene	11.871	119	63499	2.082	ug/L		98
97) 1,2,4-Trimethylbenzene	11.949	105	86207	2.156	ug/L		97
98) sec-Butylbenzene	12.057	105	85888	2.194	ug/L		97
99) p-Isopropyltoluene	12.204	119	73250	2.156	ug/L		99
100) 1,3-Dichlorobenzene	12.282	146	53261	2.100	ug/L		98
101) 1,4-Dichlorobenzene	12.380	146	55956	2.042	ug/L		97
102) p-Diethylbenzene	12.576	119	40988	2.143	ug/L		96
103) n-Butylbenzene	12.635	91	65328	2.182	ug/L		98
104) 1,2-Dichlorobenzene	12.801	146	46526	2.112	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.370	119	52210	1.915	ug/L		97
106) 1,2-Dibromo-3-chloropr...	13.575	155	1540	2.238	ug/L		95
107) 1,3,5-Trichlorobenzene	13.595	180	27796	2.101	ug/L		97
108) Hexachlorobutadiene	14.163	225	9590	2.038	ug/L		98
109) 1,2,4-Trichlorobenzene	14.192	180	19795	2.012	ug/L		97
110) Naphthalene	14.496	128	24724	1.818	ug/L		100
111) 1,2,3-Trichlorobenzene	14.653	180	13336	2.024	ug/L		98

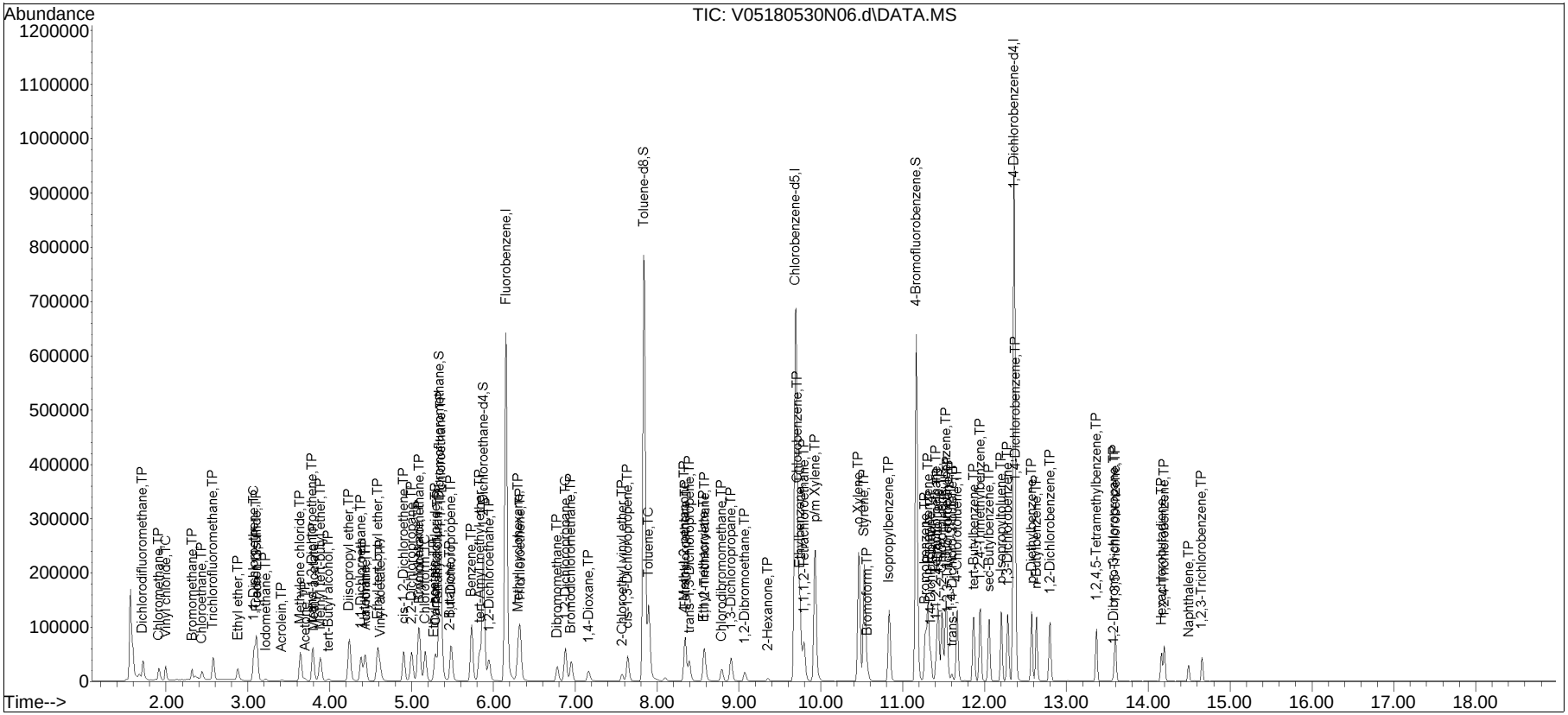
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N06.d
Acq On : 30 May 2018 11:25 pm
Operator : VOA105:PD
Sample : I8260STDL2
Misc : WG1121113,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 11:42:27 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:40:58 2018
Response via : Initial Calibration

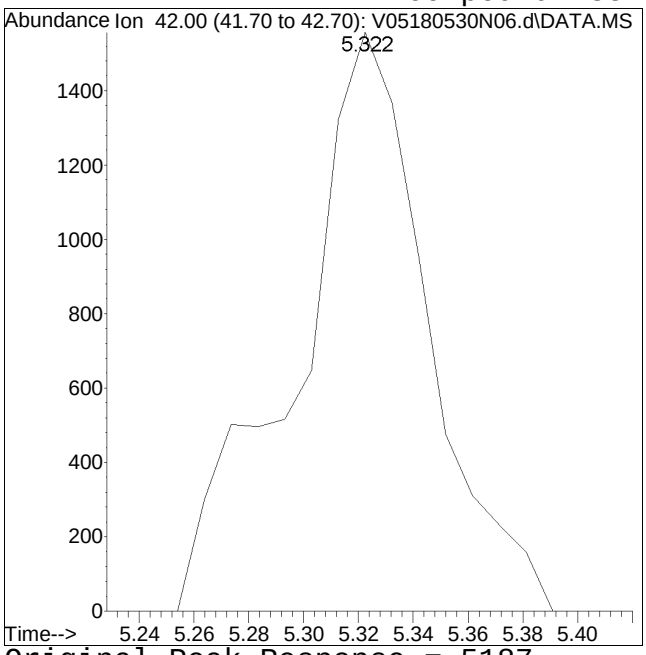
Sub List : 8260-Curve - Megamix plus Diox80530N\V05180530N08.d•



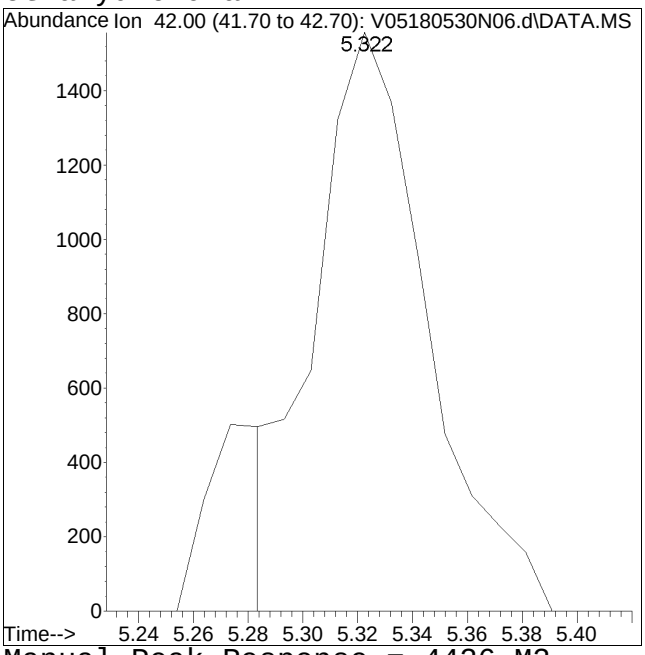
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1QMethod : V105_180530N_8260.m
Data File : V05180530N06.d Operator : VOA105:PD
Date Inj'd : 5/30/2018 11:25 pm Instrument : VOA 105
Sample : I8260STDL2 Quant Date : 5/31/2018 11:41 am

Compound #35: Tetrahydrofuran



Original Peak Response = 5187



Manual Peak Response = 4426 M2

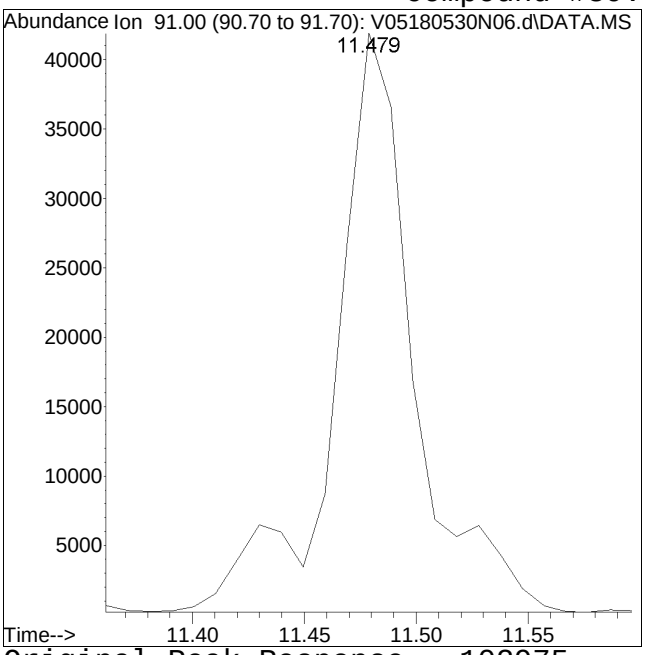
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

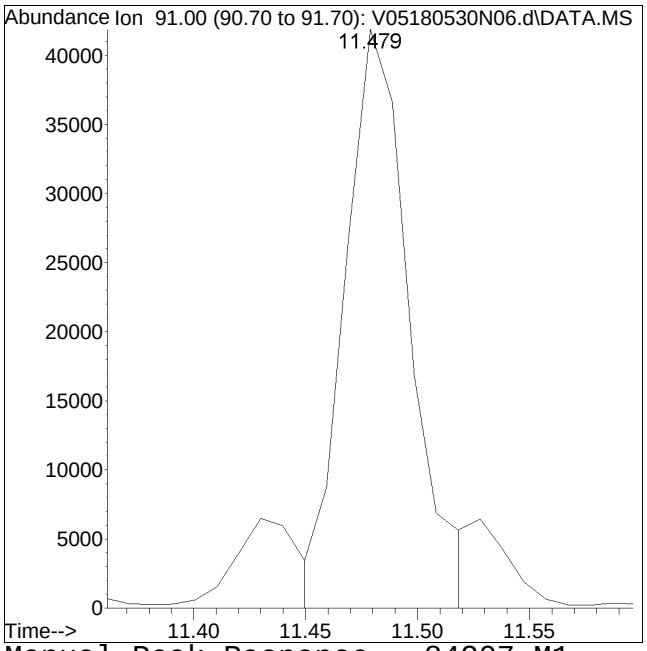
Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N06.d
Date Inj'd : 5/30/2018 11:25 pm
Sample : I8260STDL2

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 11:41 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 102975



Manual Peak Response = 84207 M1

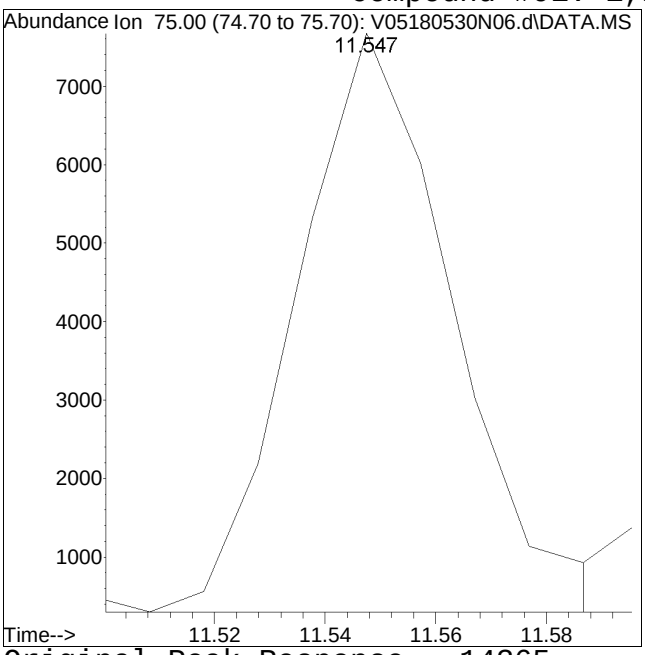
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

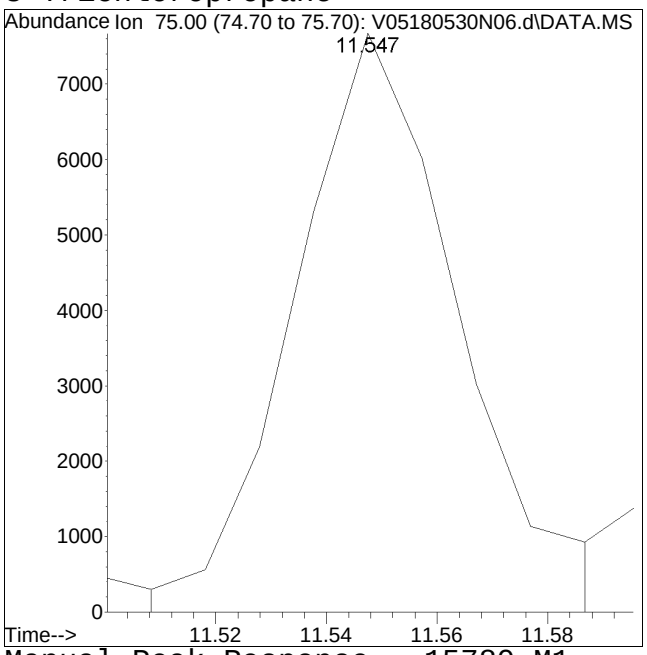
Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N06.d
Date Inj'd : 5/30/2018 11:25 pm
Sample : I8260STDL2

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 11:41 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 14365



Manual Peak Response = 15780 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N08.d
Acq On : 31 May 2018 12:15 am
Operator : VOA105:PD
Sample : I8260STDL3
Misc : WG1121113,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 12:15:25 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.154	96	676493	10.000	ug/L	0.00
Standard Area 1 = 676493			Recovery = 100.00%			
59) Chlorobenzene-d5	9.686	117	513181	10.000	ug/L	0.00
Standard Area 1 = 513181			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.360	152	264631	10.000	ug/L	0.00
Standard Area 1 = 264631			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.342	113	182907	10.068	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.68%			
43) 1,2-Dichloroethane-d4	5.880	65	221010	10.254	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.54%			
60) Toluene-d8	7.836	98	672132	10.083	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.83%			
83) 4-Bromofluorobenzene	11.165	95	248135	9.904	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.04%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.713	85	109728	11.172	ug/L	100
3) Chloromethane	1.909	50	107489	10.446	ug/L	98
4) Vinyl chloride	1.997	62	116698	10.820	ug/L	95
5) Bromomethane	2.320	94	46261M1	9.907	ug/L	
6) Chloroethane	2.437	64	57231	10.468	ug/L	98
7) Trichlorofluoromethane	2.574	101	182989	10.896	ug/L	98
8) Ethyl ether	2.877	74	40328	10.077	ug/L	98
10) 1,1-Dichloroethene	3.073	96	108221	10.348	ug/L	96
11) Carbon disulfide	3.102	76	246031	10.071	ug/L	98
12) Freon-113	3.112	101	127925	11.040	ug/L #	67
13) Iodomethane	3.220	142	60928M1	6.098	ug/L	
14) Acrolein	3.415	56	11992	9.346	ug/L	95
15) Methylene chloride	3.640	84	124754	10.272	ug/L	98
17) Acetone	3.689	43	21966	9.762	ug/L	96
18) trans-1,2-Dichloroethene	3.797	96	126220	10.354	ug/L	95
19) Methyl acetate	3.806	43	52133	9.333	ug/L	95
20) Methyl tert-butyl ether	3.885	73	235615	9.827	ug/L	99
21) tert-Butyl alcohol	3.992	59	19292	47.243	ug/L #	80
22) Diisopropyl ether	4.237	45	413728	10.317	ug/L	99
23) 1,1-Dichloroethane	4.383	63	244951	10.358	ug/L	99
24) Halothane	4.432	117	100045	10.389	ug/L	99

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N08.d
Acq On : 31 May 2018 12:15 am
Operator : VOA105:PD
Sample : I8260STDL3
Misc : WG1121113,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 12:15:25 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.442	53	24065	9.863	ug/L		98
26) Ethyl tert-butyl ether	4.589	59	308387	10.069	ug/L		94
27) Vinyl acetate	4.618	43	243227	10.115	ug/L		99
28) cis-1,2-Dichloroethene	4.902	96	137364	10.156	ug/L		97
29) 2,2-Dichloropropane	5.000	77	178266	10.244	ug/L		98
30) Bromochloromethane	5.097	128	65465	10.467	ug/L		89
31) Cyclohexane	5.088	56	201190	11.086	ug/L		95
32) Chloroform	5.166	83	248242	10.458	ug/L		98
33) Ethyl acetate	5.274	43	73341	9.655	ug/L		99
34) Carbon tetrachloride	5.293	117	195205	10.759	ug/L		99
35) Tetrahydrofuran	5.322	42	21048M1	9.408	ug/L		
37) 1,1,1-Trichloroethane	5.362	97	228219	10.483	ug/L		99
39) 2-Butanone	5.469	43	30438	9.718	ug/L		95
40) 1,1-Dichloropropene	5.479	75	188972	10.753	ug/L		98
41) Benzene	5.733	78	527098	10.570	ug/L		100
42) tert-Amyl methyl ether	5.831	73	239403	9.697	ug/L		97
44) 1,2-Dichloroethane	5.948	62	185366	10.227	ug/L		100
47) Methyl cyclohexane	6.310	83	161843	10.844	ug/L		96
48) Trichloroethene	6.330	95	142378	10.184	ug/L		94
50) Dibromomethane	6.780	93	68569	10.013	ug/L		92
51) 1,2-Dichloropropane	6.878	63	127715	10.191	ug/L		99
53) 2-Chloroethyl vinyl ether	7.572	63	48801	9.505	ug/L	#	80
54) Bromodichloromethane	6.946	83	169907	10.118	ug/L		99
57) 1,4-Dioxane	7.161	88	33554	589.902	ug/L		94
58) cis-1,3-Dichloropropene	7.640	75	189538	10.277	ug/L		99
61) Toluene	7.895	92	336770	10.460	ug/L		98
62) 4-Methyl-2-pentanone	8.345	58	19966	9.071	ug/L		98
63) Tetrachloroethene	8.345	166	144729	10.533	ug/L		96
65) trans-1,3-Dichloropropene	8.394	75	156812	8.984	ug/L		98
67) Ethyl methacrylate	8.570	69	106537	9.259	ug/L		97
68) 1,1,2-Trichloroethane	8.579	83	88983	10.862	ug/L		97
69) Chlorodibromomethane	8.785	129	106123	8.627	ug/L		99
70) 1,3-Dichloropropane	8.902	76	167729	10.450	ug/L		98
71) 1,2-Dibromoethane	9.069	107	90905	10.279	ug/L		99
72) 2-Hexanone	9.353	43	38407	8.967	ug/L		97
73) Chlorobenzene	9.716	112	374264	10.350	ug/L		93
74) Ethylbenzene	9.745	91	645528	10.532	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.794	131	131075	10.295	ug/L		99
76) p/m Xylene	9.931	106	502465	21.673	ug/L		93
77) o Xylene	10.460	106	469879	21.718	ug/L		94

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N08.d
Acq On : 31 May 2018 12:15 am
Operator : VOA105:PD
Sample : I8260STDL3
Misc : WG1121113,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 12:15:25 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.529	104	768846	22.062	ug/L	99
80) Bromoform	10.568	173	51792	8.019	ug/L	99
82) Isopropylbenzene	10.832	105	597234	10.781	ug/L	99
84) Bromobenzene	11.273	156	157524	10.197	ug/L	99
85) n-Propylbenzene	11.312	91	675731	10.751	ug/L	98
86) 1,4-Dichlorobutane	11.342	55	151967	10.383	ug/L	99
87) 1,1,2,2-Tetrachloroethane	11.410	83	92812	10.179	ug/L	99
88) 4-Ethyltoluene	11.430	105	558207	10.673	ug/L	99
89) 2-Chlorotoluene	11.479	91	441952M1	10.533	ug/L	
90) 1,3,5-Trimethylbenzene	11.528	105	495403	10.805	ug/L	99
91) 1,2,3-Trichloropropane	11.547	75	82846M1	10.173	ug/L	
92) trans-1,4-Dichloro-2-b...	11.596	53	22538M1	8.991	ug/L	
93) 4-Chlorotoluene	11.665	91	458747	10.646	ug/L	96
94) tert-Butylbenzene	11.861	119	372816	10.769	ug/L	96
97) 1,2,4-Trimethylbenzene	11.949	105	499072	10.809	ug/L	98
98) sec-Butylbenzene	12.057	105	484989	10.770	ug/L	96
99) p-Isopropyltoluene	12.204	119	436497	10.813	ug/L	97
100) 1,3-Dichlorobenzene	12.282	146	284193	10.433	ug/L	98
101) 1,4-Dichlorobenzene	12.380	146	290269	10.222	ug/L	99
102) p-Diethylbenzene	12.576	119	244102	10.708	ug/L	97
103) n-Butylbenzene	12.635	91	367421	10.835	ug/L	98
104) 1,2-Dichlorobenzene	12.801	146	245252	10.224	ug/L	99
105) 1,2,4,5-Tetramethylben...	13.360	119	366129	9.987	ug/L	97
106) 1,2-Dibromo-3-chloropr...	13.575	155	9122	7.739	ug/L	98
107) 1,3,5-Trichlorobenzene	13.595	180	149919	10.344	ug/L	96
108) Hexachlorobutadiene	14.163	225	49896	10.000	ug/L	99
109) 1,2,4-Trichlorobenzene	14.192	180	112311	9.971	ug/L	97
110) Naphthalene	14.486	128	175473	8.611	ug/L	100
111) 1,2,3-Trichlorobenzene	14.653	180	75331	10.025	ug/L	98

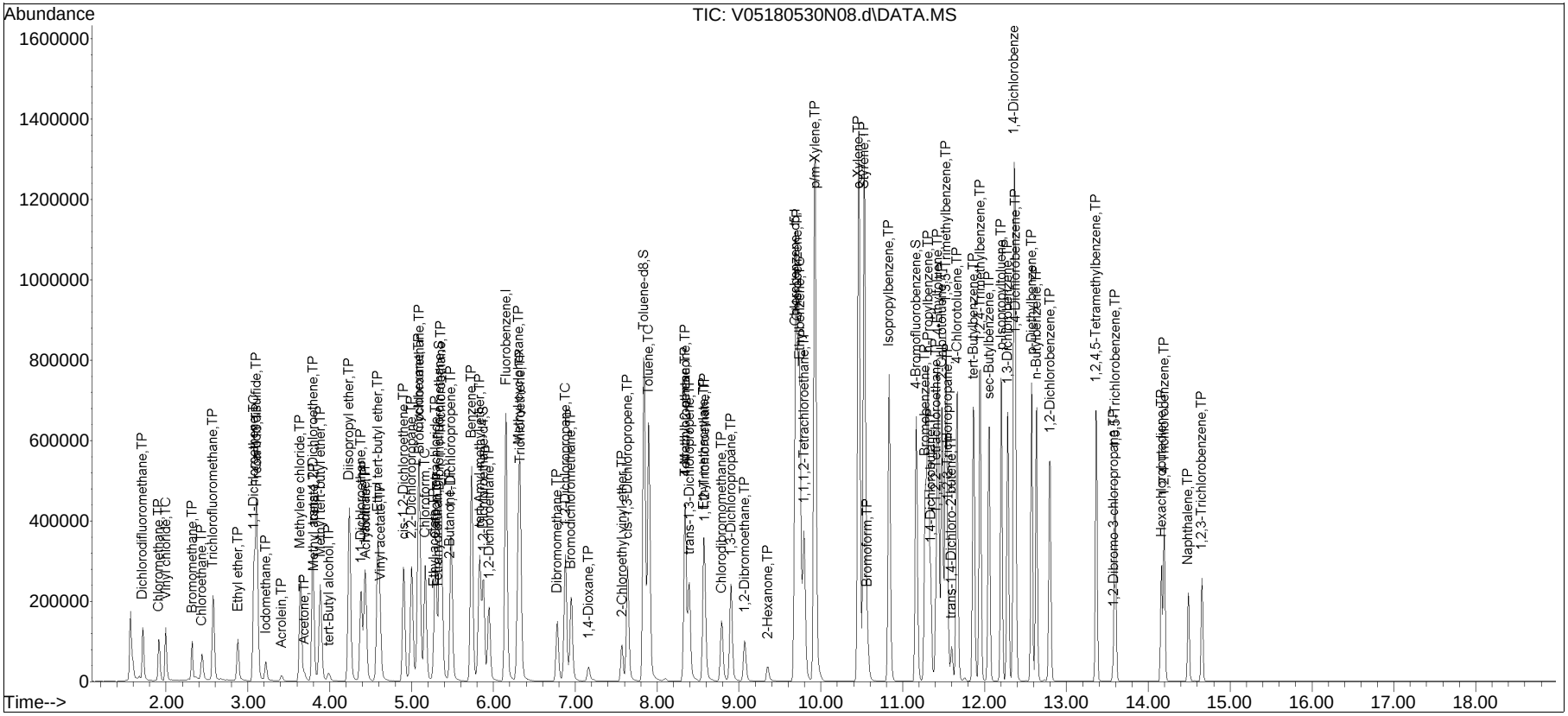
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N08.d
Acq On : 31 May 2018 12:15 am
Operator : VOA105:PD
Sample : I8260STDL3
Misc : WG1121113,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 12:15:25 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

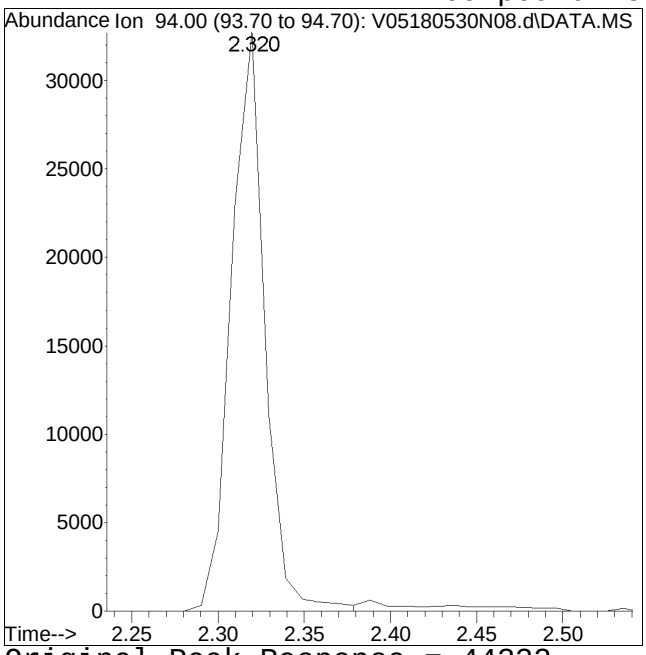
Sub List : 8260-Curve - Megamix plus Diox80530N\V05180530N08.d•



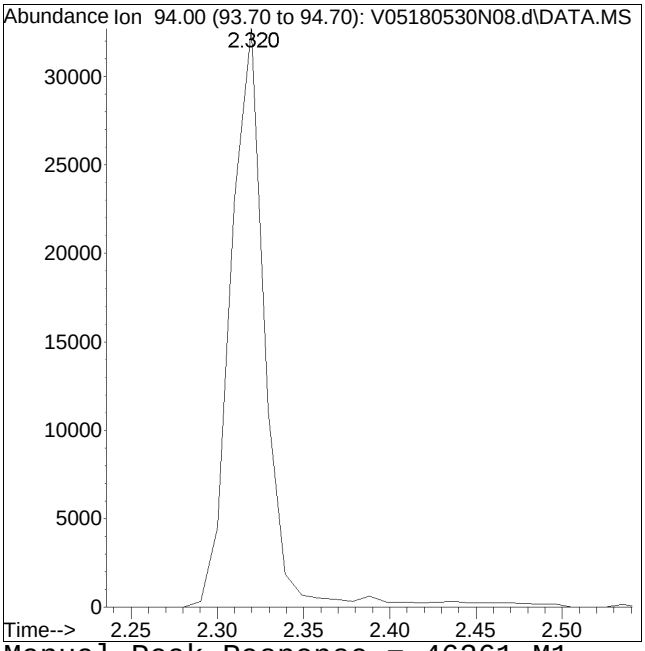
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1QMethod : V105_180530N_8260.m
Data File : V05180530N08.d Operator : VOA105:PD
Date Inj'd : 5/31/2018 12:15 am Instrument : VOA 105
Sample : I8260STDL3 Quant Date : 5/31/2018 12:15 pm

Compound #5: Bromomethane



Original Peak Response = 44332



Manual Peak Response = 46261 M1

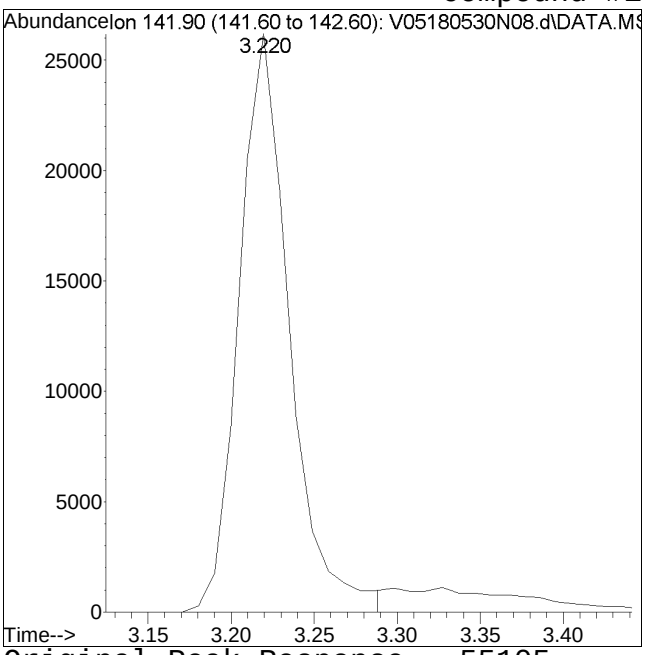
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

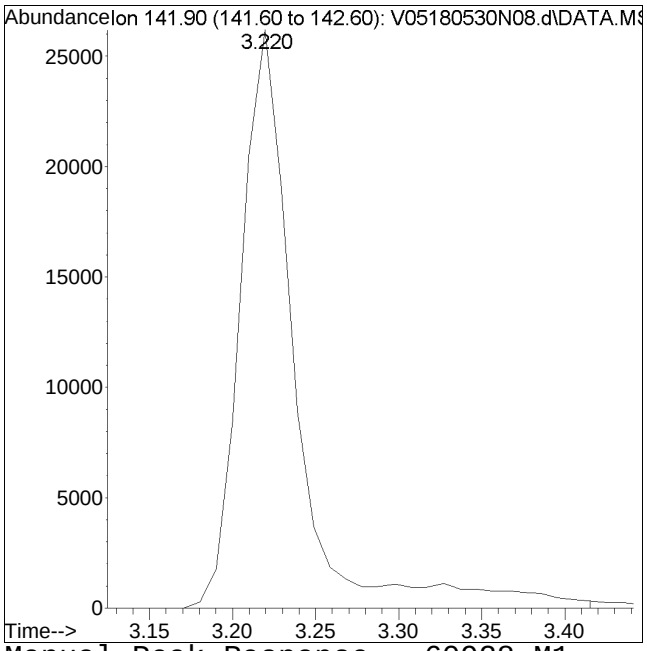
Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N08.d
Date Inj'd : 5/31/2018 12:15 am
Sample : I8260STDL3

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 12:15 pm

Compound #13: Iodomethane



Original Peak Response = 55105



Manual Peak Response = 60928 M1

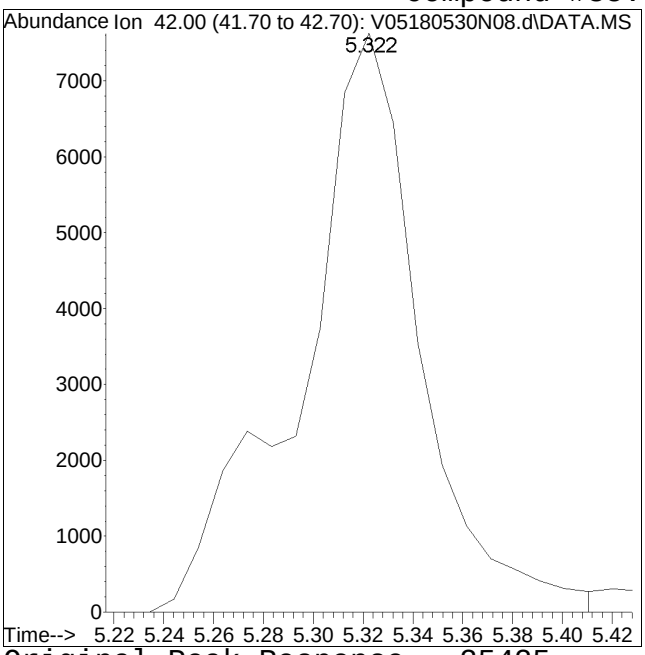
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

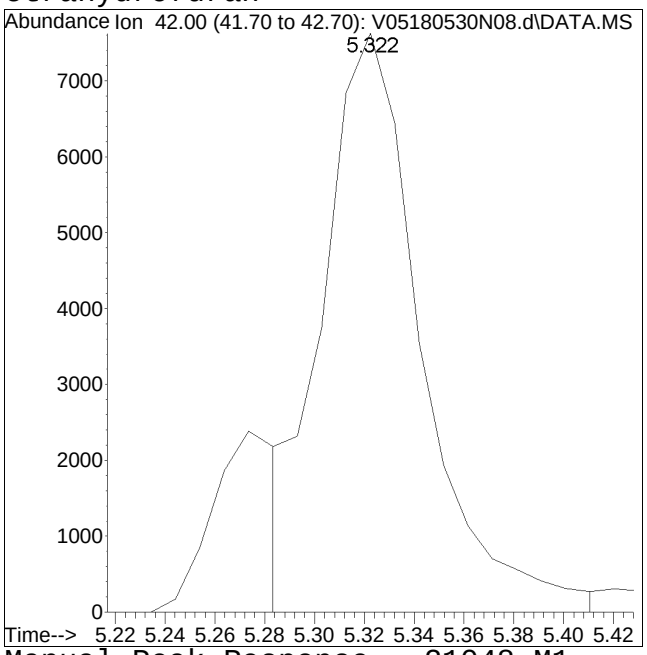
Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N08.d
Date Inj'd : 5/31/2018 12:15 am
Sample : I8260STDL3

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 12:15 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 25425



Manual Peak Response = 21048 M1

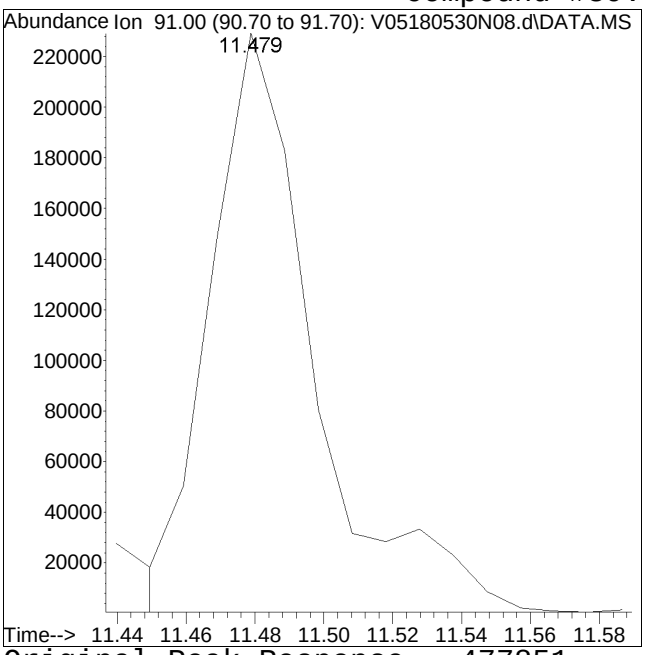
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

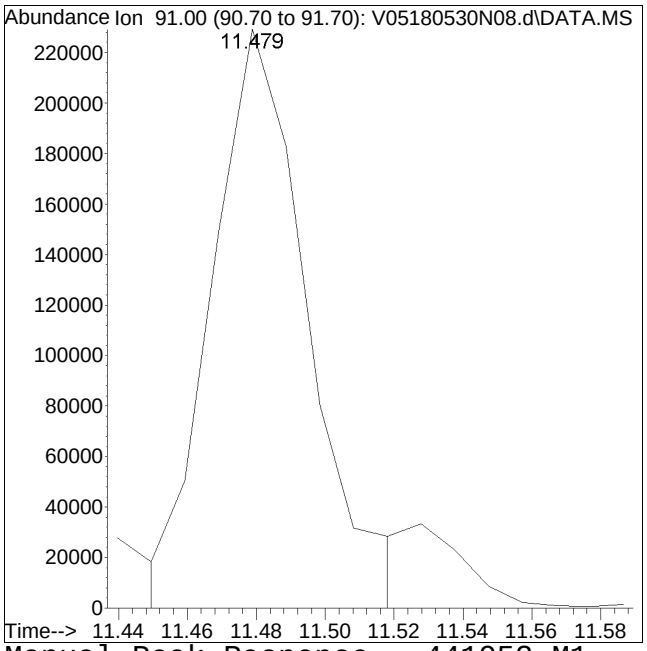
Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N08.d
Date Inj'd : 5/31/2018 12:15 am
Sample : I8260STDL3

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 12:15 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 477851



Manual Peak Response = 441952 M1

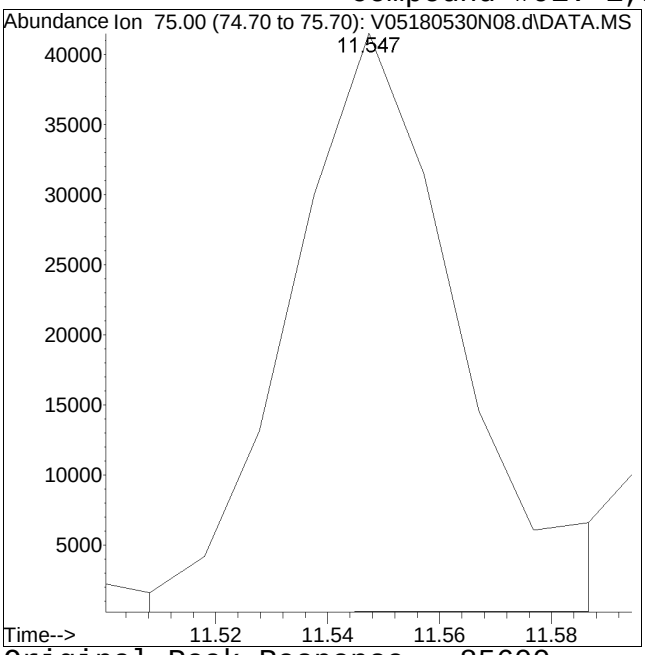
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

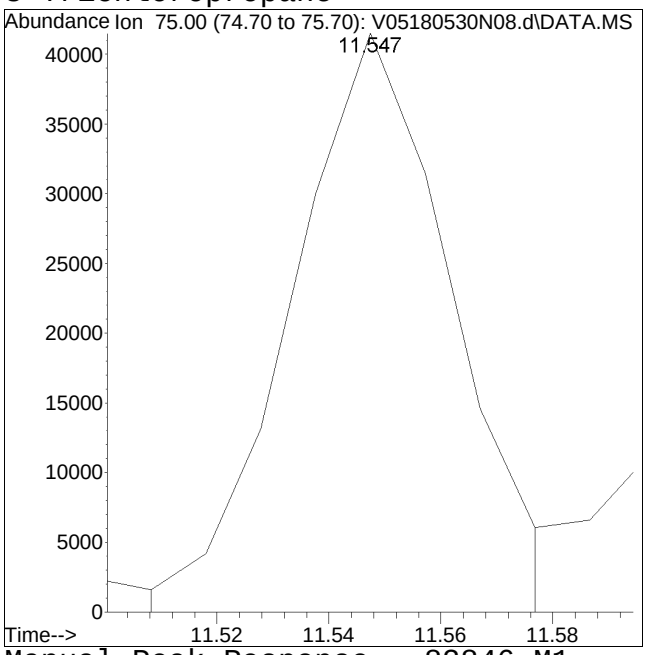
Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N08.d
Date Inj'd : 5/31/2018 12:15 am
Sample : I8260STDL3

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 12:15 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 85600



Manual Peak Response = 82846 M1

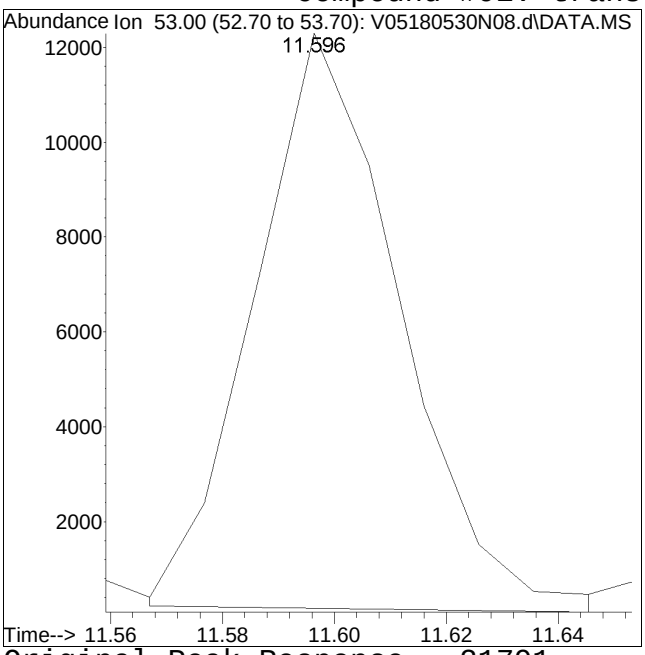
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

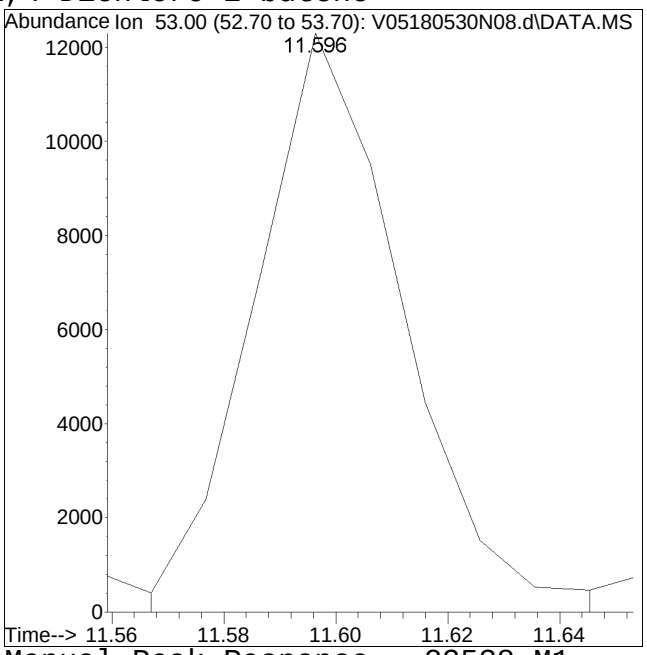
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N08.d
Date Inj'd : 5/31/2018 12:15 am
Sample : I8260STDL3

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 12:15 pm

Compound #92: trans-1,4-Dichloro-2-butene





Original Peak Response = 21791 Manual Peak Response = 22538 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N09.d
Acq On : 31 May 2018 12:40 am
Operator : VOA105:PD
Sample : I8260STDL4
Misc : WG1121113,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 11:45:25 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:43:38 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.154	96	701271	10.000 ug/L	0.00
Standard Area 1 = 676493			Recovery = 103.66%		
59) Chlorobenzene-d5	9.686	117	536412	10.000 ug/L	0.00
Standard Area 1 = 513181			Recovery = 104.53%		
79) 1,4-Dichlorobenzene-d4	12.360	152	282110	10.000 ug/L	0.00
Standard Area 1 = 264631			Recovery = 106.61%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.342	113	191051	10.111 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.11%		
43) 1,2-Dichloroethane-d4	5.880	65	219742	9.669 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.69%		
60) Toluene-d8	7.836	98	698825	10.013 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.13%		
83) 4-Bromofluorobenzene	11.165	95	262526	9.869 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.69%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.713	85	336963	32.382 ug/L	99
3) Chloromethane	1.909	50	321458	28.519 ug/L	98
4) Vinyl chloride	1.997	62	361251	32.234 ug/L	97
5) Bromomethane	2.320	94	131484	28.525 ug/L	95
6) Chloroethane	2.437	64	175568	28.821 ug/L	96
7) Trichlorofluoromethane	2.574	101	571245	31.809 ug/L	98
8) Ethyl ether	2.877	74	126666	29.834 ug/L	97
10) 1,1-Dichloroethene	3.073	96	343563	31.429 ug/L	94
11) Carbon disulfide	3.102	76	813203	34.725 ug/L	98
12) Freon-113	3.112	101	394858	32.275 ug/L #	73
13) Iodomethane	3.219	142	308292	78.186 ug/L	96
14) Acrolein	3.405	56	41901	40.420 ug/L	96
15) Methylene chloride	3.640	84	377790	28.264 ug/L	98
17) Acetone	3.689	43	66380	15.728 ug/L	95
18) trans-1,2-Dichloroethene	3.787	96	392601	31.020 ug/L	95
19) Methyl acetate	3.806	43	172432	29.029 ug/L	95
20) Methyl tert-butyl ether	3.885	73	792954	35.131 ug/L	97
21) tert-Butyl alcohol	3.982	59	66158	190.853 ug/L	92
22) Diisopropyl ether	4.237	45	1330395	34.145 ug/L	97
23) 1,1-Dichloroethane	4.383	63	756658	30.217 ug/L	99
24) Halothane	4.432	117	315639	32.647 ug/L	99

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N09.d
Acq On : 31 May 2018 12:40 am
Operator : VOA105:PD
Sample : I8260STDL4
Misc : WG1121113,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 11:45:25 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:43:38 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.442	53	78354	32.088	ug/L		97
26) Ethyl tert-butyl ether	4.589	59	1029975	36.406	ug/L		94
27) Vinyl acetate	4.608	43	817951	37.345	ug/L		99
28) cis-1,2-Dichloroethene	4.902	96	438444	31.695	ug/L		96
29) 2,2-Dichloropropane	5.000	77	580881	35.235	ug/L		98
30) Bromochloromethane	5.097	128	202639	31.775	ug/L		89
31) Cyclohexane	5.088	56	644467	36.252	ug/L		95
32) Chloroform	5.166	83	763103	30.433	ug/L		99
33) Ethyl acetate	5.273	43	246548	33.330	ug/L		98
34) Carbon tetrachloride	5.293	117	644273	38.052	ug/L		99
35) Tetrahydrofuran	5.322	42	70128M1	28.912	ug/L		
37) 1,1,1-Trichloroethane	5.361	97	723571	32.744	ug/L		98
39) 2-Butanone	5.469	43	99036	30.793	ug/L		95
40) 1,1-Dichloropropene	5.479	75	593812	33.731	ug/L		97
41) Benzene	5.733	78	1628726	31.887	ug/L		99
42) tert-Amyl methyl ether	5.831	73	827691	38.026	ug/L		96
44) 1,2-Dichloroethane	5.948	62	575005	29.091	ug/L		99
47) Methyl cyclohexane	6.300	83	517181	35.315	ug/L		95
48) Trichloroethene	6.330	95	439703	29.279	ug/L		93
50) Dibromomethane	6.780	93	223019	32.314	ug/L		94
51) 1,2-Dichloropropane	6.878	63	408887	32.279	ug/L		99
53) 2-Chloroethyl vinyl ether	7.562	63	173274	43.460	ug/L	#	79
54) Bromodichloromethane	6.946	83	562346	35.490	ug/L		99
57) 1,4-Dioxane	7.161	88	40554	755.584	ug/L		94
58) cis-1,3-Dichloropropene	7.640	75	644073	40.431	ug/L		98
61) Toluene	7.895	92	1042366	30.896	ug/L		97
62) 4-Methyl-2-pentanone	8.335	58	73115	46.345	ug/L		97
63) Tetrachloroethene	8.345	166	453385	32.044	ug/L		95
65) trans-1,3-Dichloropropene	8.394	75	555749	41.428	ug/L		99
67) Ethyl methacrylate	8.560	69	387887	47.125	ug/L		94
68) 1,1,2-Trichloroethane	8.579	83	277286	33.927	ug/L		96
69) Chlorodibromomethane	8.785	129	373165	40.311	ug/L		99
70) 1,3-Dichloropropane	8.902	76	532184	32.736	ug/L		98
71) 1,2-Dibromoethane	9.069	107	296581	34.988	ug/L		98
72) 2-Hexanone	9.343	43	141261	44.635	ug/L		93
73) Chlorobenzene	9.716	112	1153548	29.946	ug/L		92
74) Ethylbenzene	9.745	91	2013662	31.837	ug/L		96
75) 1,1,1,2-Tetrachloroethane	9.794	131	427378	35.458	ug/L		98
76) p/m Xylene	9.931	106	1578215	67.666	ug/L		94
77) o Xylene	10.460	106	1493281	69.423	ug/L		94

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N09.d
Acq On : 31 May 2018 12:40 am
Operator : VOA105:PD
Sample : I8260STDL4
Misc : WG1121113,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 11:45:25 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:43:38 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.529	104	2427074	71.597	ug/L	98
80) Bromoform	10.568	173	195632	42.916	ug/L	98
82) Isopropylbenzene	10.832	105	1890300	34.192	ug/L	99
84) Bromobenzene	11.273	156	498916	30.356	ug/L	98
85) n-Propylbenzene	11.302	91	2110304	32.303	ug/L	97
86) 1,4-Dichlorobutane	11.342	55	487644	32.061	ug/L	98
87) 1,1,2,2-Tetrachloroethane	11.410	83	300415	31.632	ug/L	99
88) 4-Ethyltoluene	11.430	105	1771799	33.894	ug/L	98
89) 2-Chlorotoluene	11.479	91	1371288M1	30.645	ug/L	
90) 1,3,5-Trimethylbenzene	11.528	105	1543238	33.168	ug/L	99
91) 1,2,3-Trichloropropane	11.547	75	261600M1	29.319	ug/L	
92) trans-1,4-Dichloro-2-b...	11.596	53	82420M1	41.034	ug/L	
93) 4-Chlorotoluene	11.665	91	1428816	31.919	ug/L	95
94) tert-Butylbenzene	11.861	119	1185566	34.632	ug/L	96
97) 1,2,4-Trimethylbenzene	11.949	105	1583434	34.854	ug/L	98
98) sec-Butylbenzene	12.057	105	1540319	34.422	ug/L	96
99) p-Isopropyltoluene	12.204	119	1413346	36.615	ug/L	97
100) 1,3-Dichlorobenzene	12.282	146	898341	31.461	ug/L	98
101) 1,4-Dichlorobenzene	12.370	146	919349	30.094	ug/L	98
102) p-Diethylbenzene	12.576	119	785698	36.232	ug/L	96
103) n-Butylbenzene	12.635	91	1143807	33.489	ug/L	97
104) 1,2-Dichlorobenzene	12.801	146	798128	32.127	ug/L	98
105) 1,2,4,5-Tetramethylben...	13.360	119	1242054	41.729	ug/L	96
106) 1,2-Dibromo-3-chloropr...	13.575	155	34293	43.290	ug/L	95
107) 1,3,5-Trichlorobenzene	13.595	180	475422	31.917	ug/L	96
108) Hexachlorobutadiene	14.163	225	157929	30.120	ug/L	99
109) 1,2,4-Trichlorobenzene	14.192	180	376258	34.471	ug/L	98
110) Naphthalene	14.486	128	645049	44.175	ug/L	100
111) 1,2,3-Trichlorobenzene	14.653	180	251652	34.354	ug/L	98

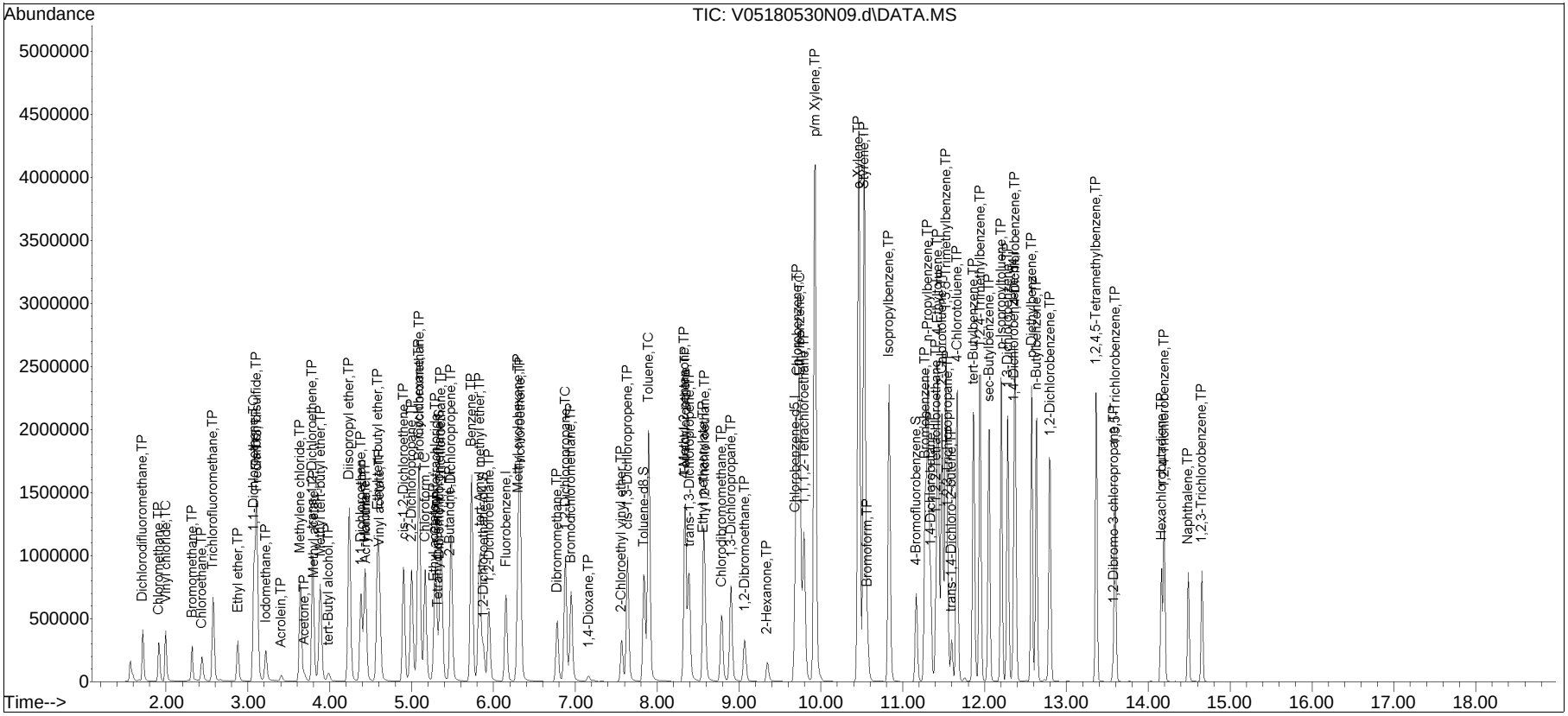
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N09.d
Acq On : 31 May 2018 12:40 am
Operator : VOA105:PD
Sample : I8260STDL4
Misc : WG1121113,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 11:45:25 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:43:38 2018
Response via : Initial Calibration

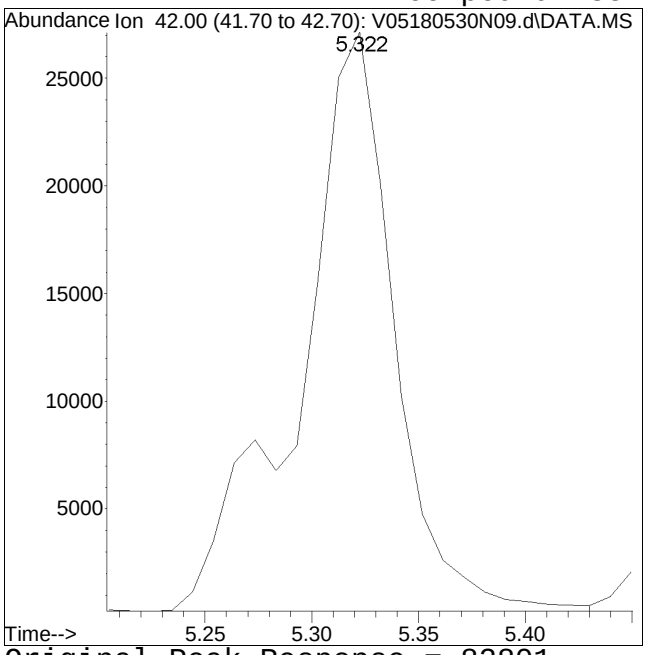
Sub List : 8260-Curve - Megamix plus Diox80530N\V05180530N08.d•

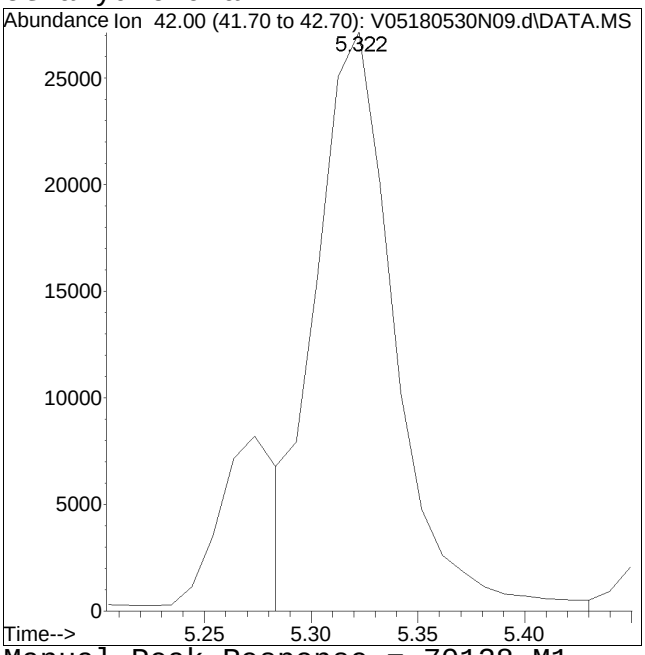


Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1QMethod : V105_180530N_8260.m
Data File : V05180530N09.d Operator : VOA105:PD
Date Inj'd : 5/31/2018 12:40 am Instrument : VOA 105
Sample : I8260STDL4 Quant Date : 5/31/2018 11:43 am

Compound #35: Tetrahydrofuran





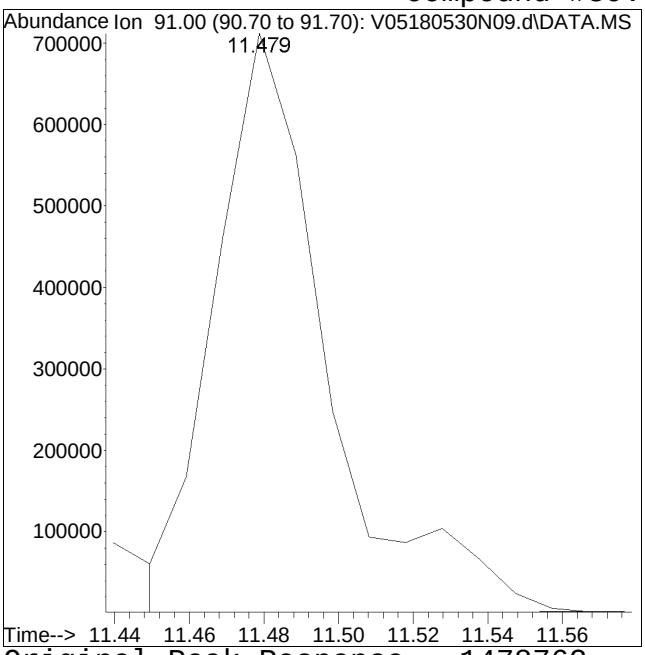
Original Peak Response = 82801 Manual Peak Response = 70128 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

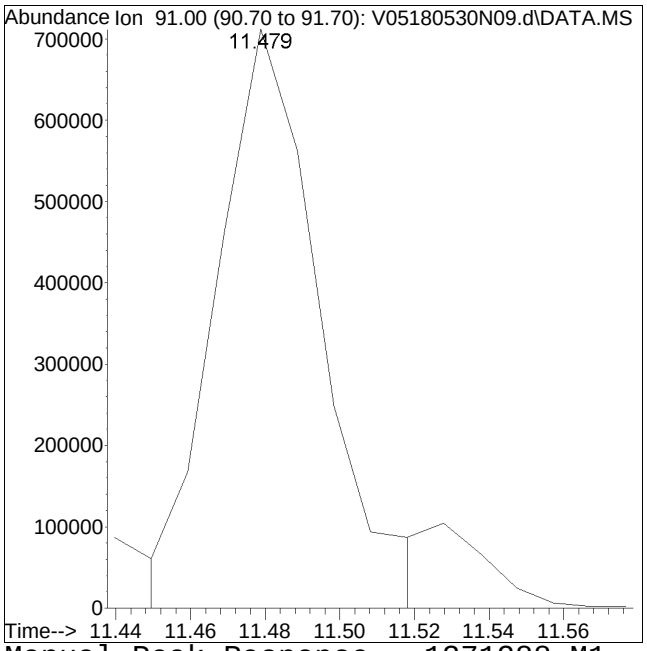
Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N09.d
Date Inj'd : 5/31/2018 12:40 am
Sample : I8260STDL4

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 11:43 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 1478762



Manual Peak Response = 1371288 M1

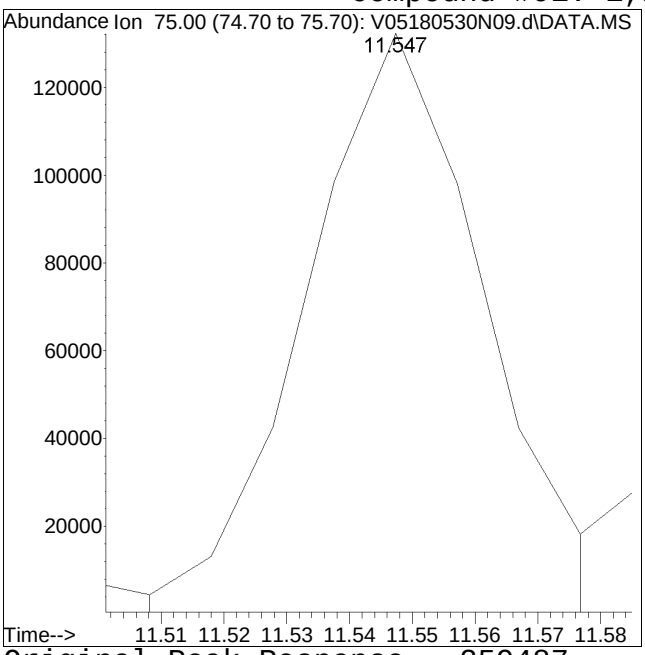
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

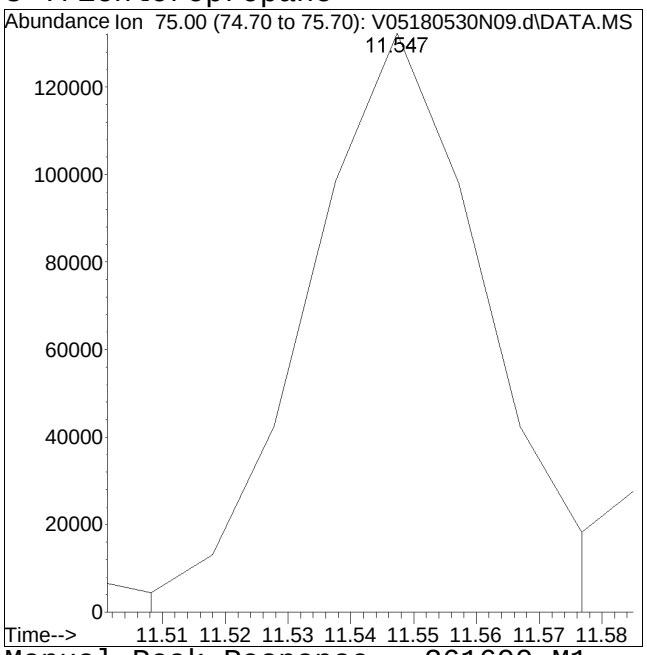
Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N09.d
Date Inj'd : 5/31/2018 12:40 am
Sample : I8260STDL4

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 11:43 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 259487



Manual Peak Response = 261600 M1

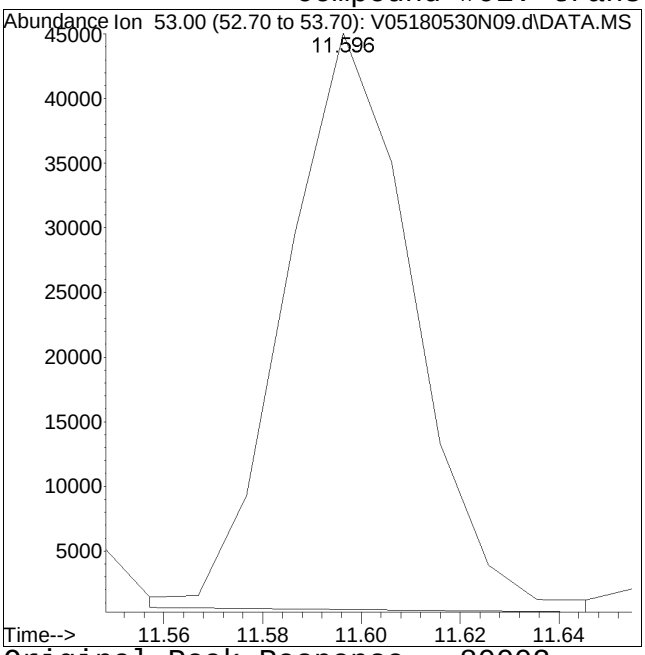
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

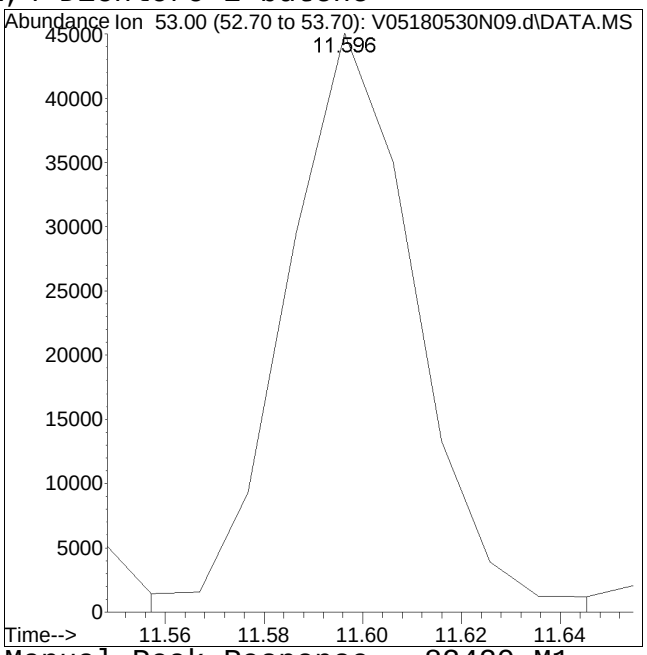
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N09.d
Date Inj'd : 5/31/2018 12:40 am
Sample : I8260STDL4

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 11:43 am

Compound #92: trans-1,4-Dichloro-2-butene





Original Peak Response = 80002 Manual Peak Response = 82420 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N10.d
Acq On : 31 May 2018 1:06 am
Operator : VOA105:PD
Sample : I8260STDL6
Misc : WG1121113,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 11:46:30 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:43:38 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.154	96	733591	10.000 ug/L	0.00
Standard Area 1 = 676493			Recovery = 108.44%		
59) Chlorobenzene-d5	9.686	117	564569	10.000 ug/L	0.00
Standard Area 1 = 513181			Recovery = 110.01%		
79) 1,4-Dichlorobenzene-d4	12.360	152	293232	10.000 ug/L	0.00
Standard Area 1 = 264631			Recovery = 110.81%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.342	113	199032	10.070 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.70%		
43) 1,2-Dichloroethane-d4	5.880	65	230677	9.703 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.03%		
60) Toluene-d8	7.836	98	730355	9.943 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.43%		
83) 4-Bromofluorobenzene	11.165	95	277407	10.033 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.33%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.713	85	858607	78.876 ug/L	99
3) Chloromethane	1.909	50	840761	71.303 ug/L	98
4) Vinyl chloride	1.997	62	948072	80.869 ug/L	96
5) Bromomethane	2.320	94	428006	88.764 ug/L	96
6) Chloroethane	2.437	64	455811	71.528 ug/L	97
7) Trichlorofluoromethane	2.574	101	1462329	77.841 ug/L	98
8) Ethyl ether	2.877	74	347244	78.183 ug/L	95
10) 1,1-Dichloroethene	3.073	96	912055	79.758 ug/L	93
11) Carbon disulfide	3.102	76	2235755	91.264 ug/L	99
12) Freon-113	3.112	101	1015303	79.334 ug/L	79
13) Iodomethane	3.220	142	1039230	251.948 ug/L	96
14) Acrolein	3.405	56	116504	107.435 ug/L	98
15) Methylene chloride	3.640	84	1017357	72.759 ug/L	98
17) Acetone	3.689	43	177637	40.234 ug/L	95
18) trans-1,2-Dichloroethene	3.787	96	1067328	80.616 ug/L	95
19) Methyl acetate	3.797	43	478555	77.017 ug/L	95
20) Methyl tert-butyl ether	3.885	73	2228744	94.393 ug/L	95
21) tert-Butyl alcohol	3.982	59	191731	528.738 ug/L	93
22) Diisopropyl ether	4.237	45	3697390	90.715 ug/L	96
23) 1,1-Dichloroethane	4.383	63	2048154	78.188 ug/L	99
24) Halothane	4.432	117	863810	85.408 ug/L	99

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N10.d
Acq On : 31 May 2018 1:06 am
Operator : VOA105:PD
Sample : I8260STDL6
Misc : WG1121113,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 11:46:30 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:43:38 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.442	53	217634	85.201	ug/L		95
26) Ethyl tert-butyl ether	4.589	59	2917265	98.571	ug/L		93
27) Vinyl acetate	4.608	43	2293878	100.117	ug/L		99
28) cis-1,2-Dichloroethene	4.902	96	1199357	82.882	ug/L		96
29) 2,2-Dichloropropane	5.000	77	1648323	95.579	ug/L		94
30) Bromochloromethane	5.097	128	556581	83.431	ug/L		88
31) Cyclohexane	5.088	56	1679290	90.299	ug/L		94
32) Chloroform	5.166	83	2068436	78.856	ug/L		99
33) Ethyl acetate	5.273	43	689402	89.093	ug/L		98
34) Carbon tetrachloride	5.293	117	1759566	99.345	ug/L		99
35) Tetrahydrofuran	5.322	42	187785M1	74.007	ug/L		
37) 1,1,1-Trichloroethane	5.362	97	1945766	84.174	ug/L		97
39) 2-Butanone	5.459	43	273796	81.381	ug/L		93
40) 1,1-Dichloropropene	5.479	75	1586576	86.153	ug/L		97
41) Benzene	5.733	78	4437517	83.050	ug/L		99
42) tert-Amyl methyl ether	5.831	73	2396834	105.265	ug/L		92
44) 1,2-Dichloroethane	5.948	62	1526655	73.835	ug/L		98
47) Methyl cyclohexane	6.310	83	1373589	89.660	ug/L		93
48) Trichloroethene	6.330	95	1187823	75.611	ug/L		93
50) Dibromomethane	6.780	93	608970	84.347	ug/L		93
51) 1,2-Dichloropropane	6.878	63	1127099	85.056	ug/L		98
53) 2-Chloroethyl vinyl ether	7.562	63	477414	114.468	ug/L	#	80
54) Bromodichloromethane	6.946	83	1574957	95.018	ug/L		99
57) 1,4-Dioxane	7.161	88	54225	965.785	ug/L		94
58) cis-1,3-Dichloropropene	7.640	75	1826789	109.622	ug/L		98
61) Toluene	7.895	92	2842215	80.042	ug/L		98
62) 4-Methyl-2-pentanone	8.335	58	212709	128.103	ug/L		95
63) Tetrachloroethene	8.345	166	1223301	82.147	ug/L		94
65) trans-1,3-Dichloropropene	8.384	75	1589751	112.597	ug/L		98
67) Ethyl methacrylate	8.560	69	1108544	127.961	ug/L		92
68) 1,1,2-Trichloroethane	8.579	83	744020	86.494	ug/L		96
69) Chlorodibromomethane	8.785	129	1081895	111.043	ug/L		100
70) 1,3-Dichloropropane	8.902	76	1439129	84.110	ug/L		97
71) 1,2-Dibromoethane	9.069	107	823840	92.343	ug/L		98
72) 2-Hexanone	9.343	43	419225	125.858	ug/L		93
73) Chlorobenzene	9.716	112	3173513	78.274	ug/L		91
74) Ethylbenzene	9.745	91	5511304	82.792	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.794	131	1204267	94.930	ug/L		98
76) p/m Xylene	9.931	106	4311728	175.646	ug/L		93
77) o Xylene	10.460	106	4039641	178.438	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N10.d
Acq On : 31 May 2018 1:06 am
Operator : VOA105:PD
Sample : I8260STDL6
Misc : WG1121113,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 11:46:30 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:43:38 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	10.529	104	6634672	185.957	ug/L	98
80)	Bromoform	10.568	173	590468	124.618	ug/L	98
82)	Isopropylbenzene	10.832	105	5154189	89.692	ug/L	99
84)	Bromobenzene	11.273	156	1375459	80.514	ug/L	99
85)	n-Propylbenzene	11.312	91	5700477	83.948	ug/L	97
86)	1,4-Dichlorobutane	11.342	55	1318052	83.372	ug/L	99
87)	1,1,2,2-Tetrachloroethane	11.410	83	816430	82.704	ug/L	99
88)	4-Ethyltoluene	11.430	105	4886899	89.940	ug/L	99
89)	2-Chlorotoluene	11.479	91	3764381M1	80.933	ug/L	
90)	1,3,5-Trimethylbenzene	11.528	105	4242243	87.718	ug/L	99
91)	1,2,3-Trichloropropane	11.547	75	698322M1	75.296	ug/L	
92)	trans-1,4-Dichloro-2-b...	11.596	53	238599M1	114.284	ug/L	
93)	4-Chlorotoluene	11.665	91	3919091	84.229	ug/L	95
94)	tert-Butylbenzene	11.871	119	3242603	91.129	ug/L	95
97)	1,2,4-Trimethylbenzene	11.949	105	4384430	92.848	ug/L	98
98)	sec-Butylbenzene	12.057	105	4174028	89.741	ug/L	96
99)	p-Isopropyltoluene	12.204	119	3853152	96.037	ug/L	97
100)	1,3-Dichlorobenzene	12.282	146	2445765	82.404	ug/L	98
101)	1,4-Dichlorobenzene	12.380	146	2511245	79.084	ug/L	98
102)	p-Diethylbenzene	12.576	119	2187480	97.048	ug/L	96
103)	n-Butylbenzene	12.635	91	3120490	87.898	ug/L	98
104)	1,2-Dichlorobenzene	12.801	146	2169704	84.023	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.360	119	3483531	112.598	ug/L	96
106)	1,2-Dibromo-3-chloropr...	13.575	155	105705	128.377	ug/L	93
107)	1,3,5-Trichlorobenzene	13.595	180	1319495	85.223	ug/L	96
108)	Hexachlorobutadiene	14.163	225	432576	79.370	ug/L	99
109)	1,2,4-Trichlorobenzene	14.192	180	1051660	92.695	ug/L	98
110)	Naphthalene	14.486	128	1813365	119.474	ug/L	100
111)	1,2,3-Trichlorobenzene	14.653	180	684862	89.946	ug/L	99

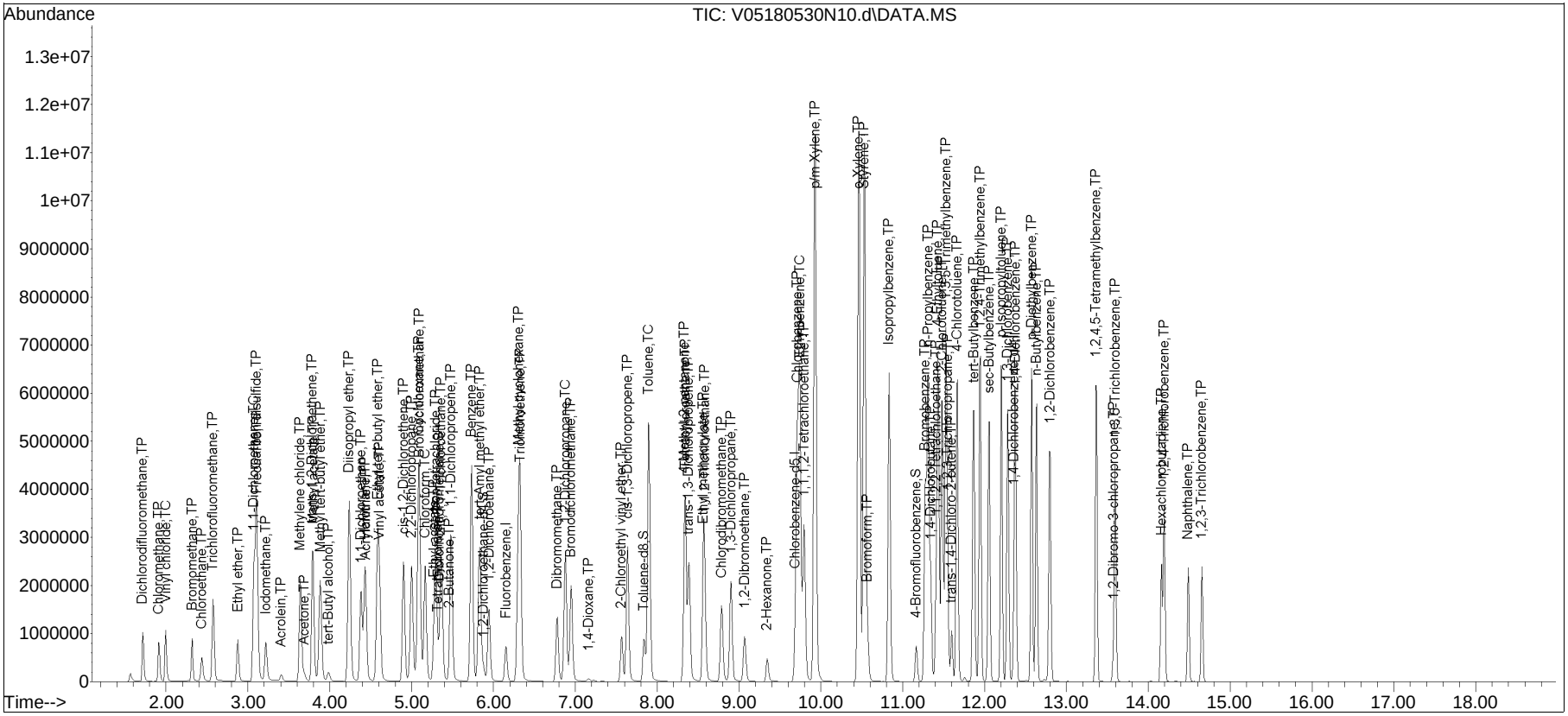
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N10.d
Acq On : 31 May 2018 1:06 am
Operator : VOA105:PD
Sample : I8260STDL6
Misc : WG1121113,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 11:46:30 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:43:38 2018
Response via : Initial Calibration

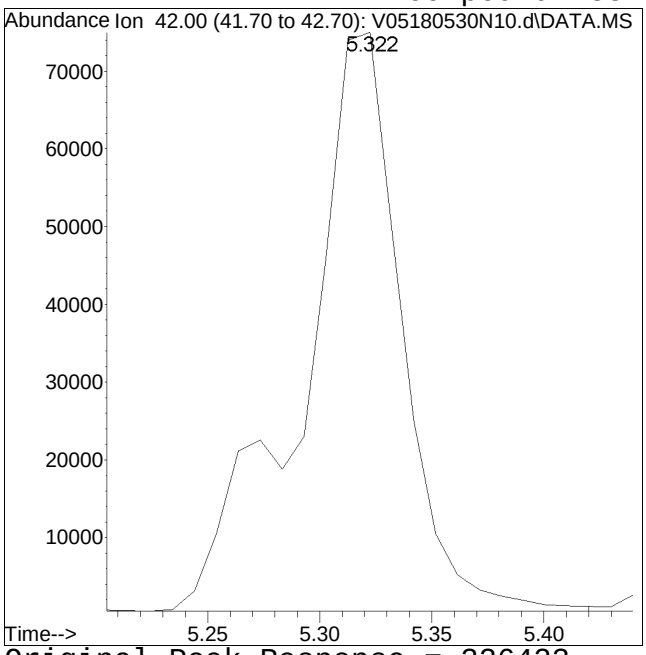
Sub List : 8260-Curve - Megamix plus Diox80530N\V05180530N08.d•

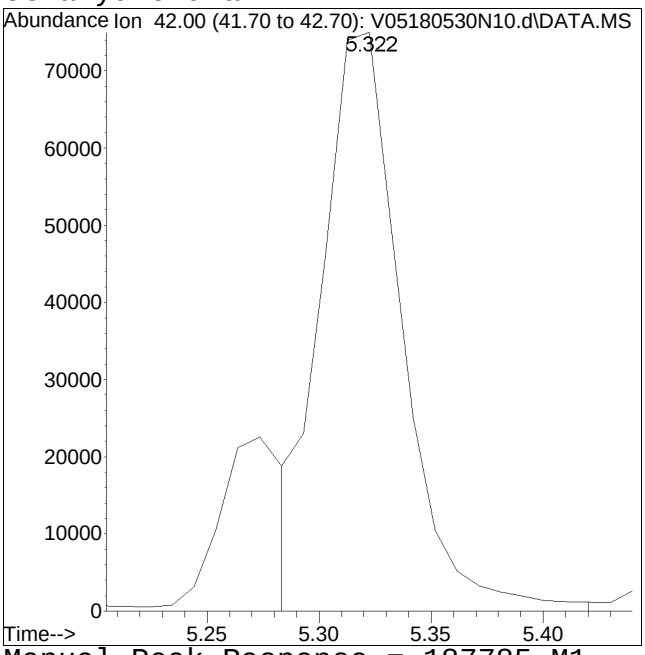


Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1QMethod : V105_180530N_8260.m
Data File : V05180530N10.d Operator : VOA105:PD
Date Inj'd : 5/31/2018 1:06 am Instrument : VOA 105
Sample : I8260STDL6 Quant Date : 5/31/2018 11:44 am

Compound #35: Tetrahydrofuran





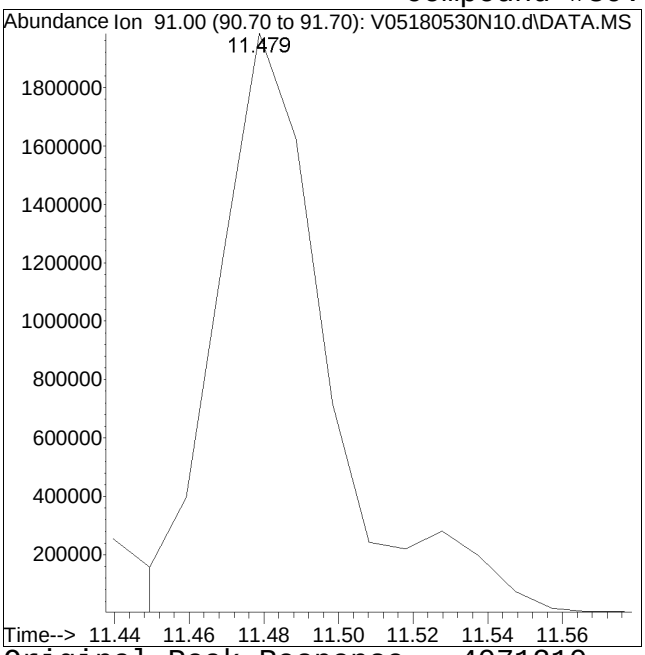
Original Peak Response = 226423 Manual Peak Response = 187785 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

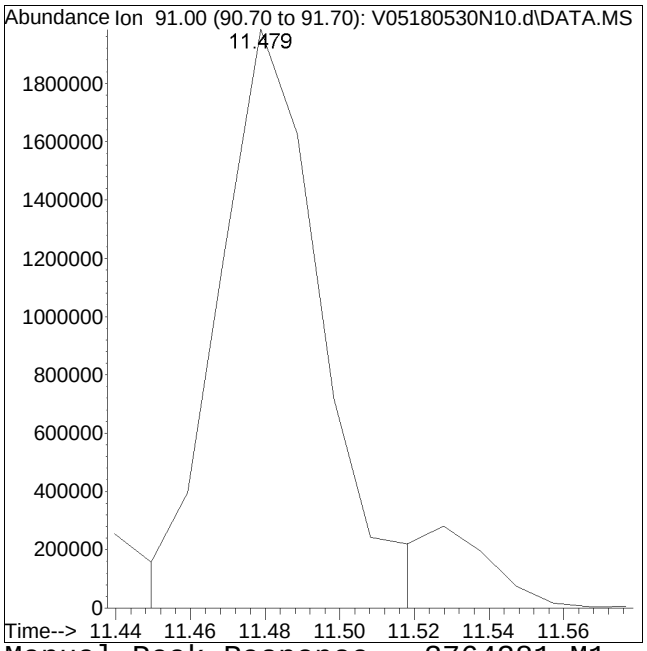
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N10.d
Date Inj'd : 5/31/2018 1:06 am
Sample : I8260STDL6

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 11:44 am

Compound #89: 2-Chlorotoluene





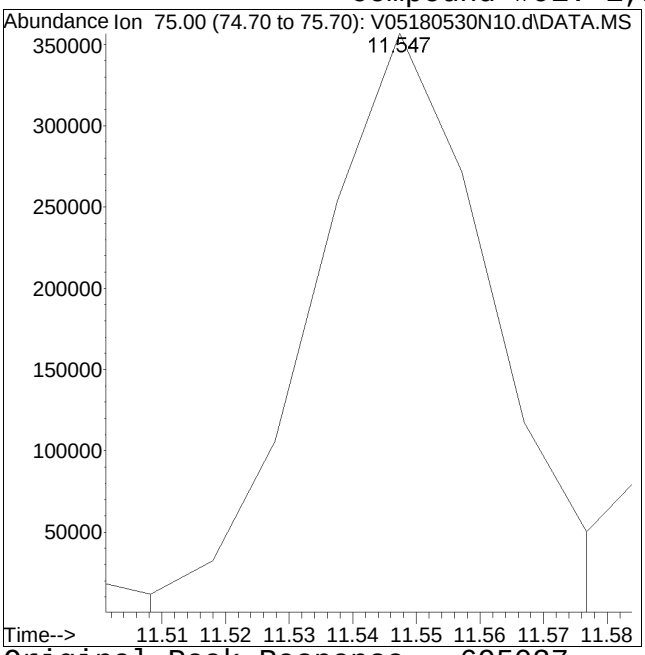
Original Peak Response = 4071210 Manual Peak Response = 3764381 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

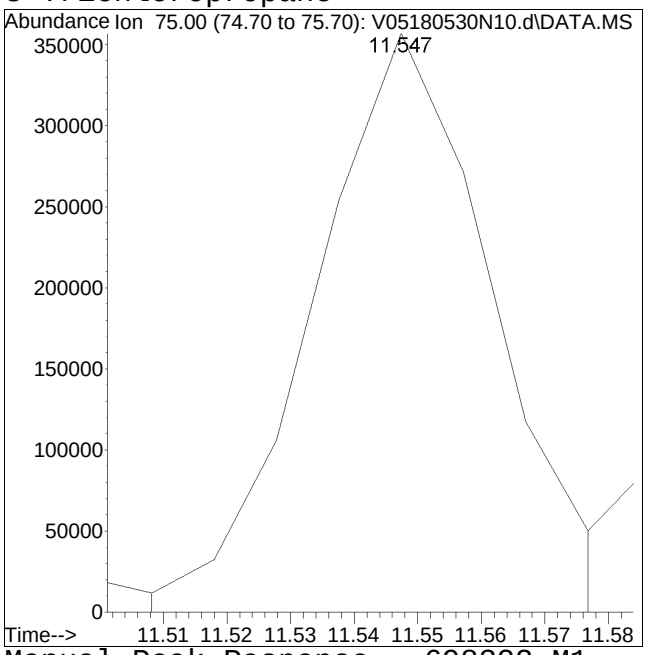
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1QMethod : V105_180530N_8260.m
Data File : V05180530N10.d Operator : VOA105:PD
Date Inj'd : 5/31/2018 1:06 am Instrument : VOA 105
Sample : I8260STDL6 Quant Date : 5/31/2018 11:44 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 695037



Manual Peak Response = 698322 M1

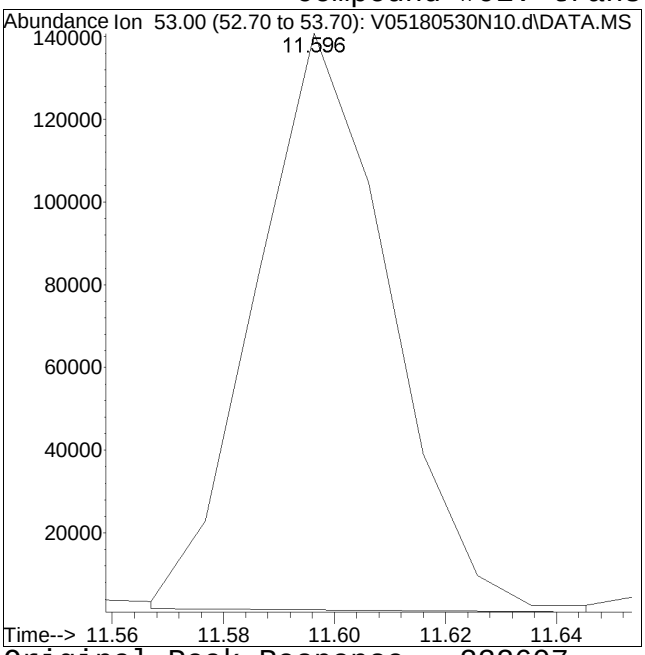
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

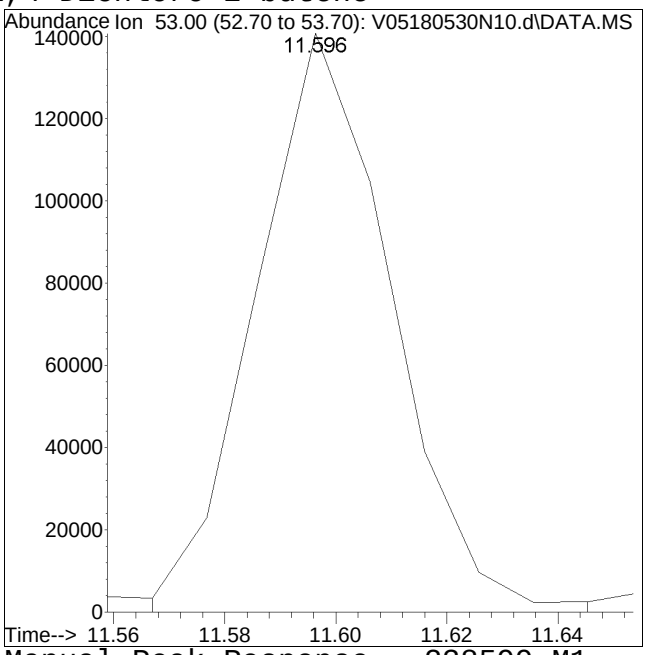
Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N10.d
Date Inj'd : 5/31/2018 1:06 am
Sample : I8260STDL6

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 11:44 am

Compound #92: trans-1,4-Dichloro-2-butene



Original Peak Response = 232607



Manual Peak Response = 238599 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N11.d
Acq On : 31 May 2018 1:31 am
Operator : VOA105:PD
Sample : I8260STDL8
Misc : WG1121113,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 11:47:35 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:43:38 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.154	96	766859	10.000	ug/L	0.00
Standard Area 1 = 676493			Recovery = 113.36%			
59) Chlorobenzene-d5	9.686	117	584138	10.000	ug/L	0.00
Standard Area 1 = 513181			Recovery = 113.83%			
79) 1,4-Dichlorobenzene-d4	12.360	152	300344	10.000	ug/L	0.00
Standard Area 1 = 264631			Recovery = 113.50%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.342	113	202863	9.818	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.18%			
43) 1,2-Dichloroethane-d4	5.880	65	242338	9.751	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.51%			
60) Toluene-d8	7.836	98	755500	9.941	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.41%			
83) 4-Bromofluorobenzene	11.165	95	286324	10.111	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.11%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.713	85	1202924	105.713	ug/L	99
3) Chloromethane	1.909	50	1301432	105.583	ug/L	98
4) Vinyl chloride	1.997	62	1389783	113.403	ug/L	96
5) Bromomethane	2.319	94	674199	133.756	ug/L	95
6) Chloroethane	2.437	64	671642	100.825	ug/L	97
7) Trichlorofluoromethane	2.574	101	2059254	104.860	ug/L	98
8) Ethyl ether	2.877	74	525083	113.095	ug/L	96
10) 1,1-Dichloroethene	3.073	96	1346641	112.654	ug/L	92
11) Carbon disulfide	3.102	76	3440069	134.333	ug/L	99
12) Freon-113	3.102	101	1437452	107.447	ug/L	87
13) Iodomethane	3.219	142	1547167	358.818	ug/L	95
14) Acrolein	3.405	56	183382	161.771	ug/L	98
15) Methylene chloride	3.640	84	1531770	104.796	ug/L	98
17) Acetone	3.689	43	274714	59.522	ug/L	95
18) trans-1,2-Dichloroethene	3.787	96	1614430	116.649	ug/L	94
19) Methyl acetate	3.796	43	748830	115.285	ug/L	94
20) Methyl tert-butyl ether	3.884	73	3491098	141.442	ug/L	94
21) tert-Butyl alcohol	3.982	59	327632	864.317	ug/L	89
22) Diisopropyl ether	4.237	45	5650199	132.613	ug/L	95
23) 1,1-Dichloroethane	4.383	63	3078319	112.417	ug/L	99
24) Halothane	4.432	117	1297168	122.692	ug/L	99

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N11.d
Acq On : 31 May 2018 1:31 am
Operator : VOA105:PD
Sample : I8260STDL8
Misc : WG1121113,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 11:47:35 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:43:38 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.442	53	339271	127.058	ug/L		94
26) Ethyl tert-butyl ether	4.589	59	4494933	145.290	ug/L		94
27) Vinyl acetate	4.608	43	3576442	149.323	ug/L		99
28) cis-1,2-Dichloroethene	4.902	96	1812112	119.794	ug/L		96
29) 2,2-Dichloropropane	4.999	77	2445455	135.650	ug/L		93
30) Bromochloromethane	5.097	128	858297	123.076	ug/L		88
31) Cyclohexane	5.087	56	2390610	122.972	ug/L		94
32) Chloroform	5.166	83	3068336	111.901	ug/L		100
33) Ethyl acetate	5.273	43	1085832	134.237	ug/L		98
34) Carbon tetrachloride	5.293	117	2608893	140.907	ug/L		99
35) Tetrahydrofuran	5.312	42	288373M1	108.719	ug/L		
37) 1,1,1-Trichloroethane	5.361	97	2899988	120.011	ug/L		97
39) 2-Butanone	5.459	43	429481	122.117	ug/L		90
40) 1,1-Dichloropropene	5.479	75	2351832	122.168	ug/L		97
41) Benzene	5.733	78	6679488	119.586	ug/L		98
42) tert-Amyl methyl ether	5.831	73	3756762	157.833	ug/L		90
44) 1,2-Dichloroethane	5.948	62	2314352	107.075	ug/L		98
47) Methyl cyclohexane	6.310	83	1983220	123.838	ug/L		93
48) Trichloroethene	6.330	95	1777403	108.233	ug/L		92
50) Dibromomethane	6.780	93	938296	124.324	ug/L		93
51) 1,2-Dichloropropane	6.877	63	1696214	122.451	ug/L		98
53) 2-Chloroethyl vinyl ether	7.562	63	747758	171.510	ug/L	#	80
54) Bromodichloromethane	6.946	83	2413120	139.270	ug/L		99
57) 1,4-Dioxane	7.161	88	77261	1316.375	ug/L		93
58) cis-1,3-Dichloropropene	7.640	75	2804399	160.985	ug/L		97
61) Toluene	7.895	92	4289824	116.762	ug/L		98
62) 4-Methyl-2-pentanone	8.335	58	335878	195.505	ug/L		93
63) Tetrachloroethene	8.344	166	1845012	119.746	ug/L		93
65) trans-1,3-Dichloropropene	8.393	75	2475116	169.431	ug/L		98
67) Ethyl methacrylate	8.560	69	1732407	193.275	ug/L		91
68) 1,1,2-Trichloroethane	8.579	83	1141052	128.206	ug/L		96
69) Chlorodibromomethane	8.785	129	1689168	167.564	ug/L		99
70) 1,3-Dichloropropane	8.902	76	2221644	125.495	ug/L		98
71) 1,2-Dibromoethane	9.069	107	1276748	138.314	ug/L		99
72) 2-Hexanone	9.343	43	662656	192.275	ug/L		92
73) Chlorobenzene	9.715	112	4784386	114.053	ug/L		91
74) Ethylbenzene	9.745	91	8279993	120.216	ug/L		96
75) 1,1,1,2-Tetrachloroethane	9.794	131	1847419	140.750	ug/L		98
76) p/m Xylene	9.931	106	6375579	251.020	ug/L		94
77) o Xylene	10.470	106	5984068	255.472	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N11.d
Acq On : 31 May 2018 1:31 am
Operator : VOA105:PD
Sample : I8260STDL8
Misc : WG1121113,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 11:47:35 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:43:38 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	10.528	104	9828288	266.240	ug/L	99
80)	Bromoform	10.568	173	927783	191.171	ug/L	99
82)	Isopropylbenzene	10.832	105	7772880	132.059	ug/L	99
84)	Bromobenzene	11.273	156	2086245	119.229	ug/L	99
85)	n-Propylbenzene	11.312	91	8562261	123.106	ug/L	97
86)	1,4-Dichlorobutane	11.341	55	2006221	123.896	ug/L	99
87)	1,1,2,2-Tetrachloroethane	11.410	83	1256131	124.233	ug/L	99
88)	4-Ethyltoluene	11.430	105	7363261	132.307	ug/L	99
89)	2-Chlorotoluene	11.479	91	5614918M1	117.860	ug/L	
90)	1,3,5-Trimethylbenzene	11.528	105	6394571	129.091	ug/L	99
91)	1,2,3-Trichloropropane	11.547	75	1077525M1	113.432	ug/L	
92)	trans-1,4-Dichloro-2-b...	11.596	53	378473M1	176.988	ug/L	
93)	4-Chlorotoluene	11.665	91	5878551	123.350	ug/L	95
94)	tert-Butylbenzene	11.870	119	4874713	133.754	ug/L	95
97)	1,2,4-Trimethylbenzene	11.949	105	6552068	135.467	ug/L	98
98)	sec-Butylbenzene	12.057	105	6304183	132.329	ug/L	96
99)	p-Isopropyltoluene	12.204	119	5821500	141.661	ug/L	96
100)	1,3-Dichlorobenzene	12.282	146	3697839	121.640	ug/L	98
101)	1,4-Dichlorobenzene	12.380	146	3795698	116.703	ug/L	98
102)	p-Diethylbenzene	12.576	119	3324426	143.997	ug/L	96
103)	n-Butylbenzene	12.635	91	4708903	129.499	ug/L	97
104)	1,2-Dichlorobenzene	12.801	146	3296521	124.637	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.369	119	5280577	166.642	ug/L	96
106)	1,2-Dibromo-3-chloropr...	13.575	155	171584	203.451	ug/L	94
107)	1,3,5-Trichlorobenzene	13.595	180	2011355	126.833	ug/L	96
108)	Hexachlorobutadiene	14.163	225	683049	122.360	ug/L	99
109)	1,2,4-Trichlorobenzene	14.192	180	1649173	141.918	ug/L	98
110)	Naphthalene	14.486	128	2925130	188.160	ug/L	100
111)	1,2,3-Trichlorobenzene	14.653	180	1112256	142.618	ug/L	99

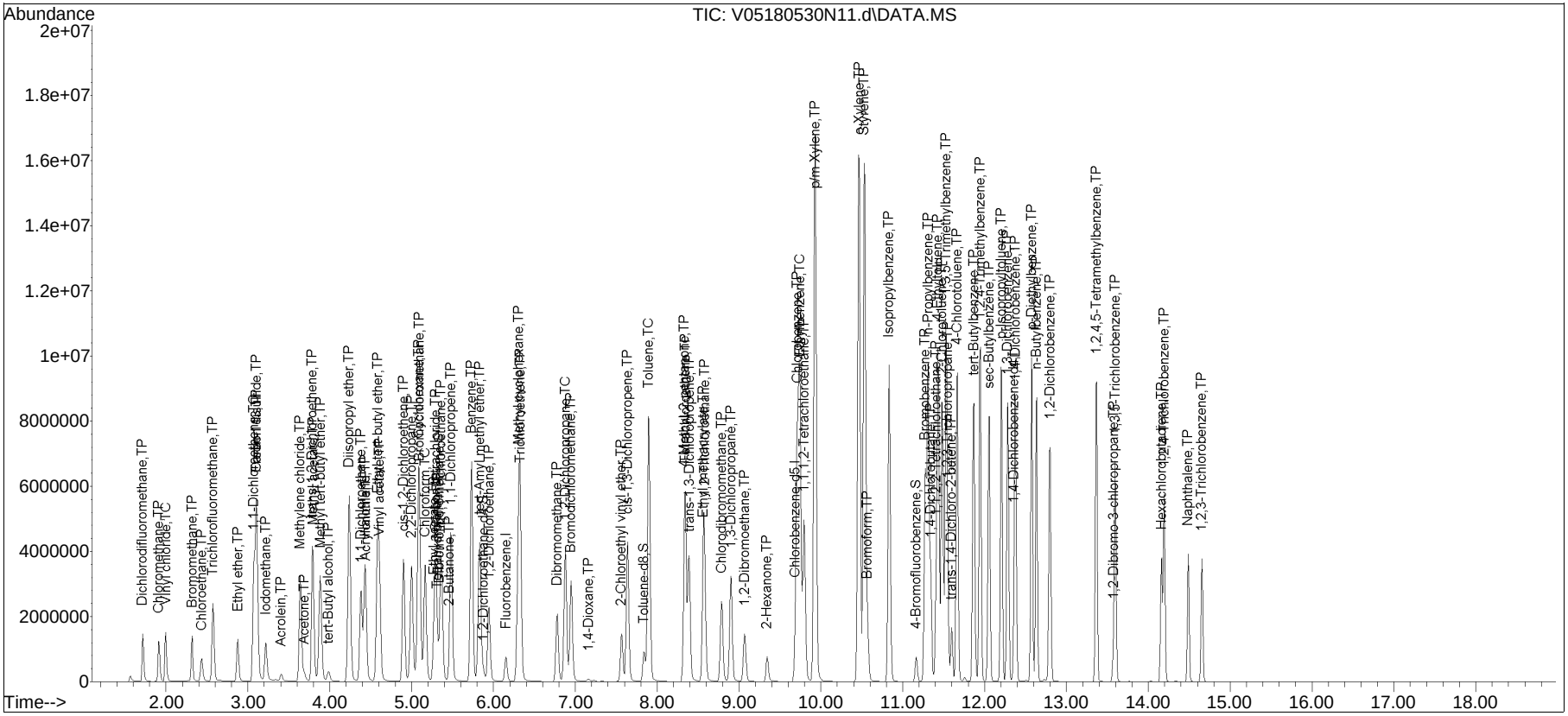
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N11.d
Acq On : 31 May 2018 1:31 am
Operator : VOA105:PD
Sample : I8260STDL8
Misc : WG1121113,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 11:47:35 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:43:38 2018
Response via : Initial Calibration

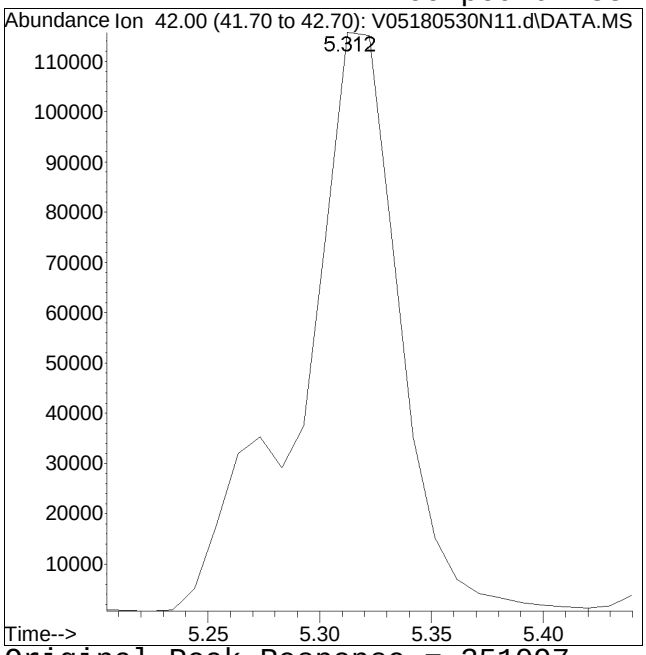
Sub List : 8260-Curve - Megamix plus Diox80530N\V05180530N08.d•

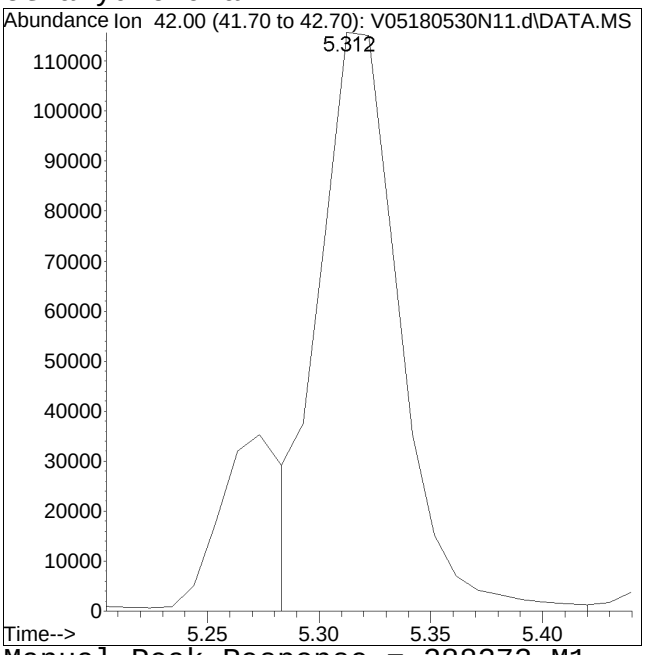


Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1QMethod : V105_180530N_8260.m
Data File : V05180530N11.d Operator : VOA105:PD
Date Inj'd : 5/31/2018 1:31 am Instrument : VOA 105
Sample : I8260STDL8 Quant Date : 5/31/2018 11:44 am

Compound #35: Tetrahydrofuran





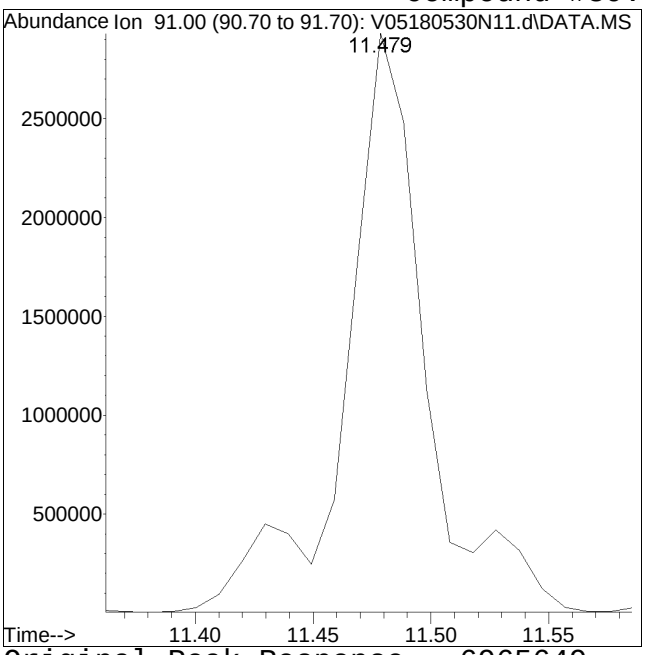
Original Peak Response = 351097 Manual Peak Response = 288373 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

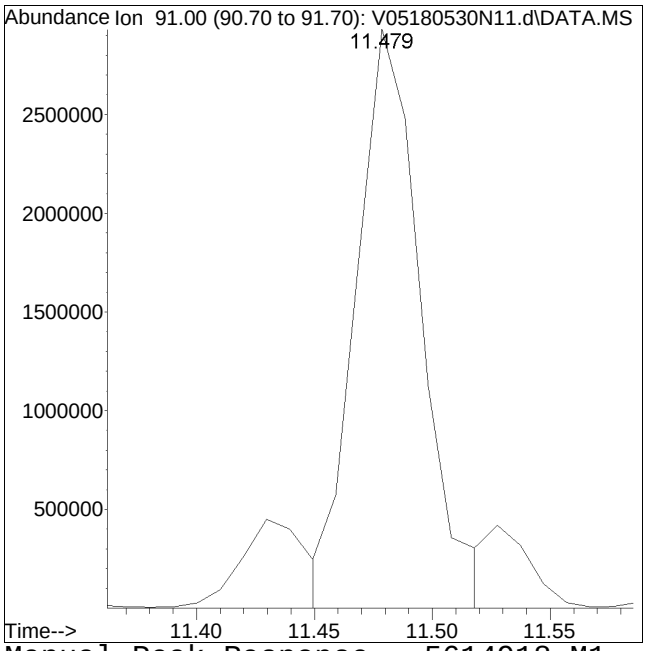
Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N11.d
Date Inj'd : 5/31/2018 1:31 am
Sample : I8260STDL8

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 11:44 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 6965649



Manual Peak Response = 5614918 M1

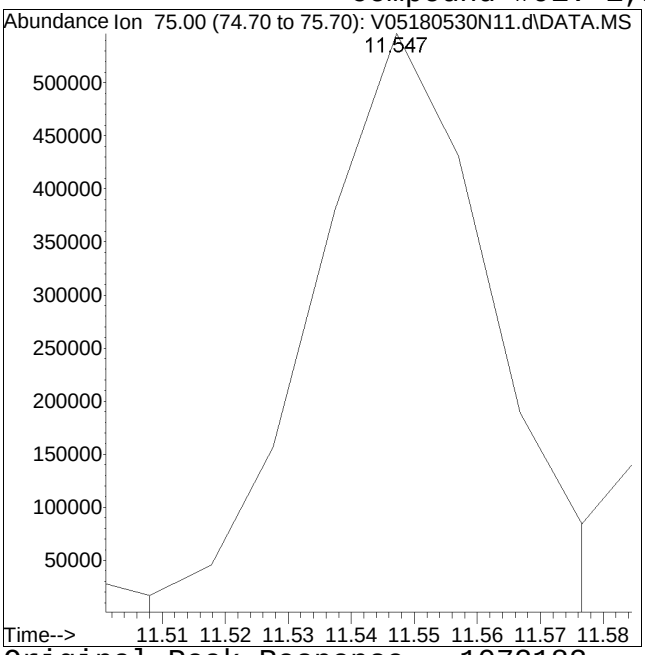
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

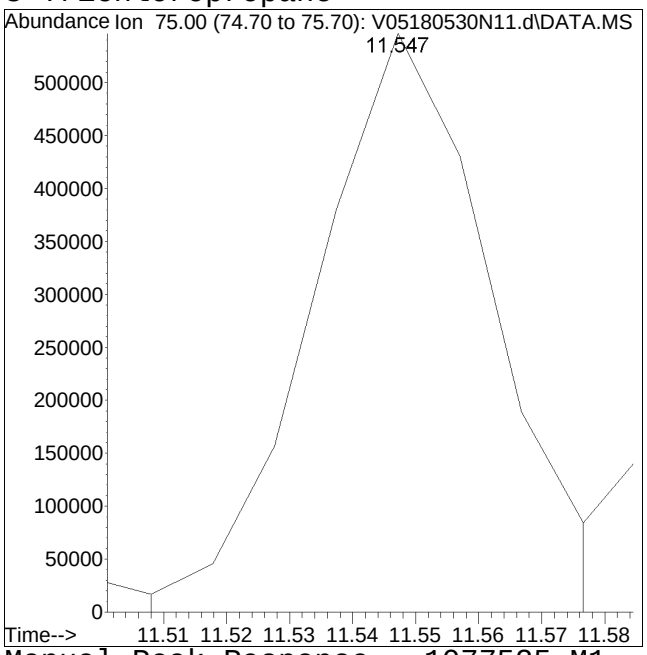
Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N11.d
Date Inj'd : 5/31/2018 1:31 am
Sample : I8260STDL8

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 11:44 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 1072183



Manual Peak Response = 1077525 M1

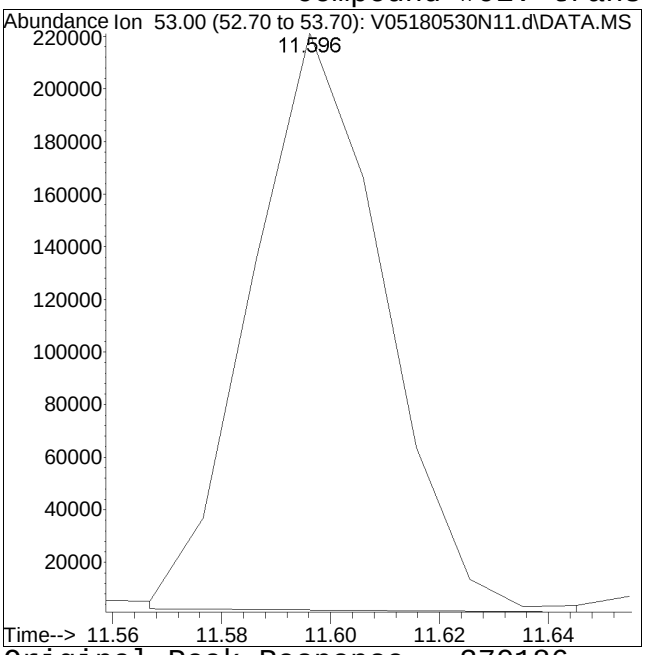
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

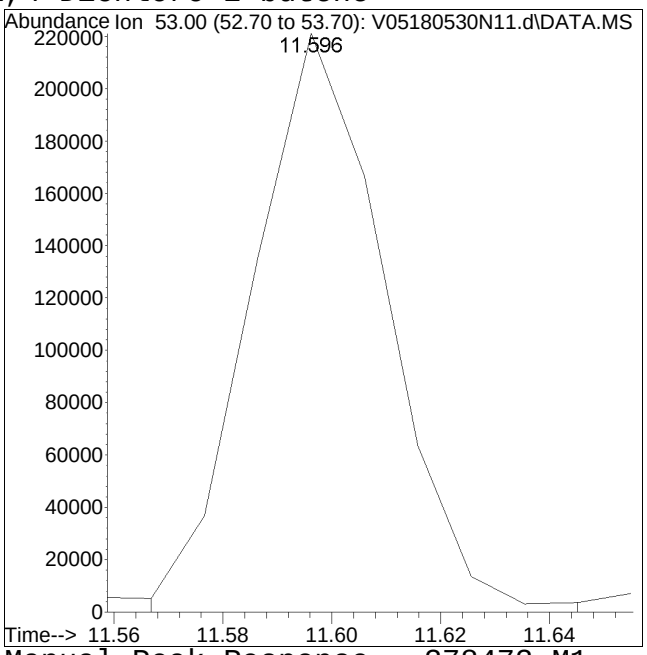
Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N11.d
Date Inj'd : 5/31/2018 1:31 am
Sample : I8260STDL8

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 11:44 am

Compound #92: trans-1,4-Dichloro-2-butene



Original Peak Response = 370186



Manual Peak Response = 378473 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N12.d
Acq On : 31 May 2018 1:56 am
Operator : VOA105:PD
Sample : I8260STDL10
Misc : WG1121113,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 11:48:39 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:43:38 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.154	96	791091	10.000	ug/L	0.00
Standard Area 1 = 676493			Recovery = 116.94%			
59) Chlorobenzene-d5	9.696	117	596757	10.000	ug/L	0.00
Standard Area 1 = 513181			Recovery = 116.29%			
79) 1,4-Dichlorobenzene-d4	12.361	152	301973	10.000	ug/L	0.00
Standard Area 1 = 264631			Recovery = 114.11%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.342	113	207578	9.739	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.39%			
43) 1,2-Dichloroethane-d4	5.880	65	244175	9.524	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.24%			
60) Toluene-d8	7.836	98	774331	9.973	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.73%			
83) 4-Bromofluorobenzene	11.165	95	293661	10.314	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.14%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.713	85	2119190	180.529	ug/L	99
3) Chloromethane	1.909	50	2295466	180.524	ug/L	98
4) Vinyl chloride	1.997	62	2403130	190.083	ug/L	96
5) Bromomethane	2.320	94	1222792	235.162	ug/L	96
6) Chloroethane	2.427	64	1123802	163.534	ug/L	96
7) Trichlorofluoromethane	2.574	101	3559568	175.706	ug/L	98
8) Ethyl ether	2.877	74	886897	185.174	ug/L	96
10) 1,1-Dichloroethene	3.073	96	2365291	191.808	ug/L	90
11) Carbon disulfide	3.102	76	6086031	230.376	ug/L	99
12) Freon-113	3.102	101	2512267	182.035	ug/L	88
13) Iodomethane	3.220	142	2717913	611.030	ug/L	95
14) Acrolein	3.405	56	315937	270.167	ug/L	98
15) Methylene chloride	3.640	84	2618358	173.648	ug/L	97
17) Acetone	3.689	43	469439	98.598	ug/L	95
18) trans-1,2-Dichloroethene	3.787	96	2784816	195.050	ug/L	94
19) Methyl acetate	3.797	43	1250368	186.603	ug/L	94
20) Methyl tert-butyl ether	3.885	73	5999679	235.632	ug/L	94
21) tert-Butyl alcohol	3.983	59	591825	1513.454	ug/L	87
22) Diisopropyl ether	4.237	45	9594433	218.288	ug/L	94
23) 1,1-Dichloroethane	4.384	63	5263930	186.345	ug/L	99
24) Halothane	4.432	117	2288193	209.799	ug/L	99

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N12.d
Acq On : 31 May 2018 1:56 am
Operator : VOA105:PD
Sample : I8260STDL10
Misc : WG1121113,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 11:48:39 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:43:38 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.442	53	582598	211.502	ug/L		93
26) Ethyl tert-butyl ether	4.589	59	7655426	239.867	ug/L		93
27) Vinyl acetate	4.609	43	6059651	245.252	ug/L		99
28) cis-1,2-Dichloroethene	4.902	96	3134051	200.837	ug/L		95
29) 2,2-Dichloropropane	5.000	77	4315628	232.056	ug/L		92
30) Bromochloromethane	5.098	128	1422567	197.742	ug/L		88
31) Cyclohexane	5.088	56	4194868	209.172	ug/L		94
32) Chloroform	5.166	83	5297329	187.274	ug/L		99
33) Ethyl acetate	5.274	43	1849516	221.645	ug/L		98
34) Carbon tetrachloride	5.293	117	4592988	240.471	ug/L		99
35) Tetrahydrofuran	5.323	42	491581M1	179.654	ug/L		
37) 1,1,1-Trichloroethane	5.362	97	5011790	201.052	ug/L		97
39) 2-Butanone	5.459	43	729498	201.069	ug/L		91
40) 1,1-Dichloropropene	5.479	75	4068052	204.845	ug/L		97
41) Benzene	5.733	78	11513086	199.810	ug/L		98
42) tert-Amyl methyl ether	5.831	73	6540002	266.349	ug/L		88
44) 1,2-Dichloroethane	5.948	62	3875187	173.796	ug/L		98
47) Methyl cyclohexane	6.310	83	3519963	213.064	ug/L		92
48) Trichloroethene	6.330	95	3039637	179.426	ug/L		92
50) Dibromomethane	6.780	93	1607360	206.451	ug/L		92
51) 1,2-Dichloropropane	6.878	63	2913521	203.887	ug/L		98
53) 2-Chloroethyl vinyl ether	7.562	63	1277947	284.138	ug/L	#	80
54) Bromodichloromethane	6.946	83	4142546	231.758	ug/L		99
57) 1,4-Dioxane	7.161	88	136427	2253.246	ug/L		94
58) cis-1,3-Dichloropropene	7.641	75	4822121	268.333	ug/L		97
61) Toluene	7.895	92	7350011	195.824	ug/L		99
62) 4-Methyl-2-pentanone	8.335	58	583664	332.550	ug/L		89
63) Tetrachloroethene	8.345	166	3189173	202.608	ug/L		93
65) trans-1,3-Dichloropropene	8.394	75	4237926	283.968	ug/L		97
67) Ethyl methacrylate	8.560	69	2919645	318.841	ug/L		91
68) 1,1,2-Trichloroethane	8.580	83	1916450	210.774	ug/L		96
69) Chlorodibromomethane	8.785	129	3158951	306.738	ug/L		93
70) 1,3-Dichloropropane	8.903	76	3747286	207.198	ug/L		98
71) 1,2-Dibromoethane	9.069	107	2188324	232.055	ug/L		99
72) 2-Hexanone	9.343	43	1156827	328.565	ug/L		92
73) Chlorobenzene	9.716	112	8069100	188.288	ug/L		91
74) Ethylbenzene	9.745	91	13971024	198.554	ug/L		96
75) 1,1,1,2-Tetrachloroethane	9.794	131	3185071	237.531	ug/L		98
76) p/m Xylene	9.931	106	10396287	400.668	ug/L		90
77) o Xylene	10.470	106	9789610	409.100	ug/L		89

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N12.d
Acq On : 31 May 2018 1:56 am
Operator : VOA105:PD
Sample : I8260STDL10
Misc : WG1121113,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 11:48:39 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:43:38 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.539	104	15948596	422.897	ug/L	100
80) Bromoform	10.568	173	1616063	331.196	ug/L	99
82) Isopropylbenzene	10.832	105	13207260	223.178	ug/L	99
84) Bromobenzene	11.273	156	3525574	200.400	ug/L	99
85) n-Propylbenzene	11.312	91	14367612	205.460	ug/L	97
86) 1,4-Dichlorobutane	11.342	55	3378657	207.526	ug/L	100
87) 1,1,2,2-Tetrachloroethane	11.410	83	2116362	208.182	ug/L	99
88) 4-Ethyltoluene	11.440	105	12414273	221.863	ug/L	99
89) 2-Chlorotoluene	11.479	91	9404272M1	196.336	ug/L	
90) 1,3,5-Trimethylbenzene	11.528	105	10715545	215.154	ug/L	99
91) 1,2,3-Trichloropropane	11.548	75	1809262M1	189.436	ug/L	
92) trans-1,4-Dichloro-2-b...	11.597	53	651339M1	302.947	ug/L	
93) 4-Chlorotoluene	11.665	91	9954199	207.744	ug/L	95
94) tert-Butylbenzene	11.871	119	8345336	227.747	ug/L	95
97) 1,2,4-Trimethylbenzene	11.949	105	11014631	226.503	ug/L	98
98) sec-Butylbenzene	12.057	105	10898384	227.530	ug/L	96
99) p-Isopropyltoluene	12.204	119	9936795	240.499	ug/L	97
100) 1,3-Dichlorobenzene	12.282	146	6275612	205.322	ug/L	98
101) 1,4-Dichlorobenzene	12.380	146	6357997	194.430	ug/L	98
102) p-Diethylbenzene	12.576	119	5680761	244.734	ug/L	97
103) n-Butylbenzene	12.635	91	8151576	222.967	ug/L	97
104) 1,2-Dichlorobenzene	12.801	146	5560544	209.103	ug/L	98
105) 1,2,4,5-Tetramethylben...	13.370	119	8977889	281.791	ug/L	96
106) 1,2-Dibromo-3-chloropr...	13.575	155	302779	357.075	ug/L	94
107) 1,3,5-Trichlorobenzene	13.595	180	3426535	214.906	ug/L	96
108) Hexachlorobutadiene	14.163	225	1218718	217.141	ug/L	99
109) 1,2,4-Trichlorobenzene	14.192	180	2828890	242.124	ug/L	98
110) Naphthalene	14.486	128	5032605	321.977	ug/L	100
111) 1,2,3-Trichlorobenzene	14.653	180	1876751	239.347	ug/L	99

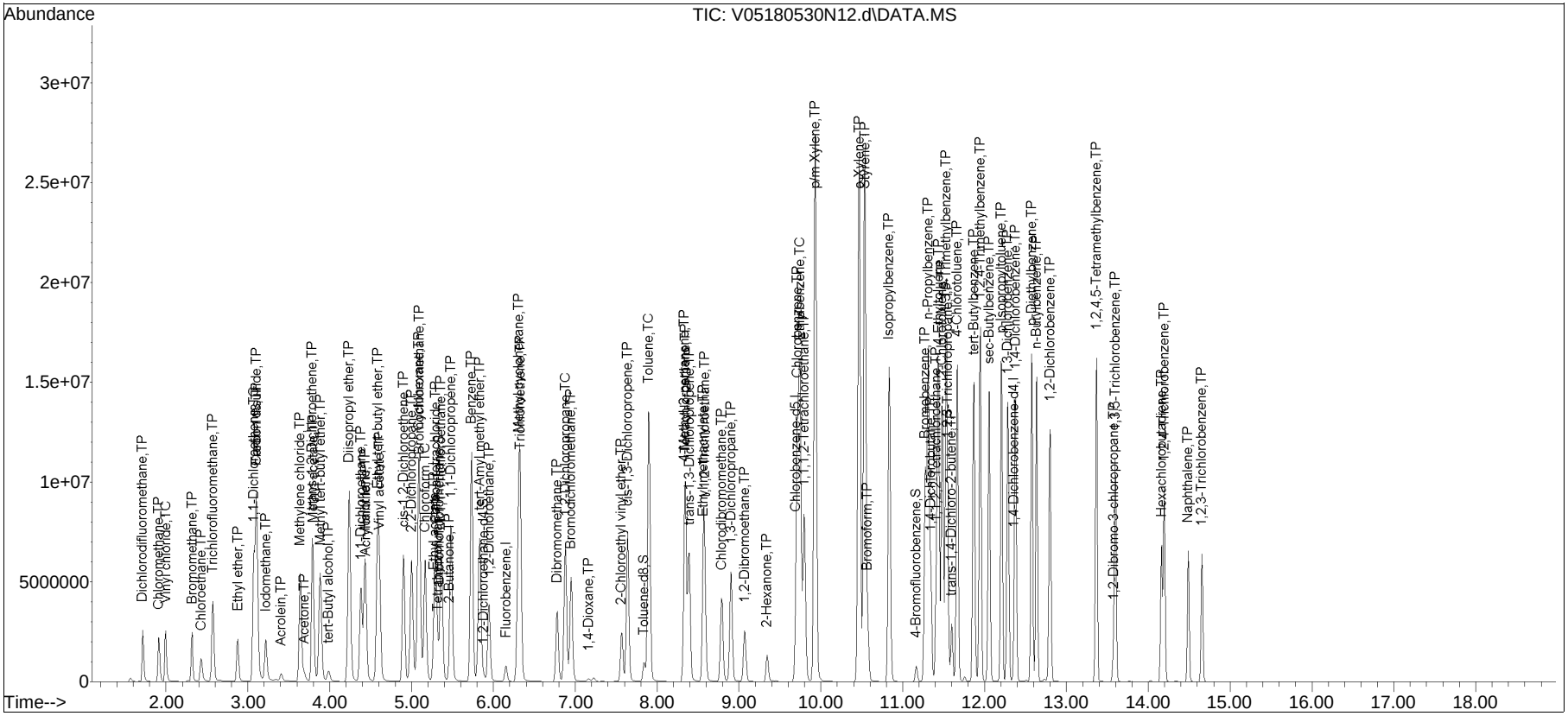
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N12.d
Acq On : 31 May 2018 1:56 am
Operator : VOA105:PD
Sample : I8260STDL10
Misc : WG1121113,ICAL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 31 11:48:39 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:43:38 2018
Response via : Initial Calibration

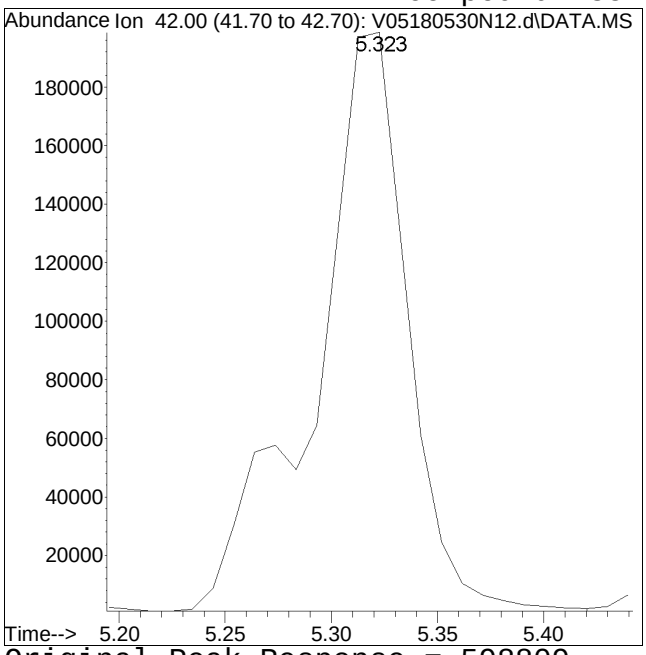
Sub List : 8260-Curve - Megamix plus Diox80530N\V05180530N08.d•

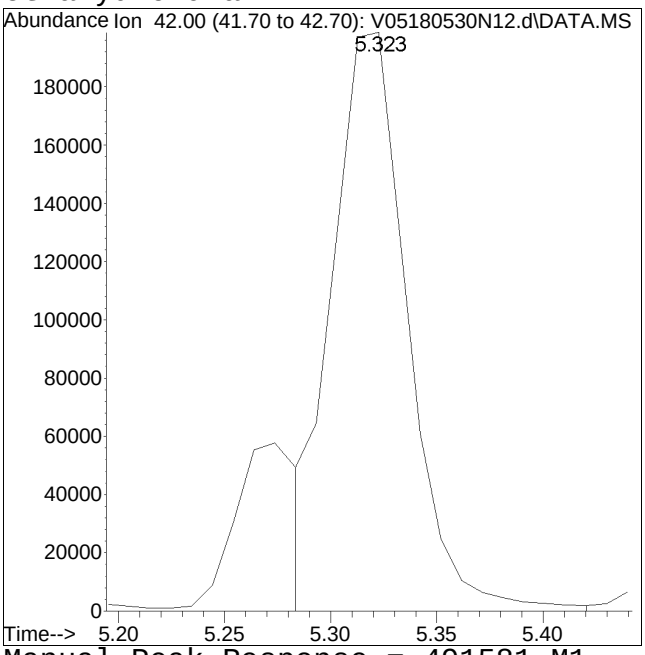


Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1QMethod : V105_180530N_8260.m
Data File : V05180530N12.d Operator : VOA105:PD
Date Inj'd : 5/31/2018 1:56 am Instrument : VOA 105
Sample : I8260STDL10 Quant Date : 5/31/2018 11:44 am

Compound #35: Tetrahydrofuran





Original Peak Response = 598809 Manual Peak Response = 491581 M1

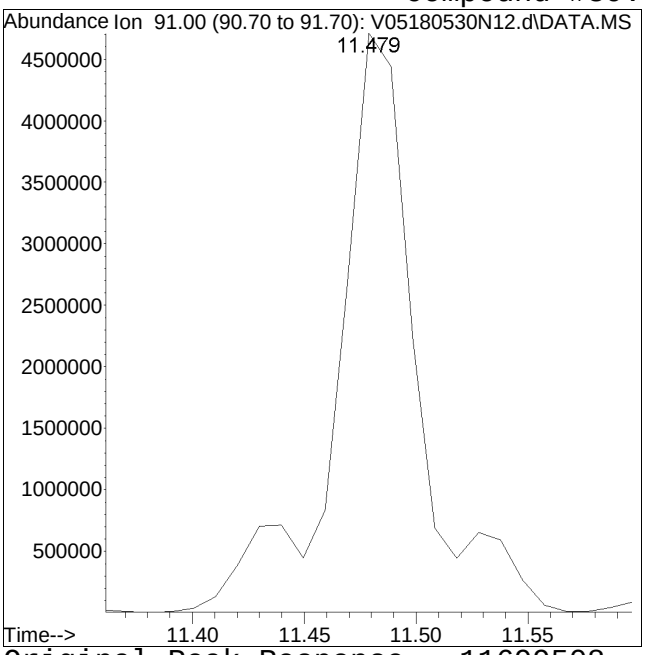
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

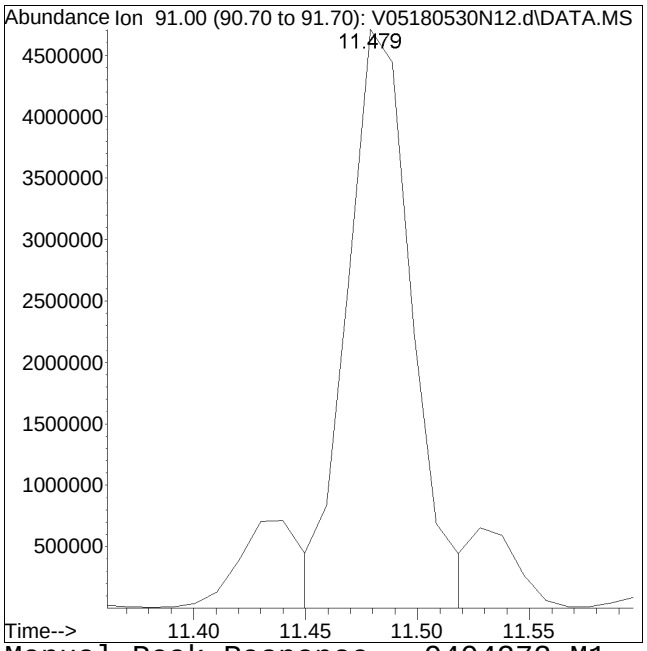
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N12.d
Date Inj'd : 5/31/2018 1:56 am
Sample : I8260STDL10

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 11:44 am

Compound #89: 2-Chlorotoluene





Original Peak Response = 11699508 Manual Peak Response = 9404272 M1

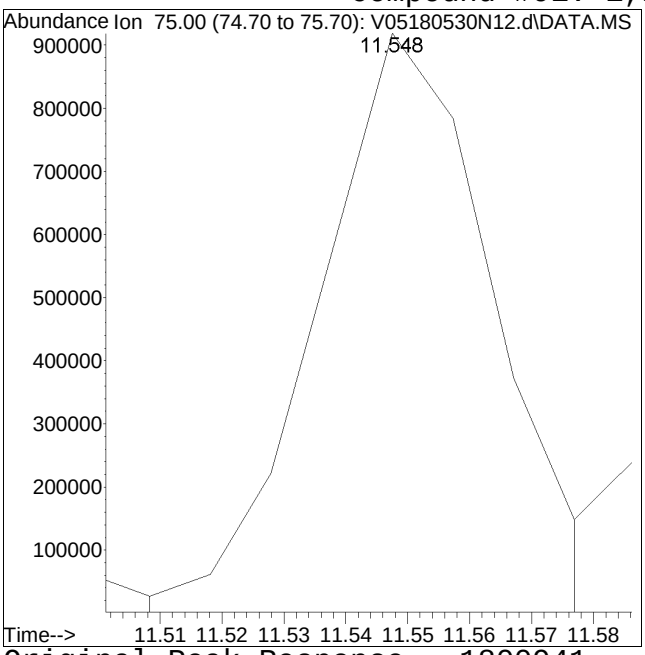
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

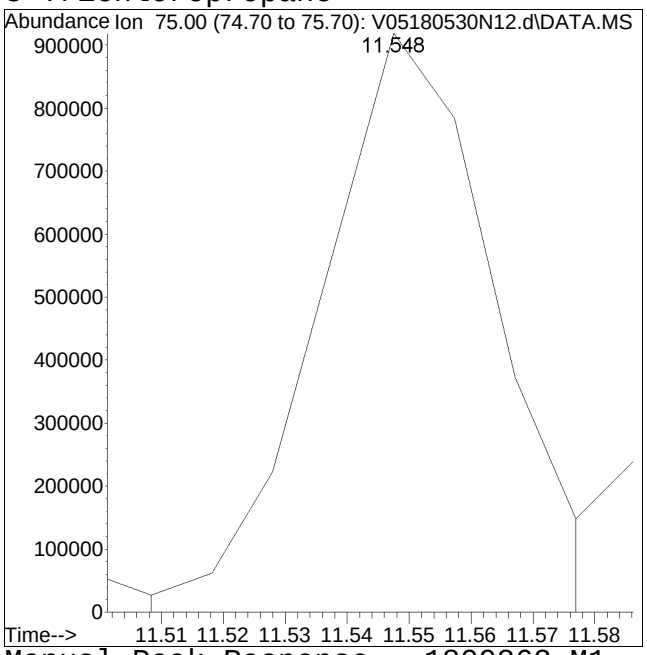
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N12.d
Date Inj'd : 5/31/2018 1:56 am
Sample : I8260STDL10

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 11:44 am

Compound #91: 1,2,3-Trichloropropane





Original Peak Response = 1800941 Manual Peak Response = 1809262 M1

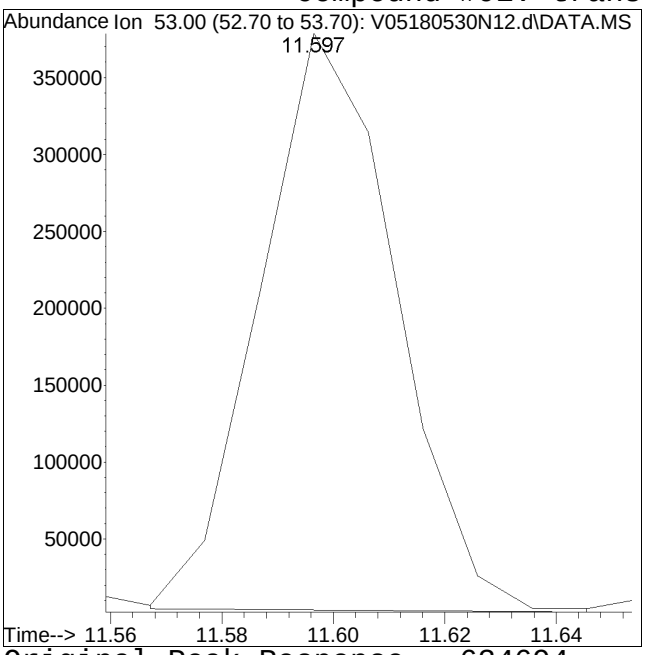
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

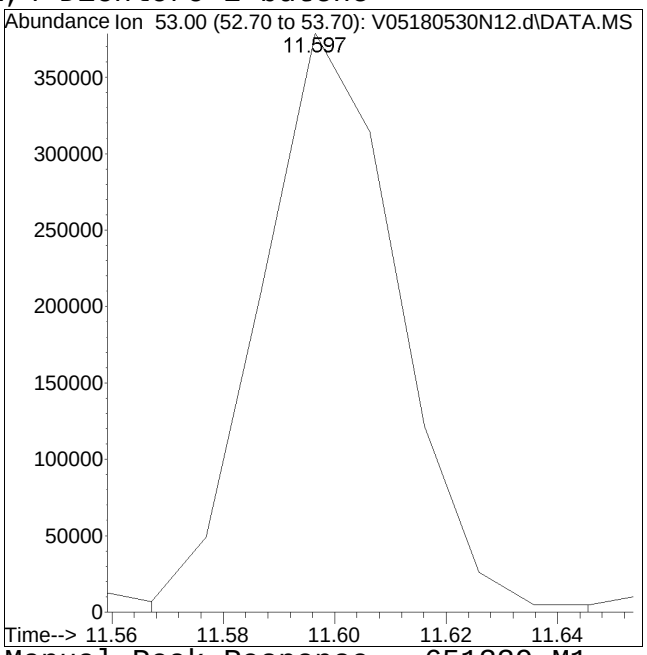
Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N12.d
Date Inj'd : 5/31/2018 1:56 am
Sample : I8260STDL10

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 11:44 am

Compound #92: trans-1,4-Dichloro-2-butene



Original Peak Response = 634694



Manual Peak Response = 651339 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N19.d
Acq On : 31 May 2018 4:51 am
Operator : VOA105:PD
Sample : C8260STDL3
Misc : WG1121113,ICAL (Sig #1); WG,ICAL (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 31 11:59:26 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	110	0.00
2	TP	Dichlorodifluoromethane	0.145	0.222	-53.1#	150	0.00
3	TP	Chloromethane	0.152	0.200	-31.6#	138	0.00
4	TC	Vinyl chloride	0.159	0.196	-23.3#	125	0.00
5	TP	Bromomethane	0.069	0.096#	-39.1#	154	0.00
6	TP	Chloroethane	0.081	0.099#	-22.2#	128	0.00
7	TP	Trichlorofluoromethane	0.248	0.273	-10.1	111	0.00
8	TP	Ethyl ether	0.059	0.072	-22.0#	132	0.00
10	TC	1,1-Dichloroethene	0.155	0.146	5.8	100	0.00
11	TP	Carbon disulfide	0.361	0.371	-2.8	112	0.00
12	TP	Freon-113	0.171	0.172	-0.6	100	0.00
13	TP	Iodomethane	* 10.000	3.980	60.2#	66	0.00
14	TP	Acrolein	0.019	0.015#	21.1#	96	0.00
15	TP	Methylene chloride	0.180	0.162	10.0	96	0.00
17	TP	Acetone	* 10.000	8.789	12.1	100	0.00
18	TP	trans-1,2-Dichloroethene	0.180	0.169	6.1	99	0.00
19	TP	Methyl acetate	0.083	0.072#	13.3	103	0.00
20	TP	Methyl tert-butyl ether	0.354	0.352	0.6	111	0.00
21	TP	tert-Butyl alcohol	0.00604	0.00615#	-1.8	119	0.00
22	TP	Diisopropyl ether	0.593	0.601	-1.3	108	0.00
23	TP	1,1-Dichloroethane	0.350	0.318	9.1	96	0.00
24	TP	Halothane	0.142	0.132	7.0	98	0.00
25	TP	Acrylonitrile	0.036	0.034#	5.6	106	0.00
26	TP	Ethyl tert-butyl ether	0.453	0.445	1.8	107	0.00
27	TP	Vinyl acetate	0.355	0.312	12.1	95	0.00
28	TP	cis-1,2-Dichloroethene	0.200	0.190	5.0	103	0.00
29	TP	2,2-Dichloropropane	0.257	0.218	15.2	91	0.00
30	TP	Bromochloromethane	0.092	0.085	7.6	97	0.00
31	TP	Cyclohexane	0.268	0.265	1.1	98	0.00
32	TC	Chloroform	0.351	0.312	11.1	94	0.00
33	TP	Ethyl acetate	0.112	0.097	13.4	98	0.00
34	TP	Carbon tetrachloride	0.268	0.253	5.6	96	0.00
35	TP	Tetrahydrofuran	0.033	0.032#	3.0	112	0.00
36	S	Dibromofluoromethane	0.269	0.260	3.3	106	0.00
37	TP	1,1,1-Trichloroethane	0.322	0.294	8.7	96	0.00
39	TP	2-Butanone	0.046	0.040#	13.0	97	0.00
40	TP	1,1-Dichloropropene	0.260	0.244	6.2	96	0.00
41	TP	Benzene	0.737	0.693	6.0	98	0.00
42	TP	tert-Amyl methyl ether	0.365	0.354	3.0	110	0.00

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N19.d
Acq On : 31 May 2018 4:51 am
Operator : VOA105:PD
Sample : C8260STDL3
Misc : WG1121113,ICAL (Sig #1); WG,ICAL (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 31 11:59:26 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	S	1,2-Dichloroethane-d4	0.319	0.309	3.1	104	0.00
44	TP	1,2-Dichloroethane	0.268	0.240	10.4	96	0.00
47	TP	Methyl cyclohexane	0.221	0.200	9.5	92	0.00
48	TP	Trichloroethene	0.207	0.185#	10.6	97	0.00
50	TP	Dibromomethane	0.101	0.090	10.9	97	0.00
51	TC	1,2-Dichloropropane	0.185	0.172	7.0	100	0.00
53	TP	2-Chloroethyl vinyl ether	0.076	0.064	15.8	98	0.00
54	TP	Bromodichloromethane	0.248	0.225	9.3	98	0.00
57	TP	1,4-Dioxane	0.00084	0.00068#	19.0	75	0.00
58	TP	cis-1,3-Dichloropropene	0.273	0.248	9.2	97	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
60	S	Toluene-d8	1.299	1.319	-1.5	107	0.00
61	TC	Toluene	0.627	0.602	4.0	98	0.00
62	TP	4-Methyl-2-pentanone	0.043	0.037#	14.0	102	0.00
63	TP	Tetrachloroethene	0.268	0.252	6.0	96	0.00
65	TP	trans-1,3-Dichloropropene	* 10.000	7.525	24.7#	89	0.00
67	TP	Ethyl methacrylate	0.224	0.235	-4.9	121	0.00
68	TP	1,1,2-Trichloroethane	0.160	0.150	6.3	92	0.00
69	TP	Chlorodibromomethane	* 10.000	8.171	18.3	101	0.00
70	TP	1,3-Dichloropropane	0.313	0.296	5.4	97	0.00
71	TP	1,2-Dibromoethane	0.172	0.160	7.0	97	0.00
72	TP	2-Hexanone	0.083	0.071#	14.5	101	0.00
73	TP	Chlorobenzene	0.705	0.665	5.7	97	0.00
74	TC	Ethylbenzene	1.194	1.134	5.0	96	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.248	0.228	8.1	95	0.00
76	TP	p/m Xylene	0.452	0.437	3.3	95	0.00
77	TP	o Xylene	0.422	0.446	-5.7	104	0.00
78	TP	Styrene	0.679	0.727	-7.1	104	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
80	TP	Bromoform	* 10.000	7.669	23.3#	99	0.00
82	TP	Isopropylbenzene	2.093	2.087	0.3	96	0.00
83	S	4-Bromofluorobenzene	0.947	0.974	-2.9	108	0.00
84	TP	Bromobenzene	0.584	0.554	5.1	97	0.00
85	TP	n-Propylbenzene	2.375	2.322	2.2	95	0.00
86	TP	1,4-Dichlorobutane	0.553	0.609	-10.1	110	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.345	0.312	9.6	93	0.00
88	TP	4-Ethyltoluene	1.976	2.281	-15.4	112	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N19.d
Acq On : 31 May 2018 4:51 am
Operator : VOA105:PD
Sample : C8260STDL3
Misc : WG1121113,ICAL (Sig #1); WG,ICAL (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 31 11:59:26 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
89 TP	2-Chlorotoluene		1.586	1.551	2.2	97	0.00
90 TP	1,3,5-Trimethylbenzene		1.733	1.694	2.3	94	0.00
91 TP	1,2,3-Trichloropropane		0.308	0.272	11.7	90	0.00
92 TP	trans-1,4-Dichloro-2-butene		0.095	0.084	11.6	102	0.00
93 TP	4-Chlorotoluene		1.628	1.599	1.8	96	0.00
94 TP	tert-Butylbenzene		1.308	1.319	-0.8	97	0.00
97 TP	1,2,4-Trimethylbenzene		1.745	1.742	0.2	96	0.00
98 TP	sec-Butylbenzene		1.702	1.773	-4.2	101	0.00
99 TP	p-Isopropyltoluene		1.525	1.520	0.3	96	0.00
100 TP	1,3-Dichlorobenzene		1.029	0.976	5.2	95	0.00
101 TP	1,4-Dichlorobenzene		1.073	1.001	6.7	95	0.00
102 TP	p-Diethylbenzene		0.861	0.915	-6.3	103	0.00
103 TP	n-Butylbenzene		1.281	1.244	2.9	93	0.00
104 TP	1,2-Dichlorobenzene		0.906	0.860	5.1	96	0.00
105 TP	1,2,4,5-Tetramethylbenzene		1.385	1.423	-2.7	107	0.00
106 TP	1,2-Dibromo-3-chloropropane	*	10.000	6.737	32.6#	90	0.00
107 TP	1,3,5-Trichlorobenzene		0.548	0.530	3.3	97	0.00
108 TP	Hexachlorobutadiene		0.189	0.179	5.3	98	0.00
109 TP	1,2,4-Trichlorobenzene		0.426	0.380	10.8	93	0.00
110 TP	Naphthalene	*	10.000	7.607	23.9#	91	0.00
111 TP	1,2,3-Trichlorobenzene		0.284	0.245	13.7	89	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 12 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N19.d
Acq On : 31 May 2018 4:51 am
Operator : VOA105:PD
Sample : C8260STDL3
Misc : WG1121113,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 31 11:59:26 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.154	96	743439	10.000	ug/L	0.00
Standard Area 1 = 676493			Recovery = 109.90%			
59) Chlorobenzene-d5	9.686	117	547615	10.000	ug/L	0.00
Standard Area 1 = 513181			Recovery = 106.71%			
79) 1,4-Dichlorobenzene-d4	12.360	152	275188	10.000	ug/L	0.00
Standard Area 1 = 264631			Recovery = 103.99%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.342	113	193518	9.693	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.93%			
43) 1,2-Dichloroethane-d4	5.880	65	229971	9.709	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.09%			
60) Toluene-d8	7.836	98	722258	10.154	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.54%			
83) 4-Bromofluorobenzene	11.165	95	268119	10.291	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.91%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.713	85	164946	15.282	ug/L	99
3) Chloromethane	1.909	50	148478	13.130	ug/L	98
4) Vinyl chloride	1.997	62	146025	12.320	ug/L	96
5) Bromomethane	2.320	94	71097	13.855	ug/L	98
6) Chloroethane	2.437	64	73532	12.238	ug/L	96
7) Trichlorofluoromethane	2.584	101	202622	10.979	ug/L	98
8) Ethyl ether	2.877	74	53204	12.097	ug/L	94
10) 1,1-Dichloroethene	3.073	96	108292	9.422	ug/L	92
11) Carbon disulfide	3.112	76	275712	10.270	ug/L	99
12) Freon-113	3.112	101	128057	10.056	ug/L	77
13) Iodomethane	3.219	142	40251M1	3.980	ug/L	
14) Acrolein	3.415	56	11501	8.156	ug/L	95
15) Methylene chloride	3.640	84	120256	9.010	ug/L	98
17) Acetone	3.689	43	21996	8.789	ug/L	98
18) trans-1,2-Dichloroethene	3.797	96	125319	9.355	ug/L	94
19) Methyl acetate	3.806	43	53805	8.765	ug/L	95
20) Methyl tert-butyl ether	3.885	73	261598	9.929	ug/L	98
21) tert-Butyl alcohol	3.982	59	22864	50.949	ug/L	84
22) Diisopropyl ether	4.237	45	446744	10.137	ug/L	97
23) 1,1-Dichloroethane	4.383	63	236202	9.088	ug/L	99
24) Halothane	4.432	117	97880	9.249	ug/L	100

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N19.d
Acq On : 31 May 2018 4:51 am
Operator : VOA105:PD
Sample : C8260STDL3
Misc : WG1121113,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 31 11:59:26 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.442	53	25412	9.477	ug/L		96
26) Ethyl tert-butyl ether	4.589	59	331074	9.836	ug/L		88
27) Vinyl acetate	4.618	43	231807	8.772	ug/L		100
28) cis-1,2-Dichloroethene	4.902	96	141144	9.496	ug/L		96
29) 2,2-Dichloropropane	5.000	77	161920	8.466	ug/L		98
30) Bromochloromethane	5.097	128	63452	9.232	ug/L		88
31) Cyclohexane	5.088	56	196925	9.874	ug/L		94
32) Chloroform	5.166	83	232110	8.898	ug/L		100
33) Ethyl acetate	5.273	43	72176	8.646	ug/L		98
34) Carbon tetrachloride	5.293	117	187859	9.422	ug/L		99
35) Tetrahydrofuran	5.322	42	23483M1	9.551	ug/L		
37) 1,1,1-Trichloroethane	5.361	97	218298	9.124	ug/L		98
39) 2-Butanone	5.469	43	29397	8.541	ug/L		98
40) 1,1-Dichloropropene	5.489	75	181204	9.383	ug/L		98
41) Benzene	5.733	78	515404	9.405	ug/L		99
42) tert-Amyl methyl ether	5.831	73	263138	9.699	ug/L		99
44) 1,2-Dichloroethane	5.948	62	178728	8.973	ug/L		100
47) Methyl cyclohexane	6.310	83	149008	9.085	ug/L		95
48) Trichloroethene	6.330	95	137506	8.950	ug/L		94
50) Dibromomethane	6.780	93	66688	8.862	ug/L		93
51) 1,2-Dichloropropane	6.877	63	127550	9.261	ug/L		98
53) 2-Chloroethyl vinyl ether	7.572	63	47782	8.469	ug/L	#	80
54) Bromodichloromethane	6.946	83	167132	9.057	ug/L		99
57) 1,4-Dioxane	7.161	88	25328	405.186	ug/L		95
58) cis-1,3-Dichloropropene	7.640	75	184223	9.089	ug/L		99
61) Toluene	7.895	92	329440	9.589	ug/L		97
62) 4-Methyl-2-pentanone	8.345	58	20452	8.708	ug/L		98
63) Tetrachloroethene	8.345	166	138219	9.426	ug/L		95
65) trans-1,3-Dichloropropene	8.394	75	139081	7.525	ug/L		98
67) Ethyl methacrylate	8.570	69	128526	10.467	ug/L		89
68) 1,1,2-Trichloroethane	8.579	83	81895	9.368	ug/L		97
69) Chlorodibromomethane	8.785	129	106971	8.171	ug/L		98
70) 1,3-Dichloropropane	8.902	76	162052	9.461	ug/L		99
71) 1,2-Dibromoethane	9.069	107	87778	9.302	ug/L		98
72) 2-Hexanone	9.353	43	38696	8.466	ug/L		95
73) Chlorobenzene	9.715	112	364133	9.437	ug/L		93
74) Ethylbenzene	9.745	91	621208	9.498	ug/L		96
75) 1,1,1,2-Tetrachloroethane	9.794	131	124808	9.186	ug/L		98
76) p/m Xylene	9.931	106	478844	19.355	ug/L		93
77) o Xylene	10.460	106	488575	21.163	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N19.d
Acq On : 31 May 2018 4:51 am
Operator : VOA105:PD
Sample : C8260STDL3
Misc : WG1121113,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 31 11:59:26 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180530N\V05180530N08.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.529	104	796125	21.408	ug/L	99
80) Bromoform	10.568	173	51360	7.669	ug/L	99
82) Isopropylbenzene	10.832	105	574400	9.971	ug/L	99
84) Bromobenzene	11.273	156	152339	9.483	ug/L	99
85) n-Propylbenzene	11.312	91	639124	9.779	ug/L	97
86) 1,4-Dichlorobutane	11.342	55	167722	11.020	ug/L	97
87) 1,1,2,2-Tetrachloroethane	11.410	83	85928	9.062	ug/L	98
88) 4-Ethyltoluene	11.430	105	627601	11.540	ug/L	99
89) 2-Chlorotoluene	11.479	91	426685M1	9.779	ug/L	
90) 1,3,5-Trimethylbenzene	11.528	105	466151	9.777	ug/L	99
91) 1,2,3-Trichloropropane	11.547	75	74731M1	8.825	ug/L	
92) trans-1,4-Dichloro-2-b...	11.596	53	23099M1	8.861	ug/L	
93) 4-Chlorotoluene	11.665	91	440067	9.821	ug/L	96
94) tert-Butylbenzene	11.871	119	362954	10.082	ug/L	96
97) 1,2,4-Trimethylbenzene	11.949	105	479411	9.985	ug/L	98
98) sec-Butylbenzene	12.057	105	487824	10.417	ug/L	96
99) p-Isopropyltoluene	12.204	119	418283	9.965	ug/L	97
100) 1,3-Dichlorobenzene	12.282	146	268573	9.481	ug/L	98
101) 1,4-Dichlorobenzene	12.380	146	275439	9.328	ug/L	98
102) p-Diethylbenzene	12.576	119	251823	10.623	ug/L	97
103) n-Butylbenzene	12.635	91	342311	9.707	ug/L	97
104) 1,2-Dichlorobenzene	12.801	146	236576	9.484	ug/L	98
105) 1,2,4,5-Tetramethylben...	13.369	119	391576	10.271	ug/L	96
106) 1,2-Dibromo-3-chloropr...	13.575	155	8168	6.737	ug/L	94
107) 1,3,5-Trichlorobenzene	13.595	180	145794	9.674	ug/L	96
108) Hexachlorobutadiene	14.163	225	49142	9.471	ug/L	98
109) 1,2,4-Trichlorobenzene	14.192	180	104696	8.938	ug/L	98
110) Naphthalene	14.486	128	160066	7.607	ug/L	100
111) 1,2,3-Trichlorobenzene	14.653	180	67409	8.627	ug/L	98

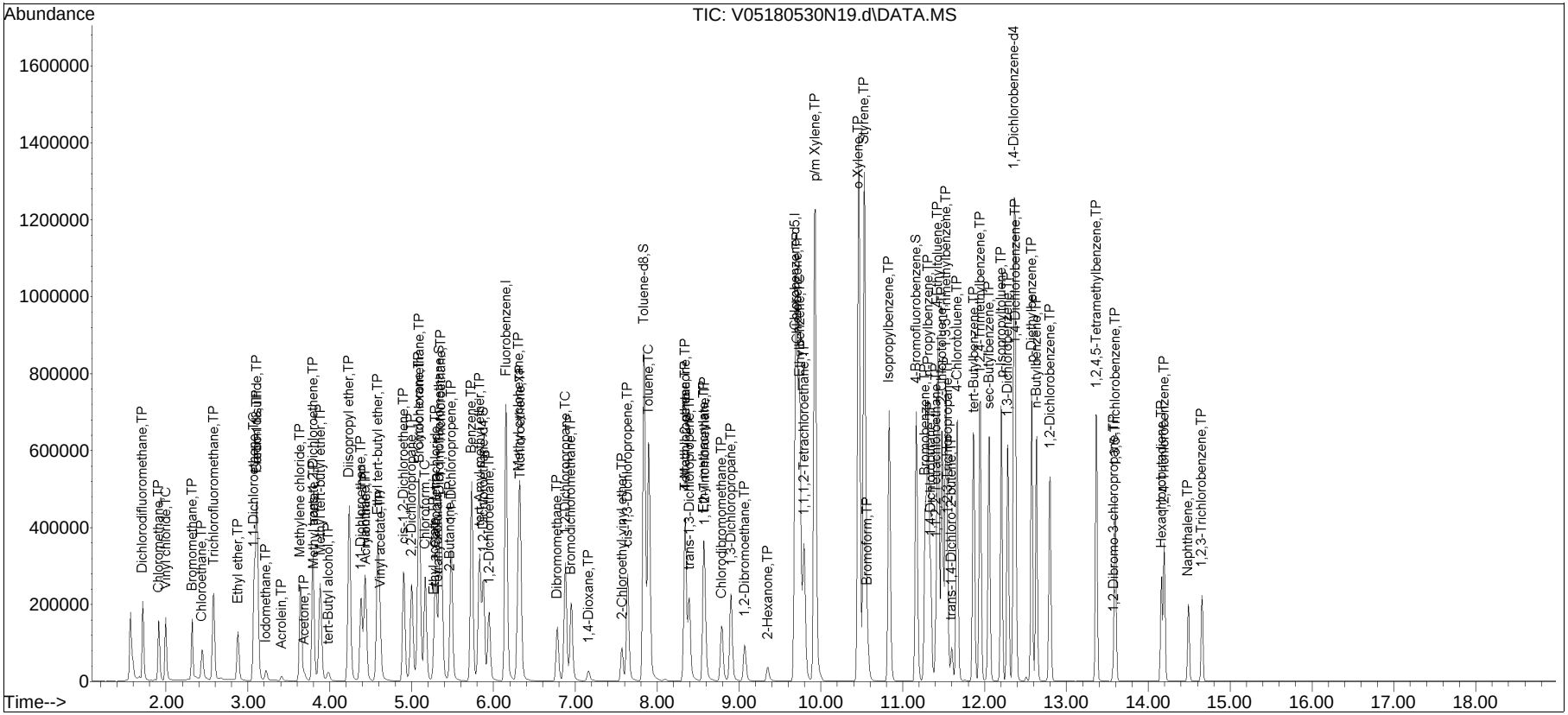
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180530N\
Data File : V05180530N19.d
Acq On : 31 May 2018 4:51 am
Operator : VOA105:PD
Sample : C8260STDL3
Misc : WG1121113,ICAL
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 31 11:59:26 2018
Quant Method : I:\VOLATILES\VOA105\2018\180530N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

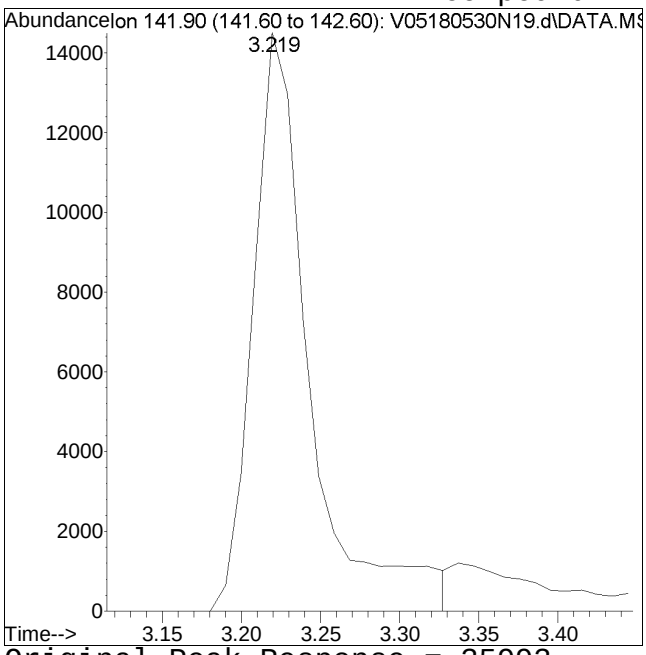
Sub List : 8260-Curve - Megamix plus Diox80530N\V05180530N08.d•

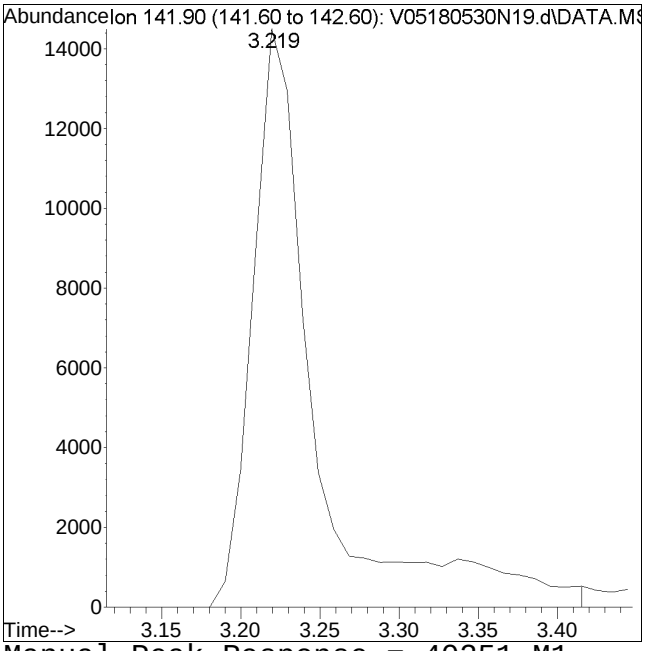


Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1QMethod : V105_180530N_8260.m
Data File : V05180530N19.d Operator : VOA105:PD
Date Inj'd : 5/31/2018 4:51 am Instrument : VOA 105
Sample : C8260STDL3 Quant Date : 5/31/2018 11:56 am

Compound #13: Iodomethane



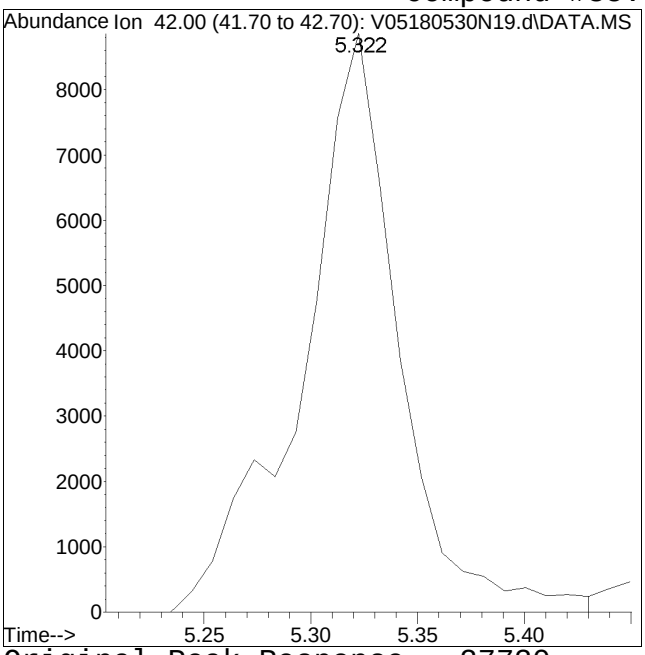


Original Peak Response = 35993 Manual Peak Response = 40251 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

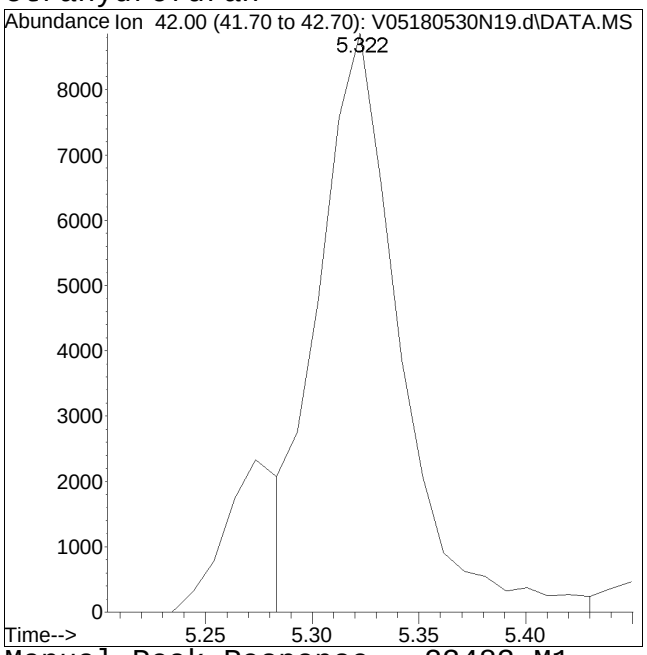
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1QMethod : V105_180530N_8260.m
Data File : V05180530N19.d Operator : VOA105:PD
Date Inj'd : 5/31/2018 4:51 am Instrument : VOA 105
Sample : C8260STDL3 Quant Date : 5/31/2018 11:56 am

Compound #35: Tetrahydrofuran



Original Peak Response = 27730



Manual Peak Response = 23483 M1

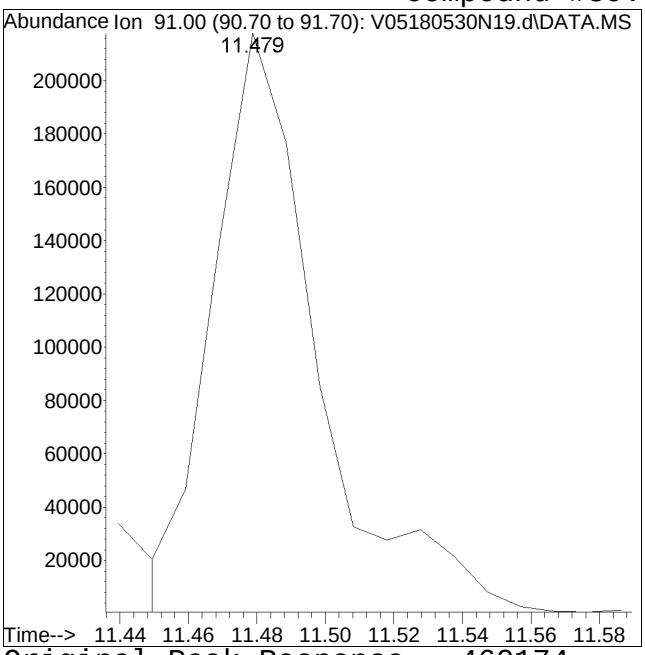
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

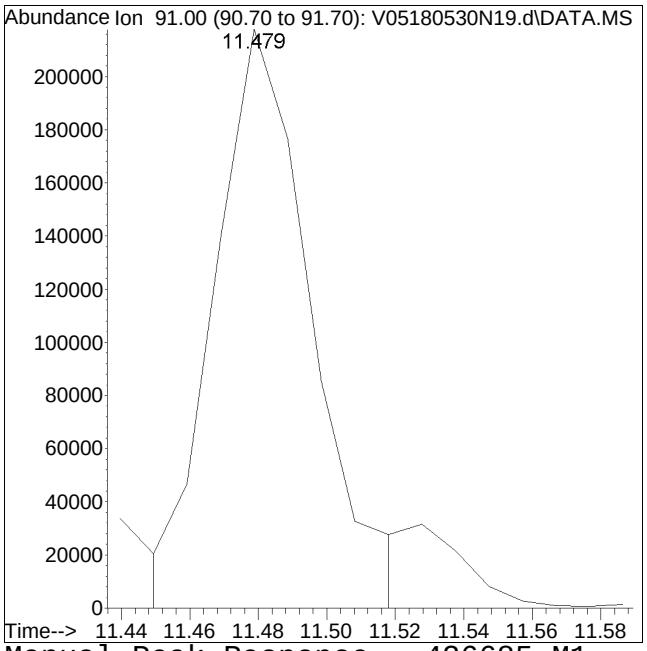
Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N19.d
Date Inj'd : 5/31/2018 4:51 am
Sample : C8260STDL3

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 11:56 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 460174



Manual Peak Response = 426685 M1

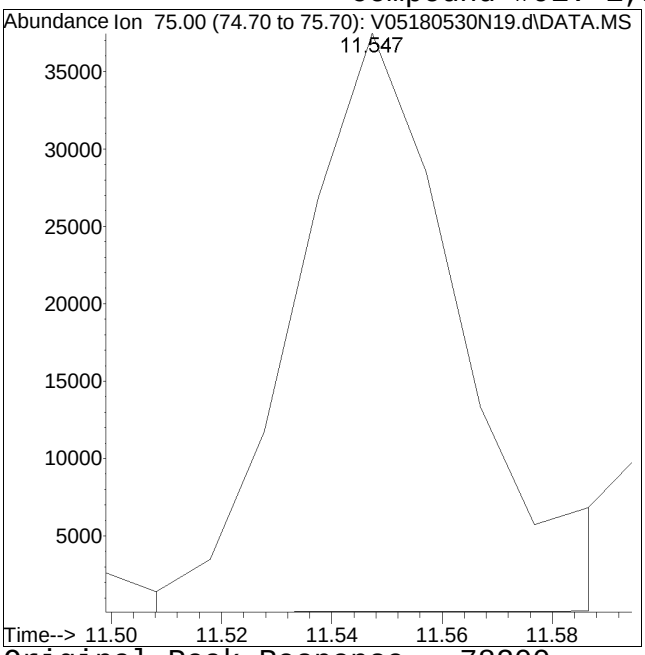
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

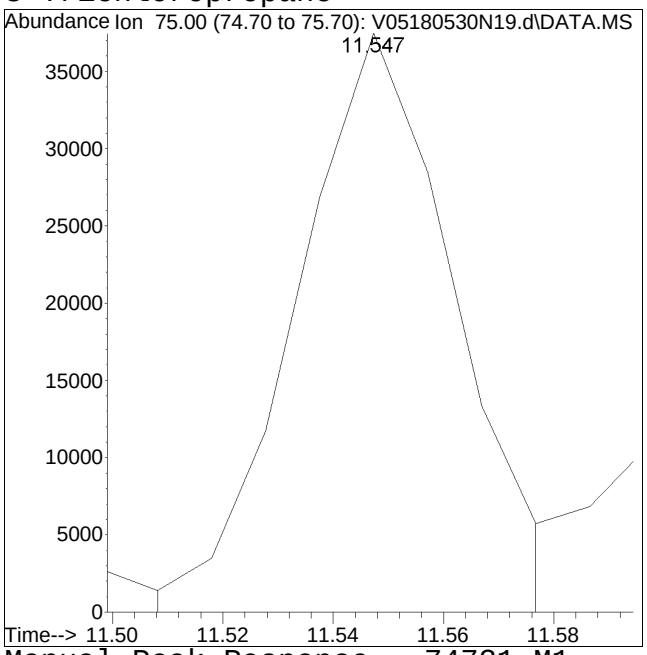
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N19.d
Date Inj'd : 5/31/2018 4:51 am
Sample : C8260STDL3

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 11:56 am

Compound #91: 1,2,3-Trichloropropane





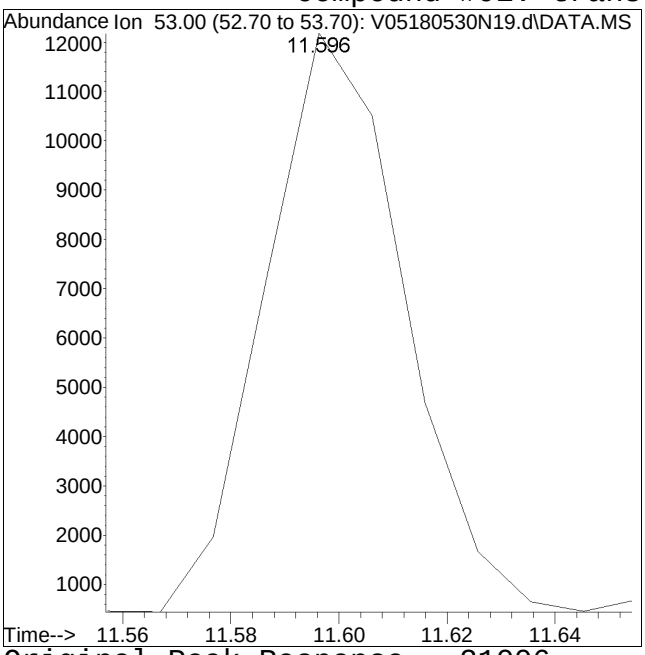
Original Peak Response = 78200 Manual Peak Response = 74731 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

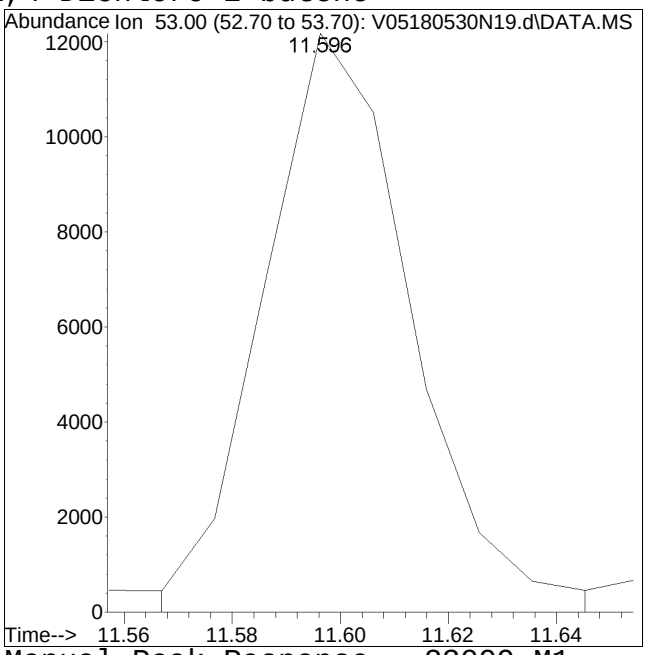
Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180530N19.d
Date Inj'd : 5/31/2018 4:51 am
Sample : C8260STDL3

Method : V105_180530N_8260.m
Operator : VOA105:PD
Instrument : VOA 105
Quant Date : 5/31/2018 11:56 am

Compound #92: trans-1,4-Dichloro-2-butene





Original Peak Response = 21006 Manual Peak Response = 23099 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Continuing Calibration

Continuing Calibration
Form 7

Client	: C.T. Male Associates	**Lab Number**	: L1821938		
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345		
Instrument ID	: VOA105	**Calibration Date**	: 06/14/18 19:05		
Lab File ID	: V05180614N02	**Init. Calib. Date(s)**	: 05/30/18	05/31/18	
Sample No	: WG1126396-2	**Init. Calib. Times**	: 22:10	01:56	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	101	0
Dichlorodifluoromethane	0.145	0.148	-	-2.1	20	92	0
Chloromethane	0.152	0.134	-	11.8	20	85	0
Vinyl chloride	0.159	0.153	-	3.8	20	90	0
Bromomethane	0.069	0.047*	-	31.9*	20	69	0
Chloroethane	0.081	0.082*	-	-1.2	20	97	0
Trichlorofluoromethane	0.248	0.226	-	8.9	20	84	0
Ethyl ether	0.059	0.057	-	3.4	20	97	0
1,1-Dichloroethene	0.155	0.142	-	8.4	20	89	0
Carbon disulfide	0.361	0.337	-	6.6	20	94	0
Freon-113	0.171	0.158	-	7.6	20	84	0
Iodomethane	10	3.739	-	62.6*	20	56	0
Acrolein	0.019	0.017*	-	10.5	20	98	0
Methylene chloride	0.18	0.161	-	10.6	20	88	0
Acetone	10	9.033	-	9.7	20	94	0
trans-1,2-Dichloroethene	0.18	0.162	-	10	20	88	0
Methyl acetate	0.083	0.076*	-	8.4	20	99	0
Methyl tert-butyl ether	0.354	0.338	-	4.5	20	98	0
tert-Butyl alcohol	0.00604	0.00717*	-	-18.7	20	127	0
Diisopropyl ether	0.593	0.556	-	6.2	20	92	0
1,1-Dichloroethane	0.35	0.308	-	12	20	86	0
Halothane	0.142	0.128	-	9.9	20	87	0
Acrylonitrile	0.036	0.034*	-	5.6	20	97	0
Ethyl tert-butyl ether	0.453	0.434	-	4.2	20	96	0
Vinyl acetate	0.355	0.344	-	3.1	20	96	0
cis-1,2-Dichloroethene	0.2	0.181	-	9.5	20	90	0
2,2-Dichloropropane	0.257	0.239	-	7	20	91	0
Bromochloromethane	0.092	0.086	-	6.5	20	90	0
Cyclohexane	0.268	0.25	-	6.7	20	85	0
Chloroform	0.351	0.306	-	12.8	20	84	0
Ethyl acetate	0.112	0.111	-	0.9	20	103	0
Carbon tetrachloride	0.268	0.244	-	9	20	85	0
Tetrahydrofuran	0.033	0.031*	-	6.1	20	100	0
Dibromofluoromethane	0.269	0.261	-	3	20	98	0
1,1,1-Trichloroethane	0.322	0.285	-	11.5	20	85	0
2-Butanone	0.046	0.044*	-	4.3	20	98	0
1,1-Dichloropropene	0.26	0.235	-	9.6	20	85	0
Benzene	0.737	0.665	-	9.8	20	86	0
tert-Amyl methyl ether	0.365	0.345	-	5.5	20	98	0
1,2-Dichloroethane-d4	0.319	0.308	-	3.4	20	95	0
1,2-Dichloroethane	0.268	0.239	-	10.8	20	88	0
Methyl cyclohexane	0.221	0.203	-	8.1	20	86	0
Trichloroethene	0.207	0.175*	-	15.5	20	84	0
Dibromomethane	0.101	0.093	-	7.9	20	92	0
1,2-Dichloropropane	0.185	0.168	-	9.2	20	90	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: C.T. Male Associates	**Lab Number**	: L1821938		
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345		
Instrument ID	: VOA105	**Calibration Date**	: 06/14/18 19:05		
Lab File ID	: V05180614N02	**Init. Calib. Date(s)**	: 05/30/18	05/31/18	
Sample No	: WG1126396-2	**Init. Calib. Times**	: 22:10	01:56	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2-Chloroethyl vinyl ether	0.076	0.057	-	25*	20	79	0
Bromodichloromethane	0.248	0.219	-	11.7	20	88	0
1,4-Dioxane	0.00084	0.0011*	-	-31*	20	112	0
cis-1,3-Dichloropropene	0.273	0.253	-	7.3	20	91	0
Chlorobenzene-d5	1	1	-	0	20	103	0
Toluene-d8	1.299	1.278	-	1.6	20	100	0
Toluene	0.627	0.558	-	11	20	87	0
4-Methyl-2-pentanone	0.043	0.039*	-	9.3	20	103	-.01
Tetrachloroethene	0.268	0.24	-	10.4	20	87	0
trans-1,3-Dichloropropene	10	8.094	-	19.1	20	92	0
Ethyl methacrylate	0.224	0.197	-	12.1	20	97	-.01
1,1,2-Trichloroethane	0.16	0.15	-	6.3	20	89	0
Chlorodibromomethane	10	7.786	-	22.1*	20	92	0
1,3-Dichloropropane	0.313	0.286	-	8.6	20	90	0
1,2-Dibromoethane	0.172	0.161	-	6.4	20	93	0
2-Hexanone	0.083	0.073*	-	12	20	101	0
Chlorobenzene	0.705	0.622	-	11.8	20	88	0
Ethylbenzene	1.194	1.052	-	11.9	20	86	0
1,1,1,2-Tetrachloroethane	0.248	0.221	-	10.9	20	89	0
p/m Xylene	0.452	0.412	-	8.8	20	86	0
o Xylene	0.422	0.388	-	8.1	20	87	0
Styrene	0.679	0.63	-	7.2	20	86	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	101	0
Bromoform	10	7.431	-	25.7*	20	93	0
Isopropylbenzene	2.093	1.917	-	8.4	20	86	0
4-Bromofluorobenzene	0.947	0.96	-	-1.4	20	104	0
Bromobenzene	0.584	0.526	-	9.9	20	90	0
n-Propylbenzene	2.375	2.146	-	9.6	20	85	0
1,4-Dichlorobutane	0.553	0.514	-	7.1	20	91	0
1,1,2,2-Tetrachloroethane	0.345	0.32	-	7.2	20	92	0
4-Ethyltoluene	1.976	1.831	-	7.3	20	88	0
2-Chlorotoluene	1.586	1.358	-	14.4	20	82	0
1,3,5-Trimethylbenzene	1.733	1.6	-	7.7	20	86	0
1,2,3-Trichloropropane	0.308	0.263	-	14.6	20	85	0
trans-1,4-Dichloro-2-buten	0.095	0.062	-	34.7*	20	73	0
4-Chlorotoluene	1.628	1.469	-	9.8	20	86	0
tert-Butylbenzene	1.308	1.215	-	7.1	20	87	0
1,2,4-Trimethylbenzene	1.745	1.652	-	5.3	20	89	0
sec-Butylbenzene	1.702	1.596	-	6.2	20	88	0
p-Isopropyltoluene	1.525	1.498	-	1.8	20	92	0
1,3-Dichlorobenzene	1.029	0.933	-	9.3	20	88	0
1,4-Dichlorobenzene	1.073	0.967	-	9.9	20	89	0
p-Diethylbenzene	0.861	0.809	-	6	20	89	0
n-Butylbenzene	1.281	1.217	-	5	20	89	0
1,2-Dichlorobenzene	0.906	0.83	-	8.4	20	91	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: C.T. Male Associates	**Lab Number**	: L1821938		
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345		
Instrument ID	: VOA105	**Calibration Date**	: 06/14/18 19:05		
Lab File ID	: V05180614N02	**Init. Calib. Date(s)**	: 05/30/18	05/31/18	
Sample No	: WG1126396-2	**Init. Calib. Times**	: 22:10	01:56	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2,4,5-Tetramethylbenzene	1.385	1.238	-	10.6	20	91	0
1,2-Dibromo-3-chloropropan	10	7.704	-	23*	20	101	0
1,3,5-Trichlorobenzene	0.548	0.513	-	6.4	20	92	0
Hexachlorobutadiene	0.189	0.187	-	1.1	20	100	0
1,2,4-Trichlorobenzene	0.426	0.409	-	4	20	98	0
Naphthalene	10	8.704	-	13	20	102	0
1,2,3-Trichlorobenzene	0.284	0.275	-	3.2	20	98	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N02.d
Acq On : 14 Jun 2018 7:05 pm
Operator : VOA105:KD
Sample : WG1126396-2
Misc : WG1126396,ICAL14750
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 20:05:43 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	101	0.00
2	TP	Dichlorodifluoromethane	0.145	0.148	-2.1	92	0.00
3	TP	Chloromethane	0.152	0.134	11.8	85	0.00
4	TC	Vinyl chloride	0.159	0.153	3.8	90	0.00
5	TP	Bromomethane	0.069	0.047#	31.9#	69	0.00
6	TP	Chloroethane	0.081	0.082#	-1.2	97	0.00
7	TP	Trichlorofluoromethane	0.248	0.226	8.9	84	0.00
8	TP	Ethyl ether	0.059	0.057	3.4	97	0.00
10	TC	1,1-Dichloroethene	0.155	0.142	8.4	89	0.00
11	TP	Carbon disulfide	0.361	0.337	6.6	94	0.00
12	TP	Freon-113	0.171	0.158	7.6	84	0.00
13	TP	Iodomethane	* 10.000	3.739	62.6#	56	0.00
14	TP	Acrolein	0.019	0.017#	10.5	98	0.00
15	TP	Methylene chloride	0.180	0.161	10.6	88	0.00
17	TP	Acetone	* 10.000	9.033	9.7	94	0.00
18	TP	trans-1,2-Dichloroethene	0.180	0.162	10.0	88	0.00
19	TP	Methyl acetate	0.083	0.076#	8.4	99	0.00
20	TP	Methyl tert-butyl ether	0.354	0.338	4.5	98	0.00
21	TP	tert-Butyl alcohol	0.00604	0.00717#	-18.7	127	0.00
22	TP	Diisopropyl ether	0.593	0.556	6.2	92	0.00
23	TP	1,1-Dichloroethane	0.350	0.308	12.0	86	0.00
24	TP	Halothane	0.142	0.128	9.9	87	0.00
25	TP	Acrylonitrile	0.036	0.034#	5.6	97	0.00
26	TP	Ethyl tert-butyl ether	0.453	0.434	4.2	96	0.00
27	TP	Vinyl acetate	0.355	0.344	3.1	96	0.00
28	TP	cis-1,2-Dichloroethene	0.200	0.181	9.5	90	0.00
29	TP	2,2-Dichloropropane	0.257	0.239	7.0	91	0.00
30	TP	Bromochloromethane	0.092	0.086	6.5	90	0.00
31	TP	Cyclohexane	0.268	0.250	6.7	85	0.00
32	TC	Chloroform	0.351	0.306	12.8	84	0.00
33	TP	Ethyl acetate	0.112	0.111	0.9	103	0.00
34	TP	Carbon tetrachloride	0.268	0.244	9.0	85	0.00
35	TP	Tetrahydrofuran	0.033	0.031#	6.1	100	0.00
36	S	Dibromofluoromethane	0.269	0.261	3.0	98	0.00
37	TP	1,1,1-Trichloroethane	0.322	0.285	11.5	85	0.00
39	TP	2-Butanone	0.046	0.044#	4.3	98	0.00
40	TP	1,1-Dichloropropene	0.260	0.235	9.6	85	0.00
41	TP	Benzene	0.737	0.665	9.8	86	0.00
42	TP	tert-Amyl methyl ether	0.365	0.345	5.5	98	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N02.d
Acq On : 14 Jun 2018 7:05 pm
Operator : VOA105:KD
Sample : WG1126396-2
Misc : WG1126396,ICAL14750
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 20:05:43 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	S	1,2-Dichloroethane-d4	0.319	0.308	3.4	95	0.00
44	TP	1,2-Dichloroethane	0.268	0.239	10.8	88	0.00
47	TP	Methyl cyclohexane	0.221	0.203	8.1	86	0.00
48	TP	Trichloroethene	0.207	0.175#	15.5	84	0.00
50	TP	Dibromomethane	0.101	0.093	7.9	92	0.00
51	TC	1,2-Dichloropropane	0.185	0.168	9.2	90	0.00
53	TP	2-Chloroethyl vinyl ether	0.076	0.057	25.0#	79	0.00
54	TP	Bromodichloromethane	0.248	0.219	11.7	88	0.00
57	TP	1,4-Dioxane	0.00084	0.00110#	-31.0#	112	0.00
58	TP	cis-1,3-Dichloropropene	0.273	0.253	7.3	91	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
60	S	Toluene-d8	1.299	1.278	1.6	100	0.00
61	TC	Toluene	0.627	0.558	11.0	87	0.00
62	TP	4-Methyl-2-pentanone	0.043	0.039#	9.3	103	-0.01
63	TP	Tetrachloroethene	0.268	0.240	10.4	87	0.00
65	TP	trans-1,3-Dichloropropene	* 10.000	8.094	19.1	92	0.00
67	TP	Ethyl methacrylate	0.224	0.197	12.1	97	-0.01
68	TP	1,1,2-Trichloroethane	0.160	0.150	6.3	89	0.00
69	TP	Chlorodibromomethane	* 10.000	7.786	22.1#	92	0.00
70	TP	1,3-Dichloropropane	0.313	0.286	8.6	90	0.00
71	TP	1,2-Dibromoethane	0.172	0.161	6.4	93	0.00
72	TP	2-Hexanone	0.083	0.073#	12.0	101	0.00
73	TP	Chlorobenzene	0.705	0.622	11.8	88	0.00
74	TC	Ethylbenzene	1.194	1.052	11.9	86	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.248	0.221	10.9	89	0.00
76	TP	p/m Xylene	0.452	0.412	8.8	86	0.00
77	TP	o Xylene	0.422	0.388	8.1	87	0.00
78	TP	Styrene	0.679	0.630	7.2	86	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
80	TP	Bromoform	* 10.000	7.431	25.7#	93	0.00
82	TP	Isopropylbenzene	2.093	1.917	8.4	86	0.00
83	S	4-Bromofluorobenzene	0.947	0.960	-1.4	104	0.00
84	TP	Bromobenzene	0.584	0.526	9.9	90	0.00
85	TP	n-Propylbenzene	2.375	2.146	9.6	85	0.00
86	TP	1,4-Dichlorobutane	0.553	0.514	7.1	91	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.345	0.320	7.2	92	0.00
88	TP	4-Ethyltoluene	1.976	1.831	7.3	88	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N02.d
Acq On : 14 Jun 2018 7:05 pm
Operator : VOA105:KD
Sample : WG1126396-2
Misc : WG1126396,ICAL14750
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 20:05:43 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
89 TP	2-Chlorotoluene		1.586	1.358	14.4	82	0.00
90 TP	1,3,5-Trimethylbenzene		1.733	1.600	7.7	86	0.00
91 TP	1,2,3-Trichloropropane		0.308	0.263	14.6	85	0.00
92 TP	trans-1,4-Dichloro-2-butene		0.095	0.062	34.7#	73	0.00
93 TP	4-Chlorotoluene		1.628	1.469	9.8	86	0.00
94 TP	tert-Butylbenzene		1.308	1.215	7.1	87	0.00
97 TP	1,2,4-Trimethylbenzene		1.745	1.652	5.3	89	0.00
98 TP	sec-Butylbenzene		1.702	1.596	6.2	88	0.00
99 TP	p-Isopropyltoluene		1.525	1.498	1.8	92	0.00
100 TP	1,3-Dichlorobenzene		1.029	0.933	9.3	88	0.00
101 TP	1,4-Dichlorobenzene		1.073	0.967	9.9	89	0.00
102 TP	p-Diethylbenzene		0.861	0.809	6.0	89	0.00
103 TP	n-Butylbenzene		1.281	1.217	5.0	89	0.00
104 TP	1,2-Dichlorobenzene		0.906	0.830	8.4	91	0.00
105 TP	1,2,4,5-Tetramethylbenzene		1.385	1.238	10.6	91	0.00
106 TP	1,2-Dibromo-3-chloropropane	*	10.000	7.704	23.0#	101	0.00
107 TP	1,3,5-Trichlorobenzene		0.548	0.513	6.4	92	0.00
108 TP	Hexachlorobutadiene		0.189	0.187	1.1	100	0.00
109 TP	1,2,4-Trichlorobenzene		0.426	0.409	4.0	98	0.00
110 TP	Naphthalene	*	10.000	8.704	13.0	102	0.00
111 TP	1,2,3-Trichlorobenzene		0.284	0.275	3.2	98	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 12 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N02.d
Acq On : 14 Jun 2018 7:05 pm
Operator : VOA105:KD
Sample : WG1126396-2
Misc : WG1126396,ICAL14750
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 20:05:43 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.154	96	682856	10.000	ug/L	0.00
Standard Area 1 = 682856			Recovery = 100.00%			
59) Chlorobenzene-d5	9.686	117	526943	10.000	ug/L	0.00
Standard Area 1 = 526943			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.361	152	267847	10.000	ug/L	0.00
Standard Area 1 = 267847			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.342	113	178565	9.737	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.37%			
43) 1,2-Dichloroethane-d4	5.870	65	210608	9.680	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.80%			
60) Toluene-d8	7.836	98	673470	9.839	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.39%			
83) 4-Bromofluorobenzene	11.165	95	257055	10.137	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.37%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.713	85	100802	10.168	ug/L	99
3) Chloromethane	1.909	50	91318	8.792	ug/L	99
4) Vinyl chloride	1.997	62	104620	9.610	ug/L	87
5) Bromomethane	2.320	94	31881	6.764	ug/L	93
6) Chloroethane	2.437	64	55734	10.099	ug/L	94
7) Trichlorofluoromethane	2.574	101	154114	9.091	ug/L	98
8) Ethyl ether	2.877	74	39081	9.674	ug/L	96
10) 1,1-Dichloroethene	3.073	96	96706	9.161	ug/L	92
11) Carbon disulfide	3.102	76	230254	9.338	ug/L	99
12) Freon-113	3.112	101	107735	9.211	ug/L	76
13) Iodomethane	3.220	142	34181	3.739	ug/L	91
14) Acrolein	3.415	56	11763	9.082	ug/L	96
15) Methylene chloride	3.640	84	110223	8.991	ug/L	97
17) Acetone	3.689	43	20698	9.033	ug/L	91
18) trans-1,2-Dichloroethene	3.797	96	110513	8.981	ug/L	95
19) Methyl acetate	3.806	43	51903	9.205	ug/L	95
20) Methyl tert-butyl ether	3.885	73	231072	9.548	ug/L	97
21) tert-Butyl alcohol	3.992	59	24492	59.419	ug/L	91
22) Diisopropyl ether	4.237	45	379385	9.372	ug/L	97
23) 1,1-Dichloroethane	4.384	63	210389	8.813	ug/L	98
24) Halothane	4.432	117	87232	8.974	ug/L	100

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N02.d
Acq On : 14 Jun 2018 7:05 pm
Operator : VOA105:KD
Sample : WG1126396-2
Misc : WG1126396,ICAL14750
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 20:05:43 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.442	53	23371	9.489	ug/L		94
26) Ethyl tert-butyl ether	4.589	59	296384	9.587	ug/L		93
27) Vinyl acetate	4.618	43	234669	9.668	ug/L		99
28) cis-1,2-Dichloroethene	4.902	96	123678	9.059	ug/L		95
29) 2,2-Dichloropropane	5.000	77	162987	9.278	ug/L		98
30) Bromochloromethane	5.098	128	58745	9.305	ug/L		88
31) Cyclohexane	5.088	56	170811	9.324	ug/L		96
32) Chloroform	5.166	83	209049	8.725	ug/L		99
33) Ethyl acetate	5.274	43	75462	9.842	ug/L		97
34) Carbon tetrachloride	5.293	117	166814	9.108	ug/L		99
35) Tetrahydrofuran	5.322	42	20956M3	9.279	ug/L		
37) 1,1,1-Trichloroethane	5.362	97	194813	8.865	ug/L		98
39) 2-Butanone	5.469	43	29722	9.401	ug/L		90
40) 1,1-Dichloropropene	5.479	75	160343	9.039	ug/L		97
41) Benzene	5.733	78	453979	9.019	ug/L		99
42) tert-Amyl methyl ether	5.831	73	235735	9.460	ug/L		96
44) 1,2-Dichloroethane	5.948	62	163412	8.932	ug/L		99
47) Methyl cyclohexane	6.301	83	138564	9.197	ug/L		95
48) Trichloroethene	6.330	95	119463	8.466	ug/L		90
50) Dibromomethane	6.780	93	63220	9.146	ug/L		93
51) 1,2-Dichloropropane	6.878	63	114704	9.067	ug/L		98
53) 2-Chloroethyl vinyl ether	7.562	63	38780	7.483	ug/L	#	81
54) Bromodichloromethane	6.946	83	149243	8.805	ug/L		99
57) 1,4-Dioxane	7.161	88	37454	652.330	ug/L		92
58) cis-1,3-Dichloropropene	7.641	75	172491	9.265	ug/L		99
61) Toluene	7.895	92	294227	8.900	ug/L		98
62) 4-Methyl-2-pentanone	8.335	58	20505	9.073	ug/L		96
63) Tetrachloroethene	8.335	166	126530	8.968	ug/L		93
65) trans-1,3-Dichloropropene	8.394	75	144436	8.094	ug/L		99
67) Ethyl methacrylate	8.560	69	103855	8.790	ug/L		99
68) 1,1,2-Trichloroethane	8.579	83	79247	9.421	ug/L		95
69) Chlorodibromomethane	8.785	129	97829	7.786	ug/L		99
70) 1,3-Dichloropropane	8.903	76	150700	9.144	ug/L		97
71) 1,2-Dibromoethane	9.069	107	84726	9.331	ug/L		99
72) 2-Hexanone	9.343	43	38654	8.789	ug/L		97
73) Chlorobenzene	9.706	112	327859	8.830	ug/L		93
74) Ethylbenzene	9.735	91	554348	8.808	ug/L		97
75) 1,1,1,2-Tetrachloroethane	9.794	131	116349	8.899	ug/L		98
76) p/m Xylene	9.921	106	434306	18.244	ug/L		93
77) o Xylene	10.460	106	409337	18.426	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N02.d
Acq On : 14 Jun 2018 7:05 pm
Operator : VOA105:KD
Sample : WG1126396-2
Misc : WG1126396,ICAL14750
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 20:05:43 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.529	104	663774	18.549	ug/L		98
80) Bromoform	10.568	173	48338	7.431	ug/L		98
82) Isopropylbenzene	10.832	105	513372	9.156	ug/L		99
84) Bromobenzene	11.273	156	141004	9.018	ug/L		100
85) n-Propylbenzene	11.303	91	574795	9.036	ug/L		96
86) 1,4-Dichlorobutane	11.342	55	137600	9.288	ug/L		100
87) 1,1,2,2-Tetrachloroethane	11.410	83	85732	9.290	ug/L		97
88) 4-Ethyltoluene	11.430	105	490520	9.266	ug/L		98
89) 2-Chlorotoluene	11.479	91	363798M3	8.566	ug/L		
90) 1,3,5-Trimethylbenzene	11.528	105	428519	9.234	ug/L		99
91) 1,2,3-Trichloropropane	11.547	75	70362	8.536	ug/L		89
92) trans-1,4-Dichloro-2-b...	11.596	53	16516	6.509	ug/L	#	47
93) 4-Chlorotoluene	11.665	91	393525	9.023	ug/L		94
94) tert-Butylbenzene	11.861	119	325464	9.288	ug/L		96
97) 1,2,4-Trimethylbenzene	11.939	105	442514	9.469	ug/L		97
98) sec-Butylbenzene	12.047	105	427364	9.376	ug/L		96
99) p-Isopropyltoluene	12.204	119	401178	9.819	ug/L		96
100) 1,3-Dichlorobenzene	12.282	146	249884	9.063	ug/L		98
101) 1,4-Dichlorobenzene	12.370	146	259113	9.015	ug/L		98
102) p-Diethylbenzene	12.576	119	216667	9.391	ug/L		96
103) n-Butylbenzene	12.635	91	325869	9.494	ug/L		96
104) 1,2-Dichlorobenzene	12.792	146	222426	9.161	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.360	119	331640	8.937	ug/L		96
106) 1,2-Dibromo-3-chloropr...	13.575	155	9188	7.704	ug/L		98
107) 1,3,5-Trichlorobenzene	13.595	180	137468	9.371	ug/L		96
108) Hexachlorobutadiene	14.163	225	50022	9.904	ug/L		99
109) 1,2,4-Trichlorobenzene	14.192	180	109528	9.607	ug/L		98
110) Naphthalene	14.486	128	179620	8.704	ug/L		100
111) 1,2,3-Trichlorobenzene	14.653	180	73579	9.674	ug/L		98

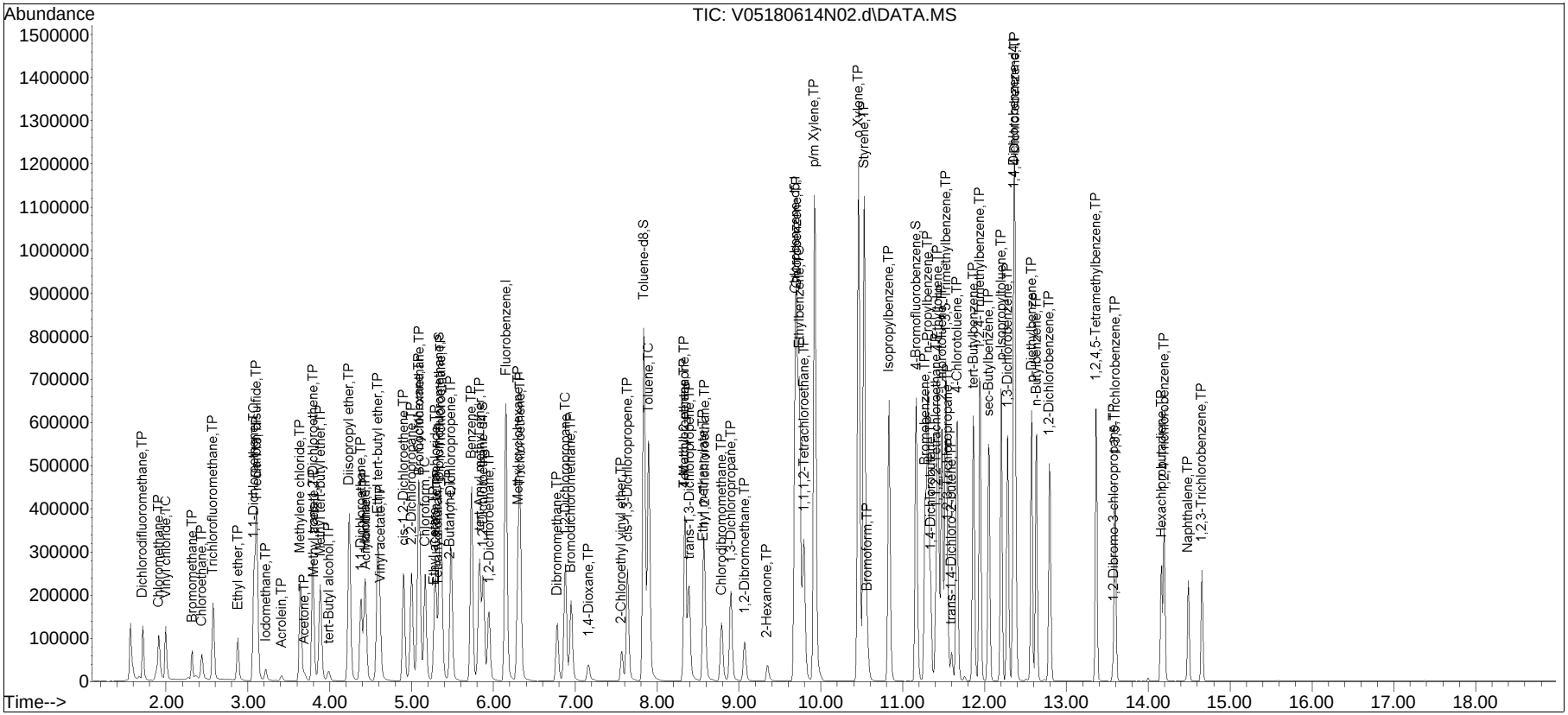
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N02.d
Acq On : 14 Jun 2018 7:05 pm
Operator : VOA105:KD
Sample : WG1126396-2
Misc : WG1126396,ICAL14750
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 20:05:43 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

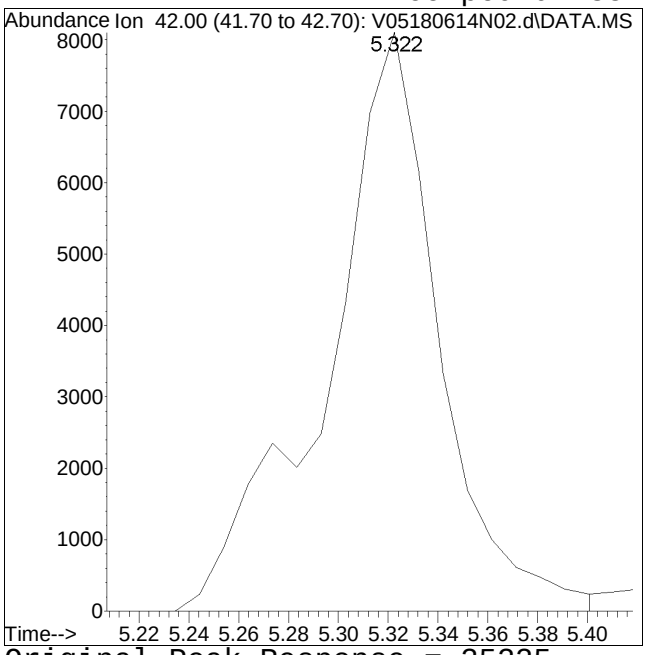
Sub List : 8260-Curve - Megamix plus Diox80614N\V05180614N02.d•

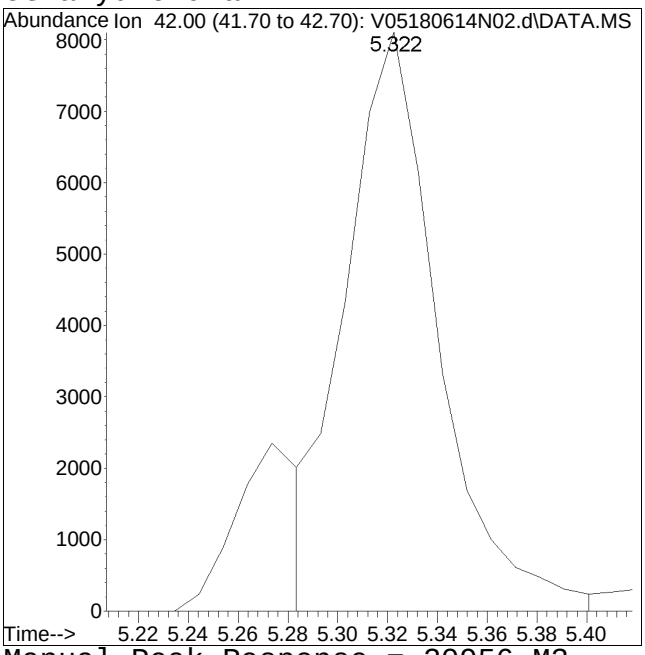


Manual Integration Report

Data Path : I:\VOLATILES\VOA105\2018\1QMethod : V105_180530N_8260.m
Data File : V05180614N02.d Operator : VOA105:KD
Date Inj'd : 6/14/2018 7:05 pm Instrument : VOA 105
Sample : WG1126396-2 Quant Date : 6/14/2018 8:05 pm

Compound #35: Tetrahydrofuran





Original Peak Response = 25225 Manual Peak Response = 20956 M3

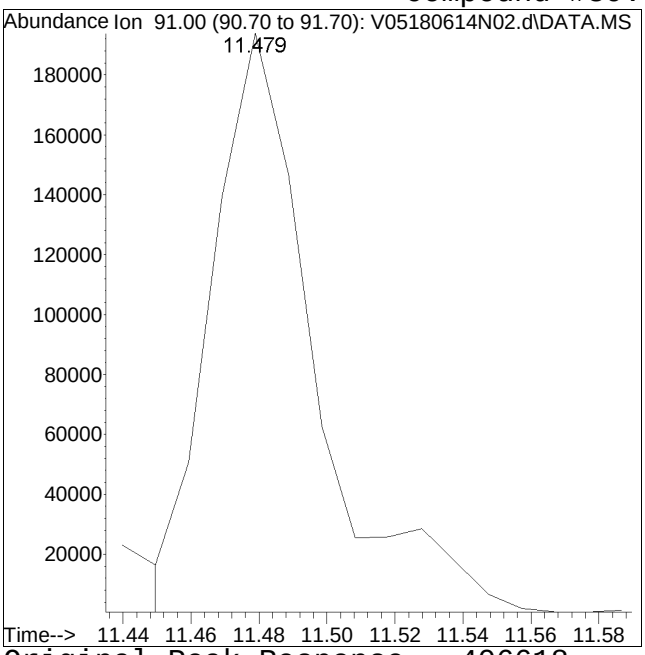
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

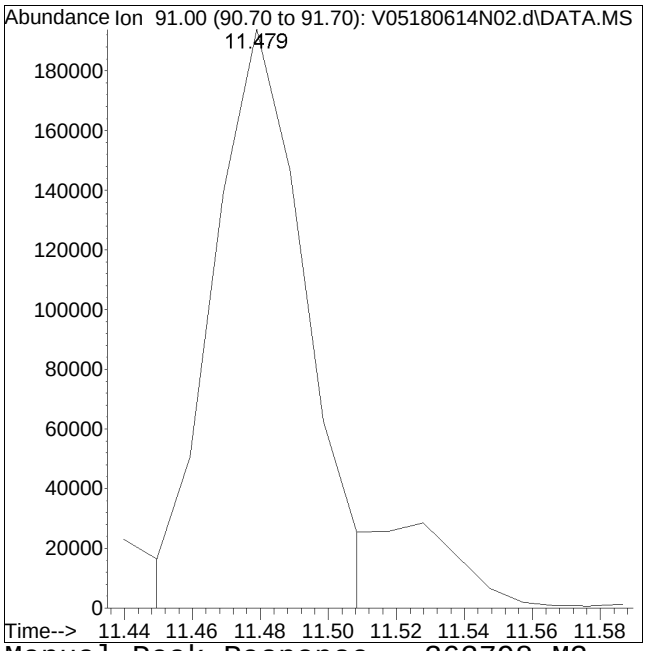
Data Path : I:\VOLATILES\VOA105\2018\1Q
Data File : V05180614N02.d
Date Inj'd : 6/14/2018 7:05 pm
Sample : WG1126396-2

Method : V105_180530N_8260.m
Operator : VOA105:KD
Instrument : VOA 105
Quant Date : 6/14/2018 8:05 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 406618



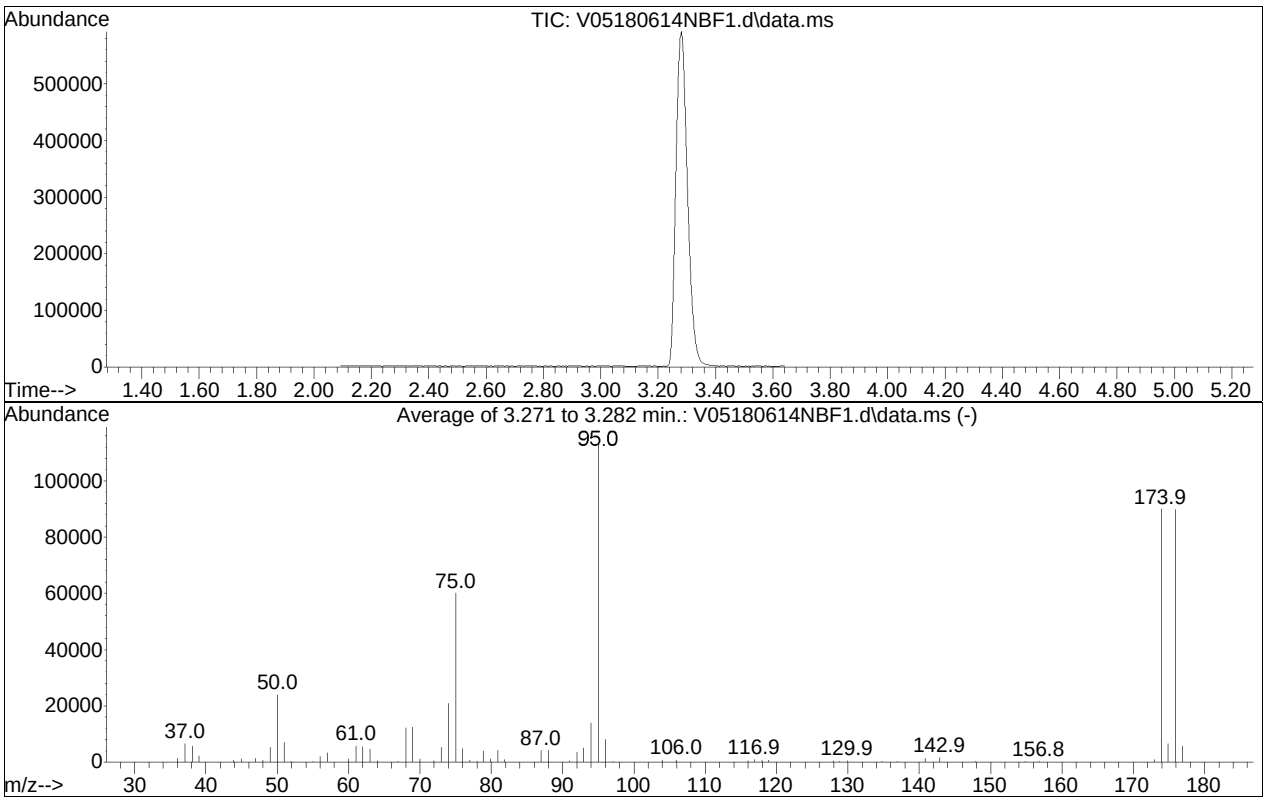
Manual Peak Response = 363798 M3

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.

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614NBF1.d
Acq On : 14 Jun 2018 6:21 pm
Operator : VOA105:KD
Sample : WG1126396-1
Misc : WG1126396
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Thu May 31 11:54:28 2018



AutoFind: Scans 217, 218, 219; Background Corrected with Scan 207

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.0	23875	PASS
75	95	30	60	53.0	60184	PASS
95	95	100	100	100.0	113616	PASS
96	95	5	9	7.1	8122	PASS
173	174	0.00	2	1.0	872	PASS
174	95	50	100	79.3	90120	PASS
175	174	5	9	7.3	6547	PASS
176	174	95	101	99.7	89843	PASS
177	176	5	9	6.4	5745	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N05.d
Acq On : 14 Jun 2018 8:20 pm
Operator : VOA105:KD
Sample : WG1126396-5,31,10,10
Misc : WG1126396,ICAL14750
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 21:54:12 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	6.154	96	668972	10.000 ug/L	0.00
Standard Area 1 = 682856			Recovery =	97.97%	
59) Chlorobenzene-d5	9.686	117	509836	10.000 ug/L	0.00
Standard Area 1 = 526943			Recovery =	96.75%	
79) 1,4-Dichlorobenzene-d4	12.361	152	249765	10.000 ug/L	0.00
Standard Area 1 = 267847			Recovery =	93.25%	
System Monitoring Compounds					
36) Dibromofluoromethane	5.342	113	169765	9.450 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	94.50%	
43) 1,2-Dichloroethane-d4	5.870	65	200078	9.387 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	93.87%	
60) Toluene-d8	7.836	98	651804	9.842 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.42%	
83) 4-Bromofluorobenzene	11.165	95	237659	10.051 ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.51%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	0.000		0	N.D. d	
4) Vinyl chloride	1.997	62	187	N.D.	
5) Bromomethane	2.320	94	144	N.D.	
6) Chloroethane	0.000		0	N.D. d	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	3.102	76	3543	0.147 ug/L #	80
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.650	84	720	N.D.	
17) Acetone	3.689	43	735	Below Cal #	52
18) trans-1,2-Dichloroethene	3.797	96	451	N.D.	
19) Methyl acetate	0.000		0	N.D. d	
20) Methyl tert-butyl ether	0.000		0	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	0.000		0	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
31) Cyclohexane	0.000		0	N.D.	
32) Chloroform	0.000		0	N.D.	
34) Carbon tetrachloride	0.000		0	N.D.	

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N05.d
Acq On : 14 Jun 2018 8:20 pm
Operator : VOA105:KD
Sample : WG1126396-5,31,10,10
Misc : WG1126396,ICAL14750
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 21:54:12 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0	N.D.		
39)	2-Butanone	0.000		0	N.D.		
41)	Benzene	0.000		0	N.D.		
44)	1,2-Dichloroethane	5.948	62	609	N.D.		
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	6.330	95	667	N.D.		
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
57)	1,4-Dioxane	7.171	88	653	11.609	ug/L #	70
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	7.914	92	3035	0.095	ug/L	91
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	0.000		0	N.D.		
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	0.000		0	N.D.		
73)	Chlorobenzene	9.706	112	96	N.D.		
74)	Ethylbenzene	9.745	91	670	N.D.		
76)	p/m Xylene	9.931	106	521	N.D.		
77)	o Xylene	10.470	106	306	N.D.		
78)	Styrene	10.548	104	110	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	10.832	105	718	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	12.292	146	577	N.D.		
101)	1,4-Dichlorobenzene	12.380	146	1011	N.D.		
104)	1,2-Dichlorobenzene	12.801	146	413	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	14.202	180	1111	0.105	ug/L #	77
111)	1,2,3-Trichlorobenzene	14.663	180	1478	0.208	ug/L	89

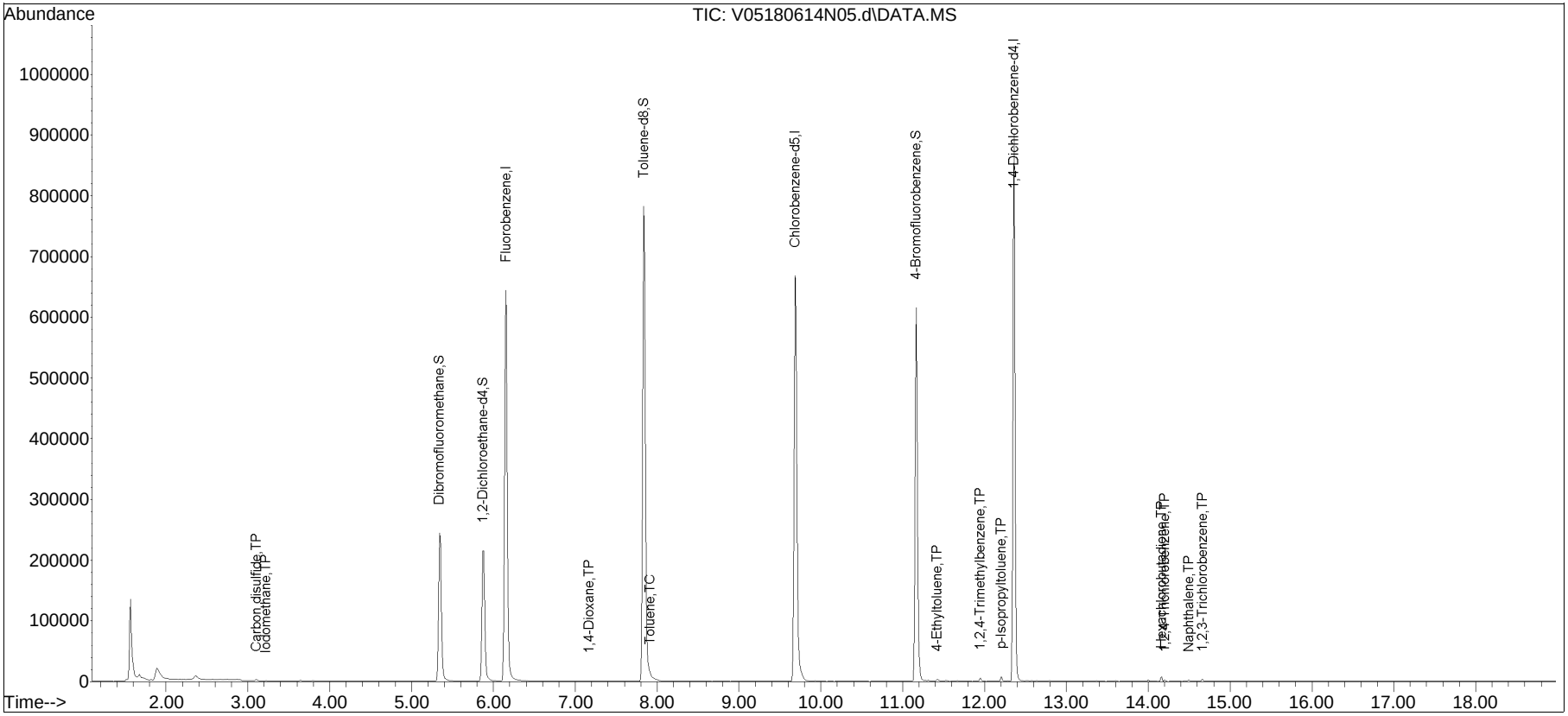
(#) = qualifier out of range (m) = manual integration (+) = signals summed

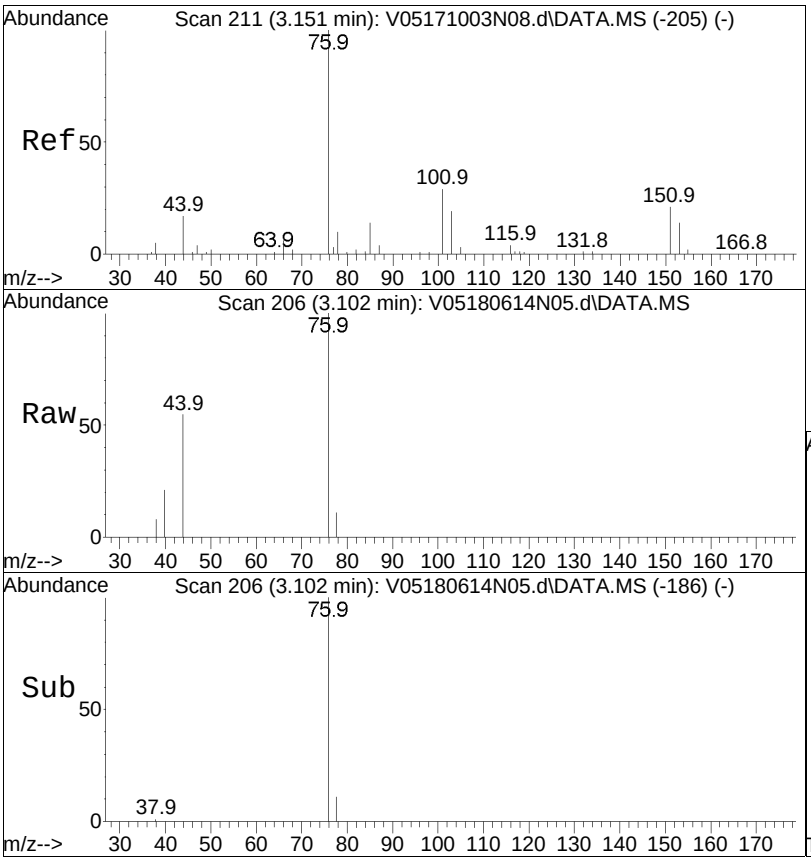
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N05.d
Acq On : 14 Jun 2018 8:20 pm
Operator : VOA105:KD
Sample : WG1126396-5,31,10,10
Misc : WG1126396,ICAL14750
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 21:54:12 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox80614N\V05180614N02.d•

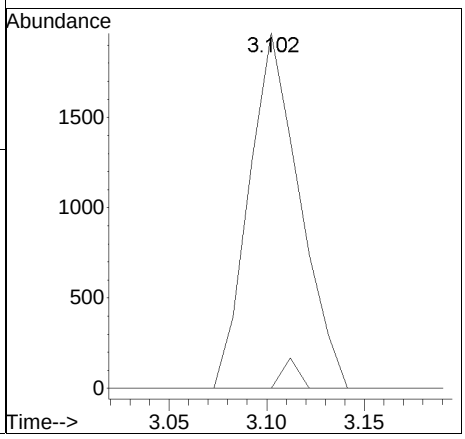


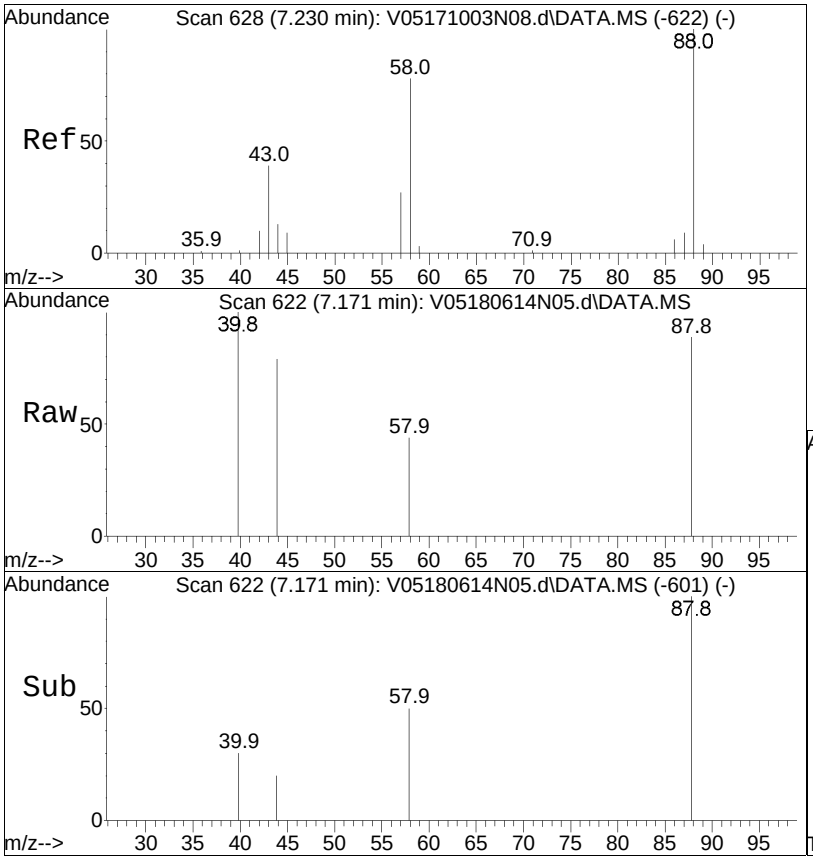


#11
Carbon disulfide
Concen: 0.15 ug/L
RT: 3.102 min Scan# 206
Delta R.T. 0.000 min
Lab File: V05180614N05.d
Acq: 14 Jun 2018 8:20 pm

Tgt Ion: 76 Resp: 3543

Ion	Ratio	Lower	Upper
76	100		
78	2.8	6.7	13.9#

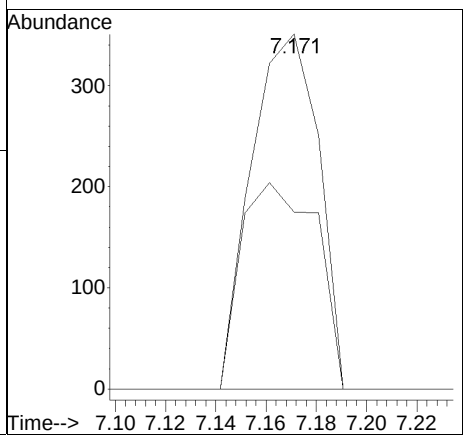


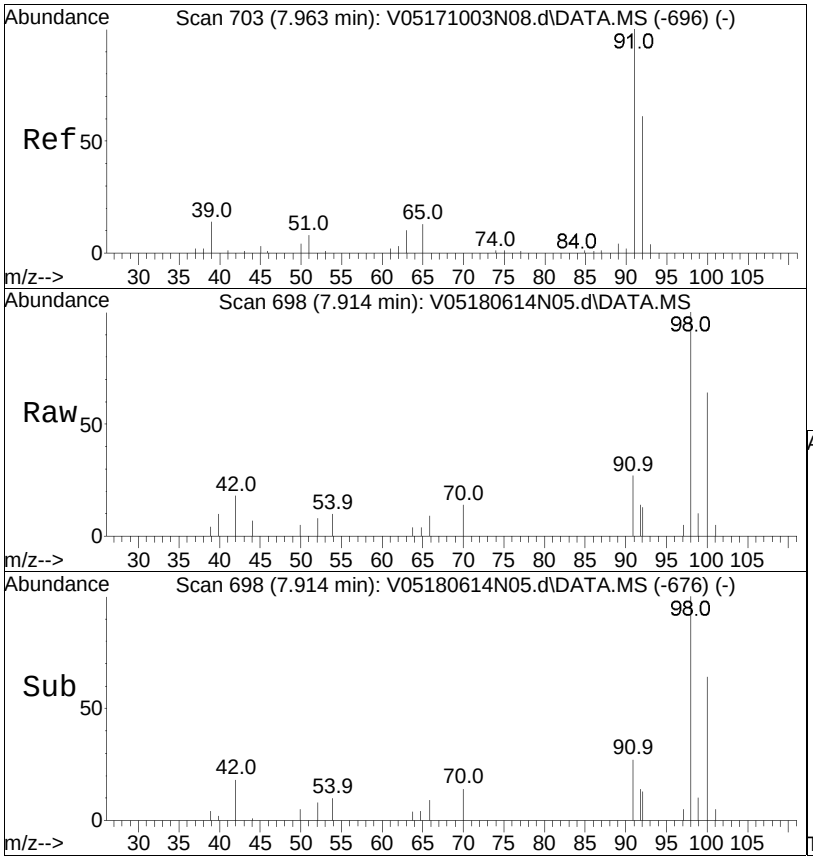


#57
1,4-Dioxane
Concen: 11.61 ug/L
RT: 7.171 min Scan# 622
Delta R.T. 0.010 min
Lab File: V05180614N05.d
Acq: 14 Jun 2018 8:20 pm

Tgt Ion: 88 Resp: 653

Ion	Ratio	Lower	Upper
88	100		
58	65.4	61.5	92.3
43	0.0	30.5	45.7#

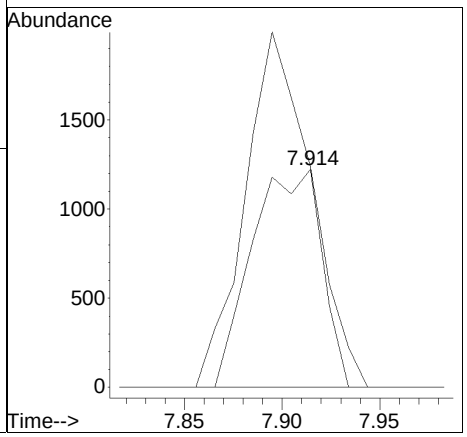


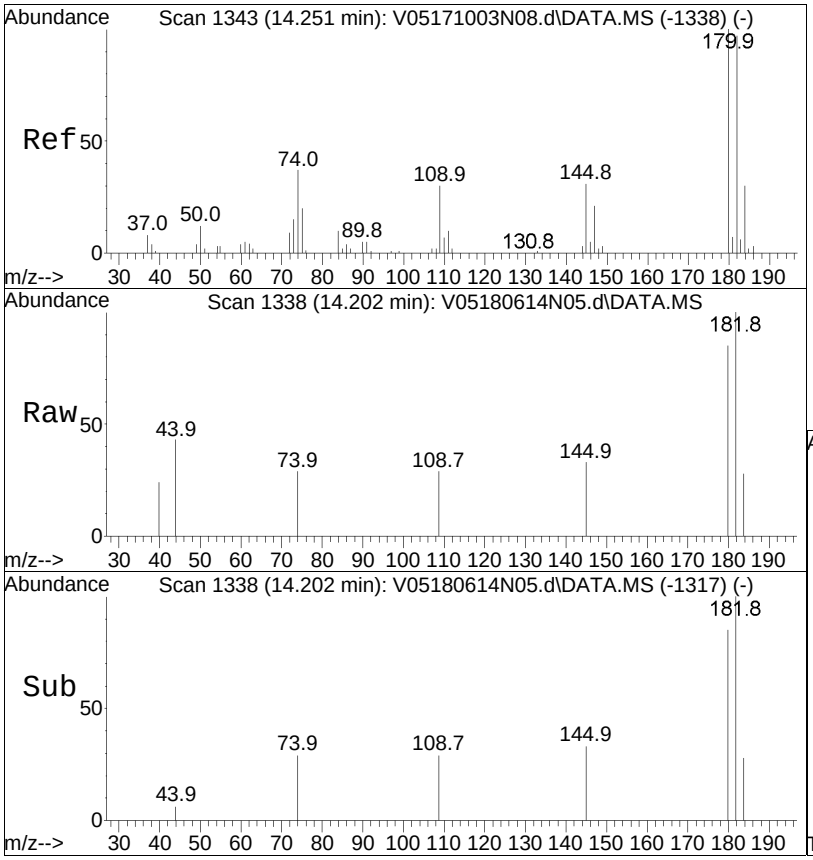


#61
Toluene
Concen: 0.09 ug/L
RT: 7.914 min Scan# 698
Delta R.T. 0.020 min
Lab File: V05180614N05.d
Acq: 14 Jun 2018 8:20 pm

Tgt Ion: 92 Resp: 3035

Ion	Ratio	Lower	Upper
92	100		
91	154.7	133.0	199.4

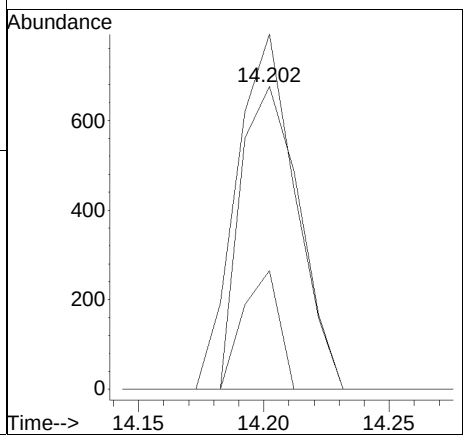


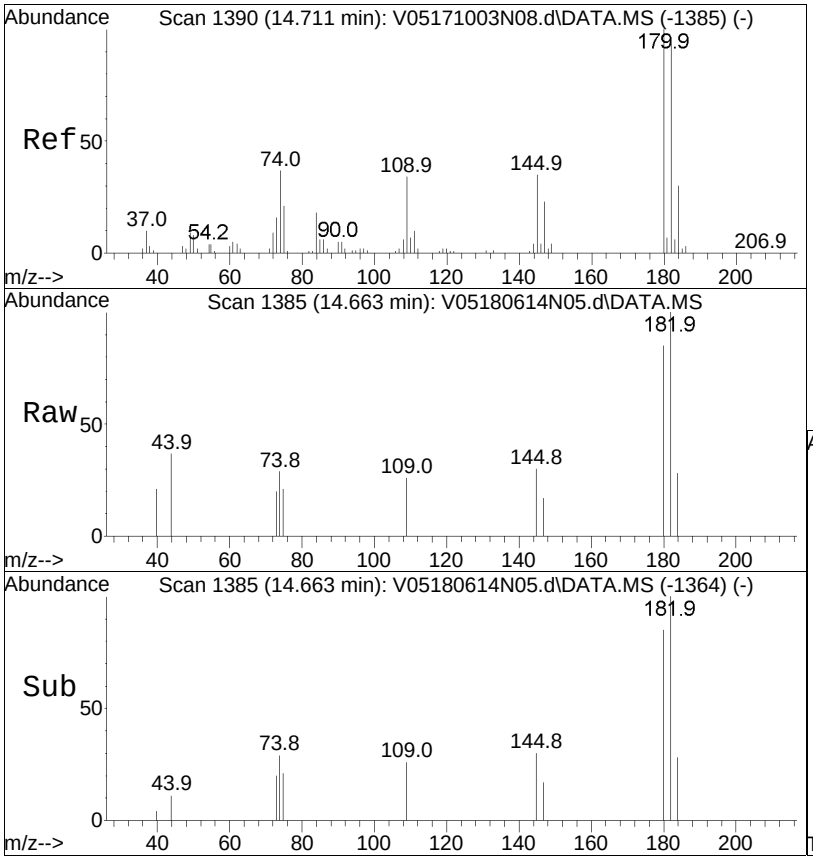


#109
1,2,4-Trichlorobenzene
Concen: 0.10 ug/L
RT: 14.202 min Scan# 1338
Delta R.T. 0.010 min
Lab File: V05180614N05.d
Acq: 14 Jun 2018 8:20 pm

Tgt Ion:180 Resp: 1111

Ion	Ratio	Lower	Upper
180	100		
182	117.0	76.3	114.5#
145	24.0	31.0	46.4#

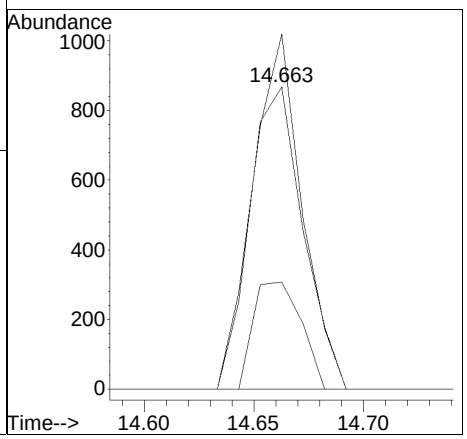




#111
1,2,3-Trichlorobenzene
Concen: 0.21 ug/L
RT: 14.663 min Scan# 1385
Delta R.T. 0.010 min
Lab File: V05180614N05.d
Acq: 14 Jun 2018 8:20 pm

Tgt Ion:180 Resp: 1478

Ion	Ratio	Lower	Upper
180	100		
182	107.8	76.2	114.2
145	31.6	28.2	42.2



Manual Integration Report

Data Path	: I:\VOLATILES\VOA105\2018\1Q	Method	: V105_180530N_8260.m
Data File	: V05180614N05.d	Operator	: VOA105:KD
Date Inj'd	: 6/14/2018 8:20 pm	Instrument	: VOA 105
Sample	: WG1126396-5,31,10,10	Quant Date	: 6/14/2018 9:53 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N02.d
Acq On : 14 Jun 2018 7:05 pm
Operator : VOA105:KD
Sample : WG1126396-3,31,10,10
Misc : WG1126396,ICAL14750
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 20:05:43 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.154	96	682856	10.000	ug/L	0.00
Standard Area 1 = 682856			Recovery = 100.00%			
59) Chlorobenzene-d5	9.686	117	526943	10.000	ug/L	0.00
Standard Area 1 = 526943			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.361	152	267847	10.000	ug/L	0.00
Standard Area 1 = 267847			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.342	113	178565	9.737	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.37%			
43) 1,2-Dichloroethane-d4	5.870	65	210608	9.680	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.80%			
60) Toluene-d8	7.836	98	673470	9.839	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.39%			
83) 4-Bromofluorobenzene	11.165	95	257055	10.137	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.37%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.713	85	100802	10.168	ug/L	99
3) Chloromethane	1.909	50	91318	8.792	ug/L	99
4) Vinyl chloride	1.997	62	104620	9.610	ug/L	87
5) Bromomethane	2.320	94	31881	6.764	ug/L	93
6) Chloroethane	2.437	64	55734	10.099	ug/L	94
7) Trichlorofluoromethane	2.574	101	154114	9.091	ug/L	98
10) 1,1-Dichloroethene	3.073	96	96706	9.161	ug/L	92
11) Carbon disulfide	3.102	76	230254	9.338	ug/L	99
12) Freon-113	3.112	101	107735	9.211	ug/L	76
15) Methylene chloride	3.640	84	110223	8.991	ug/L	97
17) Acetone	3.689	43	20698	9.033	ug/L	91
18) trans-1,2-Dichloroethene	3.797	96	110513	8.981	ug/L	95
19) Methyl acetate	3.806	43	51903	9.205	ug/L	95
20) Methyl tert-butyl ether	3.885	73	231072	9.548	ug/L	97
23) 1,1-Dichloroethane	4.384	63	210389	8.813	ug/L	98
28) cis-1,2-Dichloroethene	4.902	96	123678	9.059	ug/L	95
30) Bromochloromethane	5.098	128	58745	9.305	ug/L	88
31) Cyclohexane	5.088	56	170811	9.324	ug/L	96
32) Chloroform	5.166	83	209049	8.725	ug/L	99
34) Carbon tetrachloride	5.293	117	166814	9.108	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N02.d
Acq On : 14 Jun 2018 7:05 pm
Operator : VOA105:KD
Sample : WG1126396-3,31,10,10
Misc : WG1126396,ICAL14750
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 20:05:43 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	5.362	97	194813	8.865	ug/L	98
39) 2-Butanone	5.469	43	29722	9.401	ug/L	90
41) Benzene	5.733	78	453979	9.019	ug/L	99
44) 1,2-Dichloroethane	5.948	62	163412	8.932	ug/L	99
47) Methyl cyclohexane	6.301	83	138564	9.197	ug/L	95
48) Trichloroethene	6.330	95	119463	8.466	ug/L	90
51) 1,2-Dichloropropane	6.878	63	114704	9.067	ug/L	98
54) Bromodichloromethane	6.946	83	149243	8.805	ug/L	99
57) 1,4-Dioxane	7.161	88	37454	652.330	ug/L	92
58) cis-1,3-Dichloropropene	7.641	75	172491	9.265	ug/L	99
61) Toluene	7.895	92	294227	8.900	ug/L	98
62) 4-Methyl-2-pentanone	8.335	58	20505	9.073	ug/L	96
63) Tetrachloroethene	8.335	166	126530	8.968	ug/L	93
65) trans-1,3-Dichloropropene	8.394	75	144436	8.094	ug/L	99
68) 1,1,2-Trichloroethane	8.579	83	79247	9.421	ug/L	95
69) Chlorodibromomethane	8.785	129	97829	7.786	ug/L	99
71) 1,2-Dibromoethane	9.069	107	84726	9.331	ug/L	99
72) 2-Hexanone	9.343	43	38654	8.789	ug/L	97
73) Chlorobenzene	9.706	112	327859	8.830	ug/L	93
74) Ethylbenzene	9.735	91	554348	8.808	ug/L	97
76) p/m Xylene	9.921	106	434306	18.244	ug/L	93
77) o Xylene	10.460	106	409337	18.426	ug/L	93
78) Styrene	10.529	104	663774	18.549	ug/L	98
80) Bromoform	10.568	173	48338	7.431	ug/L	98
82) Isopropylbenzene	10.832	105	513372	9.156	ug/L	99
87) 1,1,2,2-Tetrachloroethane	11.410	83	85732	9.290	ug/L	97
100) 1,3-Dichlorobenzene	12.282	146	249884	9.063	ug/L	98
101) 1,4-Dichlorobenzene	12.370	146	259113	9.015	ug/L	98
104) 1,2-Dichlorobenzene	12.792	146	222426	9.161	ug/L	98
106) 1,2-Dibromo-3-chloropr...	13.575	155	9188	7.704	ug/L	98
109) 1,2,4-Trichlorobenzene	14.192	180	109528	9.607	ug/L	98
111) 1,2,3-Trichlorobenzene	14.653	180	73579	9.674	ug/L	98

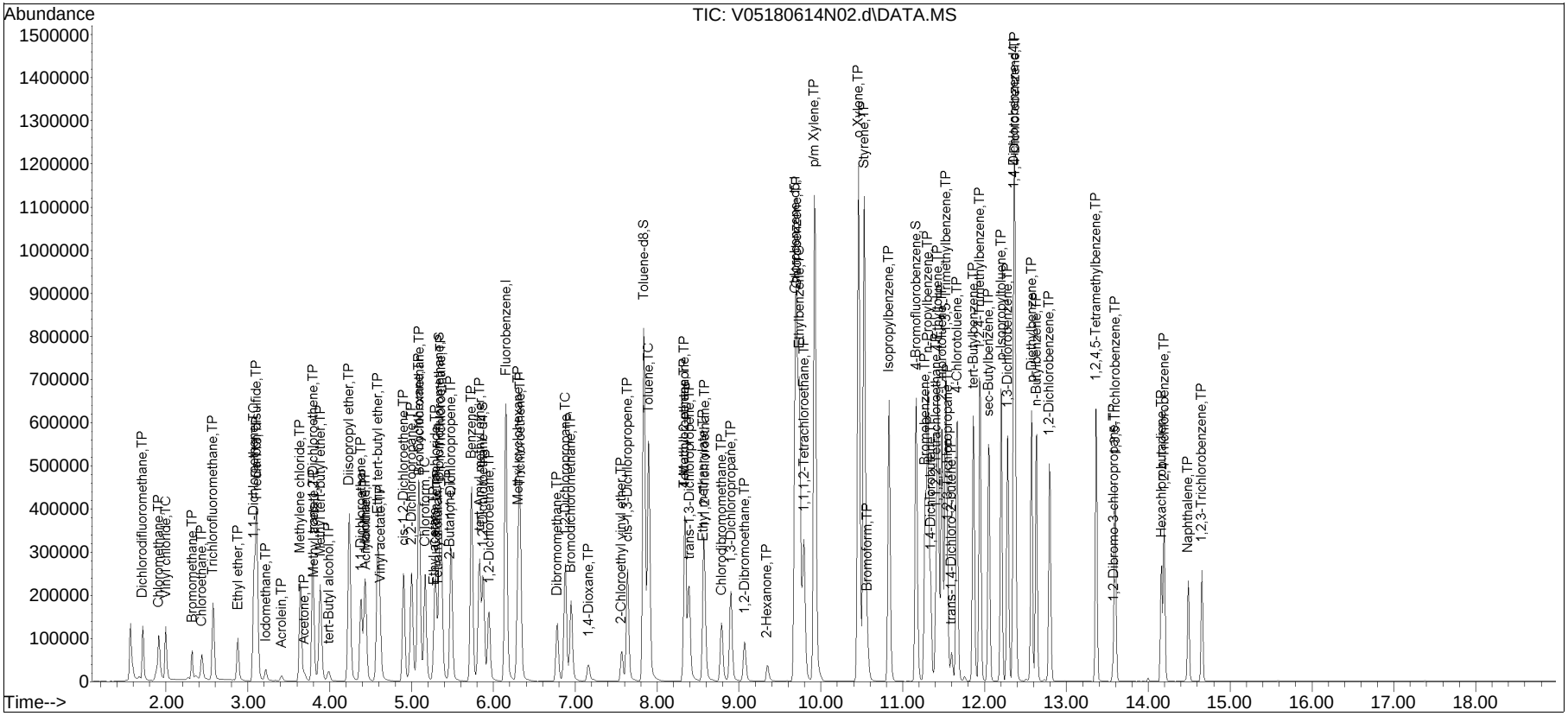
(#) = qualifier out of range (m) = manual integration (+) = signals summed

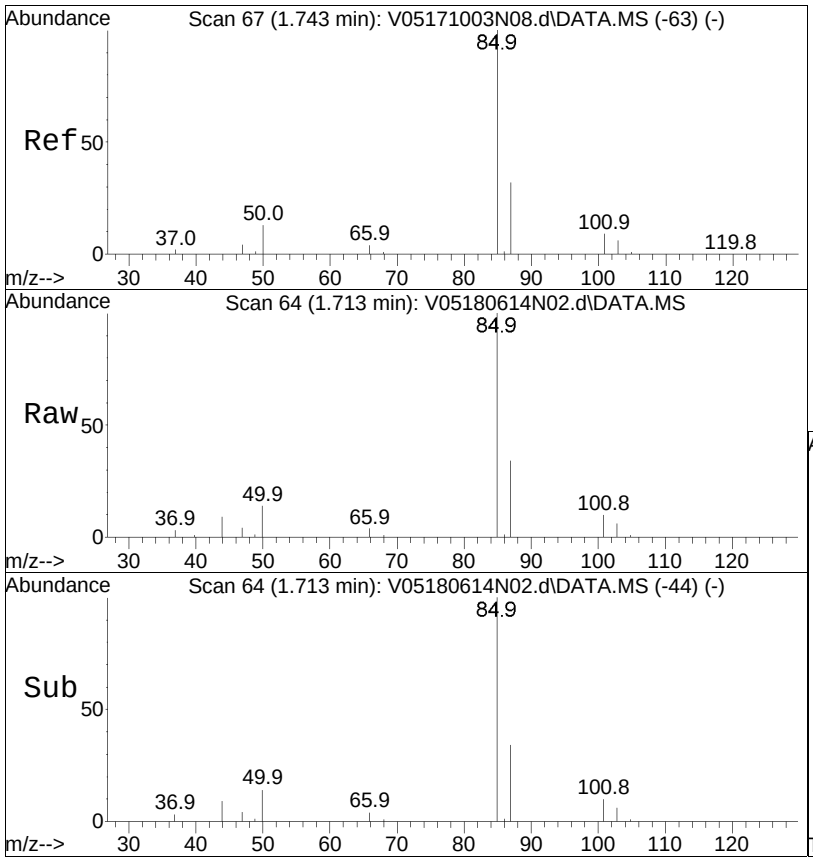
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N02.d
Acq On : 14 Jun 2018 7:05 pm
Operator : VOA105:KD
Sample : WG1126396-3,31,10,10
Misc : WG1126396,ICAL14750
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 20:05:43 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox80614N\V05180614N02.d•

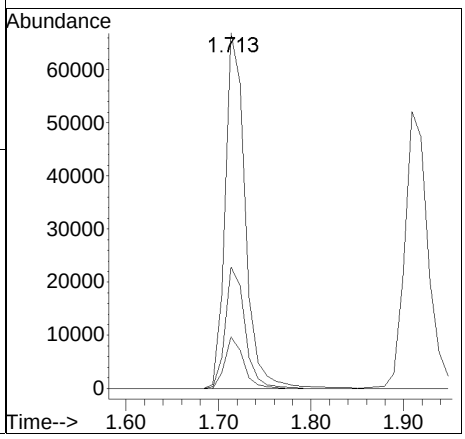


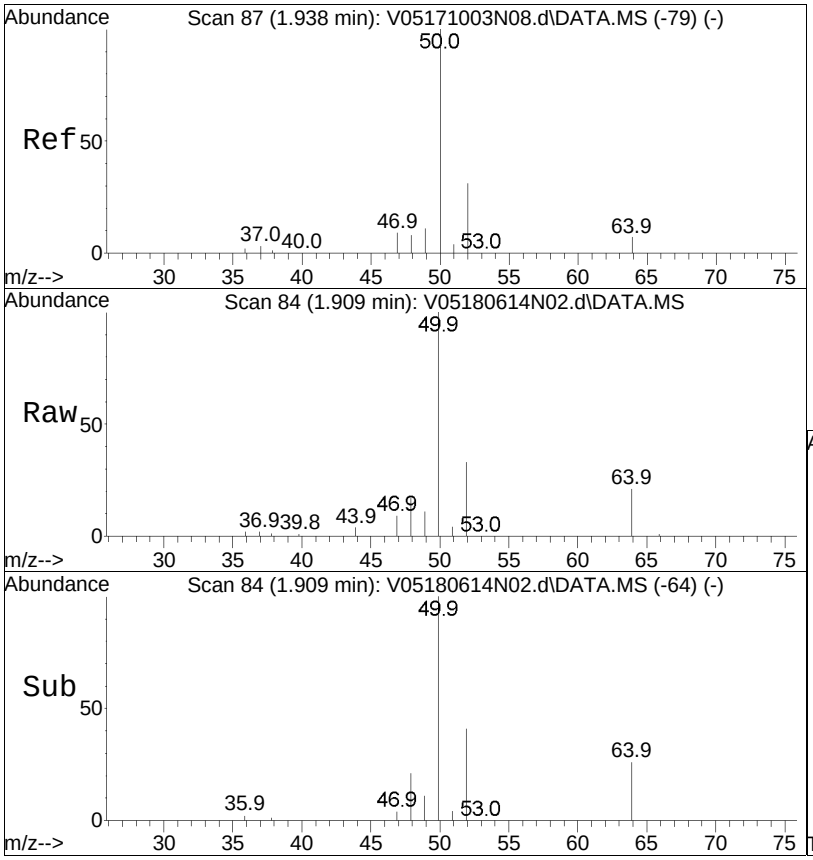


#2
Dichlorodifluoromethane
Concen: 10.17 ug/L
RT: 1.713 min Scan# 64
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 85 Resp: 100802

Ion	Ratio	Lower	Upper
85	100		
87	33.6	21.3	44.1
50	13.4	8.7	18.1

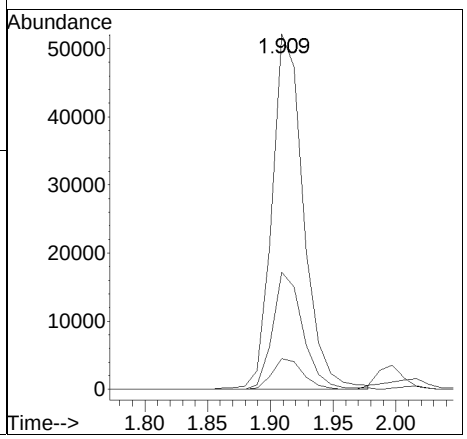


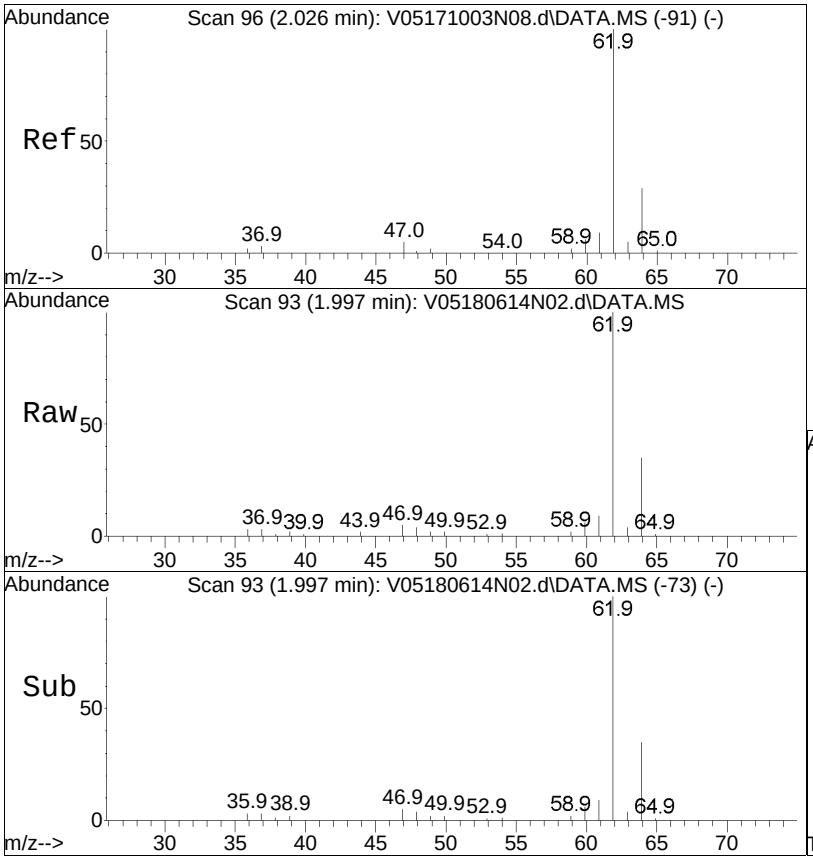


#3
Chloromethane
Concen: 8.79 ug/L
RT: 1.909 min Scan# 84
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 50 Resp: 91318

Ion	Ratio	Lower	Upper
50	100		
52	31.7	11.4	51.4
47	8.5	0.0	28.0

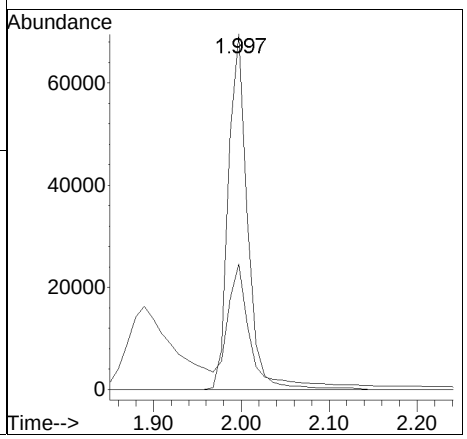


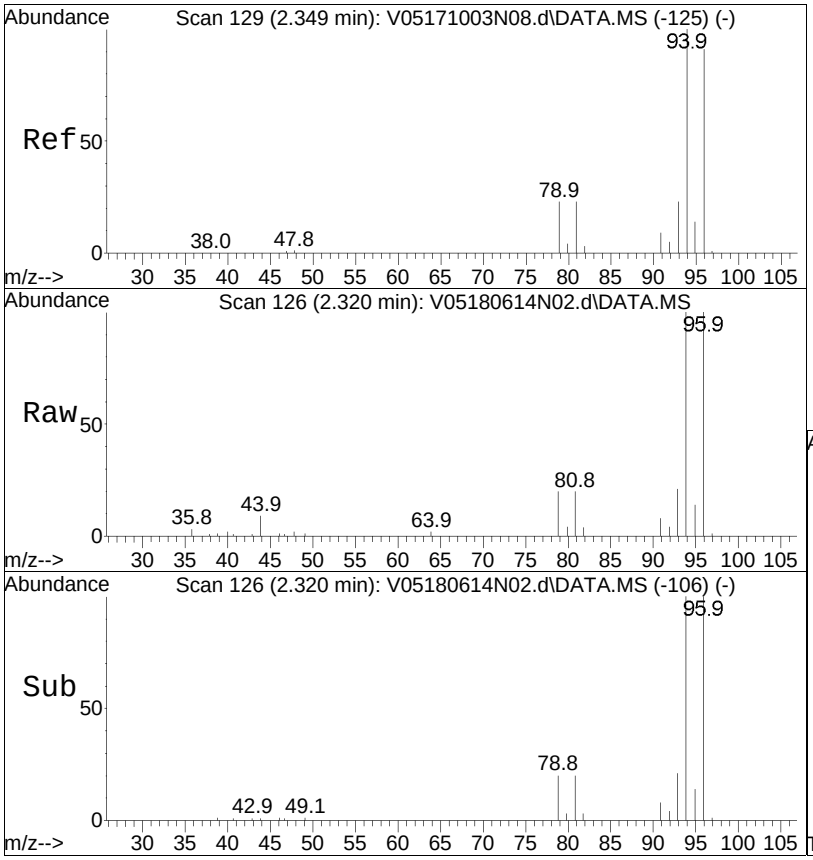


#4
Vinyl chloride
Concen: 9.61 ug/L
RT: 1.997 min Scan# 93
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 62 Resp: 104620

Ion	Ratio	Lower	Upper
62	100		
64	41.2	13.8	53.8

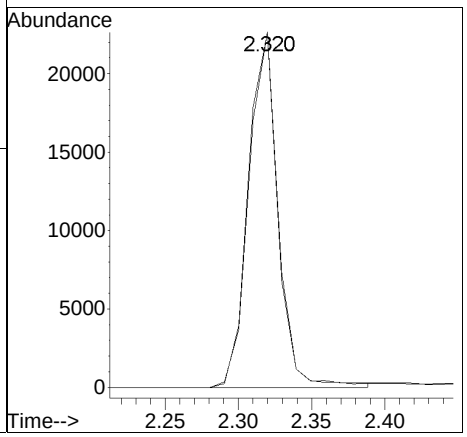


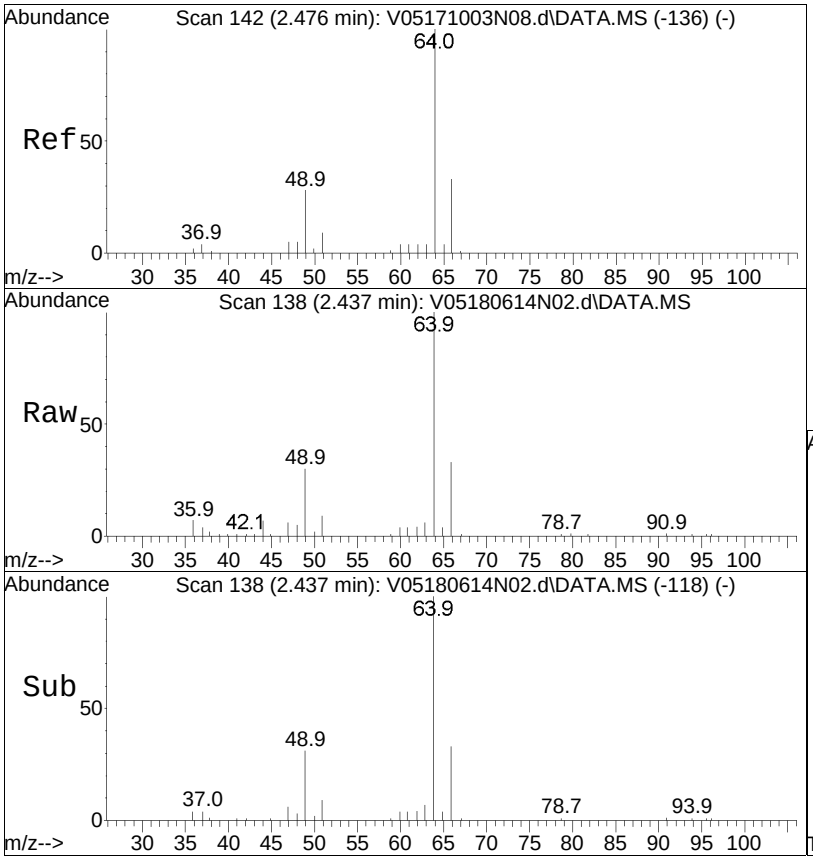


#5
Bromomethane
Concen: 6.76 ug/L
RT: 2.320 min Scan# 126
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 94 Resp: 31881

Ion	Ratio	Lower	Upper
94	100		
96	99.5	73.1	113.1

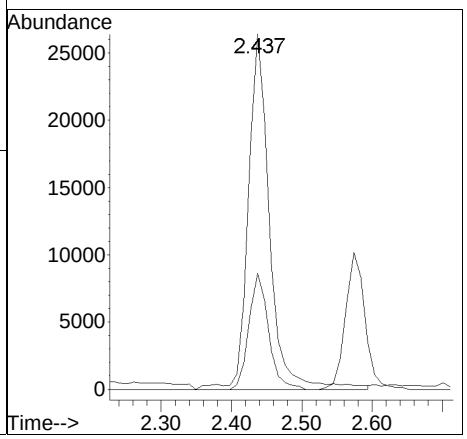


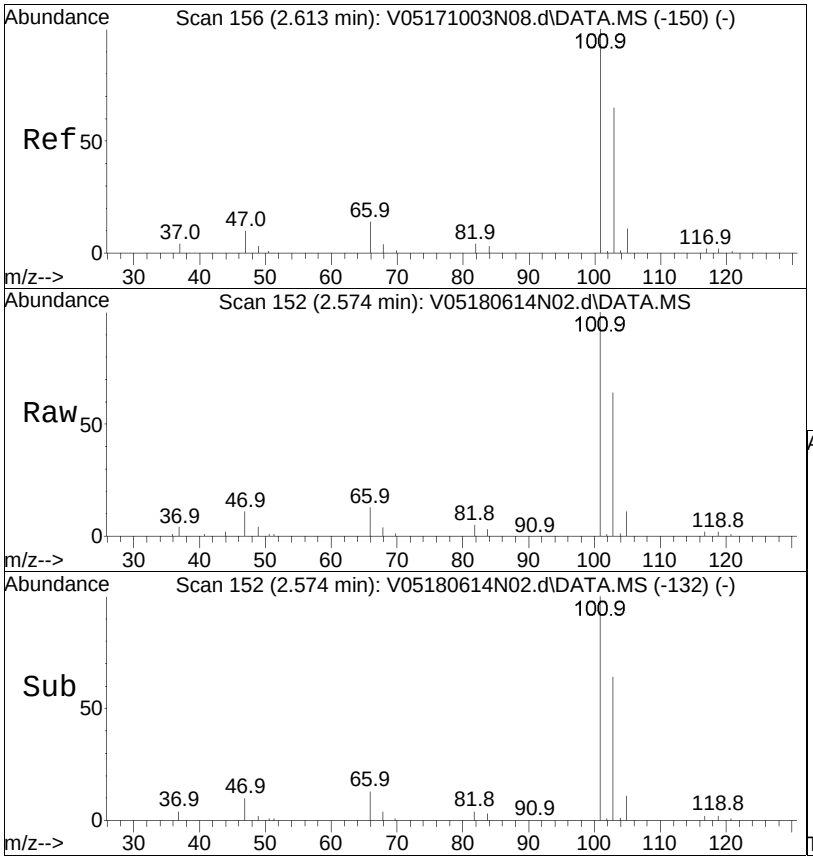


#6
Chloroethane
Concen: 10.10 ug/L
RT: 2.437 min Scan# 138
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 64 Resp: 55734

Ion	Ratio	Lower	Upper
64	100		
66	30.0	13.7	53.7

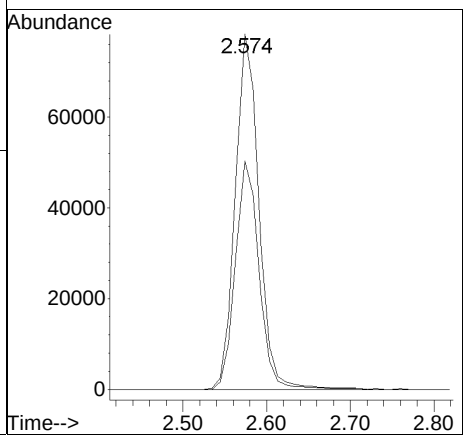


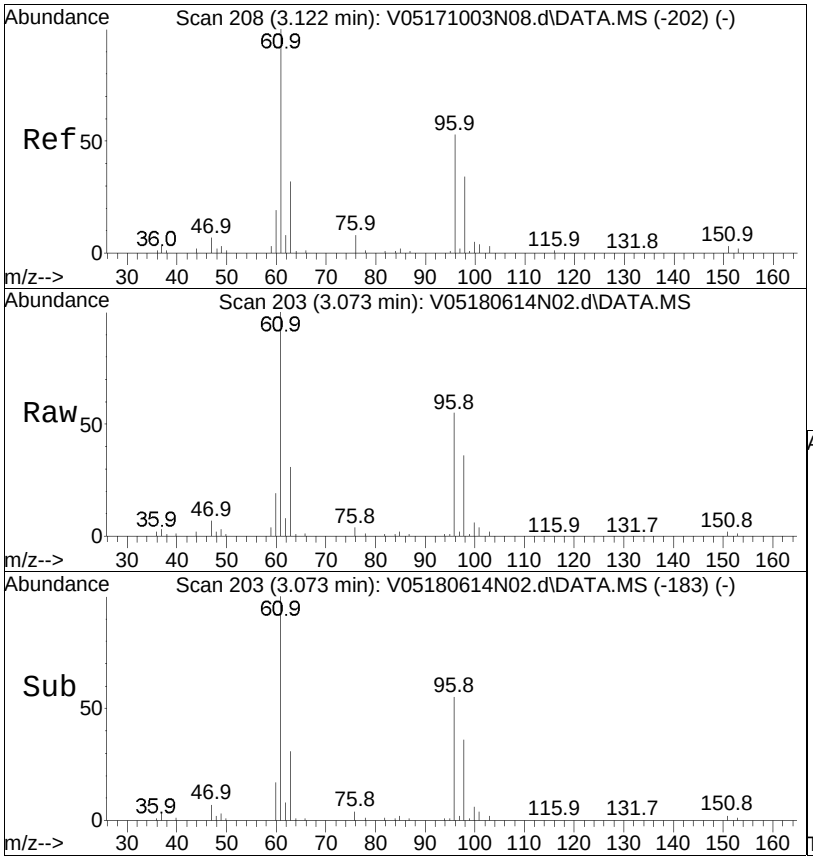


#7
Trichlorofluoromethane
Concen: 9.09 ug/L
RT: 2.574 min Scan# 152
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:101 Resp: 154114

Ion	Ratio	Lower	Upper
101	100		
103	64.4	52.6	79.0

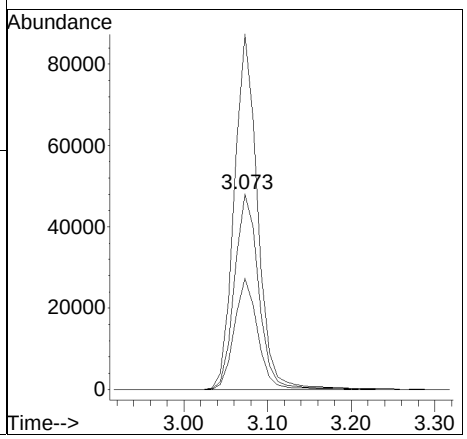


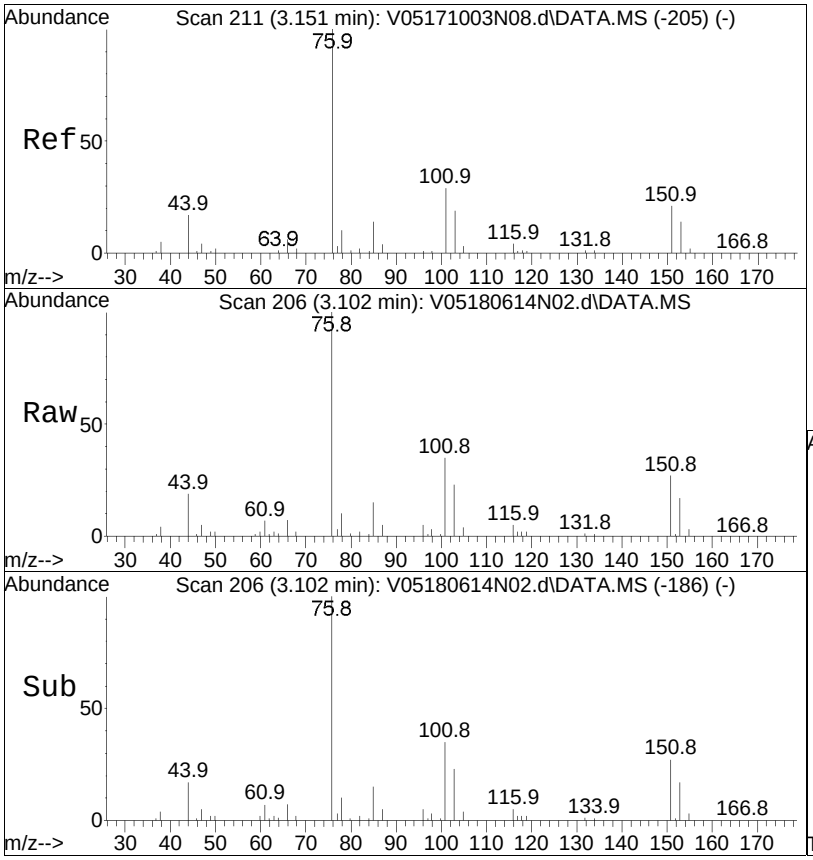


#10
1,1-Dichloroethene
Concen: 9.16 ug/L
RT: 3.073 min Scan# 203
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 96 Resp: 96706

Ion	Ratio	Lower	Upper
96	100		
61	175.7	151.0	226.4
63	55.0	47.7	71.5

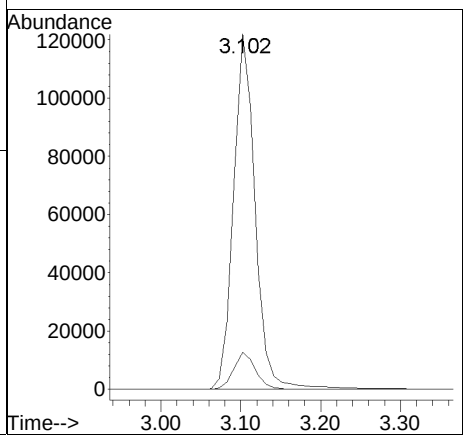


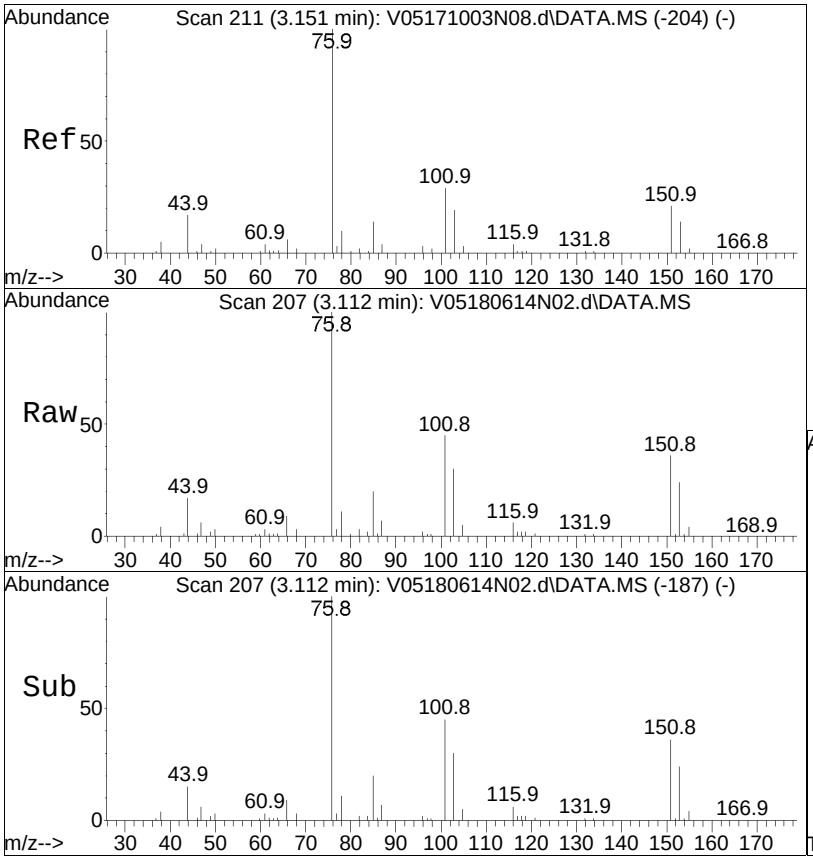


#11
Carbon disulfide
Concen: 9.34 ug/L
RT: 3.102 min Scan# 206
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 76 Resp: 230254

Ion	Ratio	Lower	Upper
76	100		
78	10.6	6.7	13.9

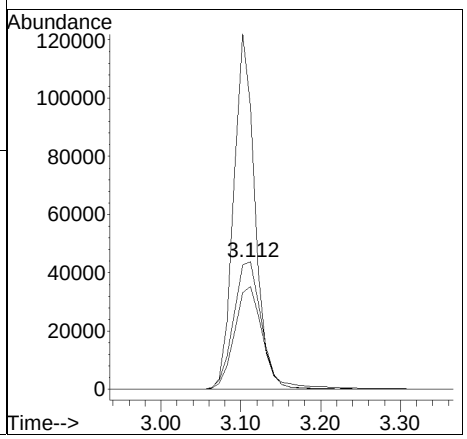


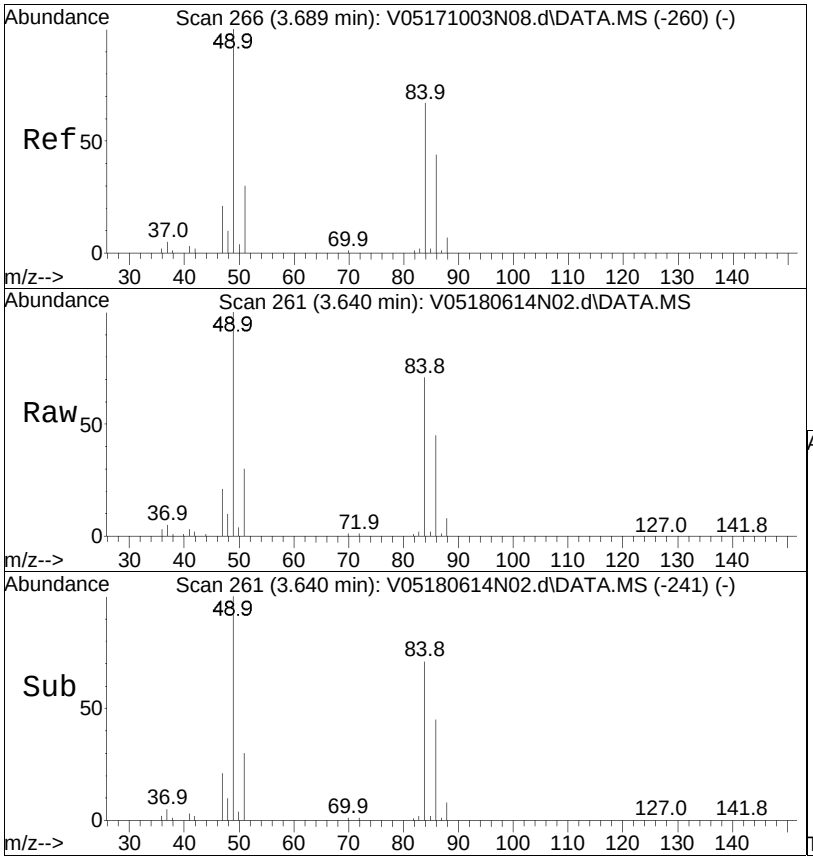


#12
Freon-113
Concen: 9.21 ug/L
RT: 3.112 min Scan# 207
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:101 Resp: 107735

Ion	Ratio	Lower	Upper
101	100		
151	80.2	59.2	88.8
76	213.9	213.0	319.4

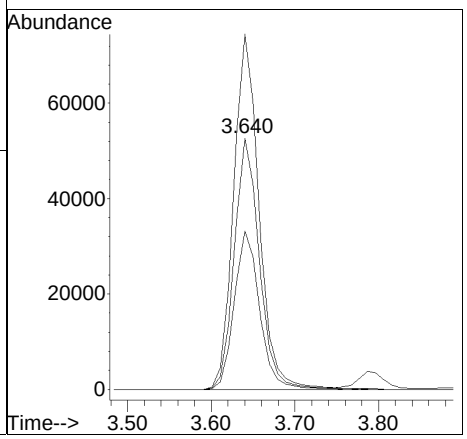


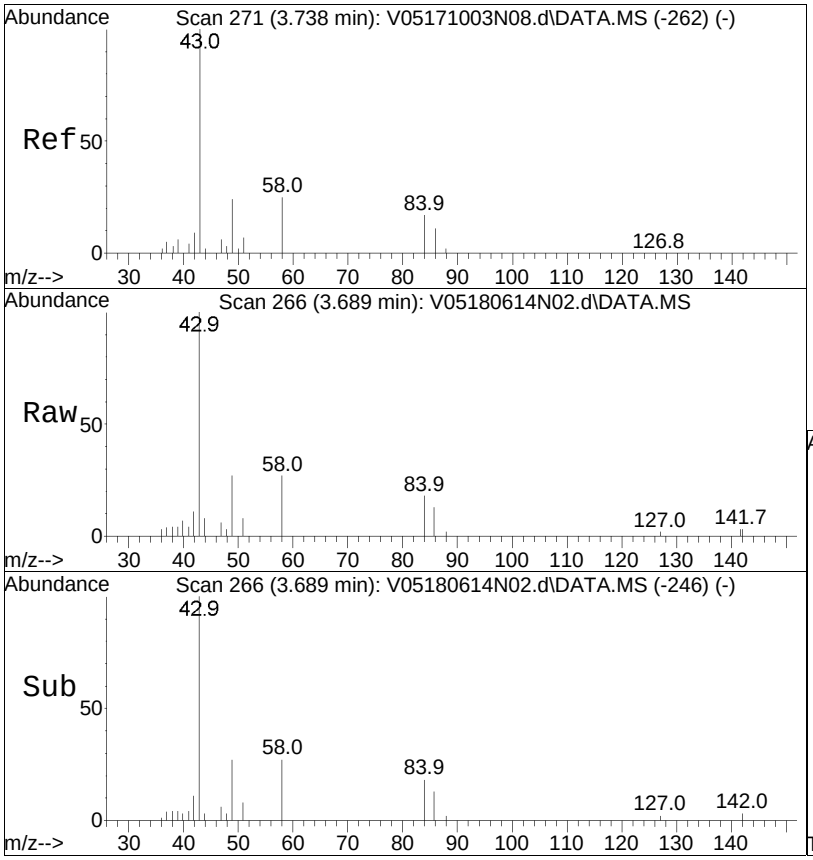


#15
Methylene chloride
Concen: 8.99 ug/L
RT: 3.640 min Scan# 261
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 84 Resp: 110223

Ion	Ratio	Lower	Upper
84	100		
86	63.4	41.9	86.9
49	142.2	95.1	197.5

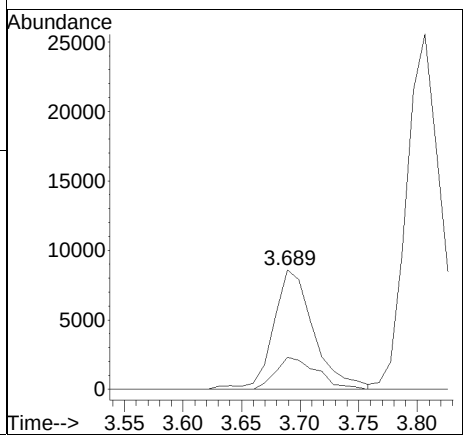


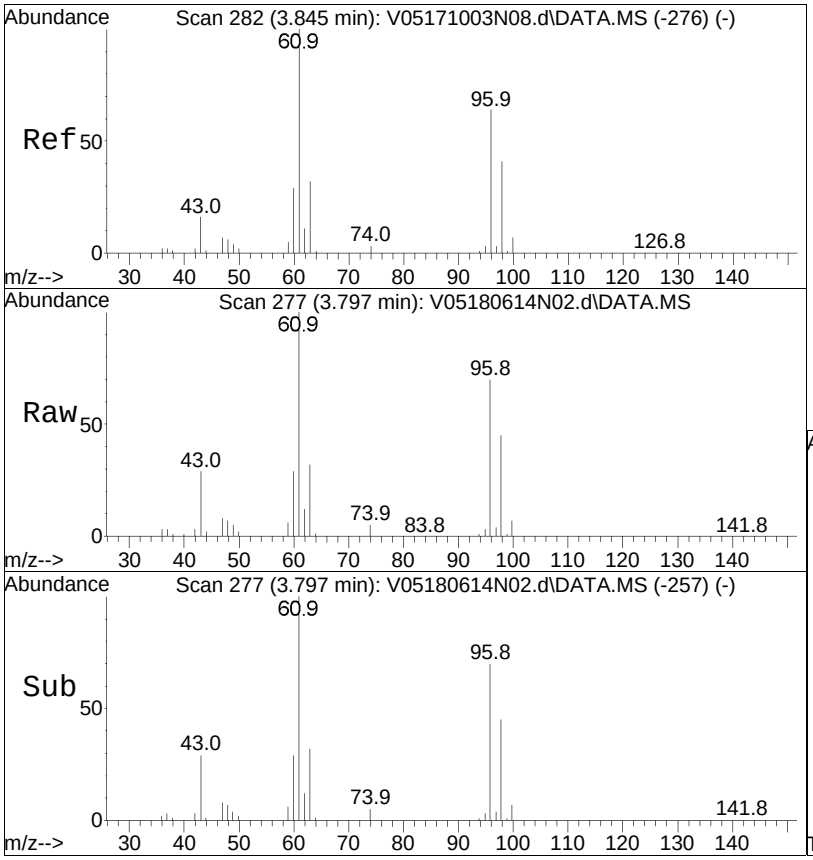


#17
Acetone
Concen: 9.03 ug/L
RT: 3.689 min Scan# 266
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 43 Resp: 20698

Ion	Ratio	Lower	Upper
43	100		
58	27.6	18.5	27.7

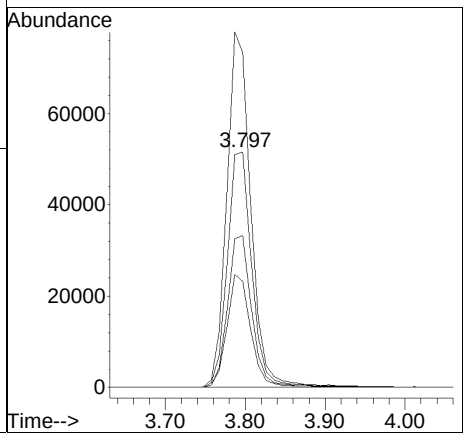


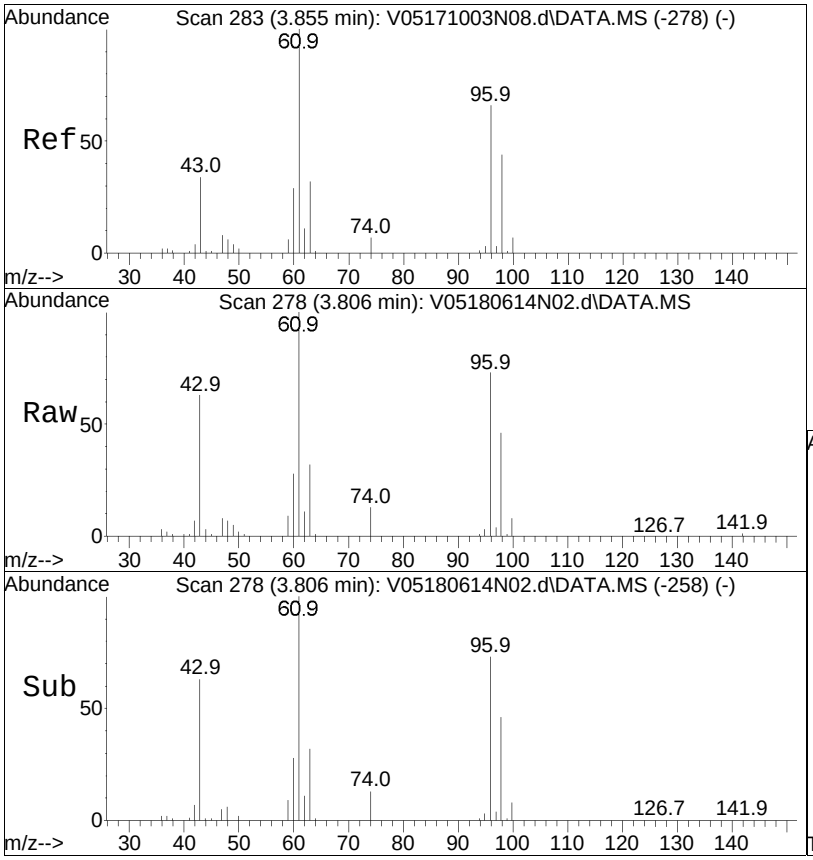


#18
trans-1,2-Dichloroethene
Concen: 8.98 ug/L
RT: 3.797 min Scan# 277
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 96 Resp: 110513

Ion	Ratio	Lower	Upper
96	100		
61	147.9	102.0	211.8
98	63.6	41.9	87.1
63	46.7	32.6	67.8

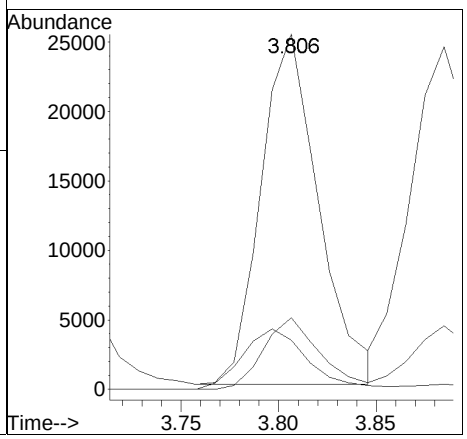


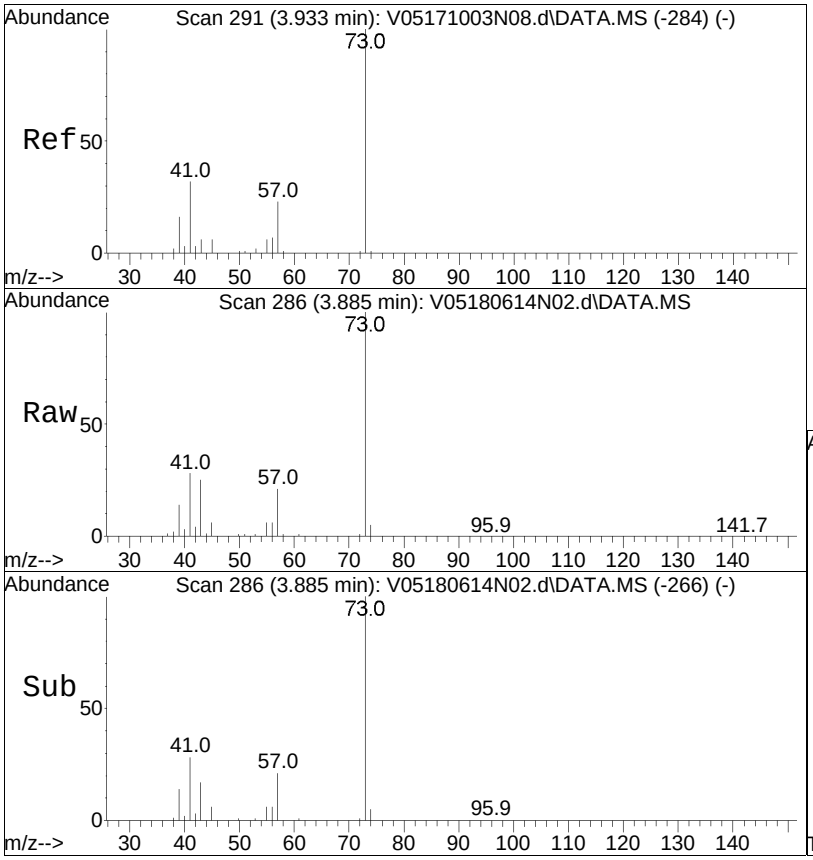


#19
Methyl acetate
Concen: 9.21 ug/L
RT: 3.806 min Scan# 278
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 43 Resp: 51903

Ion	Ratio	Lower	Upper
43	100		
74	20.0	15.3	22.9
59	19.4	18.6	28.0

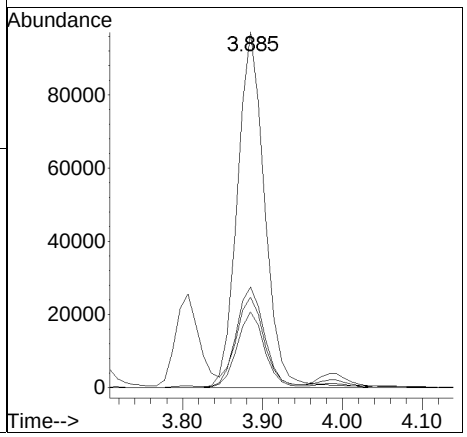


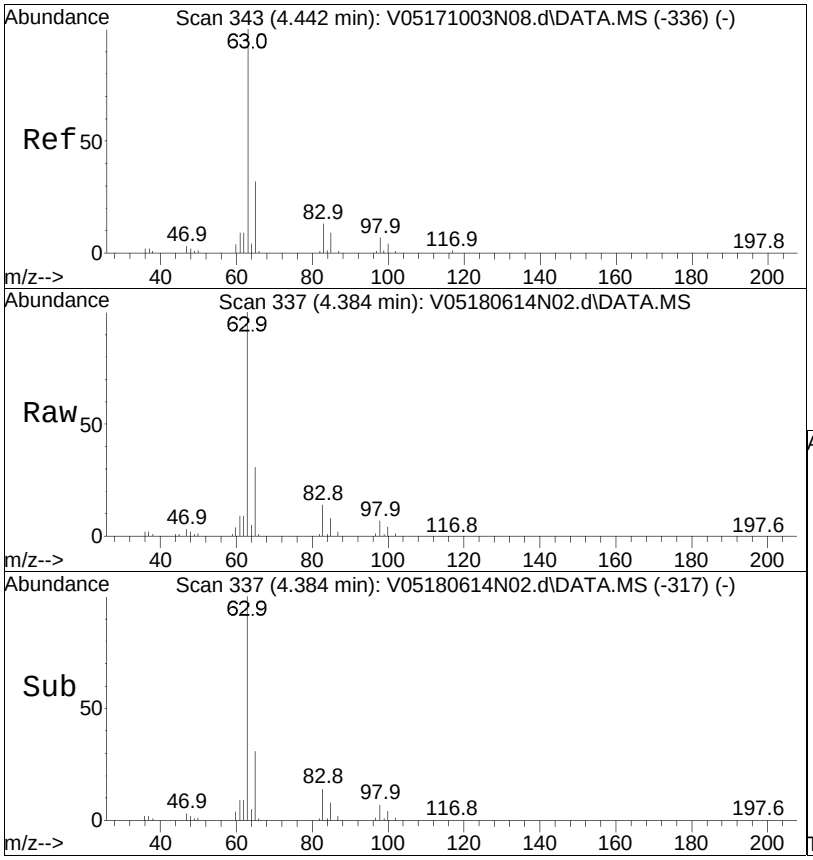


#20
Methyl tert-butyl ether
Concen: 9.55 ug/L
RT: 3.885 min Scan# 286
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 73 Resp: 231072

Ion	Ratio	Lower	Upper
73	100		
57	21.3	14.3	29.7
43	25.2	16.8	35.0
41	28.8	20.9	43.3

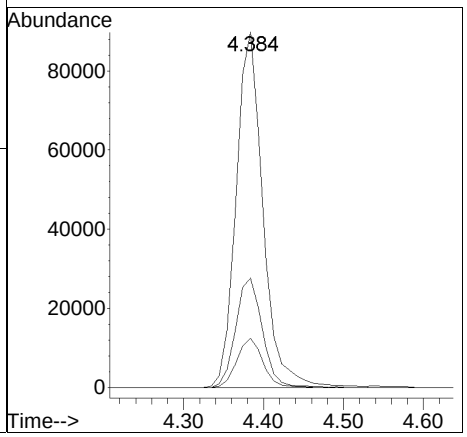


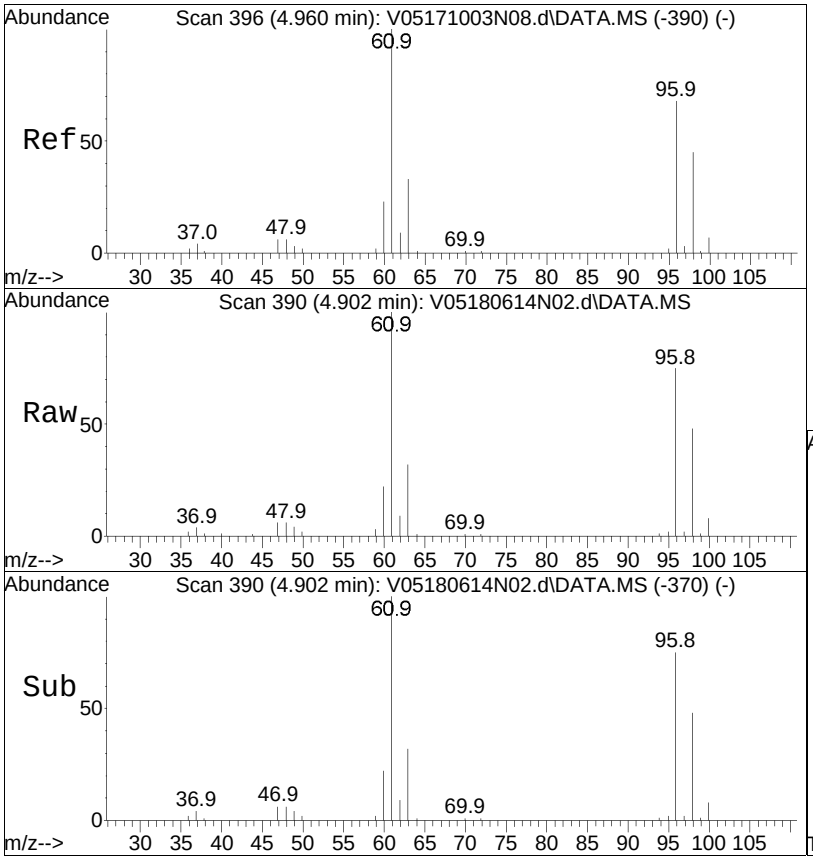


#23
1,1-Dichloroethane
Concen: 8.81 ug/L
RT: 4.384 min Scan# 337
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 63 Resp: 210389

Ion	Ratio	Lower	Upper
63	100		
65	30.5	11.6	51.6
83	13.3	0.0	33.0

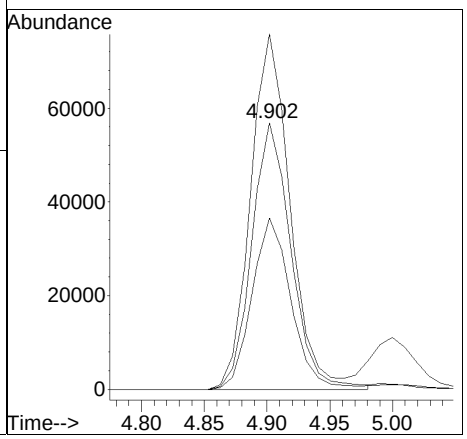


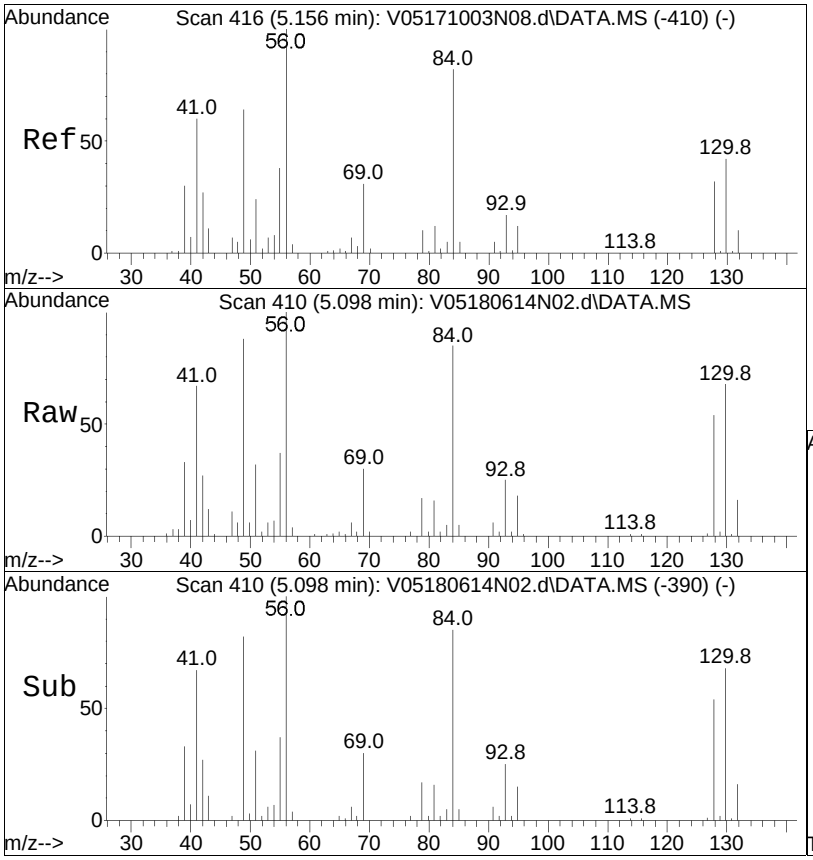


#28
cis-1,2-Dichloroethene
Concen: 9.06 ug/L
RT: 4.902 min Scan# 390
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 96 Resp: 123678

Ion	Ratio	Lower	Upper
96	100		
61	133.7	113.7	170.5
98	64.0	51.2	76.8

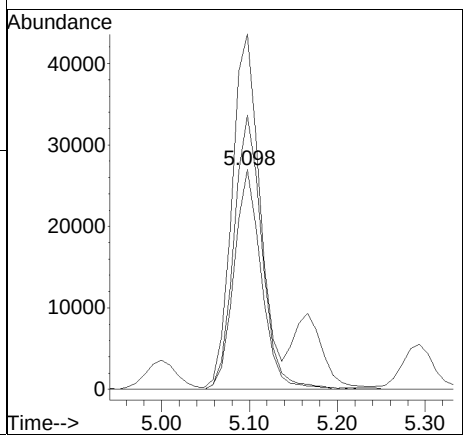


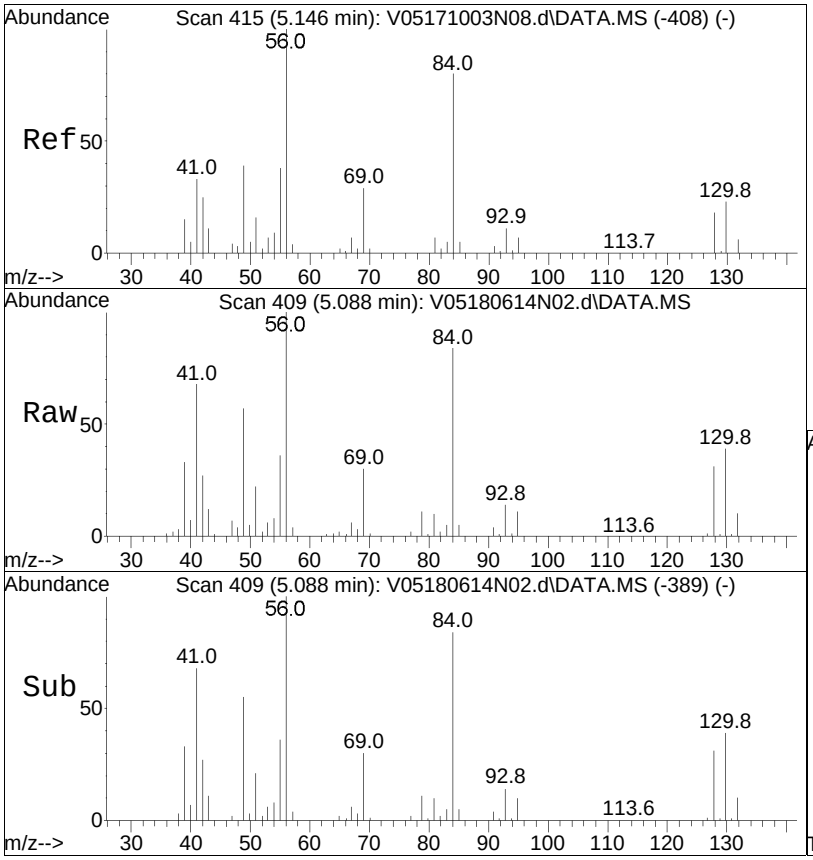


#30
Bromochloromethane
Concen: 9.31 ug/L
RT: 5.098 min Scan# 410
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:128 Resp: 58745

Ion	Ratio	Lower	Upper
128	100		
49	163.7	155.4	233.0
130	127.5	101.9	152.9

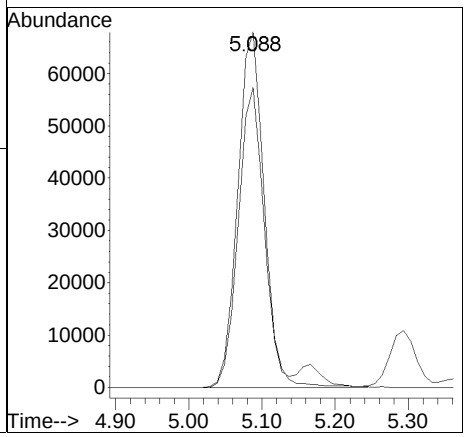


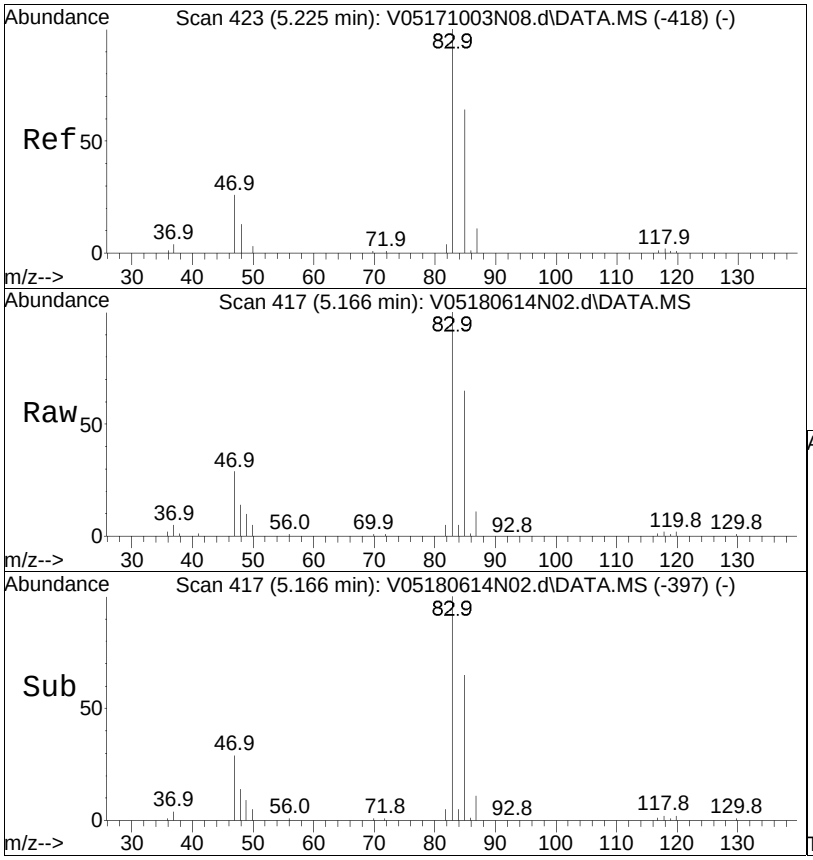


#31
Cyclohexane
Concen: 9.32 ug/L
RT: 5.088 min Scan# 409
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 56 Resp: 170811

Ion	Ratio	Lower	Upper
56	100		
84	82.5	51.3	106.5

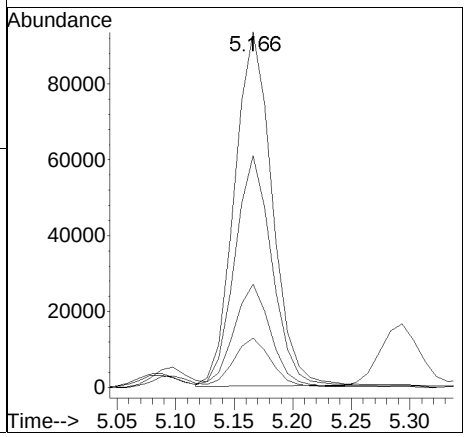


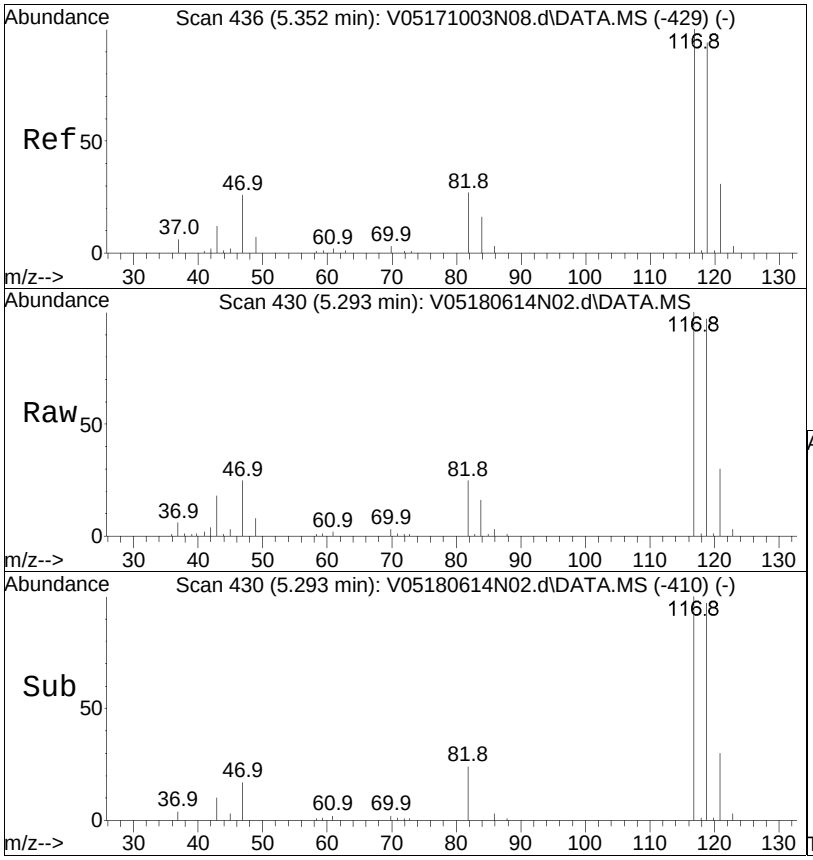


#32
Chloroform
Concen: 8.73 ug/L
RT: 5.166 min Scan# 417
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 83 Resp: 209049

Ion	Ratio	Lower	Upper
83	100		
85	64.8	42.4	88.2
47	27.3	17.9	37.1
48	14.2	9.1	18.9

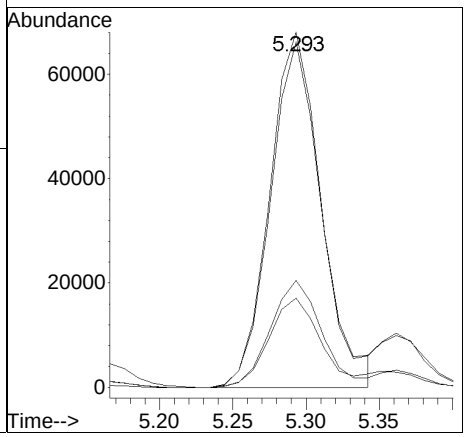


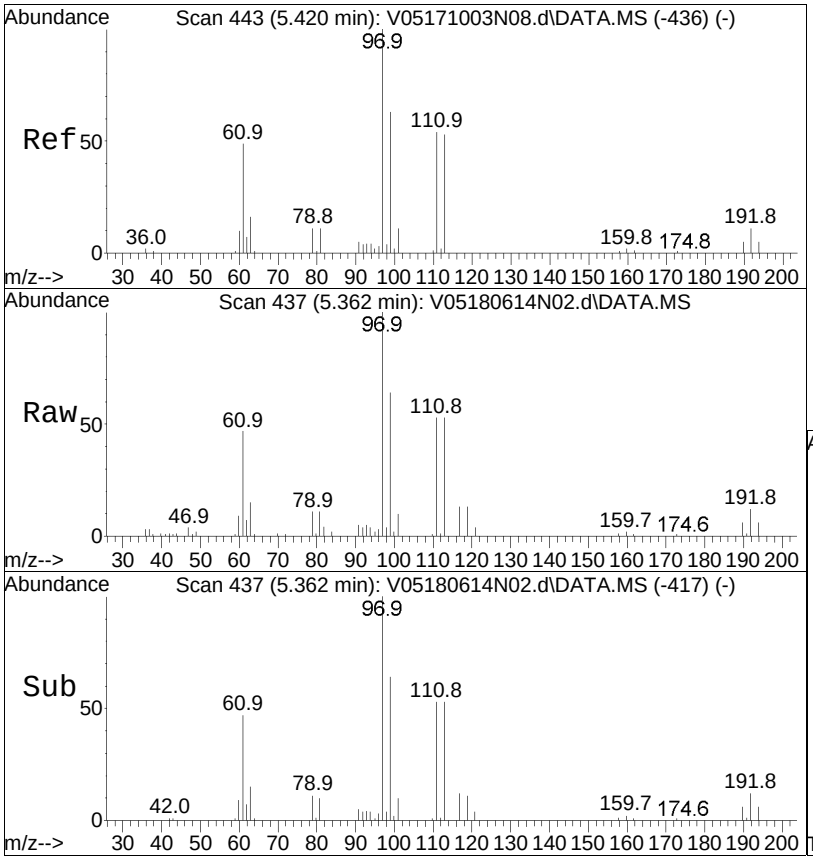


#34
Carbon tetrachloride
Concen: 9.11 ug/L
RT: 5.293 min Scan# 430
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:117 Resp: 166814

Ion	Ratio	Lower	Upper
117	100		
119	95.8	62.2	129.2
121	30.0	20.2	41.9
82	25.1	17.6	36.6

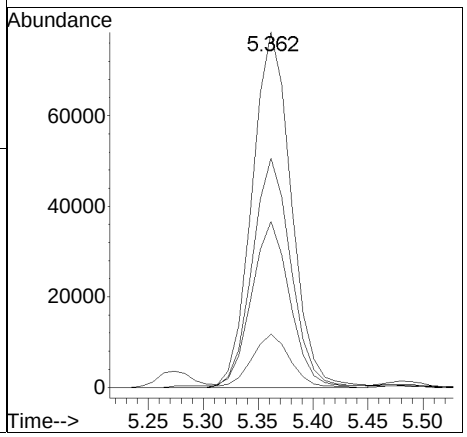


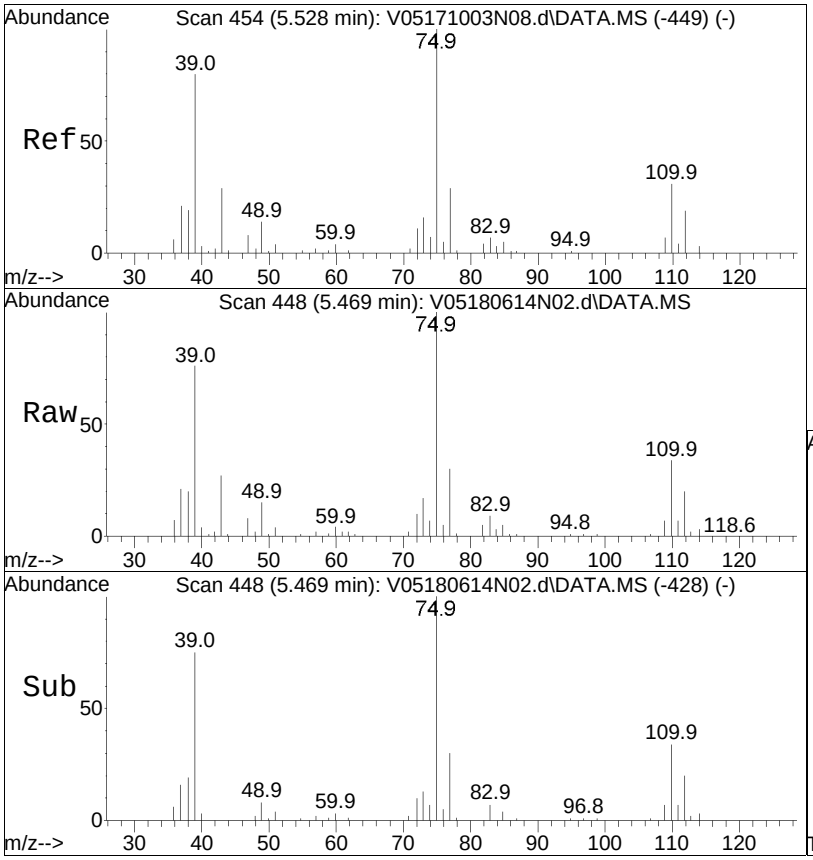


#37
1,1,1-Trichloroethane
Concen: 8.87 ug/L
RT: 5.362 min Scan# 437
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 97 Resp: 194813

Ion	Ratio	Lower	Upper
97	100		
99	64.2	42.3	87.9
61	45.4	31.3	64.9
63	14.6	10.1	20.9

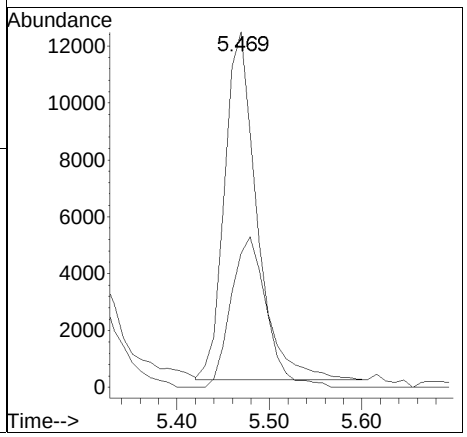


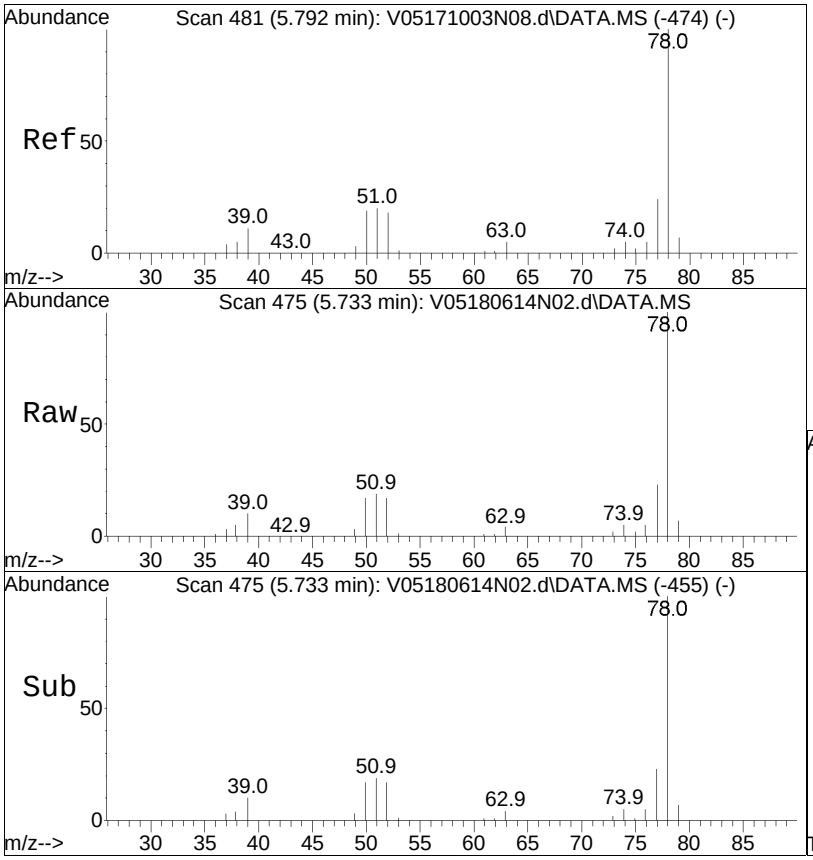


#39
2-Butanone
Concen: 9.40 ug/L
RT: 5.469 min Scan# 448
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 43 Resp: 29722

Ion	Ratio	Lower	Upper
43	100		
72	47.8	44.2	66.4

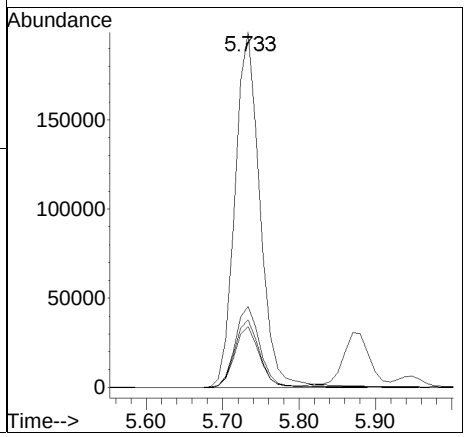


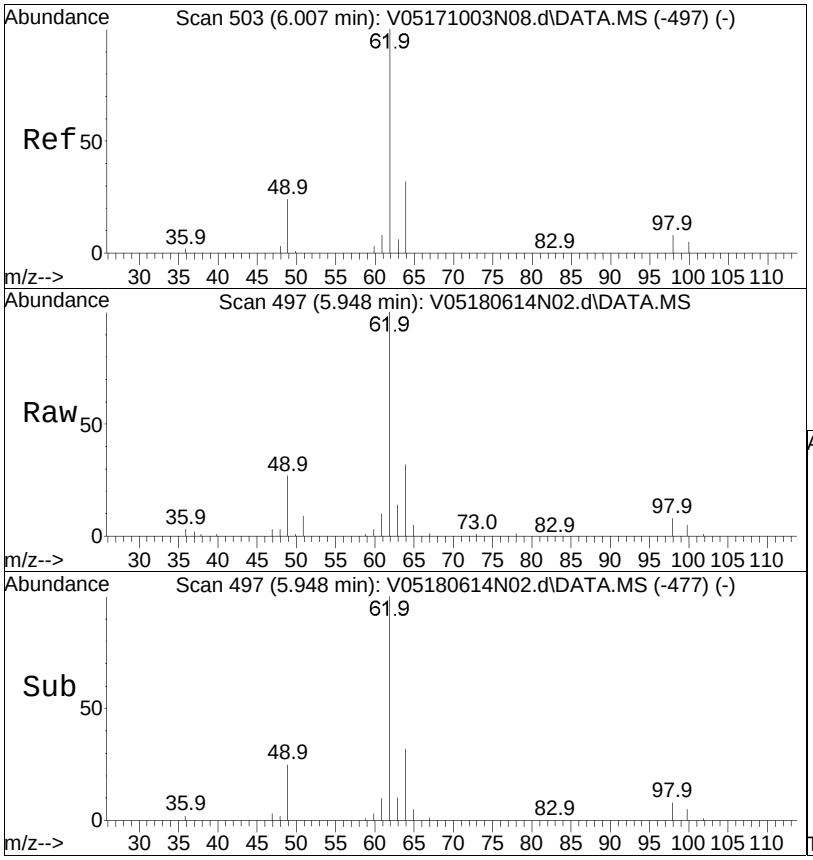


#41
Benzene
Concen: 9.02 ug/L
RT: 5.733 min Scan# 475
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 78 Resp: 453979

Ion	Ratio	Lower	Upper
78	100		
77	22.9	15.3	31.9
51	18.7	12.5	25.9
52	17.1	11.4	23.6

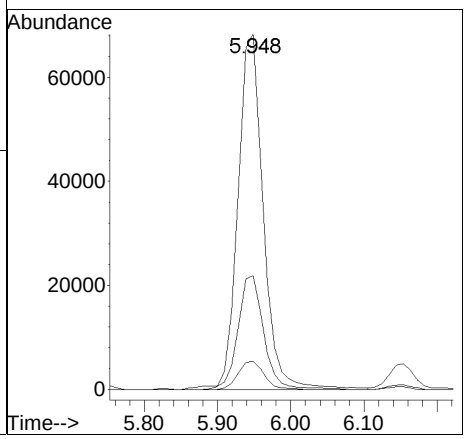


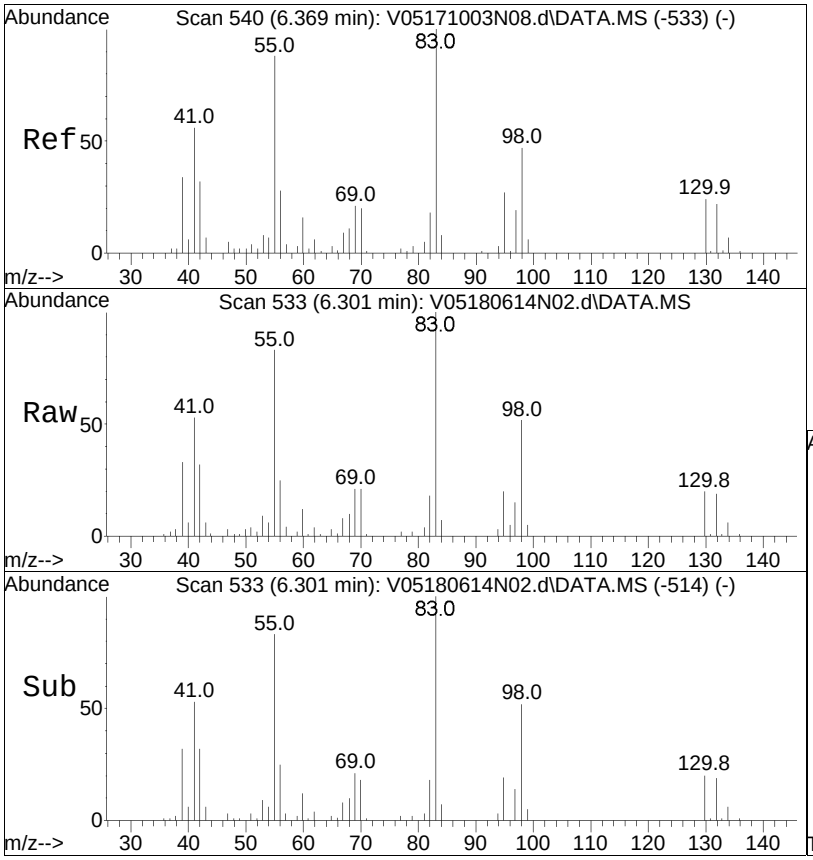


#44
1,2-Dichloroethane
Concen: 8.93 ug/L
RT: 5.948 min Scan# 497
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 62 Resp: 163412

Ion	Ratio	Lower	Upper
62	100		
64	33.3	13.1	53.1
98	8.1	0.0	27.8

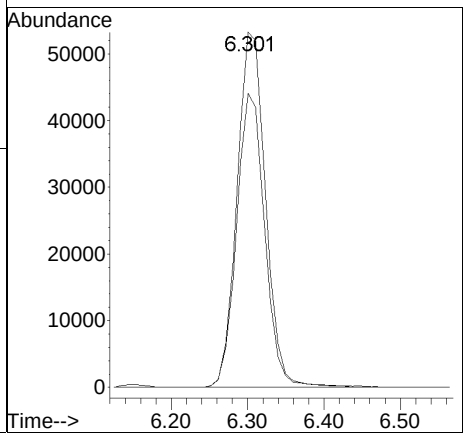


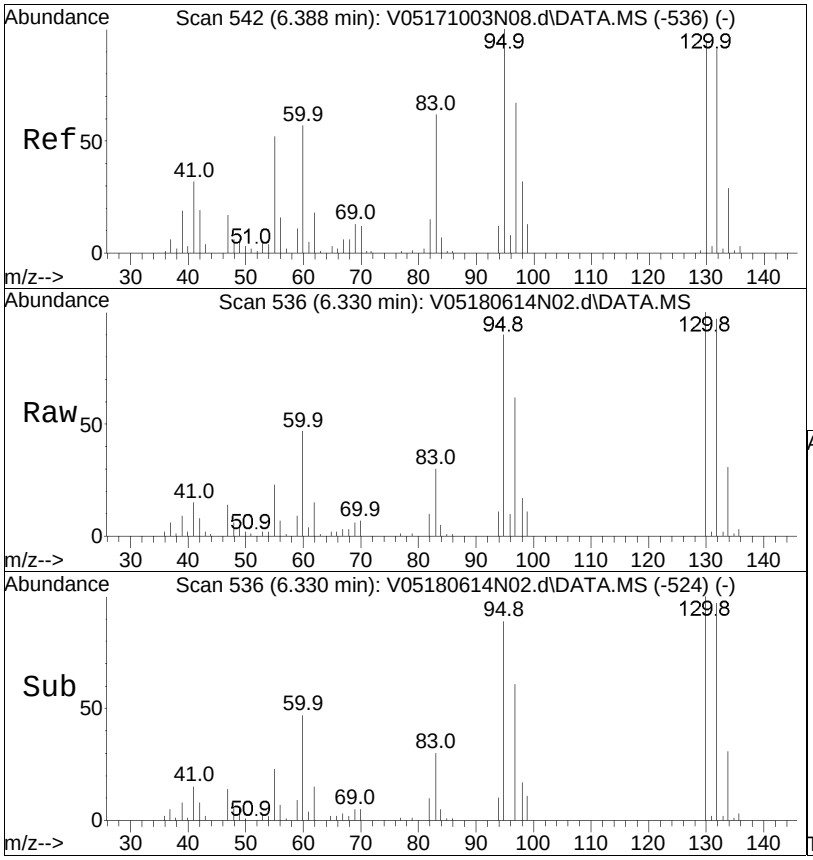


#47
Methyl cyclohexane
Concen: 9.20 ug/L
RT: 6.301 min Scan# 533
Delta R.T. -0.010 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 83 Resp: 138564

Ion	Ratio	Lower	Upper
83	100		
55	81.8	69.5	104.3

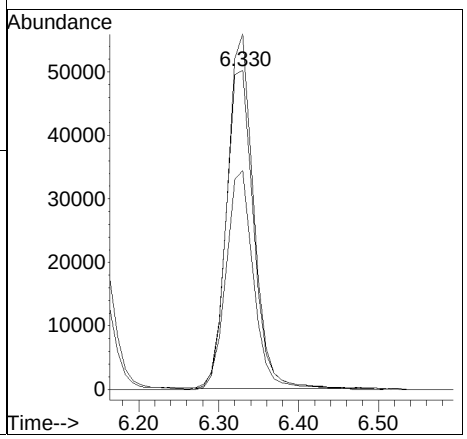


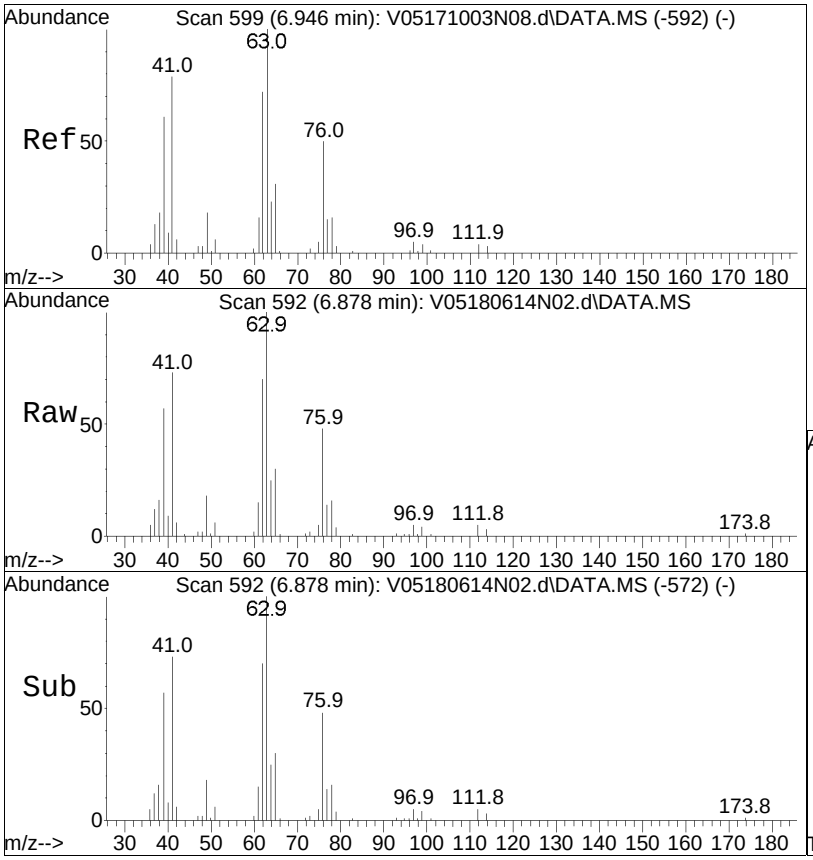


#48
Trichloroethene
Concen: 8.47 ug/L
RT: 6.330 min Scan# 536
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 95 Resp: 119463

Ion	Ratio	Lower	Upper
95	100		
97	70.1	53.5	80.3
130	108.8	75.9	113.9

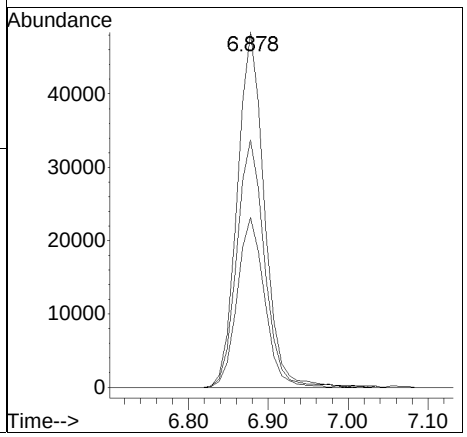


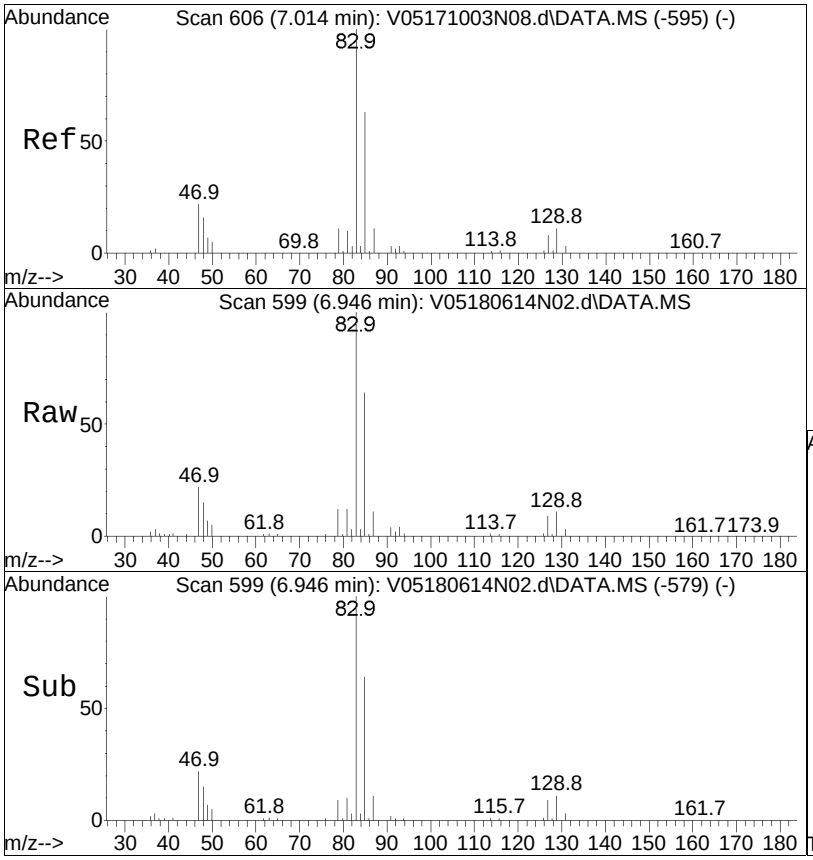


#51
1,2-Dichloropropane
Concen: 9.07 ug/L
RT: 6.878 min Scan# 592
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 63 Resp: 114704

Ion	Ratio	Lower	Upper
63	100		
62	70.9	57.4	86.2
76	48.1	39.8	59.6

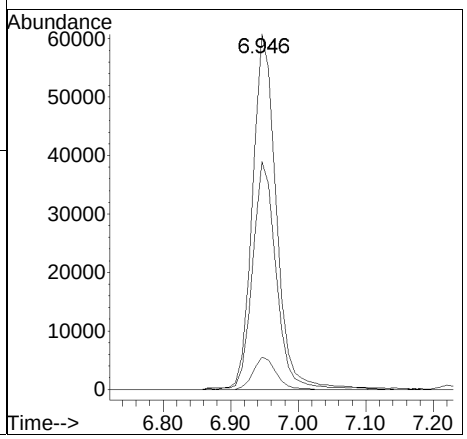


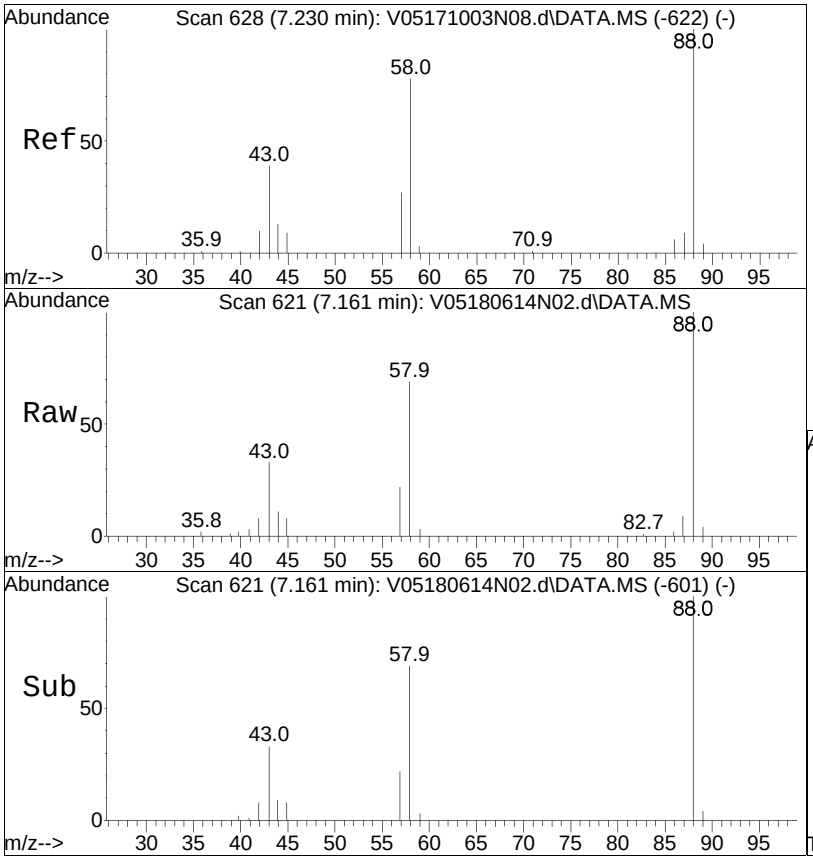


#54
Bromodichloromethane
Concen: 8.80 ug/L
RT: 6.946 min Scan# 599
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 83 Resp: 149243

Ion	Ratio	Lower	Upper
83	100		
85	63.7	50.3	75.5
127	8.7	6.6	9.8

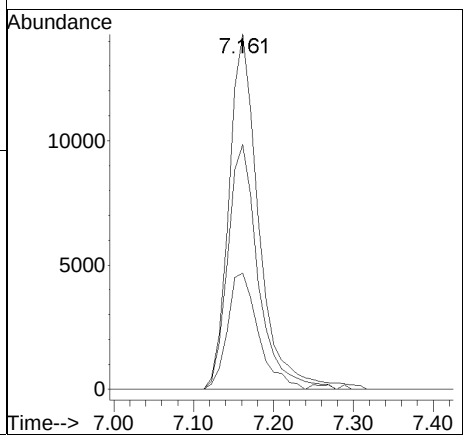


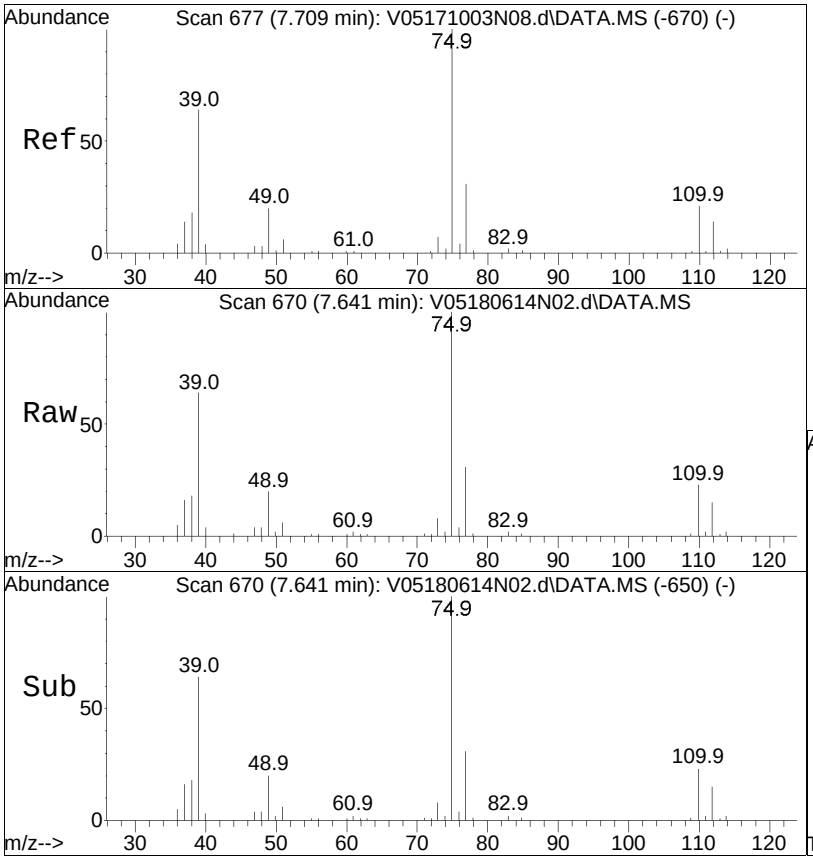


#57
1,4-Dioxane
Concen: 652.33 ug/L
RT: 7.161 min Scan# 621
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 88 Resp: 37454

Ion	Ratio	Lower	Upper
88	100		
58	70.3	61.5	92.3
43	33.7	30.5	45.7

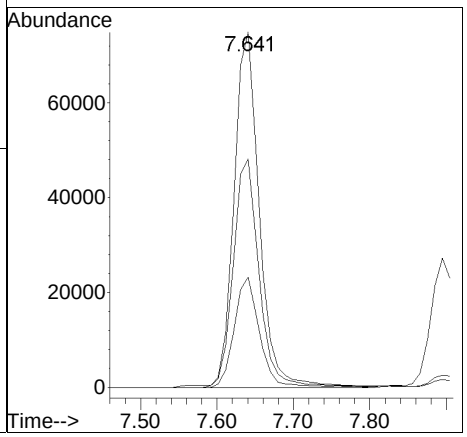


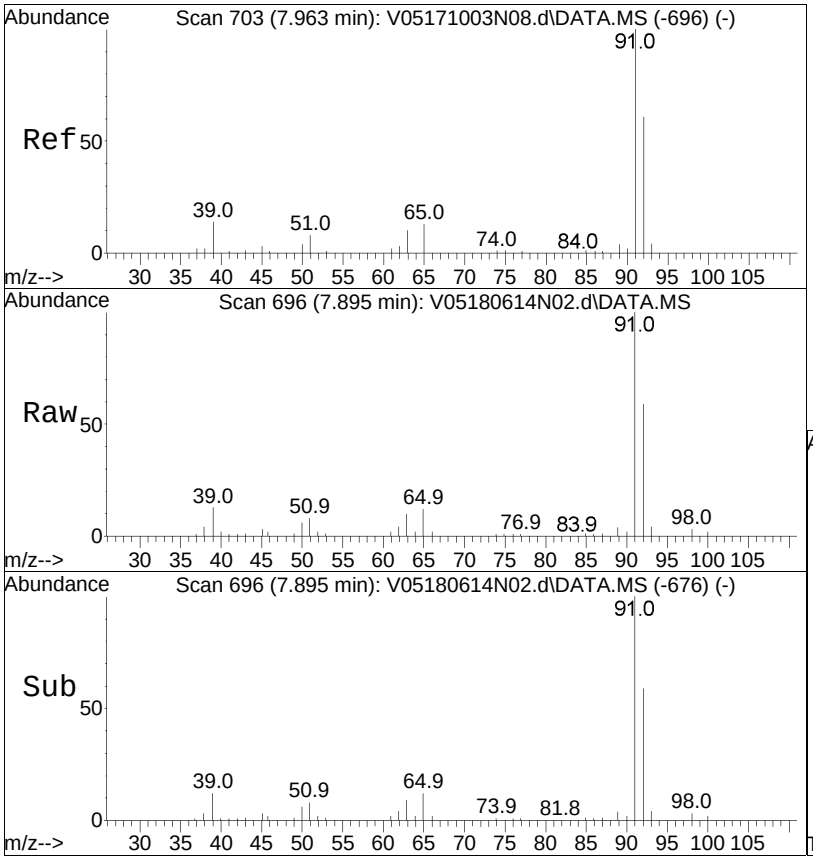


#58
cis-1,3-Dichloropropene
Concen: 9.27 ug/L
RT: 7.641 min Scan# 670
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 75 Resp: 172491

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.1	37.7
39	66.4	53.4	80.2

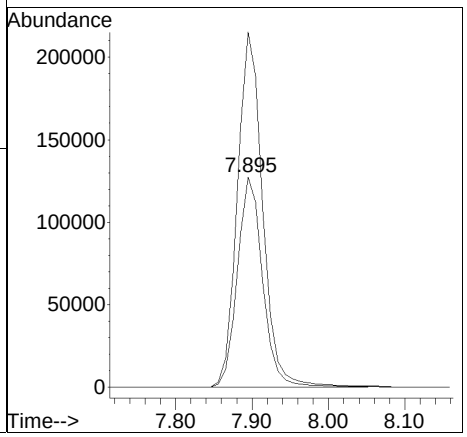


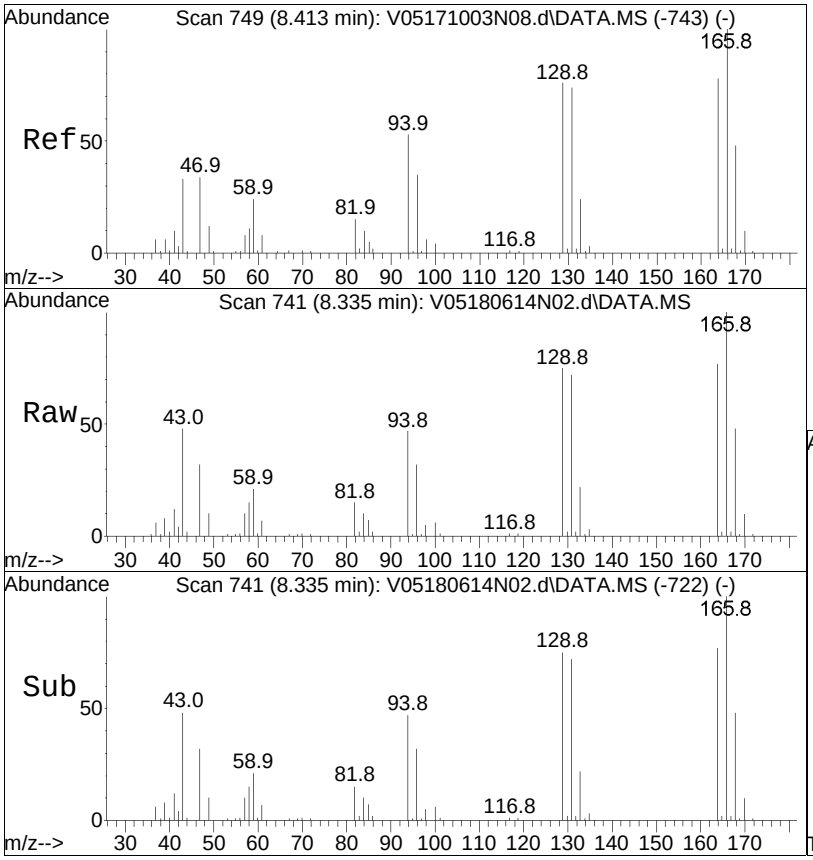


#61
Toluene
Concen: 8.90 ug/L
RT: 7.895 min Scan# 696
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 92 Resp: 294227

Ion	Ratio	Lower	Upper
92	100		
91	168.7	133.0	199.4

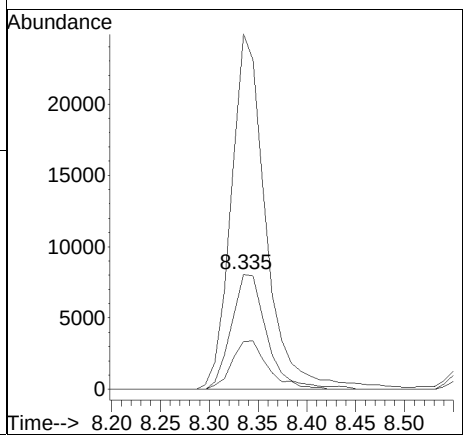


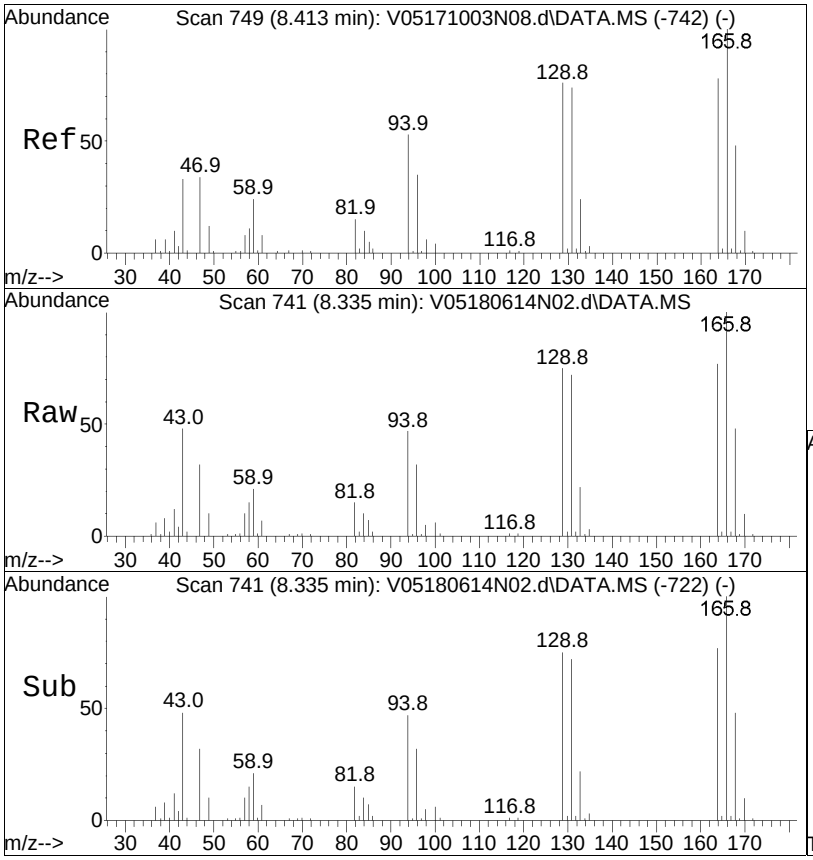


#62
4-Methyl-2-pentanone
Concen: 9.07 ug/L
RT: 8.335 min Scan# 741
Delta R.T. -0.010 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 58 Resp: 20505

Ion	Ratio	Lower	Upper
58	100		
100	43.0	29.3	43.9
43	303.0	247.4	371.0

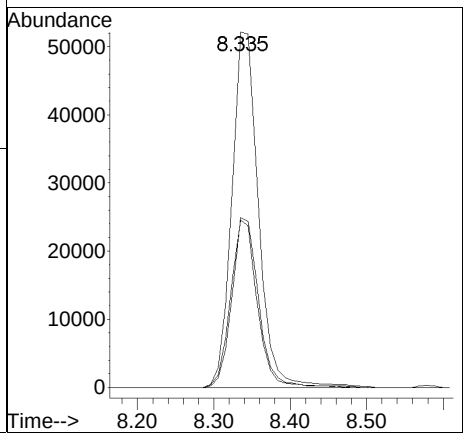


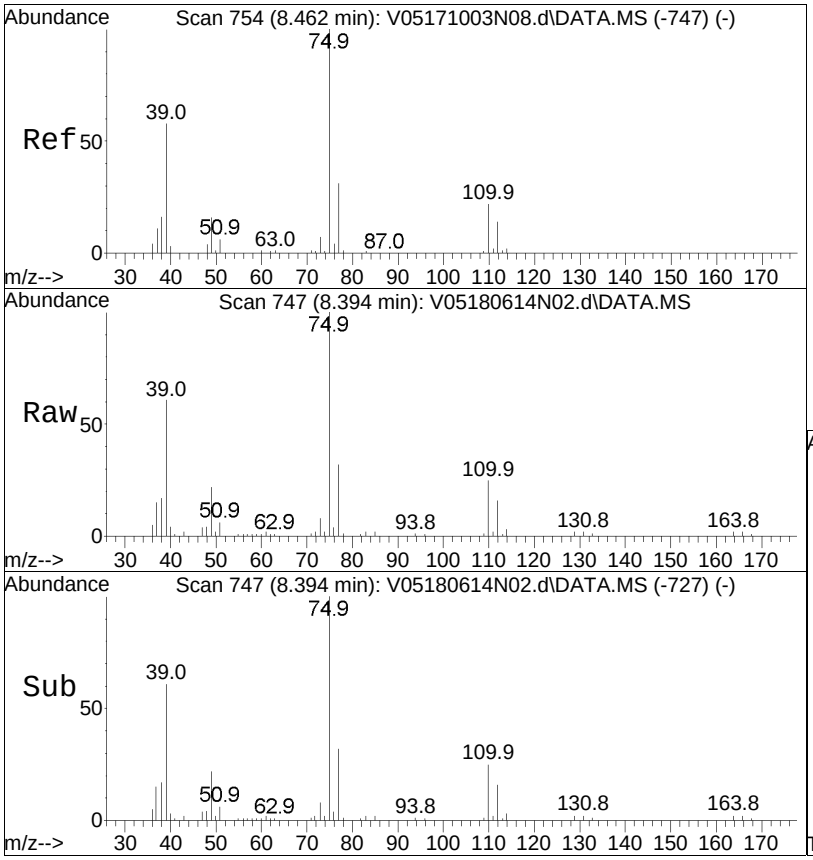


#63
Tetrachloroethene
Concen: 8.97 ug/L
RT: 8.335 min Scan# 741
Delta R.T. -0.010 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:166 Resp: 126530

Ion	Ratio	Lower	Upper
166	100		
168	47.8	27.2	67.2
94	47.1	35.8	75.8

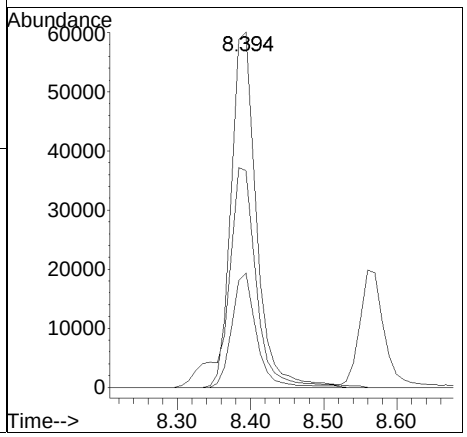


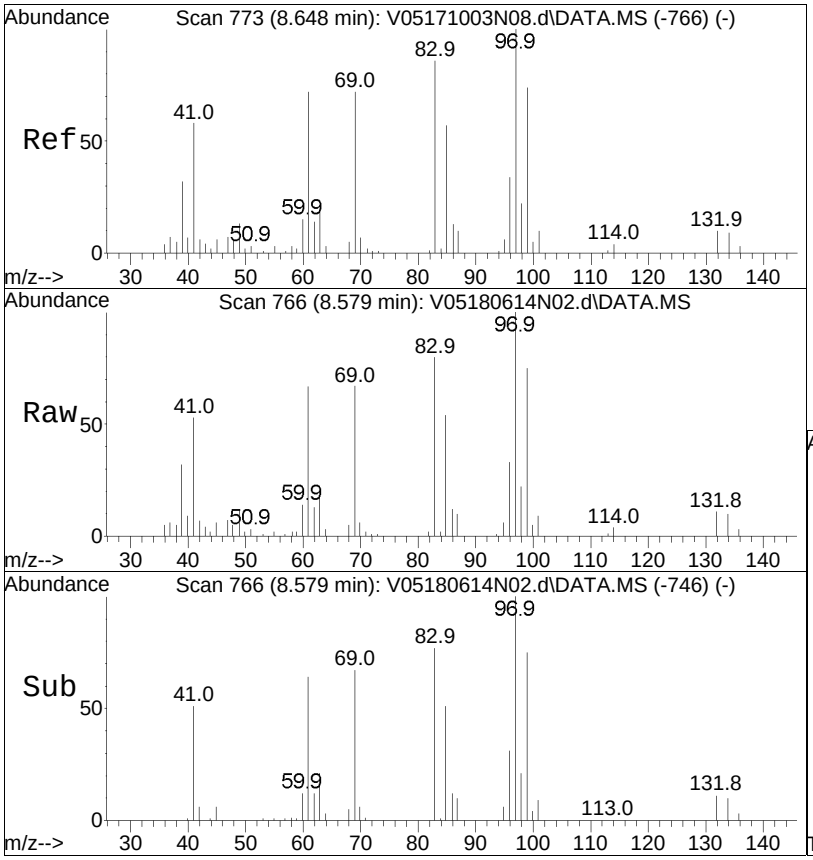


#65
trans-1,3-Dichloropropene
Concen: 8.09 ug/L
RT: 8.394 min Scan# 747
Delta R.T. -0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 75 Resp: 144436

Ion	Ratio	Lower	Upper
75	100		
77	31.2	10.9	50.9
39	69.1	48.1	88.1

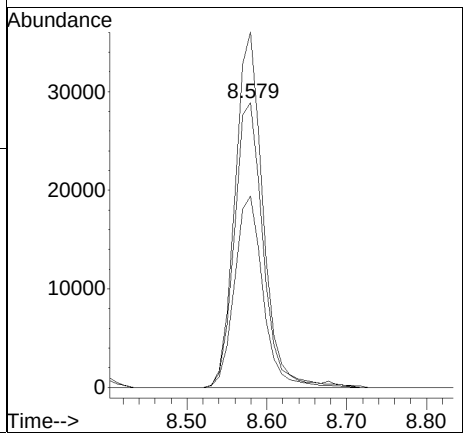


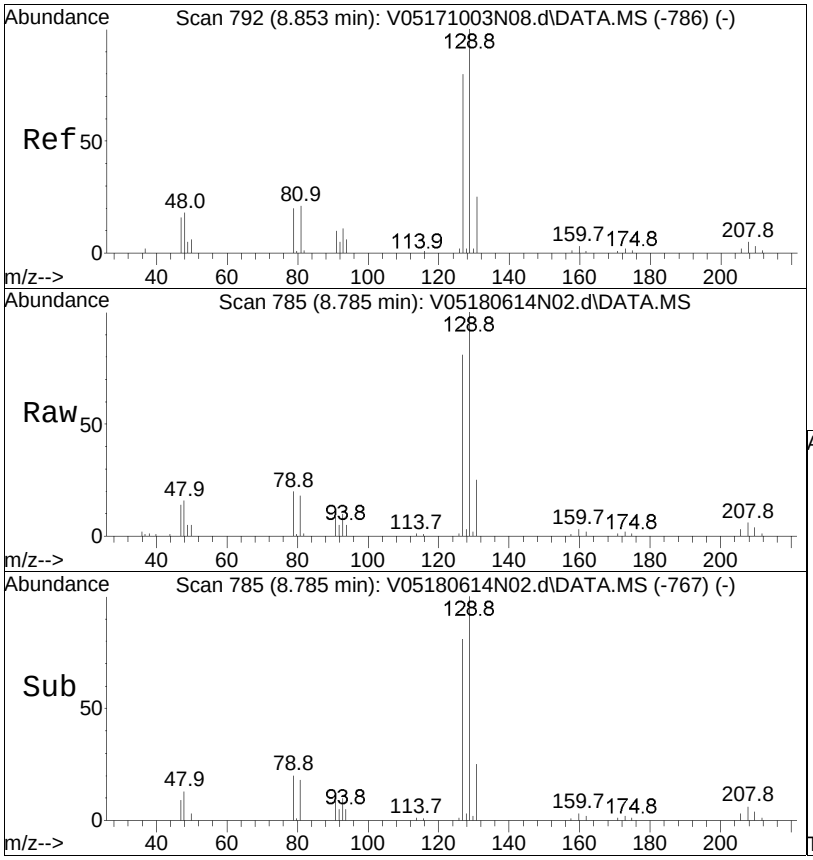


#68
1,1,2-Trichloroethane
Concen: 9.42 ug/L
RT: 8.579 min Scan# 766
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 83 Resp: 79247

Ion	Ratio	Lower	Upper
83	100		
97	121.8	93.6	133.6
85	66.8	46.9	86.9

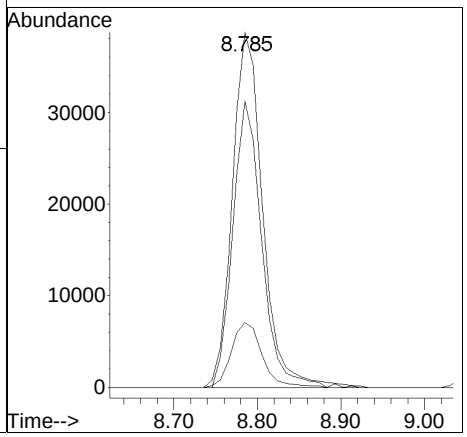


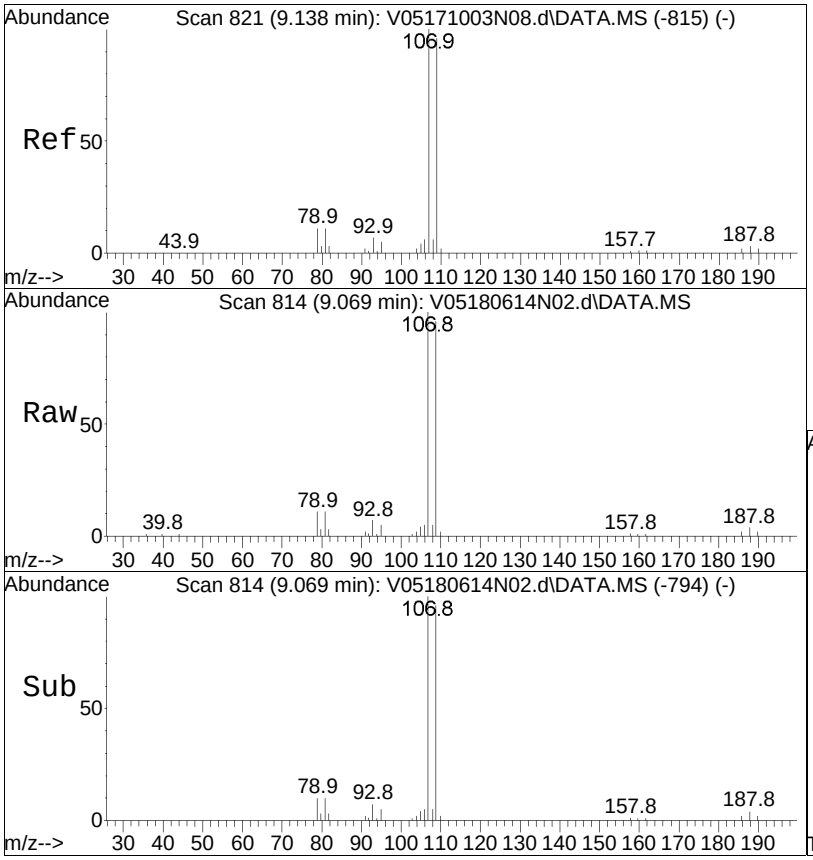


#69
Chlorodibromomethane
Concen: 7.79 ug/L
RT: 8.785 min Scan# 785
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:129 Resp: 97829

Ion	Ratio	Lower	Upper
129	100		
81	18.5	0.0	40.0
127	77.1	57.9	97.9

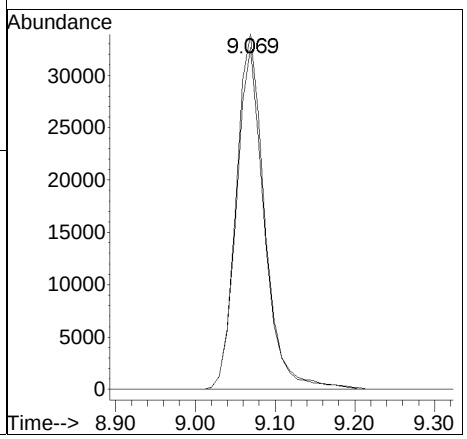


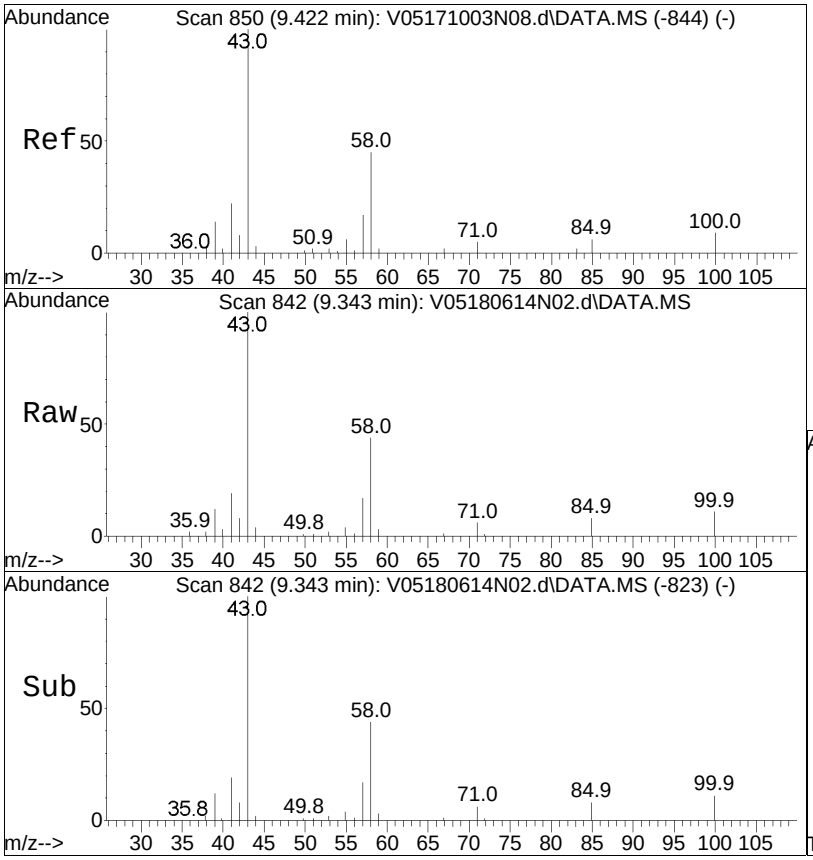


#71
1,2-Dibromoethane
Concen: 9.33 ug/L
RT: 9.069 min Scan# 814
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:107 Resp: 84726

Ion	Ratio	Lower	Upper
107	100		
109	93.7	75.5	113.3

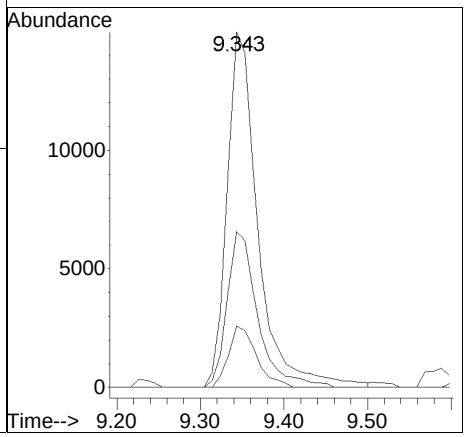


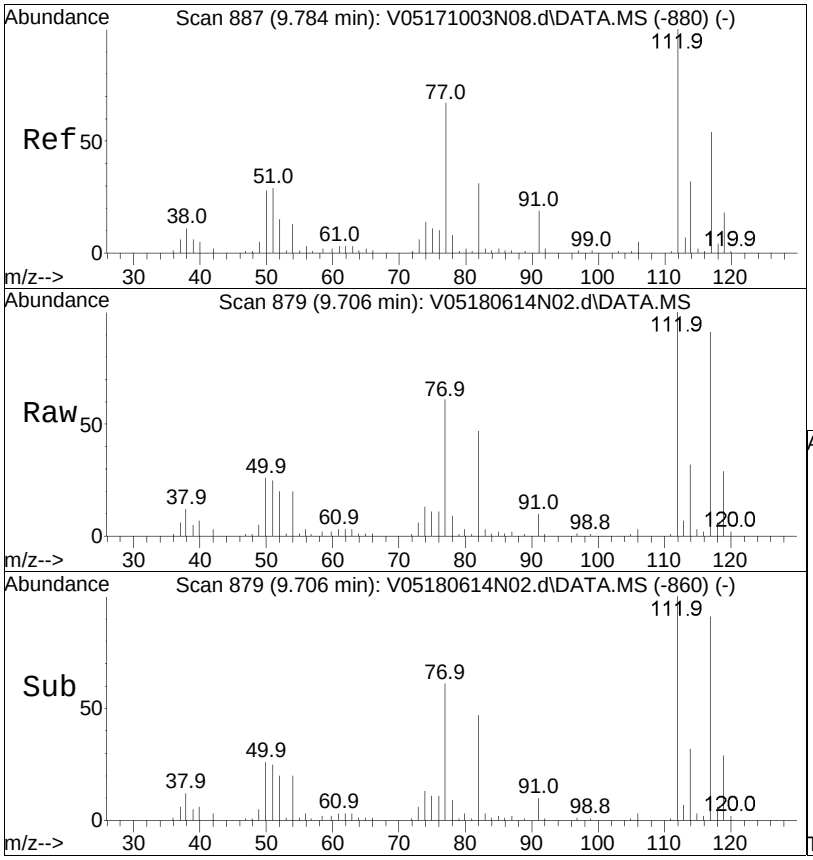


#72
2-Hexanone
Concen: 8.79 ug/L
RT: 9.343 min Scan# 842
Delta R.T. -0.010 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 43 Resp: 38654

Ion	Ratio	Lower	Upper
43	100		
58	43.5	32.8	49.2
57	15.6	11.8	17.8

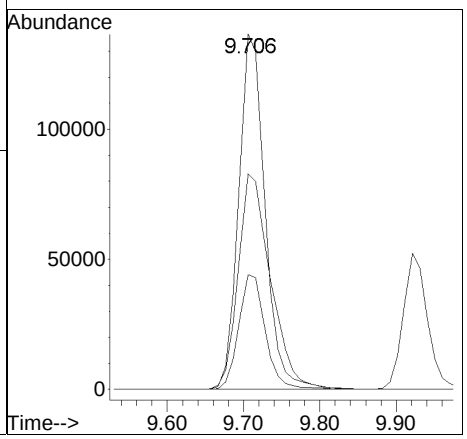


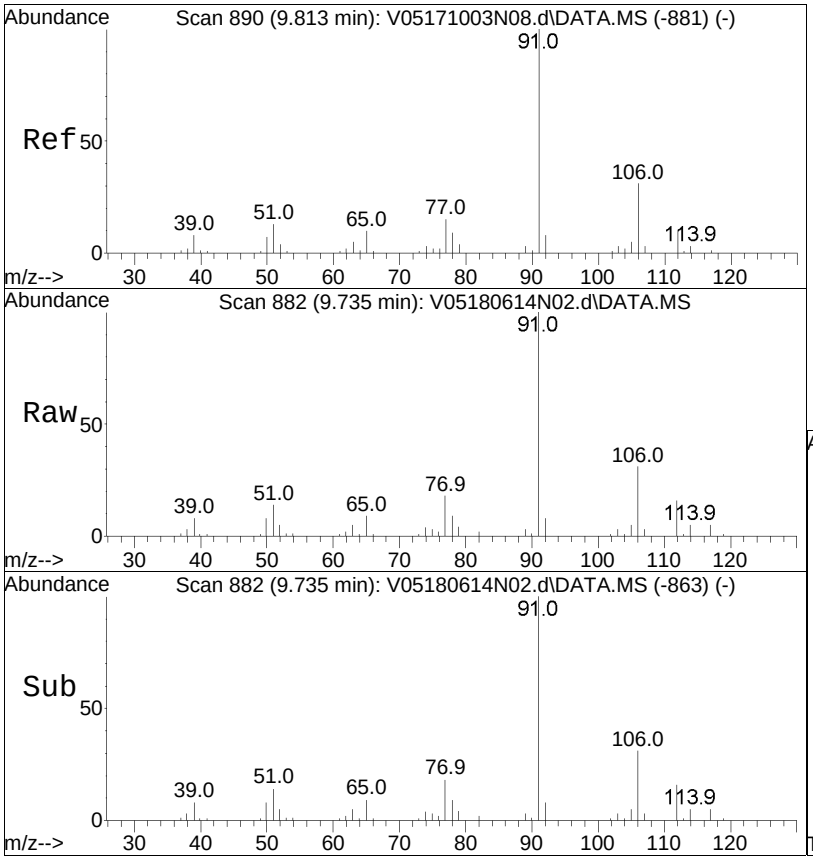


#73
Chlorobenzene
Concen: 8.83 ug/L
RT: 9.706 min Scan# 879
Delta R.T. -0.010 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:112 Resp: 327859

Ion	Ratio	Lower	Upper
112	100		
77	74.8	67.0	100.4
114	32.7	25.6	38.4

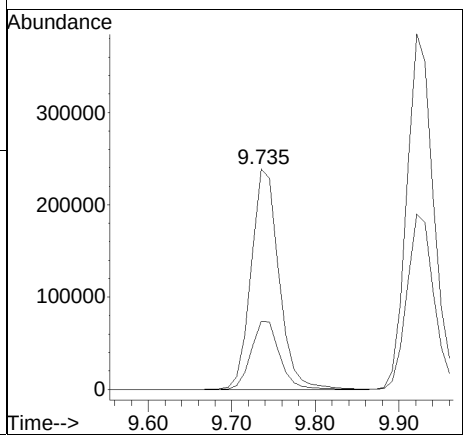


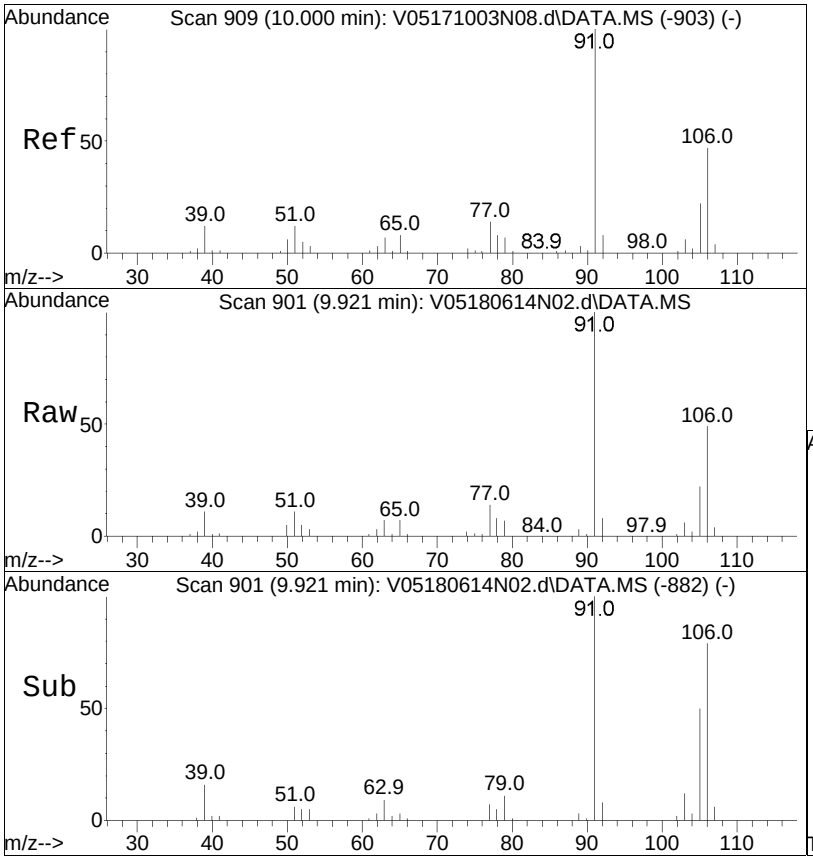


#74
Ethylbenzene
Concen: 8.81 ug/L
RT: 9.735 min Scan# 882
Delta R.T. -0.010 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 91 Resp: 554348

Ion	Ratio	Lower	Upper
91	100		
106	31.5	23.8	35.8

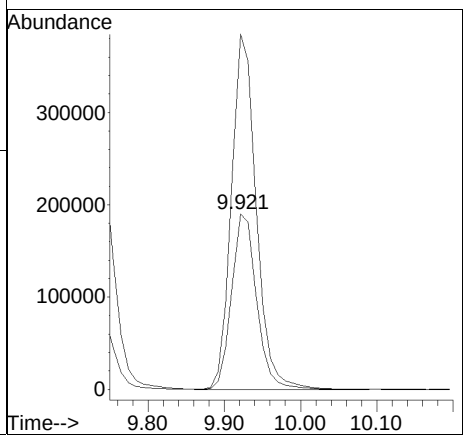


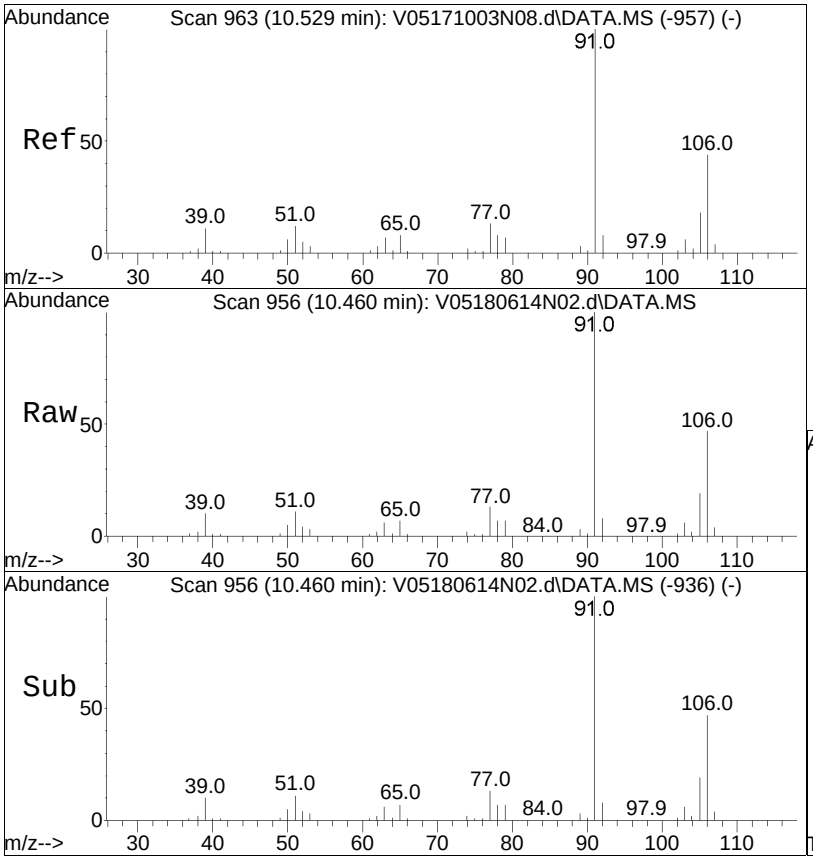


#76
p/m Xylene
Concen: 18.24 ug/L
RT: 9.921 min Scan# 901
Delta R.T. -0.010 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:106 Resp: 434306

Ion	Ratio	Lower	Upper
106	100		
91	199.5	169.0	253.4

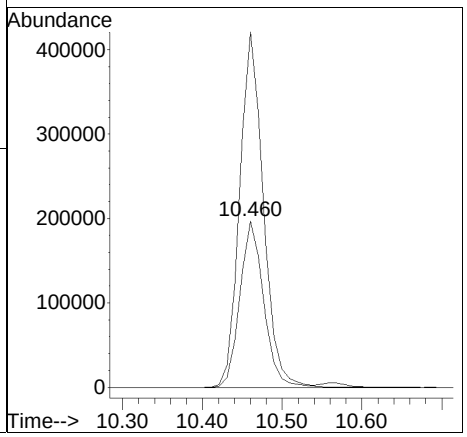


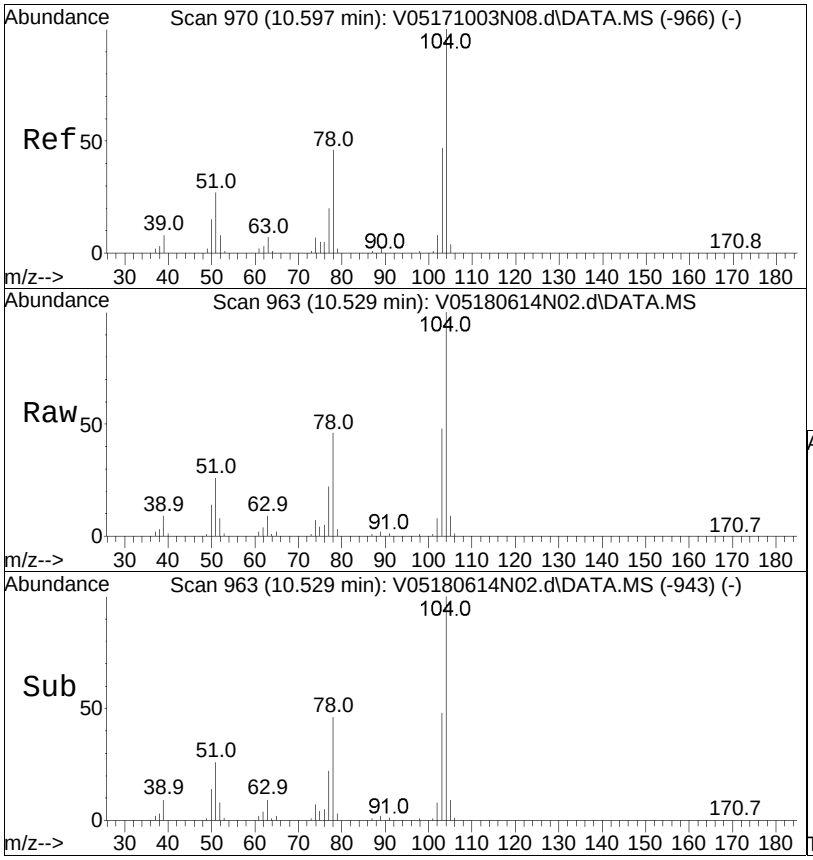


#77
o Xylene
Concen: 18.43 ug/L
RT: 10.460 min Scan# 956
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:106 Resp: 409337

Ion	Ratio	Lower	Upper
106	100		
91	211.7	178.9	268.3

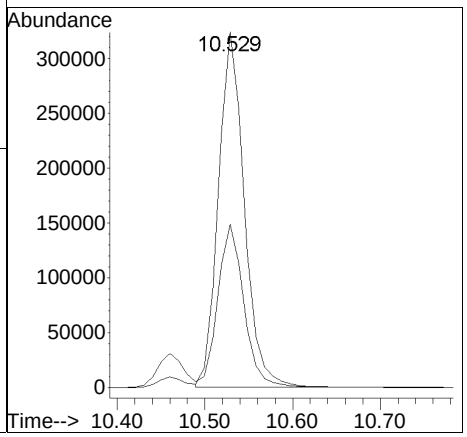


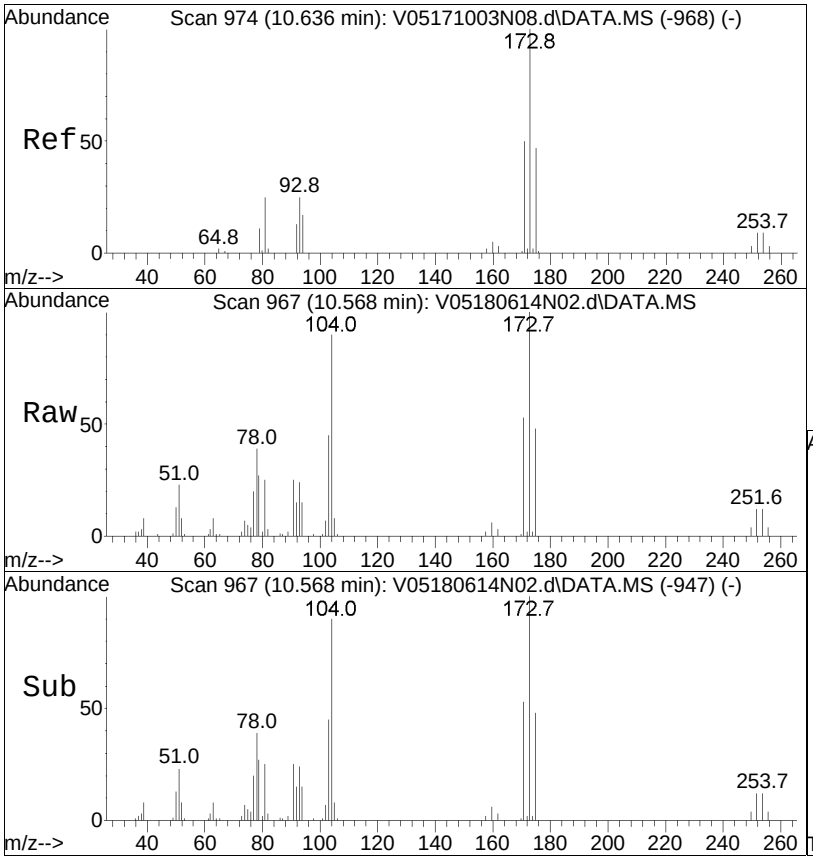


#78
Styrene
Concen: 18.55 ug/L
RT: 10.529 min Scan# 963
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:104 Resp: 663774

Ion	Ratio	Lower	Upper
104	100		
78	46.2	37.9	56.9

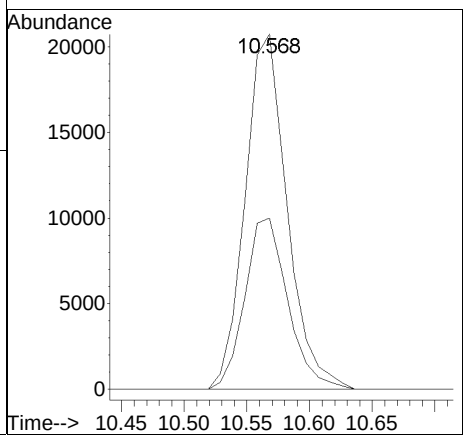


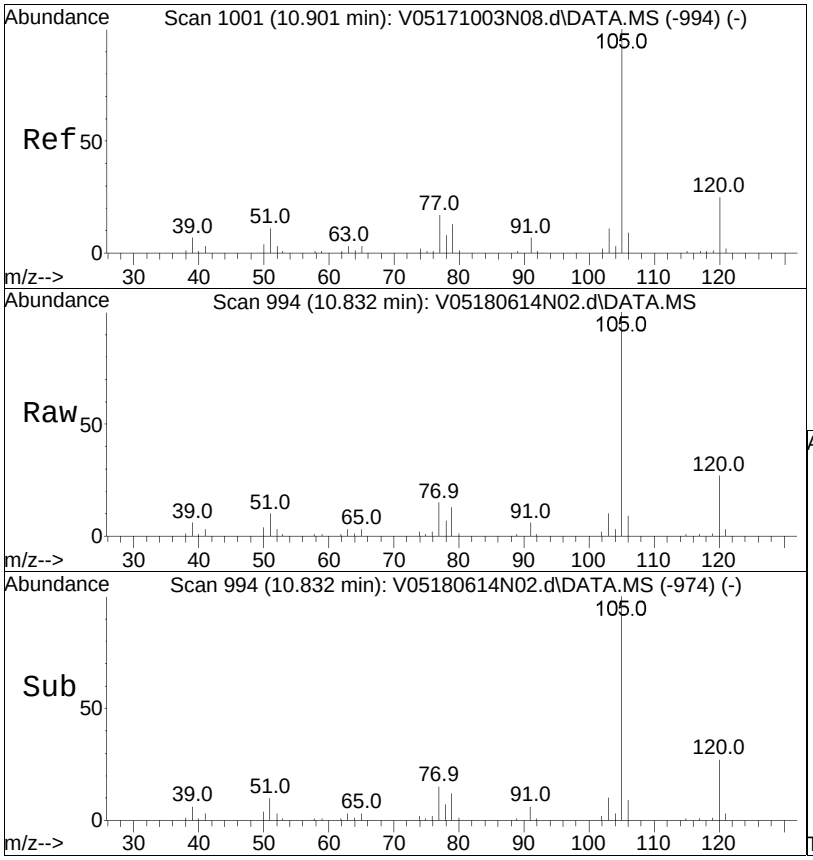


#80
Bromoform
Concen: 7.43 ug/L
RT: 10.568 min Scan# 967
Delta R.T. -0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:173 Resp: 48338

Ion	Ratio	Lower	Upper
173	100		
175	49.4	27.7	67.7

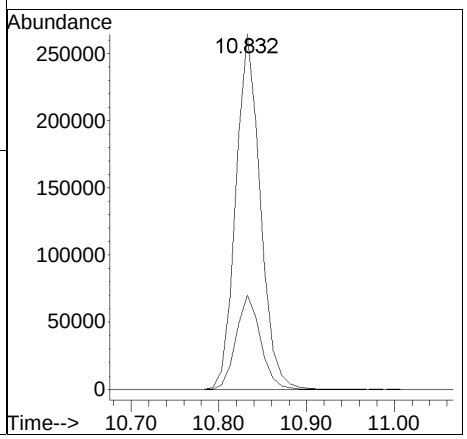


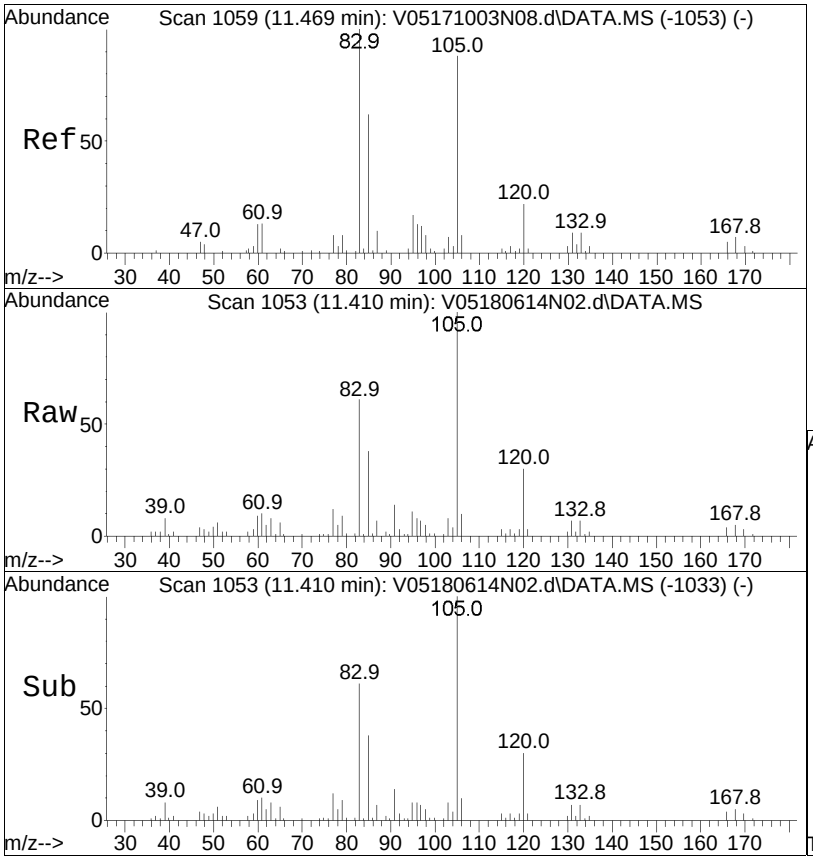


#82
Isopropylbenzene
Concen: 9.16 ug/L
RT: 10.832 min Scan# 994
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:105 Resp: 513372

Ion	Ratio	Lower	Upper
105	100		
120	26.4	5.8	45.8

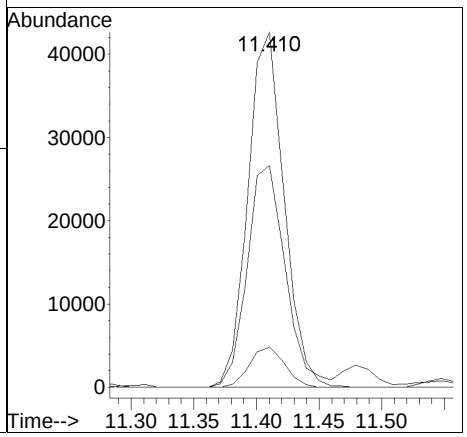


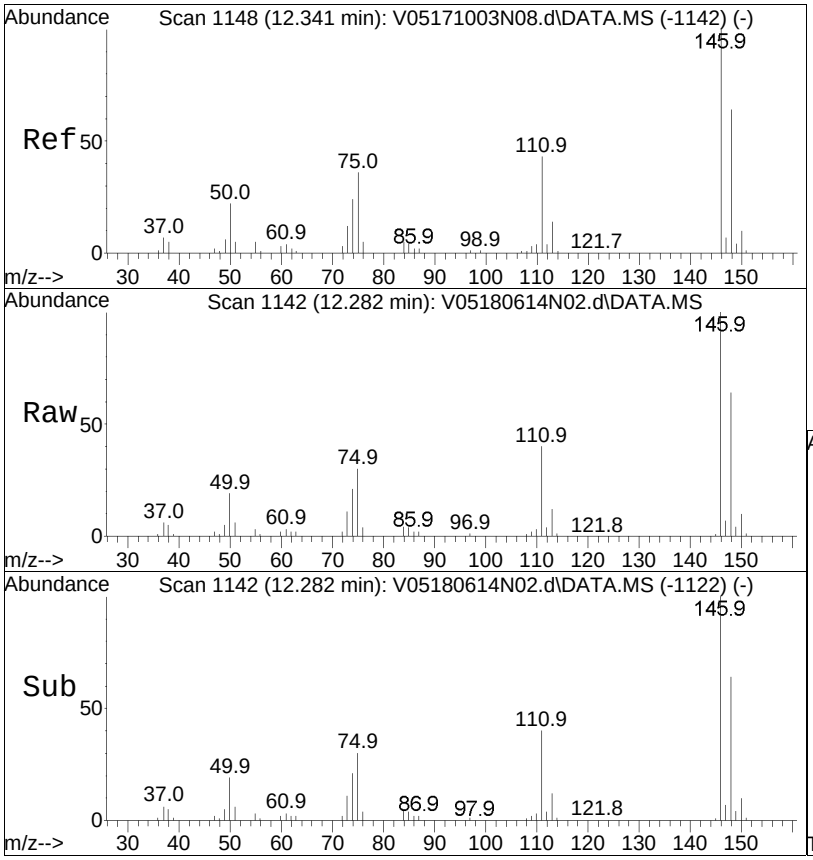


#87
1,1,2,2-Tetrachloroethane
Concen: 9.29 ug/L
RT: 11.410 min Scan# 1053
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion: 83 Resp: 85732

Ion	Ratio	Lower	Upper
83	100		
131	11.1	0.0	29.3
85	66.3	44.5	84.5

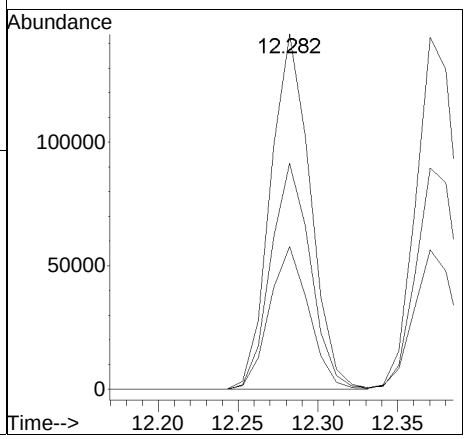


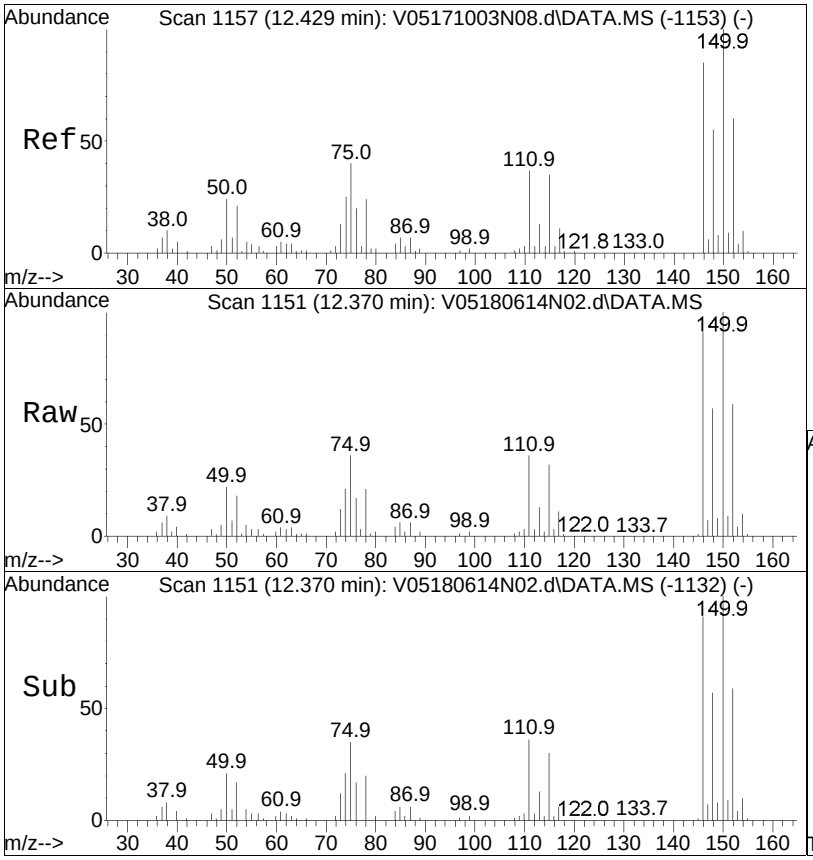


#100
1,3-Dichlorobenzene
Concen: 9.06 ug/L
RT: 12.282 min Scan# 1142
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:146 Resp: 249884

Ion	Ratio	Lower	Upper
146	100		
111	39.8	27.6	57.4
148	63.5	41.3	85.9

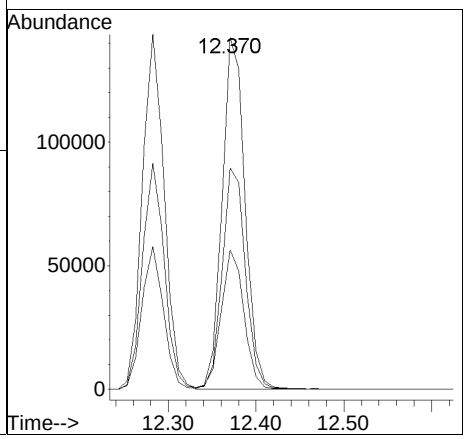


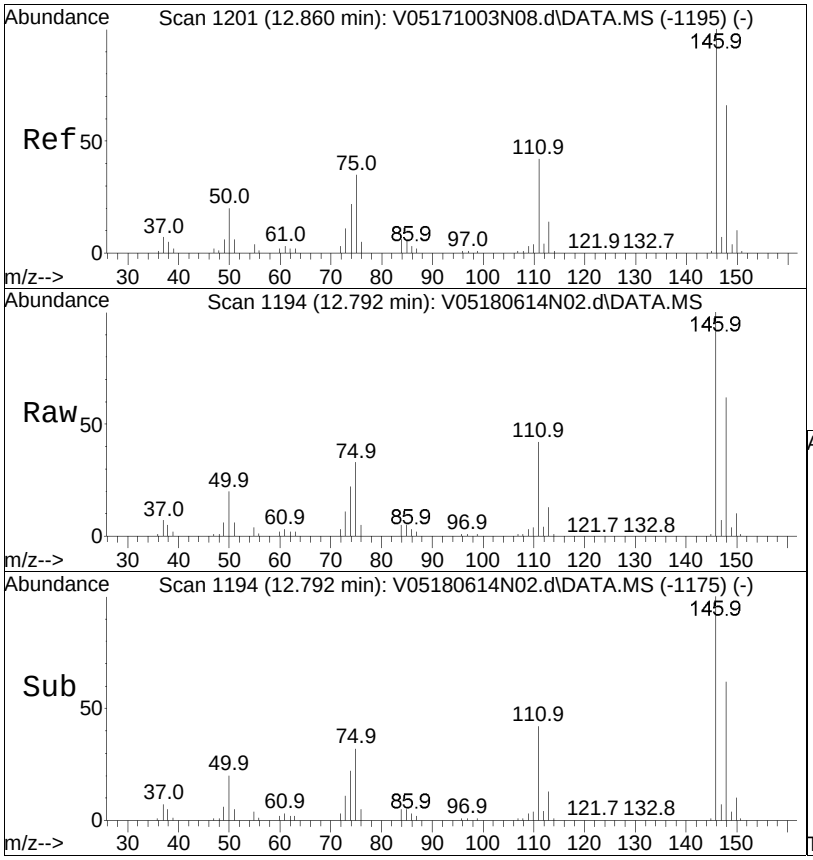


#101
1,4-Dichlorobenzene
Concen: 9.02 ug/L
RT: 12.370 min Scan# 1151
Delta R.T. -0.010 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:146 Resp: 259113

Ion	Ratio	Lower	Upper
146	100		
111	39.6	33.6	50.4
148	64.0	51.3	76.9

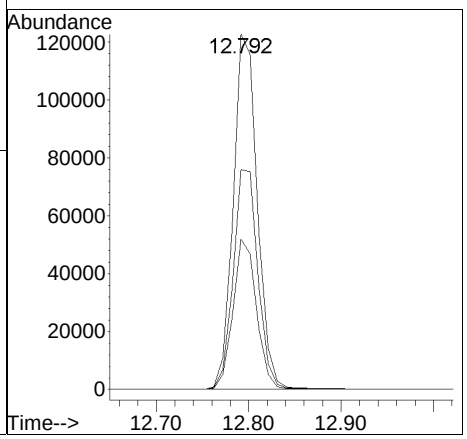


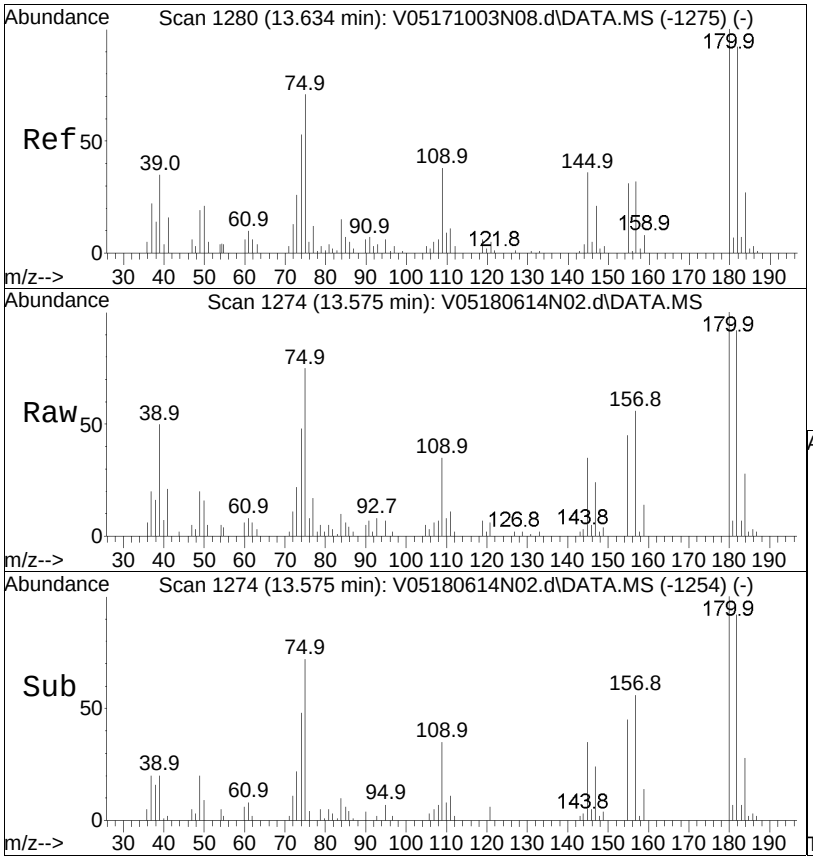


#104
1,2-Dichlorobenzene
Concen: 9.16 ug/L
RT: 12.792 min Scan# 1194
Delta R.T. -0.010 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:146 Resp: 222426

Ion	Ratio	Lower	Upper
146	100		
111	41.3	28.3	58.9
148	63.3	41.9	87.1

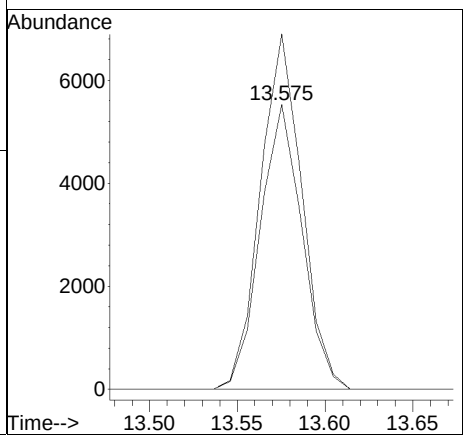


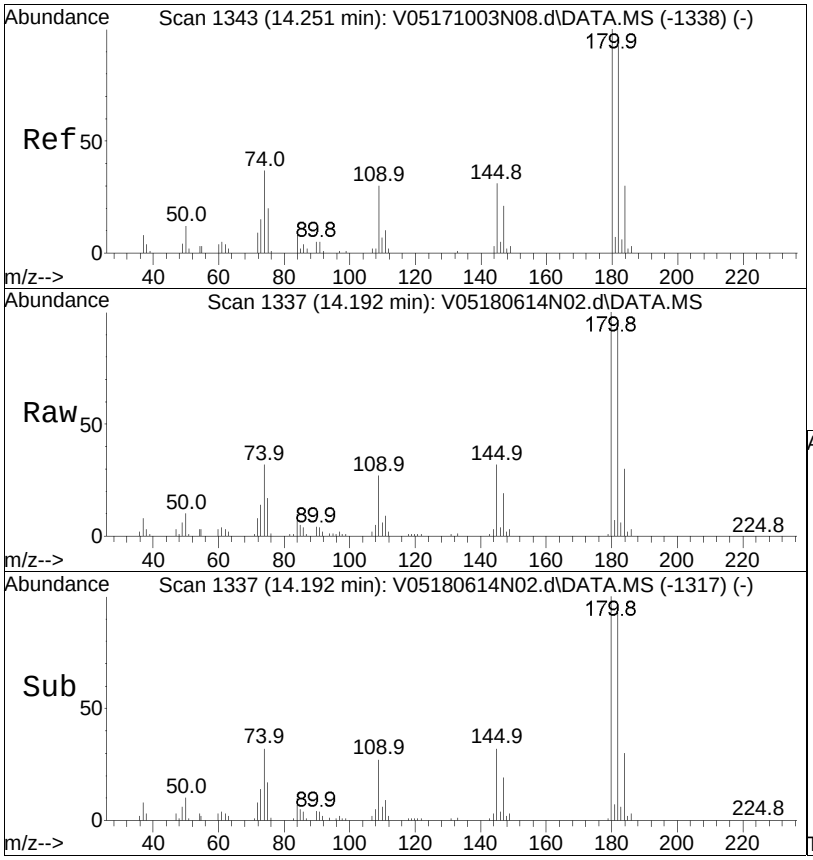


#106
1,2-Dibromo-3-chloropropane
Concen: 7.70 ug/L
RT: 13.575 min Scan# 1274
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:155 Resp: 9188

Ion	Ratio	Lower	Upper
155	100		
157	123.5	96.6	145.0

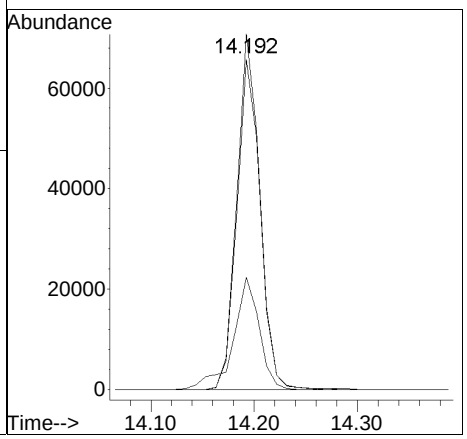


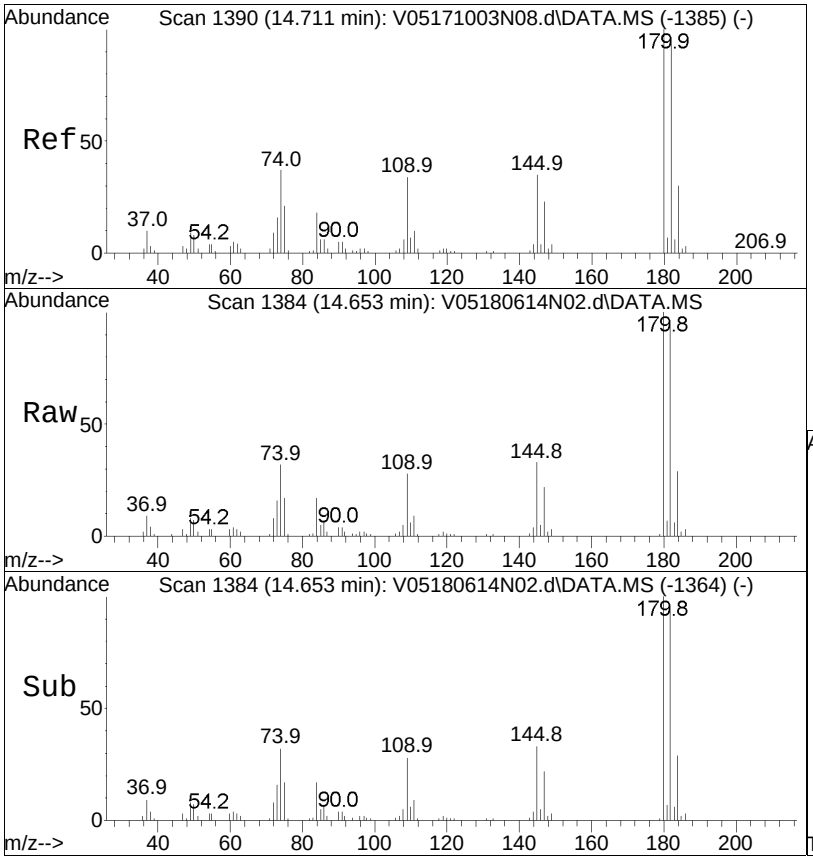


#109
1,2,4-Trichlorobenzene
Concen: 9.61 ug/L
RT: 14.192 min Scan# 1337
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:180 Resp: 109528

Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.3	114.5
145	35.5	31.0	46.4

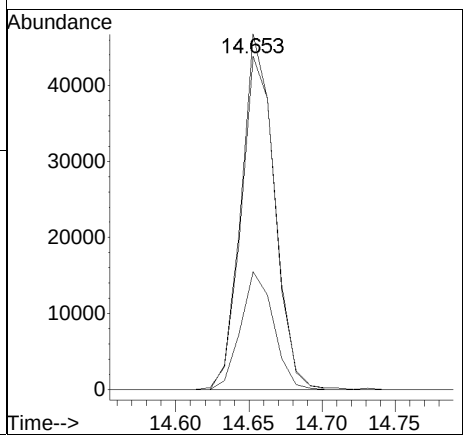




#111
1,2,3-Trichlorobenzene
Concen: 9.67 ug/L
RT: 14.653 min Scan# 1384
Delta R.T. 0.000 min
Lab File: V05180614N02.d
Acq: 14 Jun 2018 7:05 pm

Tgt Ion:180 Resp: 73579

Ion	Ratio	Lower	Upper
180	100		
182	96.6	76.2	114.2
145	32.9	28.2	42.2



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N03.d
Acq On : 14 Jun 2018 7:30 pm
Operator : VOA105:KD
Sample : WG1126396-4,31,10,10
Misc : WG1126396,ICAL14750
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 20:07:25 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.154	96	679186	10.000	ug/L	0.00
Standard Area 1 = 682856			Recovery =	99.46%		
59) Chlorobenzene-d5	9.686	117	523124	10.000	ug/L	0.00
Standard Area 1 = 526943			Recovery =	99.28%		
79) 1,4-Dichlorobenzene-d4	12.360	152	268238	10.000	ug/L	0.00
Standard Area 1 = 267847			Recovery =	100.15%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.342	113	180972	9.922	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.22%		
43) 1,2-Dichloroethane-d4	5.880	65	210257	9.717	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.17%		
60) Toluene-d8	7.836	98	673523	9.912	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.12%		
83) 4-Bromofluorobenzene	11.165	95	254821	10.034	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.34%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.713	85	106798	10.831	ug/L	99
3) Chloromethane	1.909	50	95266	9.221	ug/L	100
4) Vinyl chloride	1.997	62	110233	10.180	ug/L	90
5) Bromomethane	2.320	94	34511	7.362	ug/L	97
6) Chloroethane	2.437	64	55062	10.031	ug/L	98
7) Trichlorofluoromethane	2.574	101	160770	9.535	ug/L	99
10) 1,1-Dichloroethene	3.073	96	102336	9.746	ug/L	92
11) Carbon disulfide	3.102	76	241115	9.831	ug/L	99
12) Freon-113	3.112	101	113370	9.745	ug/L #	75
15) Methylene chloride	3.640	84	114686	9.406	ug/L	97
17) Acetone	3.689	43	20936	9.207	ug/L	96
18) trans-1,2-Dichloroethene	3.787	96	115917	9.471	ug/L	95
19) Methyl acetate	3.806	43	53467	9.534	ug/L	95
20) Methyl tert-butyl ether	3.885	73	239508	9.950	ug/L	97
23) 1,1-Dichloroethane	4.383	63	219680	9.252	ug/L	99
28) cis-1,2-Dichloroethene	4.902	96	132948	9.790	ug/L	93
30) Bromochloromethane	5.097	128	61186	9.744	ug/L	87
31) Cyclohexane	5.088	56	176983	9.713	ug/L	93
32) Chloroform	5.166	83	221848	9.309	ug/L	99
34) Carbon tetrachloride	5.293	117	176935	9.713	ug/L	98

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N03.d
Acq On : 14 Jun 2018 7:30 pm
Operator : VOA105:KD
Sample : WG1126396-4,31,10,10
Misc : WG1126396,ICAL14750
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 20:07:25 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA105\2018\180614N\V05180614N02.d
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	5.362	97	205531	9.403	ug/L	98
39) 2-Butanone	5.469	43	31406	9.987	ug/L	90
41) Benzene	5.733	78	478561	9.558	ug/L	98
44) 1,2-Dichloroethane	5.939	62	169028	9.289	ug/L	100
47) Methyl cyclohexane	6.300	83	145750	9.727	ug/L	94
48) Trichloroethene	6.320	95	128399	9.148	ug/L	94
51) 1,2-Dichloropropane	6.878	63	119913	9.530	ug/L	98
54) Bromodichloromethane	6.946	83	155688	9.235	ug/L	100
57) 1,4-Dioxane	7.161	88	35866	628.048	ug/L	93
58) cis-1,3-Dichloropropene	7.640	75	179847	9.713	ug/L	98
61) Toluene	7.895	92	308304	9.394	ug/L	98
62) 4-Methyl-2-pentanone	8.335	58	20964	9.344	ug/L	98
63) Tetrachloroethene	8.345	166	131374	9.379	ug/L	94
65) trans-1,3-Dichloropropene	8.394	75	152087	8.565	ug/L	99
68) 1,1,2-Trichloroethane	8.579	83	83229	9.966	ug/L	97
69) Chlorodibromomethane	8.785	129	102522	8.197	ug/L	99
71) 1,2-Dibromoethane	9.069	107	88001	9.762	ug/L	100
72) 2-Hexanone	9.343	43	39680	9.088	ug/L	96
73) Chlorobenzene	9.706	112	341415	9.262	ug/L	92
74) Ethylbenzene	9.735	91	577964	9.250	ug/L	97
76) p/m Xylene	9.921	106	457262	19.348	ug/L	92
77) o Xylene	10.460	106	429730	19.485	ug/L	93
78) Styrene	10.529	104	703281	19.797	ug/L	98
80) Bromoform	10.568	173	50400	7.717	ug/L	98
82) Isopropylbenzene	10.832	105	538337	9.587	ug/L	99
87) 1,1,2,2-Tetrachloroethane	11.410	83	90001	9.738	ug/L	98
100) 1,3-Dichlorobenzene	12.282	146	260711	9.442	ug/L	98
101) 1,4-Dichlorobenzene	12.370	146	270528	9.399	ug/L	98
104) 1,2-Dichlorobenzene	12.791	146	232493	9.562	ug/L	98
106) 1,2-Dibromo-3-chloropr...	13.575	155	9392	7.852	ug/L	95
109) 1,2,4-Trichlorobenzene	14.192	180	115956	10.156	ug/L	97
111) 1,2,3-Trichlorobenzene	14.653	180	78893	10.358	ug/L	97

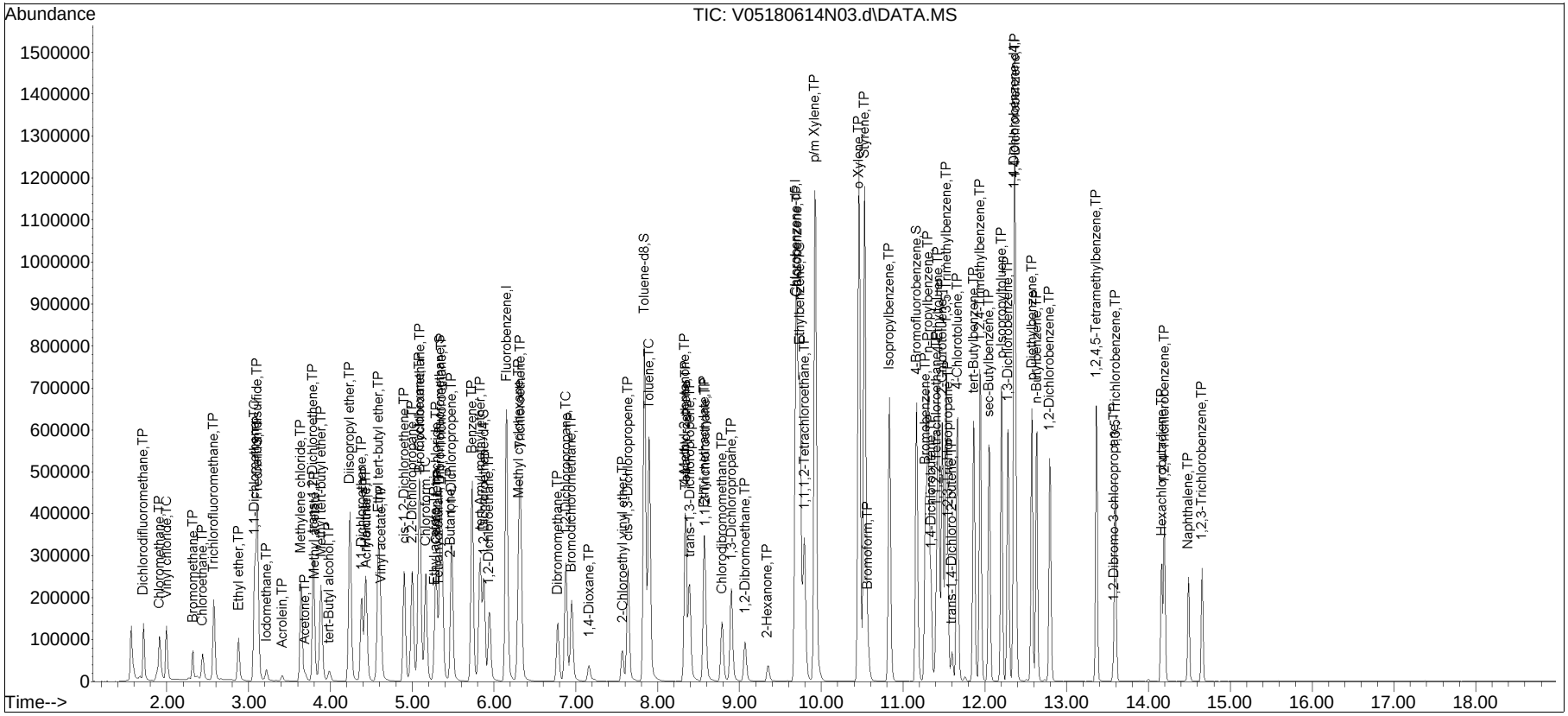
(#) = qualifier out of range (m) = manual integration (+) = signals summed

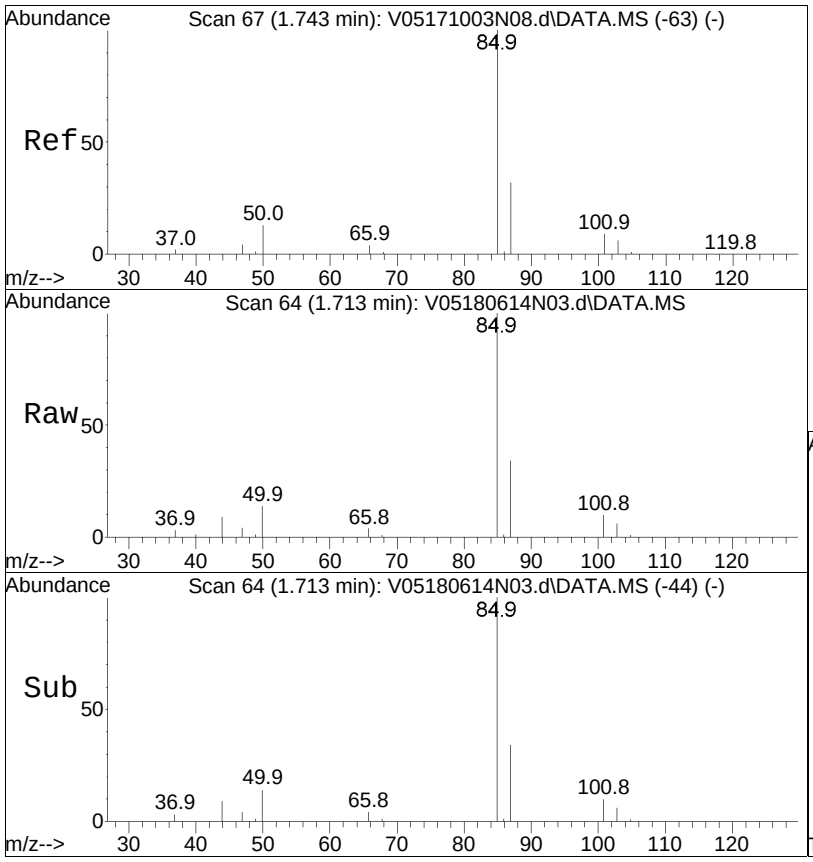
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA105\2018\180614N\
Data File : V05180614N03.d
Acq On : 14 Jun 2018 7:30 pm
Operator : VOA105:KD
Sample : WG1126396-4,31,10,10
Misc : WG1126396,ICAL14750
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 20:07:25 2018
Quant Method : I:\VOLATILES\VOA105\2018\180614N\V105_180530N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Thu May 31 11:54:28 2018
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox80614N\V05180614N02.d•

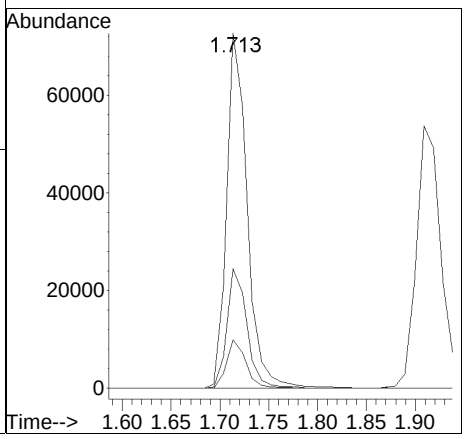


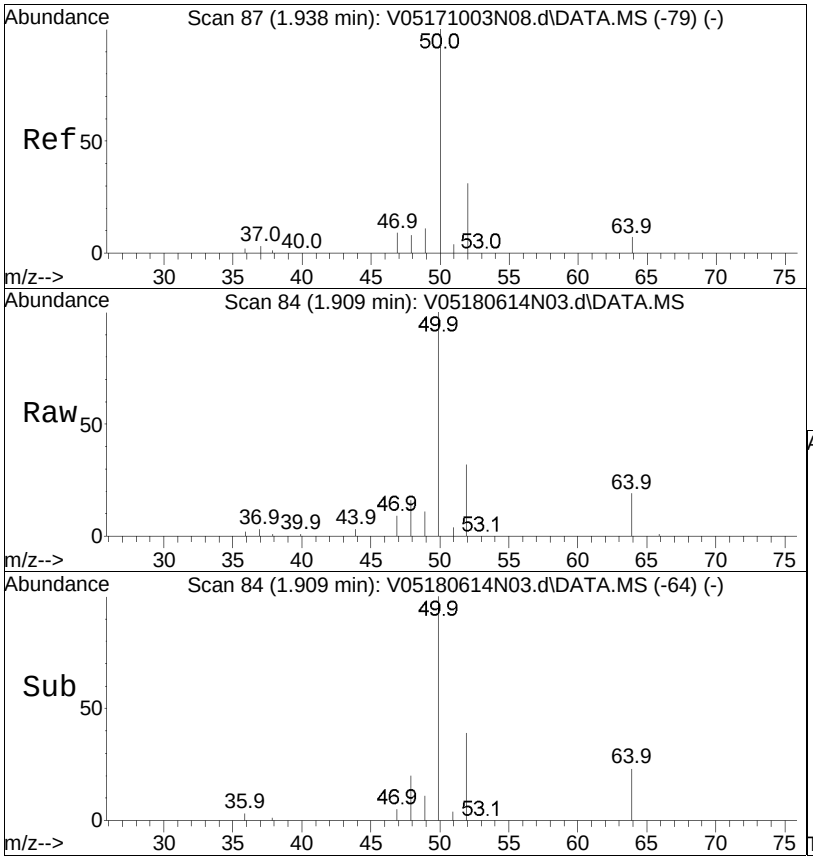


#2
Dichlorodifluoromethane
Concen: 10.83 ug/L
RT: 1.713 min Scan# 64
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 85 Resp: 106798

Ion	Ratio	Lower	Upper
85	100		
87	32.9	21.3	44.1
50	13.0	8.7	18.1

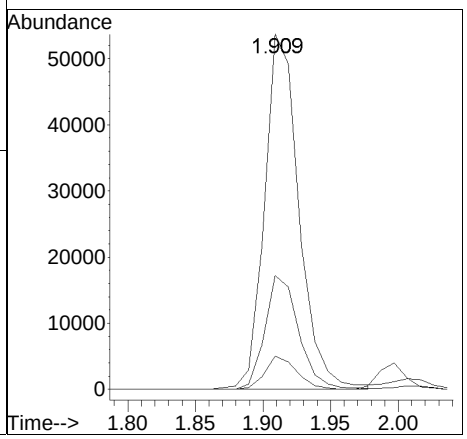


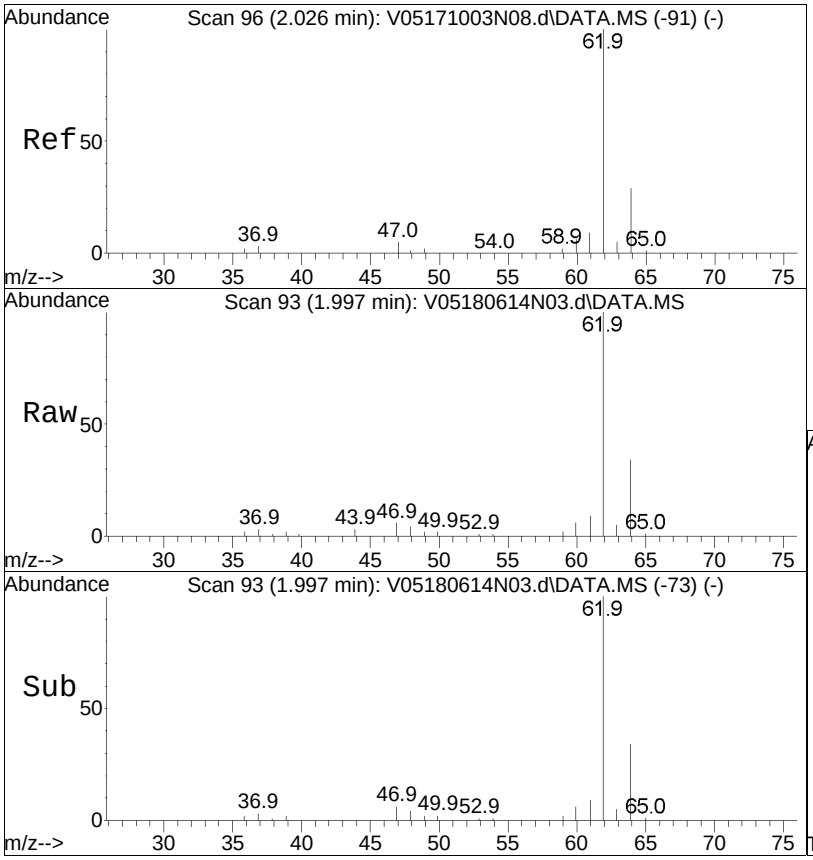


#3
Chloromethane
Concen: 9.22 ug/L
RT: 1.909 min Scan# 84
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 50 Resp: 95266

Ion	Ratio	Lower	Upper
50	100		
52	31.4	11.4	51.4
47	8.7	0.0	28.0

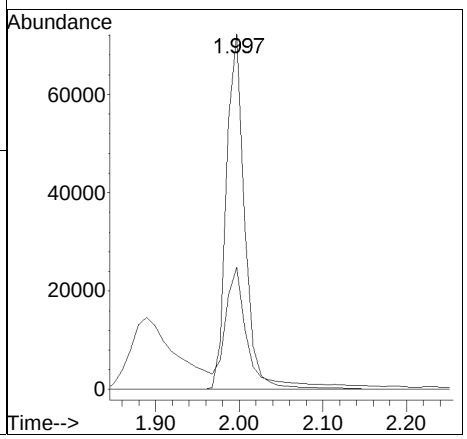


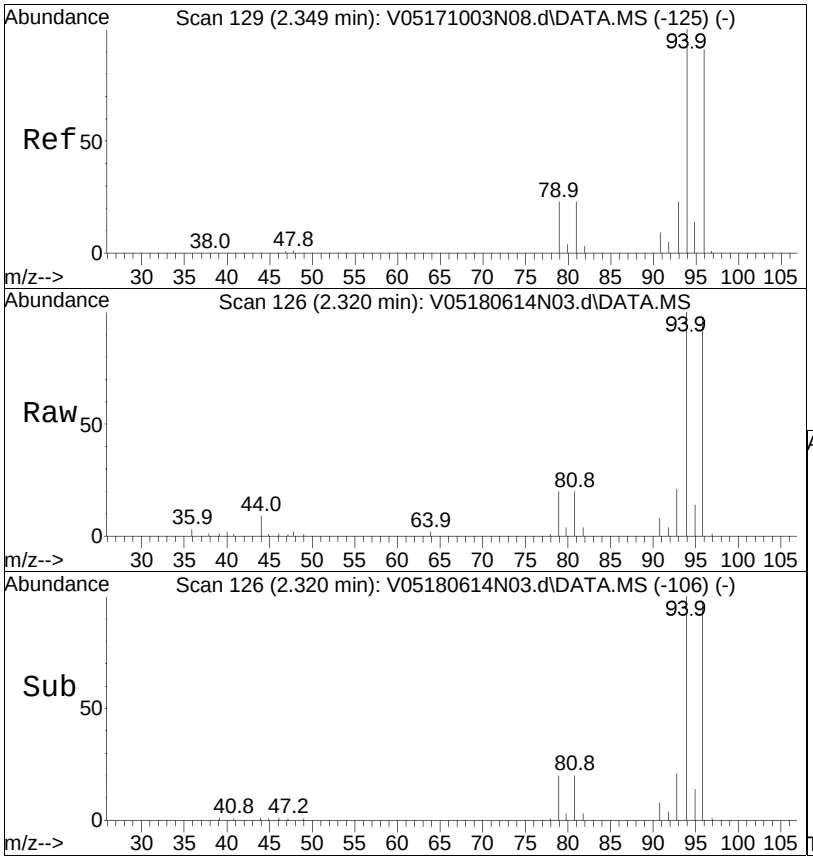


#4
Vinyl chloride
Concen: 10.18 ug/L
RT: 1.997 min Scan# 93
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 62 Resp: 110233

Ion	Ratio	Lower	Upper
62	100		
64	39.5	13.8	53.8

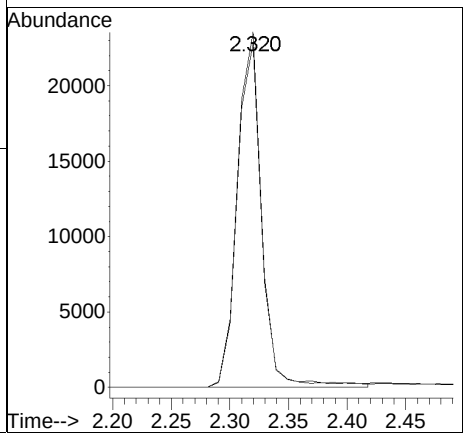


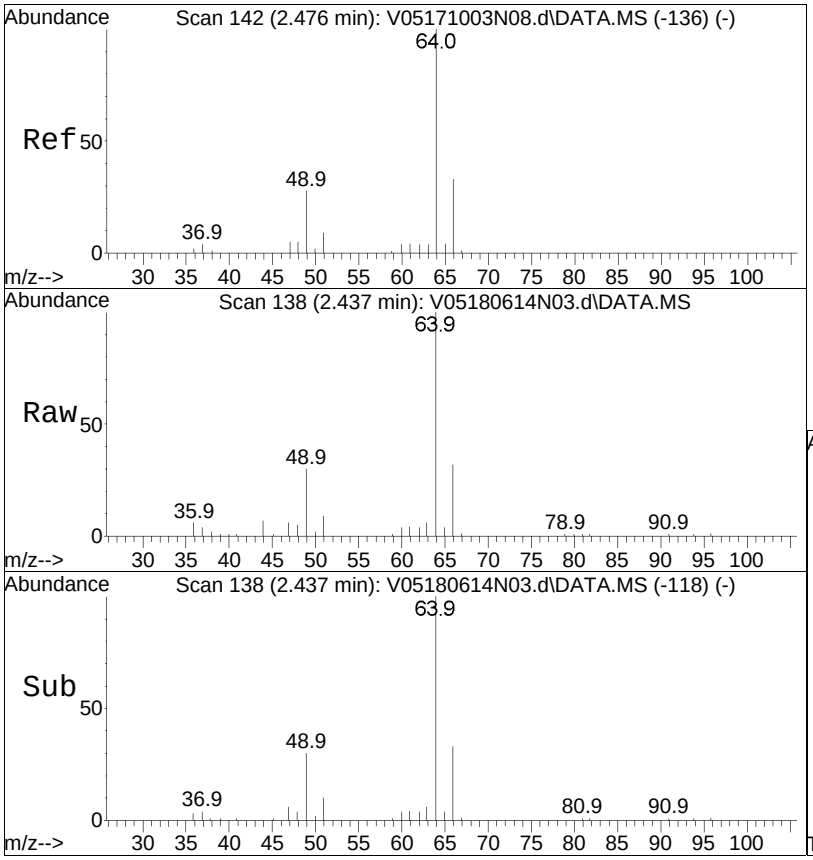


#5
Bromomethane
Concen: 7.36 ug/L
RT: 2.320 min Scan# 126
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 94 Resp: 34511

Ion	Ratio	Lower	Upper
94	100		
96	96.4	73.1	113.1

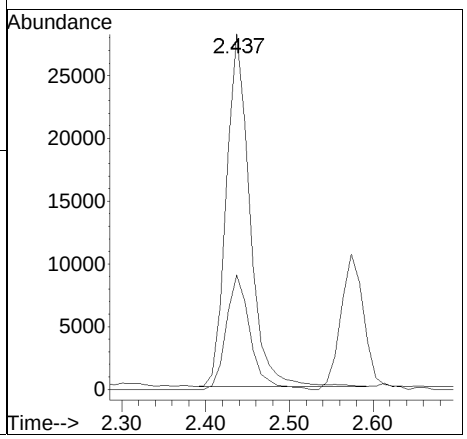


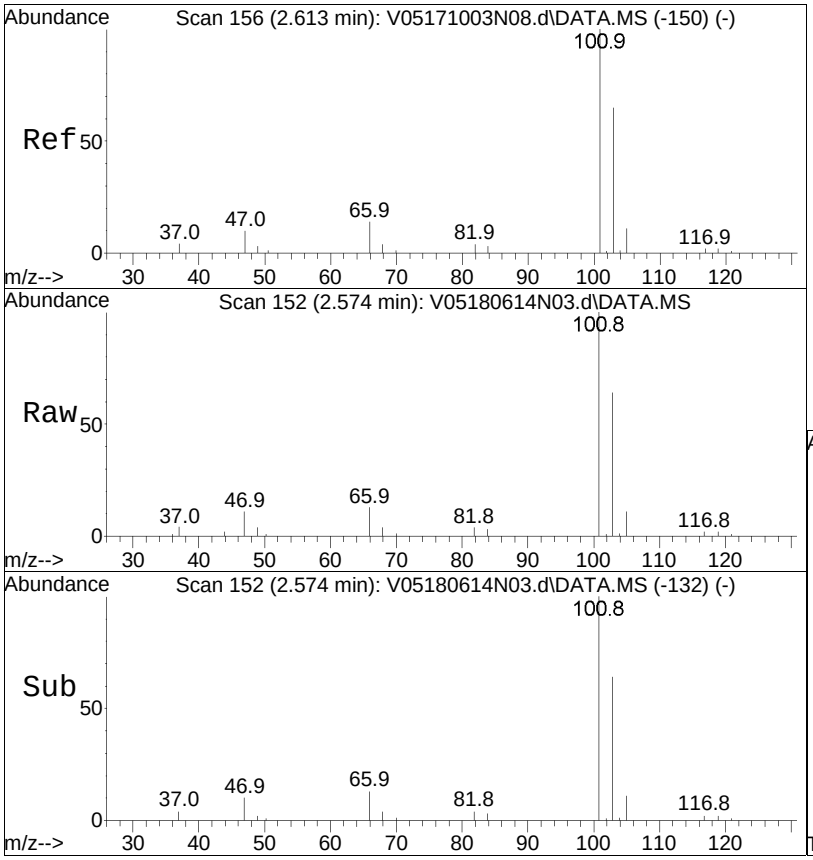


#6
Chloroethane
Concen: 10.03 ug/L
RT: 2.437 min Scan# 138
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 64 Resp: 55062

Ion	Ratio	Lower	Upper
64	100		
66	32.7	13.7	53.7

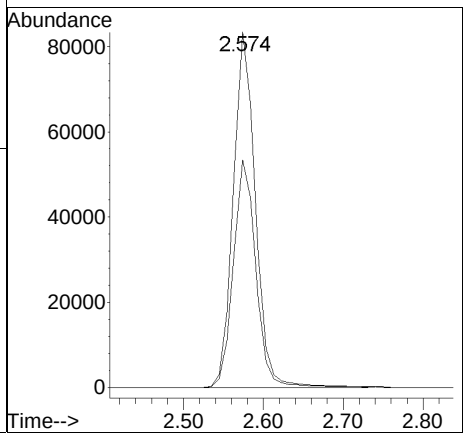


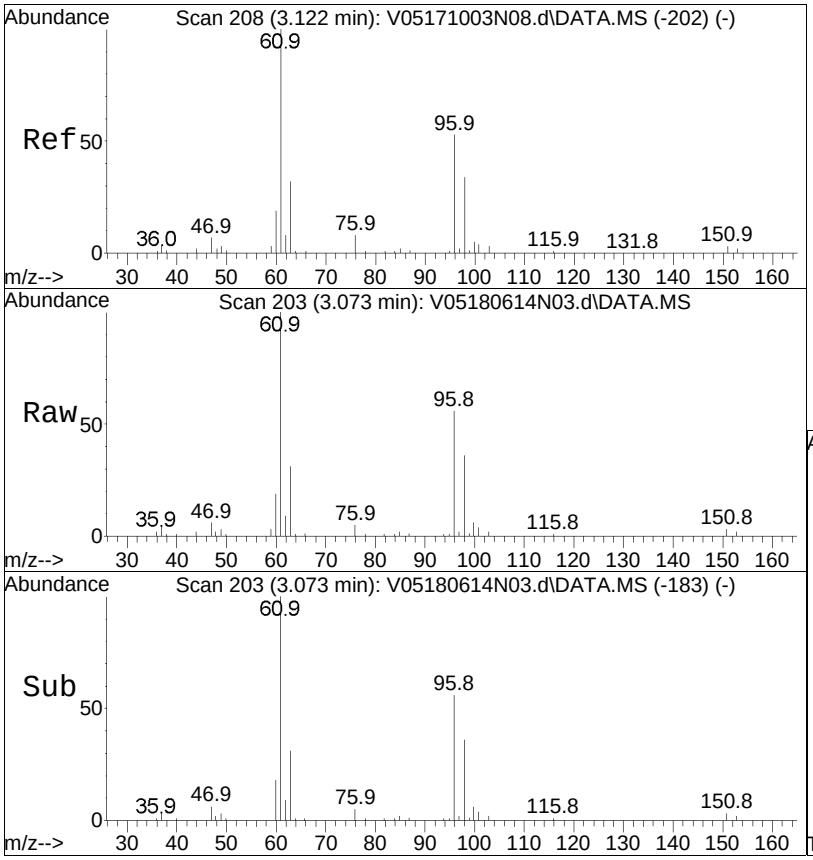


#7
Trichlorofluoromethane
Concen: 9.54 ug/L
RT: 2.574 min Scan# 152
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:101 Resp: 160770

Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.6	79.0

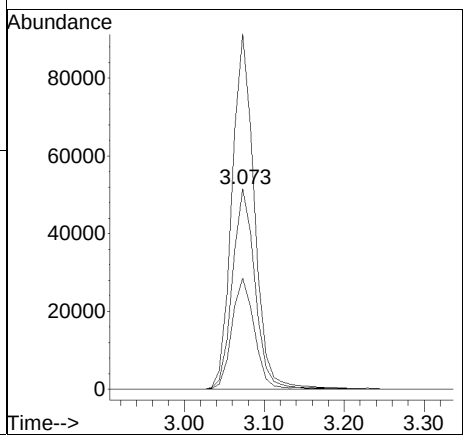


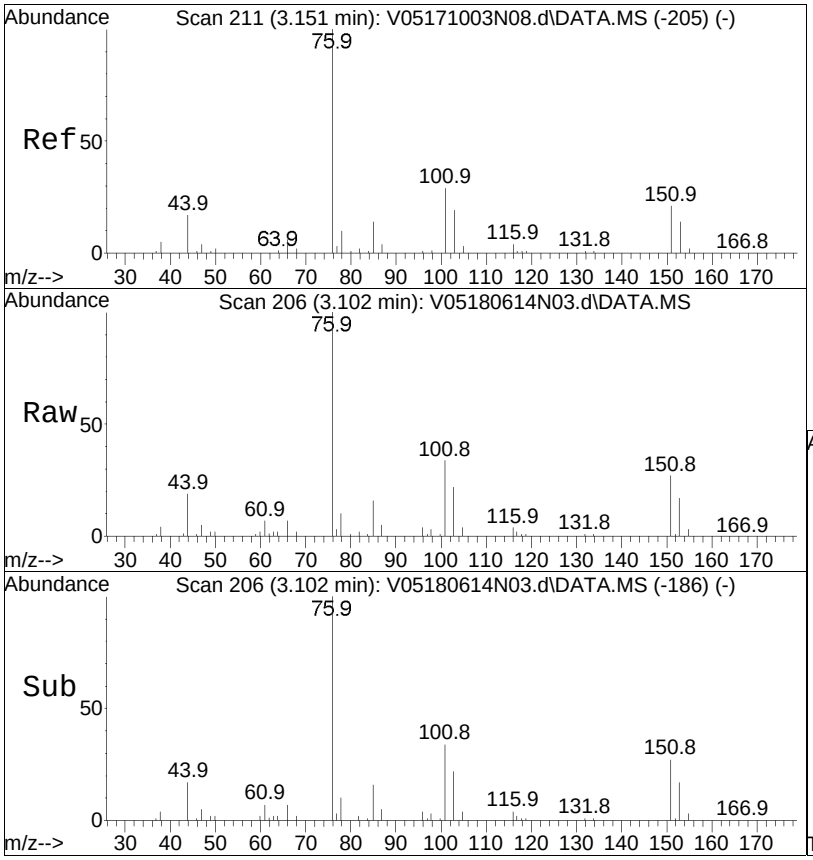


#10
1,1-Dichloroethene
Concen: 9.75 ug/L
RT: 3.073 min Scan# 203
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 96 Resp: 102336

Ion	Ratio	Lower	Upper
96	100		
61	174.8	151.0	226.4
63	55.7	47.7	71.5

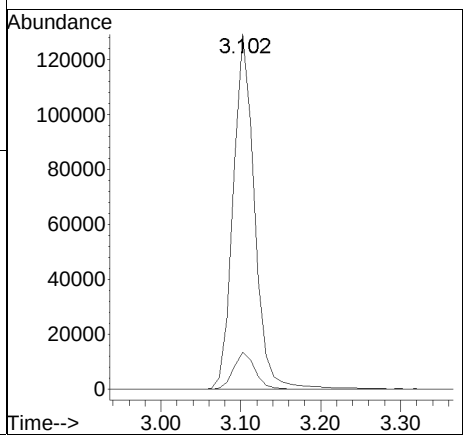


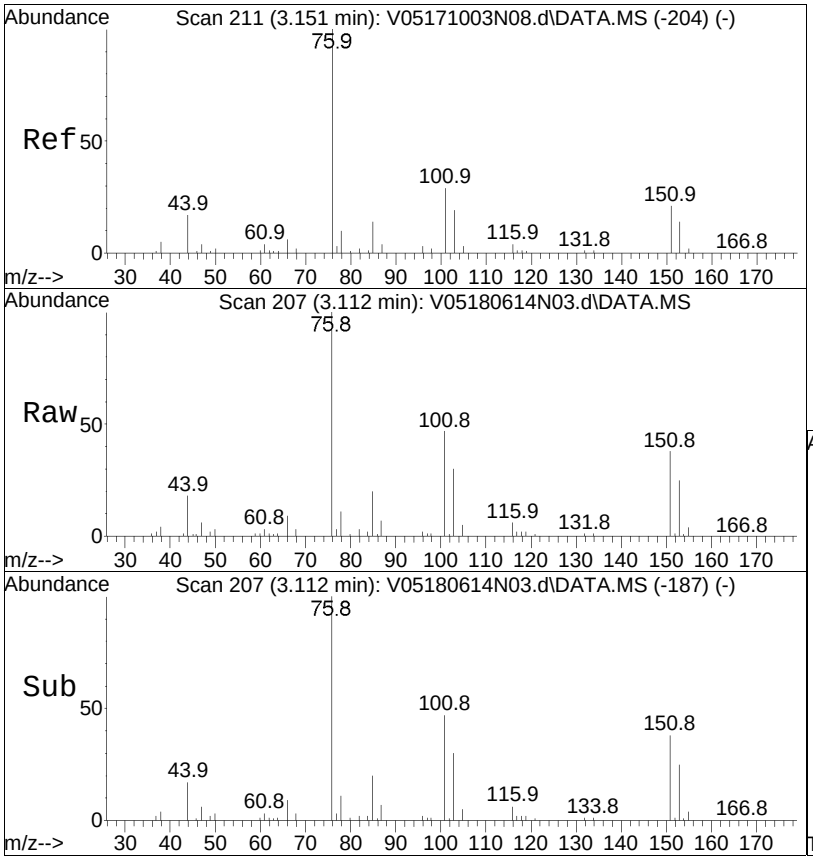


#11
Carbon disulfide
Concen: 9.83 ug/L
RT: 3.102 min Scan# 206
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 76 Resp: 241115

Ion	Ratio	Lower	Upper
76	100		
78	10.7	6.7	13.9

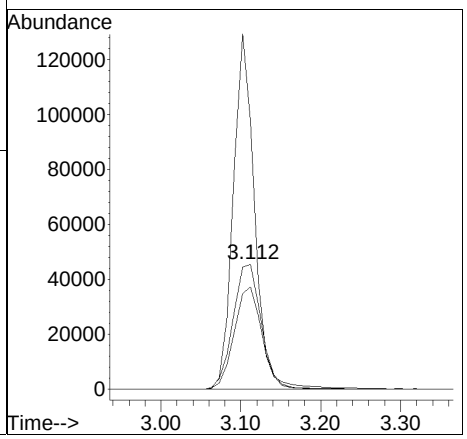


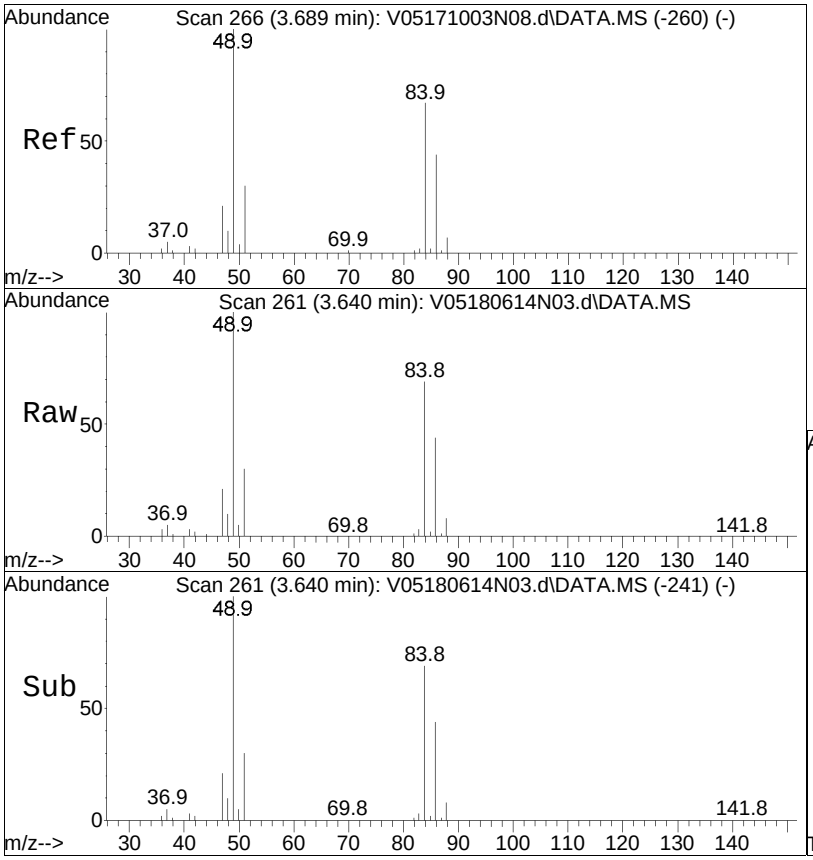


#12
Freon-113
Concen: 9.74 ug/L
RT: 3.112 min Scan# 207
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:101 Resp: 113370

Ion	Ratio	Lower	Upper
101	100		
151	79.9	59.2	88.8
76	212.8	213.0	319.4#

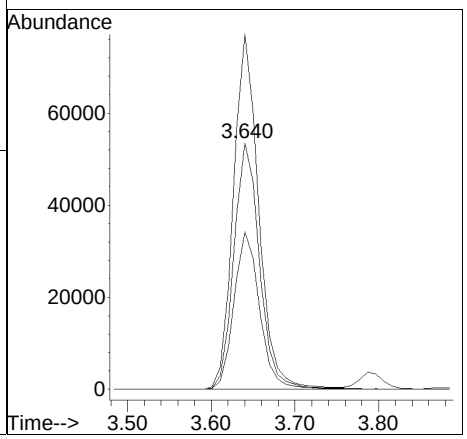


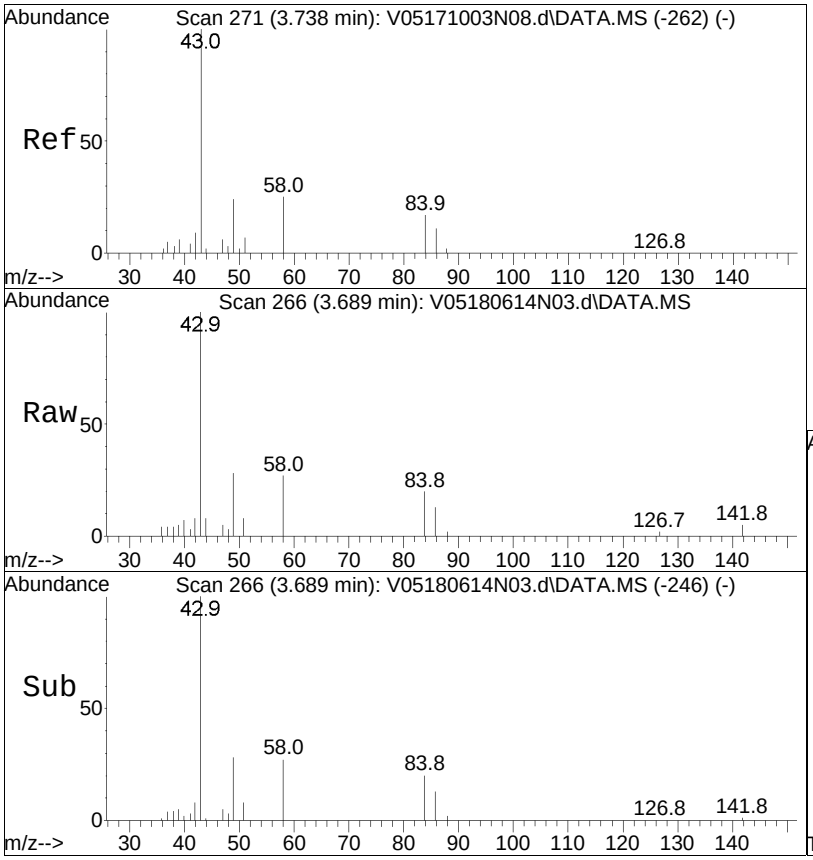


#15
Methylene chloride
Concen: 9.41 ug/L
RT: 3.640 min Scan# 261
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 84 Resp: 114686

Ion	Ratio	Lower	Upper
84	100		
86	63.8	41.9	86.9
49	141.2	95.1	197.5

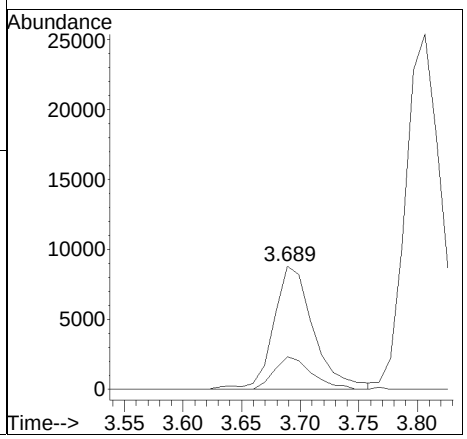


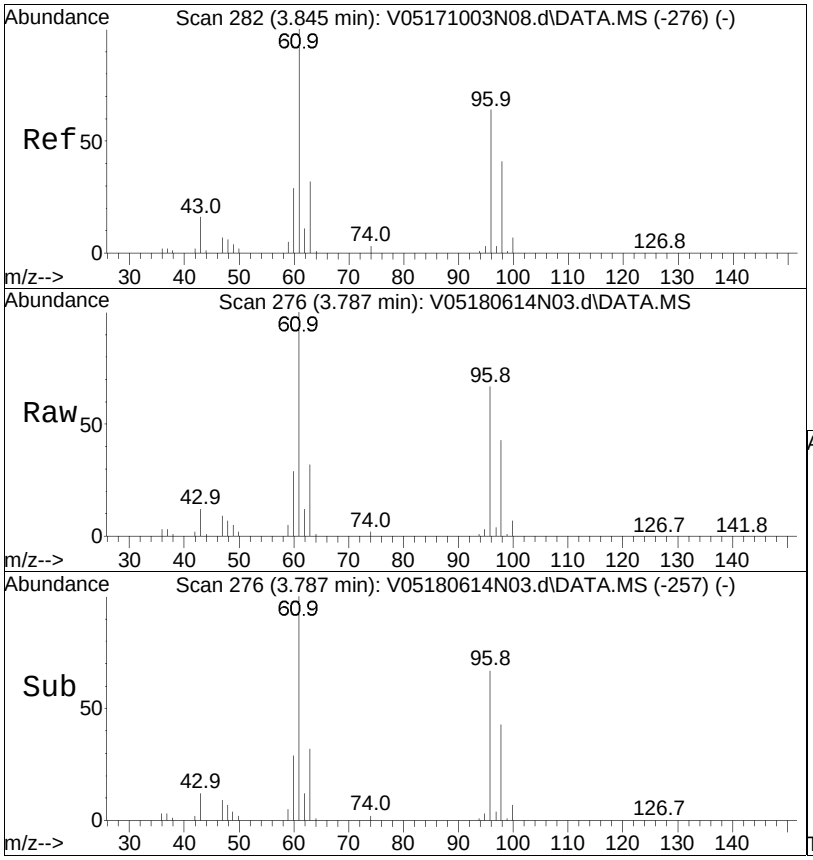


#17
Acetone
Concen: 9.21 ug/L
RT: 3.689 min Scan# 266
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 43 Resp: 20936

Ion	Ratio	Lower	Upper
43	100		
58	24.9	18.5	27.7

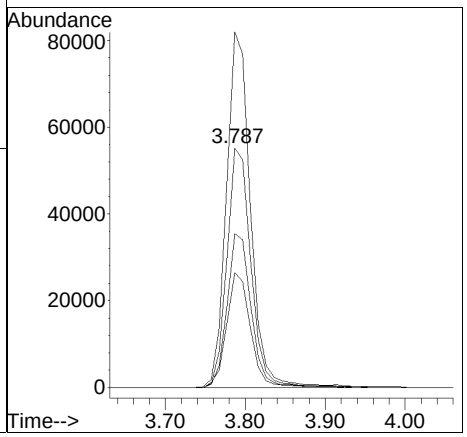


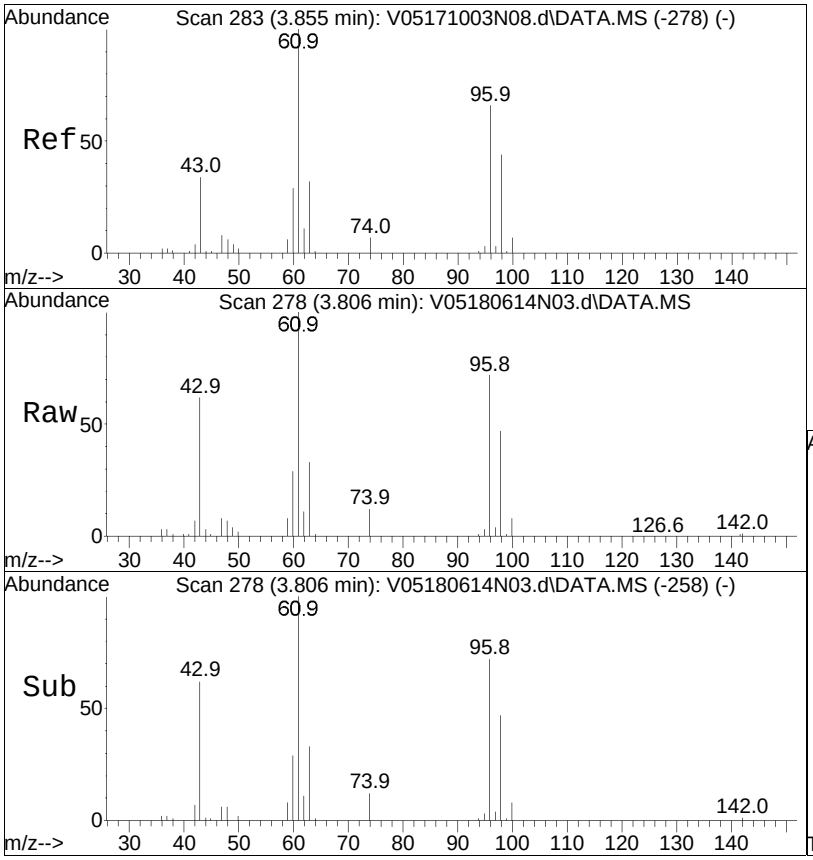


#18
trans-1,2-Dichloroethene
Concen: 9.47 ug/L
RT: 3.787 min Scan# 276
Delta R.T. -0.010 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 96 Resp: 115917

Ion	Ratio	Lower	Upper
96	100		
61	148.3	102.0	211.8
98	64.3	41.9	87.1
63	47.6	32.6	67.8

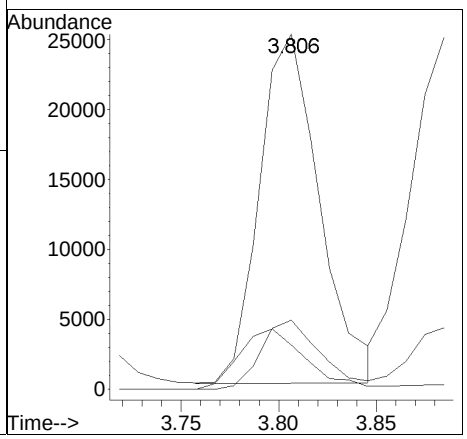


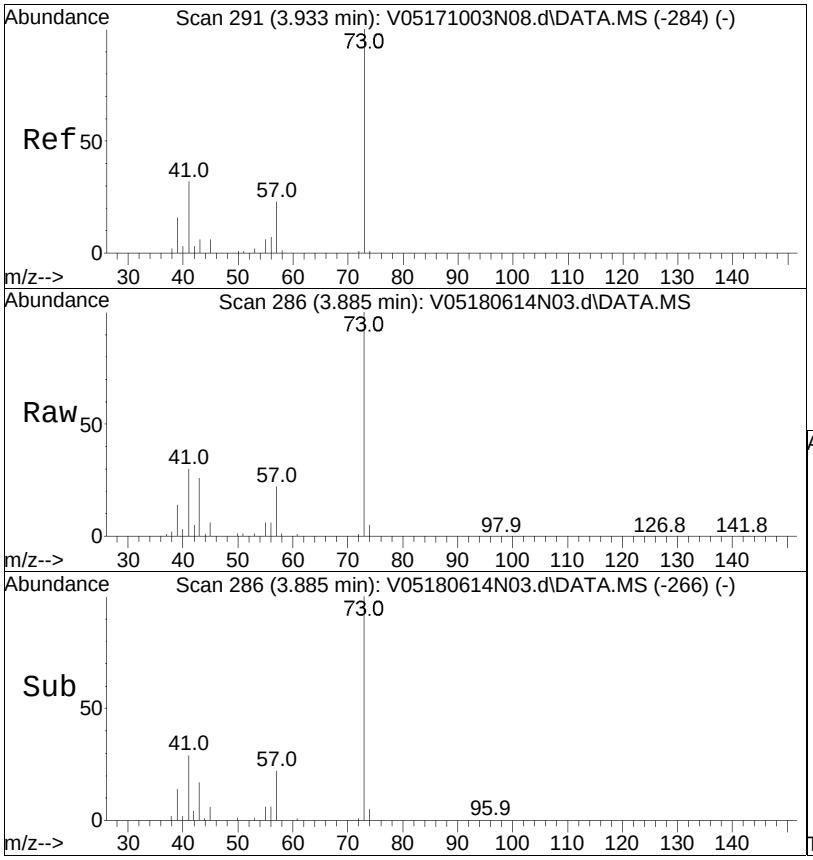


#19
Methyl acetate
Concen: 9.53 ug/L
RT: 3.806 min Scan# 278
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 43 Resp: 53467

Ion	Ratio	Lower	Upper
43	100		
74	19.8	15.3	22.9
59	19.2	18.6	28.0

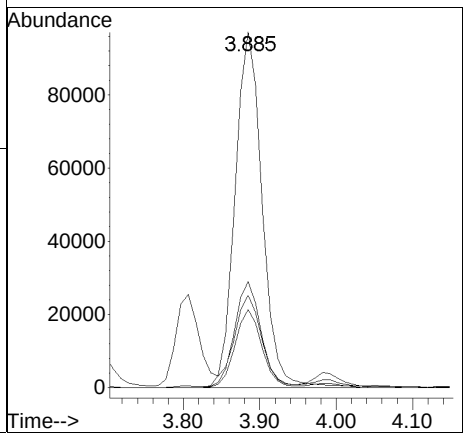


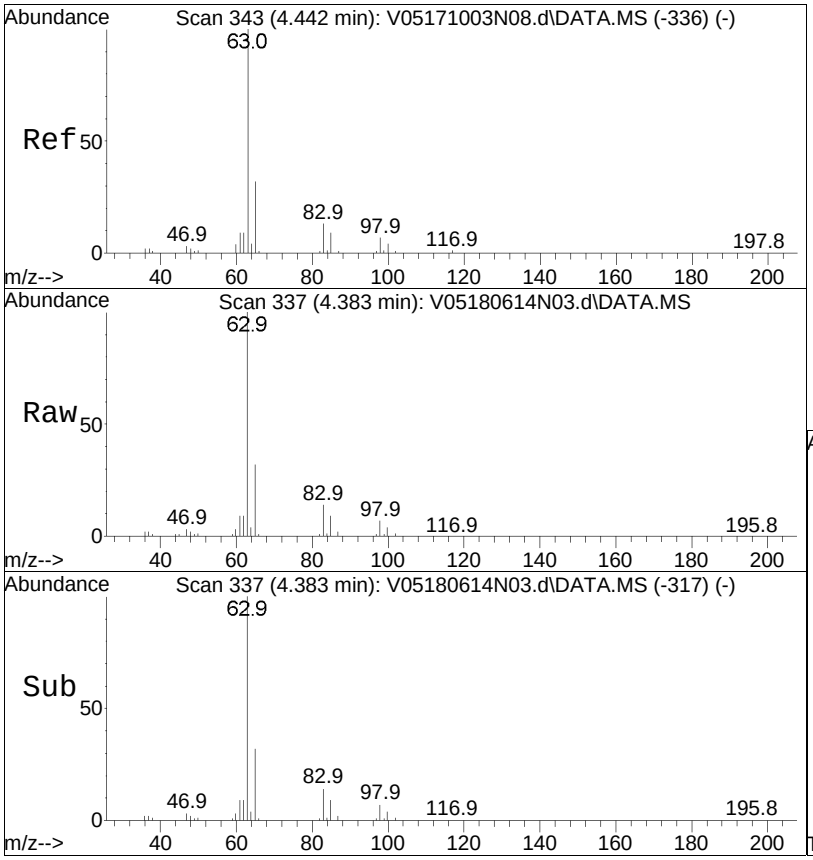


#20
Methyl tert-butyl ether
Concen: 9.95 ug/L
RT: 3.885 min Scan# 286
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 73 Resp: 239508

Ion	Ratio	Lower	Upper
73	100		
57	21.6	14.3	29.7
43	24.9	16.8	35.0
41	28.7	20.9	43.3

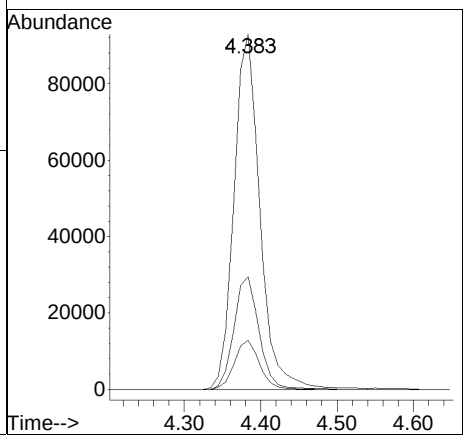


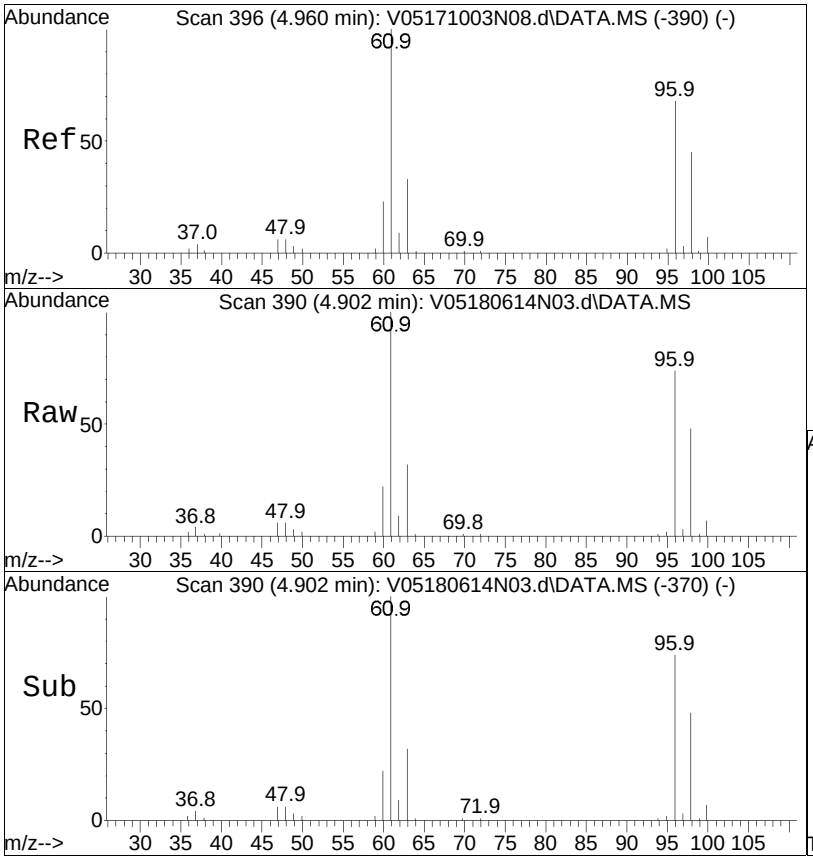


#23
1,1-Dichloroethane
Concen: 9.25 ug/L
RT: 4.383 min Scan# 337
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 63 Resp: 219680

Ion	Ratio	Lower	Upper
63	100		
65	30.7	11.6	51.6
83	13.4	0.0	33.0

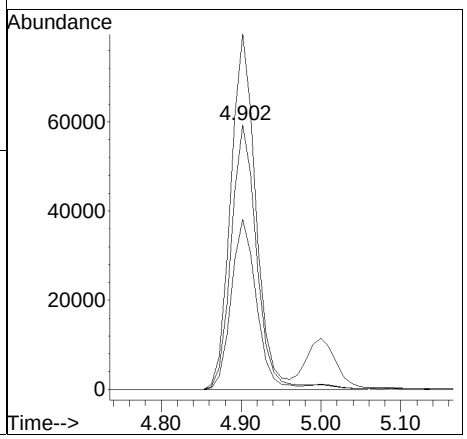


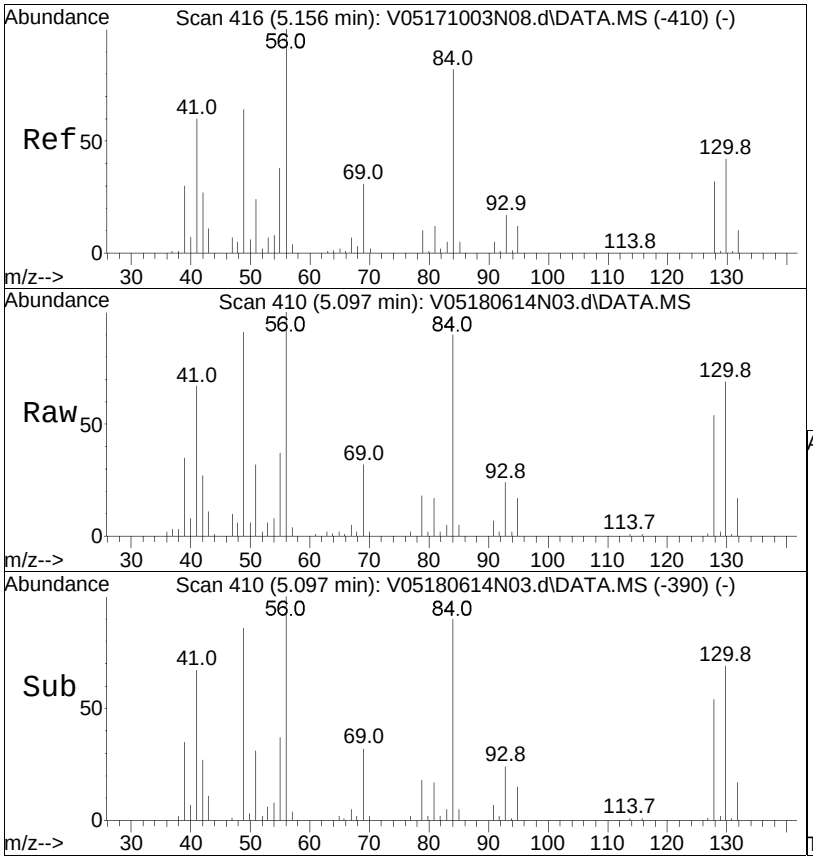


#28
cis-1,2-Dichloroethene
Concen: 9.79 ug/L
RT: 4.902 min Scan# 390
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 96 Resp: 132948

Ion	Ratio	Lower	Upper
96	100		
61	130.2	113.7	170.5
98	62.7	51.2	76.8

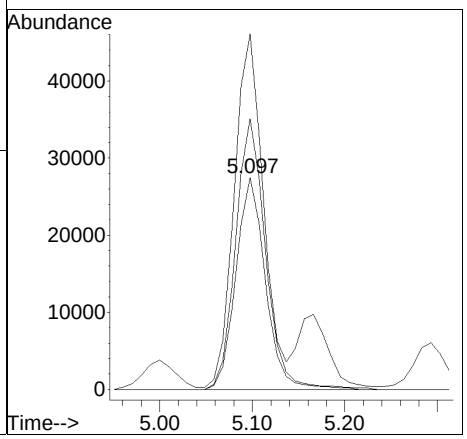


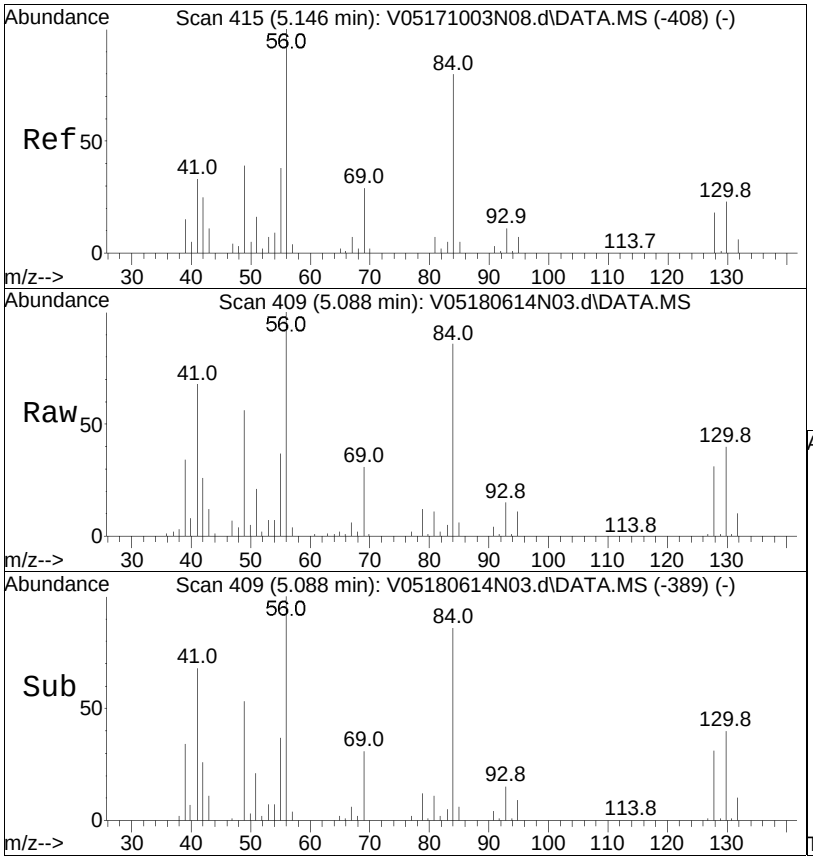


#30
Bromochloromethane
Concen: 9.74 ug/L
RT: 5.097 min Scan# 410
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:128 Resp: 61186

Ion	Ratio	Lower	Upper
128	100		
49	163.9	155.4	233.0
130	129.1	101.9	152.9

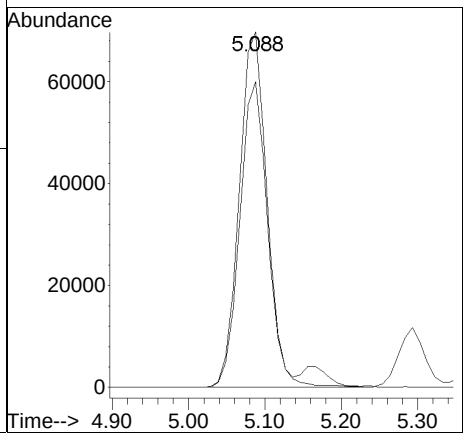


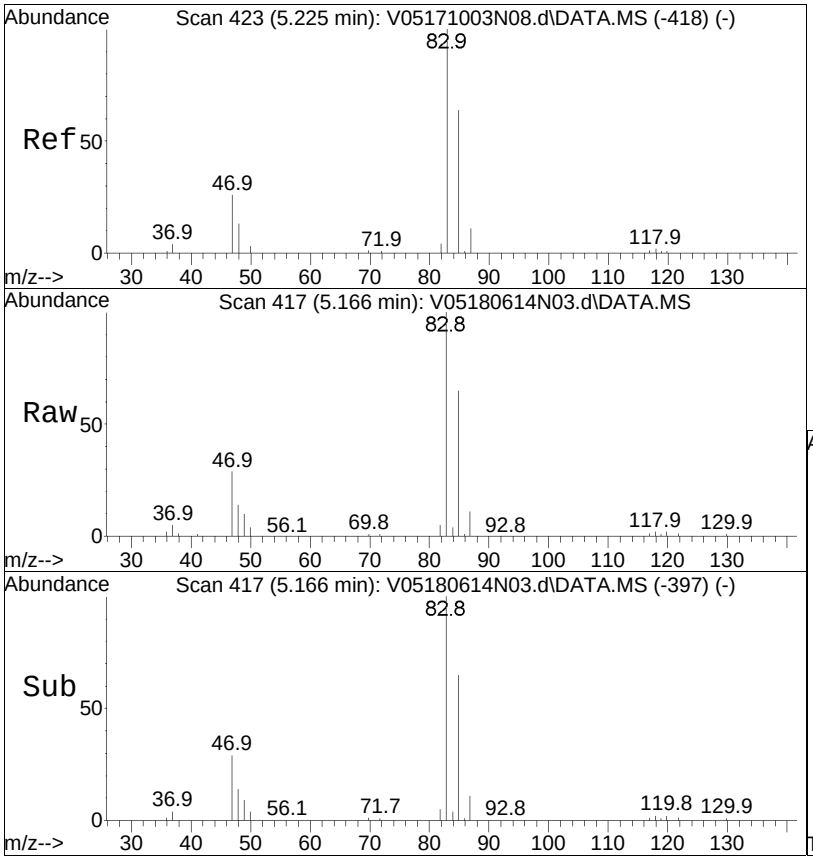


#31
Cyclohexane
Concen: 9.71 ug/L
RT: 5.088 min Scan# 409
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 56 Resp: 176983

Ion	Ratio	Lower	Upper
56	100		
84	85.1	51.3	106.5

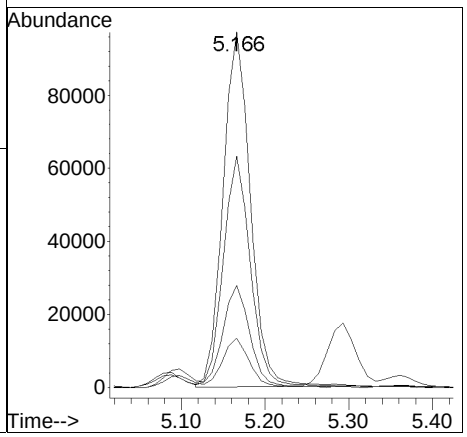


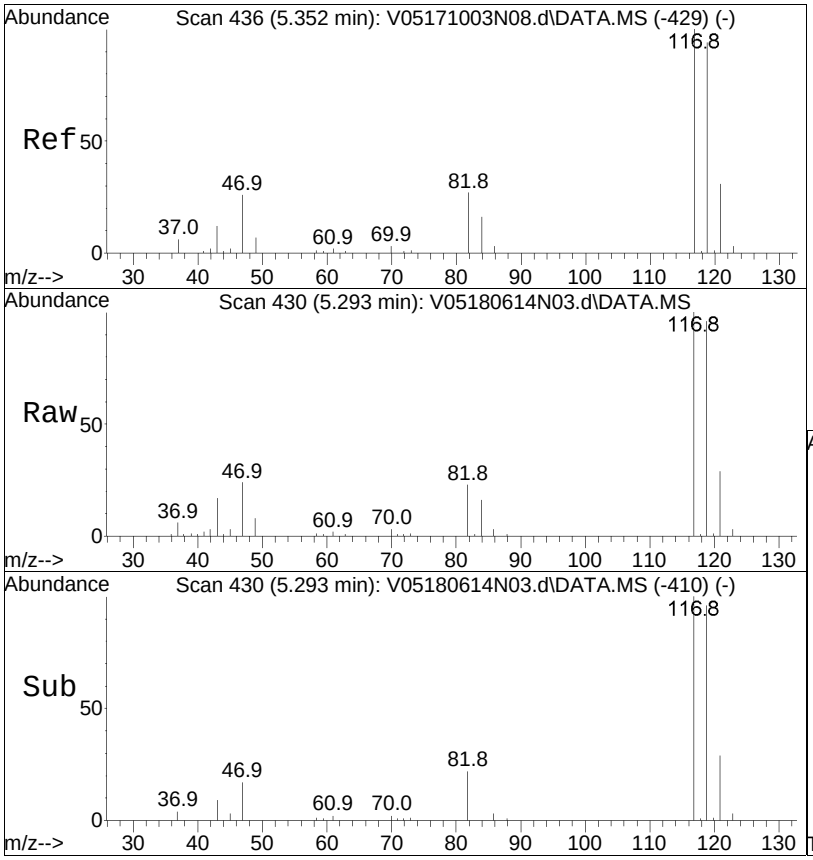


#32
Chloroform
Concen: 9.31 ug/L
RT: 5.166 min Scan# 417
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 83 Resp: 221848

Ion	Ratio	Lower	Upper
83	100		
85	64.5	42.4	88.2
47	26.9	17.9	37.1
48	13.8	9.1	18.9

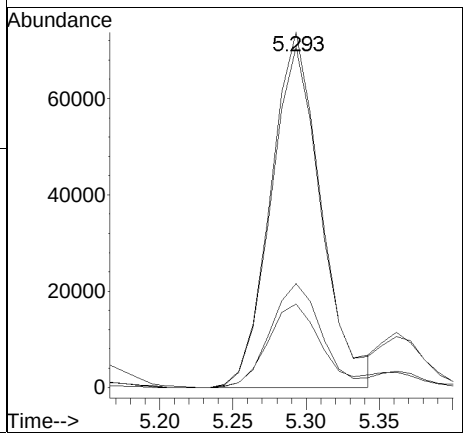


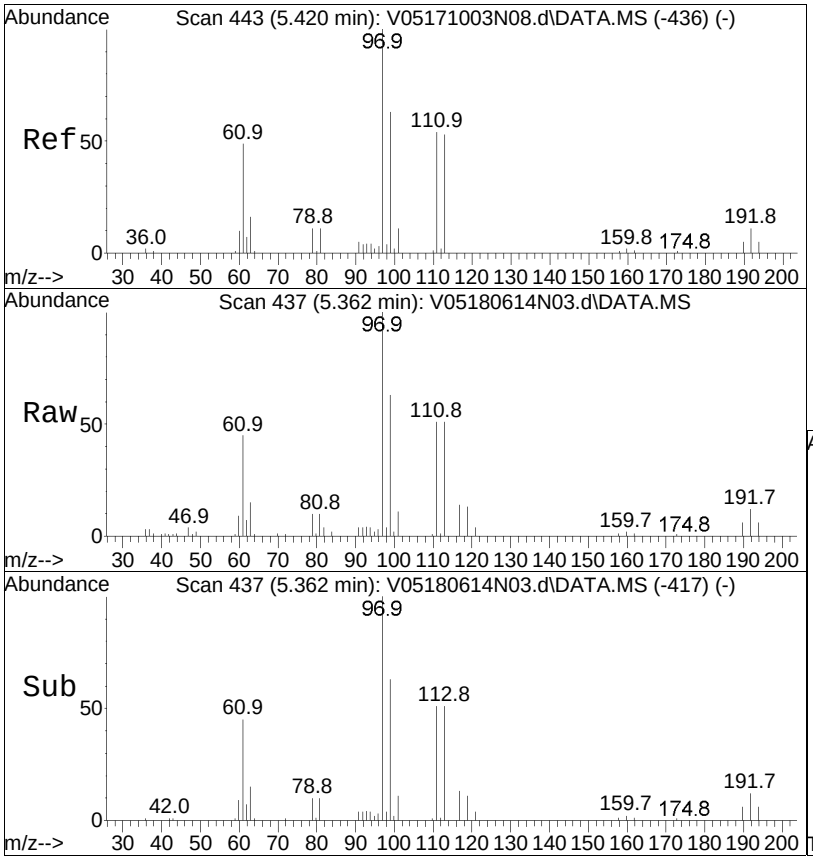


#34
Carbon tetrachloride
Concen: 9.71 ug/L
RT: 5.293 min Scan# 430
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:117 Resp: 176935

Ion	Ratio	Lower	Upper
117	100		
119	95.9	62.2	129.2
121	29.2	20.2	41.9
82	24.5	17.6	36.6

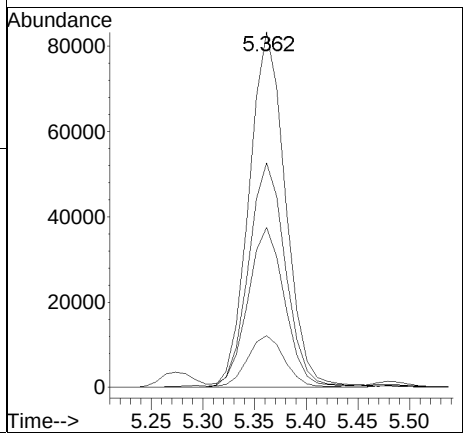


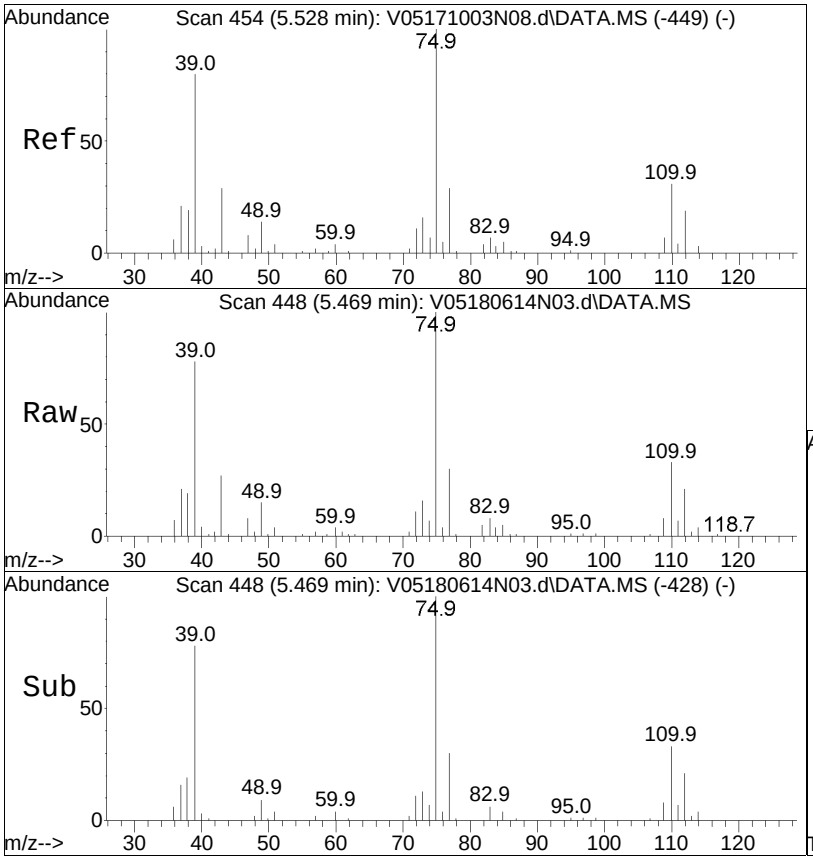


#37
1,1,1-Trichloroethane
Concen: 9.40 ug/L
RT: 5.362 min Scan# 437
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 97 Resp: 205531

Ion	Ratio	Lower	Upper
97	100		
99	64.4	42.3	87.9
61	45.4	31.3	64.9
63	14.9	10.1	20.9

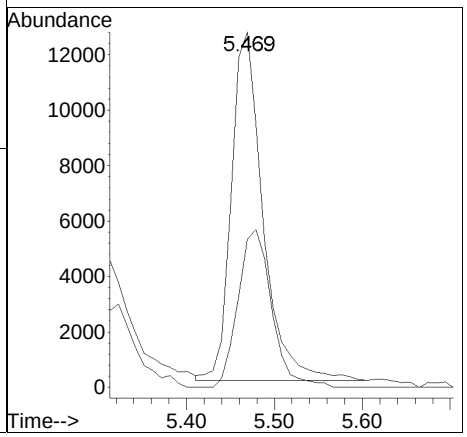


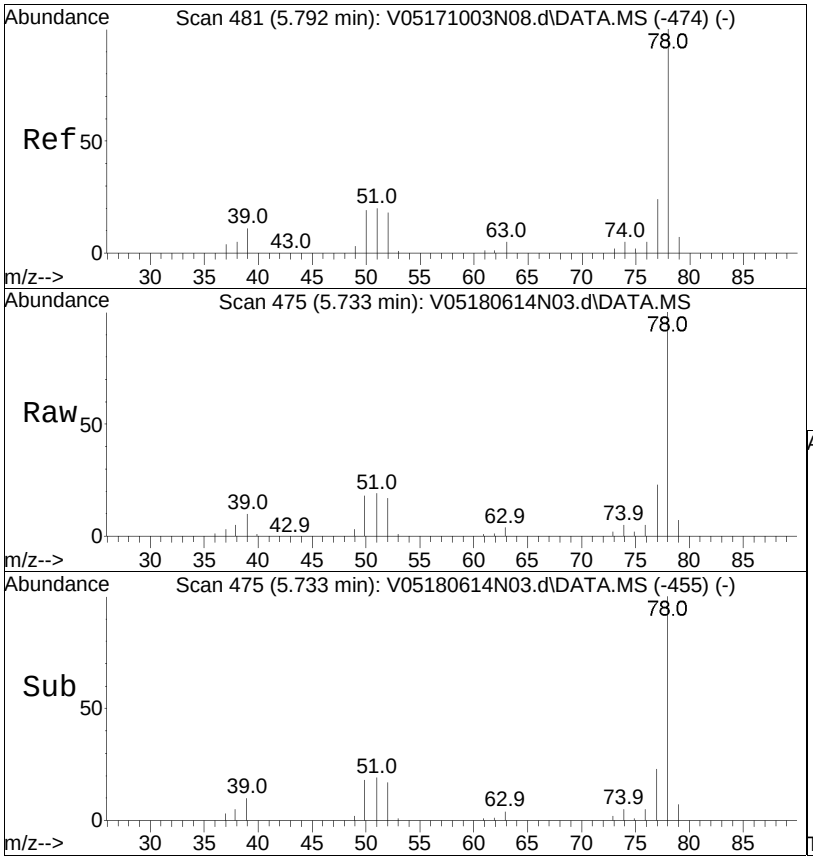


#39
2-Butanone
Concen: 9.99 ug/L
RT: 5.469 min Scan# 448
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 43 Resp: 31406

Ion	Ratio	Lower	Upper
43	100		
72	48.4	44.2	66.4

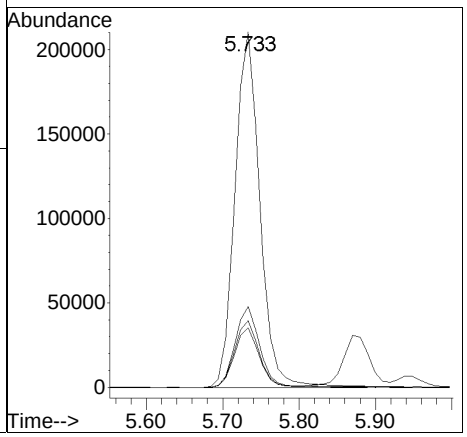


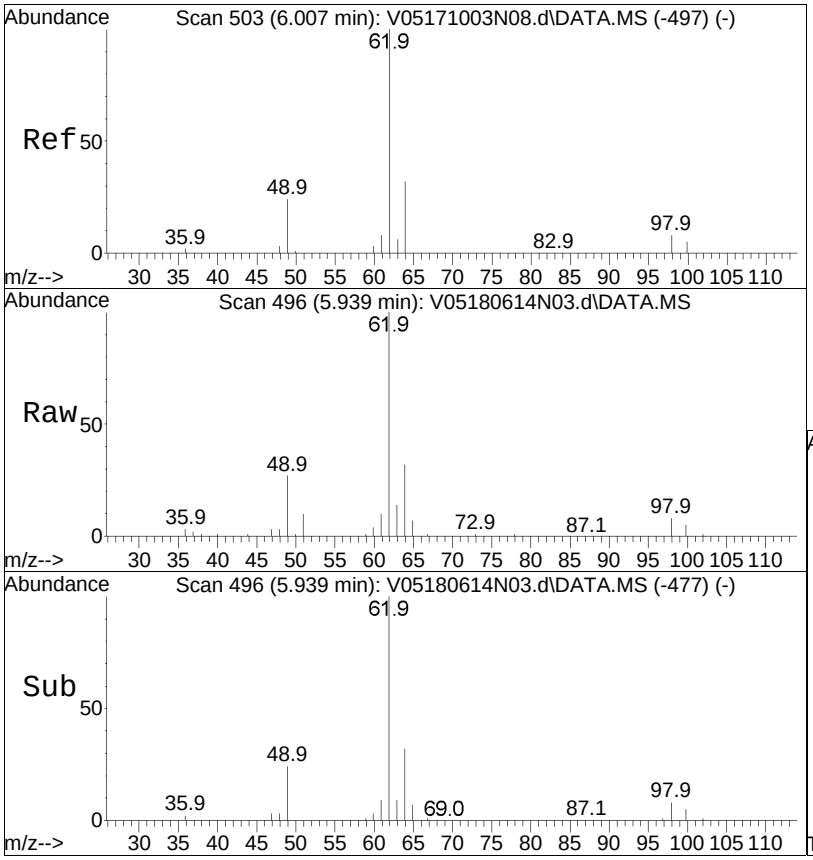


#41
Benzene
Concen: 9.56 ug/L
RT: 5.733 min Scan# 475
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 78 Resp: 478561

Ion	Ratio	Lower	Upper
78	100		
77	22.6	15.3	31.9
51	18.5	12.5	25.9
52	16.7	11.4	23.6

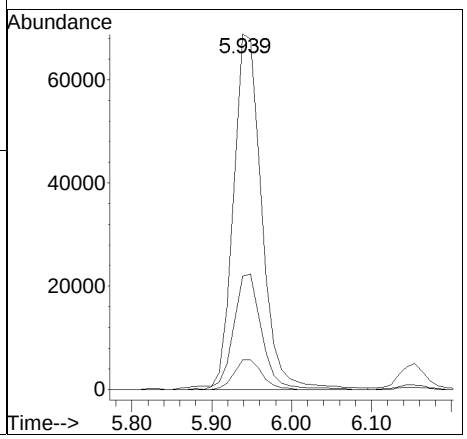


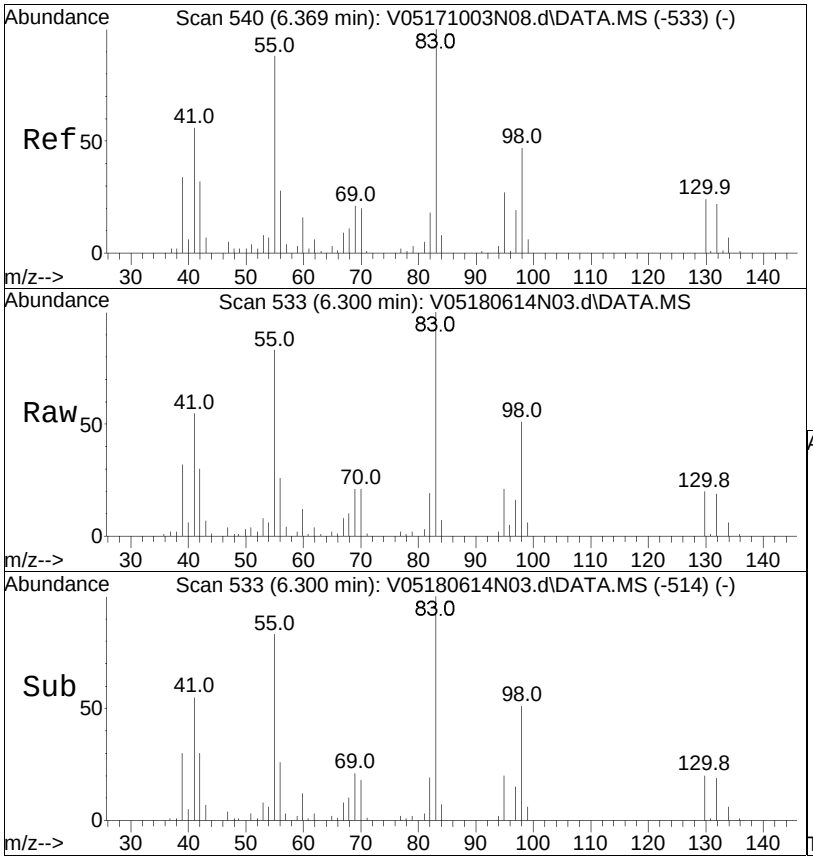


#44
1,2-Dichloroethane
Concen: 9.29 ug/L
RT: 5.939 min Scan# 496
Delta R.T. -0.010 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 62 Resp: 169028

Ion	Ratio	Lower	Upper
62	100		
64	33.0	13.1	53.1
98	8.3	0.0	27.8

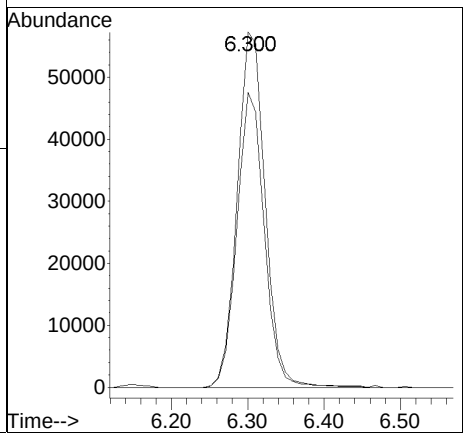


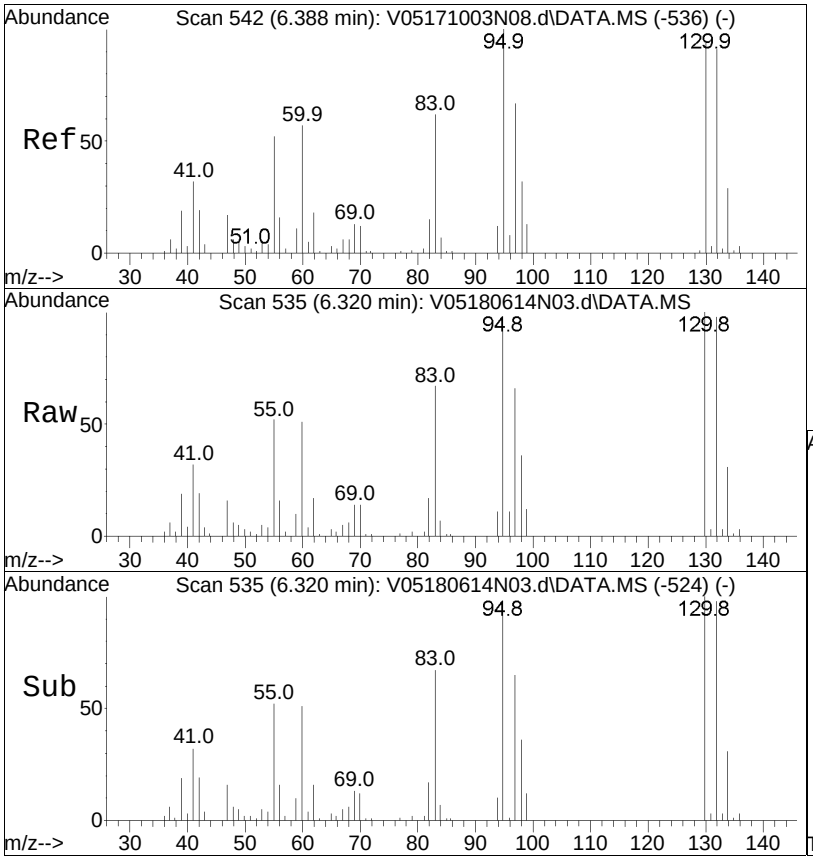


#47
Methyl cyclohexane
Concen: 9.73 ug/L
RT: 6.300 min Scan# 533
Delta R.T. -0.010 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 83 Resp: 145750

Ion	Ratio	Lower	Upper
83	100		
55	81.5	69.5	104.3

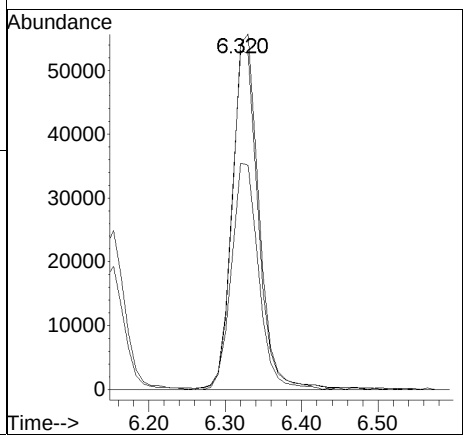


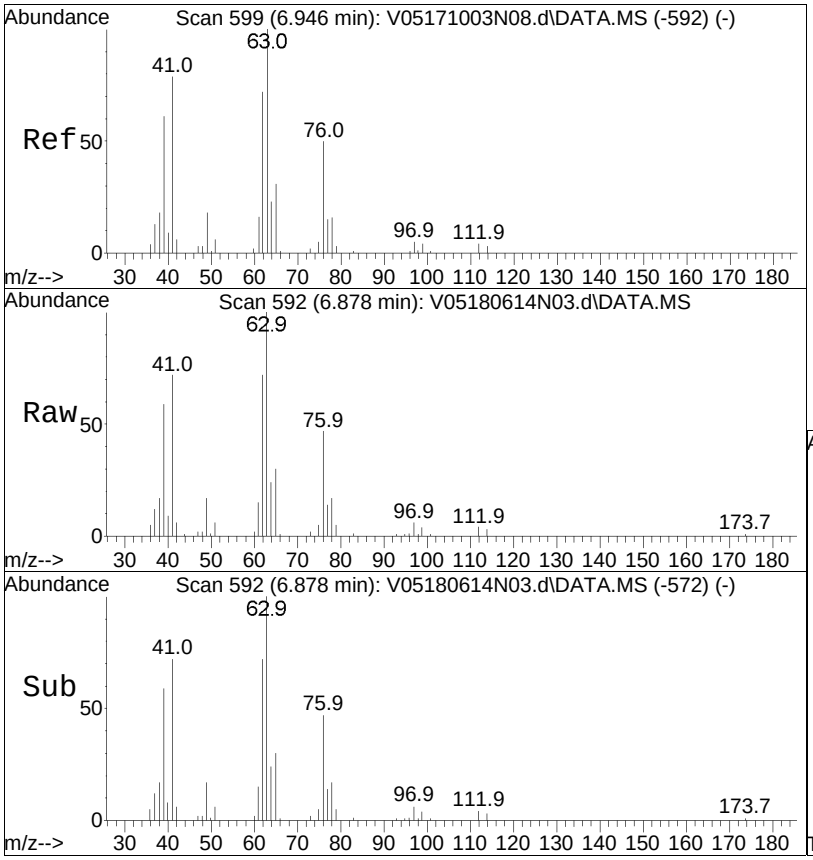


#48
Trichloroethene
Concen: 9.15 ug/L
RT: 6.320 min Scan# 535
Delta R.T. -0.010 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 95 Resp: 128399

Ion	Ratio	Lower	Upper
95	100		
97	68.4	53.5	80.3
130	103.3	75.9	113.9

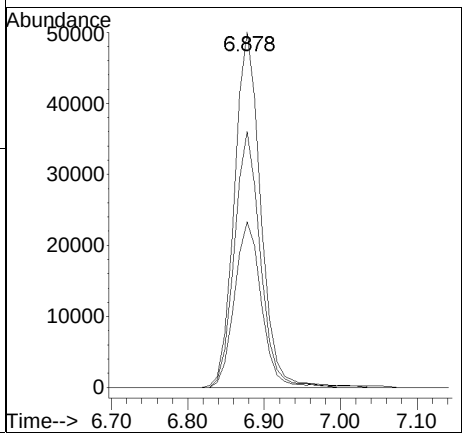


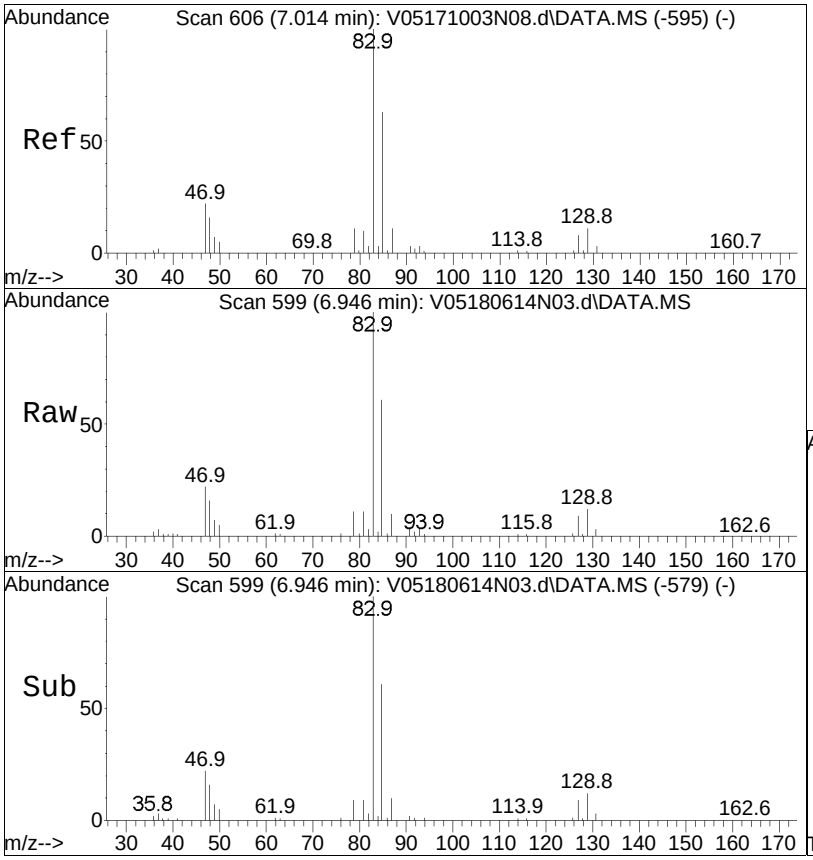


#51
1,2-Dichloropropane
Concen: 9.53 ug/L
RT: 6.878 min Scan# 592
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 63 Resp: 119913

Ion	Ratio	Lower	Upper
63	100		
62	71.1	57.4	86.2
76	47.6	39.8	59.6

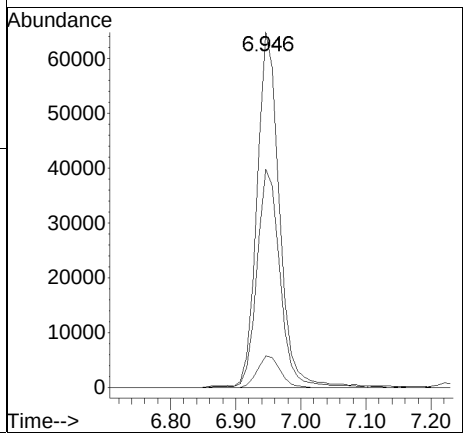


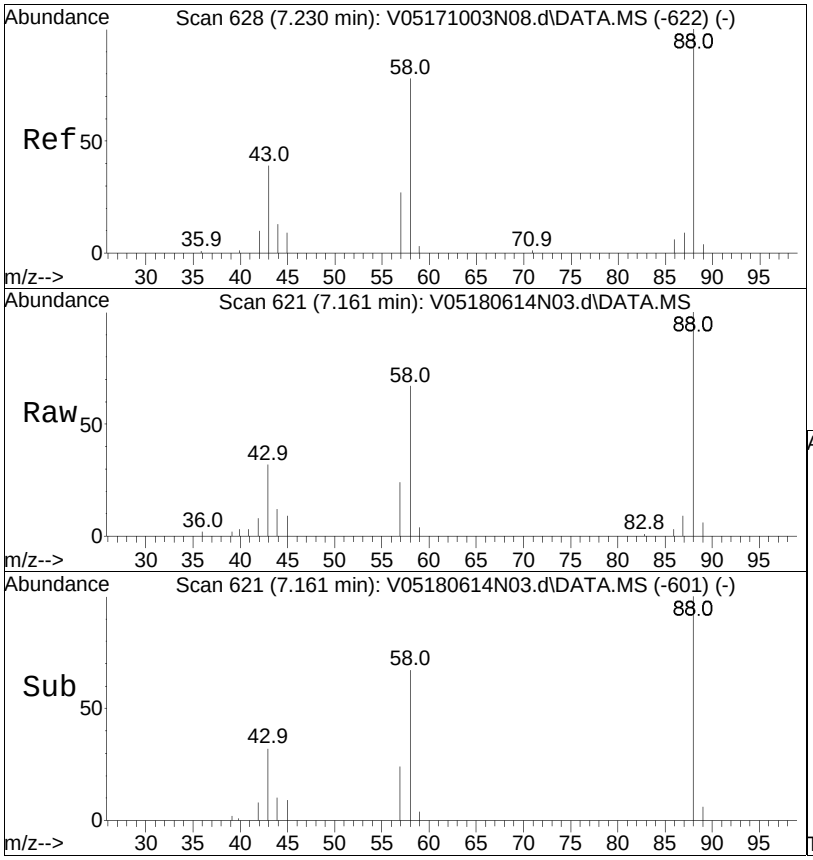


#54
Bromodichloromethane
Concen: 9.23 ug/L
RT: 6.946 min Scan# 599
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 83 Resp: 155688

Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.3	75.5
127	8.9	6.6	9.8

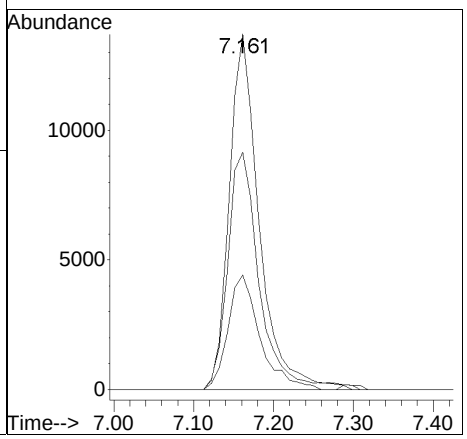


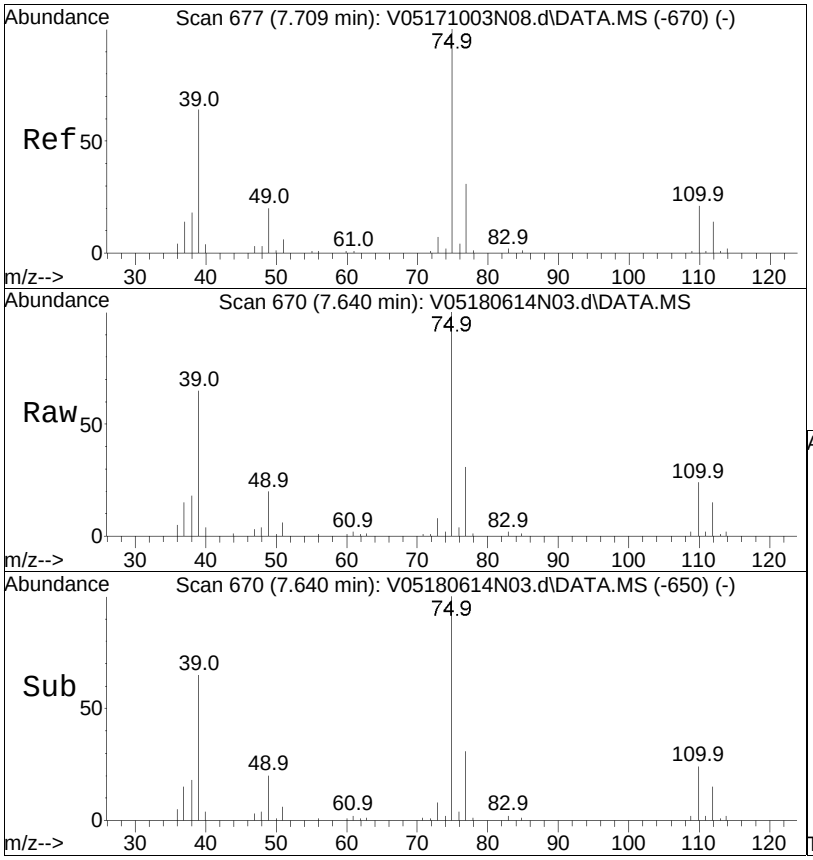


#57
1,4-Dioxane
Concen: 628.05 ug/L
RT: 7.161 min Scan# 621
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 88 Resp: 35866

Ion	Ratio	Lower	Upper
88	100		
58	70.0	61.5	92.3
43	34.3	30.5	45.7

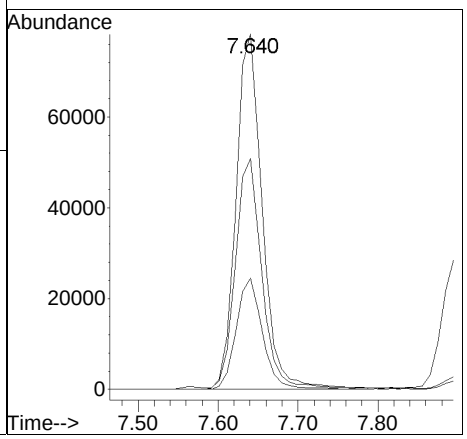


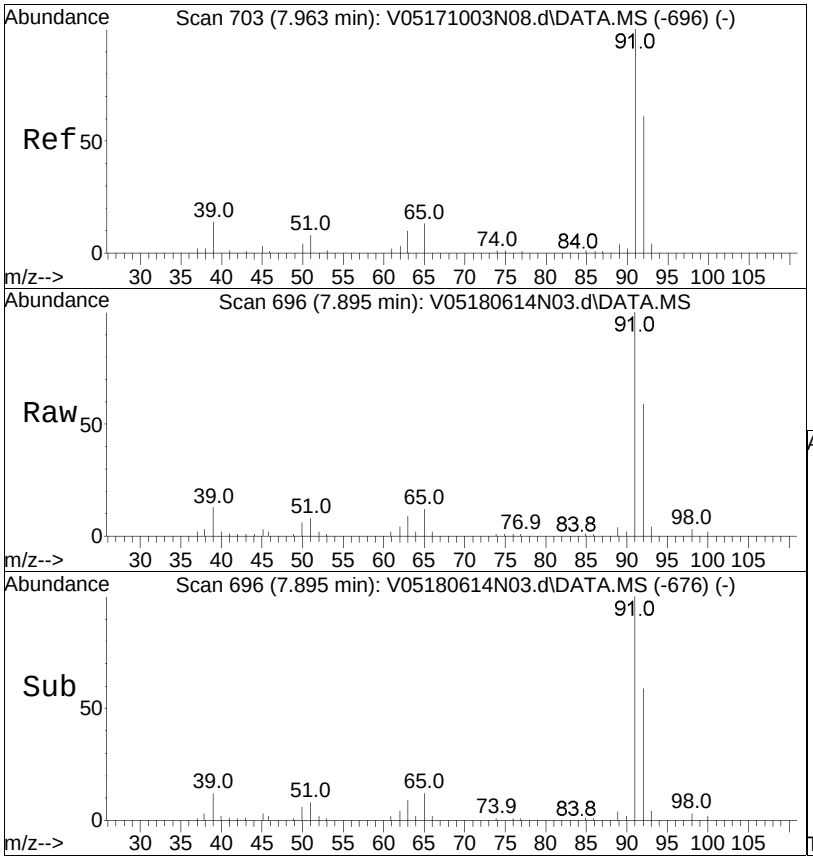


#58
cis-1,3-Dichloropropene
Concen: 9.71 ug/L
RT: 7.640 min Scan# 670
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 75 Resp: 179847

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.1	37.7
39	64.0	53.4	80.2

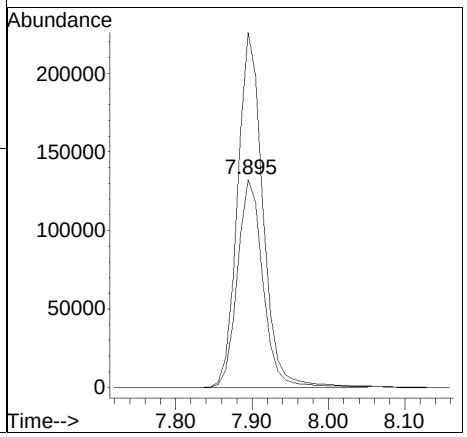


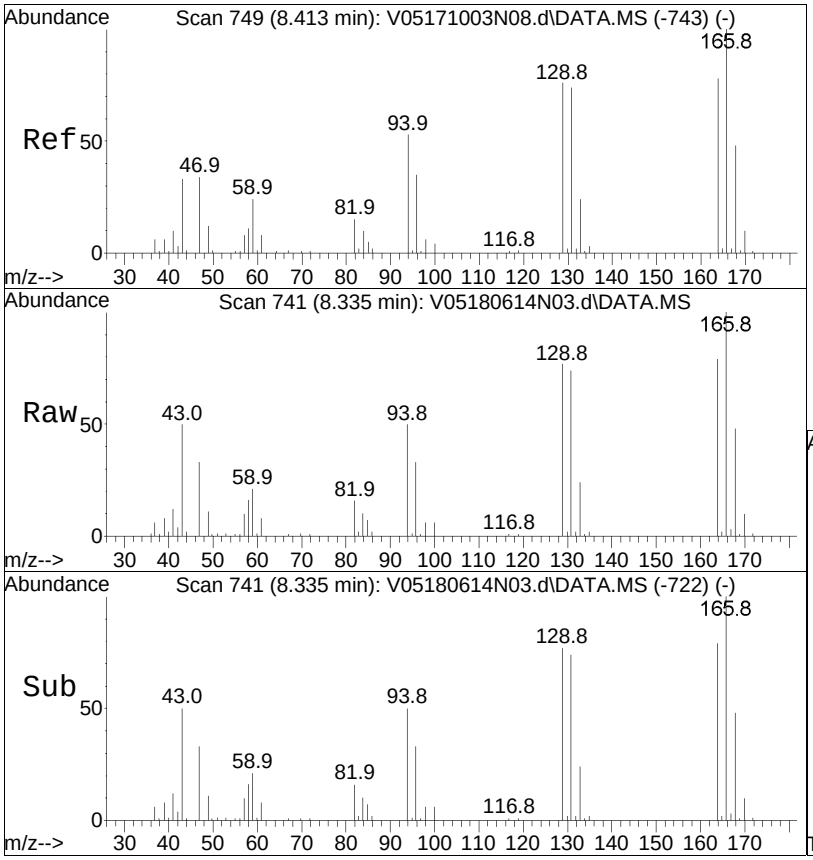


#61
Toluene
Concen: 9.39 ug/L
RT: 7.895 min Scan# 696
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 92 Resp: 308304

Ion	Ratio	Lower	Upper
92	100		
91	168.8	133.0	199.4

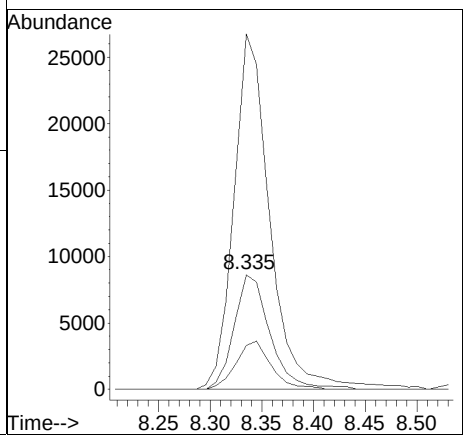


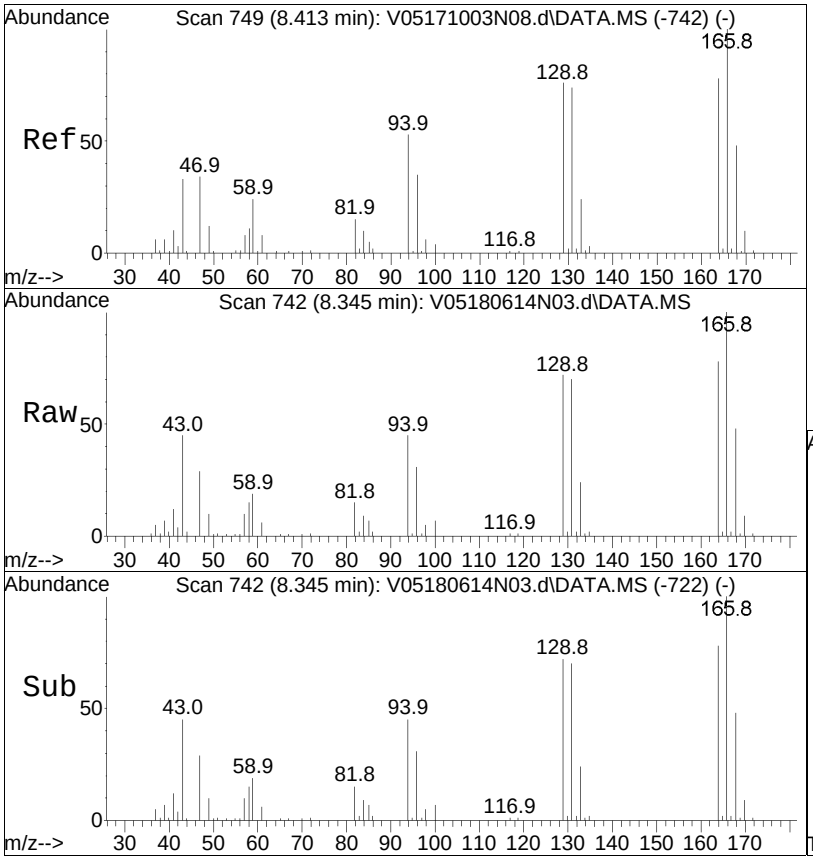


#62
4-Methyl-2-pentanone
Concen: 9.34 ug/L
RT: 8.335 min Scan# 741
Delta R.T. -0.010 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 58 Resp: 20964

Ion	Ratio	Lower	Upper
58	100		
100	41.4	29.3	43.9
43	311.2	247.4	371.0

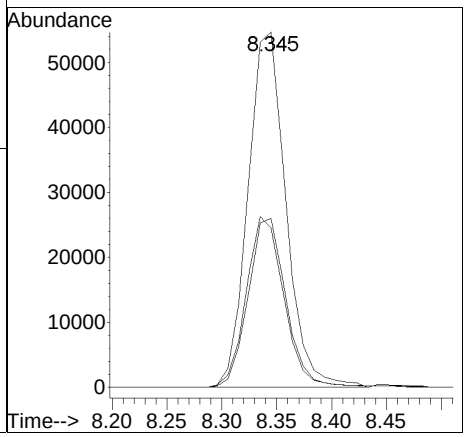


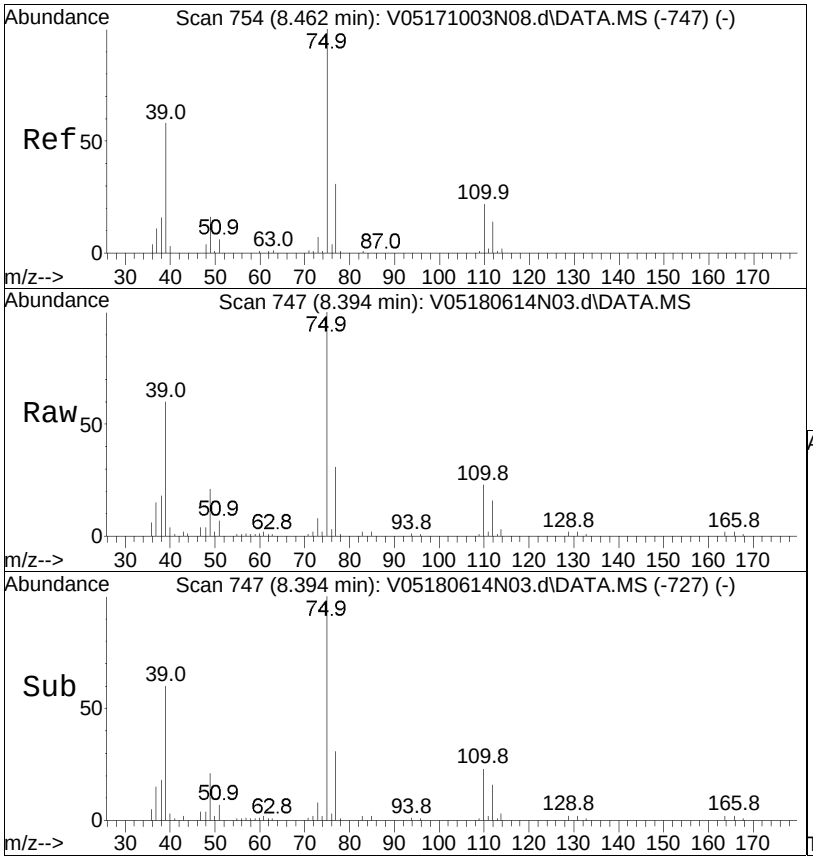


#63
Tetrachloroethene
Concen: 9.38 ug/L
RT: 8.345 min Scan# 742
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:166 Resp: 131374

Ion	Ratio	Lower	Upper
166	100		
168	47.9	27.2	67.2
94	48.2	35.8	75.8

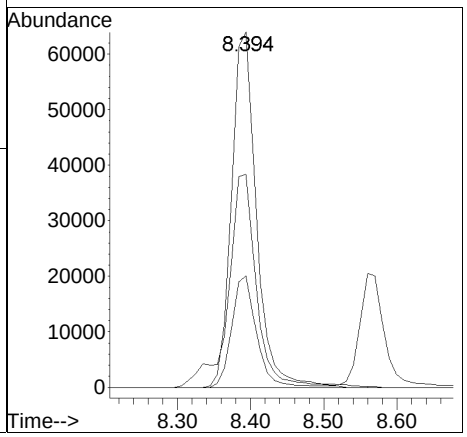


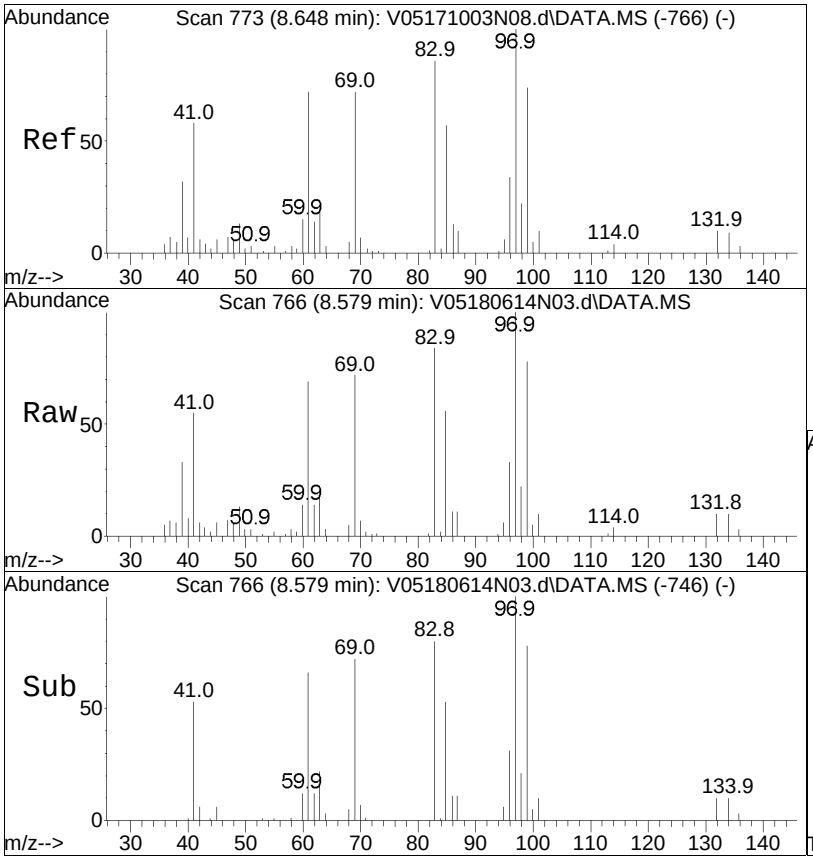


#65
trans-1,3-Dichloropropene
Concen: 8.56 ug/L
RT: 8.394 min Scan# 747
Delta R.T. -0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 75 Resp: 152087

Ion	Ratio	Lower	Upper
75	100		
77	31.2	10.9	50.9
39	67.3	48.1	88.1

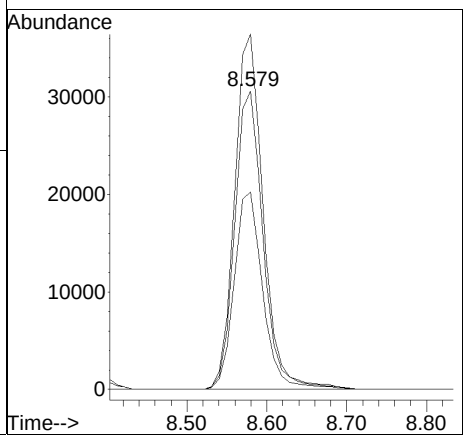


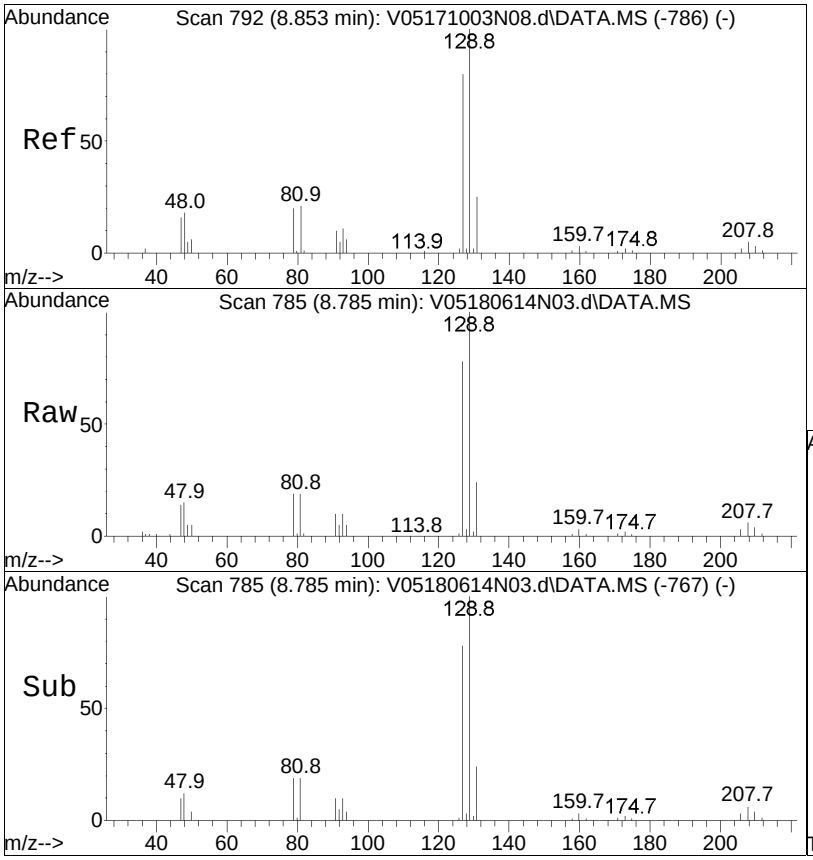


#68
1,1,2-Trichloroethane
Concen: 9.97 ug/L
RT: 8.579 min Scan# 766
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 83 Resp: 83229

Ion	Ratio	Lower	Upper
83	100		
97	119.4	93.6	133.6
85	66.7	46.9	86.9

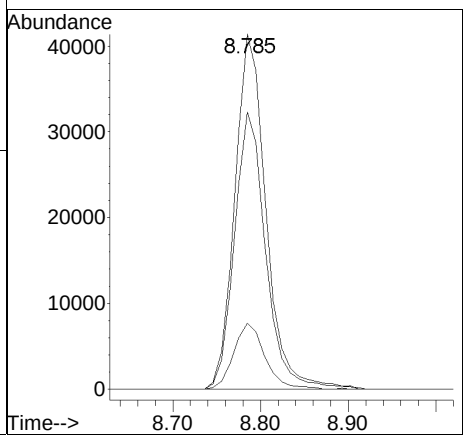


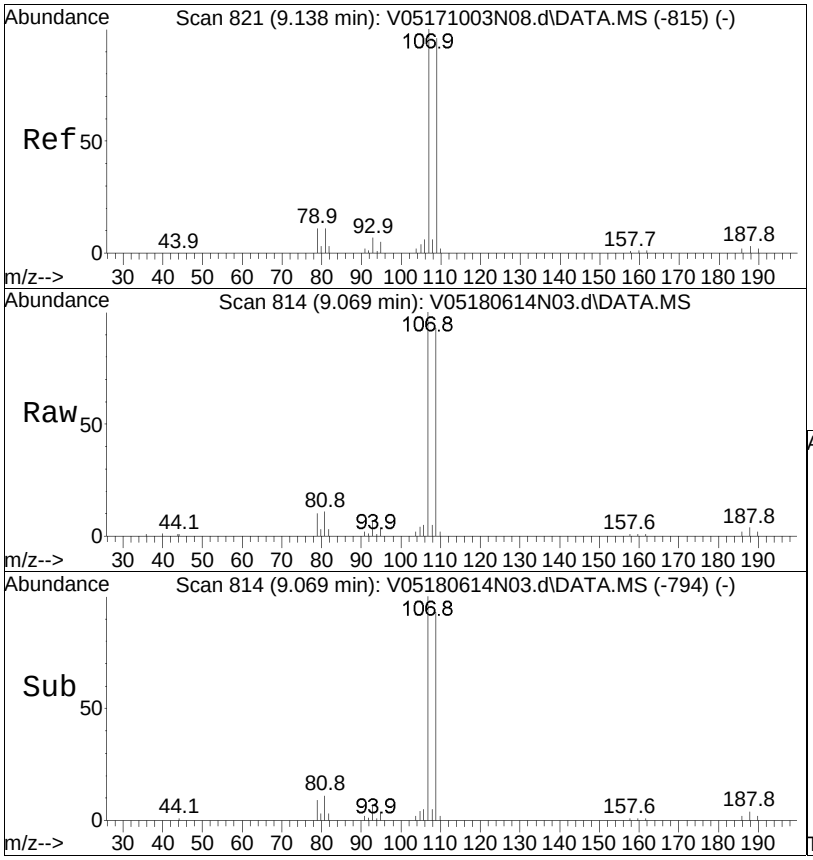


#69
Chlorodibromomethane
Concen: 8.20 ug/L
RT: 8.785 min Scan# 785
Delta R.T. -0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:129 Resp: 102522

Ion	Ratio	Lower	Upper
129	100		
81	18.7	0.0	40.0
127	78.2	57.9	97.9

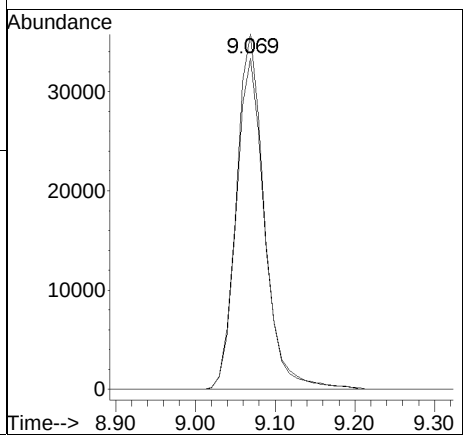


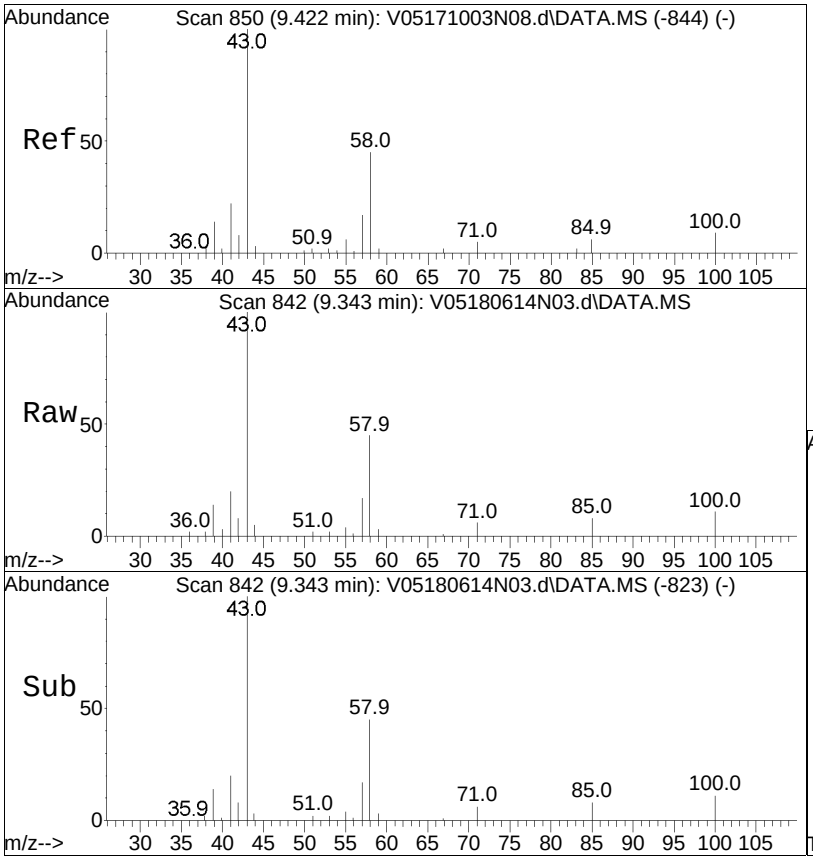


#71
1,2-Dibromoethane
Concen: 9.76 ug/L
RT: 9.069 min Scan# 814
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:107 Resp: 88001

Ion	Ratio	Lower	Upper
107	100		
109	94.4	75.5	113.3

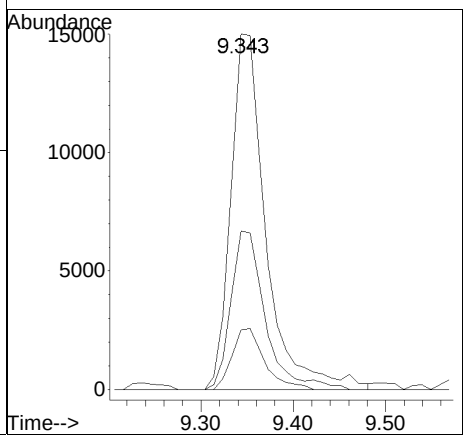


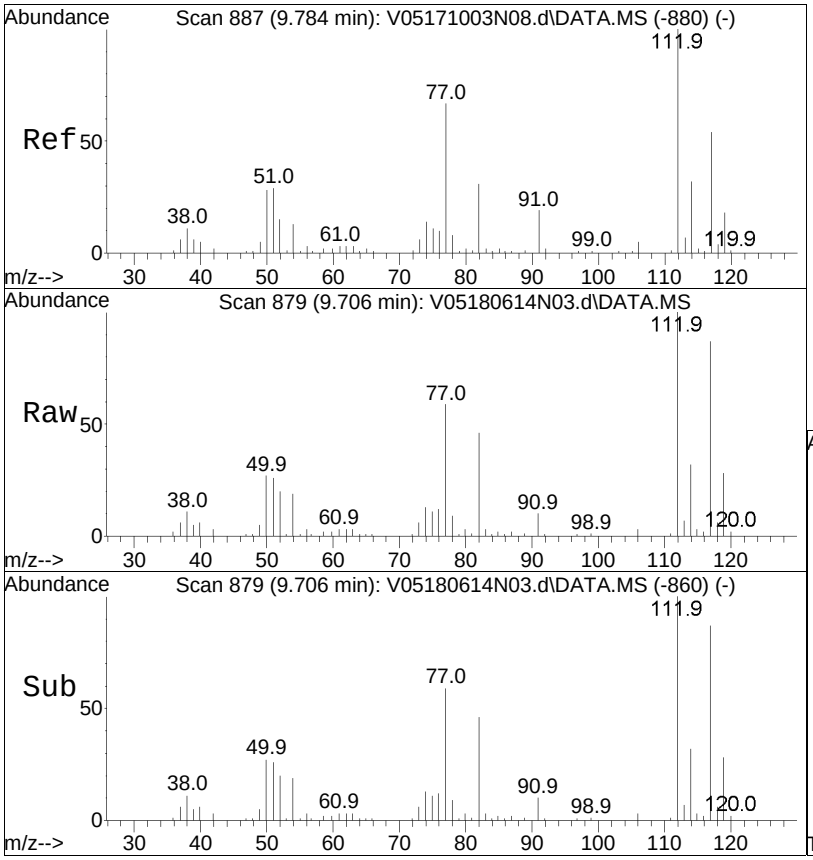


#72
2-Hexanone
Concen: 9.09 ug/L
RT: 9.343 min Scan# 842
Delta R.T. -0.010 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 43 Resp: 39680

Ion	Ratio	Lower	Upper
43	100		
58	43.5	32.8	49.2
57	15.8	11.8	17.8

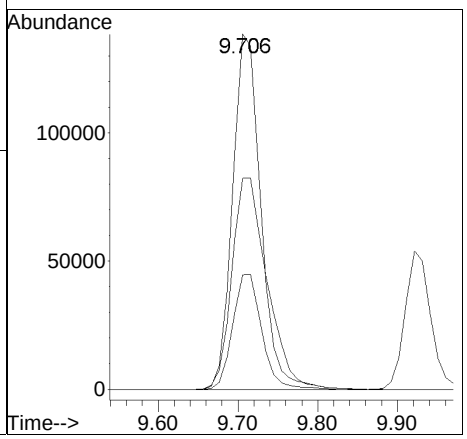


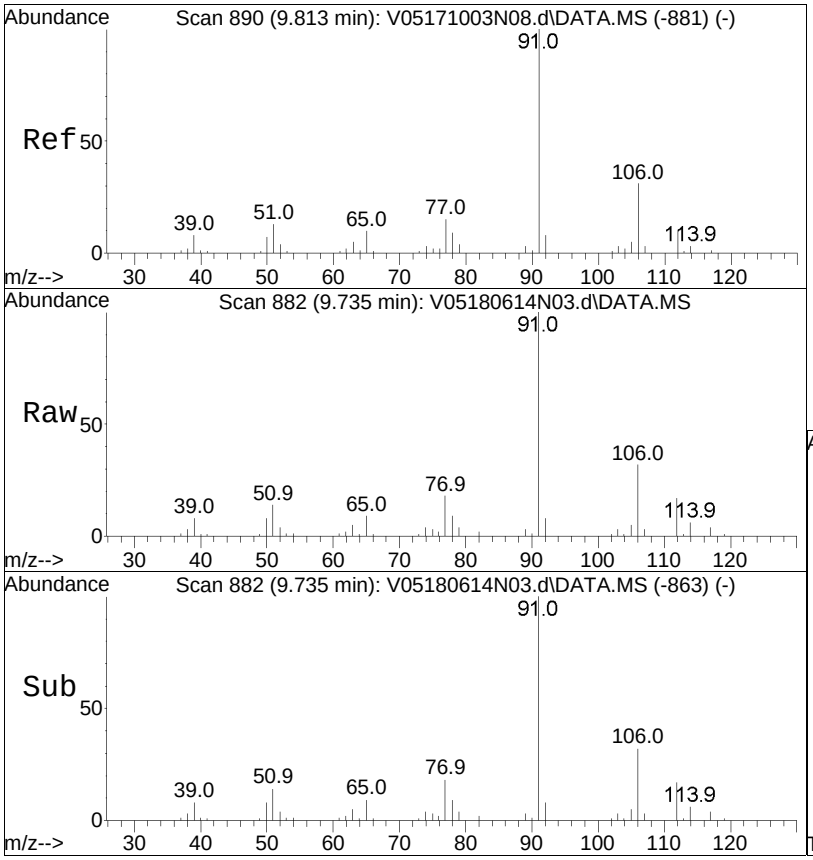


#73
Chlorobenzene
Concen: 9.26 ug/L
RT: 9.706 min Scan# 879
Delta R.T. -0.010 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:112 Resp: 341415

Ion	Ratio	Lower	Upper
112	100		
77	74.2	67.0	100.4
114	33.2	25.6	38.4

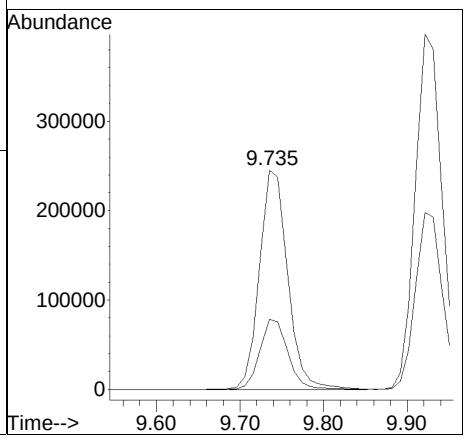


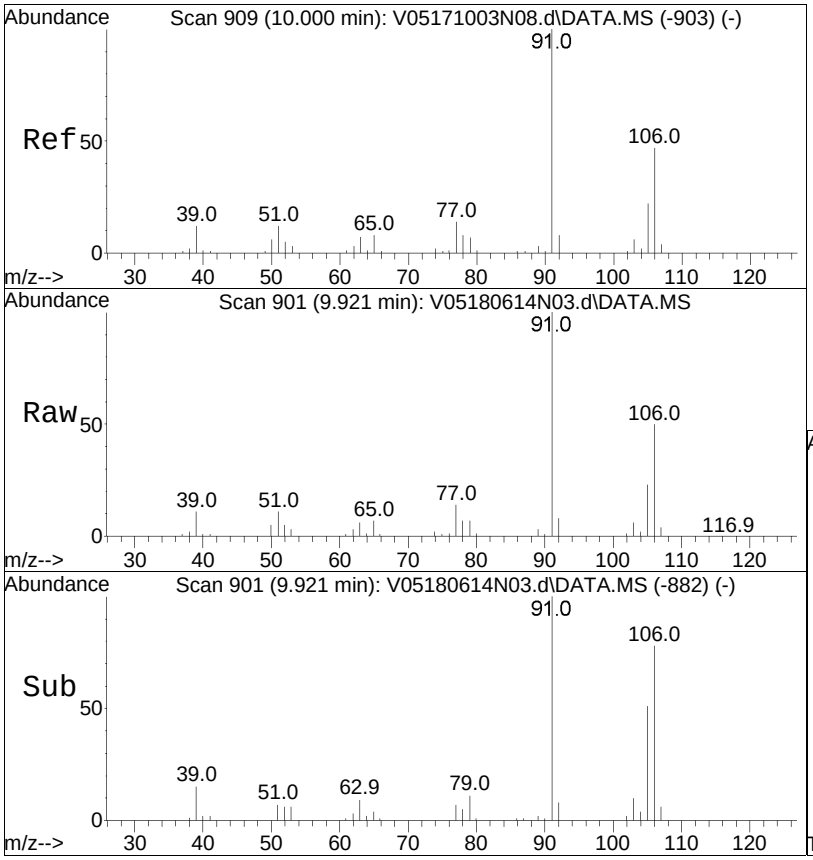


#74
Ethylbenzene
Concen: 9.25 ug/L
RT: 9.735 min Scan# 882
Delta R.T. -0.010 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 91 Resp: 577964

Ion	Ratio	Lower	Upper
91	100		
106	31.7	23.8	35.8

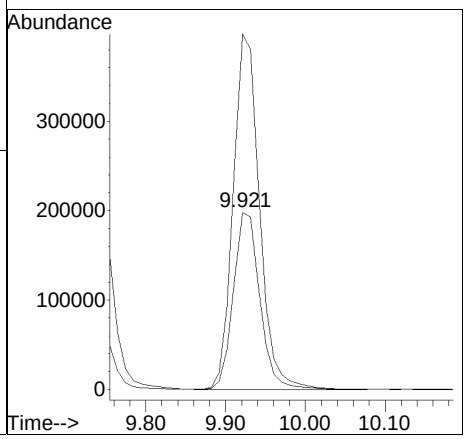


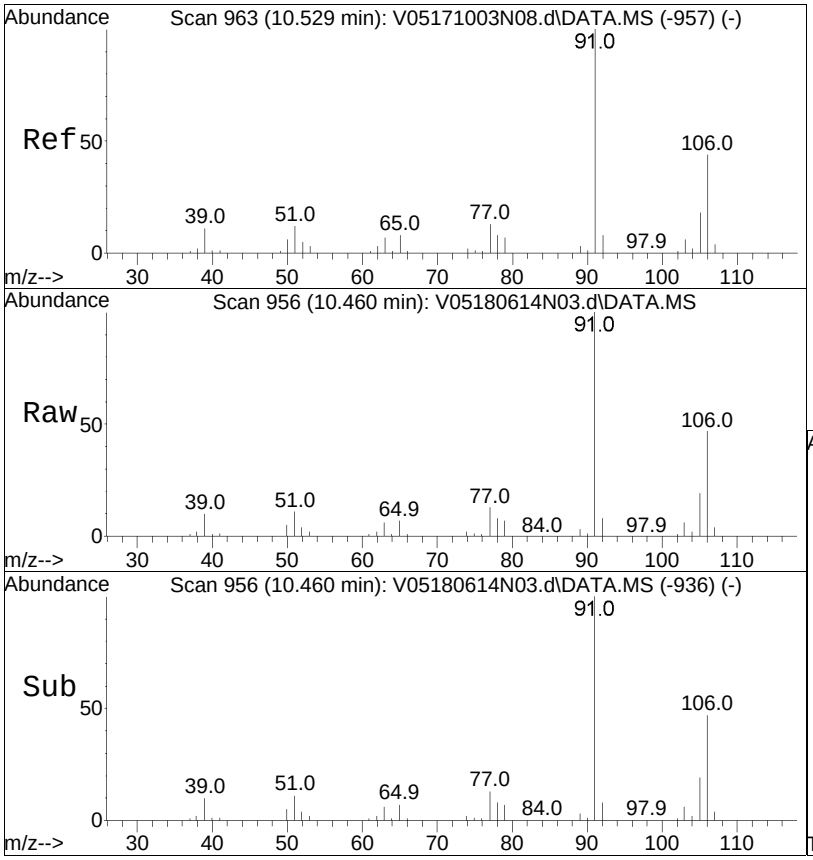


#76
p/m Xylene
Concen: 19.35 ug/L
RT: 9.921 min Scan# 901
Delta R.T. -0.010 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:106 Resp: 457262

Ion	Ratio	Lower	Upper
106	100		
91	198.5	169.0	253.4

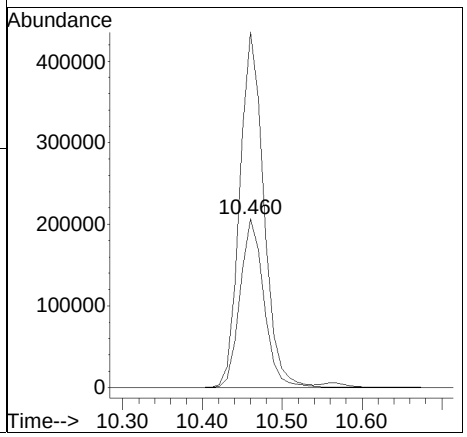


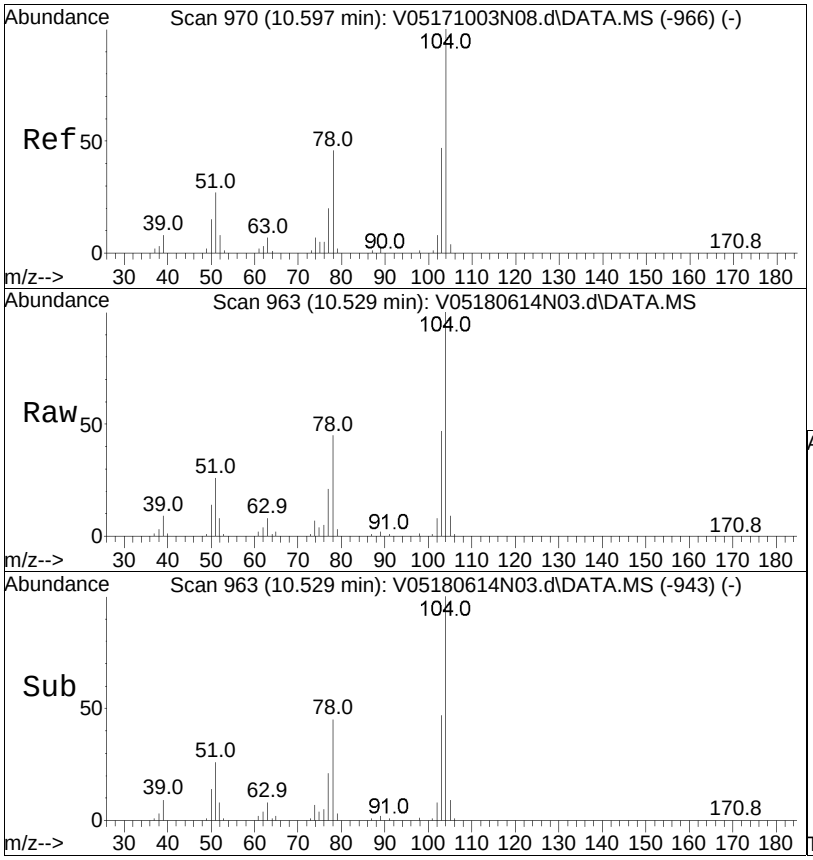


#77
o Xylene
Concen: 19.49 ug/L
RT: 10.460 min Scan# 956
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:106 Resp: 429730

Ion	Ratio	Lower	Upper
106	100		
91	211.8	178.9	268.3

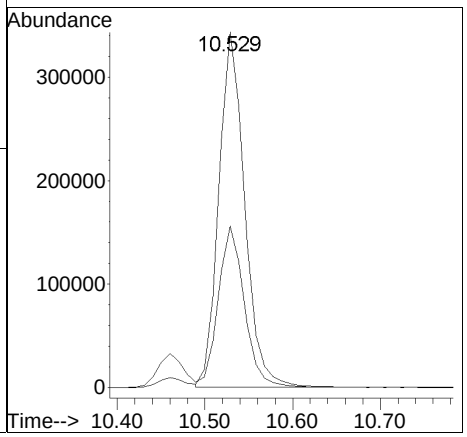


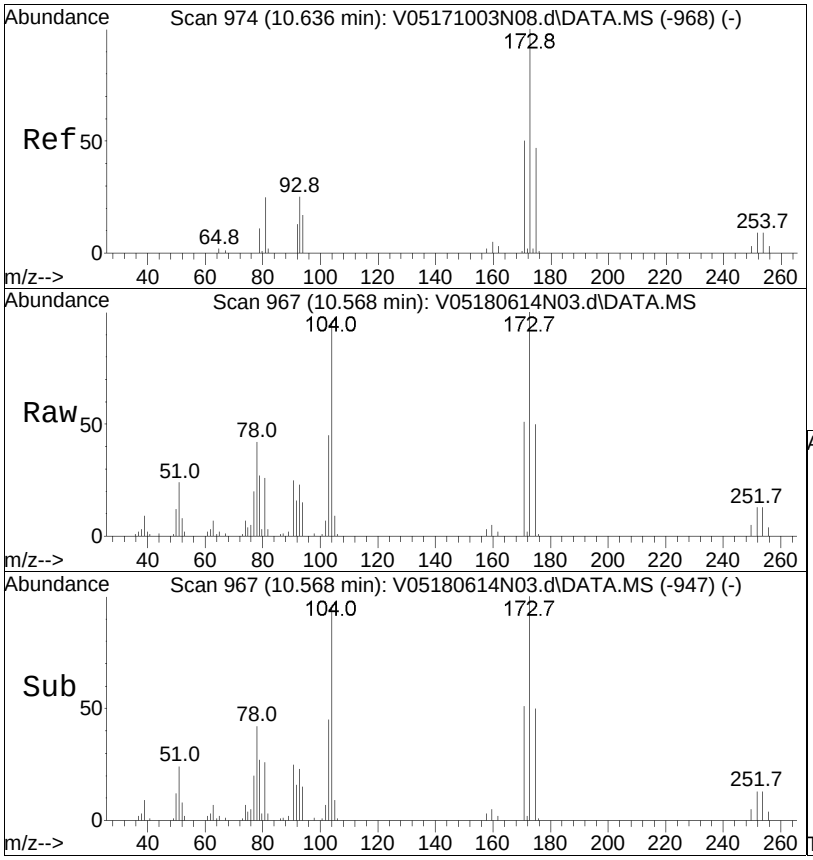


#78
Styrene
Concen: 19.80 ug/L
RT: 10.529 min Scan# 963
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:104 Resp: 703281

Ion	Ratio	Lower	Upper
104	100		
78	46.0	37.9	56.9

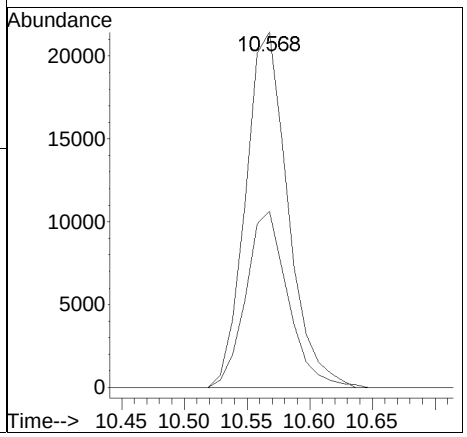


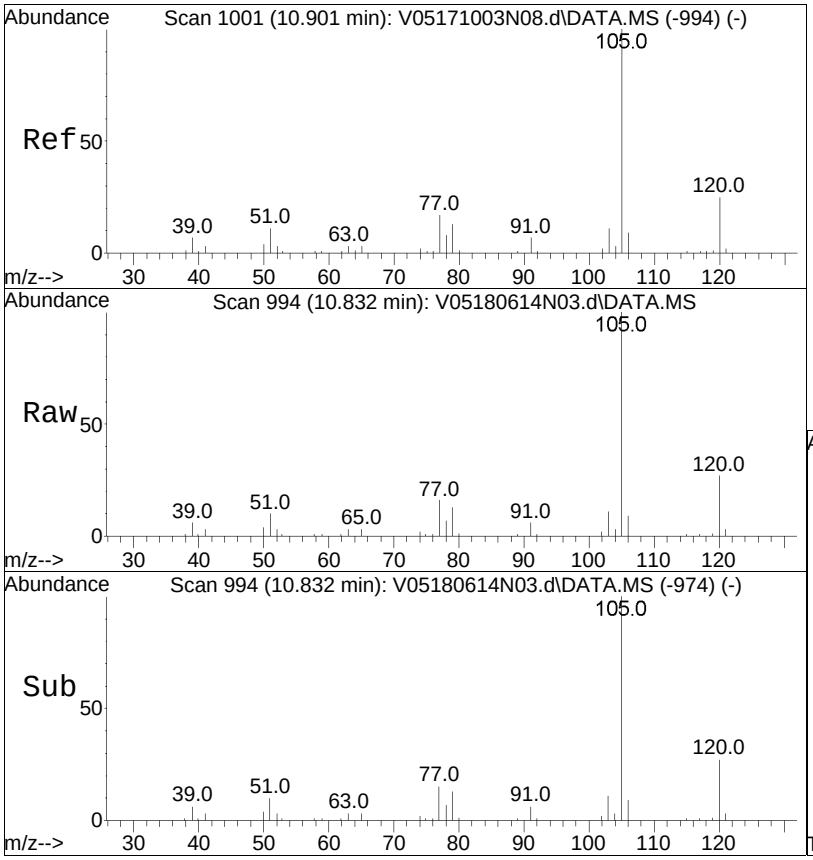


#80
Bromoform
Concen: 7.72 ug/L
RT: 10.568 min Scan# 967
Delta R.T. -0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:173 Resp: 50400

Ion	Ratio	Lower	Upper
173	100		
175	49.3	27.7	67.7

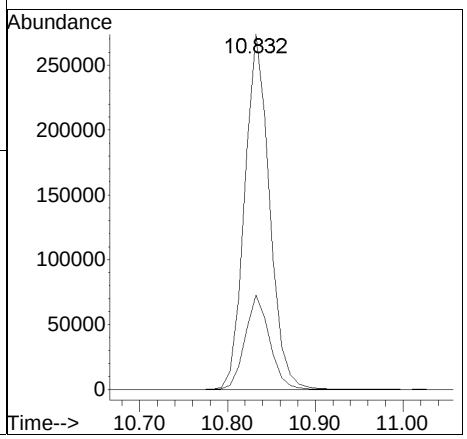


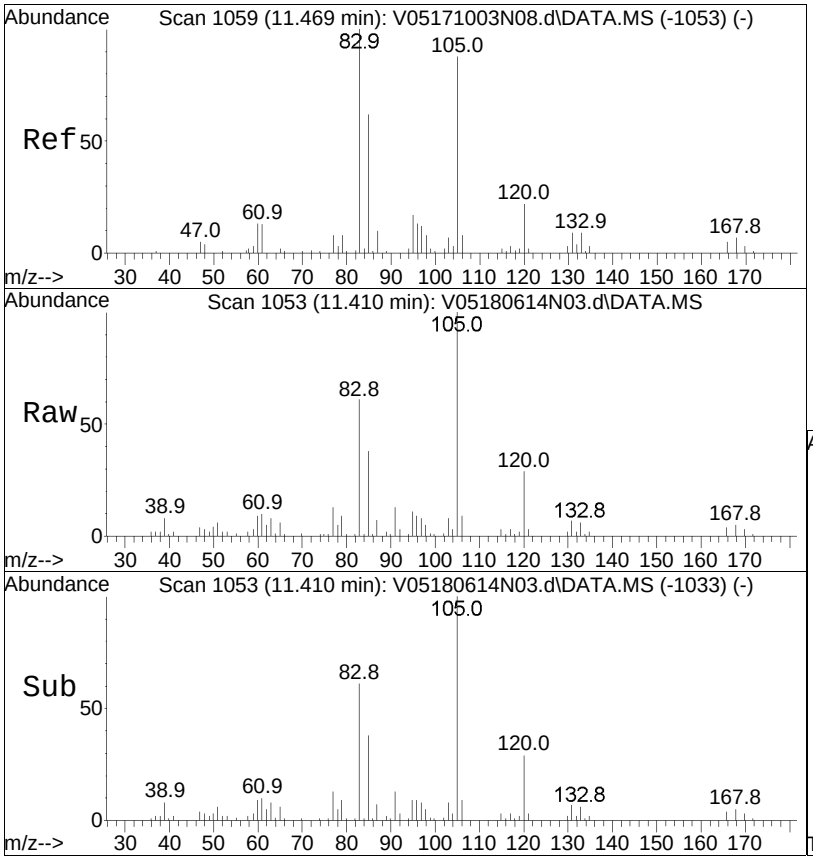


#82
Isopropylbenzene
Concen: 9.59 ug/L
RT: 10.832 min Scan# 994
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:105 Resp: 538337

Ion	Ratio	Lower	Upper
105	100		
120	26.1	5.8	45.8

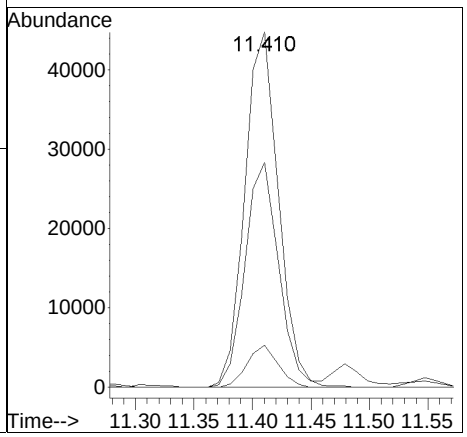


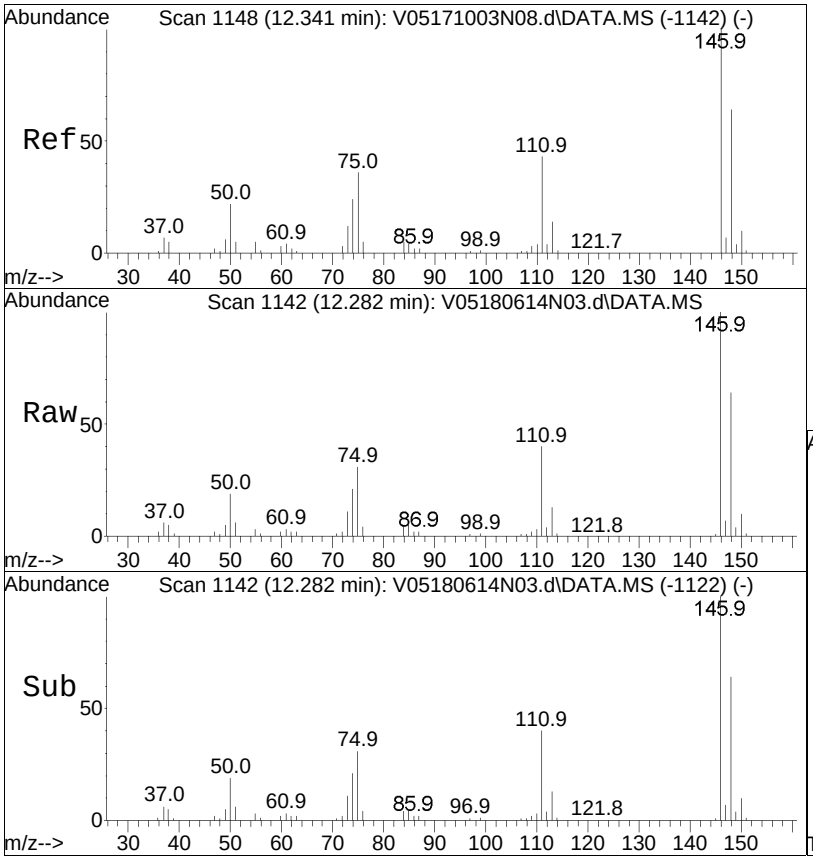


#87
1,1,2,2-Tetrachloroethane
Concen: 9.74 ug/L
RT: 11.410 min Scan# 1053
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion: 83 Resp: 90001

Ion	Ratio	Lower	Upper
83	100		
131	11.0	0.0	29.3
85	63.1	44.5	84.5

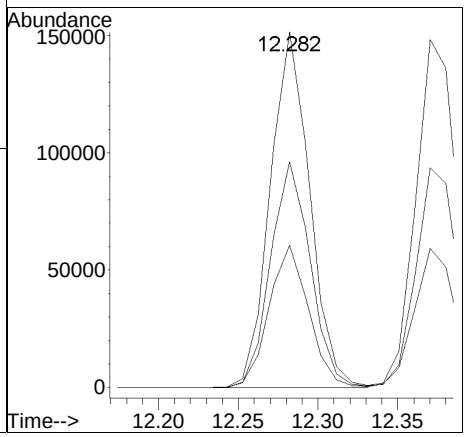


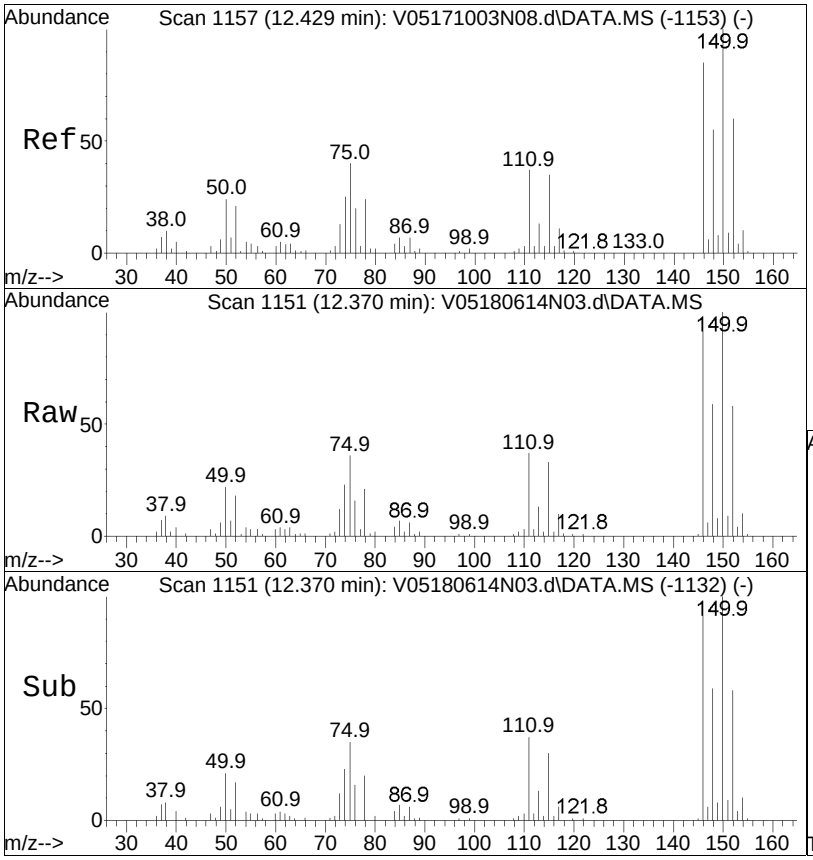


#100
1,3-Dichlorobenzene
Concen: 9.44 ug/L
RT: 12.282 min Scan# 1142
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:146 Resp: 260711

Ion	Ratio	Lower	Upper
146	100		
111	40.1	27.6	57.4
148	64.0	41.3	85.9

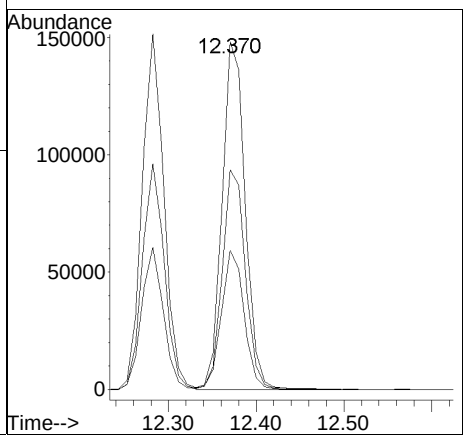


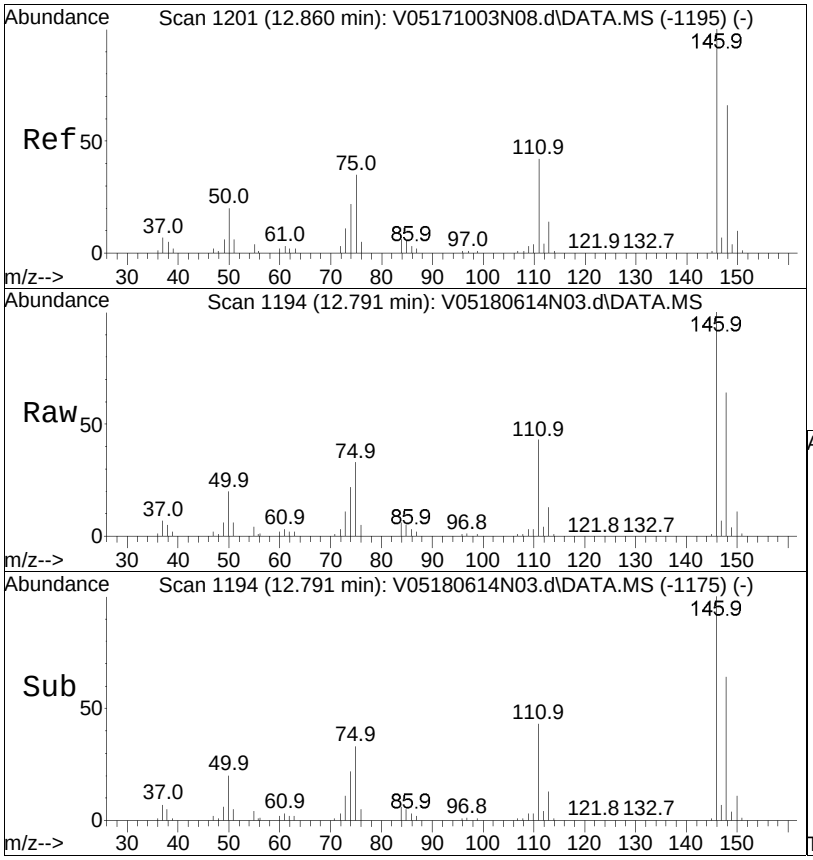


#101
1,4-Dichlorobenzene
Concen: 9.40 ug/L
RT: 12.370 min Scan# 1151
Delta R.T. -0.010 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:146 Resp: 270528

Ion	Ratio	Lower	Upper
146	100		
111	39.6	33.6	50.4
148	63.5	51.3	76.9

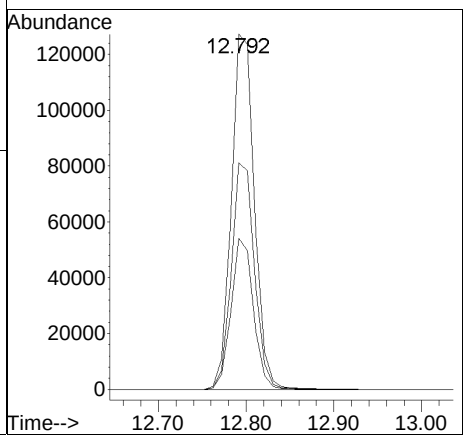


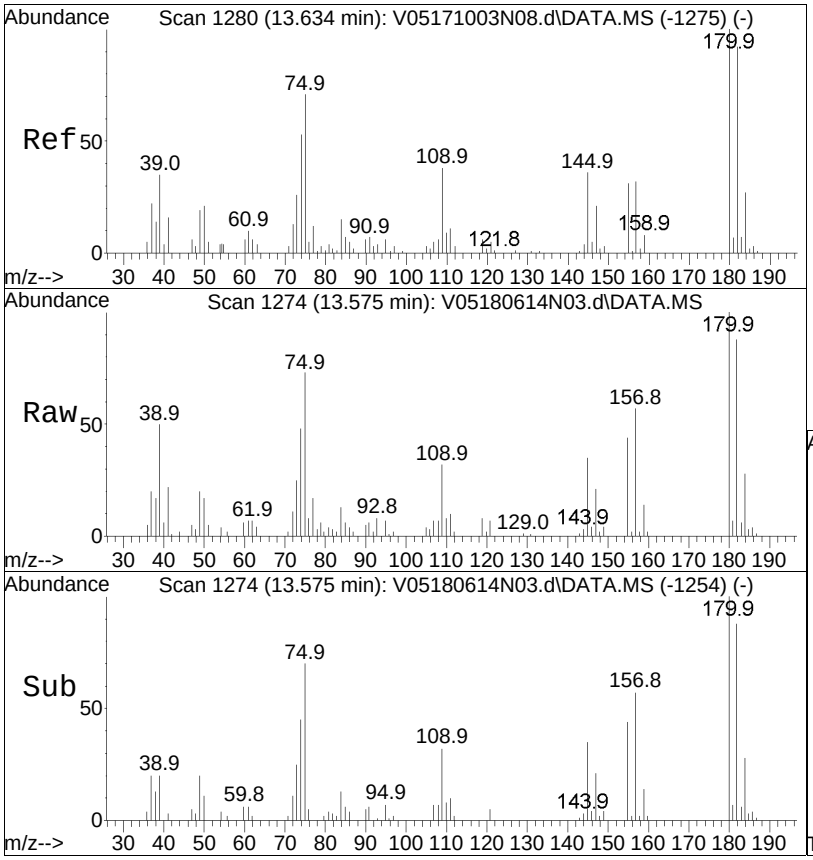


#104
1,2-Dichlorobenzene
Concen: 9.56 ug/L
RT: 12.791 min Scan# 1194
Delta R.T. -0.010 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:146 Resp: 232493

Ion	Ratio	Lower	Upper
146	100		
111	41.2	28.3	58.9
148	63.8	41.9	87.1

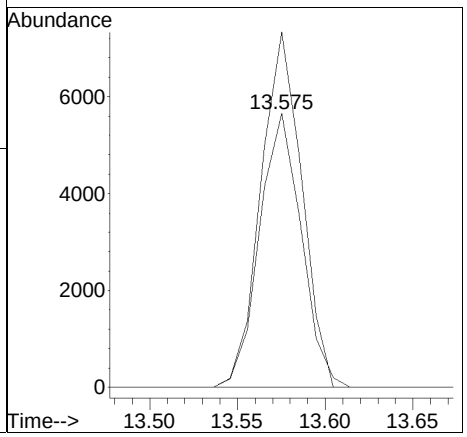


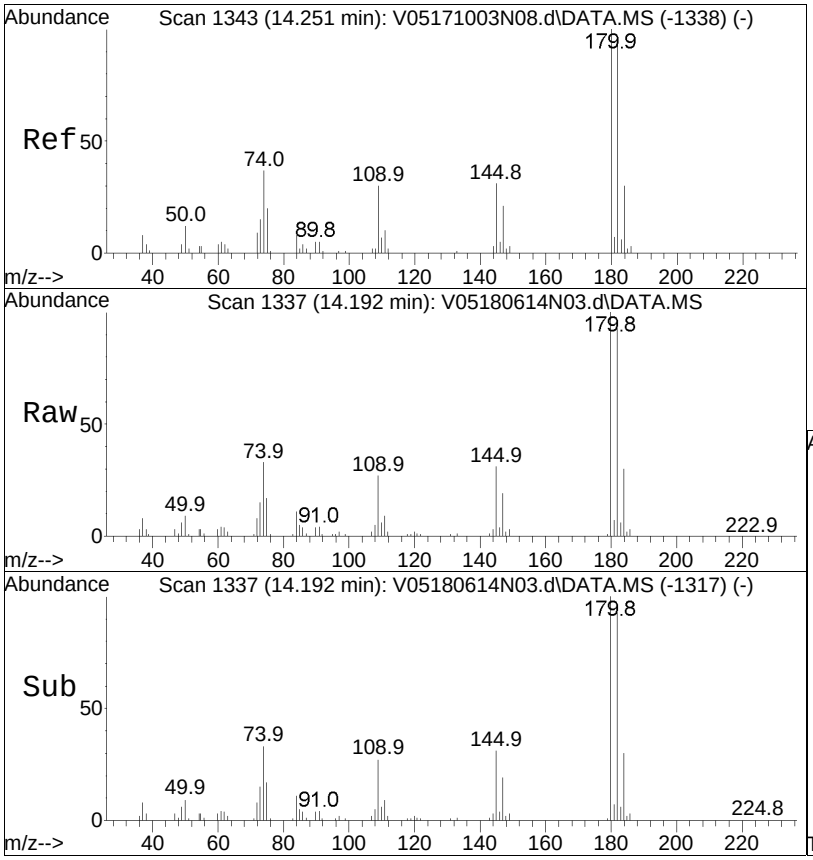


#106
1,2-Dibromo-3-chloropropane
Concen: 7.85 ug/L
RT: 13.575 min Scan# 1274
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:155 Resp: 9392

Ion	Ratio	Lower	Upper
155	100		
157	126.4	96.6	145.0

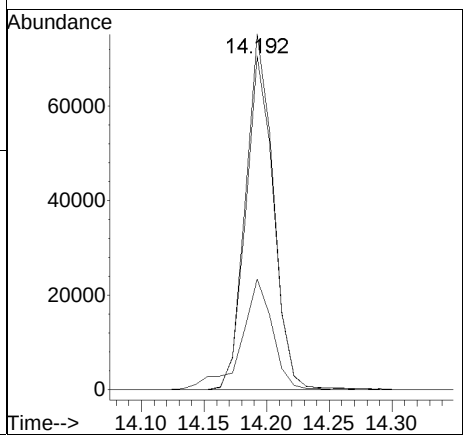


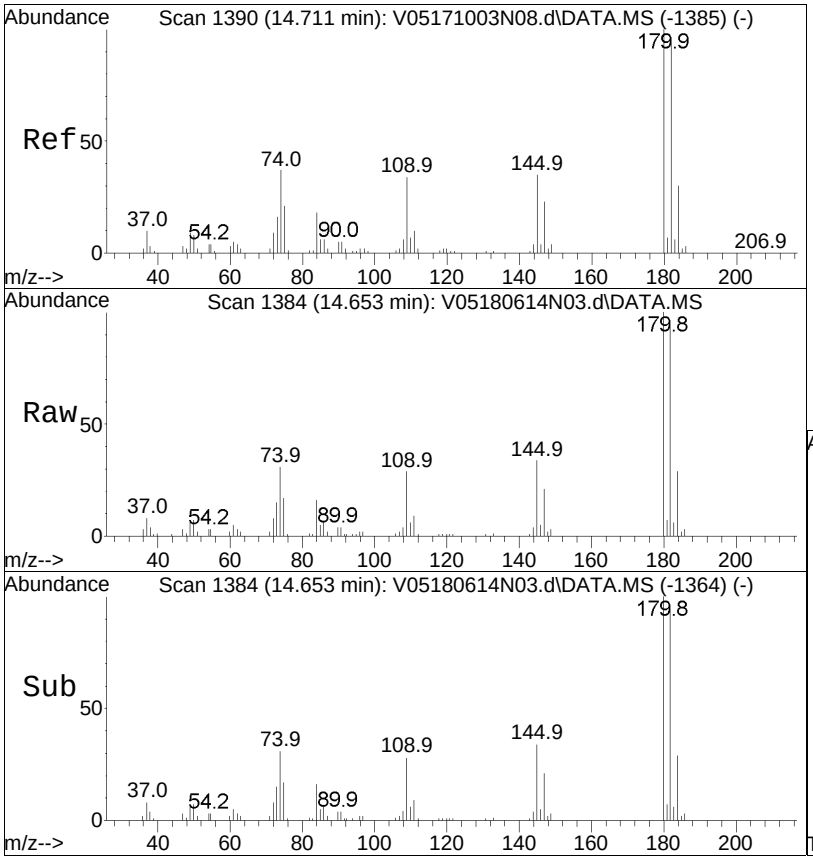


#109
1,2,4-Trichlorobenzene
Concen: 10.16 ug/L
RT: 14.192 min Scan# 1337
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:180 Resp: 115956

Ion	Ratio	Lower	Upper
180	100		
182	94.6	76.3	114.5
145	34.6	31.0	46.4

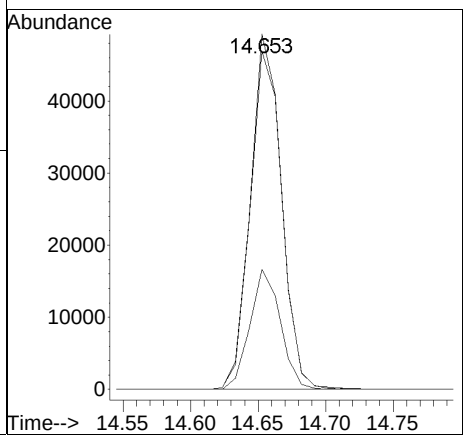




#111
1,2,3-Trichlorobenzene
Concen: 10.36 ug/L
RT: 14.653 min Scan# 1384
Delta R.T. 0.000 min
Lab File: V05180614N03.d
Acq: 14 Jun 2018 7:30 pm

Tgt Ion:180 Resp: 78893

Ion	Ratio	Lower	Upper
180	100		
182	97.6	76.2	114.2
145	33.1	28.2	42.2



Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * Uf * (1/Vo)

Where:
DF = Dilution Factor
Vo = Sample Volume Purged (mL)
Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: Amt * DF * (1/Wt)

Where:
DF = Dilution Factor
Wt = Weight of Sample (g)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Jun 18 2018, 03:33 pm

Work Group: WG1126396 for Department: 31 GC/MS - Volatiles

Created: 15-JUN-18 Due: Operator: NLK

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1821938-01	CTMMW-09__2018.06.12	S	NYTCL-8260-R2	WATER	DONE	U	0626	0619	S0	Vial-B
L1821938-02	CTMMW-10__2018.06.12	S	NYTCL-8260-R2	WATER	DONE	U	0626	0619	S0	Vial-B
L1821938-03	CTMMW-11__2018.06.12	S	NYTCL-8260-R2	WATER	DONE	U	0626	0619	S0	Vial-B
L1821938-04	CTMMW-12__2018.06.12	S	NYTCL-8260-R2	WATER	DONE	U	0626	0619	S0	Vial-B
L1821938-05	TRANSPORT BLANK	S	NYTCL-8260-R2	WATER	DONE	U	0626	0619	S0	Vial-B
WG1126396-1	MS BFB Tune Standard	S	NYTCL-8260-R2	WATER	DONE	U				
WG1126396-2	Continuing Calibrati	S	NYTCL-8260-R2	WATER	DONE	U				
WG1126396-3	Laboratory Control S	S	NYTCL-8260-R2	WATER	DONE	U				
WG1126396-4	LCS Duplicate	S	NYTCL-8260-R2	WATER	DONE	U				
WG1126396-5	Laboratory Method Bl	S	NYTCL-8260-R2	WATER	DONE	U				

Comments:

WG1126396-4 WG1126396-3

Method

Inst: VOA105 BFB: V6743 GC: 8260

Initials: AD IS/SS: V6789 Autosampler: 8260water10ml

Date: **05/30/18** ICAL: V6790, V6761E Concentrator: 8260_test

Run: **N** ICV: V6757, V6721, V6722, V6712, V6723C, V6739 QC: _____ Seq: _____

Vial	Data File	Sample	obs
1	V05180530NBF1	BFB TUNE	
1	V05180530N01	BLK	
2	V05180530N02	BLK	
3	V05180530N03	I8260STDL11	
4	V05180530N04	I8260STDL1	
5	V05180530N05	I8260STDL1	
6	V05180530N06	I8260STDL2	
7	V05180530N07	I8260STDL2	
8	V05180530N08	I8260STDL3	
9	V05180530N09	I8260STDL4	
10	V05180530N10	I8260STDL6	
11	V05180530N11	I8260STDL8	
12	V05180530N12	I8260STDL10	
13	V05180530N13	BLK	
14	V05180530N14	BLK	
15	V05180530N15	BLK	
16	V05180530N16	BLK	
17	V05180530N17	BLK	
18	V05180530N18	C8260STDL3	
19	V05180530N19	C8260STDL3	
20	V05180530N20	BLK	

Method

Inst: VOA105 BFB: V6812 GC: 8260

Initials: KJD IS/SS: V6789 Autosampler: 8260water10ml

Date: **06/14/18** ICAL: V6822, V6761E Concentrator: 8260_test

Run: **N** ICV: V6757, V6721, V6722, V6712, V6723C, V6739 QC:_____ Seq:_____

Vial	Data File	Sample		obs
1	V05180614NBF1	BFB TUNE 18:21		
1	V05180614N01	8260 CCAL		
2	V05180614N02	8260 CCAL LCS		
3	V05180614N03	8260 CCAL LCSD		
4	V05180614N04	BLK		
5	V05180614N05	METHOD BLK		
6	V05180614N06	I1821938-05,31,10,10,,a	NYCURVE	pH<2
7	V05180614N07	I1821947-01,31,10,10,,a	ME-8260CURVE	pH<2
8	V05180614N08	I1821947-02,31,10,10,,a	ME-8260CURVE	pH<2
9	V05180614N09	I1821947-03,31,10,10,,a	ME-8260CURVE	pH<2
10	V05180614N10	I1821947-04,31,10,10,,a	ME-8260CURVE	pH<2
11	V05180614N11	I1821947-05,31,10,10,,a	ME-8260CURVE	pH<2
12	V05180614N12	I1821947-06,31,10,10,,a	ME-8260CURVE	pH<2
13	V05180614N13	I1821574-12,31,10,10,,c	8260	pH<2
14	V05180614N14	I1821574-14,31,10,10,,c	8260	pH<2
15	V05180614N15	I1821574-15,31,10,10,,c	8260	pH<2
16	V05180614N16	I1821574-17,31,10,10,,c	8260	pH<2
17	V05180614N17	I1821574-16D,31,0.2,10,,a	8260	pH<2
18	V05180614N18	I1821574-18D,31,0.1,10,,a	8260	pH<2
19	V05180614N19	I1821938-03,31,10,10,,a	NYCURVE	pH<2
20	V05180614N20	I1821938-01D,31,0.1,10,,a	NYCURVE	pH<2
21	V05180614N21	I1821938-04D,31,0.1,10,,a	NYCURVE	pH<2
22	V05180614N22	I1821938-02D,31,0.02,10,,a	NYCURVE	pH<2

www.alphalab.com

Alpha Analytical

Laboratory Code: 11148

SDG Number: L1821916

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Table of Contents

New York ASP Category B Data Deliverable Package 1
Table of Contents 2
Sample ID Cross Reference 4
SDG Narrative 5
Data Qualifier Definitions 7
Instrument Information 9
Volatile Organics Instruments 9
Volatile Organics in Air Instruments 9
Semivolatile Organics Instruments - Westborough 10
Semivolatile Organic Instruments - Mansfield 11
Sample Log-in Sheet 12
Lims COC (LN01) 13
External Chain of Custody 14
Supporting Documentation 15
Air Canister Report 16
Air Canister Certification Results 17
Organics Analysis 25
Volatile Organics in Air TO-15 Low Level 26
Volatiles QC Summary 27
Form 3 - Organics 28
Form 4 - Organics 35
Form 5 - Organics 36
Form 8 - Organics 38
MDL Study - Volatile Organics in Air: TO-15 39
Volatiles Sample Data 42
Form 1 - Organics 43
OA02_2018.06.12 (L1821916-03) Analyzed: 06/17/18 01:35 60
SV05_2018.06.12 (L1821916-01) Analyzed: 06/17/18 02:13 77
SV06_2018.06.12 (L1821916-02) Analyzed: 06/17/18 02:51 106
Volatile Standards Data 140
Initial Calibration 141
Form 6 - Organics 142
ICAL for AIRLAB17 on 05/22/18 ICAL14731 146
Initial Calibration Summary - Cal Date: 05/22/18 00:00 146
BFB Injected on: 05/21/18 14:26 150
STD0.2 Injected on: 05/21/18 17:00 151
STD0.5 Injected on: 05/21/18 17:39 158
STD1.0 Injected on: 05/21/18 18:19 164
STD5.0 Injected on: 05/21/18 18:58 171
STD10.0 Injected on: 05/21/18 19:38 180
STD20 Injected on: 05/21/18 20:16 196
STD50 Injected on: 05/21/18 20:54 202
STD100 Injected on: 05/21/18 21:35 208
ICV Summary 215
ICV Quant Injected on: 05/22/18 11:43 218
Continuing Calibration 226
Form 7 - Organics 227
CC Summary - AIRLAB17 Run: 06/16/18 15:23 230
CC Quant - AIRLAB17 Run: 06/16/18 15:23 233
bfb tune - Inst. AIRLAB17 06/16/18 14:02 240

Table of Contents

Volatiles Raw QC Data 241
Laboratory Method Bl (WG1126781-4) Analyzed: 06/16/18 17:31 242
LCS Summary for WG1126781-3 254
Laboratory Control S (WG1126781-3) Analyzed: 06/16/18 15:23 257
Duplicate Sample (WG1126781-5) Analyzed: 06/17/18 03:30 367
Air Calculations 400
QC Batch WG1126781 402
ICAL Sequence for AIRLAB17 on 22-MAY-2018 00:00 ICAL14731 403
Sequence Log 406

Project Name: MASTER CLEANERS
Project Number: 16.6345

Lab Number: L1821916
Report Date: 06/19/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1821916-01	SV05_2018.06.12	SOIL_VAPOR	GUILDERLAND, NY	06/12/18 15:18	06/12/18
L1821916-02	SV06_2018.06.12	SOIL_VAPOR	GUILDERLAND, NY	06/12/18 15:17	06/12/18
L1821916-03	OA02_2018.06.12	AIR	GUILDERLAND, NY	06/12/18 15:20	06/12/18

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.

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on June 12, 2018. The canister certification results are provided as an addendum.

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: Christopher J Anderson Report Date: 06/19/18

Title: Technical Director/Representative

GLOSSARY

Acronyms

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).
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.
LCSD	- 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.
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.
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.
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

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.

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.

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 Condensation Product".
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

Data Qualifiers

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.

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.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 5975MSD (or equivalent)	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics in Air Instruments

Volatile Organics in Air:
Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE

Concentrator: Entech 7100A or 7200	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	Column Length: 60 Meters
	df: 1.00 um
	ID: 0.52 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 ul
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul
Column Type: Restek RTX-5MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB

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

Herbicides

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-1701	df: 0.25
Column B: Restek RTX-5	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum

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

EPH

Instrument: Agilent 6890N w/FID	Injection Volume: 1uL
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, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 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 (ECD):

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 (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 : L1821916

Account Name : C.T. Male Associates
Project Number : 16.6345
Project Name : MASTER CLEANERS

Received : 12-JUN-2018
Reviewer : Chris Anderson

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

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

Condition Information

All samples on COC received?	**YES**
Extra samples received?	**NO**
Are there any sample container discrepancies?	**NO**
Are there any discrepancies between sample labels & COC?	**NO**
Are samples in appropriate containers for requested analysis?	**YES**
Are samples properly preserved for requested analysis?	**NO**
Are samples within holding time for requested analysis?	**YES**
All sampling equipment returned?	**YES**

Volatile Organics/VPH

Reagent Water Vials Frozen by Client?	**NA**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Jun 19 2018, 05:04 pm

Login Number: L1821916
Account: CTMALE C.T. Male AssociatesProject: 16.6345
Received: 12JUN18 Due Date: 19JUN18

Sample #	Client ID	Mat	PR	Collected
L1821916-01	SV05_2018.06.12	11	S0	12JUN18 15:18
| ASP-B Package Due Date: 06/19/18				
ASP-B,CAN-RENT,FLOW-RENT,TO15-LL				
L1821916-02	SV06_2018.06.12	11	S0	12JUN18 15:17
| Package Due Date: 06/19/18				
CAN-RENT,FLOW-RENT,TO15-LL				
L1821916-03	OA02_2018.06.12	10	S0	12JUN18 15:20
| Package Due Date: 06/19/18				
CAN-RENT,FLOW-RENT,TO15-LL				

Logged By: Kim L. Bailey

AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL — CHAIN OF CUSTODY

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

Date Rec'd in Lab: 6/13/18

ALPHA Job #: L1821916

Client Information

Client: C.T. Male Associates
Address: 50 Century Hill Dr
Latham, NY 12110
Phone: 518 786 7400
Fax: 518 786 7299
Email: J.Marx@CTMale.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Master Cleaners
Project Location: Guilderland, NY
Project #: 16.6345
Project Manager: Jeff Marx
ALPHA Quote #:

Turn-Around Time

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

Date Due: Time:

Report Information - Data Deliverables

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

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subtract non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
21916 .01	SV05_2018.06.12	6/12/18	1318	1518	-30.17	-6.64	SV	DA	2.7	1738	0745	X					
.02	SV06_2018.06.12	↓	1317	1517	-29.76	-5.42	SV	DA	2.7	455	0809	X					
.03	OA02_2018.06.12	↓	1320	1520	-29.06	-7.82	AA Ambient	DA	2.7	118	0454	X					

*SAMPLE MATRIX CODES

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

Container Type: SC

Relinquished By:	Date/Time	Received By:	Date/Time:
	6-12-18 1657	ATL	6-12-18 1607
	6-12-18 1610		6/13/18 1125
	06/13/18 0605		6/13/18 06:05

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.

Form No: 101-02 Rev: (25-Sep-15)

Supporting Documentation

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 Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1821916-01	SV05_2018.06.12	0745	#30 SV	06/12/18	267675		-	-	-	Pass	18.0	18.1	1
L1821916-01	SV05_2018.06.12	1738	2.7L Can	06/12/18	267675	L1820822-01	Pass	-30.0	-6.8	-	-	-	-
L1821916-02	SV06_2018.06.12	0809	Flow 4	06/12/18	267675		-	-	-	Pass	18.0	19.3	7
L1821916-02	SV06_2018.06.12	455	2.7L Can	06/12/18	267675	L1820822-01	Pass	-29.5	-5.9	-	-	-	-
L1821916-03	OA02_2018.06.12	0454	Flow 3	06/12/18	267675		-	-	-	Pass	18.0	18.4	2
L1821916-03	OA02_2018.06.12	118	2.7L Can	06/12/18	267675	L1820822-01	Pass	-29.5	-7.9	-	-	-	-

Air Canister Certification Results

Lab ID: L1820822-01
Client ID: CAN 385 SHELF 2
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 06/06/18 19:15
Analyst: GJ

Date Collected: 06/05/18 16:00
Date Received: 06/06/18
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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

Air Canister Certification Results

Lab ID: L1820822-01 Date Collected: 06/05/18 16:00
Client ID: CAN 385 SHELF 2 Date Received: 06/06/18
Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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
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
1,1,1-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
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1

Air Canister Certification Results

Lab ID: L1820822-01 Date Collected: 06/05/18 16:00
Client ID: CAN 385 SHELF 2 Date Received: 06/06/18
Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air								
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
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1

Air Canister Certification Results

Lab ID: L1820822-01 Date Collected: 06/05/18 16:00
Client ID: CAN 385 SHELF 2 Date Received: 06/06/18
Sample Location: Field Prep: Not Specified

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

Air Canister Certification Results

Lab ID: L1820822-01 Date Collected: 06/05/18 16:00
Client ID: CAN 385 SHELF 2 Date Received: 06/06/18
Sample Location: Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	86		60-140

Air Canister Certification Results

Lab ID: L1820822-01
Client ID: CAN 385 SHELF 2
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 06/06/18 19:15
Analyst: GJ

Date Collected: 06/05/18 16:00
Date Received: 06/06/18
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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
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
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1

Air Canister Certification Results

Lab ID: L1820822-01 Date Collected: 06/05/18 16:00
Client ID: CAN 385 SHELF 2 Date Received: 06/06/18
Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM								
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
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1

Air Canister Certification Results

Lab ID: L1820822-01 Date Collected: 06/05/18 16:00
Client ID: CAN 385 SHELF 2 Date Received: 06/06/18
Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM								
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	87		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	87		60-140

Organics

Volatile Organics in Air
TO-15 Low Level

Volatiles QC Summary

Lab Duplicates
Form 3

Client	: C.T. Male Associates	Lab Number	: L1821916
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Client Sample ID	: SV06_2018.06.12	Matrix	: AIR
Lab Sample ID	: L1821916-02	Analysis Date	: 06/17/18 02:51
Lab File ID	: R172312	DUP File ID	: r172313
Dup Sample ID	: WG1126781-5	DUP Analysis Date	: 06/17/18 03:30

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Dichlorodifluoromethane	0.555	0.585	5	25
Chloromethane	ND	ND	NC	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	NC	25
Vinyl chloride	ND	ND	NC	25
1,3-Butadiene	ND	ND	NC	25
Bromomethane	ND	ND	NC	25
Chloroethane	ND	ND	NC	25
Ethyl Alcohol	ND	ND	NC	25
Vinyl bromide	ND	ND	NC	25
Acetone	3.82	3.78	1	25
Trichlorofluoromethane	0.238	0.233	2	25
iso-Propyl Alcohol	ND	ND	NC	25
1,1-Dichloroethene	ND	ND	NC	25
tert-Butyl Alcohol	ND	ND	NC	25
Methylene chloride	ND	ND	NC	25
3-Chloropropene	ND	ND	NC	25
Carbon disulfide	1.23	1.16	6	25
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	ND	NC	25
trans-1,2-Dichloroethene	ND	ND	NC	25
1,1-Dichloroethane	ND	ND	NC	25
Methyl tert butyl ether	ND	ND	NC	25
2-Butanone	0.692	0.701	1	25
cis-1,2-Dichloroethene	ND	ND	NC	25
Ethyl Acetate	ND	ND	NC	25
Chloroform	1.40	1.37	2	25
Tetrahydrofuran	ND	ND	NC	25
1,2-Dichloroethane	ND	ND	NC	25

Lab Duplicates
Form 3

Client	: C.T. Male Associates	Lab Number	: L1821916
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Client Sample ID	: SV06_2018.06.12	Matrix	: AIR
Lab Sample ID	: L1821916-02	Analysis Date	: 06/17/18 02:51
Lab File ID	: R172312	DUP File ID	: r172313
Dup Sample ID	: WG1126781-5	DUP Analysis Date	: 06/17/18 03:30

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
n-Hexane	2.07	2.10	1	25
1,1,1-Trichloroethane	ND	ND	NC	25
Benzene	ND	ND	NC	25
Carbon tetrachloride	ND	ND	NC	25
Cyclohexane	0.951	0.984	3	25
1,2-Dichloropropane	ND	ND	NC	25
Bromodichloromethane	ND	ND	NC	25
1,4-Dioxane	ND	ND	NC	25
Trichloroethene	ND	ND	NC	25
2,2,4-Trimethylpentane	ND	ND	NC	25
Heptane	0.238	0.245	3	25
cis-1,3-Dichloropropene	ND	ND	NC	25
4-Methyl-2-pentanone	3.04	3.20	5	25
trans-1,3-Dichloropropene	ND	ND	NC	25
1,1,2-Trichloroethane	ND	ND	NC	25
Toluene	1.65	1.62	2	25
2-Hexanone	ND	ND	NC	25
Dibromochloromethane	ND	ND	NC	25
1,2-Dibromoethane	ND	ND	NC	25
Tetrachloroethene	29.2	28.8	1	25
Chlorobenzene	ND	ND	NC	25
Ethylbenzene	ND	ND	NC	25
p/m-Xylene	ND	ND	NC	25
Bromoform	ND	ND	NC	25
Styrene	ND	ND	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	NC	25
o-Xylene	ND	ND	NC	25

Lab Duplicates
Form 3

Client	: C.T. Male Associates	**Lab Number**	: L1821916
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345
Client Sample ID	: SV06_2018.06.12	**Matrix**	: AIR
Lab Sample ID	: L1821916-02	**Analysis Date**	: 06/17/18 02:51
Lab File ID	: R172312	**DUP File ID**	: r172313
Dup Sample ID	: WG1126781-5	**DUP Analysis Date**	: 06/17/18 03:30

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
4-Ethyltoluene	ND	ND	NC	25
1,3,5-Trimethylbenzene	ND	ND	NC	25
1,2,4-Trimethylbenzene	ND	ND	NC	25
Benzyl chloride	ND	ND	NC	25
1,3-Dichlorobenzene	ND	ND	NC	25
1,4-Dichlorobenzene	ND	ND	NC	25
1,2-Dichlorobenzene	ND	ND	NC	25
1,2,4-Trichlorobenzene	ND	ND	NC	25
Hexachlorobutadiene	ND	ND	NC	25

Laboratory Control Sample
Form 3

Client	: C.T. Male Associates	**Lab Number**	: L1821916
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345
Matrix	: AIR		
LCS Sample ID	: WG1126781-3	**Analysis Date** : 06/16/18 15:23	**File ID** : r172296
LCSD Sample ID	:	**Analysis Date** :	**File ID** :

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R	RPD	Recovery Limits	RPD Limit
Chlorodifluoromethane	10	8.44	84				-	70-130	-
Propylene	10	10.4	104				-	70-130	-
Propane	10	7.51	75				-	70-130	-
Dichlorodifluoromethane	10	9.51	95				-	70-130	-
Chloromethane	10	8.75	88				-	70-130	-
1,2-Dichloro-1,1,2,2-tetrafluoroethane	10	9.84	98				-	70-130	-
Methanol	50	40.3	81				-	70-130	-
Vinyl chloride	10	9.58	96				-	70-130	-
1,3-Butadiene	10	9.76	98				-	70-130	-
Butane	10	8.36	84				-	70-130	-
Bromomethane	10	9.76	98				-	70-130	-
Chloroethane	10	9.07	91				-	70-130	-
Ethyl Alcohol	50	45.3	91				-	70-130	-
Dichlorofluoromethane	10	10.4	104				-	70-130	-
Vinyl bromide	10	9.87	99				-	70-130	-
Acrolein	10	8.36	84				-	70-130	-
Acetone	50	37.7	75				-	70-130	-
Acetonitrile	10	8.08	81				-	70-130	-
Trichlorofluoromethane	10	10.0	100				-	70-130	-
iso-Propyl Alcohol	25	17.4	70				-	70-130	-
Acrylonitrile	10	8.50	85				-	70-130	-
Pentane	10	7.84	78				-	70-130	-
Ethyl ether	10	7.77	78				-	70-130	-
1,1-Dichloroethene	10	9.42	94				-	70-130	-
tert-Butyl Alcohol	10	7.86	79				-	70-130	-
Methylene chloride	10	9.00	90				-	70-130	-

Laboratory Control Sample
Form 3

Client	: C.T. Male Associates	**Lab Number**	: L1821916
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345
Matrix	: AIR		
LCS Sample ID	: WG1126781-3	**Analysis Date** : 06/16/18 15:23	**File ID** : r172296
LCSD Sample ID	:	**Analysis Date** :	**File ID** :

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R	RPD	Recovery Limits	RPD Limit
3-Chloropropene	10	9.50	95				-	70-130	-
Carbon disulfide	10	9.26	93				-	70-130	-
1,1,2-Trichloro-1,2,2-Trifluoroethane	10	10.1	101				-	70-130	-
trans-1,2-Dichloroethene	10	9.28	93				-	70-130	-
1,1-Dichloroethane	10	8.85	88				-	70-130	-
Methyl tert butyl ether	10	9.05	90				-	70-130	-
Vinyl acetate	10	10.3	103				-	70-130	-
2-Butanone	10	8.95	90				-	70-130	-
cis-1,2-Dichloroethene	10	8.97	90				-	70-130	-
Ethyl Acetate	10	10.3	103				-	70-130	-
Chloroform	10	10.1	101				-	70-130	-
Tetrahydrofuran	10	9.24	92				-	70-130	-
2,2-Dichloropropane	10	9.03	90				-	70-130	-
1,2-Dichloroethane	10	9.61	96				-	70-130	-
n-Hexane	10	9.09	91				-	70-130	-
Isopropyl Ether	10	8.11	81				-	70-130	-
Ethyl-Tert-Butyl-Ether	10	7.56	76				-	70-130	-
1,1,1-Trichloroethane	10	9.32	93				-	70-130	-
1,1-Dichloropropene	10	8.63	86				-	70-130	-
Benzene	10	8.48	85				-	70-130	-
Carbon tetrachloride	10	9.89	99				-	70-130	-
Cyclohexane	10	9.08	91				-	70-130	-
Tertiary-Amyl Methyl Ether	10	7.38	74				-	70-130	-
Dibromomethane	10	8.27	83				-	70-130	-
1,2-Dichloropropane	10	8.49	85				-	70-130	-
Bromodichloromethane	10	9.63	96				-	70-130	-

Laboratory Control Sample
Form 3

Client	: C.T. Male Associates	**Lab Number**	: L1821916
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345
Matrix	: AIR		
LCS Sample ID	: WG1126781-3	**Analysis Date** : 06/16/18 15:23	**File ID** : r172296
LCSD Sample ID	:	**Analysis Date** :	**File ID** :

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R	RPD	Recovery Limits	RPD Limit
1,4-Dioxane	10	9.42	94				-	70-130	-
Trichloroethene	10	9.18	92				-	70-130	-
2,2,4-Trimethylpentane	10	9.43	94				-	70-130	-
Heptane	10	8.69	87				-	70-130	-
cis-1,3-Dichloropropene	10	9.25	92				-	70-130	-
4-Methyl-2-pentanone	10	8.47	85				-	70-130	-
trans-1,3-Dichloropropene	10	7.99	80				-	70-130	-
1,1,2-Trichloroethane	10	8.85	88				-	70-130	-
Toluene	10	9.52	95				-	70-130	-
1,3-Dichloropropane	10	8.66	87				-	70-130	-
2-Hexanone	10	8.86	89				-	70-130	-
Dibromochloromethane	10	11.0	110				-	70-130	-
1,2-Dibromoethane	10	9.71	97				-	70-130	-
Butyl Acetate	10	8.56	86				-	70-130	-
Octane	10	9.09	91				-	70-130	-
Tetrachloroethene	10	9.64	96				-	70-130	-
1,1,1,2-Tetrachloroethane	10	9.49	95				-	70-130	-
Chlorobenzene	10	9.68	97				-	70-130	-
Ethylbenzene	10	10.0	100				-	70-130	-
p/m-Xylene	20	19.8	99				-	70-130	-
Bromoform	10	11.0	110				-	70-130	-
Styrene	10	9.91	99				-	70-130	-
1,1,2,2-Tetrachloroethane	10	9.99	100				-	70-130	-
o-Xylene	10	10.3	103				-	70-130	-
1,2,3-Trichloropropane	10	8.92	89				-	70-130	-
Nonane (C9)	10	8.48	85				-	70-130	-
Isopropylbenzene	10	9.87	99				-	70-130	-
Bromobenzene	10	8.94	89				-	70-130	-

Laboratory Control Sample
Form 3

Client	: C.T. Male Associates	**Lab Number**	: L1821916
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345
Matrix	: AIR		
LCS Sample ID	: WG1126781-3	**Analysis Date** : 06/16/18 15:23	**File ID** : r172296
LCSD Sample ID	:	**Analysis Date** :	**File ID** :

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R	RPD	Recovery Limits	RPD Limit
o-Chlorotoluene	10	9.36	94				-	70-130	-
n-Propylbenzene	10	9.75	98				-	70-130	-
p-Chlorotoluene	10	9.40	94				-	70-130	-
4-Ethyltoluene	10	10.7	107				-	70-130	-
1,3,5-Trimethylbenzene	10	11.1	111				-	70-130	-
tert-Butylbenzene	10	10.2	102				-	70-130	-
1,2,4-Trimethylbenzene	10	10.9	109				-	70-130	-
Decane (C10)	10	9.61	96				-	70-130	-
Benzyl chloride	10	11.5	115				-	70-130	-
1,3-Dichlorobenzene	10	10.6	106				-	70-130	-
1,4-Dichlorobenzene	10	10.3	103				-	70-130	-
sec-Butylbenzene	10	9.84	98				-	70-130	-
p-Isopropyltoluene	10	9.60	96				-	70-130	-
1,2-Dichlorobenzene	10	10.5	105				-	70-130	-
n-Butylbenzene	10	10.4	104				-	70-130	-
1,2-Dibromo-3-chloropropane	10	9.73	97				-	70-130	-
Undecane	10	9.74	97				-	70-130	-
Dodecane (C12)	10	9.79	98				-	70-130	-
1,2,4-Trichlorobenzene	10	10.6	106				-	70-130	-
Naphthalene	10	10.2	102				-	70-130	-
1,2,3-Trichlorobenzene	10	9.85	98				-	70-130	-
Hexachlorobutadiene	10	10.6	106				-	70-130	-

Method Blank Summary
Form 4
AIRVOA

Client	: C.T. Male Associates	**Lab Number**	: L1821916
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345
Lab Sample ID	: WG1126781-4	**Lab File ID**	: r172298
Instrument ID	: AIRLAB17		
Matrix	: AIR	**Analysis Date**	: 06/16/18 17:31

Client Sample No.	Lab Sample ID	Analysis Date
WG1126781-3LCS	WG1126781-3	06/16/18 15:23
OA02_2018.06.12	L1821916-03	06/17/18 01:35
SV05_2018.06.12	L1821916-01	06/17/18 02:13
SV06_2018.06.12	L1821916-02	06/17/18 02:51
SV06_2018.06.12DUP	WG1126781-5	06/17/18 03:30

Instrument Performance Check
Bromofluorobenzene (BFB)
Form 5

Client	: C.T. Male Associates	**Lab Number**	: L1821916
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345
Instrument ID	: AIRLAB17	**Analysis Date**	: 05/21/18 14:26
Tune Standard	: WG1118303-1	**Tune File ID**	: r171753_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	13.2
75	30.0 - 66.0% of mass 95	36.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.4 (.6)1
174	50.0 - 120.0% of mass 95	72.5
175	4.0 - 9.0% of mass 174	5.2 (7.1)1
176	93.0 - 101% of mass 174	69.1 (95.3)1
177	5.0 - 9.0% of mass 176	4.7 (6.8)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	R1074657-1	R171757	05/21/18 17:00
STD0.5	R1074657-2	R171758	05/21/18 17:39
STD1.0	R1074657-4	R171759	05/21/18 18:19
STD5.0	R1074657-3	R171760	05/21/18 18:58
STD10.0	R1074657-5	R171761	05/21/18 19:38
STD20	R1074657-6	R171762	05/21/18 20:16
STD50	R1074657-7	R171763	05/21/18 20:54
STD100	R1074657-8	R171764	05/21/18 21:35
ICV Quant	R1074657-9	R171767	05/22/18 11:43

Instrument Performance Check
Bromofluorobenzene (BFB)
Form 5

Client	: C.T. Male Associates	**Lab Number**	: L1821916
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345
Instrument ID	: AIRLAB17	**Analysis Date**	: 06/16/18 14:02
Tune Standard	: WG1126781-1	**Tune File ID**	: r172294_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	12.7
75	30.0 - 66.0% of mass 95	36.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.4 (.5)1
174	50.0 - 120.0% of mass 95	75.8
175	4.0 - 9.0% of mass 174	5.5 (7.2)1
176	93.0 - 101% of mass 174	72.8 (96)1
177	5.0 - 9.0% of mass 176	4.9 (6.7)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
WG1126781-2CCAL	WG1126781-2	R172296	06/16/18 15:23
WG1126781-3LCS	WG1126781-3	R172296	06/16/18 15:23
WG1126781-4BLANK	WG1126781-4	R172298	06/16/18 17:31
OA02_2018.06.12	L1821916-03	R172310	06/17/18 01:35
SV05_2018.06.12	L1821916-01	R172311	06/17/18 02:13
SV06_2018.06.12	L1821916-02	R172312	06/17/18 02:51
WG1126781-5DUP	WG1126781-5	R172313	06/17/18 03:30

Internal Standard Area and RT Summary
Form 8

Client	: C.T. Male Associates	**Lab Number**	: L1821916
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345
Instrument ID	: AIRLAB17	**Analysis Date**	: 06/16/18 15:23
Sample No	: WG1126781-2	**Lab File ID**	: R172296

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1126781-2	188951	9.45	604388	11.69	80538	16.43
Upper Limit	264531	9.78	846143	12.02	112753	16.76
Lower Limit	113371	9.12	362633	11.36	48323	16.10
Sample ID						
WG1126781-3 LCS	188951	9.45	604388	11.69	80538	16.43
WG1126781-4 BLANK	170842	9.45	539881	11.69	70747	16.38
OA02_2018.06.12	159557	9.45	500760	11.69	67683	16.42
SV05_2018.06.12	171345	9.45	570584	11.69	74973	16.42
SV06_2018.06.12	169711	9.45	549541	11.69	78804	16.42
SV06_2018.06.12 DUP	171477	9.45	549016	11.69	80988	16.42

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: 08/16/17
Created By: Jason Hebert
File: PM3922-1
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	0.057	ppbV	70-130			25	25			
1,1,2,2-Tetrachloroethane	79-34-5	0.2	0.0548	ppbV	70-130			25	25			
1,1,2-Trichloroethane	79-00-5	0.2	0.0667	ppbV	70-130			25	25			
1,1-Dichloroethane	75-34-3	0.2	0.0771	ppbV	70-130			25	25			
1,1-Dichloroethene	75-35-4	0.2	0.0566	ppbV	70-130			25	25			
1,2,3-Trimethylbenzene	526-73-8	0.2	0.0751	ppbV	70-130			25	25			
1,2,4-Trichlorobenzene	120-82-1	0.2	0.0611	ppbV	70-130			25	25			
1,2,4-Trimethylbenzene	95-63-6	0.2	0.0694	ppbV	70-130			25	25			
1,2,4,5-Tetramethylbenzene	95-93-2	0.2	0.0795	ppbV	70-130			25	25			
1,2-Dibromoethane	106-93-4	0.2	0.0779	ppbV	70-130			25	25			
1,2-Dichlorobenzene	95-50-1	0.2	0.0614	ppbV	70-130			25	25			
1,2-Dichloroethane	107-06-2	0.2	0.0552	ppbV	70-130			25	25			
1,2-Dichloropropane	78-87-5	0.2	0.0697	ppbV	70-130			25	25			
1,3,5-Trimethylbenzene	108-67-8	0.2	0.0584	ppbV	70-130			25	25			
1,3-Butadiene	106-99-0	0.2	0.0799	ppbV	70-130			25	25			
1,3-Dichlorobenzene	541-73-1	0.2	0.0637	ppbV	70-130			25	25			
1,4-Dichlorobenzene	106-46-7	0.2	0.0418	ppbV	70-130			25	25			
1,4-Dioxane	123-91-1	0.2	0.078	ppbV	70-130			25	25			
2,2,4-Trimethylpentane	540-84-1	0.2	0.0659	ppbV	70-130			25	25			
2-Butanone	78-93-3	0.5	0.0522	ppbV	70-130			25	25			
2-Hexanone	591-78-6	0.2	0.0604	ppbV	70-130			25	25			
2-Methylthiophene	554-14-3	0.2	0.0789	ppbV	70-130			25	25			
3-Methylthiophene	616-44-4	0.2	0.0669	ppbV	70-130			25	25			
3-Chloropropene	107-05-1	0.2	0.0812	ppbV	70-130			25	25			
2-Ethylthiophene	872-55-9	0.2	0.0571	ppbV	70-130			25	25			
4-Ethyltoluene	622-96-8	0.2	0.0776	ppbV	70-130			25	25			
Acetone	67-64-1	1	0.165	ppbV	70-130			25	25			
Benzene	71-43-2	0.2	0.0537	ppbV	70-130			25	25			
Benzyl chloride	100-44-7	0.2	0.0645	ppbV	70-130			25	25			
Benzothiophene	95-15-8	0.5	0.0468	ppbV	70-130			25	25			
Bromodichloromethane	75-27-4	0.2	0.0656	ppbV	70-130			25	25			
Bromoform	75-25-2	0.2	0.0523	ppbV	70-130			25	25			
Bromomethane	74-83-9	0.2	0.0696	ppbV	70-130			25	25			
Carbon disulfide	75-15-0	0.2	0.0345	ppbV	70-130			25	25			
Carbon tetrachloride	56-23-5	0.2	0.0471	ppbV	70-130			25	25			
Chlorobenzene	108-90-7	0.2	0.0789	ppbV	70-130			25	25			
Chloroethane	75-00-3	0.2	0.0767	ppbV	70-130			25	25			
Chloroform	67-66-3	0.2	0.0452	ppbV	70-130			25	25			
Chloromethane	74-87-3	0.2	0.0958	ppbV	70-130			25	25			
cis-1,2-Dichloroethene	156-59-2	0.2	0.0587	ppbV	70-130			25	25			
cis-1,3-Dichloropropene	10061-01-5	0.2	0.0745	ppbV	70-130			25	25			
Cyclohexane	110-82-7	0.2	0.0656	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)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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	0.0747	ppbV	70-130			25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.0466	ppbV	70-130			25	25			
Ethyl Alcohol	GCDAI06	5	0.542	ppbV	70-130			25	25			
Ethyl Acetate	141-78-6	0.5	0.131	ppbV	70-130			25	25			
Ethylbenzene	100-41-4	0.2	0.0555	ppbV	70-130			25	25			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.2	0.0511	ppbV	70-130			25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.2	0.0419	ppbV	70-130			25	25			
Hexachlorobutadiene	87-68-3	0.2	0.0732	ppbV	70-130			25	25			
iso-Propyl Alcohol	67-63-0	0.5	0.084	ppbV	70-130			25	25			
Methylene chloride	75-09-2	0.5	0.0622	ppbV	70-130			25	25			
4-Methyl-2-pentanone	108-10-1	0.5	0.0607	ppbV	70-130			25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.0452	ppbV	70-130			25	25			
Methyl Methacrylate	80-62-6	0.5	0.147	ppbV	70-130			25	25			
p/m-Xylene	179601-23-1	0.4	0.139	ppbV	70-130			25	25			
o-Xylene	95-47-6	0.2	0.0631	ppbV	70-130			25	25			
Xylene (Total)	1330-20-7	0.2	0.0631	ppbV	70-130			25	25			
Heptane	142-82-5	0.2	0.0553	ppbV	70-130			25	25			
n-Heptane	142-82-5	0.2	0.0553	ppbV	70-130			25	25			
n-Hexane	110-54-3	0.2	0.0518	ppbV	70-130			25	25			
Propylene	115-07-1	0.5	0.0929	ppbV	70-130			25	25			
Styrene	100-42-5	0.2	0.0799	ppbV	70-130			25	25			
Tetrachloroethene	127-18-4	0.2	0.0758	ppbV	70-130			25	25			
Thiophene	110-02-1	0.2	0.0528	ppbV	70-130			25	25			
Tetrahydrofuran	109-99-9	0.5	0.0608	ppbV	70-130			25	25			
Toluene	108-88-3	0.2	0.0628	ppbV	70-130			25	25			
trans-1,2-Dichloroethene	156-60-5	0.2	0.074	ppbV	70-130			25	25			
1,2-Dichloroethene (total)	540-59-0	0.2	0.0587	ppbV	70-130			25	25			
trans-1,3-Dichloropropene	10061-02-6	0.2	0.0693	ppbV	70-130			25	25			
1,3-Dichloropropene, Total	542-75-6	0.2	0.0693	ppbV	70-130			25	25			
Trichloroethene	79-01-6	0.2	0.071	ppbV	70-130			25	25			
Trichlorofluoromethane	75-69-4	0.2	0.0416	ppbV	70-130			25	25			
Vinyl acetate	108-05-4	1	0.0567	ppbV	70-130			25	25			
Vinyl bromide	593-60-2	0.2	0.0699	ppbV	70-130			25	25			
Vinyl chloride	75-01-4	0.2	0.0394	ppbV	70-130			25	25			
Naphthalene	91-20-3	0.2	0.0425	ppbV	70-130			25	25			
Total HC As Hexane	NONE	10	0.0518	ppbV	70-130			25	25			
Total VOCs As Toluene	NONE	10	0.0628	ppbV	70-130			25	25			
Propane	74-98-6	0.5	0.114	ppbV	70-130			25	25			
Acrylonitrile	107-13-1	0.5	0.079	ppbV	70-130			25	25			
Acrolein	107-02-8	0.5	0.114	ppbV	70-130			25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.2	0.0547	ppbV	70-130			25	25			
Isopropylbenzene	98-82-8	0.2	0.043	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)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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	0.0767	ppbV	70-130			25	25			
Acetonitrile	75-05-8	0.2	0.0761	ppbV	70-130			25	25			
Bromobenzene	108-86-1	0.2	0.079	ppbV	70-130			25	25			
Chlorodifluoromethane	75-45-6	0.2	0.0626	ppbV	70-130			25	25			
Dichlorofluoromethane	75-43-4	0.2	0.0572	ppbV	70-130			25	25			
Dibromomethane	74-95-3	0.2	0.0476	ppbV	70-130			25	25			
Pentane	109-66-0	0.2	0.0475	ppbV	70-130			25	25			
Octane	111-65-9	0.2	0.0421	ppbV	70-130			25	25			
Tertiary-Amyl Methyl Ether	994-05-8	0.2	0.0795	ppbV	70-130			25	25			
o-Chlorotoluene	95-49-8	0.2	0.0487	ppbV	70-130			25	25			
p-Chlorotoluene	106-43-4	0.2	0.0764	ppbV	70-130			25	25			
2,2-Dichloropropane	594-20-7	0.2	0.0581	ppbV	70-130			25	25			
1,1-Dichloropropene	563-58-6	0.2	0.0715	ppbV	70-130			25	25			
Isopropyl Ether	108-20-3	0.2	0.0656	ppbV	70-130			25	25			
Ethyl-Tert-Butyl-Ether	637-92-3	0.2	0.0515	ppbV	70-130			25	25			
1,2,3-Trichlorobenzene	87-61-6	0.2	0.0431	ppbV	70-130			25	25			
Ethyl ether	60-29-7	0.2	0.0591	ppbV	70-130			25	25			
n-Butylbenzene	104-51-8	0.2	0.0639	ppbV	70-130			25	25			
sec-Butylbenzene	135-98-8	0.2	0.0731	ppbV	70-130			25	25			
tert-Butylbenzene	98-06-6	0.2	0.0402	ppbV	70-130			25	25			
1,2-Dibromo-3-chloropropane	96-12-8	0.2	0.0744	ppbV	70-130			25	25			
p-Isopropyltoluene	99-87-6	0.2	0.0608	ppbV	70-130			25	25			
n-Propylbenzene	103-65-1	0.2	0.0559	ppbV	70-130			25	25			
1,3-Dichloropropane	142-28-9	0.2	0.0776	ppbV	70-130			25	25			
Methanol	67-56-1	5	0.736	ppbV	70-130			25	25			
Acetaldehyde	75-07-0	2.5	0.547	ppbV	70-130			25	25			
Butane	106-97-8	0.2	0.0442	ppbV	70-130			25	25			
Nonane (C9)	111-84-2	0.2	0.0644	ppbV	70-130			25	25			
Decane (C10)	124-18-5	0.2	0.0484	ppbV	70-130			25	25			
Undecane	1120-21-4	0.2	0.0528	ppbV	70-130			25	25			
Indane	496-11-7	0.2	0.0795	ppbV	70-130			25	25			
Indene	95-13-6	0.2	0.0608	ppbV	70-130			25	25			
1-Methylnaphthalene	90-12-0	1	0.286	ppbV	70-130			25	25			
Dodecane (C12)	112-40-3	0.2	0.0564	ppbV	70-130			25	25			
Butyl Acetate	123-86-4	0.5	0.114	ppbV	70-130			25	25			
tert-Butyl Alcohol	75-65-0	0.5	0.0599	ppbV	70-130			25	25			
2-Methylnaphthalene	91-57-6	1	0.0273	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. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Volatiles Sample Data

Form 1
Volatile Organics

Client	: C.T. Male Associates	Lab Number	: L1821916
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: L1821916-01	Date Collected	: 06/12/18 15:18
Client ID	: SV05_2018.06.12	Date Received	: 06/12/18
Sample Location	: GUILDERLAND, NY	Date Analyzed	: 06/17/18 02:13
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: MB
Lab File ID	: R172311	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.479	0.200	--	2.37	0.989	--	
74-87-3	Chloromethane	0.282	0.200	--	0.582	0.413	--	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethan	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	Ethyl Alcohol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	3.62	1.00	--	8.60	2.38	--	
75-69-4	Trichlorofluoromethane	0.220	0.200	--	1.24	1.12	--	
67-63-0	iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	tert-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	0.219	0.200	--	0.682	0.623	--	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	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	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	2.12	0.200	--	10.4	0.977	--	
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	0.209	0.200	--	0.737	0.705	--	

Form 1
Volatile Organics

Client	: C.T. Male Associates	Lab Number	: L1821916
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: L1821916-01	Date Collected	: 06/12/18 15:18
Client ID	: SV05_2018.06.12	Date Received	: 06/12/18
Sample Location	: GUILDERLAND, NY	Date Analyzed	: 06/17/18 02:13
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: MB
Lab File ID	: R172311	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
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	4.47	0.500	--	18.3	2.05	--	
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	1.20	0.200	--	4.52	0.754	--	
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	11.0	0.200	--	74.6	1.36	--	
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
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

Form 1
Volatile Organics

Client	: C.T. Male Associates	Lab Number	: L1821916
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: L1821916-01	Date Collected	: 06/12/18 15:18
Client ID	: SV05_2018.06.12	Date Received	: 06/12/18
Sample Location	: GUILDERLAND, NY	Date Analyzed	: 06/17/18 02:13
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: MB
Lab File ID	: R172311	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
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

Form 1
Volatile Organics

Client	: C.T. Male Associates	Lab Number	: L1821916
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: L1821916-02	Date Collected	: 06/12/18 15:17
Client ID	: SV06_2018.06.12	Date Received	: 06/12/18
Sample Location	: GUILDERLAND, NY	Date Analyzed	: 06/17/18 02:51
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: MB
Lab File ID	: R172312	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.555	0.200	--	2.74	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethan	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	Ethyl Alcohol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	3.82	1.00	--	9.07	2.38	--	
75-69-4	Trichlorofluoromethane	0.238	0.200	--	1.34	1.12	--	
67-63-0	iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	tert-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	1.23	0.200	--	3.83	0.623	--	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	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	0.692	0.500	--	2.04	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	1.40	0.200	--	6.84	0.977	--	
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	2.07	0.200	--	7.30	0.705	--	

Form 1
Volatile Organics

Client	: C.T. Male Associates	Lab Number	: L1821916
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: L1821916-02	Date Collected	: 06/12/18 15:17
Client ID	: SV06_2018.06.12	Date Received	: 06/12/18
Sample Location	: GUILDERLAND, NY	Date Analyzed	: 06/17/18 02:51
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: MB
Lab File ID	: R172312	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
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	0.951	0.200	--	3.27	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
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	0.238	0.200	--	0.975	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	3.04	0.500	--	12.5	2.05	--	
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	1.65	0.200	--	6.22	0.754	--	
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	29.2	0.200	--	198	1.36	--	
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
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

Form 1
Volatile Organics

Client	: C.T. Male Associates	Lab Number	: L1821916
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: L1821916-02	Date Collected	: 06/12/18 15:17
Client ID	: SV06_2018.06.12	Date Received	: 06/12/18
Sample Location	: GUILDERLAND, NY	Date Analyzed	: 06/17/18 02:51
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: MB
Lab File ID	: R172312	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
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

Form 1
Volatile Organics

Client	: C.T. Male Associates	Lab Number	: L1821916
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: L1821916-03	Date Collected	: 06/12/18 15:20
Client ID	: OA02_2018.06.12	Date Received	: 06/12/18
Sample Location	: GUILDERLAND, NY	Date Analyzed	: 06/17/18 01:35
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: MB
Lab File ID	: R172310	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.439	0.200	--	2.17	0.989	--	
74-87-3	Chloromethane	0.495	0.200	--	1.02	0.413	--	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethan	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	Ethyl Alcohol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.38	1.00	--	5.65	2.38	--	
75-69-4	Trichlorofluoromethane	0.223	0.200	--	1.25	1.12	--	
67-63-0	iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	tert-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	1,1,2-Trichloro-1,2,2-Trifluoroethane	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	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
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	0.219	0.200	--	0.772	0.705	--	

Form 1
Volatile Organics

Client	: C.T. Male Associates	Lab Number	: L1821916
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: L1821916-03	Date Collected	: 06/12/18 15:20
Client ID	: OA02_2018.06.12	Date Received	: 06/12/18
Sample Location	: GUILDERLAND, NY	Date Analyzed	: 06/17/18 01:35
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: MB
Lab File ID	: R172310	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
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
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

Form 1
Volatile Organics

Client	: C.T. Male Associates	**Lab Number**	: L1821916
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345
Lab ID	: L1821916-03	**Date Collected**	: 06/12/18 15:20
Client ID	: OA02_2018.06.12	**Date Received**	: 06/12/18
Sample Location	: GUILDERLAND, NY	**Date Analyzed**	: 06/17/18 01:35
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: MB
Lab File ID	: R172310	**Instrument ID**	: AIRLAB17
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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

Form 1
Volatile Organics

Client	: C.T. Male Associates	Lab Number	: L1821916
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: WG1126781-4	Date Collected	: NA
Client ID	: WG1126781-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 06/16/18 17:31
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: MB
Lab File ID	: R172298	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-45-6	Chlorodifluoromethane	ND	0.200	--	ND	0.707	--	U
115-07-1	Propylene	ND	0.500	--	ND	0.861	--	U
74-98-6	Propane	ND	0.500	--	ND	0.902	--	U
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	1,2-Dichloro-1,1,2,2-tetrafluoroethan	ND	0.200	--	ND	1.40	--	U
67-56-1	Methanol	ND	5.00	--	ND	6.55	--	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
106-97-8	Butane	ND	0.200	--	ND	0.475	--	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	Ethyl Alcohol	ND	5.00	--	ND	9.42	--	U
75-43-4	Dichlorofluoromethane	ND	0.200	--	ND	0.842	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
107-02-8	Acrolein	ND	0.500	--	ND	1.15	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-05-8	Acetonitrile	ND	0.200	--	ND	0.336	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--	U
107-13-1	Acrylonitrile	ND	0.500	--	ND	1.09	--	U
109-66-0	Pentane	ND	0.200	--	ND	0.590	--	U
60-29-7	Ethyl ether	ND	0.200	--	ND	0.606	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	tert-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

Form 1
Volatile Organics

Client	: C.T. Male Associates	Lab Number	: L1821916
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: WG1126781-4	Date Collected	: NA
Client ID	: WG1126781-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 06/16/18 17:31
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: MB
Lab File ID	: R172298	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	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
108-05-4	Vinyl acetate	ND	1.00	--	ND	3.52	--	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
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
594-20-7	2,2-Dichloropropane	ND	0.200	--	ND	0.924	--	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
108-20-3	Isopropyl Ether	ND	0.200	--	ND	0.836	--	U
637-92-3	Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
563-58-6	1,1-Dichloropropene	ND	0.200	--	ND	0.908	--	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
994-05-8	Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--	U
74-95-3	Dibromomethane	ND	0.200	--	ND	1.42	--	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

Form 1
Volatile Organics

Client	: C.T. Male Associates	Lab Number	: L1821916
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: WG1126781-4	Date Collected	: NA
Client ID	: WG1126781-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 06/16/18 17:31
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: MB
Lab File ID	: R172298	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
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
142-28-9	1,3-Dichloropropane	ND	0.200	--	ND	0.924	--	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
123-86-4	Butyl Acetate	ND	0.500	--	ND	2.38	--	U
111-65-9	Octane	ND	0.200	--	ND	0.934	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	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
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
96-18-4	1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--	U
111-84-2	Nonane (C9)	ND	0.200	--	ND	1.05	--	U
98-82-8	Isopropylbenzene	ND	0.200	--	ND	0.983	--	U
108-86-1	Bromobenzene	ND	0.200	--	ND	0.793	--	U
95-49-8	o-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
103-65-1	n-Propylbenzene	ND	0.200	--	ND	0.983	--	U
106-43-4	p-Chlorotoluene	ND	0.200	--	ND	1.04	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Form 1
Volatile Organics

Client	: C.T. Male Associates	Lab Number	: L1821916
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: WG1126781-4	Date Collected	: NA
Client ID	: WG1126781-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 06/16/18 17:31
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: MB
Lab File ID	: R172298	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
98-06-6	tert-Butylbenzene	ND	0.200	--	ND	1.10	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
124-18-5	Decane (C10)	ND	0.200	--	ND	1.16	--	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
135-98-8	sec-Butylbenzene	ND	0.200	--	ND	1.10	--	U
99-87-6	p-Isopropyltoluene	ND	0.200	--	ND	1.10	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
104-51-8	n-Butylbenzene	ND	0.200	--	ND	1.10	--	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--	U
1120-21-4	Undecane	ND	0.200	--	ND	1.28	--	U
112-40-3	Dodecane (C12)	ND	0.200	--	ND	1.39	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-61-6	1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Tentatively Identified Compounds
Volatile Organics

Client	: C.T. Male Associates	**Lab Number**	: L1821916
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345
Lab ID	: WG1126781-4	**Date Collected**	: NA
Client ID	: WG1126781-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 06/16/18 17:31
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: MB
Lab File ID	: r172298	**Instrument ID**	: AIRLAB17
Sample Amount	: 250 ml	**GC Column**	: RTX-1

Number TICS found: 0 **Concentration Units:**

CAS Number	Compound Name	RT	EST. CONC.	Qualifier
	NO TENTATIVELY IDENTIFIED COMPOUNDS			J

Form 1
Volatile Organics

Client	: C.T. Male Associates	Lab Number	: L1821916
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: WG1126781-5	Date Collected	: 06/12/18 15:17
Client ID	: SV06_2018.06.12DUP	Date Received	: 06/12/18
Sample Location	:	Date Analyzed	: 06/17/18 03:30
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: MB
Lab File ID	: R172313	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.585	0.200	--	2.89	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethan	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	Ethyl Alcohol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	3.78	1.00	--	8.98	2.38	--	
75-69-4	Trichlorofluoromethane	0.233	0.200	--	1.31	1.12	--	
67-63-0	iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	tert-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	1.16	0.200	--	3.61	0.623	--	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	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	0.701	0.500	--	2.07	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	1.37	0.200	--	6.69	0.977	--	
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	2.10	0.200	--	7.40	0.705	--	

Form 1
Volatile Organics

Client	: C.T. Male Associates	Lab Number	: L1821916
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: WG1126781-5	Date Collected	: 06/12/18 15:17
Client ID	: SV06_2018.06.12DUP	Date Received	: 06/12/18
Sample Location	:	Date Analyzed	: 06/17/18 03:30
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: MB
Lab File ID	: R172313	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
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	0.984	0.200	--	3.39	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
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	0.245	0.200	--	1.00	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	3.20	0.500	--	13.1	2.05	--	
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	1.62	0.200	--	6.10	0.754	--	
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	28.8	0.200	--	195.	1.36	--	
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
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

Form 1
Volatile Organics

Client	: C.T. Male Associates	Lab Number	: L1821916
Project Name	: MASTER CLEANERS	Project Number	: 16.6345
Lab ID	: WG1126781-5	Date Collected	: 06/12/18 15:17
Client ID	: SV06_2018.06.12DUP	Date Received	: 06/12/18
Sample Location	:	Date Analyzed	: 06/17/18 03:30
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: MB
Lab File ID	: R172313	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
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 : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172310.D
Acq On : 17 Jun 2018 1:35 AM
Operator : AIRLAB17:MB
Sample : L1821916-03,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 21:33:06 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180616T\r172296.D
Sub List : TO15-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.450	49	159557	10.000	ppbV	0.02
Standard Area = 188951			Recovery =	84.44%		
43) 1,4-difluorobenzene	11.687	114	500760	10.000	ppbV	0.02
Standard Area = 604388			Recovery =	82.85%		
67) chlorobenzene-D5	16.417	54	67683	10.000	ppbV	0.02
Standard Area = 80538			Recovery =	84.04%		
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.006	85	8683	0.439	ppbV	99
6) chloromethane	4.180	50	5069	0.495	ppbV	96
7) Freon-114	4.306		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	5.280	31	9420	1.290	ppbV	97
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.840	43	32529	2.376	ppbV #	97
21) trichlorofluoromethane	6.033	101	3932	0.223	ppbV	94
22) isopropyl alcohol	6.163	45	1601	0.097	ppbV #	85
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	6.876		0	N.D.		
28) methylene chloride	6.942	49	3584	0.285	ppbV	99
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.218		0	N.D.		
31) Freon 113	7.266	101	1516	0.069	ppbV	97
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.367		0	N.D.		
36) 2-butanone	8.767	43	4133	0.147	ppbV #	91
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.617		0	N.D.		
40) Tetrahydrofuran	10.067		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.517	57	5270	0.219	ppbV #	47
48) 1,1,1-trichloroethane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172310.D
Acq On : 17 Jun 2018 1:35 AM
Operator : AIRLAB17:MB
Sample : L1821916-03,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 21:33:06 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180616T\r172296.D
Sub List : TO15-NY - .

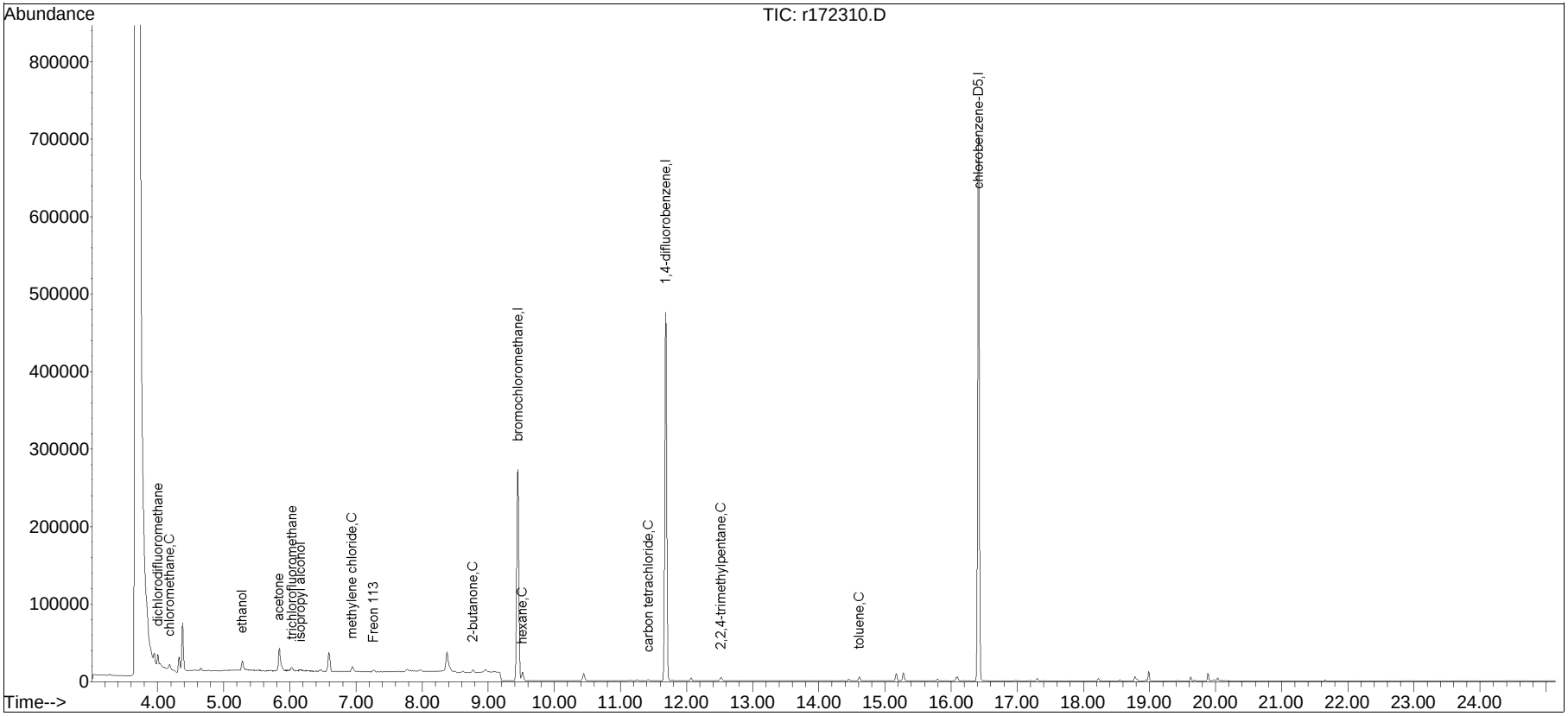
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) benzene	11.253		0	N.D.		
52) carbon tetrachloride	11.427	117	1384	0.071	ppbV #	90
53) cyclohexane	0.000		0	N.D.	d	
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
59) trichloroethene	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.520	57	4272	0.054	ppbV #	80
62) heptane	12.840		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	14.617	91	3202	0.060	ppbV	98
72) 2-hexanone	14.942		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
78) tetrachloroethene	15.800		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.817		0	N.D.		
83) m+p-xylene	16.967		0	N.D.		
84) bromoform	0.000		0	N.D.		
85) styrene	0.000		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	17.392		0	N.D.		
96) 4-ethyl toluene	0.000		0	N.D.		
97) 1,3,5-trimethylbenzene	0.000		0	N.D.		
99) 1,2,4-trimethylbenzene	18.858		0	N.D.		
101) Benzyl Chloride	18.808		0	N.D.		
102) 1,3-dichlorobenzene	0.000		0	N.D.		
103) 1,4-dichlorobenzene	0.000		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

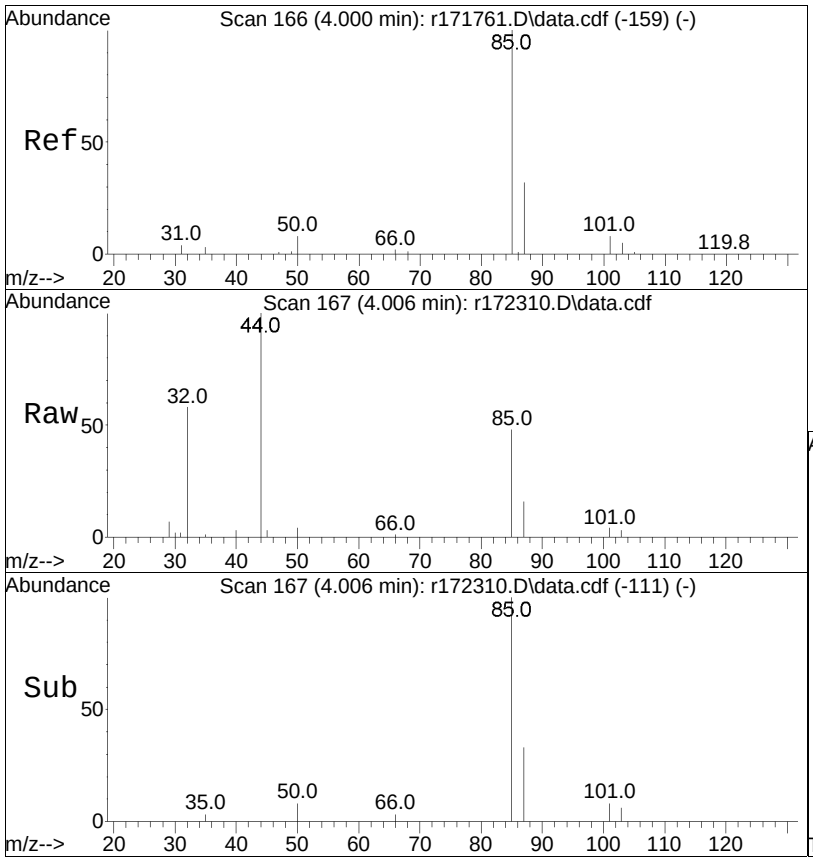
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY - .s\Data\Airlab17\2018\180616T\r172296.D

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172310.D
Acq On : 17 Jun 2018 1:35 AM
Operator : AIRLAB17:MB
Sample : L1821916-03,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 21:33:06 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

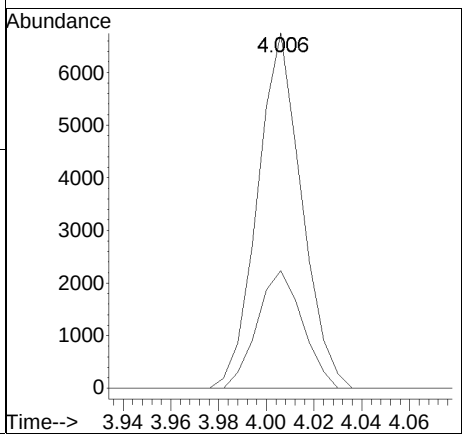


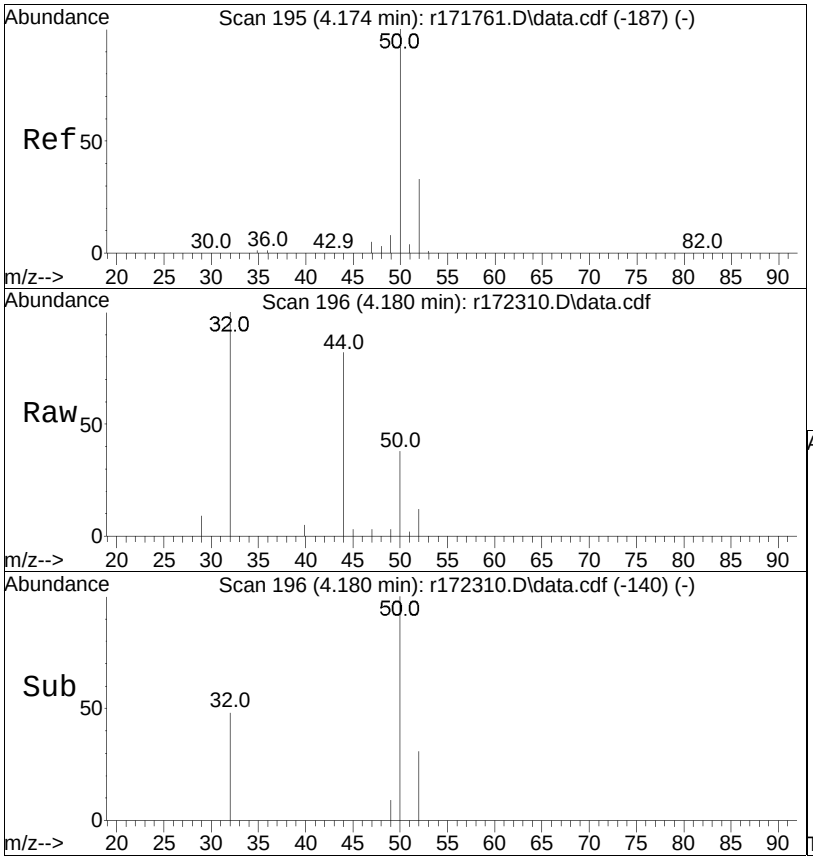


#5
dichlorodifluoromethane
Concen: 0.44 ppbV
RT: 4.006 min Scan# 167
Delta R.T. 0.006 min
Lab File: r172310.D
Acq: 17 Jun 2018 1:35 AM

Tgt Ion: 85 Resp: 8683

Ion	Ratio	Lower	Upper
85	100		
87	33.2	26.0	39.0

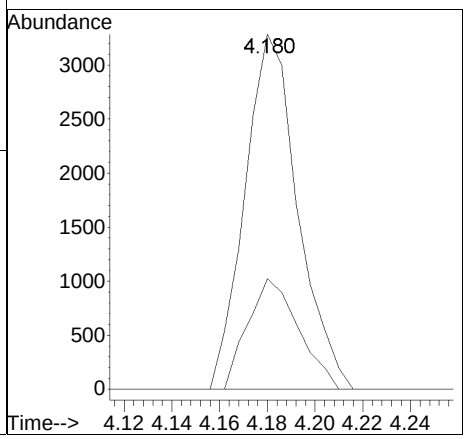


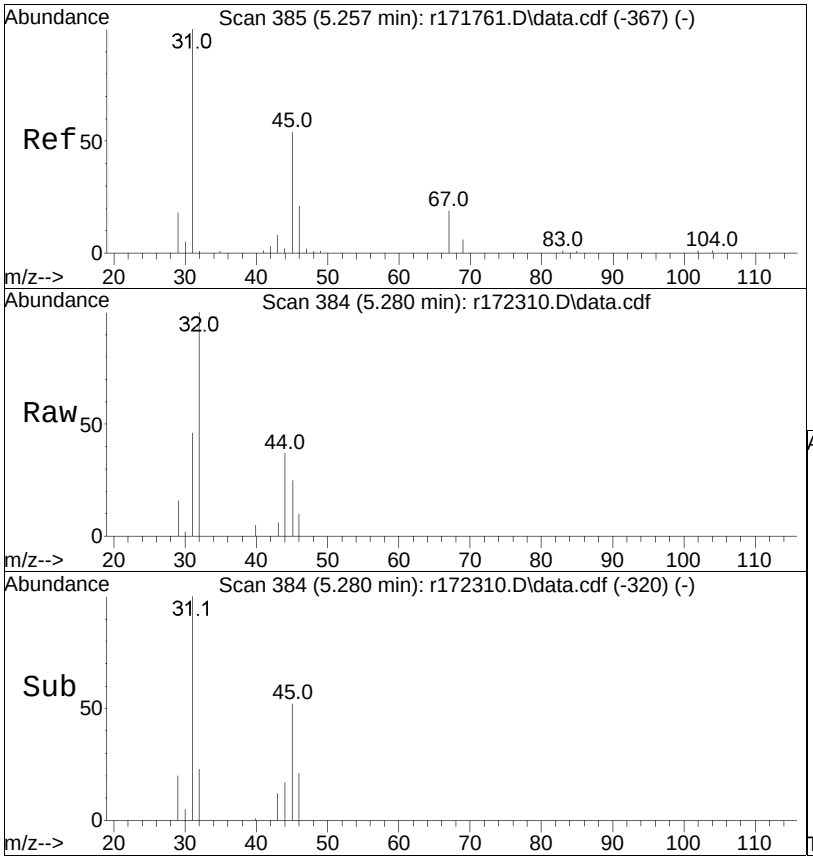


#6
chloromethane
Concen: 0.49 ppbV
RT: 4.180 min Scan# 196
Delta R.T. 0.006 min
Lab File: r172310.D
Acq: 17 Jun 2018 1:35 AM

Tgt Ion: 50 Resp: 5069

Ion	Ratio	Lower	Upper
50	100		
52	31.1	26.6	39.8

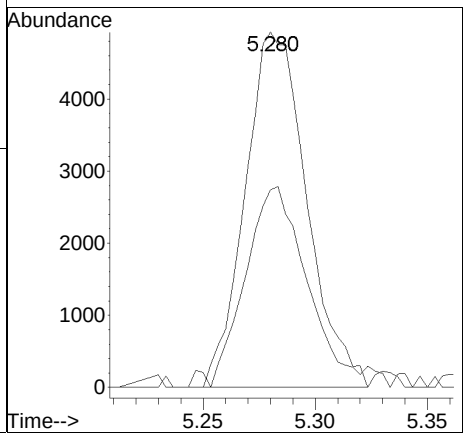


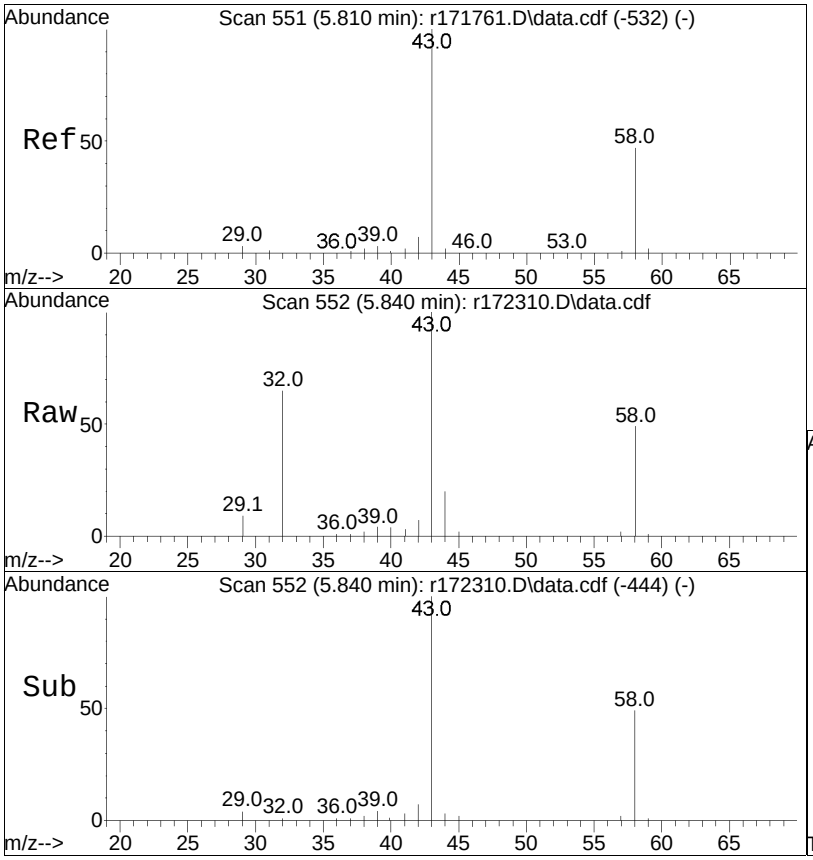


#15
ethanol
Concen: 1.29 ppbV
RT: 5.280 min Scan# 384
Delta R.T. 0.023 min
Lab File: r172310.D
Acq: 17 Jun 2018 1:35 AM

Tgt Ion: 31 Resp: 9420

Ion	Ratio	Lower	Upper
31	100		
45	55.6	42.9	64.3

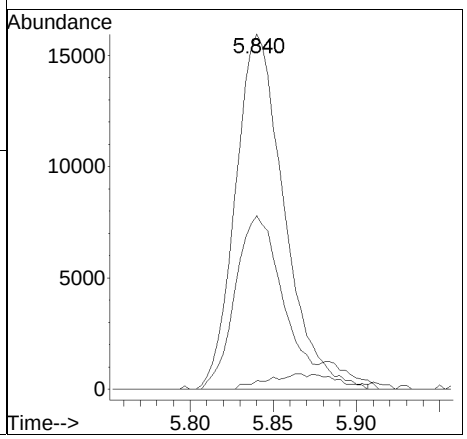


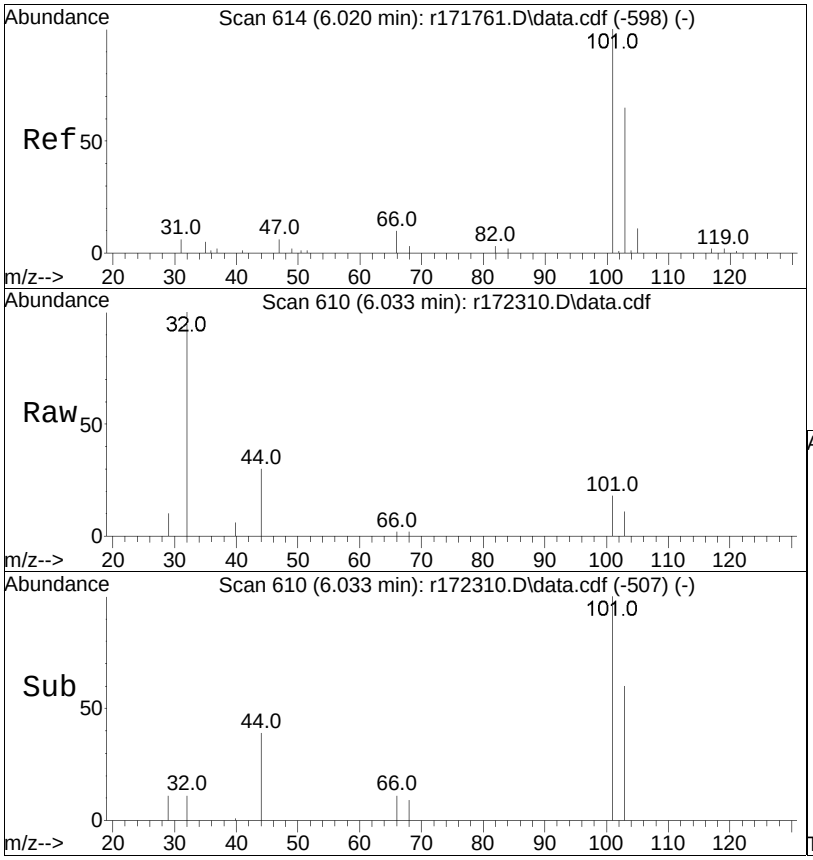


#19
acetone
Concen: 2.38 ppbV
RT: 5.840 min Scan# 552
Delta R.T. 0.030 min
Lab File: r172310.D
Acq: 17 Jun 2018 1:35 AM

Tgt Ion: 43 Resp: 32529

Ion	Ratio	Lower	Upper
43	100		
58	48.9	37.4	56.0
57	2.4	0.9	1.3#

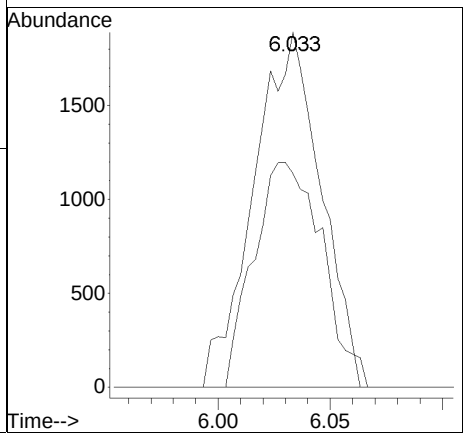


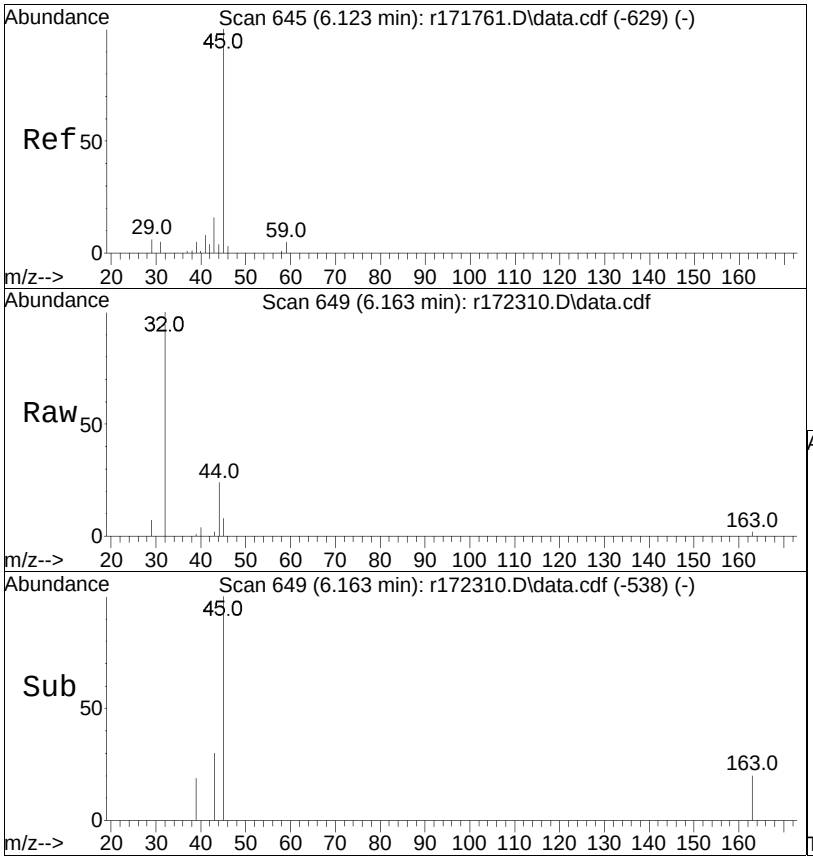


#21
trichlorofluoromethane
Concen: 0.22 ppbV
RT: 6.033 min Scan# 610
Delta R.T. 0.013 min
Lab File: r172310.D
Acq: 17 Jun 2018 1:35 AM

Tgt Ion:101 Resp: 3932

Ion	Ratio	Lower	Upper
101	100		
103	60.2	51.9	77.9

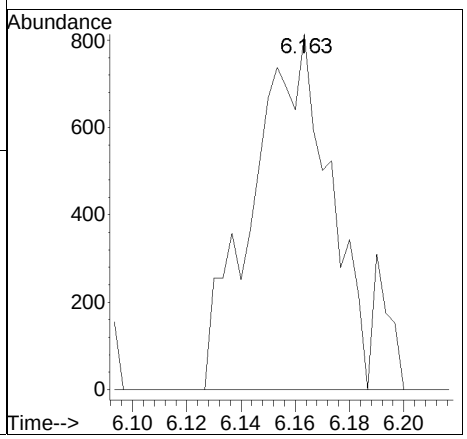


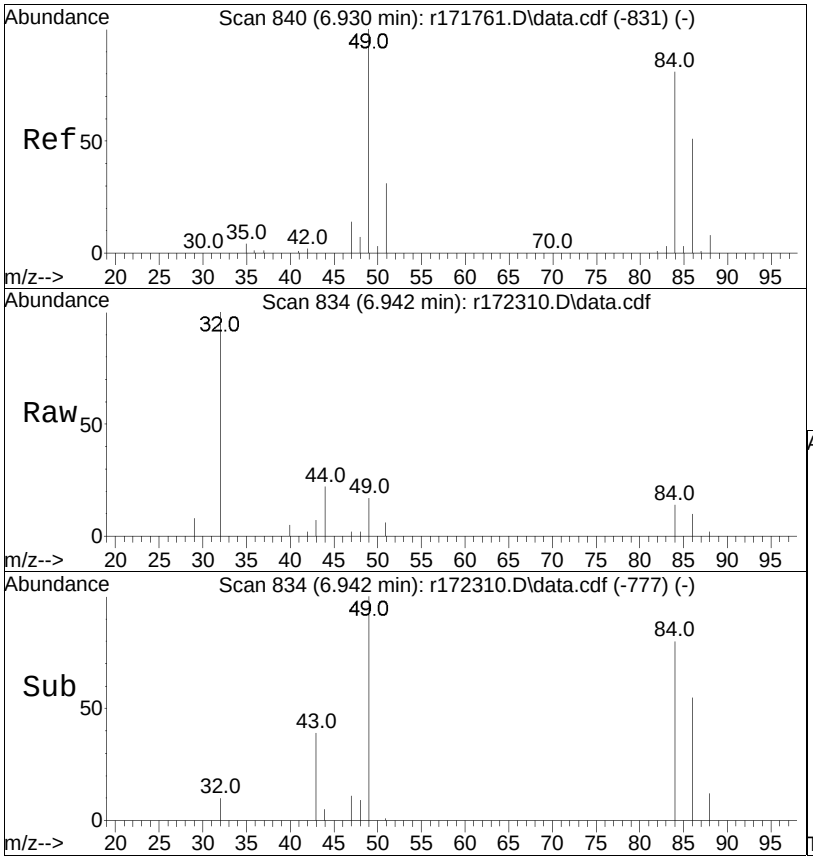


#22
isopropyl alcohol
Concen: 0.10 ppbV
RT: 6.163 min Scan# 649
Delta R.T. 0.040 min
Lab File: r172310.D
Acq: 17 Jun 2018 1:35 AM

Tgt Ion: 45 Resp: 1601

Ion	Ratio	Lower	Upper
45	100		
59	0.0	3.9	5.9#

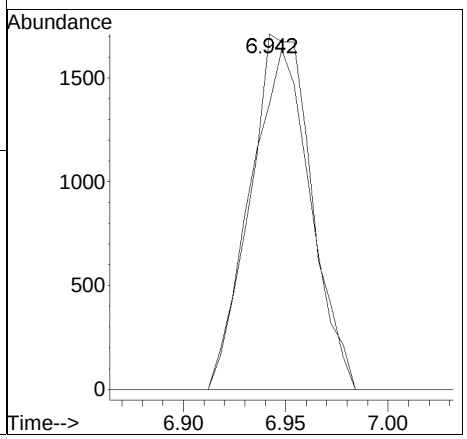


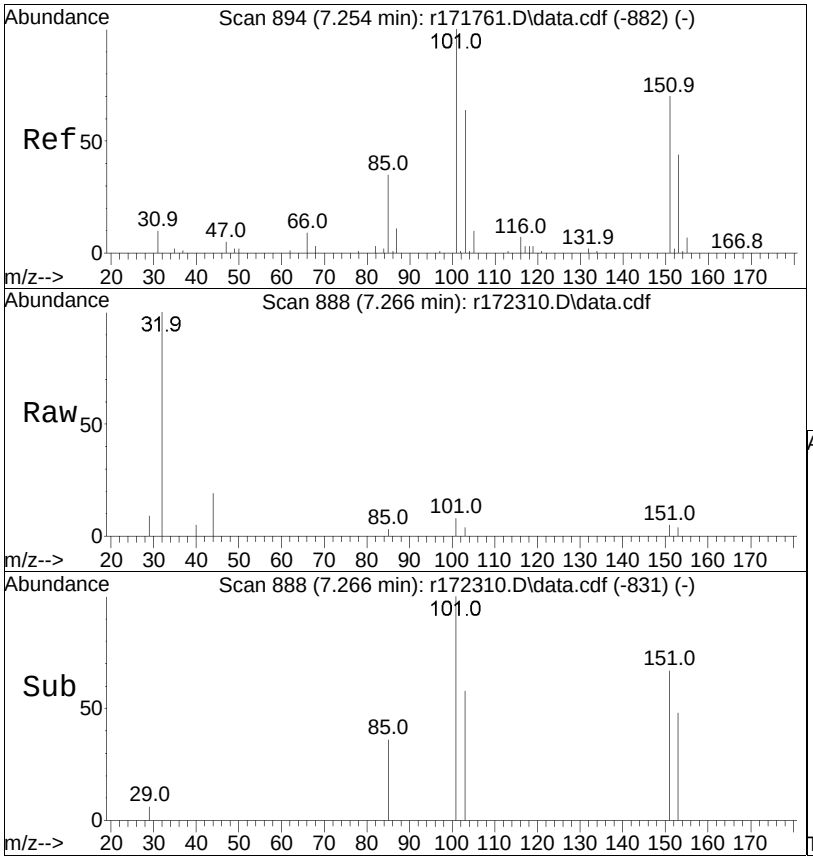


#28
methylene chloride
Concen: 0.29 ppbV
RT: 6.942 min Scan# 834
Delta R.T. 0.012 min
Lab File: r172310.D
Acq: 17 Jun 2018 1:35 AM

Tgt Ion: 49 Resp: 3584

Ion	Ratio	Lower	Upper
49	100		
84	80.4	64.8	97.2

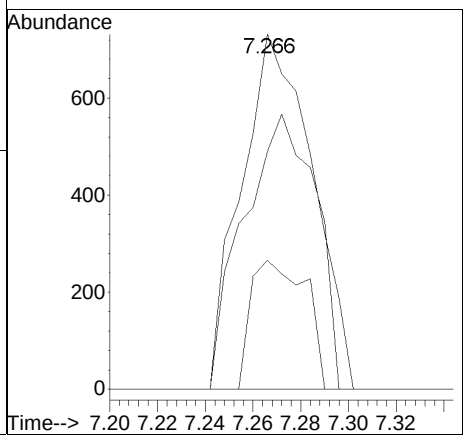


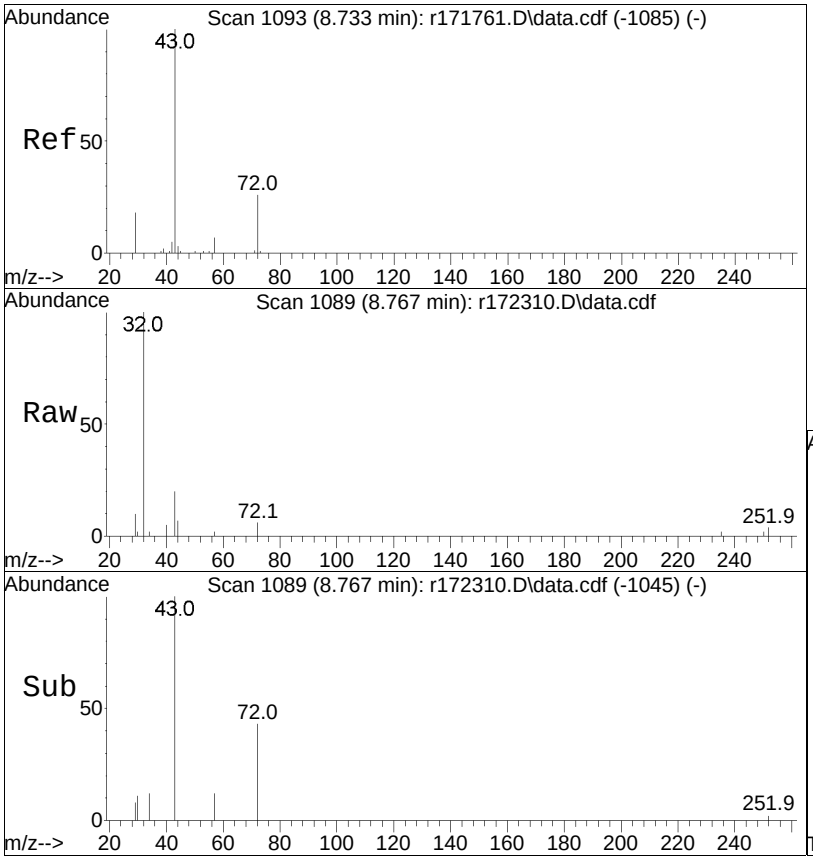


#31
Freon 113
Concen: 0.07 ppbV
RT: 7.266 min Scan# 888
Delta R.T. 0.012 min
Lab File: r172310.D
Acq: 17 Jun 2018 1:35 AM

Tgt Ion:101 Resp: 1516

Ion	Ratio	Lower	Upper
101	100		
85	36.3	28.3	42.5
151	66.9	56.0	84.0

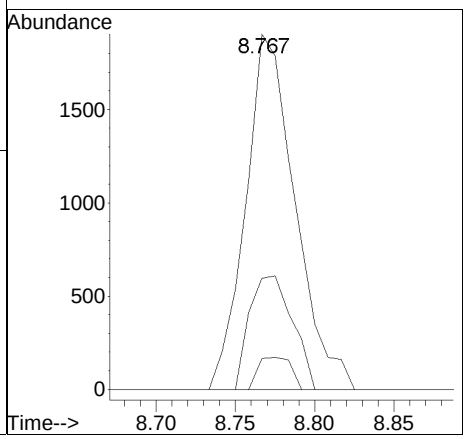


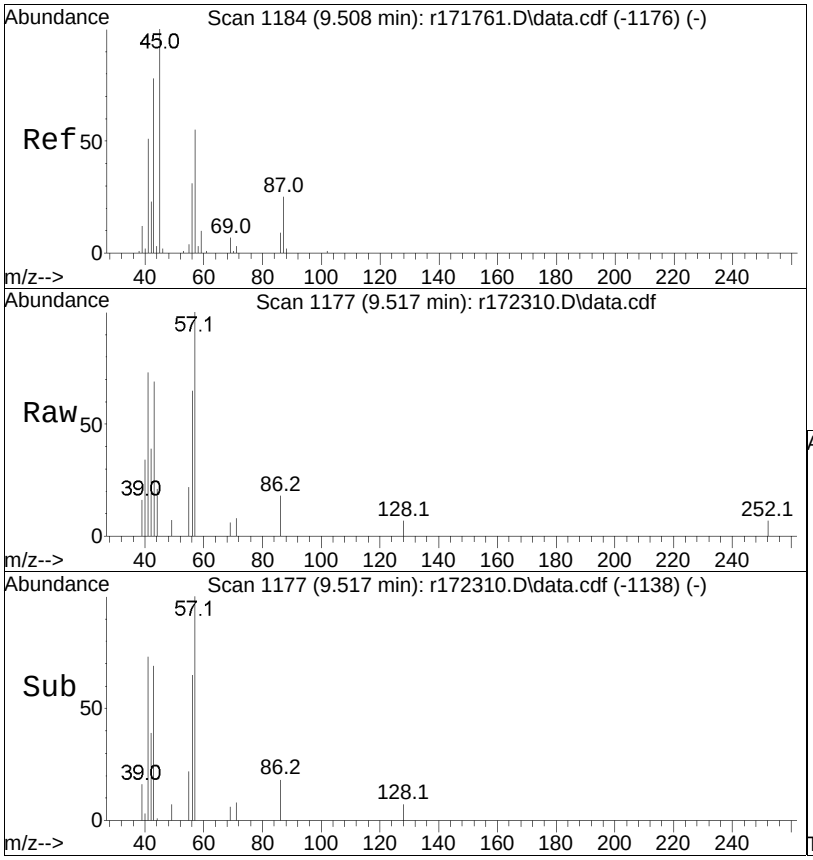


#36
2-butanone
Concen: 0.15 ppbV
RT: 8.767 min Scan# 1089
Delta R.T. 0.033 min
Lab File: r172310.D
Acq: 17 Jun 2018 1:35 AM

Tgt Ion: 43 Resp: 4133

Ion	Ratio	Lower	Upper
43	100		
72	31.3	21.1	31.7
57	8.7	5.6	8.4#

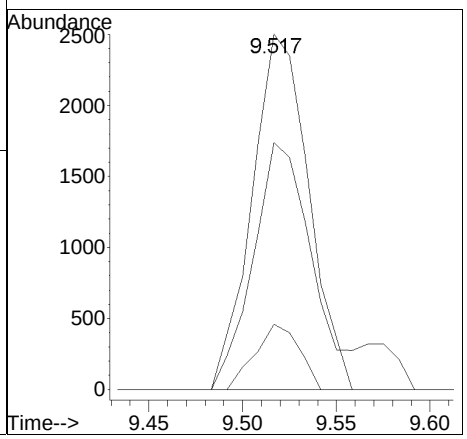


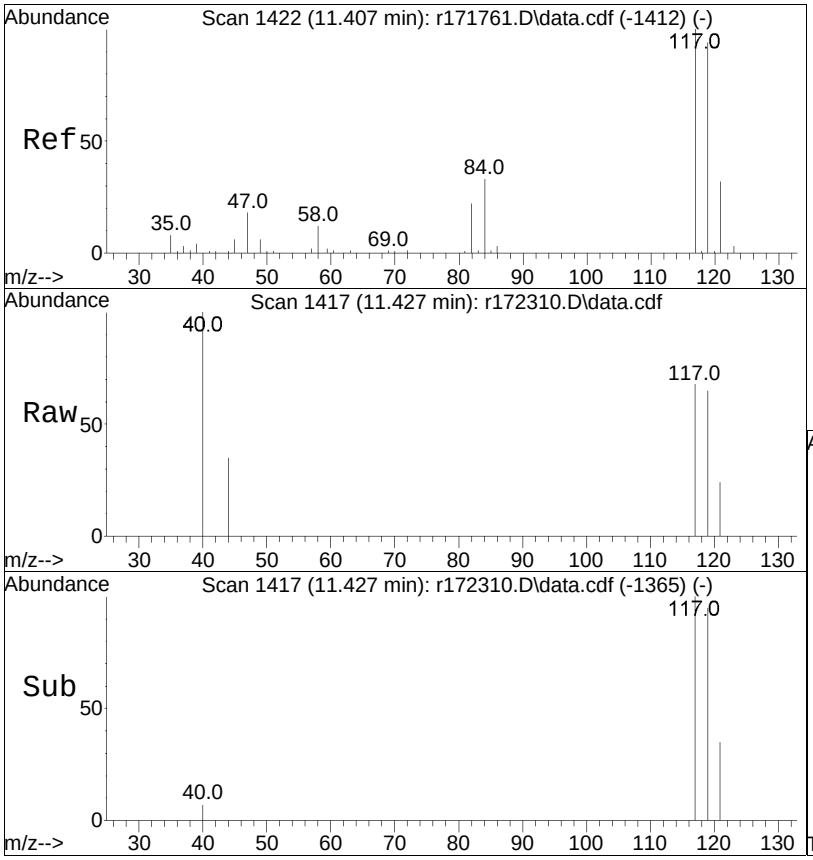


#44
hexane
Concen: 0.22 ppbV
RT: 9.517 min Scan# 1177
Delta R.T. 0.008 min
Lab File: r172310.D
Acq: 17 Jun 2018 1:35 AM

Tgt Ion: 57 Resp: 5270

Ion	Ratio	Lower	Upper
57	100		
43	69.5	113.3	169.9#
86	18.3	13.6	20.4

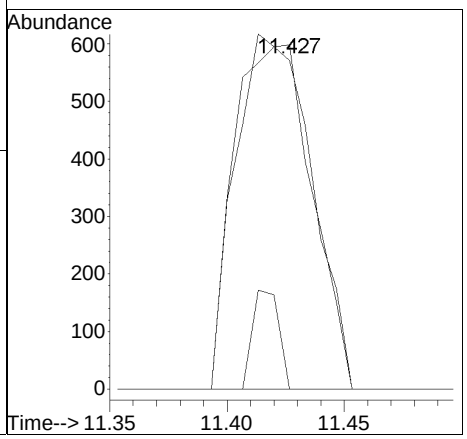


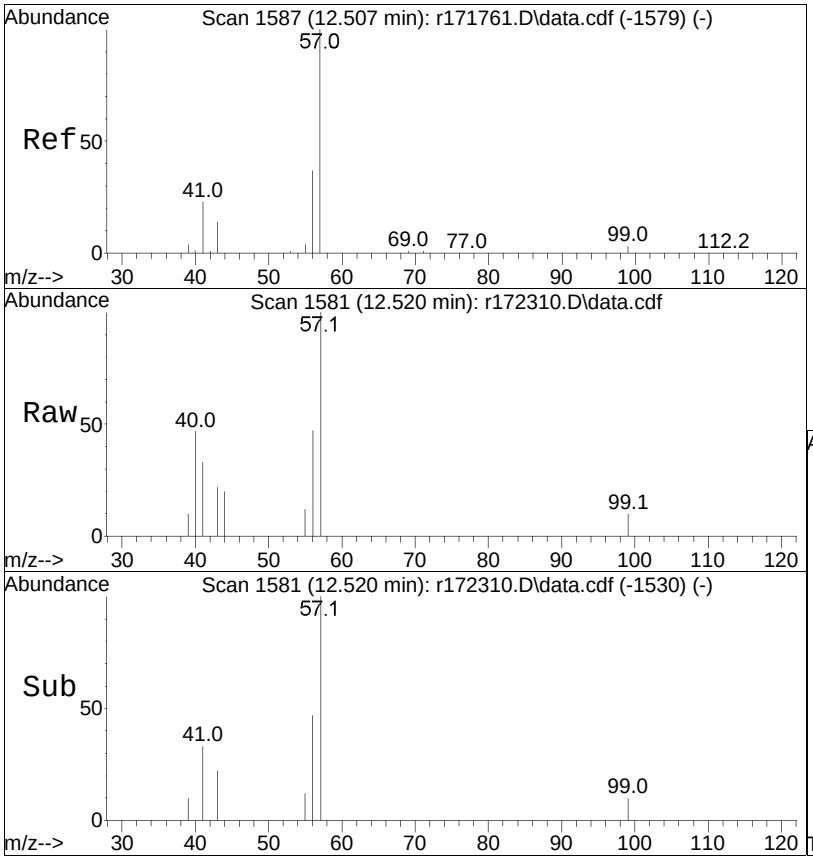


#52
carbon tetrachloride
Concen: 0.07 ppbV
RT: 11.427 min Scan# 1417
Delta R.T. 0.020 min
Lab File: r172310.D
Acq: 17 Jun 2018 1:35 AM

Tgt Ion:117 Resp: 1384

Ion	Ratio	Lower	Upper
117	100		
119	95.5	75.0	112.4
82	0.0	17.2	25.8#

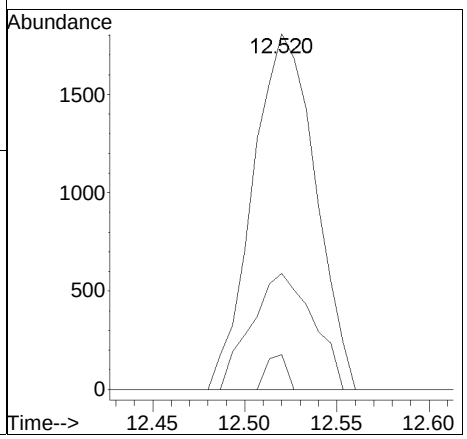


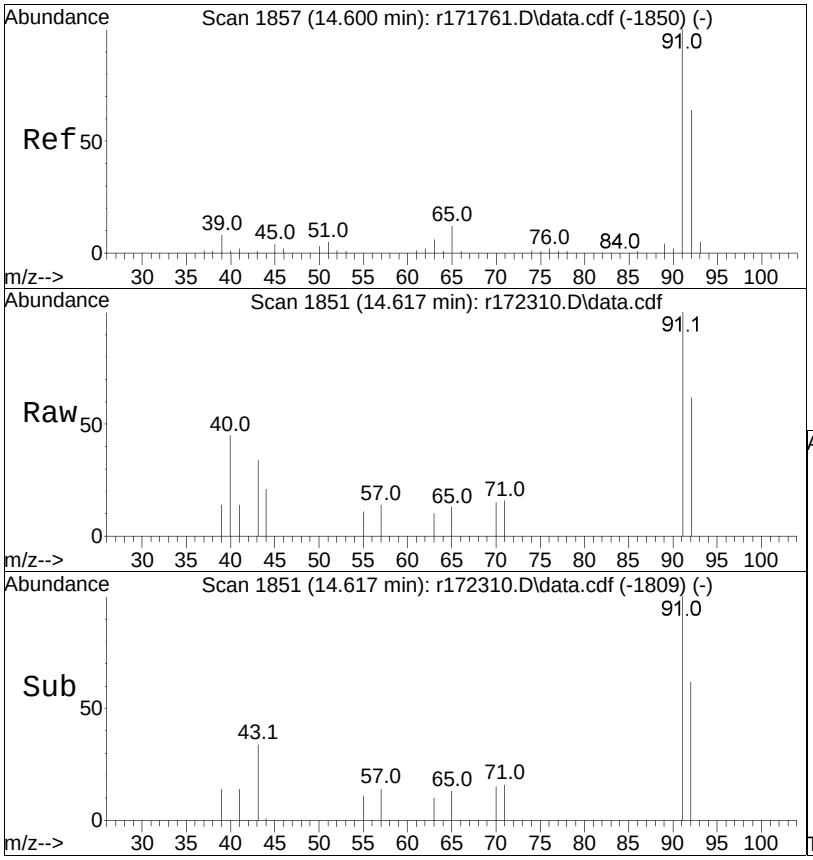


#60
2,2,4-trimethylpentane
Concen: 0.05 ppbV
RT: 12.520 min Scan# 1581
Delta R.T. 0.013 min
Lab File: r172310.D
Acq: 17 Jun 2018 1:35 AM

Tgt Ion: 57 Resp: 4272

Ion	Ratio	Lower	Upper
57	100		
99	9.8	4.6	6.8#
41	32.7	17.7	26.5#

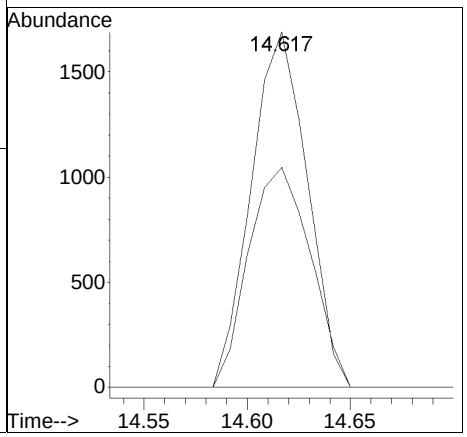




#68
toluene
Concen: 0.06 ppbV
RT: 14.617 min Scan# 1851
Delta R.T. 0.017 min
Lab File: r172310.D
Acq: 17 Jun 2018 1:35 AM

Tgt Ion: 91 Resp: 3202

Ion	Ratio	Lower	Upper
91	100		
92	61.9	51.0	76.6



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\Airlab17\	QMethod	: TALL180521.M
Data File	: r172310.D	Operator	: AIRLAB17:MB
Date Inj'd	: 6/17/2018 1:35 AM	Instrument	:
Sample	: L1821916-03,3,250,250	Quant Date	: 6/17/2018 7:39 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172311.D
Acq On : 17 Jun 2018 2:13 AM
Operator : AIRLAB17:MB
Sample : L1821916-01,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 21:34:48 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180616T\r172296.D
Sub List : TO15-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.450	49	171345	10.000	ppbV	0.02
Standard Area = 188951			Recovery =		90.68%	
43) 1,4-difluorobenzene	11.687	114	570584	10.000	ppbV	0.02
Standard Area = 604388			Recovery =		94.41%	
67) chlorobenzene-D5	16.417	54	74973	10.000	ppbV	0.02
Standard Area = 80538			Recovery =		93.09%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	3.994	85	10177	0.479	ppbV	100
6) chloromethane	4.168	50	3106	0.282	ppbV	96
7) Freon-114	4.294		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.534		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.287	31	4469	0.570	ppbV #	78
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.840	43	53298	3.625	ppbV #	99
21) trichlorofluoromethane	6.023	101	4166	0.220	ppbV	96
22) isopropyl alcohol	6.163	45	1407M3	0.079	ppbV	
26) 1,1-dichloroethene	0.000		0	N.D.	d	
27) tertiary butyl alcohol	6.864	59	4083	0.249	ppbV #	82
28) methylene chloride	6.942		0	N.D.		
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.218	76	8184	0.219	ppbV #	1
31) Freon 113	7.272	101	1750	0.074	ppbV	95
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.375		0	N.D.		
36) 2-butanone	8.767	43	7398	0.244	ppbV #	89
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	9.558		0	N.D.		
39) chloroform	9.608	83	50045	2.115	ppbV	97
40) Tetrahydrofuran	10.067		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.517	57	5736	0.209	ppbV #	40
48) 1,1,1-trichloroethane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172311.D
Acq On : 17 Jun 2018 2:13 AM
Operator : AIRLAB17:MB
Sample : L1821916-01,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 21:34:48 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180616T\r172296.D
Sub List : TO15-NY - .

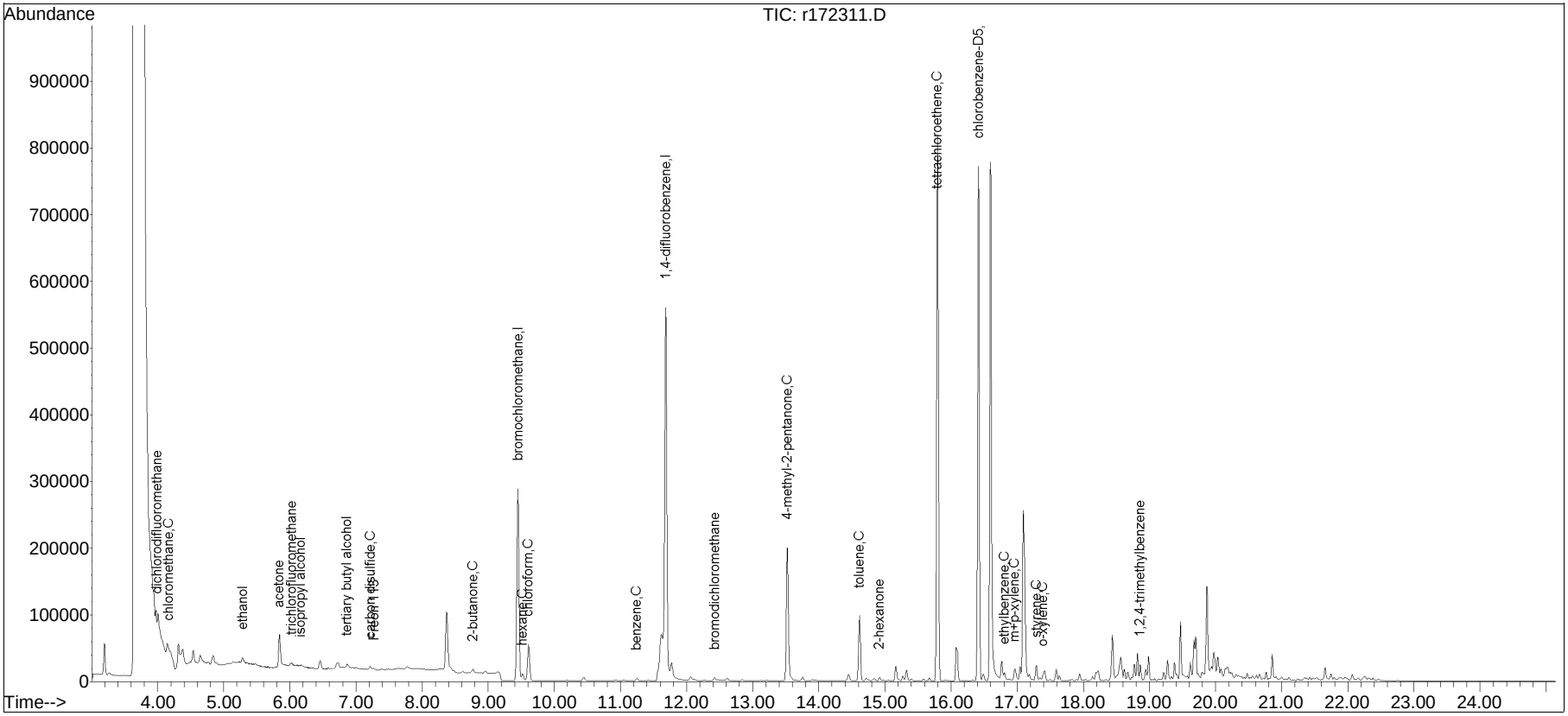
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) benzene	11.247	78	2879	0.050	ppbV	97
52) carbon tetrachloride	11.427		0	N.D.		
53) cyclohexane	11.567		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	12.427	83	3487	0.120	ppbV	96
58) 1,4-dioxane	0.000		0	N.D.		
59) trichloroethene	12.473		0	N.D.		
60) 2,2,4-trimethylpentane	12.527		0	N.D.		
62) heptane	12.840		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.525	43	171327	4.472	ppbV	96
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.617	91	71123	1.204	ppbV	100
72) 2-hexanone	14.917	43	4794M4	0.148	ppbV	
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
78) tetrachloroethene	15.792	166	277556	10.985	ppbV	98
80) chlorobenzene	16.467		0	N.D.		
81) ethylbenzene	16.808	91	5055	0.071	ppbV	95
83) m+p-xylene	16.958	91	14047	0.238	ppbV	93
84) bromoform	0.000		0	N.D.		
85) styrene	17.292	104	2778	0.055	ppbV	94
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	17.392	91	5381	0.093	ppbV	95
96) 4-ethyl toluene	18.458		0	N.D.		
97) 1,3,5-trimethylbenzene	18.517		0	N.D.		
99) 1,2,4-trimethylbenzene	18.858	105	7138	0.107	ppbV #	59
101) Benzyl Chloride	18.983		0	N.D.		
102) 1,3-dichlorobenzene	0.000		0	N.D.		
103) 1,4-dichlorobenzene	0.000		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

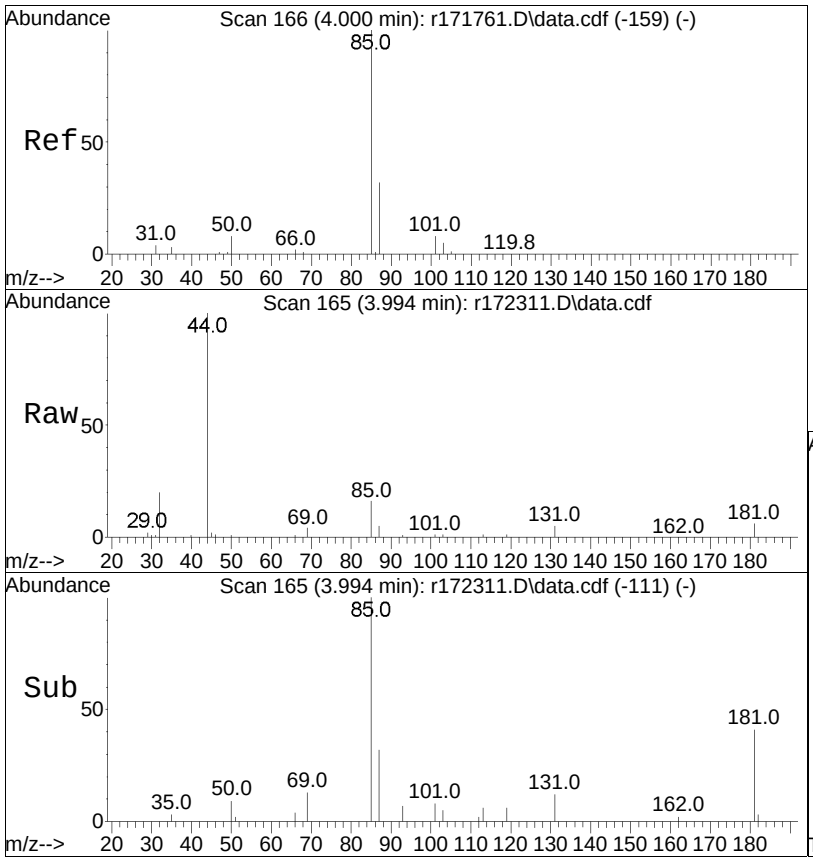
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY - .s\Data\Airlab17\2018\180616T\r172296.D

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172311.D
Acq On : 17 Jun 2018 2:13 AM
Operator : AIRLAB17:MB
Sample : L1821916-01,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 21:34:48 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

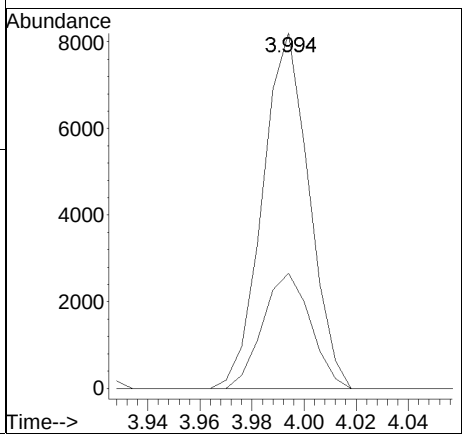


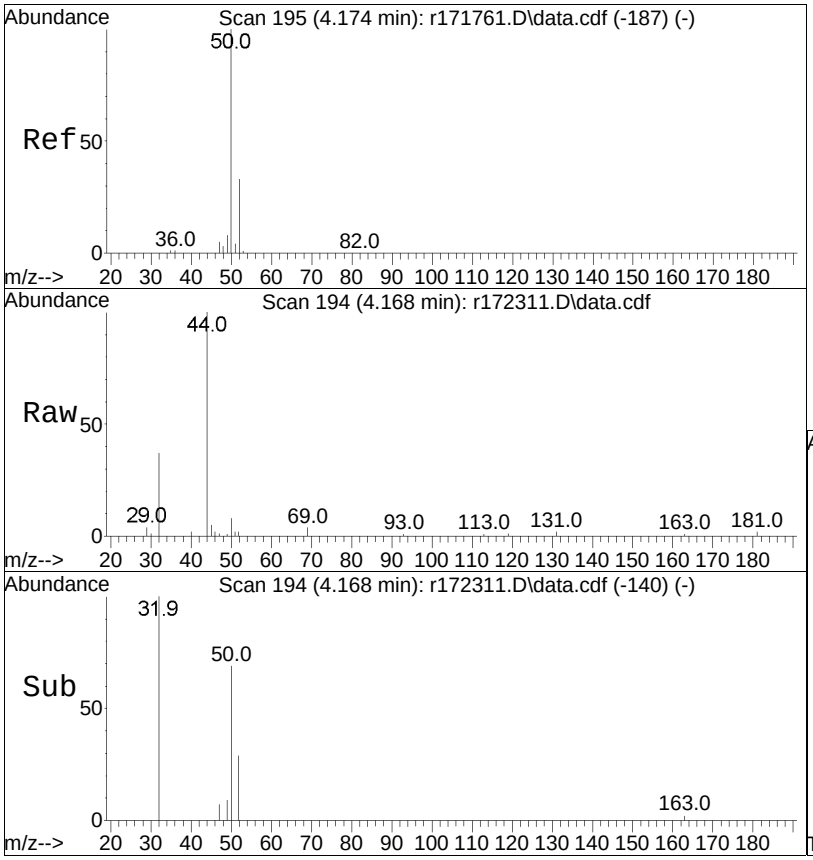


#5
dichlorodifluoromethane
Concen: 0.48 ppbV
RT: 3.994 min Scan# 165
Delta R.T. -0.006 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion: 85 Resp: 10177

Ion	Ratio	Lower	Upper
85	100		
87	32.4	26.0	39.0

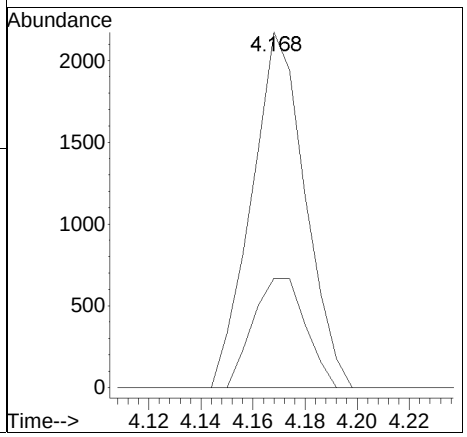


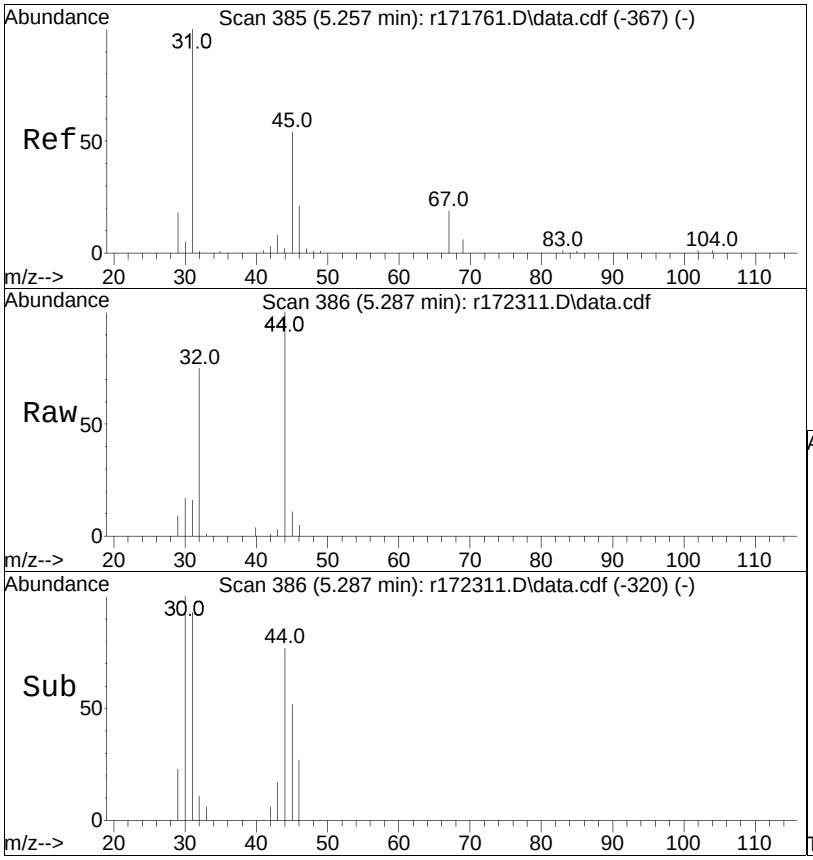


#6
chloromethane
Concen: 0.28 ppbV
RT: 4.168 min Scan# 194
Delta R.T. -0.006 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion: 50 Resp: 3106

Ion	Ratio	Lower	Upper
50	100		
52	30.7	26.6	39.8

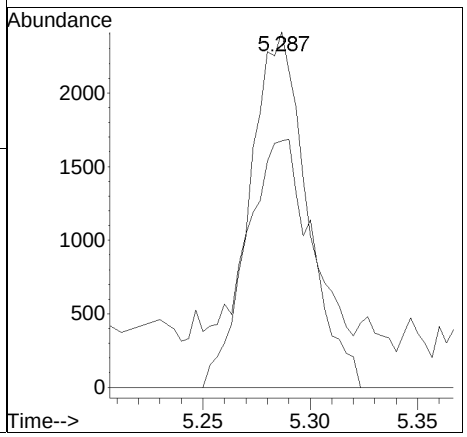


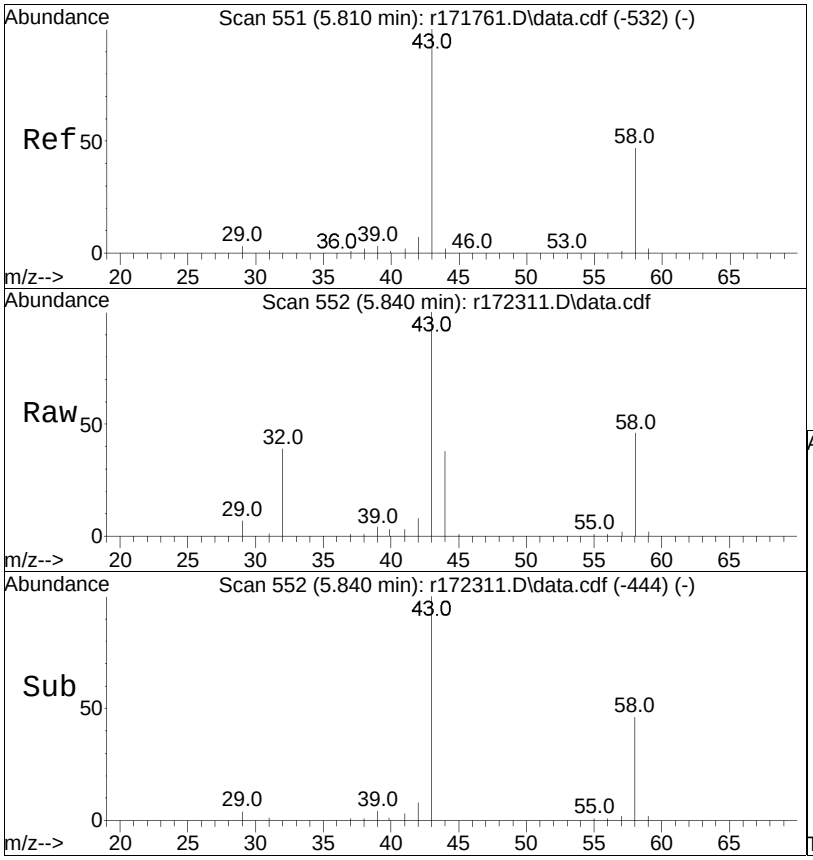


#15
ethanol
Concen: 0.57 ppbV
RT: 5.287 min Scan# 386
Delta R.T. 0.030 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion: 31 Resp: 4469

Ion	Ratio	Lower	Upper
31	100		
45	69.3	42.9	64.3#

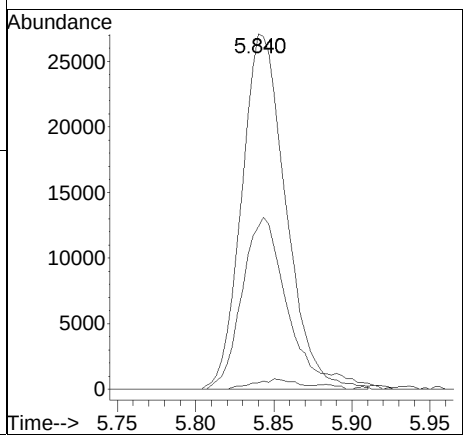


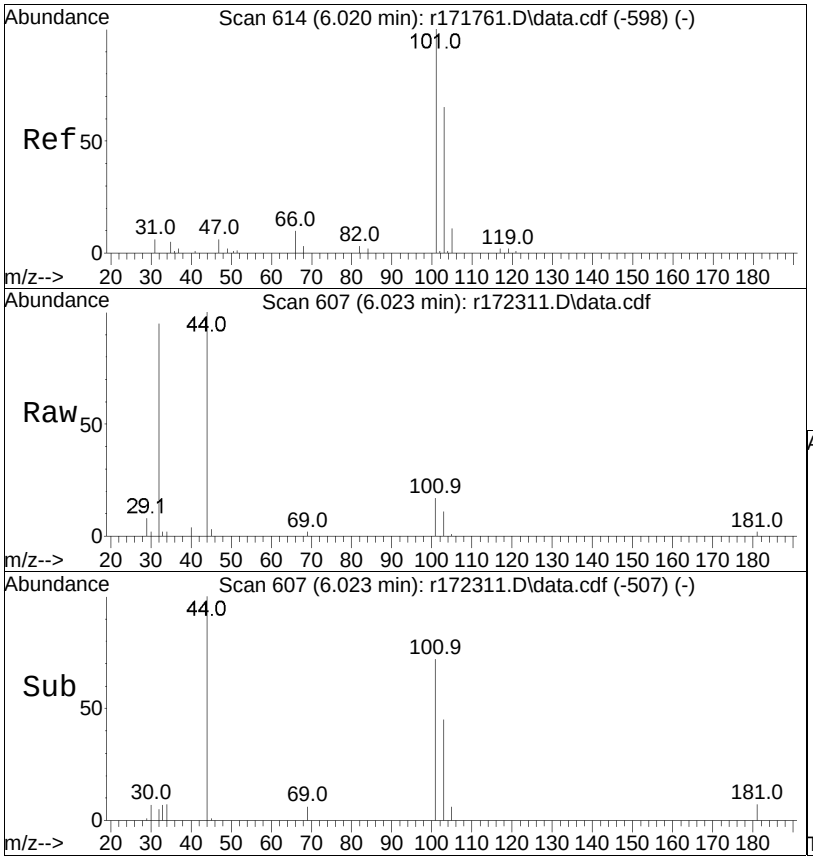


#19
acetone
Concen: 3.63 ppbV
RT: 5.840 min Scan# 552
Delta R.T. 0.030 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion: 43 Resp: 53298

Ion	Ratio	Lower	Upper
43	100		
58	45.7	37.4	56.0
57	1.9	0.9	1.3#

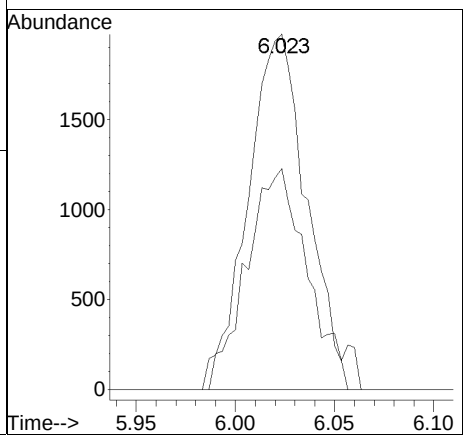


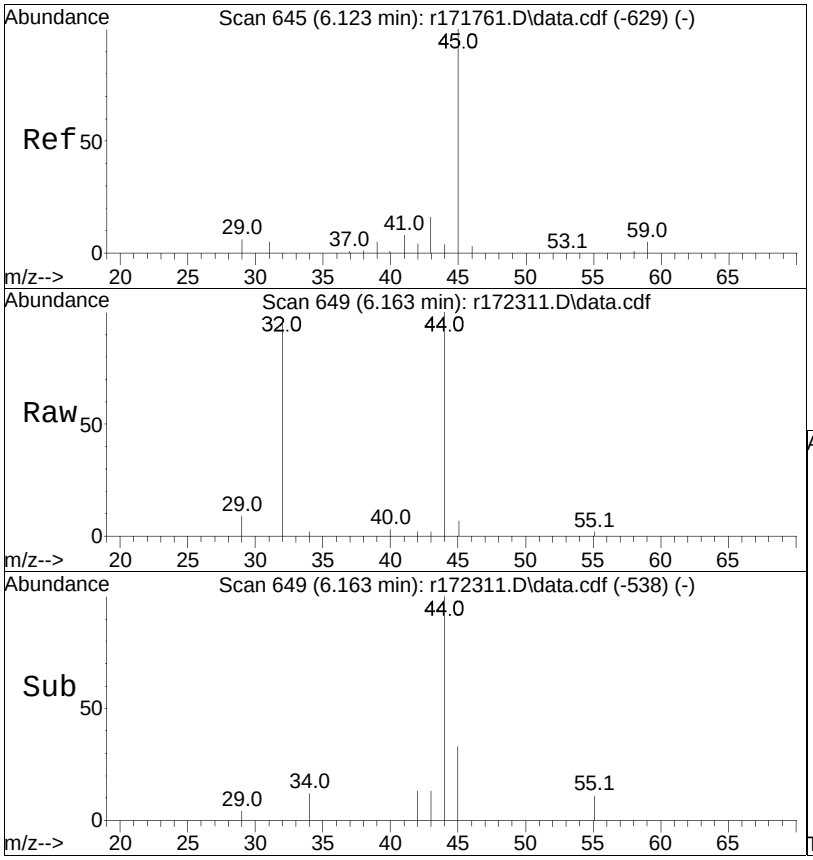


#21
trichlorofluoromethane
Concen: 0.22 ppbV
RT: 6.023 min Scan# 607
Delta R.T. 0.003 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion:101 Resp: 4166

Ion	Ratio	Lower	Upper
101	100		
103	62.1	51.9	77.9

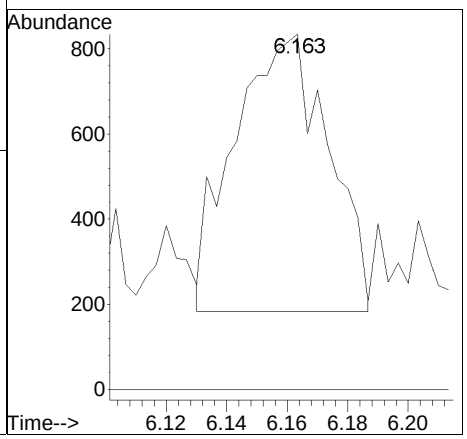


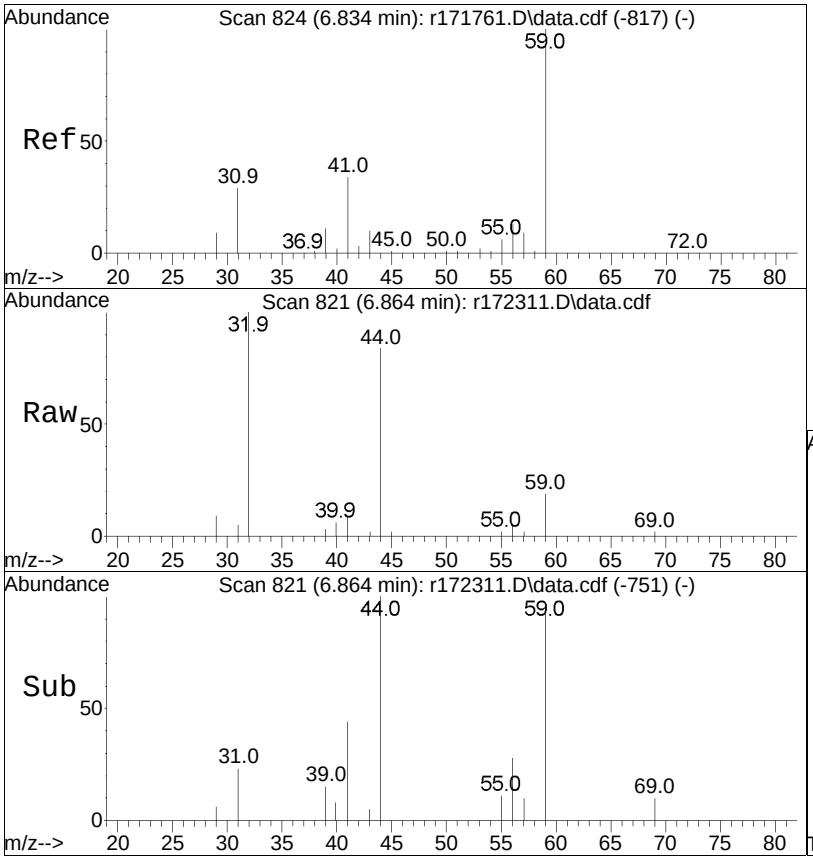


#22
isopropyl alcohol
Concen: 0.08 ppbV m
RT: 6.163 min Scan# 649
Delta R.T. 0.040 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion: 45 Resp: 1407

Ion	Ratio	Lower	Upper
45	100		
59	0.0	3.9	5.9#

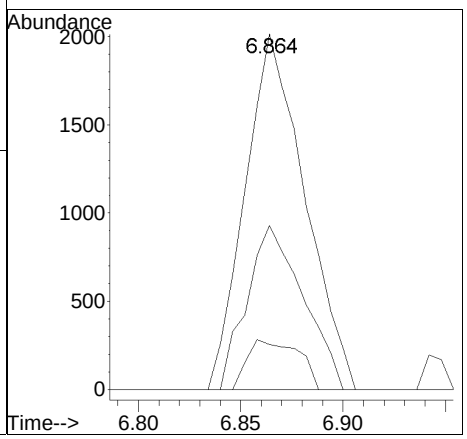


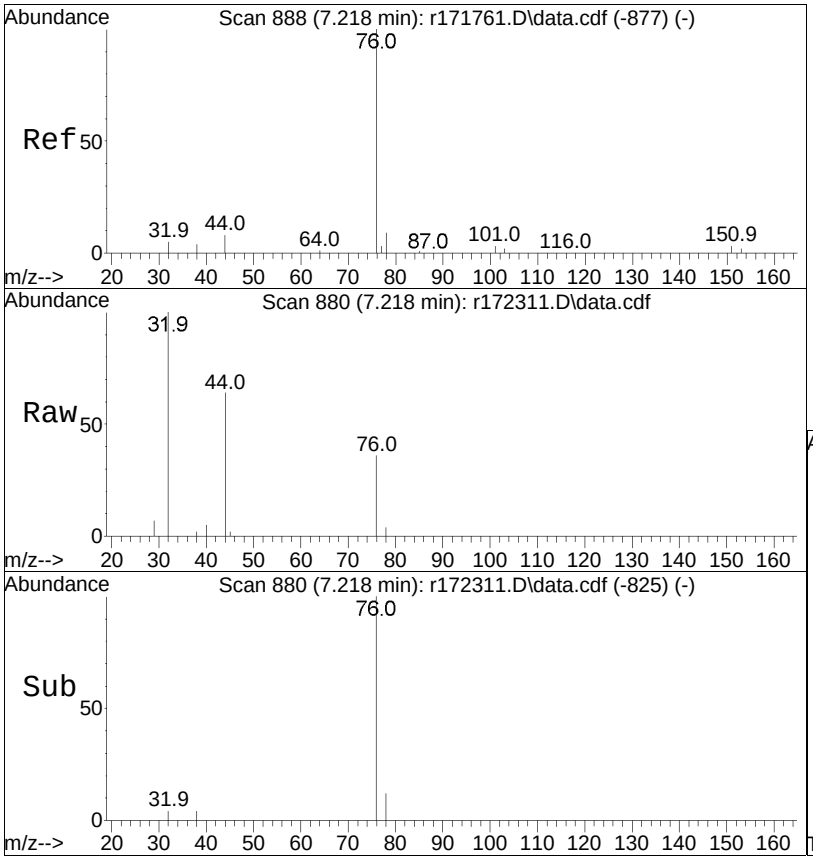


#27
tertiary butyl alcohol
Concen: 0.25 ppbV
RT: 6.864 min Scan# 821
Delta R.T. 0.030 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion: 59 Resp: 4083

Ion	Ratio	Lower	Upper
59	100		
41	46.2	27.1	40.7#
43	12.7	8.0	12.0#

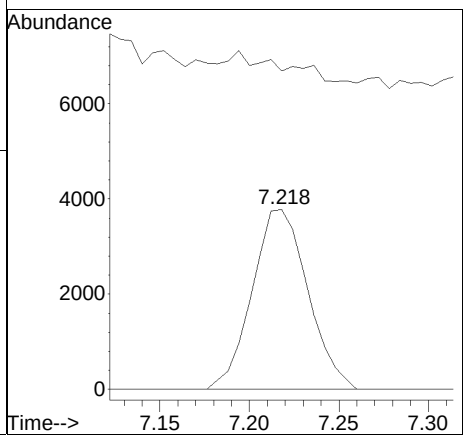


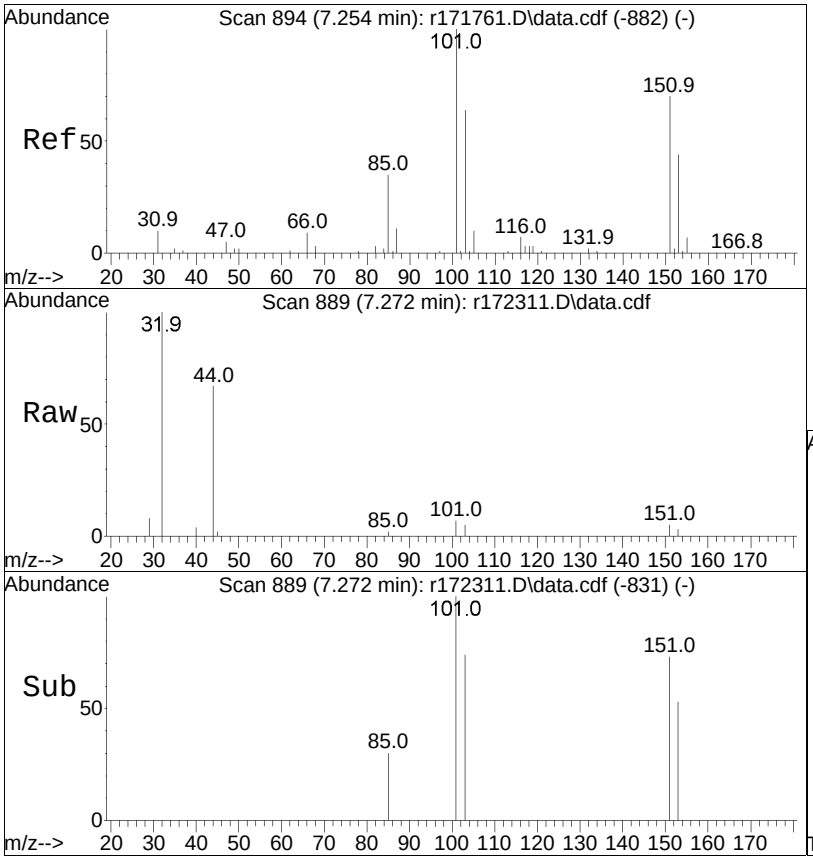


#30
carbon disulfide
Concen: 0.22 ppbV
RT: 7.218 min Scan# 880
Delta R.T. 0.000 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion: 76 Resp: 8184

Ion	Ratio	Lower	Upper
76	100		
44	177.1	7.5	11.3#

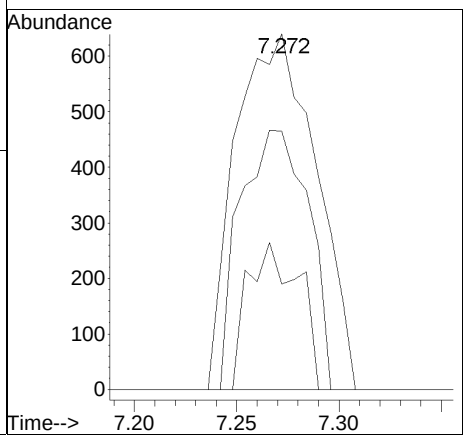


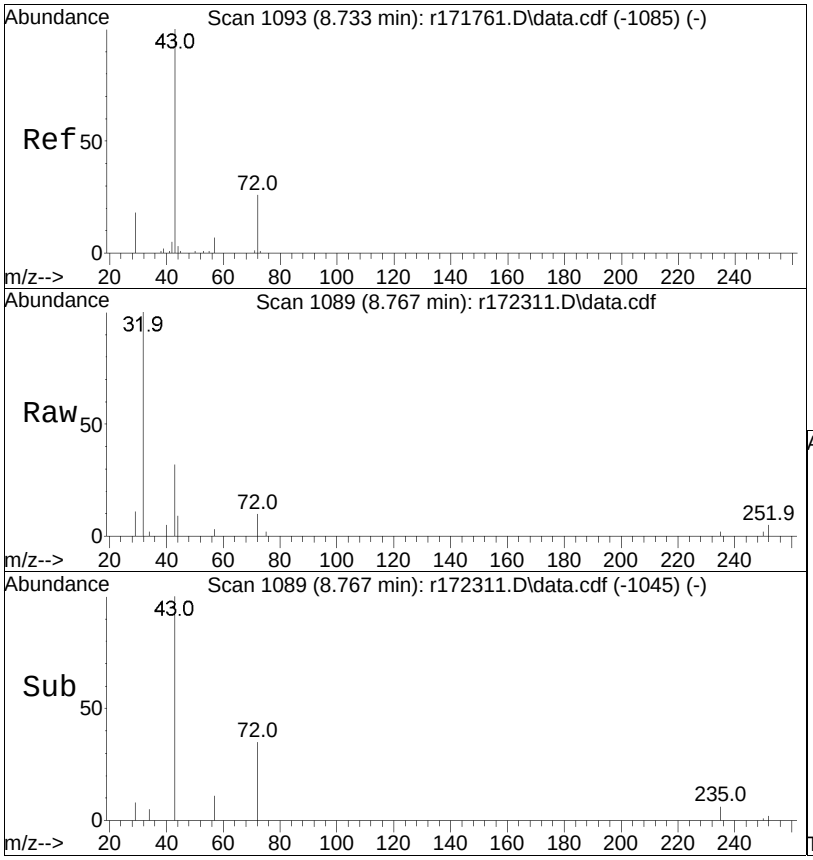


#31
Freon 113
Concen: 0.07 ppbV
RT: 7.272 min Scan# 889
Delta R.T. 0.018 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion:101 Resp: 1750

Ion	Ratio	Lower	Upper
101	100		
85	29.7	28.3	42.5
151	72.7	56.0	84.0

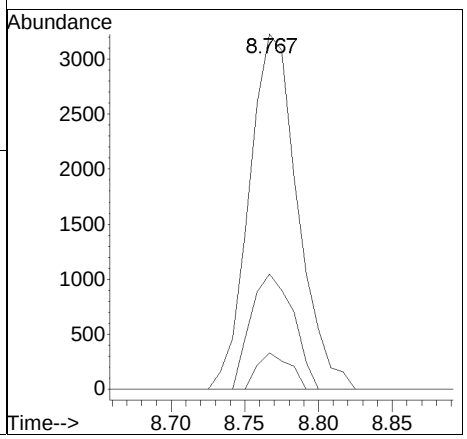


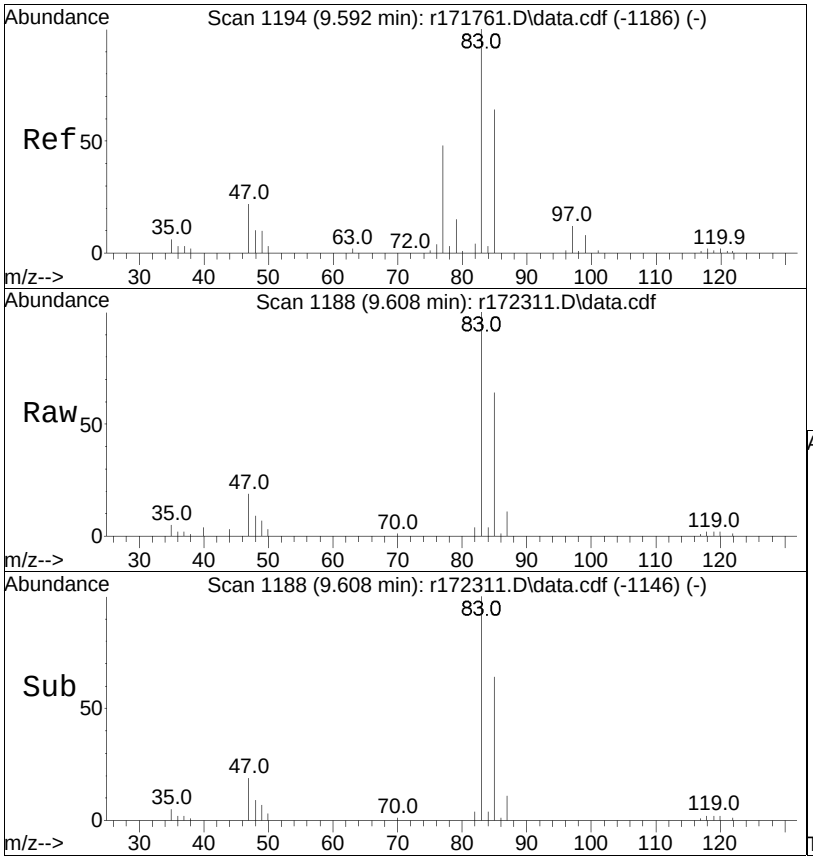


#36
2-butanone
Concen: 0.24 ppbV
RT: 8.767 min Scan# 1089
Delta R.T. 0.033 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion: 43 Resp: 7398

Ion	Ratio	Lower	Upper
43	100		
72	32.5	21.1	31.7#
57	10.3	5.6	8.4#

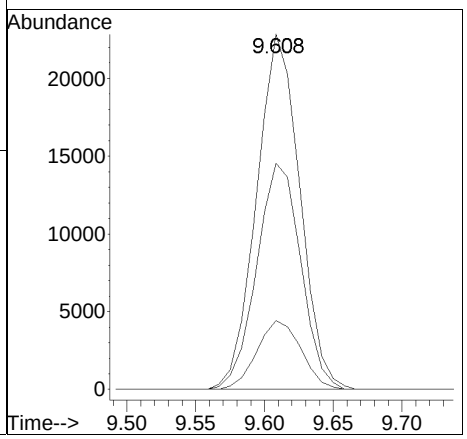


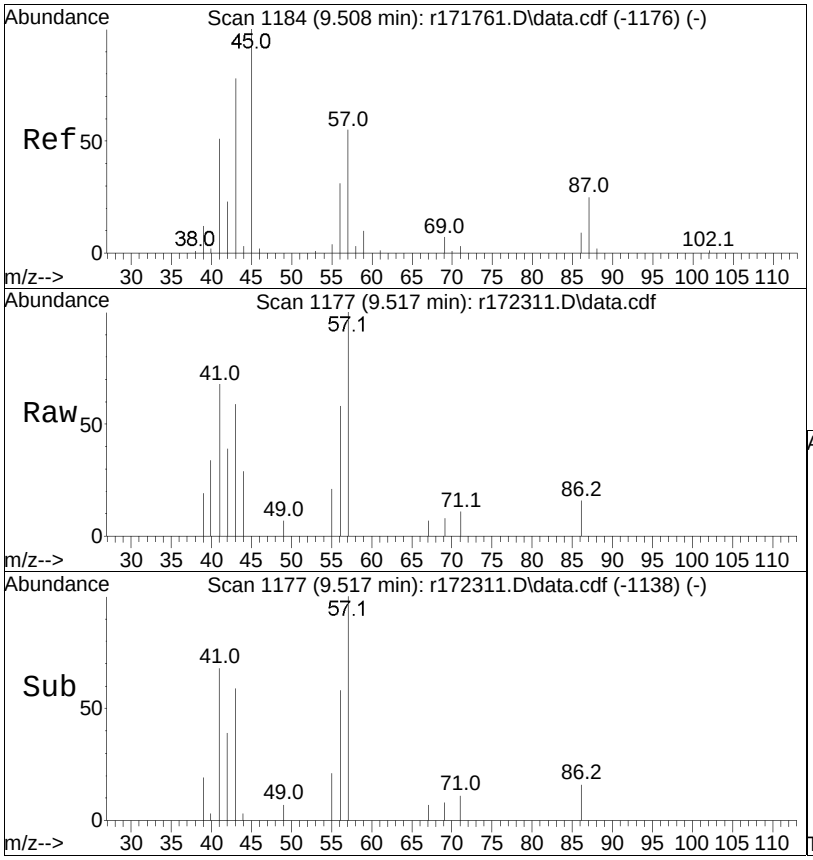


#39
chloroform
Concen: 2.12 ppbV
RT: 9.608 min Scan# 1188
Delta R.T. 0.017 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion: 83 Resp: 50045

Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.8	77.6
47	19.4	18.1	27.1

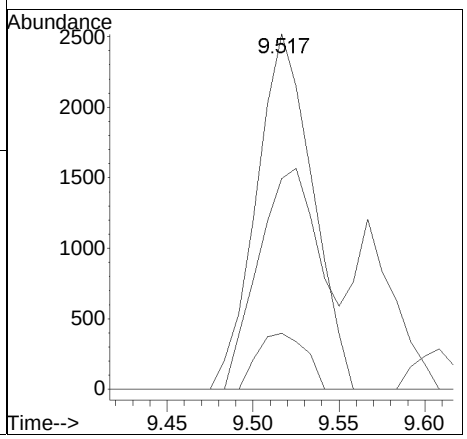


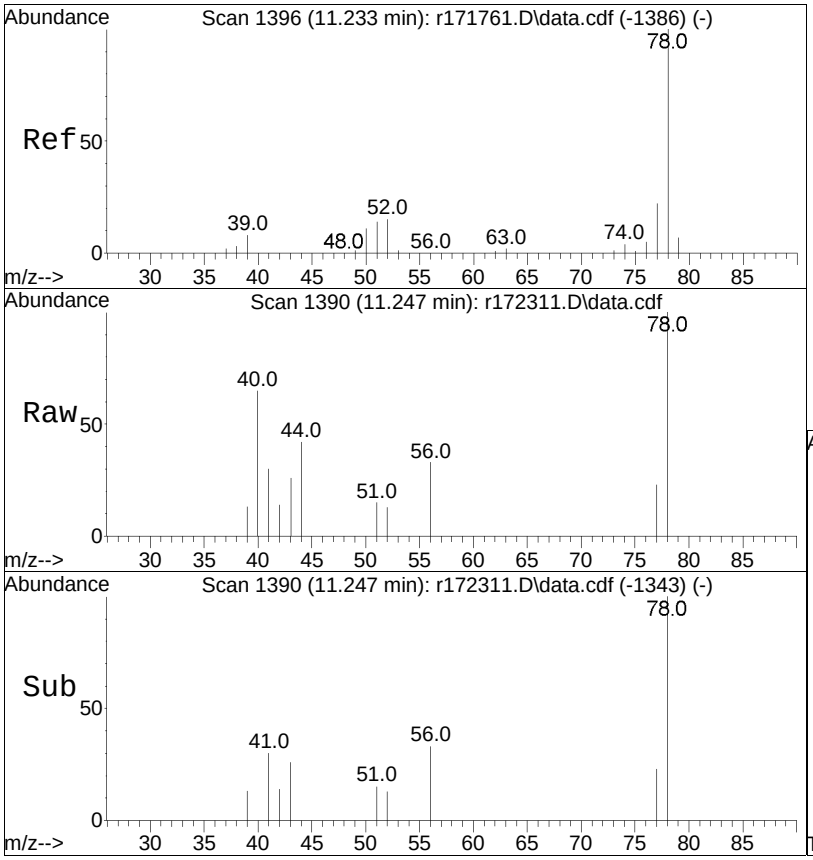


#44
hexane
Concen: 0.21 ppbV
RT: 9.517 min Scan# 1177
Delta R.T. 0.008 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion: 57 Resp: 5736

Ion	Ratio	Lower	Upper
57	100		
43	59.3	113.3	169.9#
86	15.8	13.6	20.4

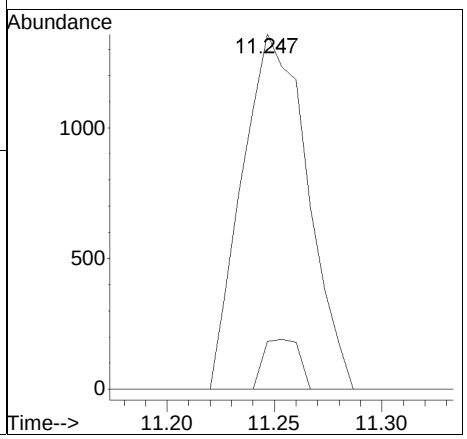


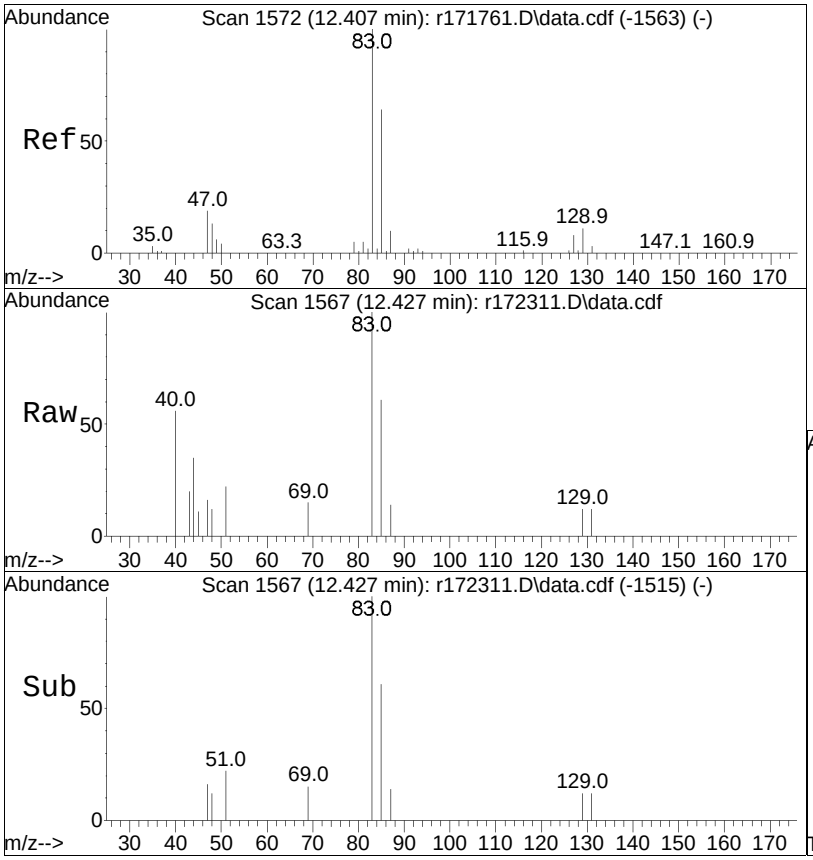


#50
benzene
Concen: 0.05 ppbV
RT: 11.247 min Scan# 1390
Delta R.T. 0.013 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion: 78 Resp: 2879

Ion	Ratio	Lower	Upper
78	100		
52	13.5	11.8	17.6

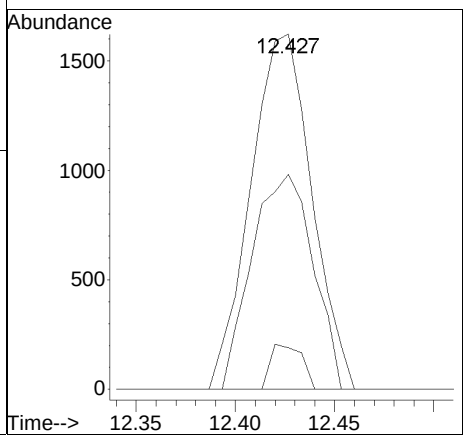


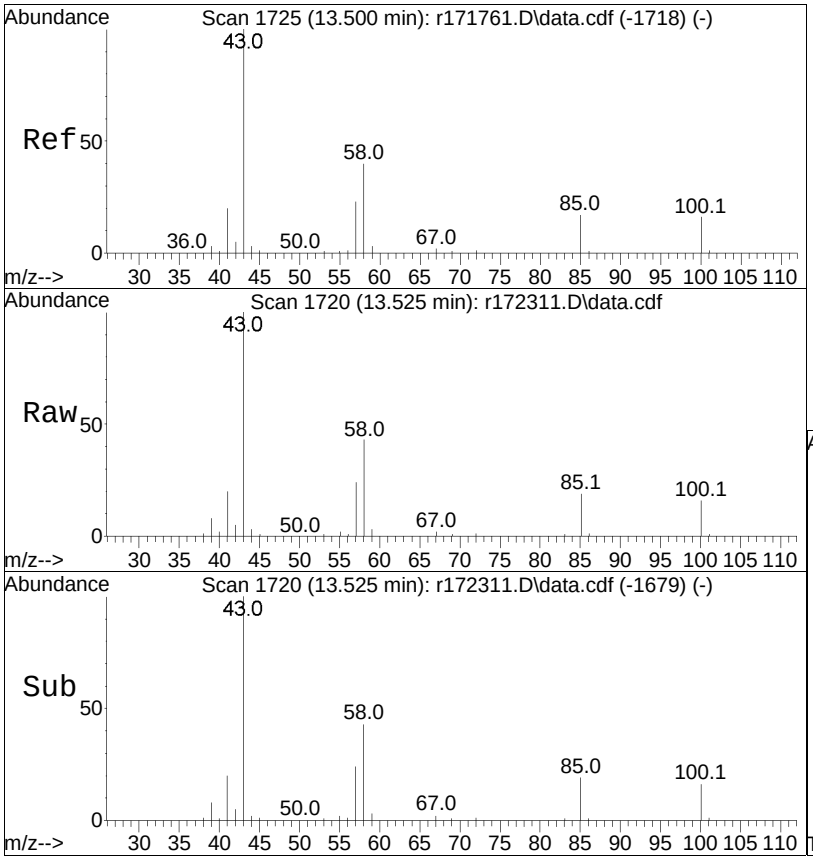


#57
bromodichloromethane
Concen: 0.12 ppbV
RT: 12.427 min Scan# 1567
Delta R.T. 0.020 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion: 83 Resp: 3487

Ion	Ratio	Lower	Upper
83	100		
85	60.5	51.0	76.6
129	11.7	8.4	12.6

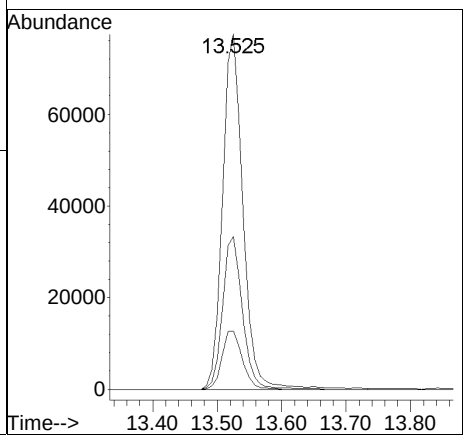


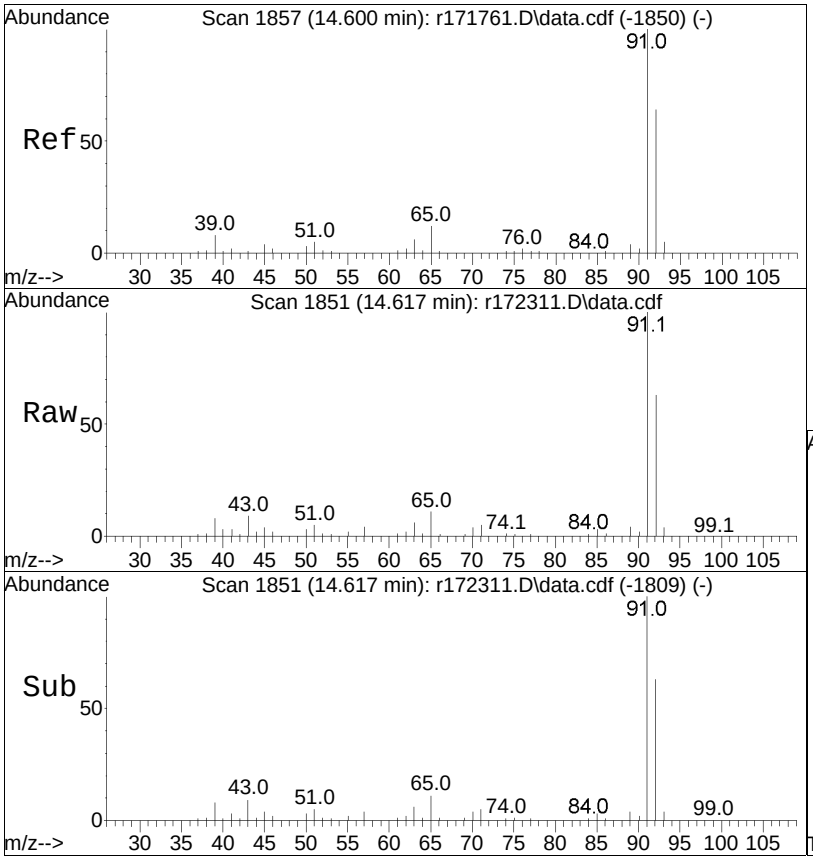


#64
4-methyl-2-pentanone
Concen: 4.47 ppbV
RT: 13.525 min Scan# 1720
Delta R.T. 0.025 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion: 43 Resp: 171327

Ion	Ratio	Lower	Upper
43	100		
58	43.0	32.3	48.5
100	16.5	12.6	18.8

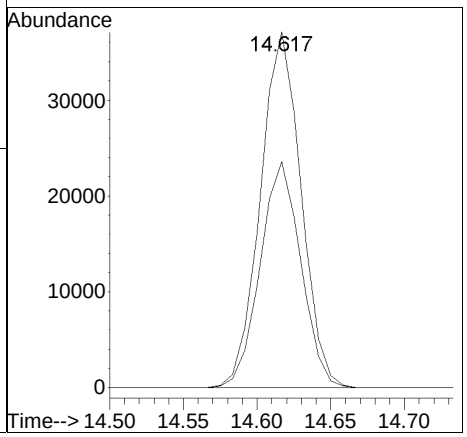


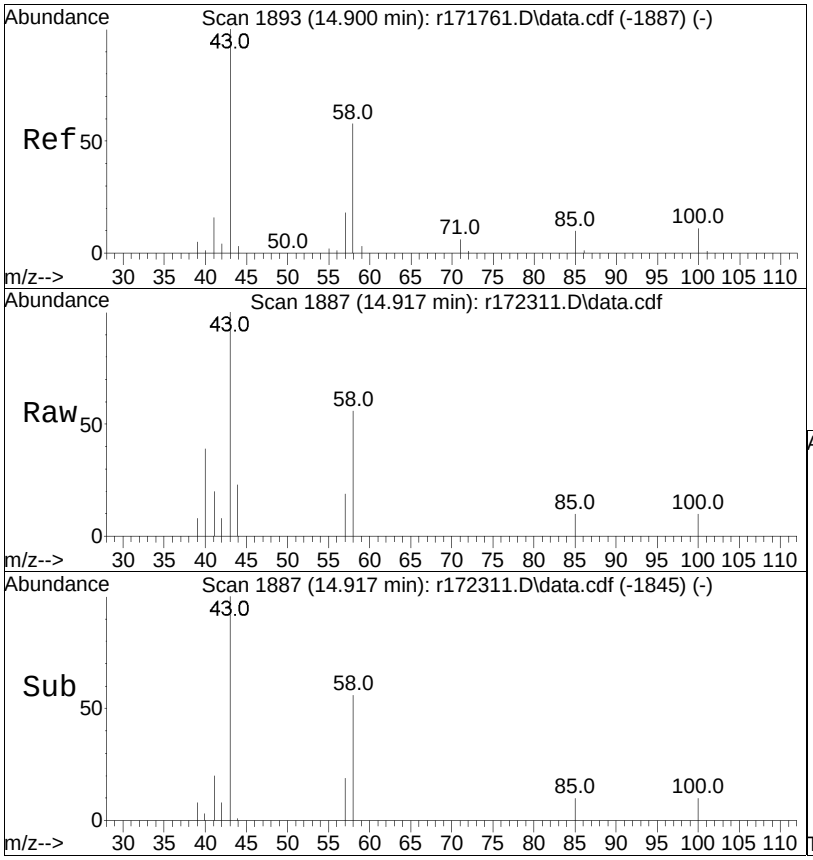


#68
toluene
Concen: 1.20 ppbV
RT: 14.617 min Scan# 1851
Delta R.T. 0.017 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion: 91 Resp: 71123

Ion	Ratio	Lower	Upper
91	100		
92	63.4	51.0	76.6

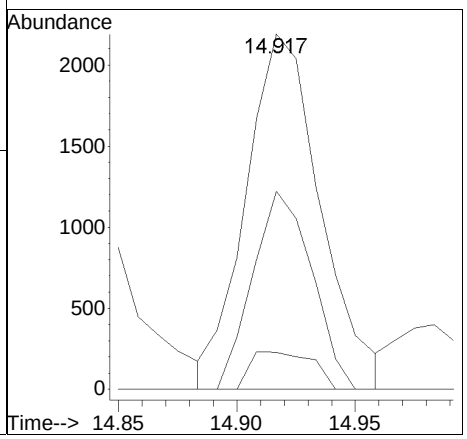


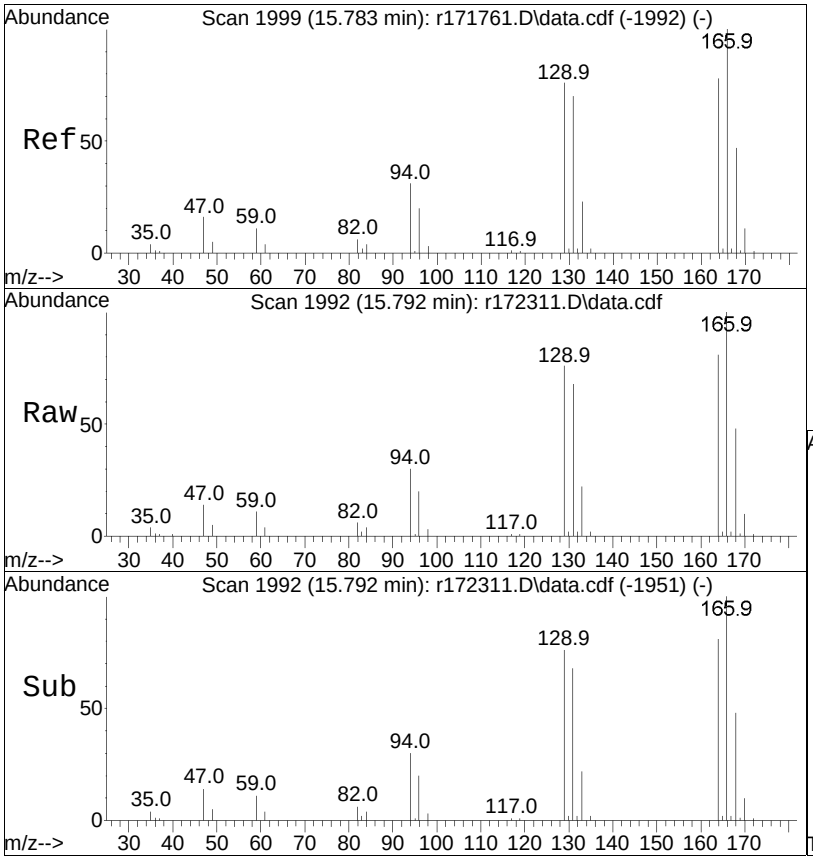


#72
2-hexanone
Concen: 0.15 ppbV m
RT: 14.917 min Scan# 1887
Delta R.T. 0.017 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion: 43 Resp: 4794

Ion	Ratio	Lower	Upper
43	100		
58	55.8	46.5	69.7
100	10.4	9.7	14.5

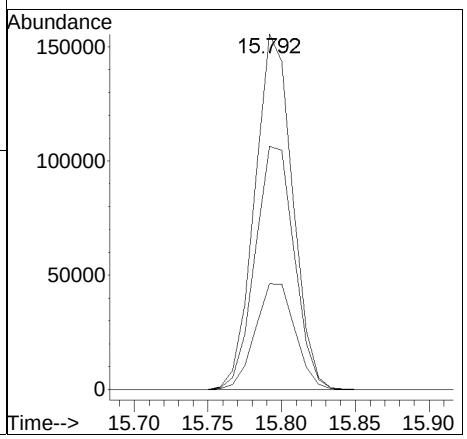


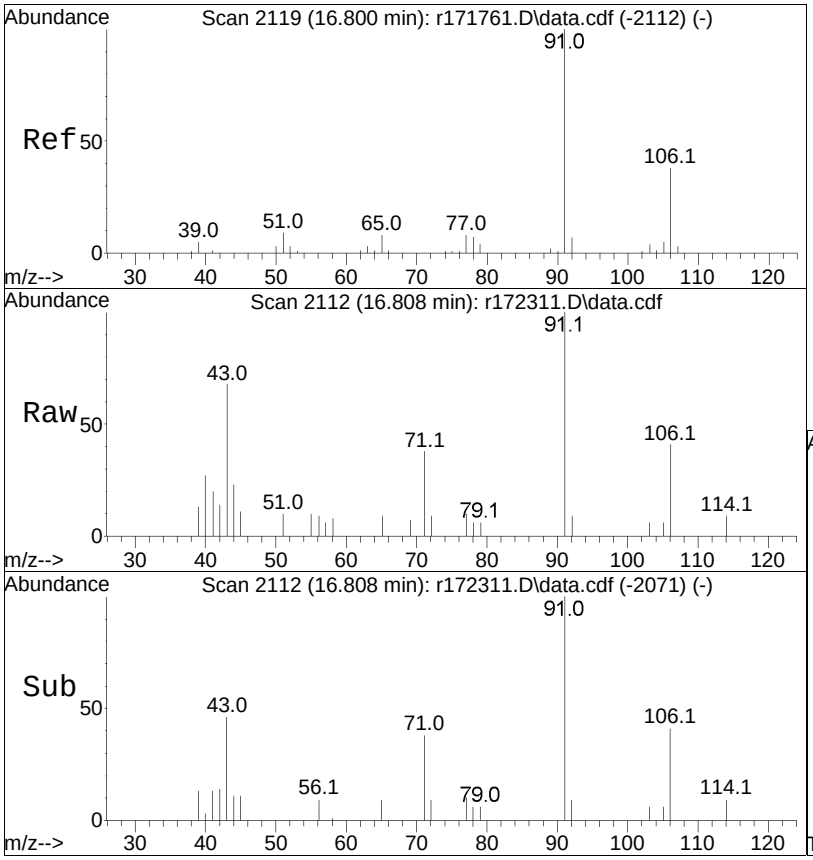


#78
tetrachloroethene
Concen: 10.99 ppbV
RT: 15.792 min Scan# 1992
Delta R.T. 0.008 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion:166 Resp: 277556

Ion	Ratio	Lower	Upper
166	100		
131	68.4	56.0	84.0
94	29.7	24.9	37.3

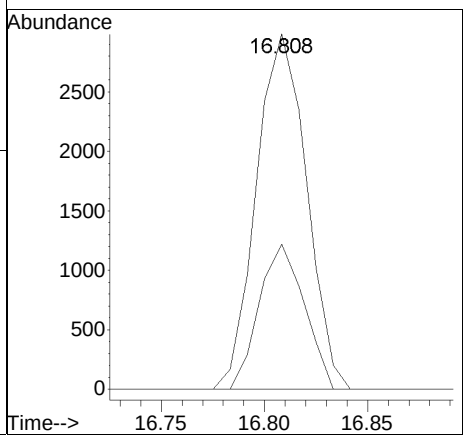


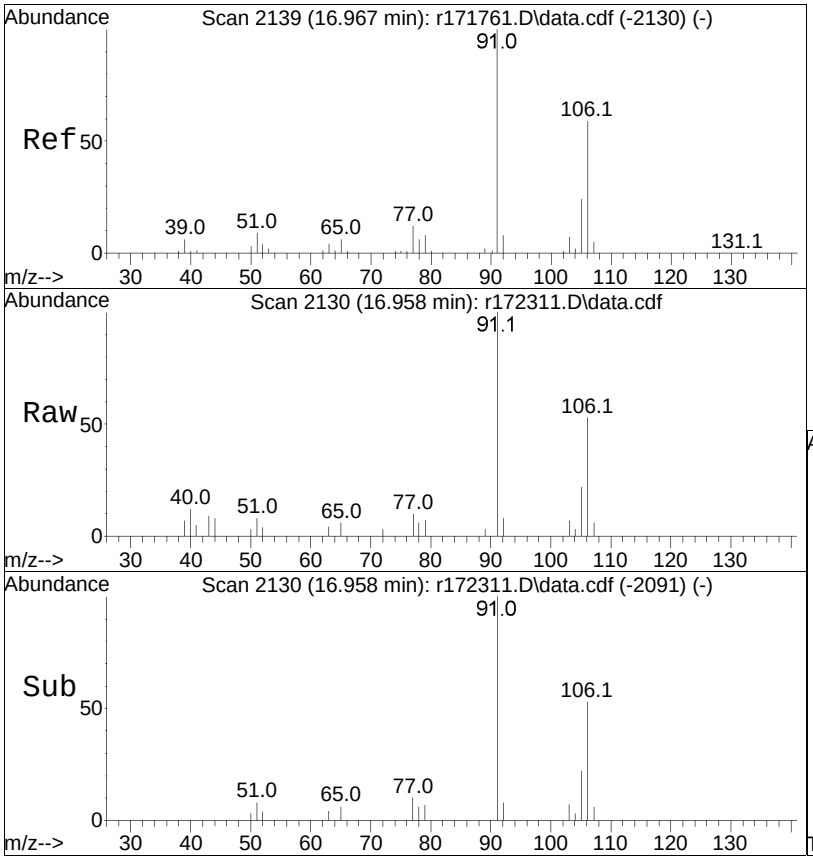


#81
ethylbenzene
Concen: 0.07 ppbV
RT: 16.808 min Scan# 2112
Delta R.T. 0.008 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion: 91 Resp: 5055

Ion	Ratio	Lower	Upper
91	100		
106	40.9	30.2	45.2

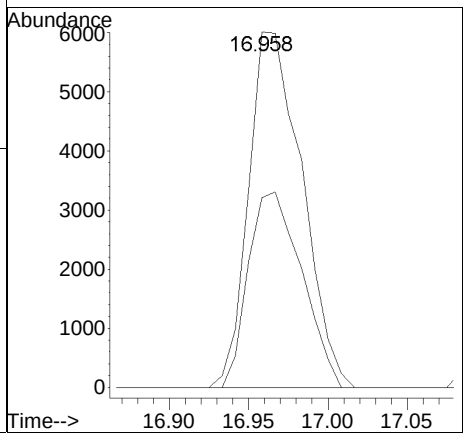


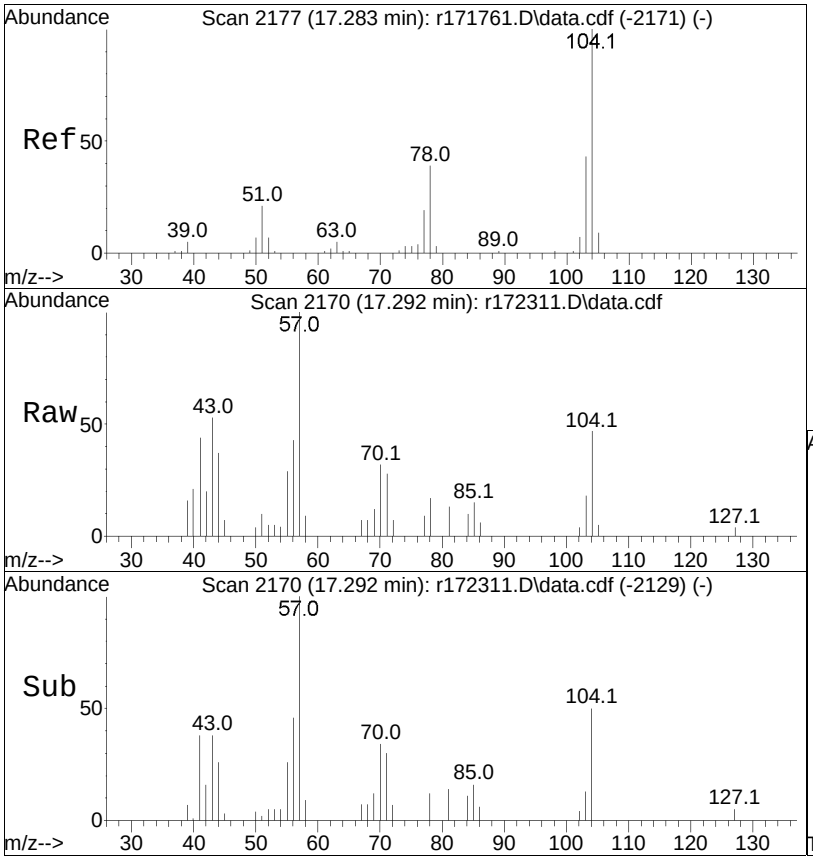


#83
m+p-xylene
Concen: 0.24 ppbV
RT: 16.958 min Scan# 2130
Delta R.T. -0.008 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion: 91 Resp: 14047

Ion	Ratio	Lower	Upper
91	100		
106	53.4	47.1	70.7

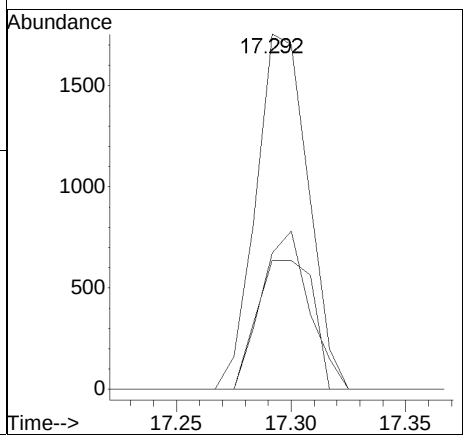


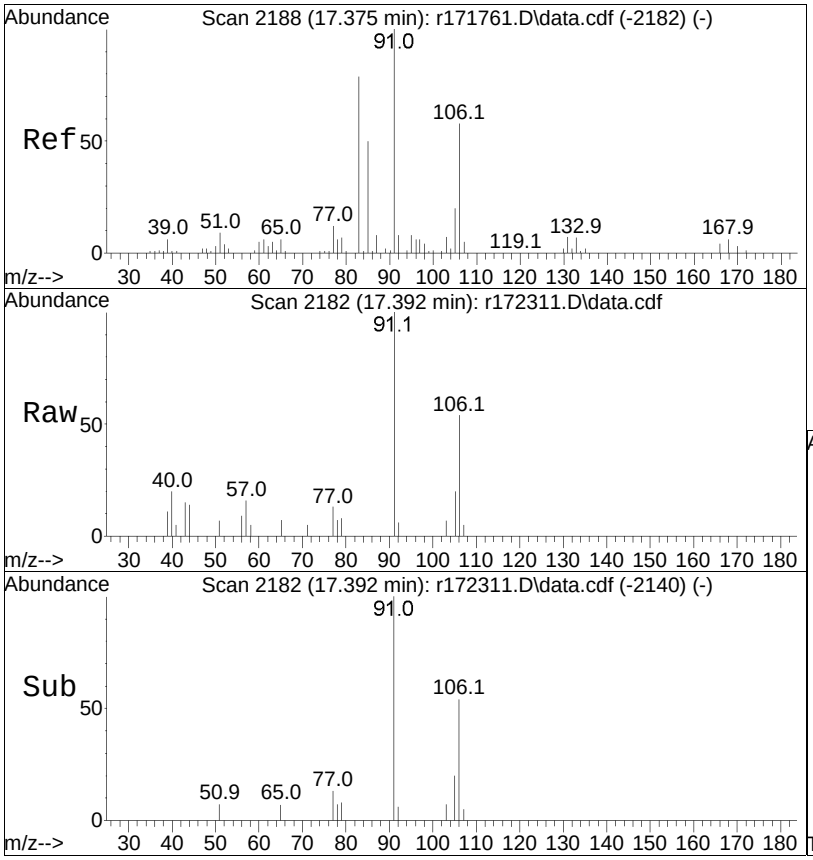


#85
styrene
Concen: 0.05 ppbV
RT: 17.292 min Scan# 2170
Delta R.T. 0.008 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion:104 Resp: 2778

Ion	Ratio	Lower	Upper
104	100		
103	38.4	34.3	51.5
78	36.4	31.3	46.9

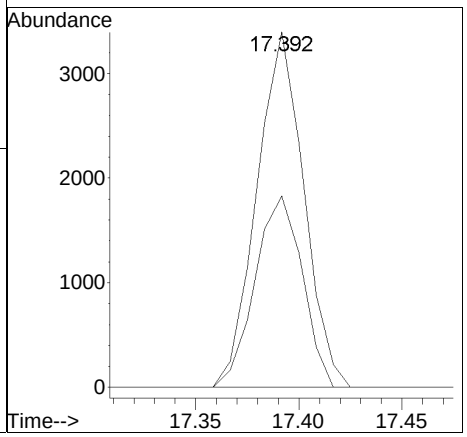


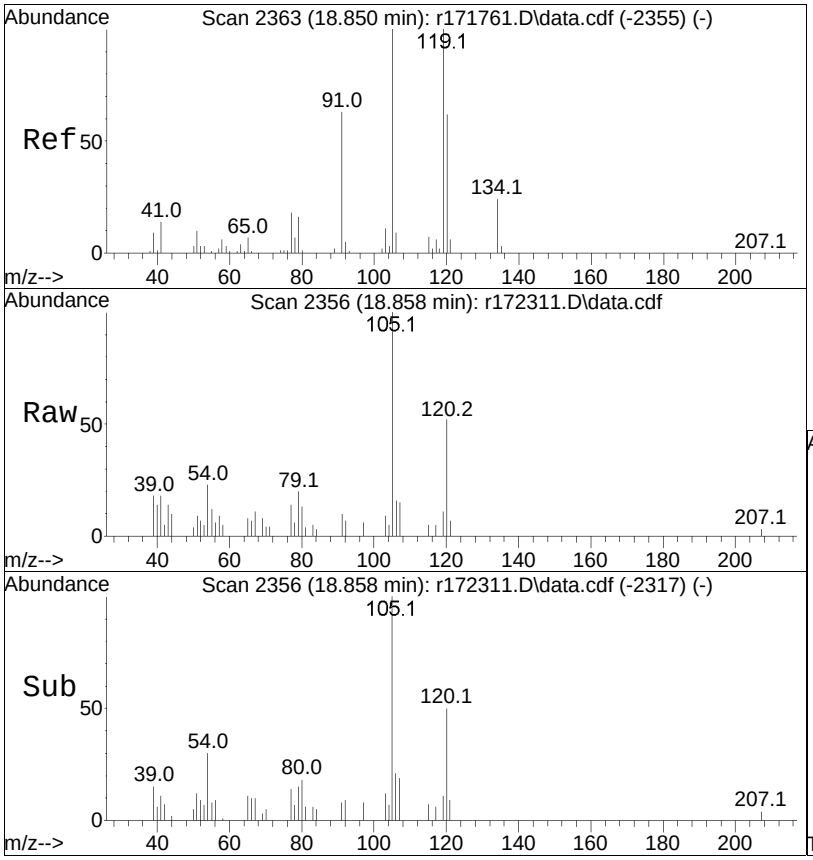


#87
o-xylene
Concen: 0.09 ppbV
RT: 17.392 min Scan# 2182
Delta R.T. 0.017 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion: 91 Resp: 5381

Ion	Ratio	Lower	Upper
91	100		
106	53.8	46.1	69.1

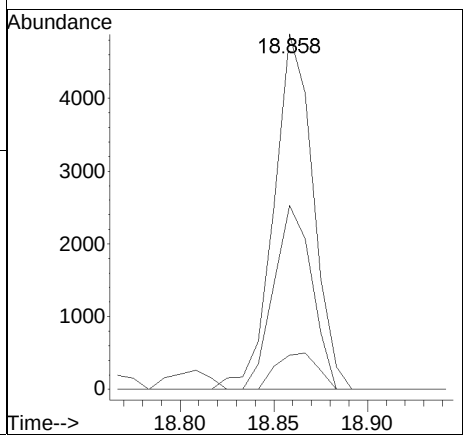




#99
1,2,4-trimethylbenzene
Concen: 0.11 ppbV
RT: 18.858 min Scan# 2356
Delta R.T. 0.008 min
Lab File: r172311.D
Acq: 17 Jun 2018 2:13 AM

Tgt Ion:105 Resp: 7138

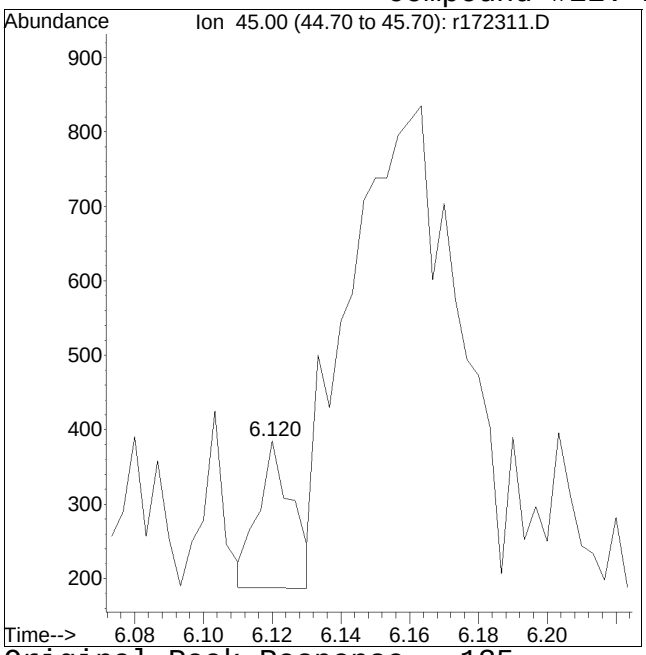
Ion	Ratio	Lower	Upper
105	100		
120	51.7	49.3	73.9
91	9.6	50.2	75.4#

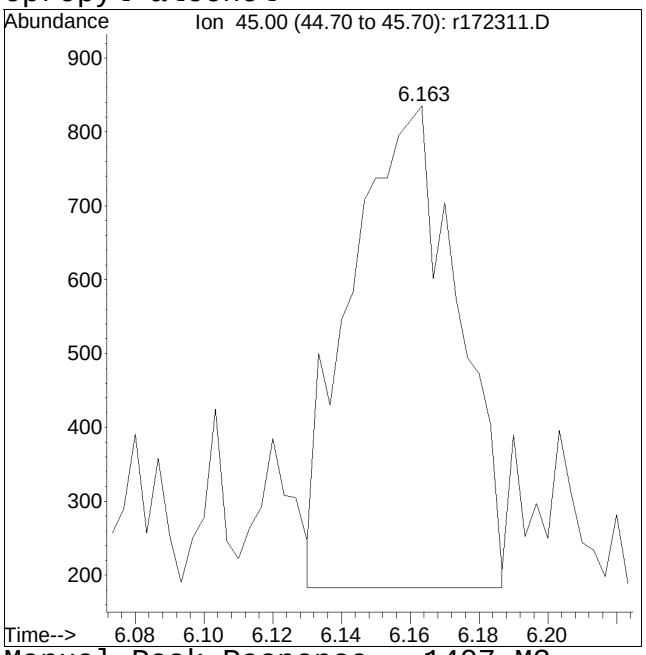


Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r172311.D Operator : AIRLAB17:MB
Date Inj'd : 6/17/2018 2:13 AM Instrument :
Sample : L1821916-01,3,250,250 Quant Date : 6/17/2018 7:40 am

Compound #22: isopropyl alcohol





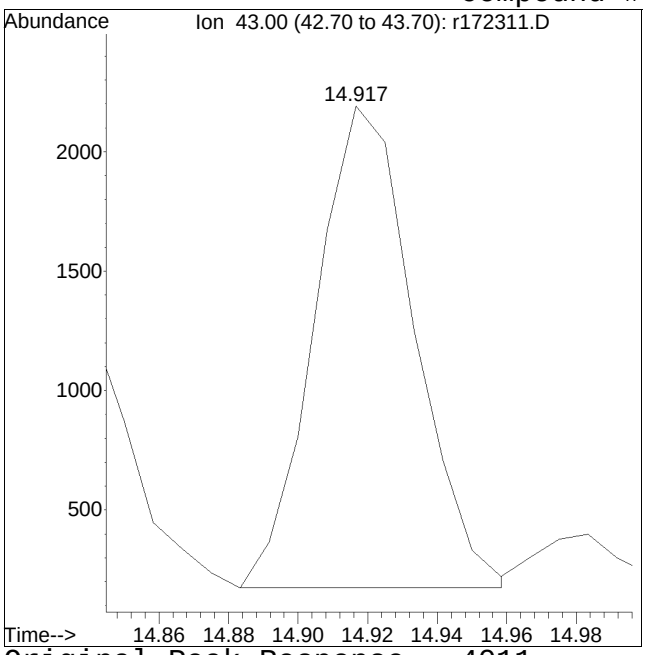
Original Peak Response = 135 Manual Peak Response = 1407 M3

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.

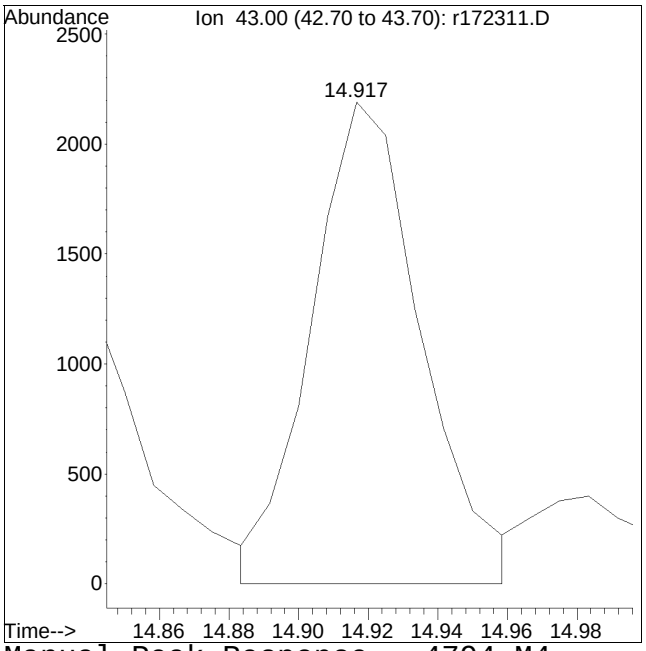
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r172311.D Operator : AIRLAB17:MB
Date Inj'd : 6/17/2018 2:13 AM Instrument :
Sample : L1821916-01,3,250,250 Quant Date : 6/17/2018 7:40 am

Compound #72: 2-hexanone



Original Peak Response = 4011



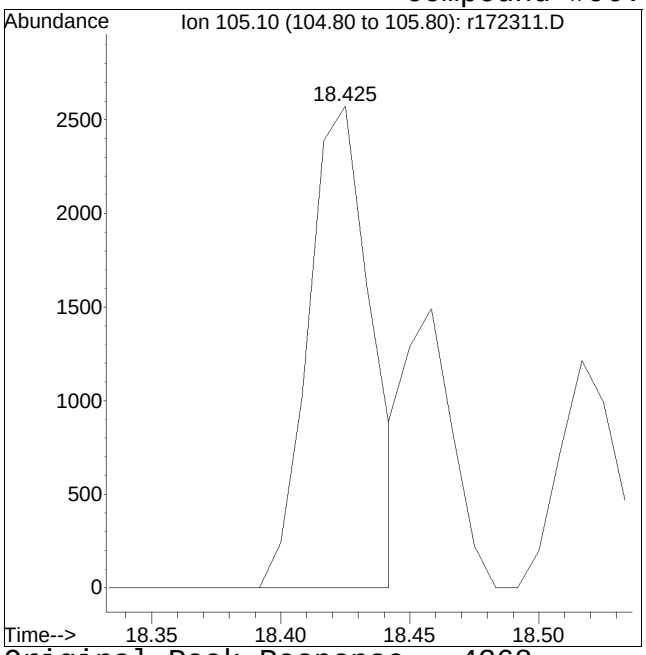
Manual Peak Response = 4794 M4

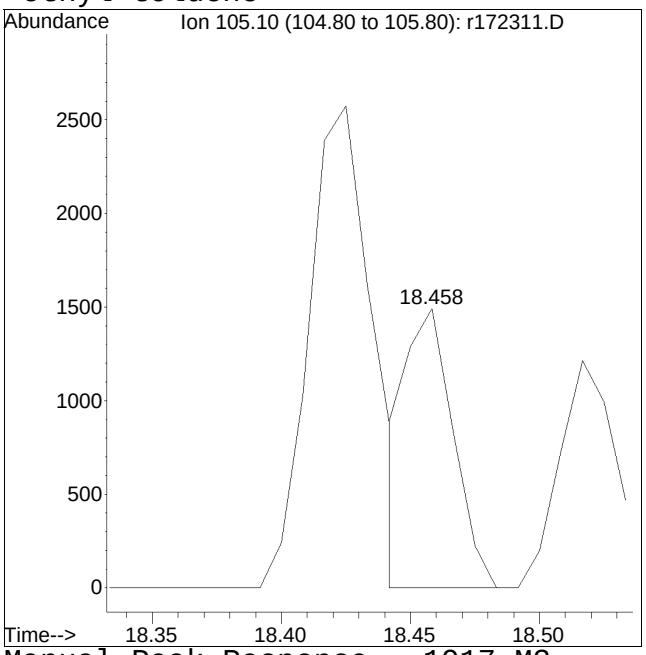
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r172311.D Operator : AIRLAB17:MB
Date Inj'd : 6/17/2018 2:13 AM Instrument :
Sample : L1821916-01,3,250,250 Quant Date : 6/17/2018 7:40 am

Compound #96: 4-ethyl toluene





Original Peak Response = 4368 Manual Peak Response = 1917 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 : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172312.D
Acq On : 17 Jun 2018 2:51 AM
Operator : AIRLAB17:MB
Sample : L1821916-02,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 21:36:47 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180616T\r172296.D
Sub List : TO15-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.450	49	169711	10.000	ppbV	0.02
Standard Area = 188951			Recovery =		89.82%	
43) 1,4-difluorobenzene	11.687	114	549541	10.000	ppbV	0.02
Standard Area = 604388			Recovery =		90.93%	
67) chlorobenzene-D5	16.417	54	78804	10.000	ppbV	0.02
Standard Area = 80538			Recovery =		97.85%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	3.982	85	11676	0.555	ppbV	97
6) chloromethane	4.162	50	670	0.061	ppbV #	88
7) Freon-114	4.288		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.570		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.297	31	4313	0.555	ppbV #	62
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.850	43	55685	3.824	ppbV #	87
21) trichlorofluoromethane	6.017	101	4471	0.238	ppbV	99
22) isopropyl alcohol	6.163	45	1758M3	0.100	ppbV	
26) 1,1-dichloroethene	0.000		0	N.D.	d	
27) tertiary butyl alcohol	6.870	59	7113	0.439	ppbV #	86
28) methylene chloride	6.936	49	1897M1	0.142	ppbV	
29) 3-chloropropene	6.990		0	N.D.		
30) carbon disulfide	7.212	76	45715	1.234	ppbV #	1
31) Freon 113	7.266	101	1678	0.072	ppbV	95
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.383		0	N.D.		
36) 2-butanone	8.767	43	20739	0.692	ppbV #	86
37) cis-1,2-dichloroethene	9.267		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.608	83	32776	1.399	ppbV	98
40) Tetrahydrofuran	10.067	42	7673M6	0.448	ppbV	
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.525	57	54603	2.070	ppbV #	43
48) 1,1,1-trichloroethane	10.725		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172312.D
Acq On : 17 Jun 2018 2:51 AM
Operator : AIRLAB17:MB
Sample : L1821916-02,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 21:36:47 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180616T\r172296.D
Sub List : TO15-NY - .

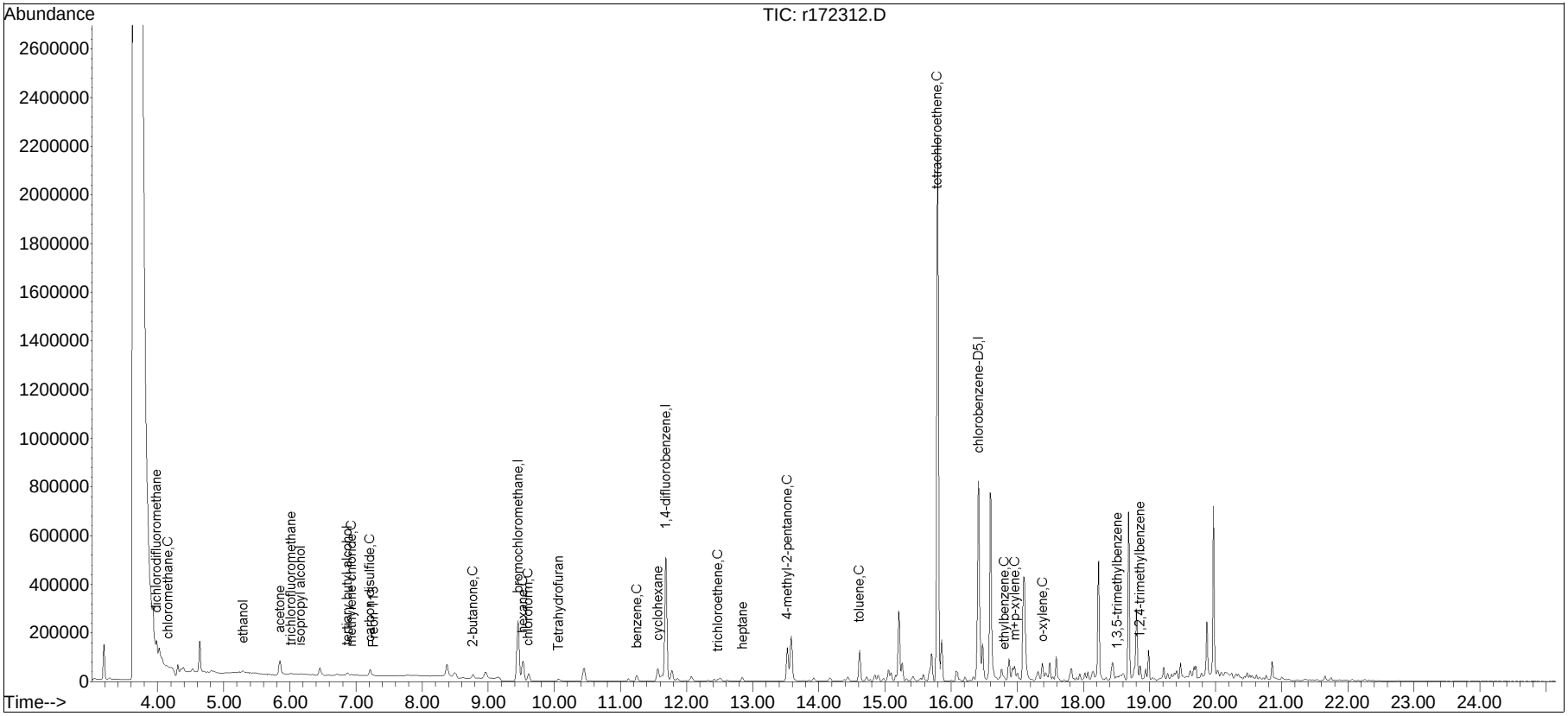
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) benzene	11.253	78	10379	0.187	ppbV	97
52) carbon tetrachloride	11.420		0	N.D.		
53) cyclohexane	11.567	56	26806	0.951	ppbV	97
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.	d	
58) 1,4-dioxane	0.000		0	N.D.		
59) trichloroethene	12.473	130	3282	0.147	ppbV	98
60) 2,2,4-trimethylpentane	0.000		0	N.D.	d	
62) heptane	12.847	43	8020M6	0.238	ppbV	
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.525	43	112219M6	3.041	ppbV	
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	14.375		0	N.D.		
68) toluene	14.617	91	102253	1.646	ppbV	98
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	15.792	166	776007	29.220	ppbV	98
80) chlorobenzene	0.000		0	N.D.	d	
81) ethylbenzene	16.808	91	5387	0.071	ppbV	99
83) m+p-xylene	16.967	91	18415	0.297	ppbV	93
84) bromoform	0.000		0	N.D.		
85) styrene	17.300		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	d	
87) o-xylene	17.392	91	11091	0.182	ppbV	92
96) 4-ethyl toluene	0.000		0	N.D.	d	
97) 1,3,5-trimethylbenzene	18.517	105	5846	0.072	ppbV #	92
99) 1,2,4-trimethylbenzene	18.858	105	12630	0.181	ppbV #	63
101) Benzyl Chloride	0.000		0	N.D.		
102) 1,3-dichlorobenzene	0.000		0	N.D.		
103) 1,4-dichlorobenzene	0.000		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

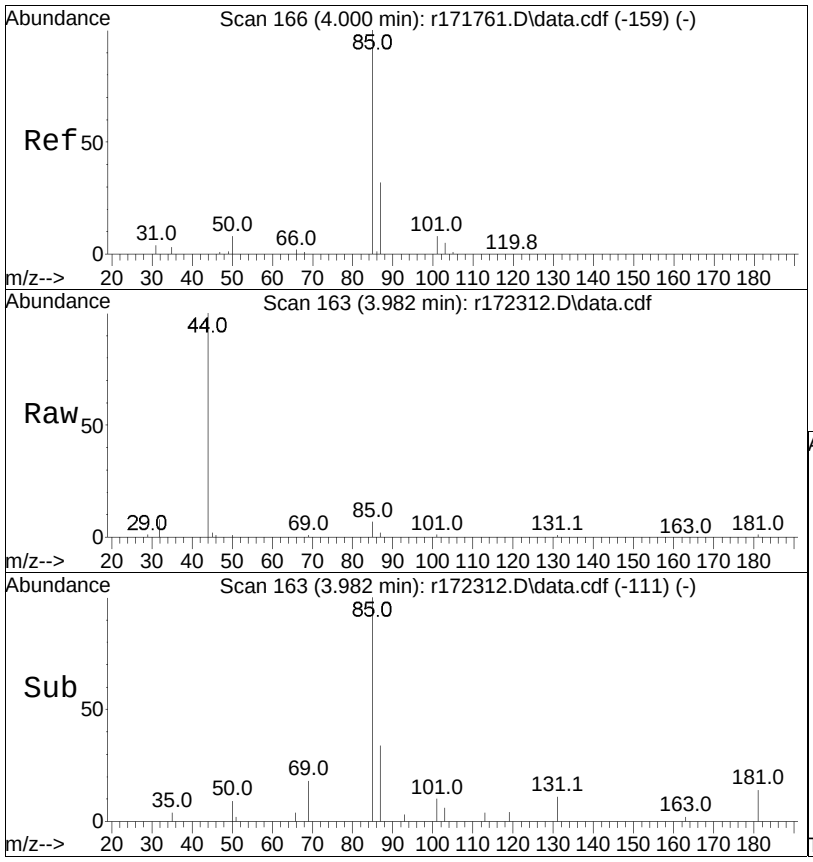
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY - .s\Data\Airlab17\2018\180616T\r172296.D

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172312.D
Acq On : 17 Jun 2018 2:51 AM
Operator : AIRLAB17:MB
Sample : L1821916-02,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 21:36:47 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

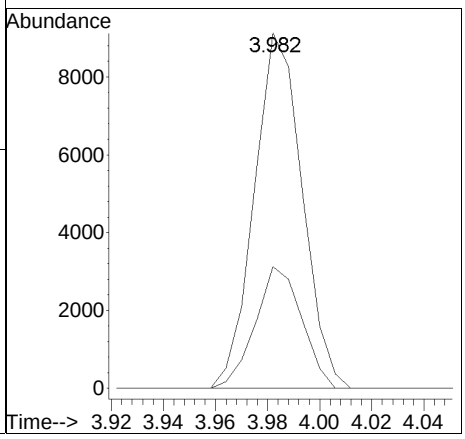


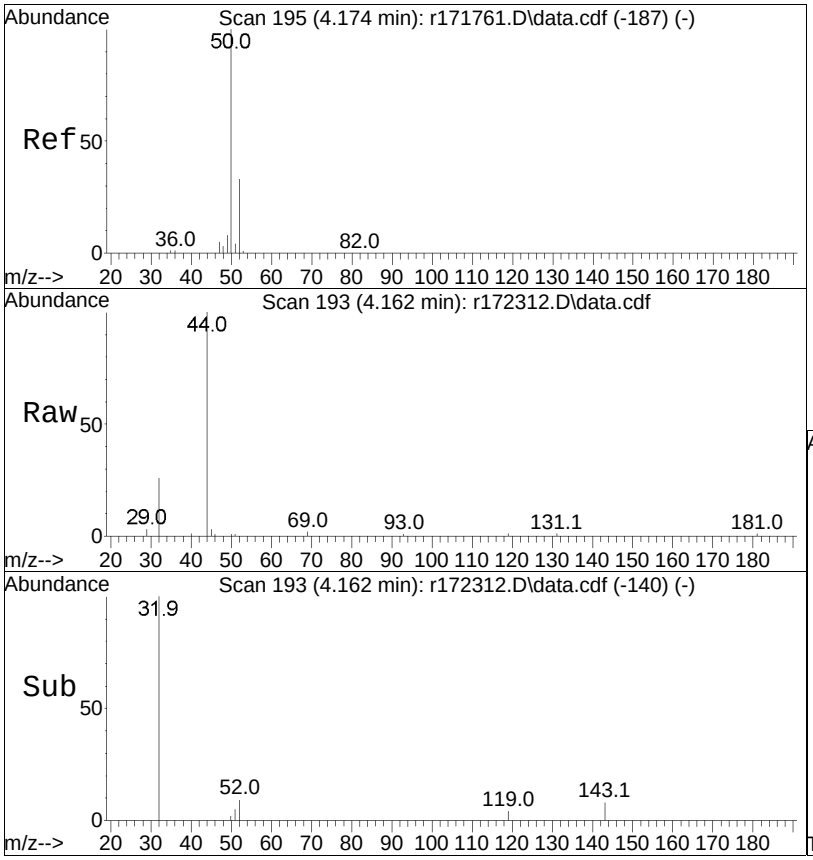


#5
dichlorodifluoromethane
Concen: 0.56 ppbV
RT: 3.982 min Scan# 163
Delta R.T. -0.018 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 85 Resp: 11676

Ion	Ratio	Lower	Upper
85	100		
87	34.3	26.0	39.0

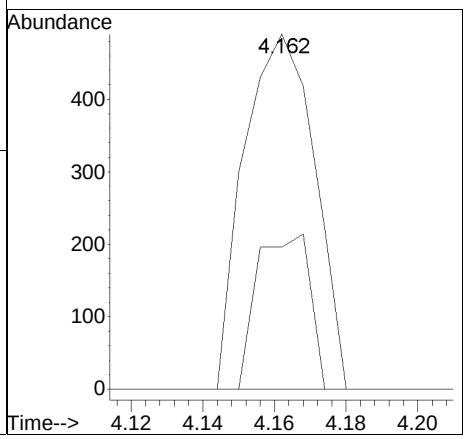


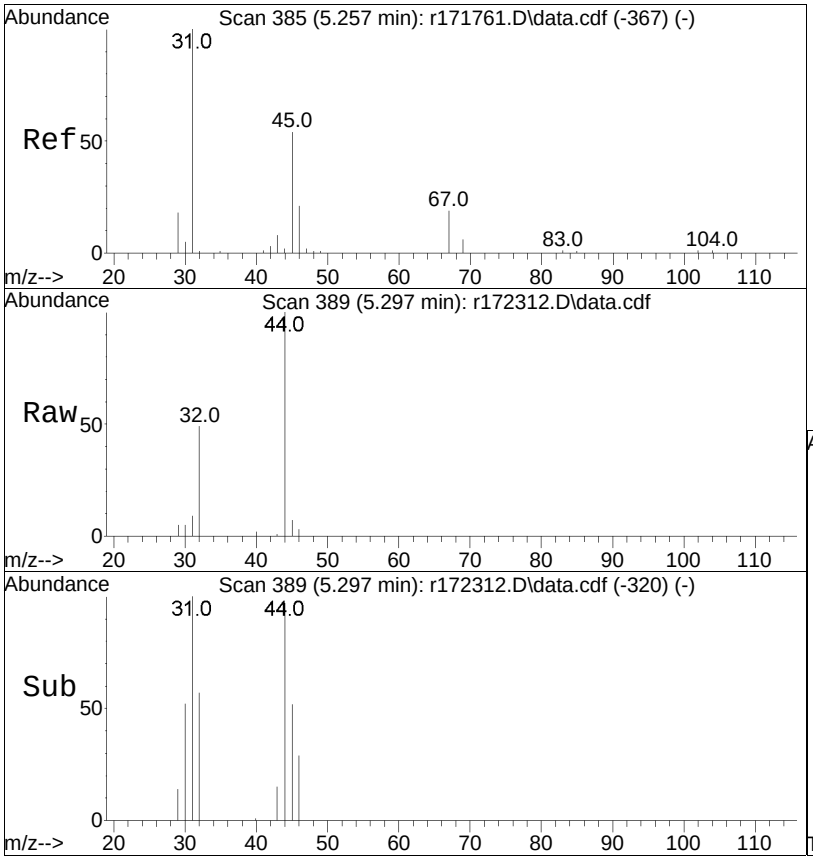


#6
chloromethane
Concen: 0.06 ppbV
RT: 4.162 min Scan# 193
Delta R.T. -0.012 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 50 Resp: 670

Ion	Ratio	Lower	Upper
50	100		
52	40.0	26.6	39.8#

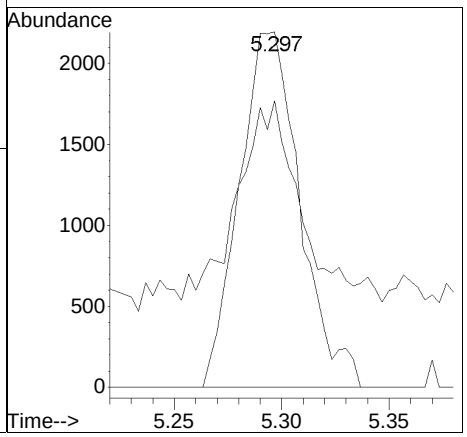


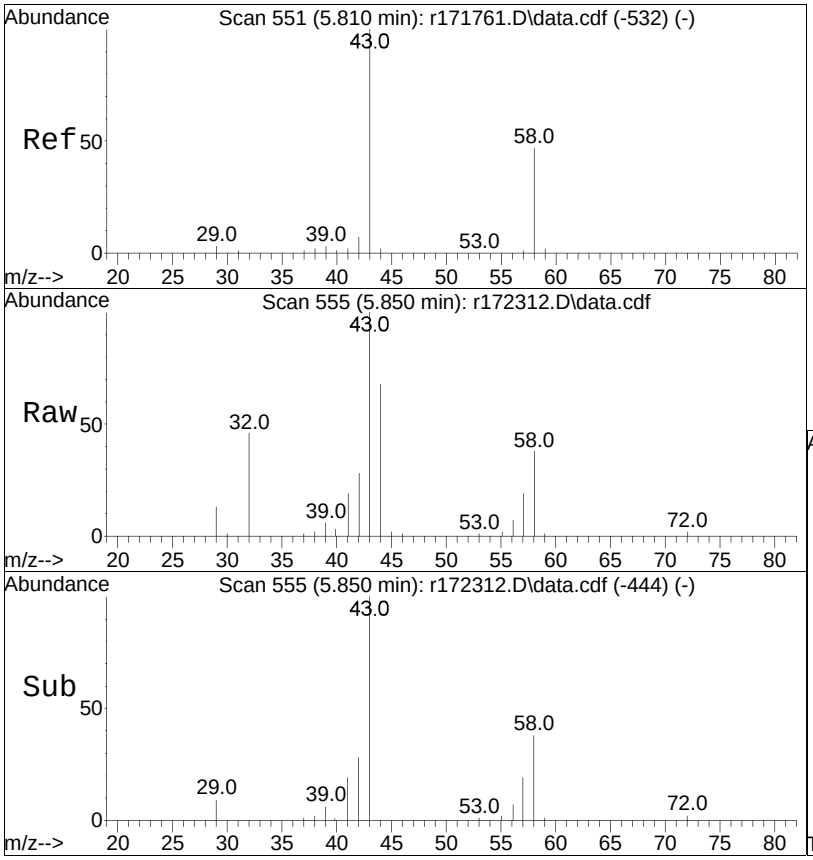


#15
ethanol
Concen: 0.56 ppbV
RT: 5.297 min Scan# 389
Delta R.T. 0.040 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 31 Resp: 4313

Ion	Ratio	Lower	Upper
31	100		
45	80.7	42.9	64.3#

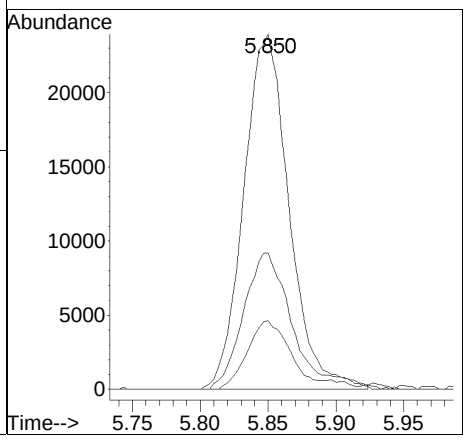


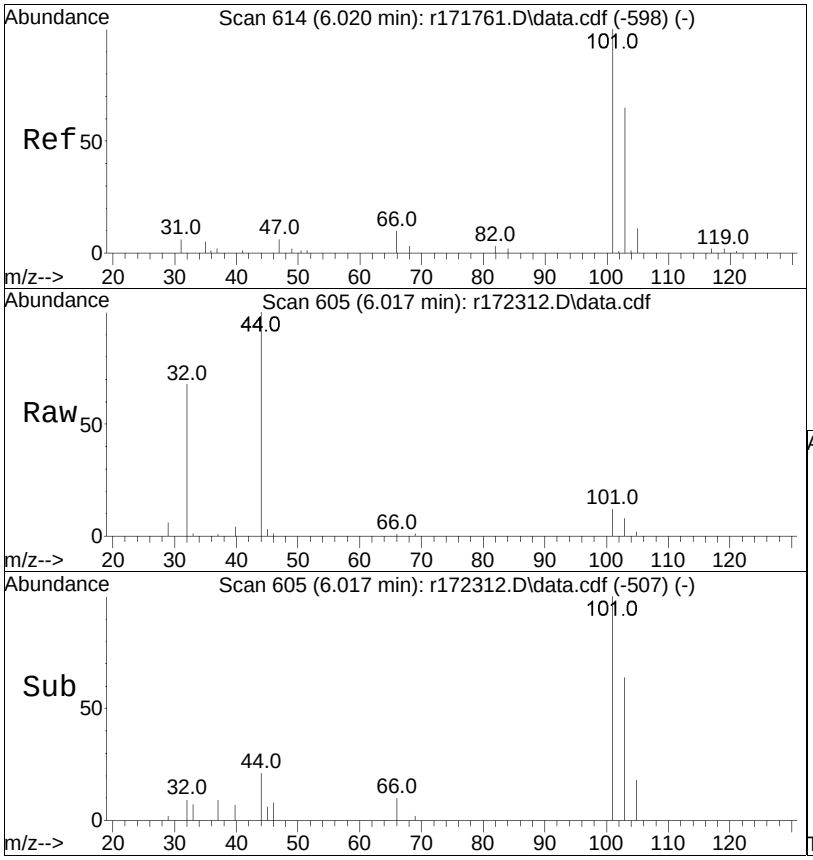


#19
acetone
Concen: 3.82 ppbV
RT: 5.850 min Scan# 555
Delta R.T. 0.040 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 43 Resp: 55685

Ion	Ratio	Lower	Upper
43	100		
58	38.4	37.4	56.0
57	19.3	0.9	1.3#

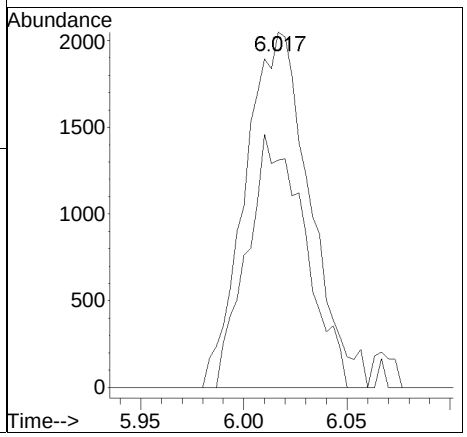


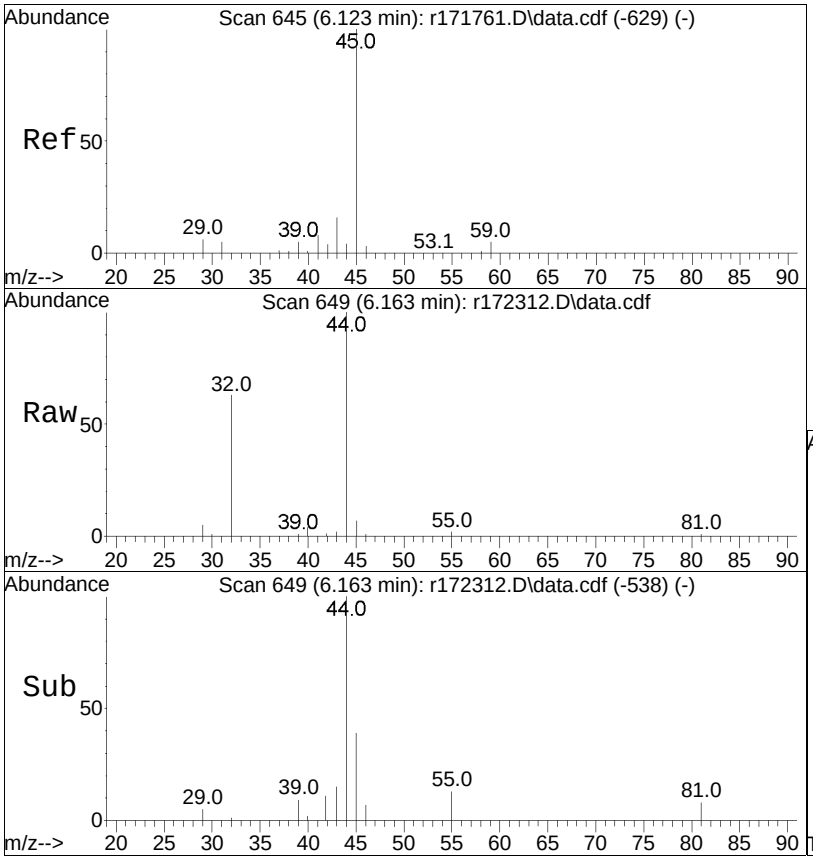


#21
trichlorofluoromethane
Concen: 0.24 ppbV
RT: 6.017 min Scan# 605
Delta R.T. -0.003 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion:101 Resp: 4471

Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.9	77.9

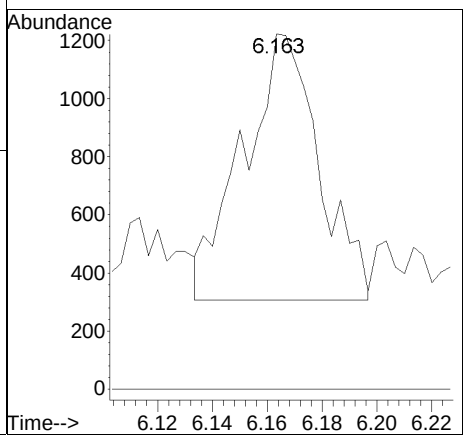


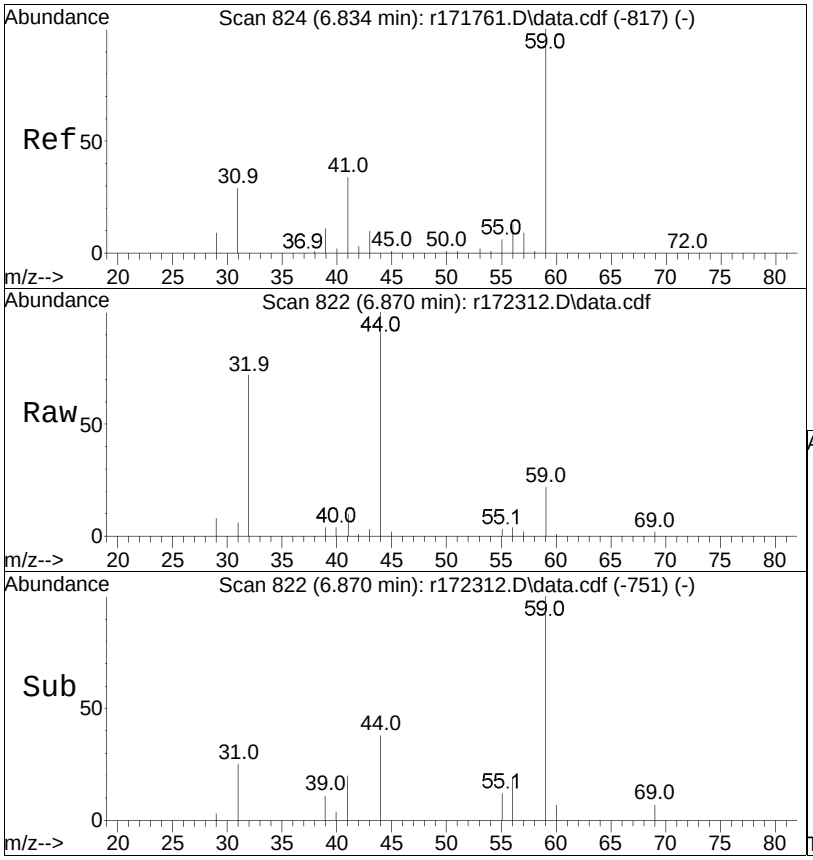


#22
isopropyl alcohol
Concen: 0.10 ppbV m
RT: 6.163 min Scan# 649
Delta R.T. 0.040 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 45 Resp: 1758

Ion	Ratio	Lower	Upper
45	100		
59	0.0	3.9	5.9#

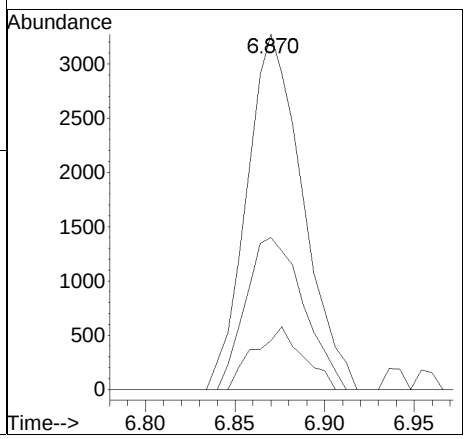


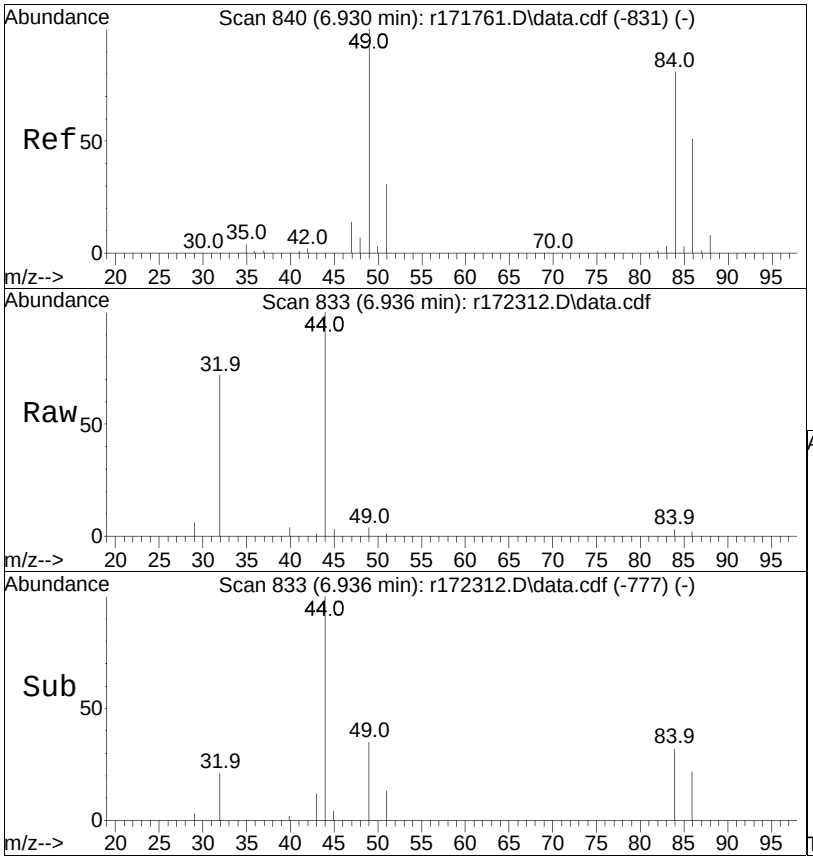


#27
tertiary butyl alcohol
Concen: 0.44 ppbV
RT: 6.870 min Scan# 822
Delta R.T. 0.036 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 59 Resp: 7113

Ion	Ratio	Lower	Upper
59	100		
41	42.8	27.1	40.7#
43	13.7	8.0	12.0#

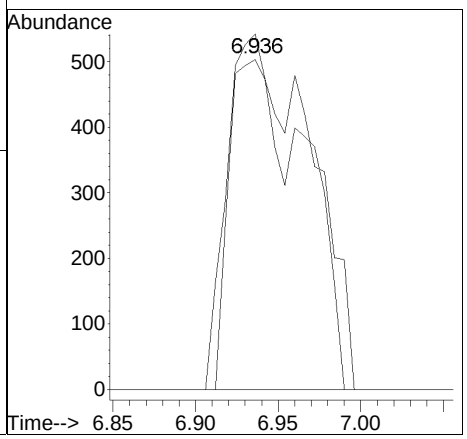


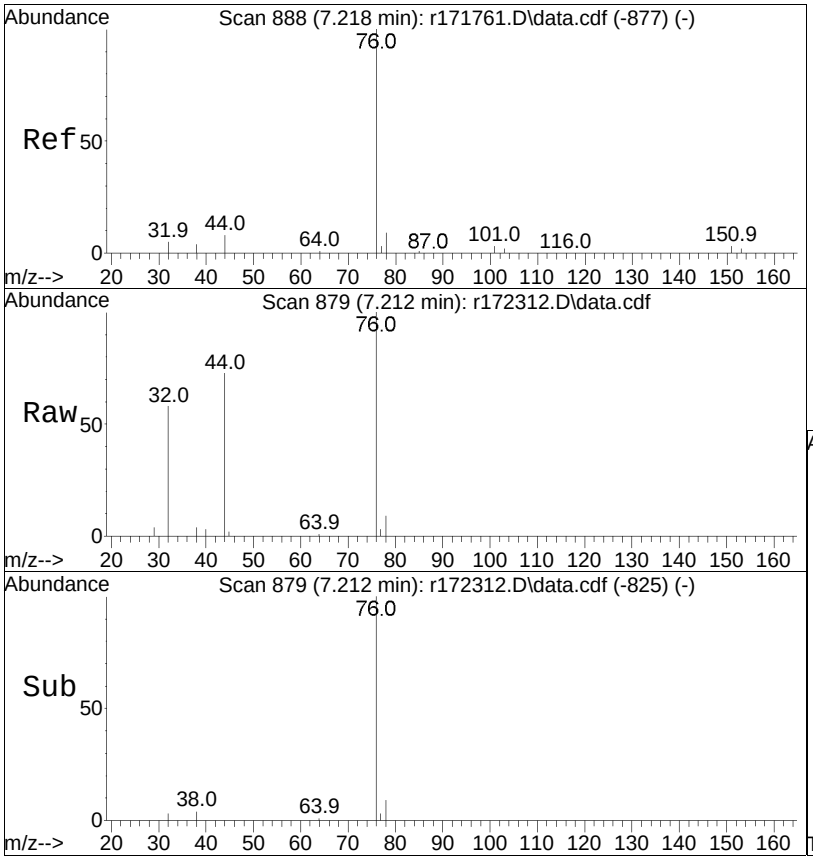


#28
methylene chloride
Concen: 0.14 ppbV m
RT: 6.936 min Scan# 833
Delta R.T. 0.006 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 49 Resp: 1897

Ion	Ratio	Lower	Upper
49	100		
84	92.8	64.8	97.2

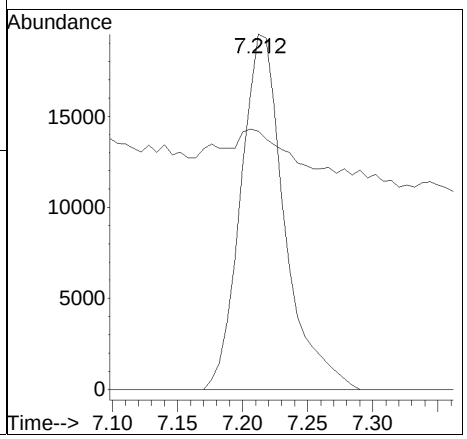


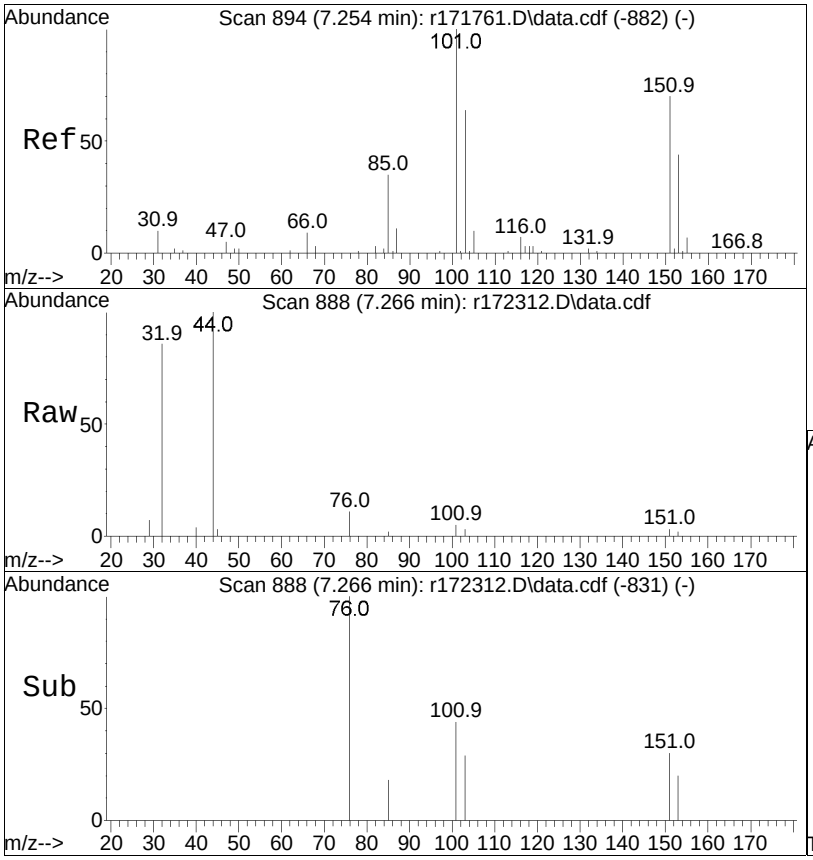


#30
carbon disulfide
Concen: 1.23 ppbV
RT: 7.212 min Scan# 879
Delta R.T. -0.006 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 76 Resp: 45715

Ion	Ratio	Lower	Upper
76	100		
44	72.7	7.5	11.3#

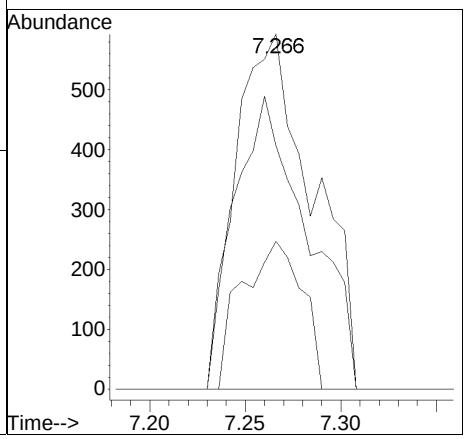


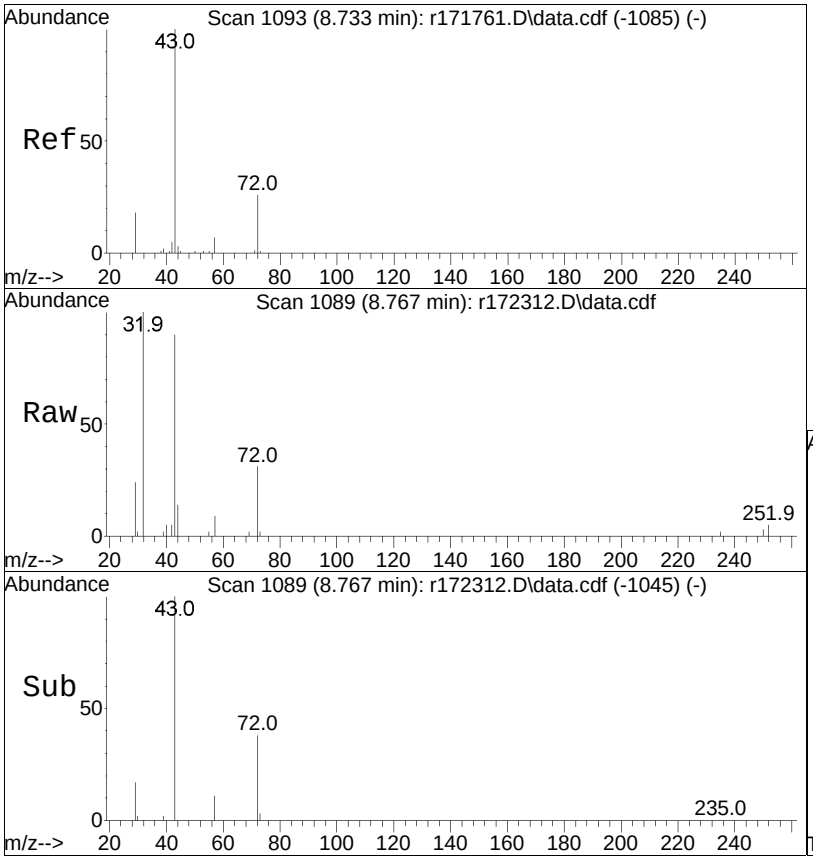


#31
Freon 113
Concen: 0.07 ppbV
RT: 7.266 min Scan# 888
Delta R.T. 0.012 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion:101 Resp: 1678

Ion	Ratio	Lower	Upper
101	100		
85	41.7	28.3	42.5
151	68.5	56.0	84.0

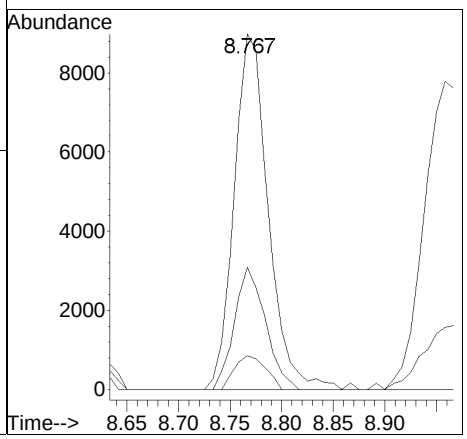


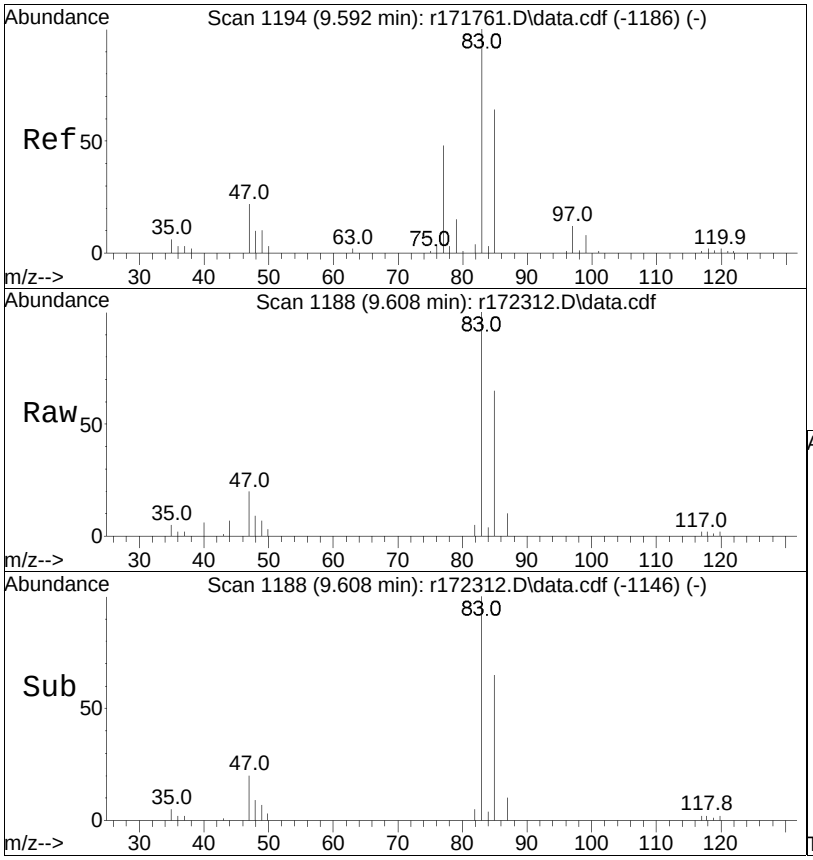


#36
2-butanone
Concen: 0.69 ppbV
RT: 8.767 min Scan# 1089
Delta R.T. 0.033 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 43 Resp: 20739

Ion	Ratio	Lower	Upper
43	100		
72	34.4	21.1	31.7#
57	9.5	5.6	8.4#

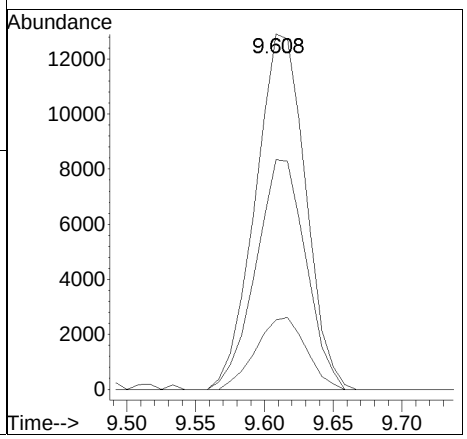


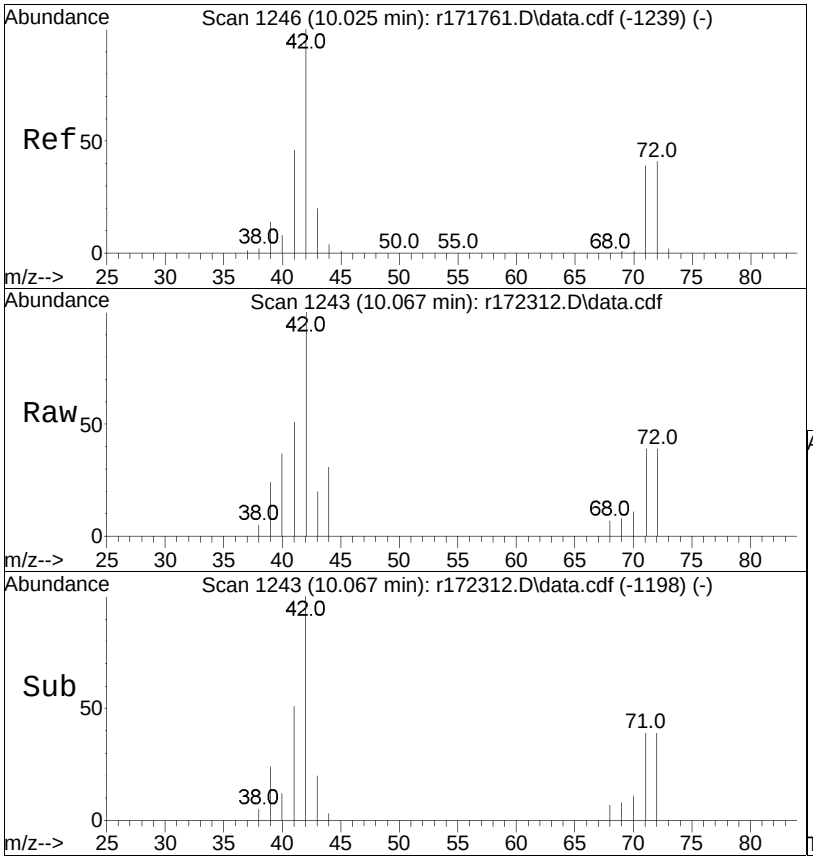


#39
chloroform
Concen: 1.40 ppbV
RT: 9.608 min Scan# 1188
Delta R.T. 0.017 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 83 Resp: 32776

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.8	77.6
47	19.6	18.1	27.1

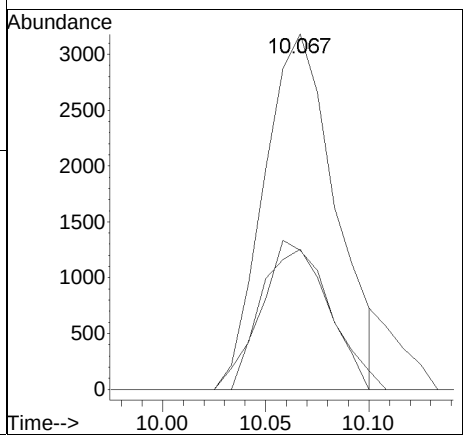


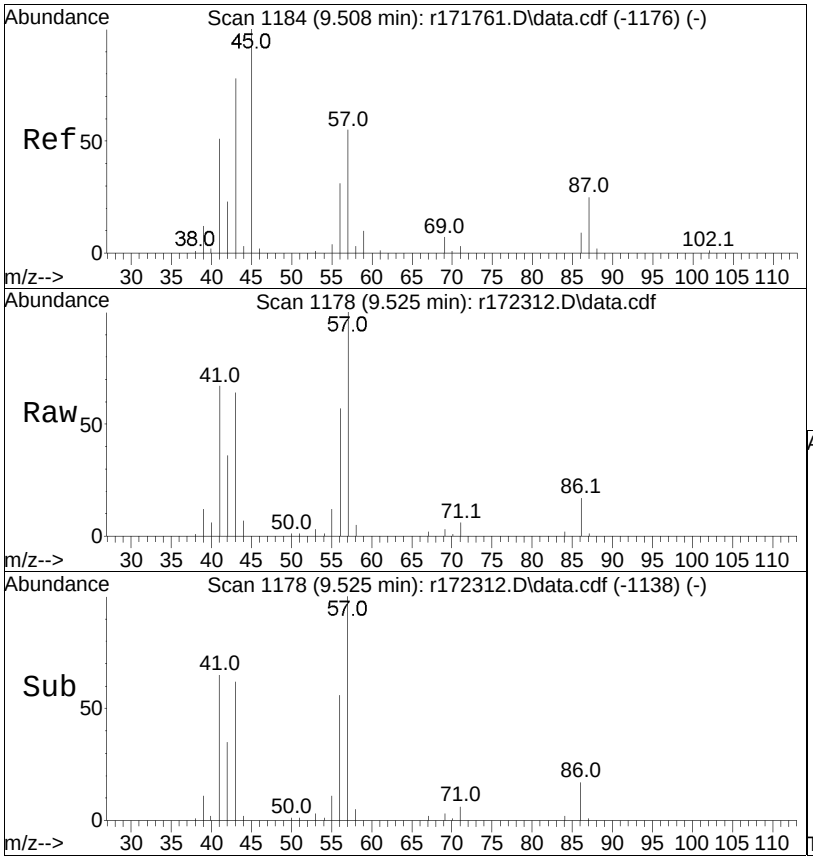


#40
Tetrahydrofuran
Concen: 0.45 ppbV m
RT: 10.067 min Scan# 1243
Delta R.T. 0.042 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 42 Resp: 7673

Ion	Ratio	Lower	Upper
42	100		
71	39.5	31.2	46.8
72	39.1	33.0	49.4

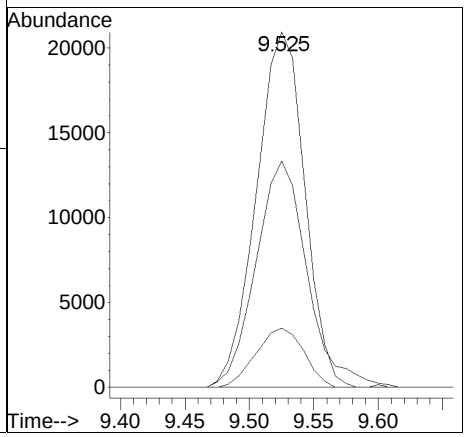


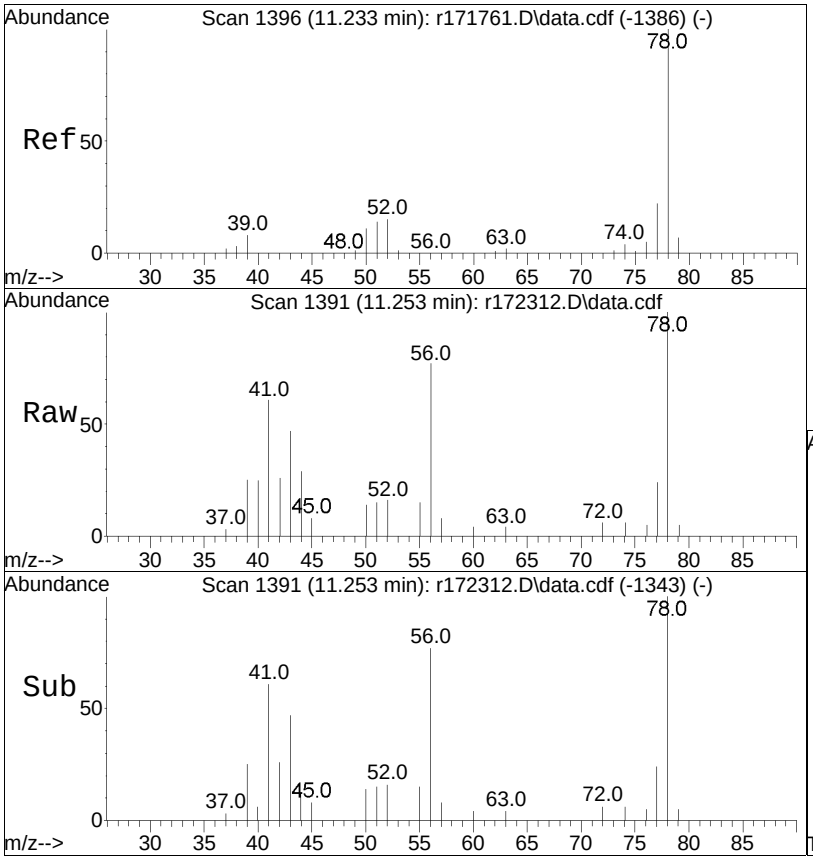


#44
hexane
Concen: 2.07 ppbV
RT: 9.525 min Scan# 1178
Delta R.T. 0.017 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 57 Resp: 54603

Ion	Ratio	Lower	Upper
57	100		
43	63.7	113.3	169.9#
86	16.7	13.6	20.4

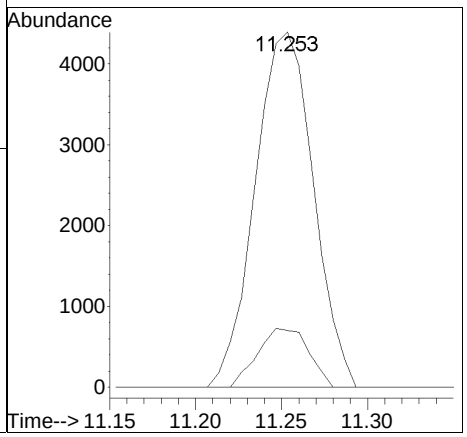


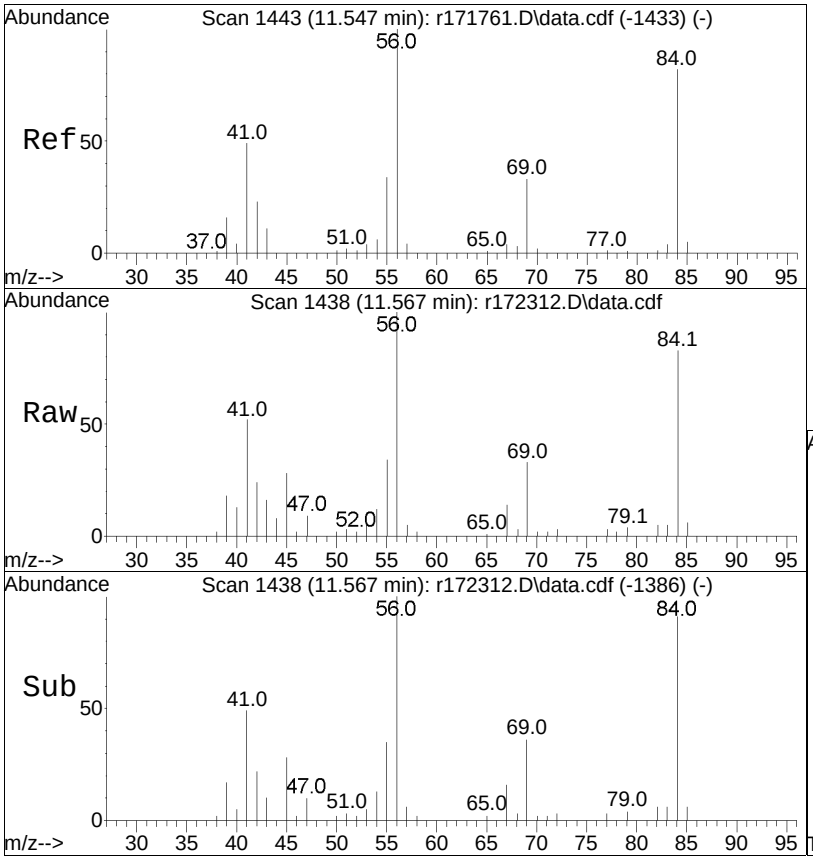


#50
benzene
Concen: 0.19 ppbV
RT: 11.253 min Scan# 1391
Delta R.T. 0.020 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 78 Resp: 10379

Ion	Ratio	Lower	Upper
78	100		
52	16.0	11.8	17.6

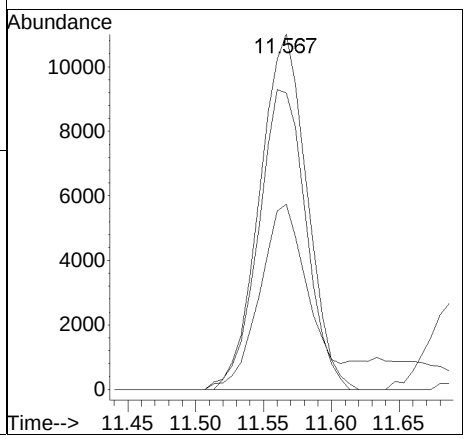


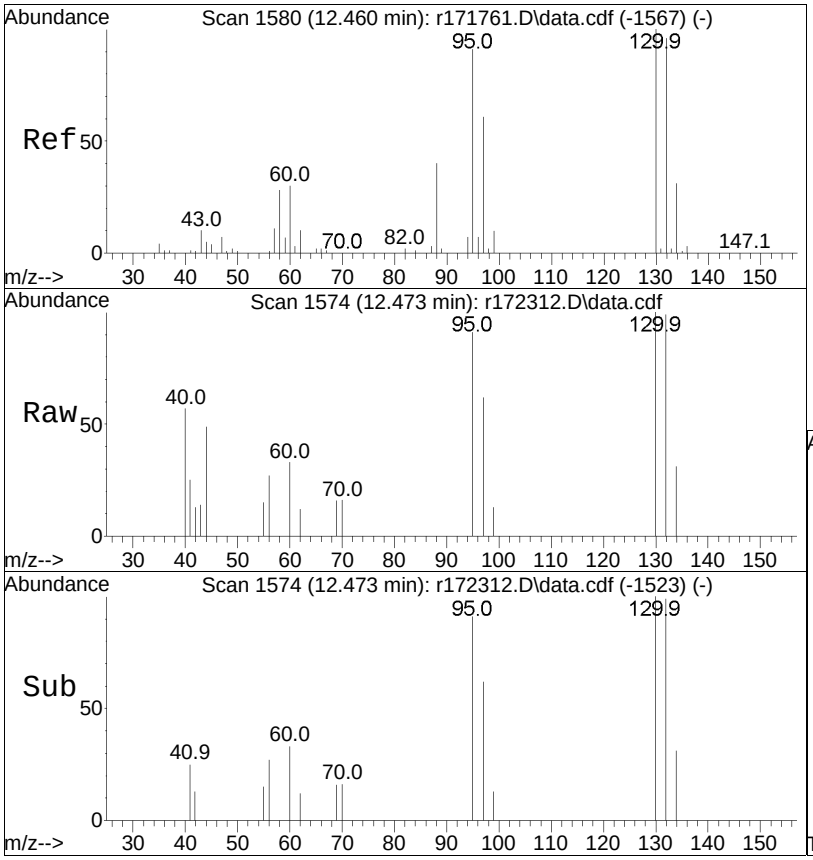


#53
cyclohexane
Concen: 0.95 ppbV
RT: 11.567 min Scan# 1438
Delta R.T. 0.020 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 56 Resp: 26806

Ion	Ratio	Lower	Upper
56	100		
84	83.4	65.8	98.6
41	52.1	39.3	58.9

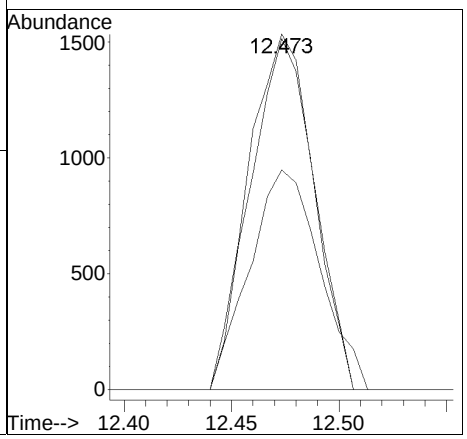


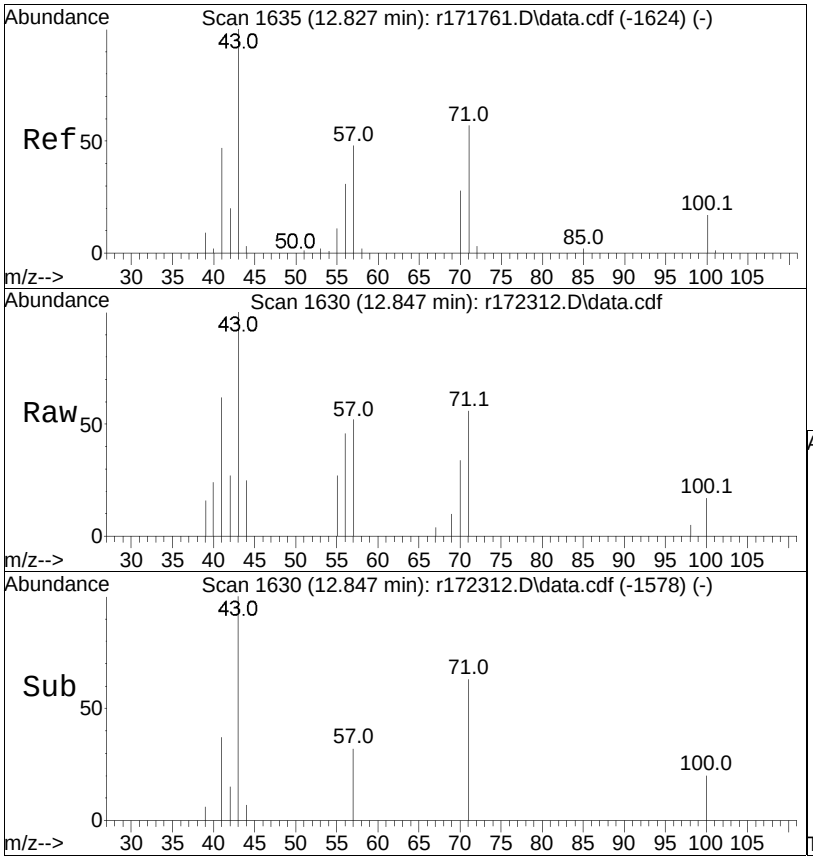


#59
trichloroethene
Concen: 0.15 ppbV
RT: 12.473 min Scan# 1574
Delta R.T. 0.013 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion:130 Resp: 3282

Ion	Ratio	Lower	Upper
130	100		
132	98.8	77.0	115.4
97	61.8	49.2	73.8

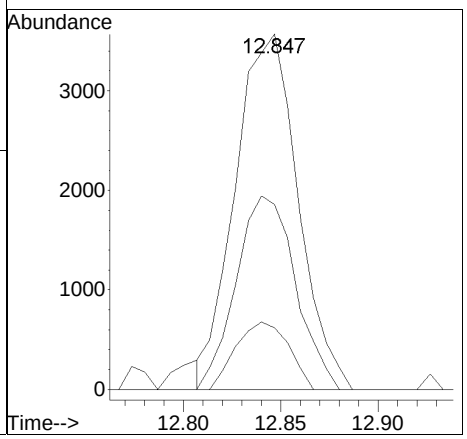


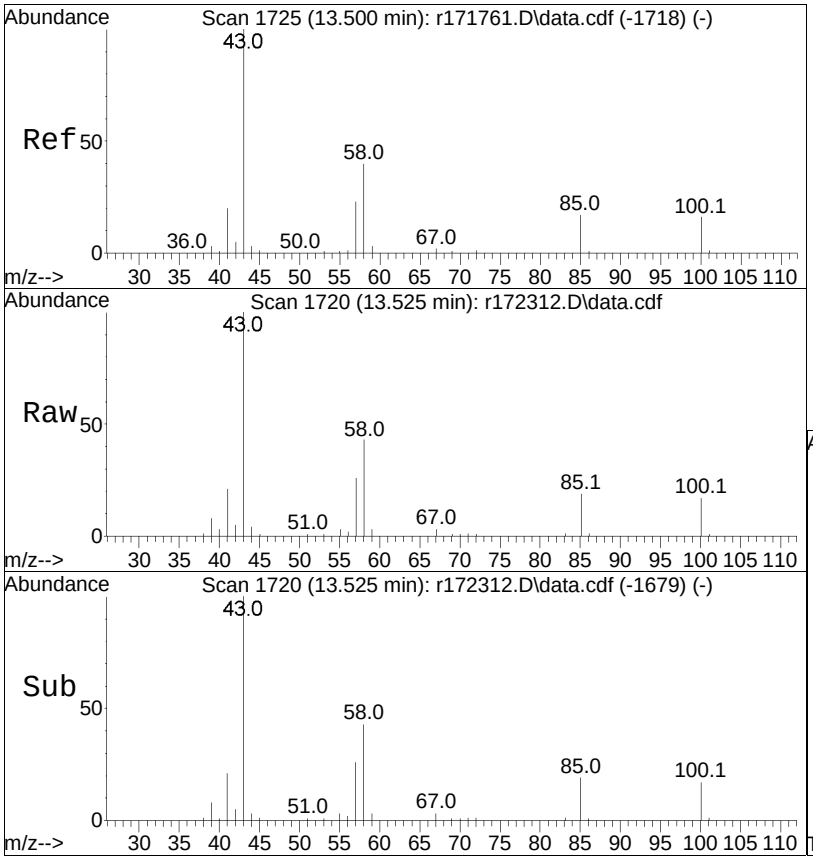


#62
heptane
Concen: 0.24 ppbV m
RT: 12.847 min Scan# 1630
Delta R.T. 0.020 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 43 Resp: 8020

Ion	Ratio	Lower	Upper
43	100		
57	52.1	38.0	57.0
100	17.3	13.8	20.6

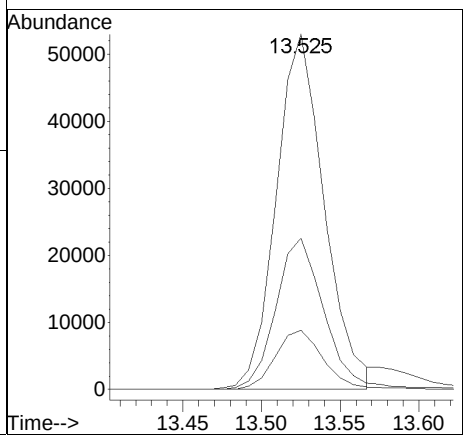


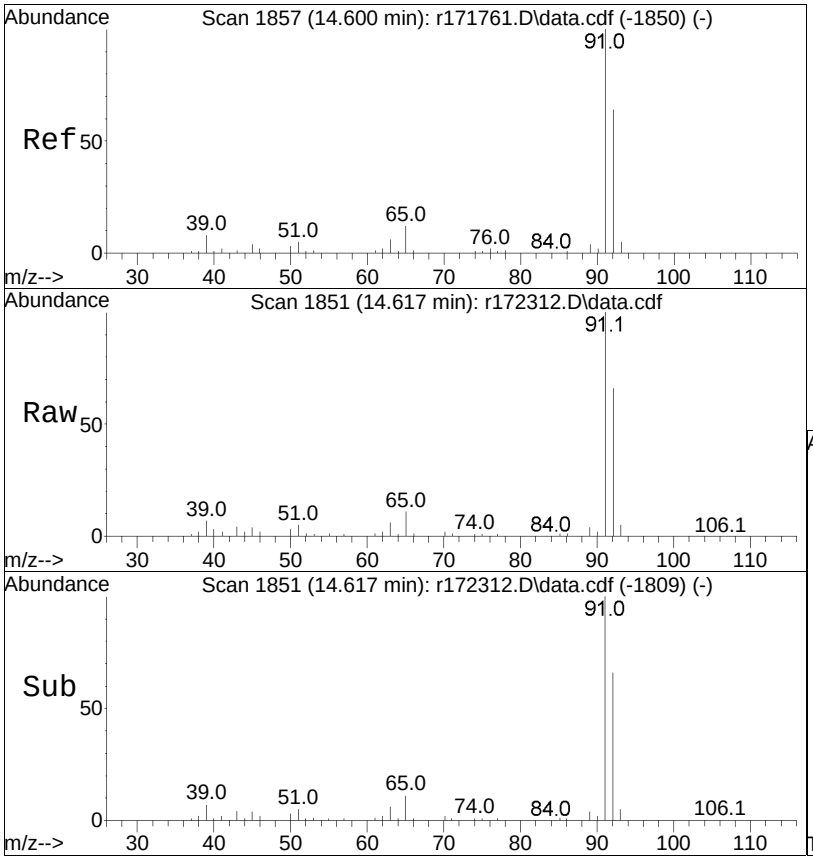


#64
4-methyl-2-pentanone
Concen: 3.04 ppbV m
RT: 13.525 min Scan# 1720
Delta R.T. 0.025 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 43 Resp: 112219

Ion	Ratio	Lower	Upper
43	100		
58	42.6	32.3	48.5
100	16.7	12.6	18.8

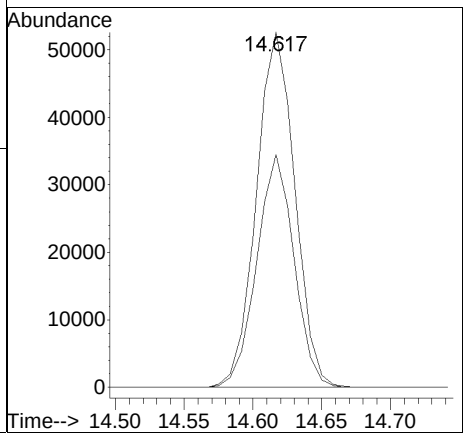


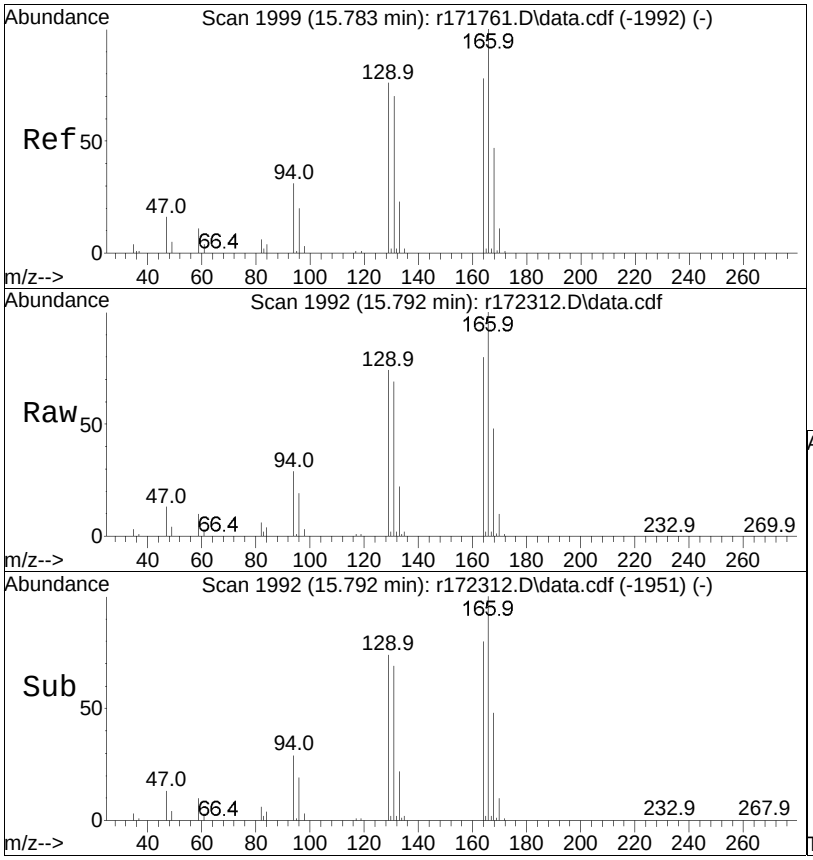


#68
toluene
Concen: 1.65 ppbV
RT: 14.617 min Scan# 1851
Delta R.T. 0.017 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 91 Resp: 102253

Ion	Ratio	Lower	Upper
91	100		
92	65.6	51.0	76.6

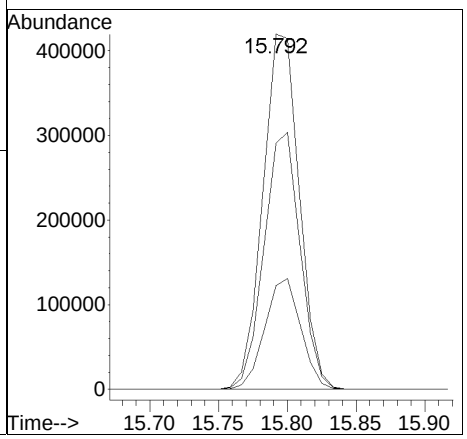


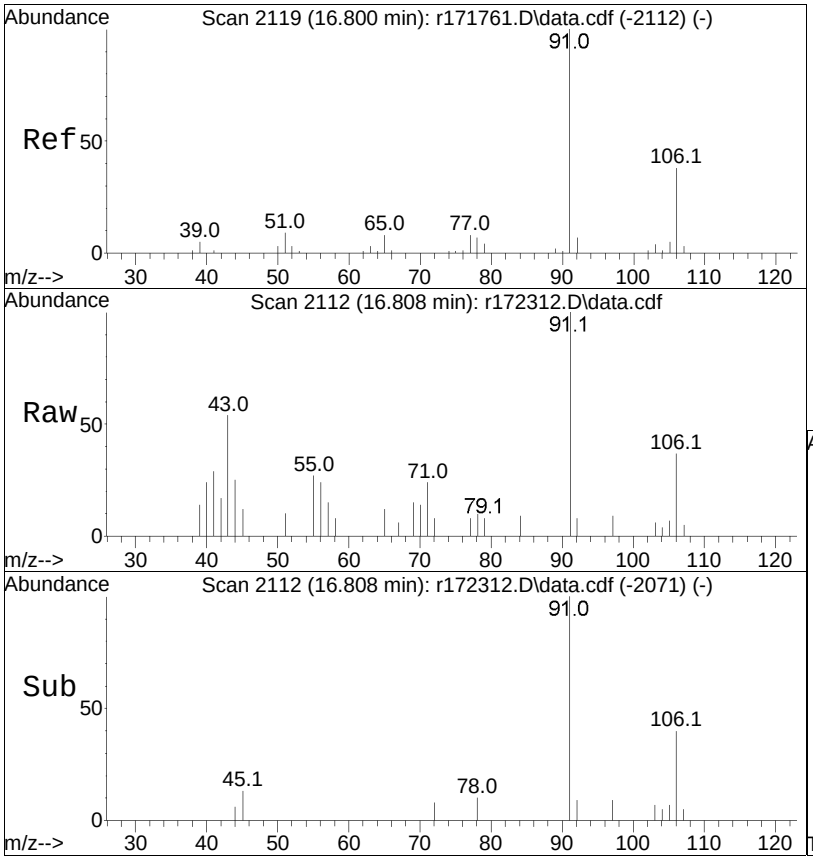


#78
tetrachloroethene
Concen: 29.22 ppbV
RT: 15.792 min Scan# 1992
Delta R.T. 0.008 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion:166 Resp: 776007

Ion	Ratio	Lower	Upper
166	100		
131	69.3	56.0	84.0
94	29.2	24.9	37.3

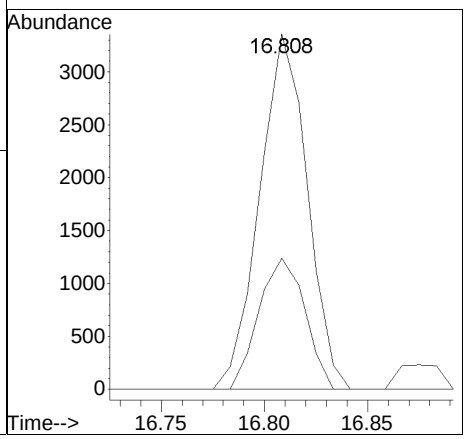


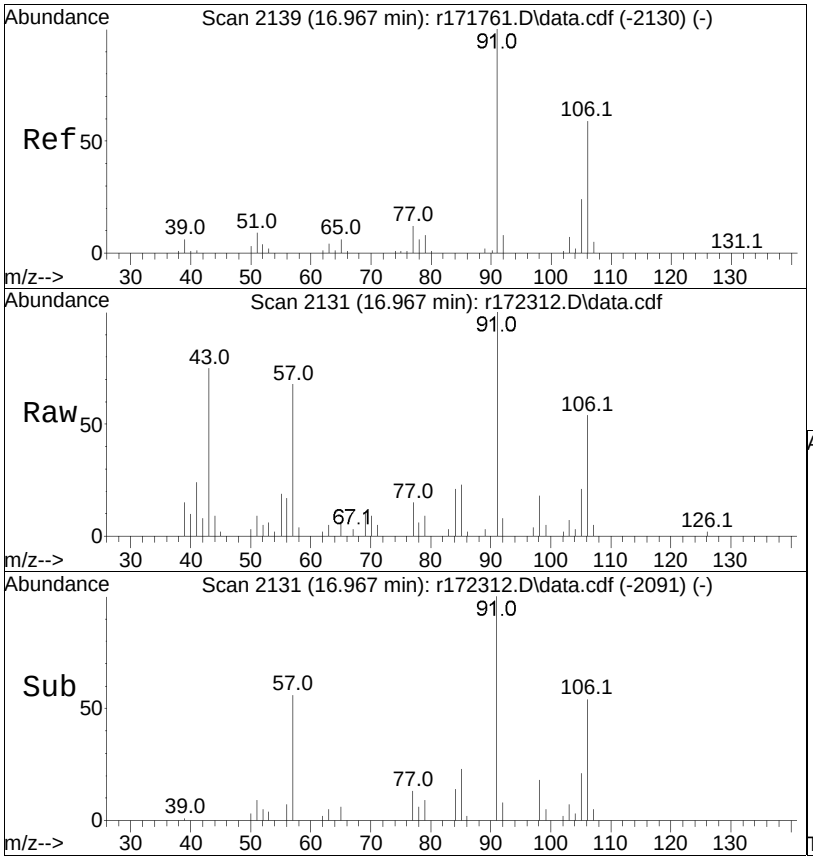


#81
ethylbenzene
Concen: 0.07 ppbV
RT: 16.808 min Scan# 2112
Delta R.T. 0.008 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 91 Resp: 5387

Ion	Ratio	Lower	Upper
91	100		
106	36.9	30.2	45.2

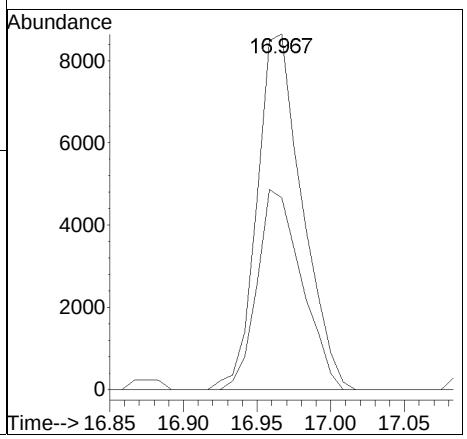


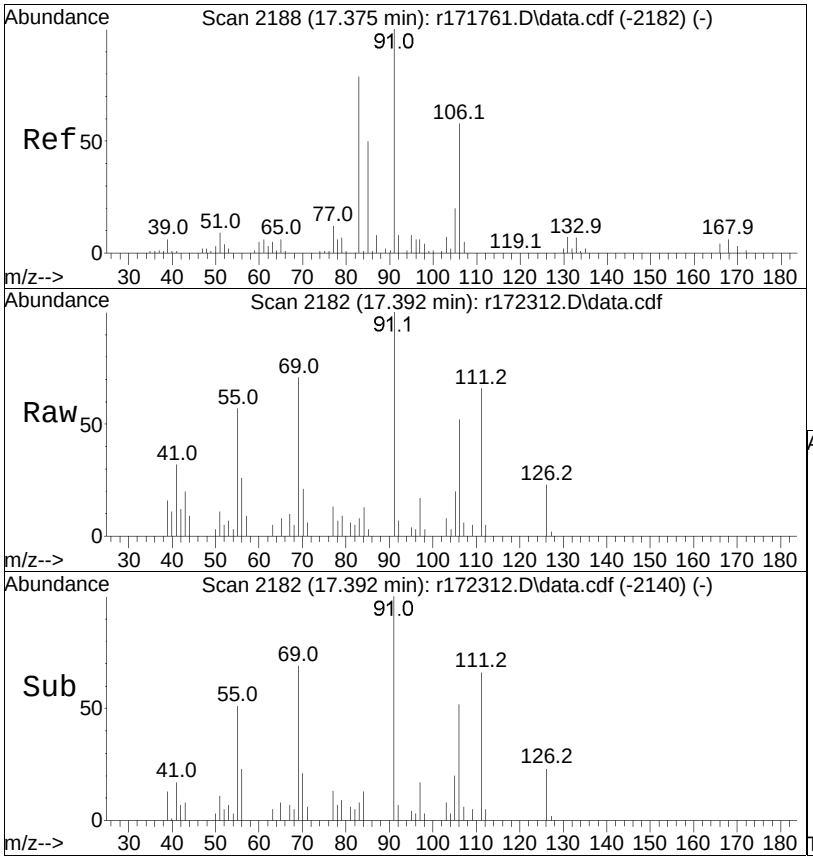


#83
m+p-xylene
Concen: 0.30 ppbV
RT: 16.967 min Scan# 2131
Delta R.T. 0.000 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 91 Resp: 18415

Ion	Ratio	Lower	Upper
91	100		
106	53.9	47.1	70.7

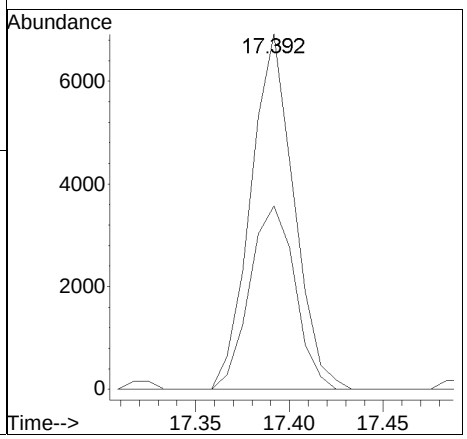


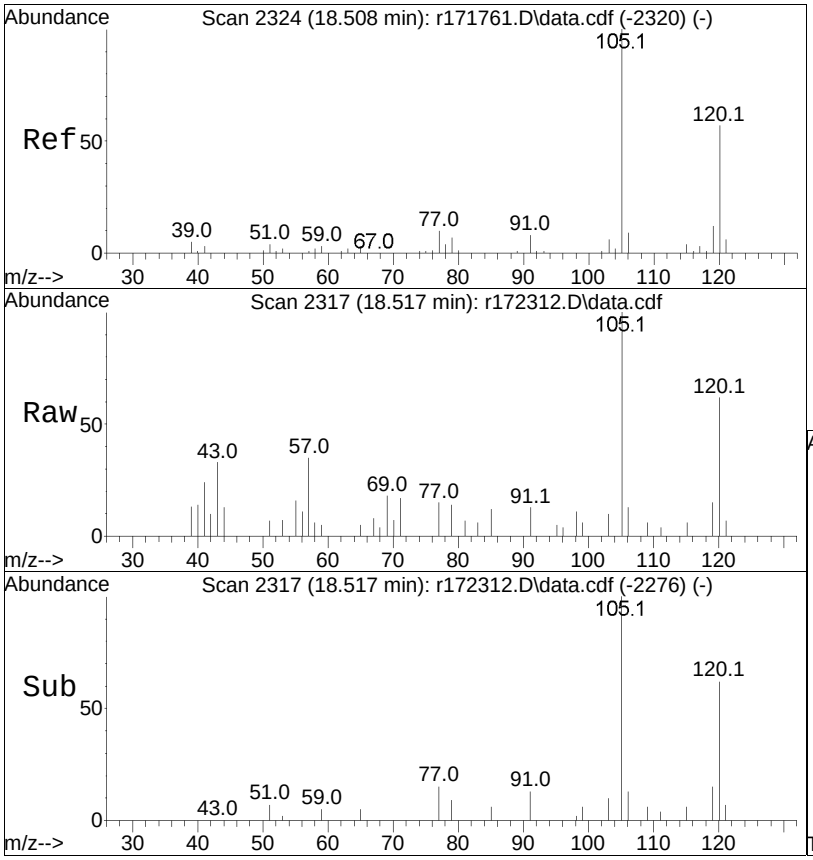


#87
o-xylene
Concen: 0.18 ppbV
RT: 17.392 min Scan# 2182
Delta R.T. 0.017 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion: 91 Resp: 11091

Ion	Ratio	Lower	Upper
91	100		
106	51.6	46.1	69.1

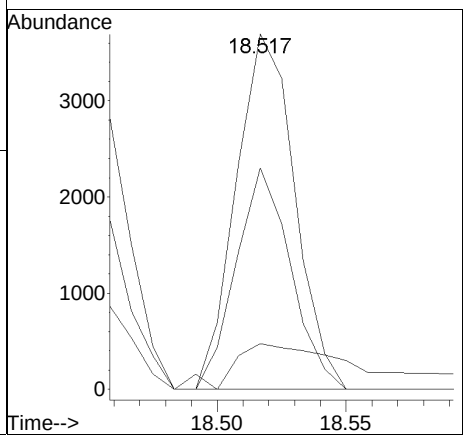


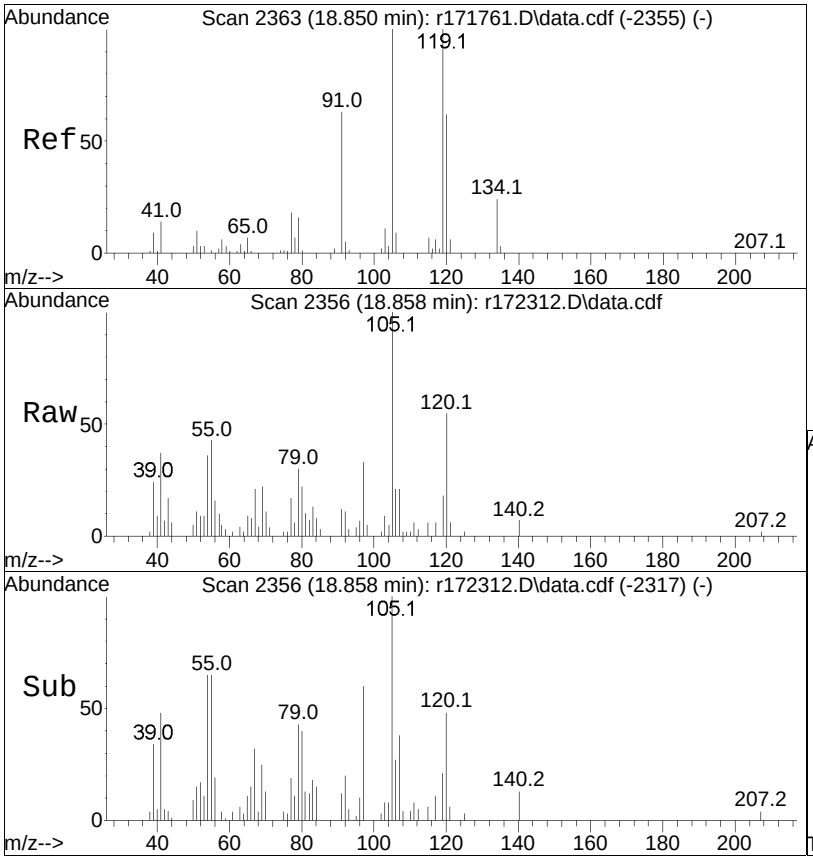


#97
1,3,5-trimethylbenzene
Concen: 0.07 ppbV
RT: 18.517 min Scan# 2317
Delta R.T. 0.008 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion:105 Resp: 5846

Ion	Ratio	Lower	Upper
105	100		
120	62.3	45.8	68.6
91	12.9	6.8	10.2#

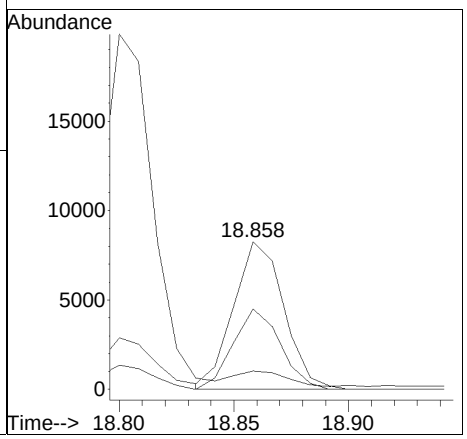




#99
1,2,4-trimethylbenzene
Concen: 0.18 ppbV
RT: 18.858 min Scan# 2356
Delta R.T. 0.008 min
Lab File: r172312.D
Acq: 17 Jun 2018 2:51 AM

Tgt Ion:105 Resp: 12630

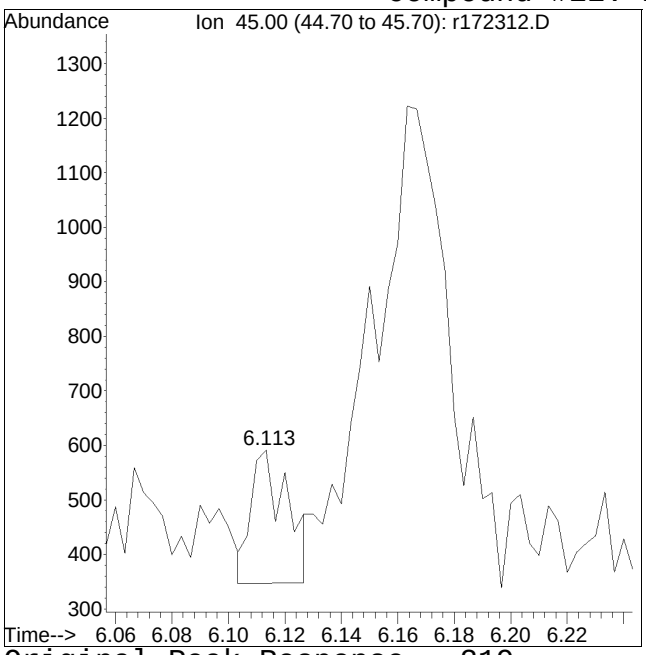
Ion	Ratio	Lower	Upper
105	100		
120	54.5	49.3	73.9
91	12.5	50.2	75.4#

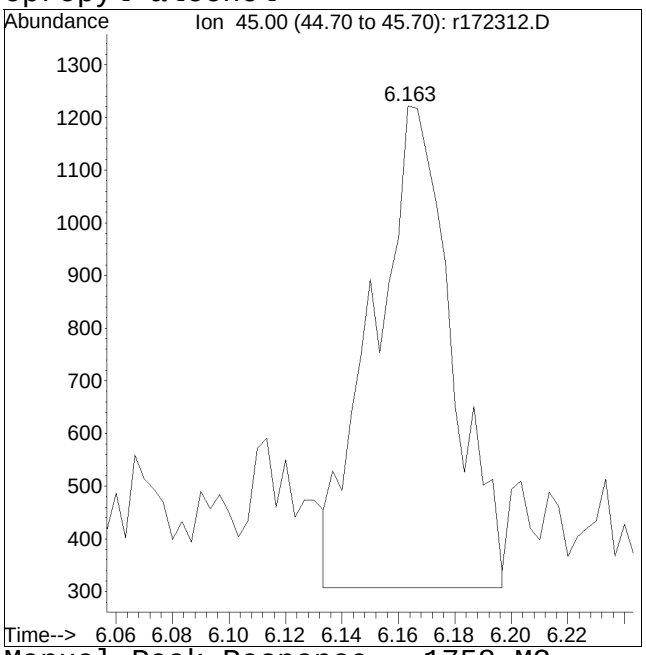


Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r172312.D Operator : AIRLAB17:MB
Date Inj'd : 6/17/2018 2:51 AM Instrument :
Sample : L1821916-02,3,250,250 Quant Date : 6/17/2018 7:40 am

Compound #22: isopropyl alcohol





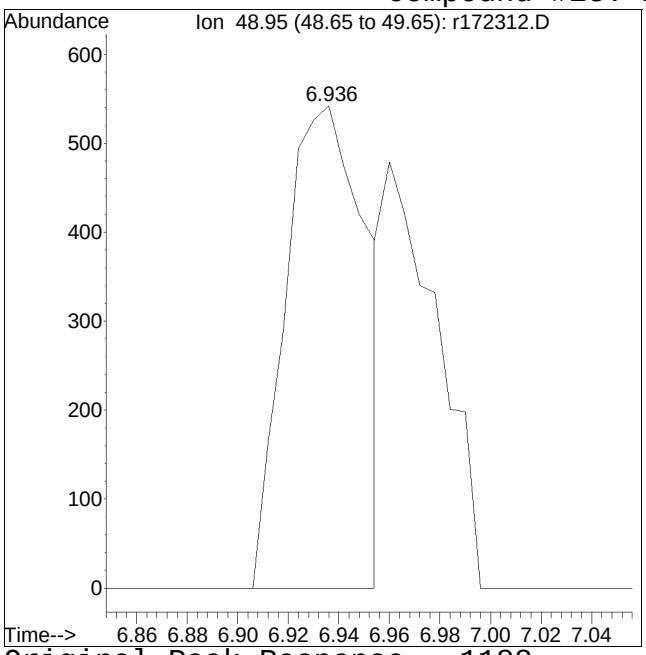
Original Peak Response = 219 Manual Peak Response = 1758 M3

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.

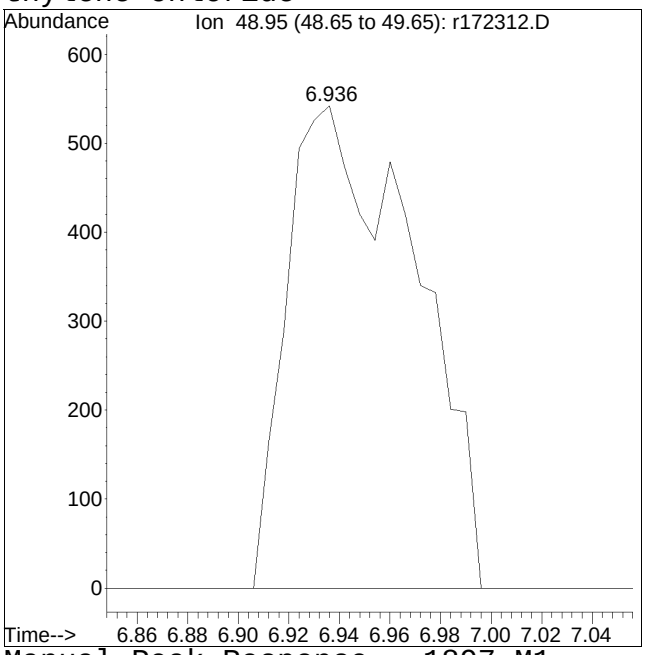
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r172312.D Operator : AIRLAB17:MB
Date Inj'd : 6/17/2018 2:51 AM Instrument :
Sample : L1821916-02,3,250,250 Quant Date : 6/17/2018 7:40 am

Compound #28: methylene chloride



Original Peak Response = 1188



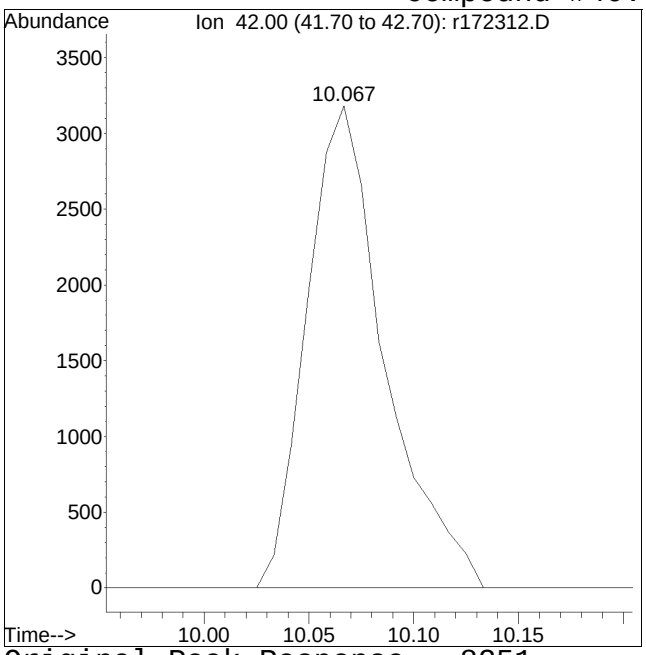
Manual Peak Response = 1897 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

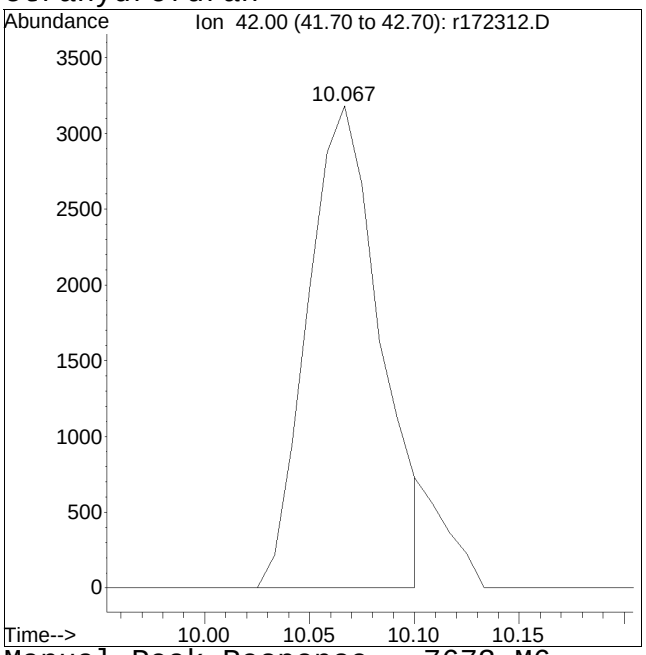
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r172312.D Operator : AIRLAB17:MB
Date Inj'd : 6/17/2018 2:51 AM Instrument :
Sample : L1821916-02,3,250,250 Quant Date : 6/17/2018 7:40 am

Compound #40: Tetrahydrofuran



Original Peak Response = 8251



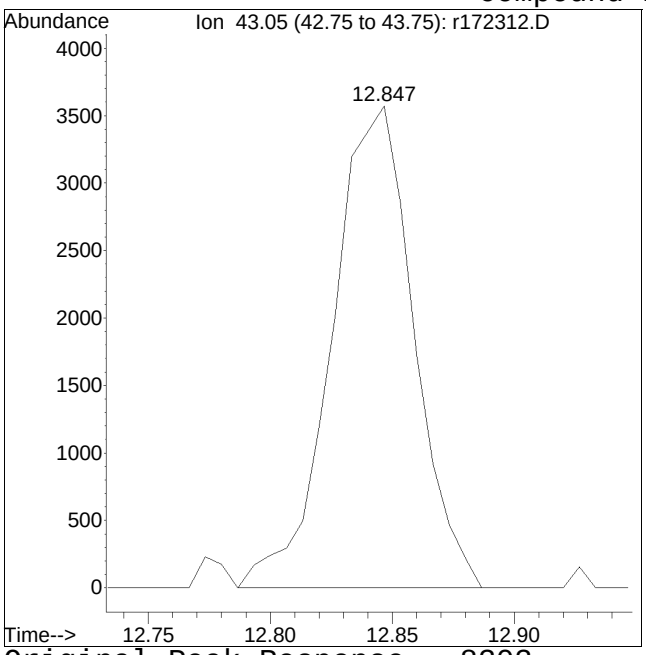
Manual Peak Response = 7673 M6

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

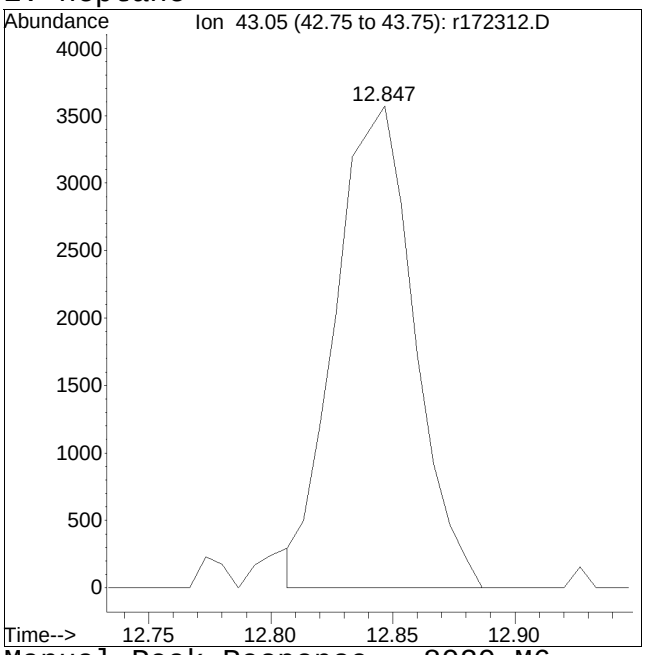
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r172312.D Operator : AIRLAB17:MB
Date Inj'd : 6/17/2018 2:51 AM Instrument :
Sample : L1821916-02,3,250,250 Quant Date : 6/17/2018 7:40 am

Compound #62: heptane



Original Peak Response = 8303



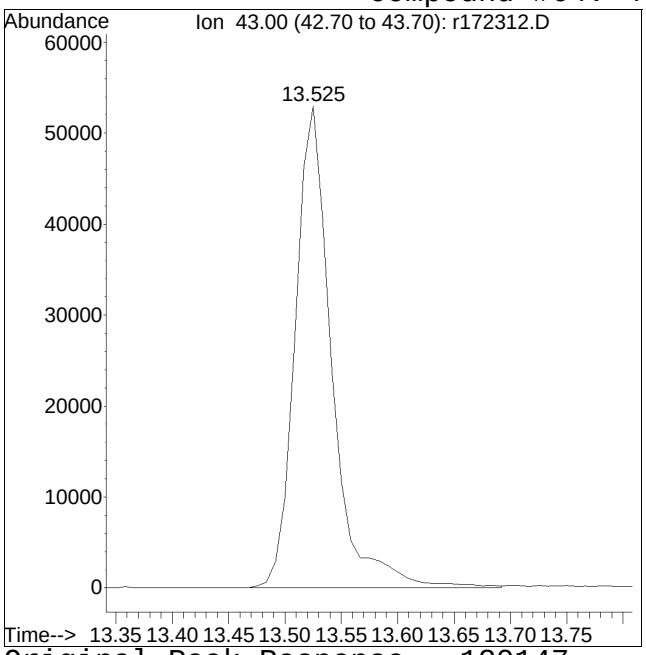
Manual Peak Response = 8020 M6

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

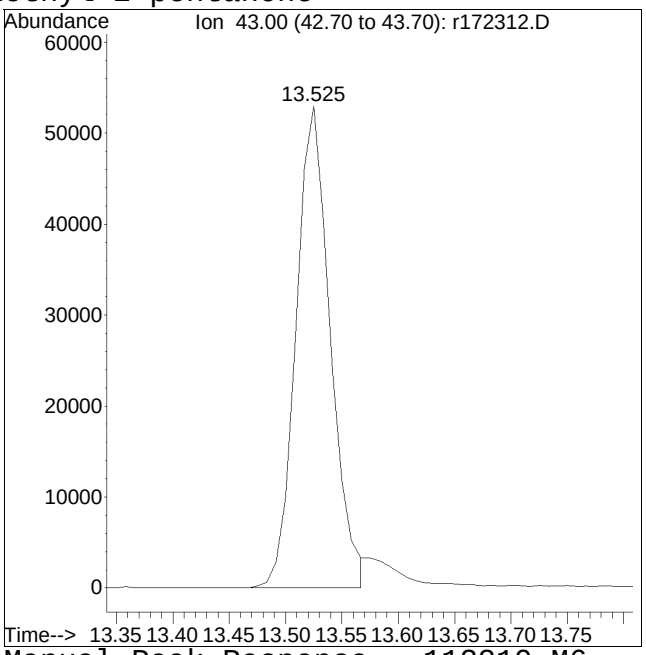
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r172312.D Operator : AIRLAB17:MB
Date Inj'd : 6/17/2018 2:51 AM Instrument :
Sample : L1821916-02,3,250,250 Quant Date : 6/17/2018 7:40 am

Compound #64: 4-methyl-2-pentanone



Original Peak Response = 120147



Manual Peak Response = 112219 M6

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

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6

Client	**: C.T. Male Associates**	**Lab Number**	**: L1821916**
Project Name	**: MASTER CLEANERS**	**Project Number**	**: 16.6345**
Instrument ID	**: AIRLAB17**	**Ical Ref**	**: ICAL14731**
Calibration dates	**: 05/21/18 17:00 05/21/18 21:35**		

Calibration Files
0.2 =r171757.D 0.5 =r171758.D 1.0 =r171759.D 5.0 =r171760.D 10 =r171761.D 20 =r171762.D
50 =r171763.D 100 =r171764.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoromethane	1.281	1.234	1.150	1.132	1.058	1.038	0.876	0.841	1.0764	14.59
3)		propylene	0.636	0.679	0.629	0.611	0.580	0.567	0.485	0.486	0.5841	11.97
4)		propane	0.960	0.865	0.835	0.802	0.742	0.715	0.590	0.567	0.7595	17.72
5)		dichlorodifluoromethane	1.524	1.428	1.331	1.304	1.200	1.193	1.000	0.933	1.2393	16.25
6)	C	chloromethane	0.777	0.749	0.683	0.674	0.622	0.625	0.519	0.490	0.6424	15.73
7)		Freon-114	2.191	1.998	1.904	1.840	1.706	1.703	1.325	1.106	1.7217	20.60
8)	C	methanol			0.298	0.283	0.266	0.262	0.215	0.201	0.2543	15.09
9)	C	vinyl chloride	0.895	0.822	0.783	0.758	0.717	0.747	0.643	0.626	0.7487	11.90
10)	C	1,3-butadiene	0.759	0.686	0.629	0.608	0.577	0.591	0.496	0.464	0.6012	15.88
11)		butane	1.232	1.142	1.083	1.058	0.996	0.994	0.811	0.762	1.0099	15.68
12)	C	acetaldehyde		0.494	0.456	0.287	0.262	0.368	0.272	0.223	0.3374	30.83#
13)	C	bromomethane	0.860	0.771	0.726	0.697	0.660	0.693	0.597	0.567	0.6963	13.41
14)	C	chloroethane	0.457	0.417	0.401	0.426	0.394	0.396	0.348	0.298	0.3922	12.50
15)		ethanol			0.521	0.509	0.489	0.490	0.394	0.342	0.4577	15.79
16)		dichlorofluoromethane	1.505	1.362	1.316	1.254	1.185	1.227	1.026	0.961	1.2296	14.34
17)	C	vinyl bromide	0.875	0.748	0.743	0.698	0.667	0.722	0.609	0.571	0.7043	13.27
18)	C	acrolein		0.380	0.351	0.331	0.323	0.344	0.297	0.285	0.3301	9.84
19)		acetone	1.206	1.059	1.031	0.704	0.667	0.908	0.697	0.591	0.8580	26.13
20)	C	acetonitrile	0.739	0.665	0.616	0.586	0.562	0.584	0.489	0.455	0.5871	15.45
21)		trichlorofluoromethane	1.341	1.230	1.173	1.121	1.059	1.126	0.932	0.874	1.1070	13.75
22)		isopropyl alcohol	1.410	1.180	1.140	0.854	0.834	1.131	0.924	0.807	1.0351	20.62
23)	C	acrylonitrile	0.722	0.643	0.619	0.590	0.566	0.612	0.518	0.478	0.5935	12.69
24)		pentane	1.447	1.352	1.293	1.229	1.178	1.234	0.997	0.932	1.2077	14.27
25)		ethyl ether	1.190	1.110	1.049	1.007	0.965	1.020	0.835	0.741	0.9897	14.60
26)	C	1,1-dichloroethene	1.174	1.025	0.978	0.938	0.895	0.957	0.801	0.744	0.9389	14.17
27)		tertiary butyl alcohol		1.024	0.991	0.949	0.930	1.015	0.900	0.880	0.9556	5.89
28)	C	methylene chloride		0.895	0.877	0.827	0.792	0.843	0.682	0.597	0.7876	13.88
29)	C	3-chloropropene	1.091	0.951	0.885	0.871	0.841	0.892	0.737	0.675	0.8679	14.60
30)	C	carbon disulfide	2.570	2.345	2.334	2.231	2.148	2.299	1.883	1.657	2.1834	13.21
31)		Freon 113	1.664	1.523	1.484	1.390	1.324	1.418	1.182	1.069	1.3819	13.73
32)		trans-1,2-dichloroethene	1.177	1.061	1.012	0.982	0.937	1.161	0.855	0.783	0.9960	13.86
33)	C	1,1-dichloroethane	1.644	1.326	1.273	1.238	1.179	1.471	1.079	1.138	1.2936	14.37
34)	C	MTBE	1.828	1.566	1.542	1.545	1.517	1.885	1.400	1.512	1.5992	10.45
35)	C	vinyl acetate	2.003	1.690	1.578	1.482	1.839	2.037	1.709	1.531	1.7336	12.08
36)	C	2-butanone	2.109	1.851	1.812	1.784	1.747	1.877	1.566	1.383	1.7661	12.23
37)		cis-1,2-dichloroethene	1.145	1.069	1.193	1.156	1.102	1.199	1.007	0.904	1.0969	9.23
38)		Ethyl Acetate	0.285	0.317	0.284	0.292	0.290	0.318	0.276	0.256	0.2897	7.05

Initial Calibration Summary
Form 6

Client	**: C.T. Male Associates**	**Lab Number**	**: L1821916**
Project Name	**: MASTER CLEANERS**	**Project Number**	**: 16.6345**
Instrument ID	**: AIRLAB17**	**Ical Ref**	**: ICAL14731**
Calibration dates	**: 05/21/18 17:00 05/21/18 21:35**		

Calibration Files
0.2 =r171757.D 0.5 =r171758.D 1.0 =r171759.D 5.0 =r171760.D 10 =r171761.D 20 =r171762.D
50 =r171763.D 100 =r171764.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
39)	C	chloroform	1.662	1.509	1.469	1.386	1.328	1.430	1.199	1.062	1.3807	13.51
40)		Tetrahydrofuran	0.986	0.960	0.974	1.090	1.080	1.166	0.971	0.852	1.0099	9.64
41)		2,2-dichloropropane	1.129	1.054	1.037	1.010	0.995	1.080	0.912	0.809	1.0033	10.08
42)	C	1,2-dichloroethane	0.917	0.862	0.830	0.792	0.755	0.810	0.677	0.615	0.7823	12.55
43)	I	1,4-difluorobenzene	----------ISTD----------									
44)	C	hexane	0.527	0.494	0.487	0.496	0.484	0.523	0.444	0.384	0.4799	9.66
45)		diisopropyl ether	0.243	0.241	0.233	0.250	0.247	0.269	0.238	0.220	0.2426	5.83
46)		tert-butyl ethyl ether	0.685	0.664	0.674	0.723	0.719	0.787	0.689	0.631	0.6966	6.76
47)	s	1,2-dichloroethane-D4	0.205	0.210	0.209	0.211	0.213	0.207	0.199	0.189	0.2055	3.91
48)	C	1,1,1-trichloroethane	0.468	0.424	0.404	0.400	0.390	0.428	0.366	0.331	0.4015	10.33
49)		1,1-dichloropropene	0.424	0.408	0.398	0.420	0.412	0.459	0.395	0.349	0.4081	7.61
50)	C	benzene	1.147	1.054	1.025	1.019	0.993	1.077	0.929	0.825	1.0086	9.66
51)		thiophene	0.784	0.759	0.760	0.532	0.518	0.826	0.718	0.636	0.6916	16.86
52)	C	carbon tetrachloride	0.443	0.406	0.397	0.388	0.382	0.420	0.362	0.324	0.3901	9.27
53)		cyclohexane	0.528	0.513	0.514	0.524	0.517	0.567	0.494	0.445	0.5127	6.68
54)		tert-amyl methyl ether	0.649	0.642	0.620	0.662	0.680	0.754	0.673	0.610	0.6611	6.74
55)		dibromomethane	0.359	0.326	0.308	0.297	0.285	0.315	0.270	0.236	0.2996	12.39
56)	C	1,2-dichloropropane	0.406	0.359	0.351	0.347	0.339	0.370	0.316	0.278	0.3457	10.94
57)		bromodichloromethane	0.584	0.527	0.516	0.514	0.500	0.552	0.473	0.419	0.5107	9.74
58)	C	1,4-dioxane	0.196	0.208	0.201	0.216	0.217	0.242	0.218	0.196	0.2118	7.22
59)	C	trichloroethene	0.456	0.414	0.410	0.408	0.395	0.439	0.388	0.347	0.4070	8.08
60)	C	2,2,4-trimethylpentane	1.727	1.673	1.678	1.618	1.582	1.668	1.425	1.217	1.5734	10.87
61)		methyl methacrylate	0.411	0.435	0.459	0.334	0.334	0.543	0.452	0.387	0.4195	16.57
62)		heptane	0.645	0.645	0.654	0.654	0.640	0.666	0.548	0.451	0.6127	12.25
63)	C	cis-1,3-dichloropropene	0.458	0.447	0.433	0.478	0.481	0.540	0.466	0.414	0.4646	8.13
64)	C	4-methyl-2-pentanone	0.617	0.664	0.683	0.723	0.714	0.769	0.658	0.546	0.6714	10.24
65)		trans-1,3-dichloropropene	0.394	0.387	0.395	0.434	0.437	0.494	0.428	0.382	0.4188	8.98
66)	C	1,1,2-trichloroethane	0.473	0.414	0.404	0.396	0.383	0.424	0.366	0.327	0.3984	10.78
67)	I	chlorobenzene-D5	----------ISTD----------									
68)	C	toluene	8.879	8.173	8.081	7.811	7.612	8.400	7.390	6.711	7.8819	8.42
69)	s	toluene-D8	6.582	6.628	6.651	6.563	6.568	6.670	6.706	6.931	6.6624	1.80
70)		2-methylthiophene	8.435	8.377	8.433	5.402	5.247	8.885	7.701	6.950	7.4289	19.18
71)		1,3-dichloropropane	4.296	3.958	3.931	3.786	3.641	4.030	3.513	3.104	3.7823	9.64
72)		2-hexanone	4.277	4.459	4.495	4.606	4.484	4.753	4.072	3.497	4.3305	9.10
73)		3-methylthiophene	8.440	8.319	8.371	5.614	5.522	9.103	7.890	6.920	7.5225	18.00
74)		dibromochloromethane	4.110	3.752	3.674	3.679	3.566	4.013	3.491	3.138	3.6778	8.25
75)	C	1,2-dibromoethane	4.634	4.251	4.131	4.079	3.945	4.410	3.889	3.440	4.0974	8.80
76)		butyl acetate	0.601	0.702	0.733	0.872	0.882	0.987	0.910	0.841	0.8158	15.52

Initial Calibration Summary
Form 6

Client	**: C.T. Male Associates**	**Lab Number**	**: L1821916**
Project Name	**: MASTER CLEANERS**	**Project Number**	**: 16.6345**
Instrument ID	**: AIRLAB17**	**Ical Ref**	**: ICAL14731**
Calibration dates	**: 05/21/18 17:00 05/21/18 21:35**		

Calibration Files
0.2 =r171757.D 0.5 =r171758.D 1.0 =r171759.D 5.0 =r171760.D 10 =r171761.D 20 =r171762.D
50 =r171763.D 100 =r171764.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
77)		octane	2.761	2.912	2.969	2.992	2.913	3.205	2.867	2.622	2.9053	5.88
78)	C	tetrachloroethene	3.812	3.550	3.489	3.294	3.162	3.587	3.174	2.892	3.3700	8.72
79)		1,1,1,2-tetrachloroethane	3.037	2.884	2.859	2.750	2.704	3.028	2.638	2.272	2.7715	8.93
80)	C	chlorobenzene	7.896	7.366	7.101	6.842	6.699	7.332	6.415	5.483	6.8917	10.58
81)	C	ethylbenzene	0.950	0.937	0.965	0.996	0.980	1.067	0.940	0.814	0.9561	7.44
82)		2-ethylthiophene	8.635	8.900	9.160	6.384	6.200	9.653	8.357	7.222	8.0641	16.13
83)	C	m+p-xylene	8.306	8.374	8.279	8.250	7.980	8.435	7.265	6.012	7.8625	10.65
84)	C	bromoform	3.457	3.390	3.267	3.352	3.252	3.685	3.333	2.863	3.3248	6.95
85)	C	styrene	6.364	6.406	6.746	7.093	6.970	7.551	6.763	6.063	6.7445	6.97
86)	C	1,1,2,2-tetrachloroethane	6.444	6.141	6.225	6.267	6.031	6.205	5.109	3.885	5.7884	15.02
87)	C	o-xylene	8.150	8.203	8.270	8.322	7.963	8.348	7.027	5.621	7.7380	12.38
88)		1,2,3-trichloropropane	4.827	4.699	4.801	4.721	4.527	4.738	4.179	3.653	4.5181	9.01
89)		nonane	6.344	6.795	7.045	6.988	6.645	6.615	5.396	4.242	6.2589	15.43
90)	s	bromofluorobenzene	4.256	4.333	4.173	4.171	4.053	4.121	4.137	4.179	4.1780	2.04
91)	C	isopropylbenzene	1.074	1.110	1.143	1.146	1.103	1.162	1.013	0.856	1.0757	9.38
92)		bromobenzene	6.414	6.222	6.051	5.984	5.792	6.062	5.377	4.575	5.8096	10.08
93)		2-chlorotoluene	3.053	3.098	3.095	3.254	3.209	3.431	3.135	2.847	3.1405	5.38
94)		n-propylbenzene	3.118	3.386	3.835	3.862	3.830	4.025	3.651	3.288	3.6242	8.91
95)		4-chlorotoluene	2.989	3.178	3.228	3.237	3.188	3.356	3.087	2.799	3.1328	5.52
96)		4-ethyl toluene	0.969	1.051	1.196	1.256	1.215	1.255	1.083	0.917	1.1179	11.79
97)		1,3,5-trimethylbenzene	0.887	0.910	1.006	1.203	1.160	1.169	1.021	0.857	1.0267	13.36
98)		tert-butylbenzene	0.869	0.926	1.016	1.090	1.054	1.055	0.863	0.681	0.9443	14.60
99)		1,2,4-trimethylbenzene	0.782	0.844	0.958	1.048	1.016	0.993	0.810	0.635	0.8858	16.02
100)		decane	5.498	6.362	6.783	7.503	7.341	7.398	6.321	5.183	6.5485	13.38
101)	C	Benzyl Chloride	4.021	4.450	5.031	6.534	6.697	7.081	6.457	5.494	5.7205	19.87
102)		1,3-dichlorobenzene	5.057	5.555	6.085	6.393	6.161	6.396	5.703	4.928	5.7846	9.90
103)	C	1,4-dichlorobenzene	4.922	5.526	5.993	6.323	6.213	6.292	5.722	4.999	5.7487	9.75
104)		sec-butylbenzene	1.260	1.311	1.383	1.496	1.452	1.448	1.226	1.014	1.3237	11.94
105)		1,2,3-trimethylbenzene	0.925	0.996	1.085	0.801	0.771	1.105	0.887	0.690	0.9074	16.48
106)		p-isopropyltoluene	1.040	1.115	1.176	1.271	1.231	1.254	0.989	0.759	1.1043	15.62
107)		1,2-dichlorobenzene	4.888	5.028	5.511	5.952	5.786	5.869	5.357	4.830	5.4026	8.32
108)		n-butylbenzene	0.772	0.841	0.891	1.025	1.020	1.019	0.875	0.746	0.8985	12.50
109)		indan	1.115	1.171	1.330	0.932	0.902	1.310	1.103	0.906	1.0961	15.69
110)		indene	6.895	7.383	8.575	6.925	6.824	9.358	8.350	7.212	7.6904	12.33
111)	C	1,2-dibromo-3-chloropropane	1.928	1.973	2.101	2.321	2.311	2.274	2.051	1.850	2.1013	8.71
112)		undecane	5.445	5.812	6.575	7.848	7.931	7.613	6.453	5.228	6.6133	16.38
113)		1,2,4,5-tetramethylbenzene	6.475	7.257	8.113	8.948	9.253	9.961	8.961	7.802	8.3461	13.74
114)		dodecane	4.274	5.278	6.117	8.494	8.498	6.940	6.090	5.086	6.3472	24.36

Initial Calibration Summary
Form 6

Client	**: C.T. Male Associates**	**Lab Number**	**: L1821916**
Project Name	**: MASTER CLEANERS**	**Project Number**	**: 16.6345**
Instrument ID	**: AIRLAB17**	**Ical Ref**	**: ICAL14731**
Calibration dates	**: 05/21/18 17:00 05/21/18 21:35**		

Calibration Files
0.2 =r171757.D 0.5 =r171758.D 1.0 =r171759.D 5.0 =r171760.D 10 =r171761.D 20 =r171762.D
50 =r171763.D 100 =r171764.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
115) C	1,2,4-trichlorobenzene	2.522	2.658	3.081	4.348	4.710	4.648	4.426	4.225	3.8273	23.92
116)	naphthalene	0.770	0.861	0.973	1.227	1.296	1.200	1.117	1.045	1.0609	17.38
117)	1,2,3-trichlorobenzene	2.800	2.903	3.204	4.441	4.595	4.318	4.164	3.967	3.7990	18.95
118)	benzothiophene	0.705	0.842	0.982	1.053	1.109	1.352	1.262	1.142	1.0559	20.08
119) C	hexachlorobutadiene	3.532	3.478	3.486	4.098	4.149	3.776	3.452	3.060	3.6288	9.99
120)	2-methylnaphthalene			1.891	2.176	2.548	3.327	3.581	3.769	2.8821	27.16
121)	1-methylnaphthalene			3.151	3.446	3.858	4.591	4.752	4.783	4.0969	17.33

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Method File : TALL180521.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue May 22 12:38:49 2018
Response Via : Initial Calibration

Calibration Files
0.2 =r171757.D 0.5 =r171758.D 1.0 =r171759.D 5.0 =r171760.D 10 =r171761.D 20 =r171762.D
50 =r171763.D 100 =r171764.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoromethane	1.281	1.234	1.150	1.132	1.058	1.038	0.876	0.841	1.0764	14.59
3)		propylene	0.636	0.679	0.629	0.611	0.580	0.567	0.485	0.486	0.5841	11.97
4)		propane	0.960	0.865	0.835	0.802	0.742	0.715	0.590	0.567	0.7595	17.72
5)		dichlorodifluoromethane	1.524	1.428	1.331	1.304	1.200	1.193	1.000	0.933	1.2393	16.25
6)	C	chloromethane	0.777	0.749	0.683	0.674	0.622	0.625	0.519	0.490	0.6424	15.73
7)		Freon-114	2.191	1.998	1.904	1.840	1.706	1.703	1.325	1.106	1.7217	20.60
8)	C	methanol			0.298	0.283	0.266	0.262	0.215	0.201	0.2543	15.09
9)	C	vinyl chloride	0.895	0.822	0.783	0.758	0.717	0.747	0.643	0.626	0.7487	11.90
10)	C	1,3-butadiene	0.759	0.686	0.629	0.608	0.577	0.591	0.496	0.464	0.6012	15.88
11)		butane	1.232	1.142	1.083	1.058	0.996	0.994	0.811	0.762	1.0099	15.68
12)	C	acetaldehyde		0.494	0.456	0.287	0.262	0.368	0.272	0.223	0.3374	30.83#
13)	C	bromomethane	0.860	0.771	0.726	0.697	0.660	0.693	0.597	0.567	0.6963	13.41
14)	C	chloroethane	0.457	0.417	0.401	0.426	0.394	0.396	0.348	0.298	0.3922	12.50
15)		ethanol			0.521	0.509	0.489	0.490	0.394	0.342	0.4577	15.79
16)		dichlorofluoromethane	1.505	1.362	1.316	1.254	1.185	1.227	1.026	0.961	1.2296	14.34
17)	C	vinyl bromide	0.875	0.748	0.743	0.698	0.667	0.722	0.609	0.571	0.7043	13.27
18)	C	acrolein		0.380	0.351	0.331	0.323	0.344	0.297	0.285	0.3301	9.84
19)		acetone	1.206	1.059	1.031	0.704	0.667	0.908	0.697	0.591	0.8580	26.13
20)	C	acetonitrile	0.739	0.665	0.616	0.586	0.562	0.584	0.489	0.455	0.5871	15.45
21)		trichlorofluoromethane	1.341	1.230	1.173	1.121	1.059	1.126	0.932	0.874	1.1070	13.75
22)		isopropyl alcohol	1.410	1.180	1.140	0.854	0.834	1.131	0.924	0.807	1.0351	20.62
23)	C	acrylonitrile	0.722	0.643	0.619	0.590	0.566	0.612	0.518	0.478	0.5935	12.69
24)		pentane	1.447	1.352	1.293	1.229	1.178	1.234	0.997	0.932	1.2077	14.27
25)		ethyl ether	1.190	1.110	1.049	1.007	0.965	1.020	0.835	0.741	0.9897	14.60
26)	C	1,1-dichloroethene	1.174	1.025	0.978	0.938	0.895	0.957	0.801	0.744	0.9389	14.17
27)		tertiary butyl alcohol		1.024	0.991	0.949	0.930	1.015	0.900	0.880	0.9556	5.89
28)	C	methylene chloride		0.895	0.877	0.827	0.792	0.843	0.682	0.597	0.7876	13.88
29)	C	3-chloropropene	1.091	0.951	0.885	0.871	0.841	0.892	0.737	0.675	0.8679	14.60
30)	C	carbon disulfide	2.570	2.345	2.334	2.231	2.148	2.299	1.883	1.657	2.1834	13.21
31)		Freon 113	1.664	1.523	1.484	1.390	1.324	1.418	1.182	1.069	1.3819	13.73

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Method File : TALL180521.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue May 22 12:38:49 2018
Response Via : Initial Calibration

Calibration Files
0.2 =r171757.D 0.5 =r171758.D 1.0 =r171759.D 5.0 =r171760.D 10 =r171761.D 20 =r171762.D
50 =r171763.D 100 =r171764.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32)		trans-1,2-dichloroethene	1.177	1.061	1.012	0.982	0.937	1.161	0.855	0.783	0.9960	13.86
33)	C	1,1-dichloroethane	1.644	1.326	1.273	1.238	1.179	1.471	1.079	1.138	1.2936	14.37
34)	C	MTBE	1.828	1.566	1.542	1.545	1.517	1.885	1.400	1.512	1.5992	10.45
35)	C	vinyl acetate	2.003	1.690	1.578	1.482	1.839	2.037	1.709	1.531	1.7336	12.08
36)	C	2-butanone	2.109	1.851	1.812	1.784	1.747	1.877	1.566	1.383	1.7661	12.23
37)		cis-1,2-dichloroethene	1.145	1.069	1.193	1.156	1.102	1.199	1.007	0.904	1.0969	9.23
38)		Ethyl Acetate	0.285	0.317	0.284	0.292	0.290	0.318	0.276	0.256	0.2897	7.05
39)	C	chloroform	1.662	1.509	1.469	1.386	1.328	1.430	1.199	1.062	1.3807	13.51
40)		Tetrahydrofuran	0.986	0.960	0.974	1.090	1.080	1.166	0.971	0.852	1.0099	9.64
41)		2,2-dichloropropane	1.129	1.054	1.037	1.010	0.995	1.080	0.912	0.809	1.0033	10.08
42)	C	1,2-dichloroethane	0.917	0.862	0.830	0.792	0.755	0.810	0.677	0.615	0.7823	12.55
43)	I	1,4-difluorobenzene	ISTD									
44)	C	hexane	0.527	0.494	0.487	0.496	0.484	0.523	0.444	0.384	0.4799	9.66
45)		diisopropyl ether	0.243	0.241	0.233	0.250	0.247	0.269	0.238	0.220	0.2426	5.83
46)		tert-butyl ethyl ether	0.685	0.664	0.674	0.723	0.719	0.787	0.689	0.631	0.6966	6.76
47)	s	1,2-dichloroethane-D4	0.205	0.210	0.209	0.211	0.213	0.207	0.199	0.189	0.2055	3.91
48)	C	1,1,1-trichloroethane	0.468	0.424	0.404	0.400	0.390	0.428	0.366	0.331	0.4015	10.33
49)		1,1-dichloropropene	0.424	0.408	0.398	0.420	0.412	0.459	0.395	0.349	0.4081	7.61
50)	C	benzene	1.147	1.054	1.025	1.019	0.993	1.077	0.929	0.825	1.0086	9.66
51)		thiophene	0.784	0.759	0.760	0.532	0.518	0.826	0.718	0.636	0.6916	16.86
52)	C	carbon tetrachloride	0.443	0.406	0.397	0.388	0.382	0.420	0.362	0.324	0.3901	9.27
53)		cyclohexane	0.528	0.513	0.514	0.524	0.517	0.567	0.494	0.445	0.5127	6.68
54)		tert-amyl methyl ether	0.649	0.642	0.620	0.662	0.680	0.754	0.673	0.610	0.6611	6.74
55)		dibromomethane	0.359	0.326	0.308	0.297	0.285	0.315	0.270	0.236	0.2996	12.39
56)	C	1,2-dichloropropane	0.406	0.359	0.351	0.347	0.339	0.370	0.316	0.278	0.3457	10.94
57)		bromodichloromethane	0.584	0.527	0.516	0.514	0.500	0.552	0.473	0.419	0.5107	9.74
58)	C	1,4-dioxane	0.196	0.208	0.201	0.216	0.217	0.242	0.218	0.196	0.2118	7.22
59)	C	trichloroethene	0.456	0.414	0.410	0.408	0.395	0.439	0.388	0.347	0.4070	8.08
60)	C	2,2,4-trimethylpentane	1.727	1.673	1.678	1.618	1.582	1.668	1.425	1.217	1.5734	10.87
61)		methyl methacrylate	0.411	0.435	0.459	0.334	0.334	0.543	0.452	0.387	0.4195	16.57
62)		heptane	0.645	0.645	0.654	0.654	0.640	0.666	0.548	0.451	0.6127	12.25

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Method File : TALL180521.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue May 22 12:38:49 2018
Response Via : Initial Calibration

Calibration Files
0.2 =r171757.D 0.5 =r171758.D 1.0 =r171759.D 5.0 =r171760.D 10 =r171761.D 20 =r171762.D
50 =r171763.D 100 =r171764.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63)	C	cis-1,3-dichloropropene	0.458	0.447	0.433	0.478	0.481	0.540	0.466	0.414	0.4646	8.13
64)	C	4-methyl-2-pentanone	0.617	0.664	0.683	0.723	0.714	0.769	0.658	0.546	0.6714	10.24
65)		trans-1,3-dichloropropene	0.394	0.387	0.395	0.434	0.437	0.494	0.428	0.382	0.4188	8.98
66)	C	1,1,2-trichloroethane	0.473	0.414	0.404	0.396	0.383	0.424	0.366	0.327	0.3984	10.78
67)	I	chlorobenzene-D5	ISTD									
68)	C	toluene	8.879	8.173	8.081	7.811	7.612	8.400	7.390	6.711	7.8819	8.42
69)	s	toluene-D8	6.582	6.628	6.651	6.563	6.568	6.670	6.706	6.931	6.6624	1.80
70)		2-methylthiophene	8.435	8.377	8.433	5.402	5.247	8.885	7.701	6.950	7.4289	19.18
71)		1,3-dichloropropane	4.296	3.958	3.931	3.786	3.641	4.030	3.513	3.104	3.7823	9.64
72)		2-hexanone	4.277	4.459	4.495	4.606	4.484	4.753	4.072	3.497	4.3305	9.10
73)		3-methylthiophene	8.440	8.319	8.371	5.614	5.522	9.103	7.890	6.920	7.5225	18.00
74)		dibromochloromethane	4.110	3.752	3.674	3.679	3.566	4.013	3.491	3.138	3.6778	8.25
75)	C	1,2-dibromoethane	4.634	4.251	4.131	4.079	3.945	4.410	3.889	3.440	4.0974	8.80
76)		butyl acetate	0.601	0.702	0.733	0.872	0.882	0.987	0.910	0.841	0.8158	15.52
77)		octane	2.761	2.912	2.969	2.992	2.913	3.205	2.867	2.622	2.9053	5.88
78)	C	tetrachloroethene	3.812	3.550	3.489	3.294	3.162	3.587	3.174	2.892	3.3700	8.72
79)		1,1,1,2-tetrachloroethane	3.037	2.884	2.859	2.750	2.704	3.028	2.638	2.272	2.7715	8.93
80)	C	chlorobenzene	7.896	7.366	7.101	6.842	6.699	7.332	6.415	5.483	6.8917	10.58
81)	C	ethylbenzene	0.950	0.937	0.965	0.996	0.980	1.067	0.940	0.814	0.9561	7.44
82)		2-ethylthiophene	8.635	8.900	9.160	6.384	6.200	9.653	8.357	7.222	8.0641	16.13
83)	C	m+p-xylene	8.306	8.374	8.279	8.250	7.980	8.435	7.265	6.012	7.8625	10.65
84)	C	bromoform	3.457	3.390	3.267	3.352	3.252	3.685	3.333	2.863	3.3248	6.95
85)	C	styrene	6.364	6.406	6.746	7.093	6.970	7.551	6.763	6.063	6.7445	6.97
86)	C	1,1,2,2-tetrachloroethane	6.444	6.141	6.225	6.267	6.031	6.205	5.109	3.885	5.7884	15.02
87)	C	o-xylene	8.150	8.203	8.270	8.322	7.963	8.348	7.027	5.621	7.7380	12.38
88)		1,2,3-trichloropropane	4.827	4.699	4.801	4.721	4.527	4.738	4.179	3.653	4.5181	9.01
89)		nonane	6.344	6.795	7.045	6.988	6.645	6.615	5.396	4.242	6.2589	15.43
90)	s	bromofluorobenzene	4.256	4.333	4.173	4.171	4.053	4.121	4.137	4.179	4.1780	2.04
91)	C	isopropylbenzene	1.074	1.110	1.143	1.146	1.103	1.162	1.013	0.856	1.0757	9.38
92)		bromobenzene	6.414	6.222	6.051	5.984	5.792	6.062	5.377	4.575	5.8096	10.08
93)		2-chlorotoluene	3.053	3.098	3.095	3.254	3.209	3.431	3.135	2.847	3.1405	5.38

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Method File : TALL180521.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue May 22 12:38:49 2018
Response Via : Initial Calibration

Calibration Files
0.2 =r171757.D 0.5 =r171758.D 1.0 =r171759.D 5.0 =r171760.D 10 =r171761.D 20 =r171762.D
50 =r171763.D 100 =r171764.D

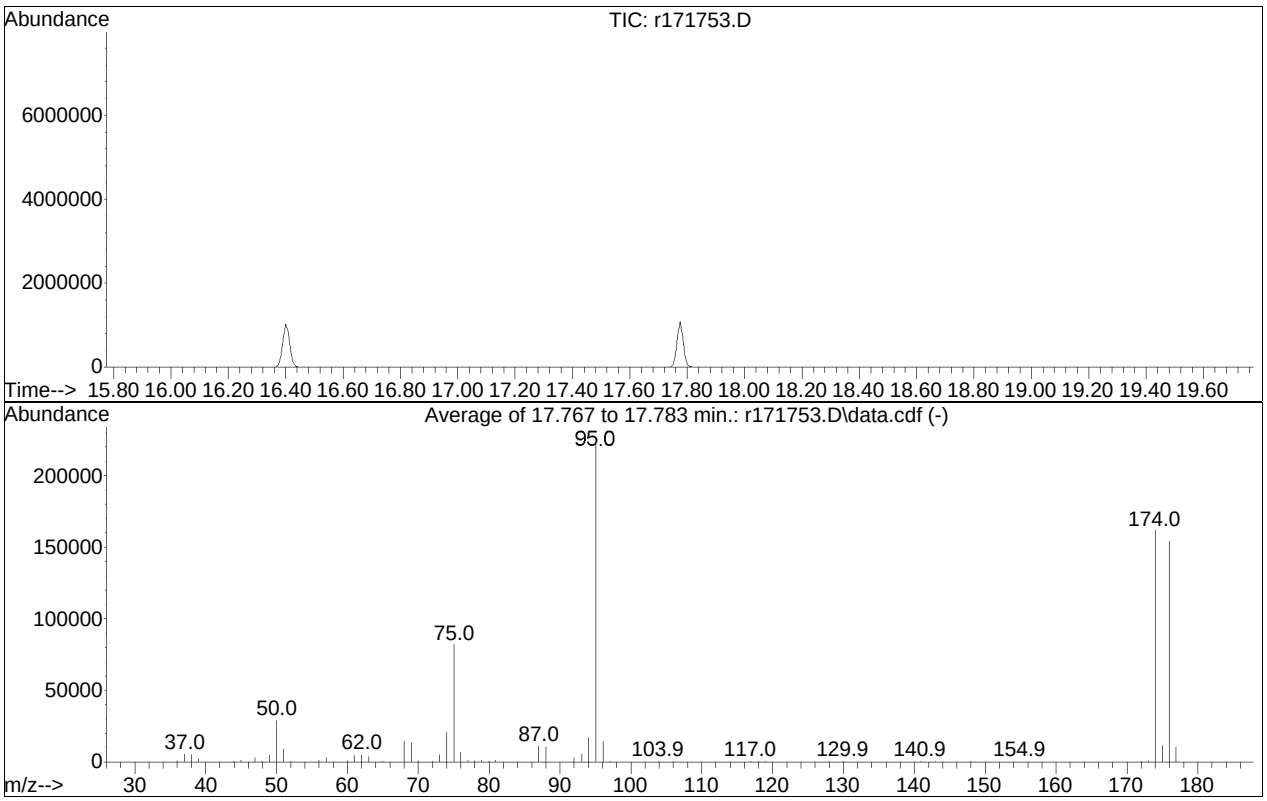
		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)		n-propylbenzene	3.118	3.386	3.835	3.862	3.830	4.025	3.651	3.288	3.6242	8.91
95)		4-chlorotoluene	2.989	3.178	3.228	3.237	3.188	3.356	3.087	2.799	3.1328	5.52
96)		4-ethyl toluene	0.969	1.051	1.196	1.256	1.215	1.255	1.083	0.917	1.1179	11.79
97)		1,3,5-trimethylbenzene	0.887	0.910	1.006	1.203	1.160	1.169	1.021	0.857	1.0267	13.36
98)		tert-butylbenzene	0.869	0.926	1.016	1.090	1.054	1.055	0.863	0.681	0.9443	14.60
99)		1,2,4-trimethylbenzene	0.782	0.844	0.958	1.048	1.016	0.993	0.810	0.635	0.8858	16.02
100)		decane	5.498	6.362	6.783	7.503	7.341	7.398	6.321	5.183	6.5485	13.38
101)	C	Benzyl Chloride	4.021	4.450	5.031	6.534	6.697	7.081	6.457	5.494	5.7205	19.87
102)		1,3-dichlorobenzene	5.057	5.555	6.085	6.393	6.161	6.396	5.703	4.928	5.7846	9.90
103)	C	1,4-dichlorobenzene	4.922	5.526	5.993	6.323	6.213	6.292	5.722	4.999	5.7487	9.75
104)		sec-butylbenzene	1.260	1.311	1.383	1.496	1.452	1.448	1.226	1.014	1.3237	11.94
105)		1,2,3-trimethylbenzene	0.925	0.996	1.085	0.801	0.771	1.105	0.887	0.690	0.9074	16.48
106)		p-isopropyltoluene	1.040	1.115	1.176	1.271	1.231	1.254	0.989	0.759	1.1043	15.62
107)		1,2-dichlorobenzene	4.888	5.028	5.511	5.952	5.786	5.869	5.357	4.830	5.4026	8.32
108)		n-butylbenzene	0.772	0.841	0.891	1.025	1.020	1.019	0.875	0.746	0.8985	12.50
109)		indan	1.115	1.171	1.330	0.932	0.902	1.310	1.103	0.906	1.0961	15.69
110)		indene	6.895	7.383	8.575	6.925	6.824	9.358	8.350	7.212	7.6904	12.33
111)	C	1,2-dibromo-3-chloropropane	1.928	1.973	2.101	2.321	2.311	2.274	2.051	1.850	2.1013	8.71
112)		undecane	5.445	5.812	6.575	7.848	7.931	7.613	6.453	5.228	6.6133	16.38
113)		1,2,4,5-tetramethylbenzene	6.475	7.257	8.113	8.948	9.253	9.961	8.961	7.802	8.3461	13.74
114)		dodecane	4.274	5.278	6.117	8.494	8.498	6.940	6.090	5.086	6.3472	24.36
115)	C	1,2,4-trichlorobenzene	2.522	2.658	3.081	4.348	4.710	4.648	4.426	4.225	3.8273	23.92
116)		naphthalene	0.770	0.861	0.973	1.227	1.296	1.200	1.117	1.045	1.0609	17.38
117)		1,2,3-trichlorobenzene	2.800	2.903	3.204	4.441	4.595	4.318	4.164	3.967	3.7990	18.95
118)		benzothiophene	0.705	0.842	0.982	1.053	1.109	1.352	1.262	1.142	1.0559	20.08
119)	C	hexachlorobutadiene	3.532	3.478	3.486	4.098	4.149	3.776	3.452	3.060	3.6288	9.99
120)		2-methylnaphthalene			1.891	2.176	2.548	3.327	3.581	3.769	2.8821	27.16
121)		1-methylnaphthalene			3.151	3.446	3.858	4.591	4.752	4.783	4.0969	17.33

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171753.D
Acq On : 21 May 2018 2:26 PM
Operator : AIRLAB17:MB
Sample : WG1118303-1,3,250,250
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue May 22 12:38:49 2018



AutoFind: Scans 2255, 2256, 2257; Background Corrected with Scan 2249

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.2	29357	PASS
75	95	30	66	36.8	82038	PASS
95	95	100	100	100.0	222958	PASS
96	95	5	9	6.7	14873	PASS
173	174	0.00	2	0.6	901	PASS
174	95	50	120	72.5	161720	PASS
175	174	4	9	7.1	11506	PASS
176	174	93	101	95.3	154145	PASS
177	176	5	9	6.8	10414	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171757.D
Acq On : 21 May 2018 5:00 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD0.2
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:30:38 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:15 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.433	49	220966	10.000	ppbV	0.00
Standard Area = 237626			Recovery = 92.99%			
43) 1,4-difluorobenzene	11.673	114	644761	10.000	ppbV	0.00
Standard Area = 677624			Recovery = 95.15%			
67) chlorobenzene-D5	16.408	54	92948	10.000	ppbV	0.00
Standard Area = 99670			Recovery = 93.26%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.308	65	132388	9.622	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.22%			
69) toluene-D8	14.492	98	611820	10.022	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.22%			
90) bromofluorobenzene	17.775	95	395583	10.501	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.01%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.898	51	5663	0.242	ppbV	95
3) propylene	3.928	41	2811M6	0.220	ppbV	
4) propane	3.952	29	4242M4	0.259	ppbV	
5) dichlorodifluoromethane	4.000	85	6737	0.254	ppbV	100
6) chloromethane	4.174	50	3436	0.250	ppbV	100
7) Freon-114	4.300	85	9682	0.257	ppbV	98
8) methanol	4.360	31	8184	1.390	ppbV #	1
9) vinyl chloride	4.426	62	3957	0.250	ppbV	99
10) 1,3-butadiene	4.582	54	3356	0.263	ppbV	94
11) butane	4.648	43	5444	0.247	ppbV	98
12) acetaldehyde	4.312	29	12325	2.133	ppbV #	80
13) bromomethane	4.894	94	3800	0.260	ppbV	99
14) chloroethane	5.104	64	2018	0.232	ppbV #	86
15) ethanol	5.270	31	13318	1.232	ppbV	95
16) dichlorofluoromethane	5.240	67	6653	0.254	ppbV	97
17) vinyl bromide	5.523	106	3869	0.262	ppbV	94
18) acrolein	5.660	56	1949	0.273	ppbV #	28
19) acetone	5.830	43	26659	1.808	ppbV #	98
20) acetonitrile	5.513	41	3265	0.263	ppbV #	62
21) trichlorofluoromethane	6.020	101	5928	0.253	ppbV	96
22) isopropyl alcohol	6.143	45	15573	0.845	ppbV	99
23) acrylonitrile	6.383	53	3191	0.255	ppbV #	85
24) pentane	6.460	43	6395	0.246	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171757.D
Acq On : 21 May 2018 5:00 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD0.2
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:30:38 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:15 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.503	31	5261	0.247	ppbV		96
26) 1,1-dichloroethene	6.774	61	5190	0.262	ppbV		95
27) tertiary butyl alcohol	6.858	59	5156	0.251	ppbV	#	90
28) methylene chloride	6.936	49	4612	0.263	ppbV		94
29) 3-chloropropene	7.074	41	4822	0.260	ppbV		98
30) carbon disulfide	7.224	76	11356	0.239	ppbV	#	1
31) Freon 113	7.260	101	7352	0.251	ppbV		96
32) trans-1,2-dichloroethene	8.042	61	5200	0.251	ppbV		90
33) 1,1-dichloroethane	8.267	63	7264	0.279	ppbV		97
34) MTBE	8.367	73	8080	0.241	ppbV	#	89
35) vinyl acetate	8.492	43	8852	0.218	ppbV		100
36) 2-butanone	8.758	43	9320	0.241	ppbV		99
37) cis-1,2-dichloroethene	9.250	61	5062	0.208	ppbV		95
38) Ethyl Acetate	9.558	61	1259	0.197	ppbV	#	92
39) chloroform	9.600	83	7345	0.250	ppbV		96
40) Tetrahydrofuran	10.058	42	4359	0.183	ppbV		97
41) 2,2-dichloropropane	9.608	77	4991	0.227	ppbV	#	86
42) 1,2-dichloroethane	10.433	62	4051	0.243	ppbV		95
44) hexane	9.508	57	6798	0.218	ppbV	#	68
45) diisopropyl ether	9.525	87	3128	0.197	ppbV		92
46) tert-butyl ethyl ether	10.142	59	8835	0.190	ppbV		97
48) 1,1,1-trichloroethane	10.717	97	6037	0.240	ppbV		94
49) 1,1-dichloropropene	11.080	75	5467	0.206	ppbV		97
50) benzene	11.240	78	14788	0.231	ppbV		95
51) thiophene	11.387	84	10108	0.303	ppbV		98
52) carbon tetrachloride	11.407	117	5708	0.232	ppbV		93
53) cyclohexane	11.553	56	6811	0.204	ppbV		95
54) tert-amyl methyl ether	11.947	73	8369	0.191	ppbV		98
55) dibromomethane	12.147	93	4627	0.252	ppbV		95
56) 1,2-dichloropropane	12.180	63	5234	0.240	ppbV		97
57) bromodichloromethane	12.407	83	7525	0.233	ppbV		98
58) 1,4-dioxane	12.480	88	2524	0.180	ppbV		95
59) trichloroethene	12.460	130	5879	0.231	ppbV		98
60) 2,2,4-trimethylpentane	12.513	57	22268	0.218	ppbV		97
61) methyl methacrylate	12.720	41	5300	0.246	ppbV		98
62) heptane	12.827	43	8319	0.202	ppbV		97
63) cis-1,3-dichloropropene	13.467	75	5912	0.191	ppbV		99
64) 4-methyl-2-pentanone	13.525	43	7950	0.173	ppbV		97
65) trans-1,3-dichloropropene	14.083	75	5082	0.180	ppbV		96
66) 1,1,2-trichloroethane	14.283	97	6098	0.247	ppbV		94

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171757.D
Acq On : 21 May 2018 5:00 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD0.2
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:30:38 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:15 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	14.608	91	16506	0.233	ppbV		100
70) 2-methylthiophene	14.675	97	15681	0.322	ppbV		96
71) 1,3-dichloropropane	14.642	76	7986	0.236	ppbV		97
72) 2-hexanone	14.917	43	7951	0.191	ppbV		97
73) 3-methylthiophene	14.875	97	15690	0.306	ppbV		98
74) dibromochloromethane	15.058	129	7641	0.231	ppbV		92
75) 1,2-dibromoethane	15.308	107	8614	0.235	ppbV		100
76) butyl acetate	15.583	73	1117	0.136	ppbV		92
77) octane	15.658	85	5133	0.190	ppbV		89
78) tetrachloroethene	15.783	166	7086	0.241	ppbV		97
79) 1,1,1,2-tetrachloroethane	16.433	131	5646	0.225	ppbV		95
80) chlorobenzene	16.450	112	14678	0.236	ppbV		99
81) ethylbenzene	16.800	91	17666	0.194	ppbV		96
82) 2-ethylthiophene	16.842	97	16052	0.279	ppbV	#	98
83) m+p-xylene	16.958	91	30880	0.416	ppbV		96
84) bromoform	17.033	173	6427	0.213	ppbV		92
85) styrene	17.292	104	11831	0.183	ppbV		98
86) 1,1,2,2-tetrachloroethane	17.383	83	11979	0.214	ppbV		100
87) o-xylene	17.383	91	15150	0.205	ppbV		95
88) 1,2,3-trichloropropane	17.500	75	8973	0.213	ppbV		96
89) nonane	17.583	43	11794	0.191	ppbV		98
91) isopropylbenzene	17.892	105	19962	0.195	ppbV		100
92) bromobenzene	17.967	77	11924	0.221	ppbV		98
93) 2-chlorotoluene	18.300	126	5676	0.190	ppbV		97
94) n-propylbenzene	18.325	120	5796	0.163	ppbV		96
95) 4-chlorotoluene	18.350	126	5557	0.188	ppbV		97
96) 4-ethyl toluene	18.450	105	18012	0.159	ppbV		98
97) 1,3,5-trimethylbenzene	18.508	105	16490	0.153	ppbV		95
98) tert-butylbenzene	18.850	119	16152	0.165	ppbV		97
99) 1,2,4-trimethylbenzene	18.850	105	14543	0.154	ppbV	#	90
100) decane	18.933	57	10220	0.150	ppbV		90
101) Benzyl Chloride	18.967	91	7475	0.120	ppbV		99
102) 1,3-dichlorobenzene	18.983	146	9400	0.164	ppbV		96
103) 1,4-dichlorobenzene	19.042	146	9149	0.158	ppbV		94
104) sec-butylbenzene	19.075	105	23418	0.174	ppbV		100
105) 1,2,3-trimethylbenzene	19.208	105	17192	0.240	ppbV		90
106) p-isopropyltoluene	19.200	119	19338	0.169	ppbV		96
107) 1,2-dichlorobenzene	19.325	146	9087	0.169	ppbV		98
108) n-butylbenzene	19.550	91	14357	0.151	ppbV		99
109) indan	19.375	117	20732	0.247	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171757.D
Acq On : 21 May 2018 5:00 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD0.2
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:30:38 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:15 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

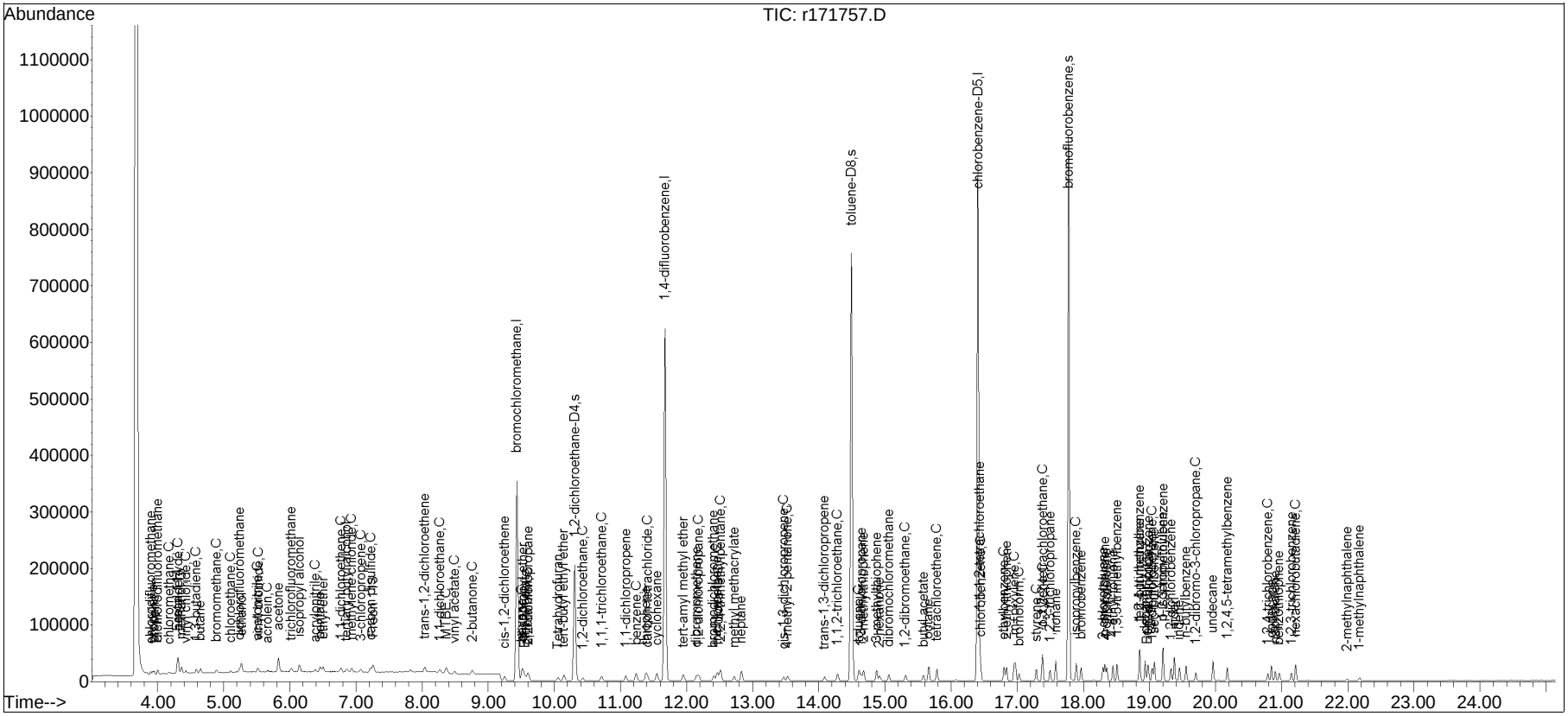
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.450	115	12818	0.202	ppbV	100
111) 1,2-dibromo-3-chloropr...	19.700	75	3584	0.167	ppbV	84
112) undecane	19.958	57	10122	0.137	ppbV	97
113) 1,2,4,5-tetramethylben...	20.175	119	12036	0.140	ppbV	98
114) dodecane	20.842	57	7945	0.101	ppbV	99
115) 1,2,4-trichlorobenzene	20.792	180	4689	0.107	ppbV	100
116) naphthalene	20.900	128	14306	0.119	ppbV	100
117) 1,2,3-trichlorobenzene	21.150	180	5206	0.122	ppbV	95
118) benzothiophene	20.958	134	13103	0.127	ppbV	100
119) hexachlorobutadiene	21.208	225	6565	0.170	ppbV	98
120) 2-methylnaphthalene	21.992	142	2047	0.086	ppbV	97
121) 1-methylnaphthalene	22.175	142	3482	0.097	ppbV	88

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

Sub List : Default - All compounds listed8\180521T_ICAL\r171761.D

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171757.D
Acq On : 21 May 2018 5:00 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD0.2
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

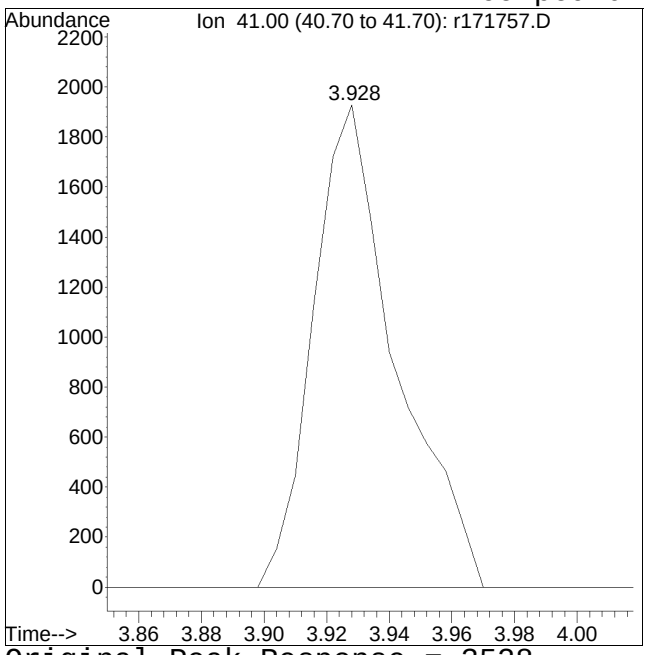
Quant Time: May 22 12:30:38 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:15 2018
Response via : Initial Calibration



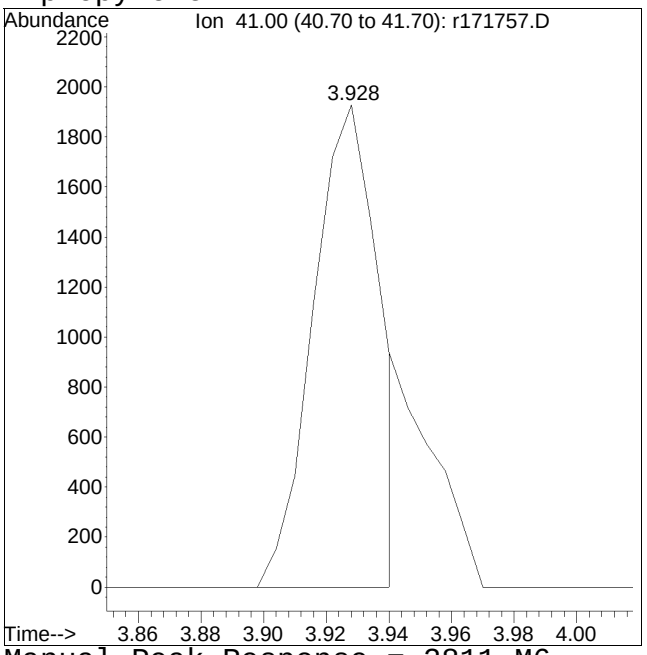
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171757.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 5:00 PM Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 5/22/2018 12:29 pm

Compound #3: propylene



Original Peak Response = 3528



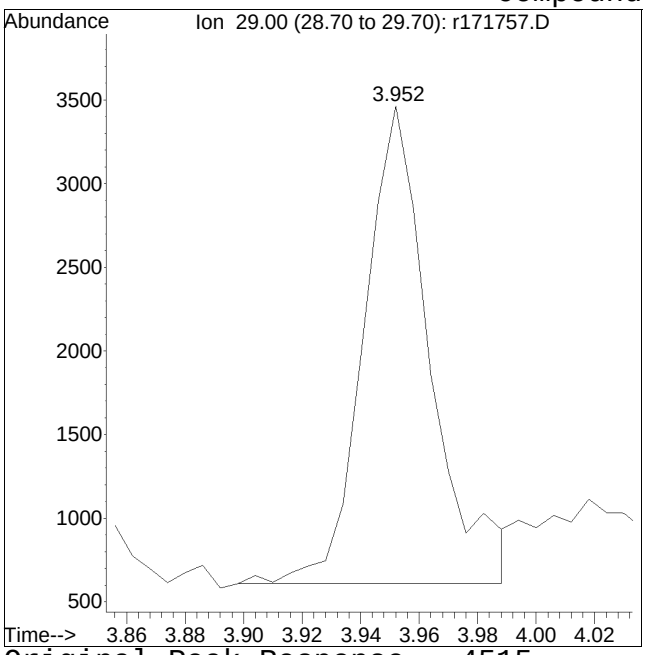
Manual Peak Response = 2811 M6

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

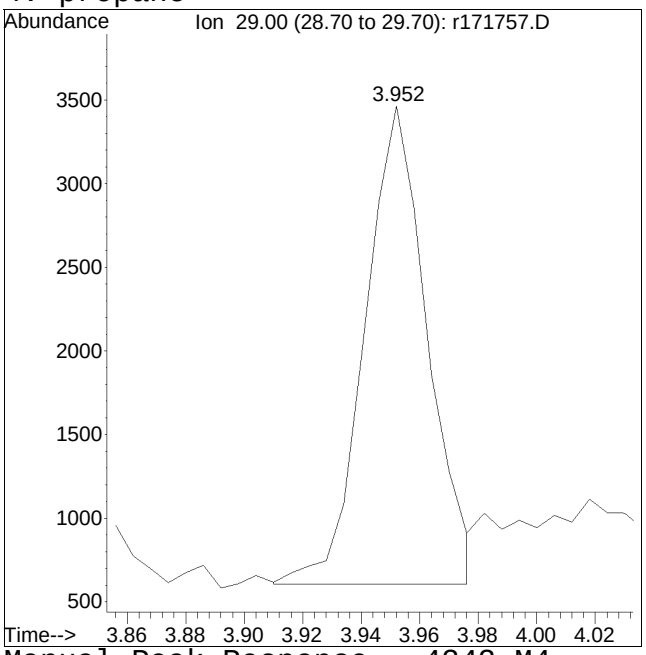
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171757.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 5:00 PM Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 5/22/2018 12:29 pm

Compound #4: propane



Original Peak Response = 4515



Manual Peak Response = 4242 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171758.D
Acq On : 21 May 2018 5:39 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD0.5
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:31:32 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.433	49	229177	10.000	ppbV	0.00
Standard Area = 237626			Recovery = 96.44%			
43) 1,4-difluorobenzene	11.673	114	662191	10.000	ppbV	0.00
Standard Area = 677624			Recovery = 97.72%			
67) chlorobenzene-D5	16.408	54	94800	10.000	ppbV	0.00
Standard Area = 99670			Recovery = 95.11%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.308	65	139129	9.846	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.46%			
69) toluene-D8	14.492	98	628363	10.092	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.92%			
90) bromofluorobenzene	17.775	95	410791	10.692	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.92%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.898	51	14144	0.584	ppbV	100
3) propylene	3.928	41	7777M6	0.586	ppbV	
4) propane	3.952	29	9908	0.583	ppbV	99
5) dichlorodifluoromethane	4.000	85	16363	0.595	ppbV	100
6) chloromethane	4.180	50	8578	0.601	ppbV	98
7) Freon-114	4.300	85	22894	0.585	ppbV	98
8) methanol	4.360	31	18698	3.062	ppbV #	25
9) vinyl chloride	4.426	62	9415	0.573	ppbV	94
10) 1,3-butadiene	4.588	54	7862	0.594	ppbV	98
11) butane	4.648	43	13086	0.573	ppbV	98
12) acetaldehyde	4.312	29	28282	4.718	ppbV	89
13) bromomethane	4.894	94	8831	0.583	ppbV	98
14) chloroethane	5.104	64	4782	0.529	ppbV	97
15) ethanol	5.267	31	30583	2.728	ppbV	100
16) dichlorofluoromethane	5.243	67	15610	0.575	ppbV	99
17) vinyl bromide	5.520	106	8576	0.561	ppbV	96
18) acrolein	5.670	56	4350	0.588	ppbV #	70
19) acetone	5.823	43	60698	3.970	ppbV	98
20) acetonitrile	5.507	41	7623	0.592	ppbV #	77
21) trichlorofluoromethane	6.023	101	14092	0.581	ppbV	97
22) isopropyl alcohol	6.137	45	33795	1.767	ppbV	98
23) acrylonitrile	6.387	53	7364	0.568	ppbV	96
24) pentane	6.460	43	15498	0.574	ppbV	99

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171758.D
Acq On : 21 May 2018 5:39 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD0.5
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:31:32 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.503	31	12725	0.576	ppbV		93
26) 1,1-dichloroethene	6.774	61	11745	0.573	ppbV		98
27) tertiary butyl alcohol	6.852	59	11739	0.551	ppbV	#	93
28) methylene chloride	6.936	49	10259	0.565	ppbV		94
29) 3-chloropropene	7.074	41	10896	0.565	ppbV		98
30) carbon disulfide	7.218	76	26875	0.546	ppbV	#	19
31) Freon 113	7.260	101	17449	0.575	ppbV		98
32) trans-1,2-dichloroethene	8.042	61	12160	0.566	ppbV		97
33) 1,1-dichloroethane	8.267	63	15197	0.562	ppbV		99
34) MTBE	8.358	73	17940	0.516	ppbV	#	94
35) vinyl acetate	8.492	43	19365	0.459	ppbV	#	90
36) 2-butanone	8.758	43	21207	0.530	ppbV		99
37) cis-1,2-dichloroethene	9.250	61	12255	0.485	ppbV		95
38) Ethyl Acetate	9.558	61	3633	0.547	ppbV		91
39) chloroform	9.600	83	17296	0.569	ppbV		98
40) Tetrahydrofuran	10.050	42	10997	0.444	ppbV		98
41) 2,2-dichloropropane	9.608	77	12073	0.530	ppbV		93
42) 1,2-dichloroethane	10.433	62	9875	0.570	ppbV		98
44) hexane	9.508	57	16357	0.510	ppbV	#	76
45) diisopropyl ether	9.525	87	7973	0.488	ppbV		93
46) tert-butyl ethyl ether	10.142	59	21980	0.461	ppbV		99
48) 1,1,1-trichloroethane	10.717	97	14041	0.543	ppbV		96
49) 1,1-dichloropropene	11.080	75	13510	0.495	ppbV		96
50) benzene	11.240	78	34886	0.531	ppbV		99
51) thiophene	11.387	84	25122	0.732	ppbV		100
52) carbon tetrachloride	11.407	117	13428	0.531	ppbV		97
53) cyclohexane	11.553	56	16987	0.496	ppbV		96
54) tert-amyl methyl ether	11.947	73	21261	0.472	ppbV		99
55) dibromomethane	12.147	93	10808	0.572	ppbV		97
56) 1,2-dichloropropane	12.187	63	11886	0.530	ppbV		94
57) bromodichloromethane	12.413	83	17450	0.527	ppbV		99
58) 1,4-dioxane	12.473	88	6883	0.478	ppbV		96
59) trichloroethene	12.460	130	13693	0.523	ppbV		97
60) 2,2,4-trimethylpentane	12.513	57	55400	0.529	ppbV		96
61) methyl methacrylate	12.720	41	14400	0.650	ppbV		100
62) heptane	12.833	43	21347	0.504	ppbV		97
63) cis-1,3-dichloropropene	13.475	75	14785	0.465	ppbV		97
64) 4-methyl-2-pentanone	13.525	43	21979	0.465	ppbV		95
65) trans-1,3-dichloropropene	14.092	75	12810	0.442	ppbV		100
66) 1,1,2-trichloroethane	14.283	97	13721	0.541	ppbV		98

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171758.D
Acq On : 21 May 2018 5:39 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD0.5
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:31:32 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.608	91	38739	0.537	ppbV	96
70) 2-methylthiophene	14.675	97	39705	0.798	ppbV	96
71) 1,3-dichloropropane	14.642	76	18759	0.543	ppbV	96
72) 2-hexanone	14.917	43	21135	0.497	ppbV	95
73) 3-methylthiophene	14.875	97	39433	0.753	ppbV	100
74) dibromochloromethane	15.058	129	17783	0.526	ppbV	98
75) 1,2-dibromoethane	15.308	107	20151	0.539	ppbV	97
76) butyl acetate	15.575	73	3326	0.398	ppbV	95
77) octane	15.658	85	13803	0.500	ppbV	98
78) tetrachloroethene	15.783	166	16827	0.561	ppbV	98
79) 1,1,1,2-tetrachloroethane	16.433	131	13670	0.533	ppbV	95
80) chlorobenzene	16.442	112	34917	0.550	ppbV	99
81) ethylbenzene	16.800	91	44393	0.478	ppbV	97
82) 2-ethylthiophene	16.842	97	42188	0.718	ppbV	99
83) m+p-xylene	16.967	91	79381	1.049	ppbV	98
84) bromoform	17.025	173	16070	0.521	ppbV	99
85) styrene	17.292	104	30366	0.460	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.383	83	29106	0.509	ppbV	100
87) o-xylene	17.383	91	38884	0.515	ppbV	96
88) 1,2,3-trichloropropane	17.492	75	22271	0.519	ppbV	99
89) nonane	17.583	43	32210	0.511	ppbV	96
91) isopropylbenzene	17.892	105	52606	0.503	ppbV	100
92) bromobenzene	17.967	77	29494	0.537	ppbV	99
93) 2-chlorotoluene	18.292	126	14686	0.483	ppbV	99
94) n-propylbenzene	18.325	120	16049	0.442	ppbV	93
95) 4-chlorotoluene	18.350	126	15064	0.498	ppbV	94
96) 4-ethyl toluene	18.450	105	49818	0.432	ppbV	97
97) 1,3,5-trimethylbenzene	18.508	105	43111	0.392	ppbV	100
98) tert-butylbenzene	18.850	119	43911	0.439	ppbV	100
99) 1,2,4-trimethylbenzene	18.850	105	40013	0.415	ppbV	95
100) decane	18.933	57	30154	0.433	ppbV	96
101) Benzyl Chloride	18.975	91	21091	0.332	ppbV	96
102) 1,3-dichlorobenzene	18.983	146	26332	0.451	ppbV	97
103) 1,4-dichlorobenzene	19.042	146	26191	0.445	ppbV	94
104) sec-butylbenzene	19.075	105	62144	0.452	ppbV	100
105) 1,2,3-trimethylbenzene	19.208	105	47222	0.646	ppbV	88
106) p-isopropyltoluene	19.200	119	52842	0.453	ppbV	96
107) 1,2-dichlorobenzene	19.325	146	23833	0.434	ppbV	99
108) n-butylbenzene	19.550	91	39869	0.412	ppbV	94
109) indan	19.375	117	55505	0.649	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171758.D
Acq On : 21 May 2018 5:39 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD0.5
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:31:32 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

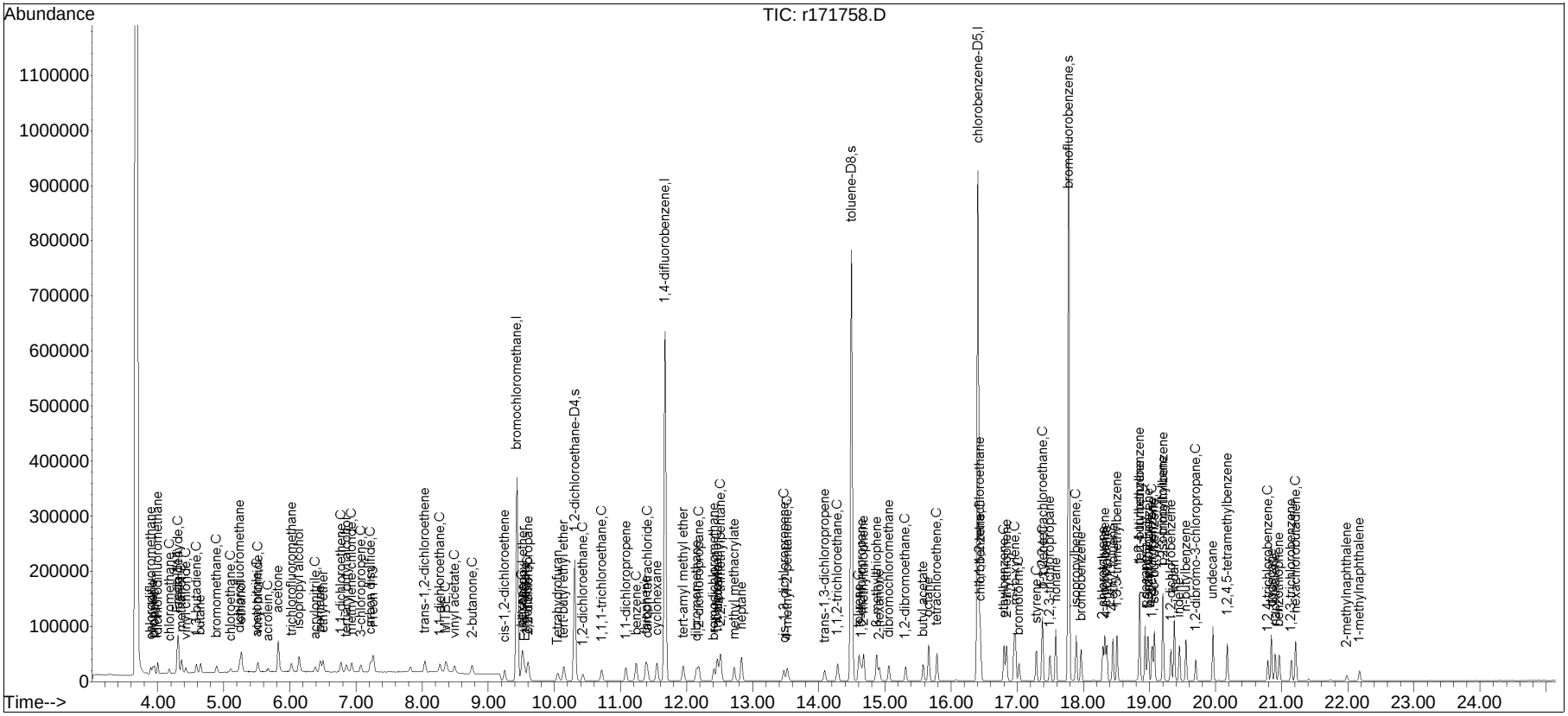
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	19.450	115	34995	0.541	ppbV		100
111) 1,2-dibromo-3-chloropr...	19.700	75	9353	0.427	ppbV	#	86
112) undecane	19.958	57	27550	0.366	ppbV		95
113) 1,2,4,5-tetramethylben...	20.175	119	34396	0.392	ppbV		99
114) dodecane	20.842	57	25018	0.311	ppbV		94
115) 1,2,4-trichlorobenzene	20.792	180	12598	0.282	ppbV		99
116) naphthalene	20.900	128	40815	0.332	ppbV		100
117) 1,2,3-trichlorobenzene	21.142	180	13761	0.316	ppbV		97
118) benzothiophene	20.958	134	39930	0.380	ppbV		99
119) hexachlorobutadiene	21.208	225	16484	0.419	ppbV		97
120) 2-methylnaphthalene	21.983	142	6790	0.281	ppbV		97
121) 1-methylnaphthalene	22.175	142	11526	0.315	ppbV		97

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

Sub List : Default - All compounds listed8\180521T_ICAL\r171761.D

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171758.D
Acq On : 21 May 2018 5:39 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD0.5
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

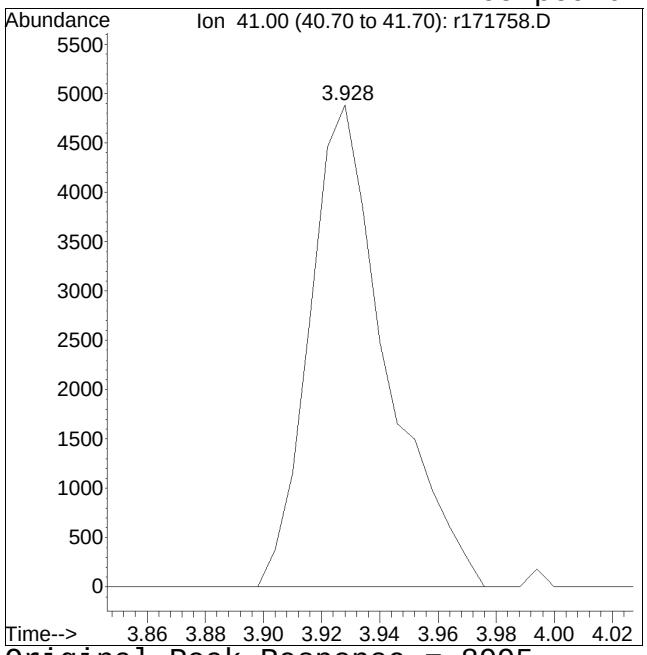
Quant Time: May 22 12:31:32 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration



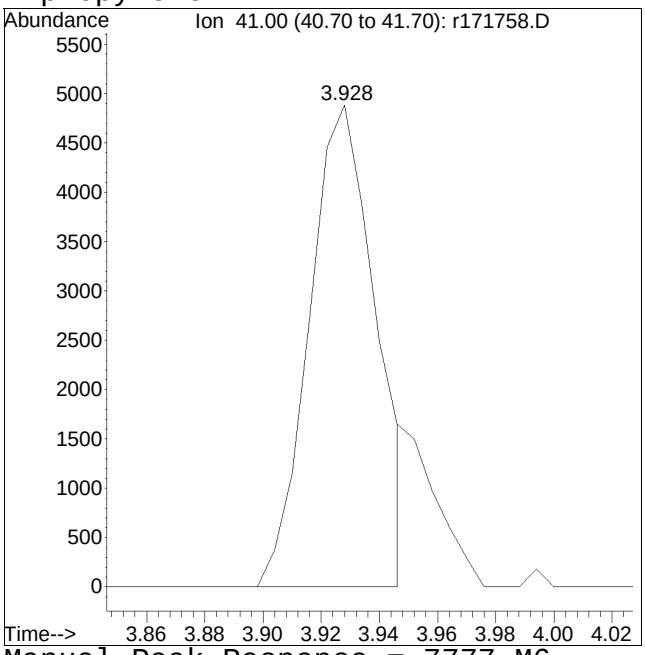
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171758.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 5:39 PM Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 5/22/2018 12:29 pm

Compound #3: propylene



Original Peak Response = 8995



Manual Peak Response = 7777 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171759.D
Acq On : 21 May 2018 6:19 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD1.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:33:48 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.433	49	220211	10.000	ppbV	0.00
Standard Area = 237626			Recovery = 92.67%			
43) 1,4-difluorobenzene	11.673	114	643224	10.000	ppbV	0.00
Standard Area = 677624			Recovery = 94.92%			
67) chlorobenzene-D5	16.408	54	93380	10.000	ppbV	0.00
Standard Area = 99670			Recovery = 93.69%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.308	65	134666	9.811	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.11%			
69) toluene-D8	14.492	98	621094	10.127	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.27%			
90) bromofluorobenzene	17.775	95	389717	10.298	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.98%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.898	51	25320	1.087	ppbV	99
3) propylene	3.928	41	13855M6	1.086	ppbV	
4) propane	3.952	29	18396	1.126	ppbV	98
5) dichlorodifluoromethane	4.000	85	29320	1.109	ppbV	98
6) chloromethane	4.180	50	15047	1.098	ppbV	99
7) Freon-114	4.300	85	41936	1.116	ppbV	99
8) methanol	4.360	31	32861	5.601	ppbV #	62
9) vinyl chloride	4.426	62	17246	1.093	ppbV	98
10) 1,3-butadiene	4.588	54	13844	1.089	ppbV	99
11) butane	4.648	43	23848	1.087	ppbV	99
12) acetaldehyde	4.312	29	50172	8.711	ppbV	94
13) bromomethane	4.894	94	15992	1.100	ppbV	99
14) chloroethane	5.104	64	8826	1.016	ppbV	93
15) ethanol	5.263	31	57387	5.328	ppbV	97
16) dichlorofluoromethane	5.240	67	28989	1.111	ppbV	95
17) vinyl bromide	5.523	106	16358	1.113	ppbV	90
18) acrolein	5.667	56	7728	1.087	ppbV #	79
19) acetone	5.820	43	113528	7.727	ppbV	97
20) acetonitrile	5.510	41	13576	1.097	ppbV	96
21) trichlorofluoromethane	6.023	101	25827	1.107	ppbV	96
22) isopropyl alcohol	6.137	45	62777	3.417	ppbV	99
23) acrylonitrile	6.383	53	13637	1.094	ppbV	97
24) pentane	6.457	43	28473	1.098	ppbV	99

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171759.D
Acq On : 21 May 2018 6:19 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD1.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:33:48 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.497	31	23101	1.088	ppbV		97
26) 1,1-dichloroethene	6.774	61	21542	1.093	ppbV		98
27) tertiary butyl alcohol	6.846	59	21813	1.065	ppbV	#	96
28) methylene chloride	6.936	49	19311	1.107	ppbV		98
29) 3-chloropropene	7.074	41	19491	1.053	ppbV		96
30) carbon disulfide	7.218	76	51404	1.087	ppbV	#	67
31) Freon 113	7.260	101	32684	1.121	ppbV		97
32) trans-1,2-dichloroethene	8.042	61	22284	1.080	ppbV		95
33) 1,1-dichloroethane	8.267	63	28031	1.079	ppbV		100
34) MTBE	8.358	73	33948	1.017	ppbV		97
35) vinyl acetate	8.483	43	34744	0.858	ppbV	#	94
36) 2-butanone	8.750	43	39912	1.038	ppbV		99
37) cis-1,2-dichloroethene	9.250	61	26268	1.082	ppbV		98
38) Ethyl Acetate	9.550	61	6261	0.981	ppbV		97
39) chloroform	9.592	83	32351	1.107	ppbV		100
40) Tetrahydrofuran	10.042	42	21444	0.901	ppbV		99
41) 2,2-dichloropropane	9.608	77	22827	1.042	ppbV		95
42) 1,2-dichloroethane	10.433	62	18279	1.099	ppbV		98
44) hexane	9.508	57	31346	1.007	ppbV		82
45) diisopropyl ether	9.525	87	14991	0.945	ppbV		91
46) tert-butyl ethyl ether	10.142	59	43356	0.937	ppbV		99
48) 1,1,1-trichloroethane	10.717	97	26018	1.036	ppbV		97
49) 1,1-dichloropropene	11.080	75	25578	0.964	ppbV		100
50) benzene	11.233	78	65960	1.033	ppbV		99
51) thiophene	11.380	84	48862	1.466	ppbV		98
52) carbon tetrachloride	11.407	117	25559	1.041	ppbV		99
53) cyclohexane	11.547	56	33044	0.993	ppbV		99
54) tert-amyl methyl ether	11.947	73	39887	0.912	ppbV		98
55) dibromomethane	12.147	93	19818	1.080	ppbV		97
56) 1,2-dichloropropane	12.180	63	22583	1.037	ppbV		99
57) bromodichloromethane	12.413	83	33211	1.032	ppbV		100
58) 1,4-dioxane	12.467	88	12942	0.925	ppbV		91
59) trichloroethene	12.460	130	26379	1.038	ppbV		99
60) 2,2,4-trimethylpentane	12.507	57	107904	1.061	ppbV		99
61) methyl methacrylate	12.720	41	29536	1.373	ppbV		99
62) heptane	12.827	43	42035	1.022	ppbV		98
63) cis-1,3-dichloropropene	13.467	75	27836	0.900	ppbV		98
64) 4-methyl-2-pentanone	13.517	43	43922	0.957	ppbV		100
65) trans-1,3-dichloropropene	14.083	75	25408	0.903	ppbV		97
66) 1,1,2-trichloroethane	14.283	97	25989	1.055	ppbV		98

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171759.D
Acq On : 21 May 2018 6:19 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD1.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:33:48 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.608	91	75456	1.062	ppbV	98
70) 2-methylthiophene	14.675	97	78752	1.607	ppbV	100
71) 1,3-dichloropropane	14.633	76	36704	1.080	ppbV	98
72) 2-hexanone	14.908	43	41977	1.002	ppbV	97
73) 3-methylthiophene	14.875	97	78169	1.516	ppbV	98
74) dibromochloromethane	15.058	129	34308	1.030	ppbV	96
75) 1,2-dibromoethane	15.308	107	38576	1.047	ppbV	95
76) butyl acetate	15.575	73	6843	0.831	ppbV	92
77) octane	15.658	85	27728	1.019	ppbV	92
78) tetrachloroethene	15.783	166	32581	1.103	ppbV	99
79) 1,1,1,2-tetrachloroethane	16.433	131	26702	1.058	ppbV	99
80) chlorobenzene	16.442	112	66308	1.060	ppbV	99
81) ethylbenzene	16.800	91	90116	0.985	ppbV	100
82) 2-ethylthiophene	16.833	97	85539	1.477	ppbV	98
83) m+p-xylene	16.967	91	154613	2.075	ppbV	100
84) bromoform	17.025	173	30506	1.005	ppbV	95
85) styrene	17.283	104	62992	0.968	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.383	83	58127	1.032	ppbV	100
87) o-xylene	17.383	91	77221	1.038	ppbV	97
88) 1,2,3-trichloropropane	17.492	75	44829	1.060	ppbV	99
89) nonane	17.583	43	65786	1.060	ppbV	97
91) isopropylbenzene	17.892	105	106746	1.037	ppbV	97
92) bromobenzene	17.967	77	56508	1.045	ppbV	99
93) 2-chlorotoluene	18.292	126	28904	0.965	ppbV	97
94) n-propylbenzene	18.325	120	35808	1.001	ppbV	94
95) 4-chlorotoluene	18.350	126	30147	1.013	ppbV	91
96) 4-ethyl toluene	18.450	105	111696	0.984	ppbV	99
97) 1,3,5-trimethylbenzene	18.508	105	93980	0.868	ppbV	95
98) tert-butylbenzene	18.850	119	94856	0.963	ppbV	99
99) 1,2,4-trimethylbenzene	18.850	105	89454	0.943	ppbV	98
100) decane	18.933	57	63342	0.924	ppbV	97
101) Benzyl Chloride	18.967	91	46975	0.751	ppbV	96
102) 1,3-dichlorobenzene	18.983	146	56824	0.988	ppbV	99
103) 1,4-dichlorobenzene	19.033	146	55964	0.965	ppbV	98
104) sec-butylbenzene	19.075	105	129121	0.952	ppbV	99
105) 1,2,3-trimethylbenzene	19.200	105	101356	1.407	ppbV	94
106) p-isopropyltoluene	19.200	119	109794	0.955	ppbV	96
107) 1,2-dichlorobenzene	19.325	146	51458	0.952	ppbV	97
108) n-butylbenzene	19.550	91	83198	0.874	ppbV	97
109) indan	19.375	117	124174	1.474	ppbV	99

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171759.D
Acq On : 21 May 2018 6:19 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD1.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:33:48 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

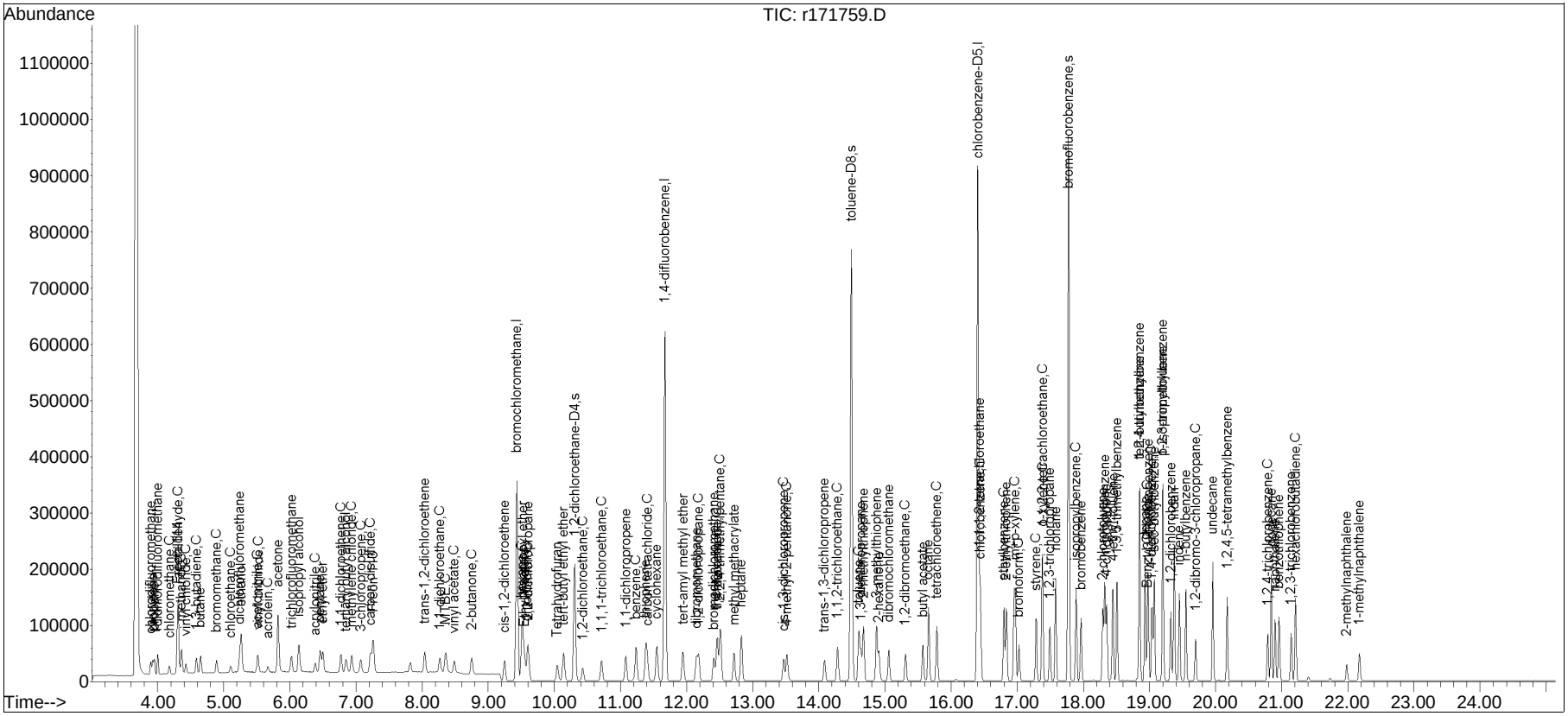
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.450	115	80071	1.257	ppbV	100
111) 1,2-dibromo-3-chloropr...	19.700	75	19622	0.909	ppbV	82
112) undecane	19.958	57	61400	0.829	ppbV	96
113) 1,2,4,5-tetramethylben...	20.175	119	75759	0.877	ppbV	99
114) dodecane	20.842	57	57125	0.720	ppbV	94
115) 1,2,4-trichlorobenzene	20.792	180	28771	0.654	ppbV	96
116) naphthalene	20.900	128	90815M4	0.750	ppbV	
117) 1,2,3-trichlorobenzene	21.142	180	29920	0.697	ppbV	99
118) benzothiophene	20.958	134	91720	0.886	ppbV	99
119) hexachlorobutadiene	21.208	225	32552	0.840	ppbV	96
120) 2-methylnaphthalene	21.983	142	17661	0.742	ppbV	97
121) 1-methylnaphthalene	22.175	142	29422	0.817	ppbV	98

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

Sub List : Default - All compounds listed8\180521T_ICAL\r171761.D

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171759.D
Acq On : 21 May 2018 6:19 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD1.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

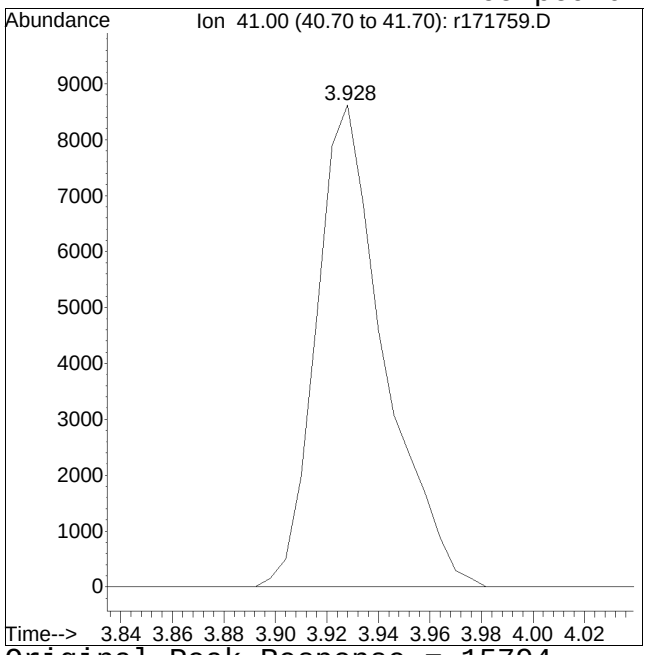
Quant Time: May 22 12:33:48 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration



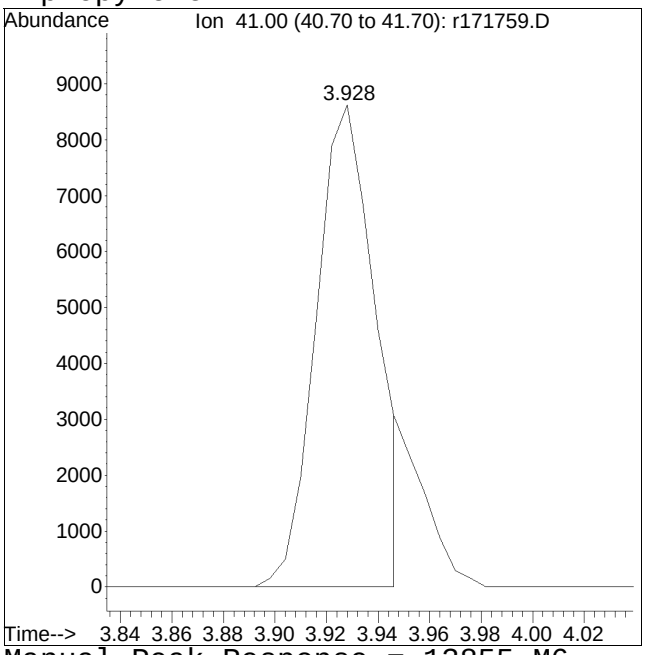
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171759.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 6:19 PM Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 5/22/2018 12:29 pm

Compound #3: propylene



Original Peak Response = 15794



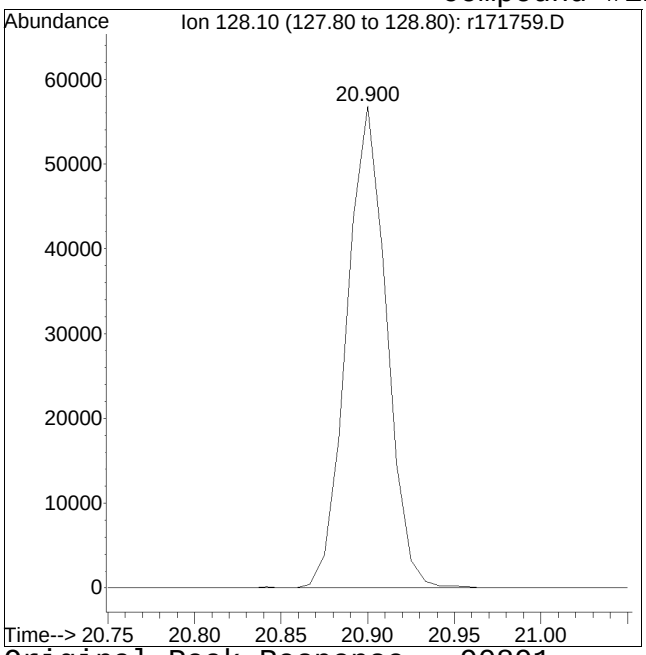
Manual Peak Response = 13855 M6

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

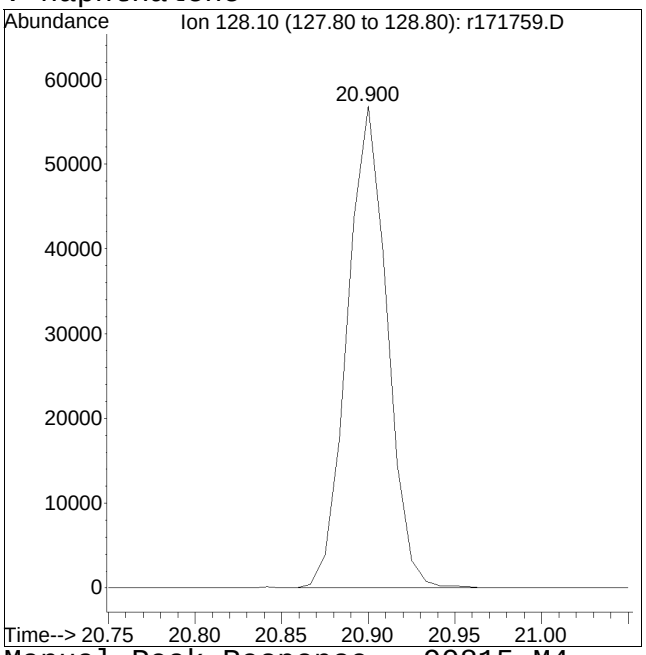
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171759.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 6:19 PM Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 5/22/2018 12:29 pm

Compound #116: naphthalene



Original Peak Response = 90891



Manual Peak Response = 90815 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171760.D
Acq On : 21 May 2018 6:58 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD5.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:35:07 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.433	49	231708	10.000	ppbV	0.00
Standard Area = 237626			Recovery = 97.51%			
43) 1,4-difluorobenzene	11.673	114	665600	10.000	ppbV	0.00
Standard Area = 677624			Recovery = 98.23%			
67) chlorobenzene-D5	16.400	54	97273	10.000	ppbV	0.00
Standard Area = 99670			Recovery = 97.60%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.308	65	140449	9.888	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.88%			
69) toluene-D8	14.492	98	638398	9.992	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.92%			
90) bromofluorobenzene	17.775	95	405742	10.292	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.92%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.892	51	131178	5.353	ppbV	99
3) propylene	3.928	41	70819M6	5.274	ppbV	
4) propane	3.952	29	92966	5.409	ppbV	99
5) dichlorodifluoromethane	4.000	85	151041	5.431	ppbV	99
6) chloromethane	4.174	50	78092	5.415	ppbV	99
7) Freon-114	4.300	85	213202	5.393	ppbV	99
8) methanol	4.360	31	163789	26.532	ppbV	96
9) vinyl chloride	4.426	62	87760	5.285	ppbV	99
10) 1,3-butadiene	4.588	54	70431	5.265	ppbV	97
11) butane	4.648	43	122533	5.307	ppbV	99
12) acetaldehyde	4.312	29	166288	27.439	ppbV	99
13) bromomethane	4.894	94	80737	5.276	ppbV	98
14) chloroethane	5.104	64	49363	5.403	ppbV	100
15) ethanol	5.257	31	294933	26.022	ppbV	98
16) dichlorofluoromethane	5.240	67	145235	5.289	ppbV	99
17) vinyl bromide	5.517	106	80834	5.227	ppbV	99
18) acrolein	5.660	56	38397	5.132	ppbV	97
19) acetone	5.813	43	407658	26.370	ppbV	99
20) acetonitrile	5.503	41	67876	5.212	ppbV	98
21) trichlorofluoromethane	6.023	101	129879	5.292	ppbV	99
22) isopropyl alcohol	6.127	45	247245	12.789	ppbV	99
23) acrylonitrile	6.380	53	68313	5.208	ppbV	97
24) pentane	6.457	43	142385	5.219	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171760.D
Acq On : 21 May 2018 6:58 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD5.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:35:07 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.493	31	116651	5.220	ppbV		98
26) 1,1-dichloroethene	6.774	61	108627	5.239	ppbV		97
27) tertiary butyl alcohol	6.834	59	109973	5.104	ppbV		99
28) methylene chloride	6.936	49	95853	5.222	ppbV		99
29) 3-chloropropene	7.074	41	100938	5.180	ppbV		99
30) carbon disulfide	7.218	76	258489	5.193	ppbV		97
31) Freon 113	7.260	101	161079	5.249	ppbV		98
32) trans-1,2-dichloroethene	8.042	61	113740	5.237	ppbV		99
33) 1,1-dichloroethane	8.267	63	143462	5.250	ppbV		99
34) MTBE	8.350	73	179041	5.095	ppbV		99
35) vinyl acetate	8.483	43	171666	4.028	ppbV	#	94
36) 2-butanone	8.742	43	206722	5.108	ppbV		99
37) cis-1,2-dichloroethene	9.242	61	133946	5.246	ppbV		99
38) Ethyl Acetate	9.542	61	33787	5.032	ppbV		92
39) chloroform	9.592	83	160630	5.222	ppbV		99
40) Tetrahydrofuran	10.033	42	126260	5.044	ppbV		99
41) 2,2-dichloropropane	9.608	77	117028	5.077	ppbV		97
42) 1,2-dichloroethane	10.425	62	91803	5.245	ppbV		99
44) hexane	9.508	57	164995	5.121	ppbV		92
45) diisopropyl ether	9.517	87	83226	5.069	ppbV		94
46) tert-butyl ethyl ether	10.133	59	240545	5.024	ppbV		100
48) 1,1,1-trichloroethane	10.708	97	133284	5.130	ppbV		99
49) 1,1-dichloropropene	11.080	75	139732	5.090	ppbV		99
50) benzene	11.233	78	338996	5.129	ppbV		100
51) thiophene	11.380	84	176908	5.130	ppbV		98
52) carbon tetrachloride	11.407	117	129073	5.082	ppbV		98
53) cyclohexane	11.547	56	174326	5.064	ppbV		99
54) tert-amyl methyl ether	11.940	73	220277	4.868	ppbV		100
55) dibromomethane	12.147	93	98757	5.202	ppbV		97
56) 1,2-dichloropropane	12.180	63	115609	5.131	ppbV		99
57) bromodichloromethane	12.407	83	171018	5.137	ppbV		99
58) 1,4-dioxane	12.453	88	72010	4.976	ppbV		98
59) trichloroethene	12.460	130	135697	5.160	ppbV		99
60) 2,2,4-trimethylpentane	12.507	57	538516M6	5.115	ppbV		
61) methyl methacrylate	12.713	41	111280	4.998	ppbV		100
62) heptane	12.827	43	217568	5.111	ppbV		99
63) cis-1,3-dichloropropene	13.467	75	159119	4.974	ppbV		100
64) 4-methyl-2-pentanone	13.508	43	240471	5.061	ppbV		99
65) trans-1,3-dichloropropene	14.083	75	144300	4.959	ppbV		98
66) 1,1,2-trichloroethane	14.283	97	131707	5.169	ppbV		99

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171760.D
Acq On : 21 May 2018 6:58 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD5.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:35:07 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.600	91	379890	5.131	ppbV	98
70) 2-methylthiophene	14.675	97	262739	5.148	ppbV	99
71) 1,3-dichloropropane	14.633	76	184156	5.200	ppbV	99
72) 2-hexanone	14.900	43	224035	5.136	ppbV	99
73) 3-methylthiophene	14.867	97	273066	5.084	ppbV	99
74) dibromochloromethane	15.058	129	178910	5.158	ppbV	99
75) 1,2-dibromoethane	15.308	107	198403	5.170	ppbV	98
76) butyl acetate	15.567	73	42411	4.944	ppbV	92
77) octane	15.658	85	145534	5.136	ppbV	97
78) tetrachloroethene	15.783	166	160208	5.208	ppbV	99
79) 1,1,1,2-tetrachloroethane	16.425	131	133748	5.085	ppbV	99
80) chlorobenzene	16.442	112	332784	5.107	ppbV	99
81) ethylbenzene	16.800	91	484370	5.082	ppbV	100
82) 2-ethylthiophene	16.833	97	310499	5.148	ppbV	99
83) m+p-xylene	16.967	91	802521	10.339	ppbV	100
84) bromoform	17.025	173	163024	5.154	ppbV	97
85) styrene	17.283	104	344970	5.088	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.375	83	304815	5.196	ppbV	99
87) o-xylene	17.375	91	404759	5.225	ppbV	99
88) 1,2,3-trichloropropane	17.492	75	229614	5.214	ppbV	99
89) nonane	17.583	43	339850	5.257	ppbV	98
91) isopropylbenzene	17.892	105	557382	5.196	ppbV	99
92) bromobenzene	17.967	77	291018	5.165	ppbV	98
93) 2-chlorotoluene	18.292	126	158281	5.070	ppbV	97
94) n-propylbenzene	18.325	120	187812	5.041	ppbV	93
95) 4-chlorotoluene	18.350	126	157427	5.076	ppbV	96
96) 4-ethyl toluene	18.442	105	610892	5.168	ppbV	99
97) 1,3,5-trimethylbenzene	18.508	105	585243	5.187	ppbV	98
98) tert-butylbenzene	18.850	119	530163	5.169	ppbV	99
99) 1,2,4-trimethylbenzene	18.850	105	509896	5.160	ppbV	99
100) decane	18.933	57	364922	5.110	ppbV	99
101) Benzyl Chloride	18.967	91	317811	4.878	ppbV	98
102) 1,3-dichlorobenzene	18.983	146	310909	5.188	ppbV	99
103) 1,4-dichlorobenzene	19.033	146	307521	5.088	ppbV	99
104) sec-butylbenzene	19.075	105	727729	5.153	ppbV	100
105) 1,2,3-trimethylbenzene	19.200	105	389440	5.190	ppbV	98
106) p-isopropyltoluene	19.200	119	618168M6	5.162	ppbV	
107) 1,2-dichlorobenzene	19.325	146	289476	5.143	ppbV	99
108) n-butylbenzene	19.550	91	498525	5.025	ppbV	98
109) indan	19.375	117	453277	5.165	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171760.D
Acq On : 21 May 2018 6:58 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD5.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:35:07 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

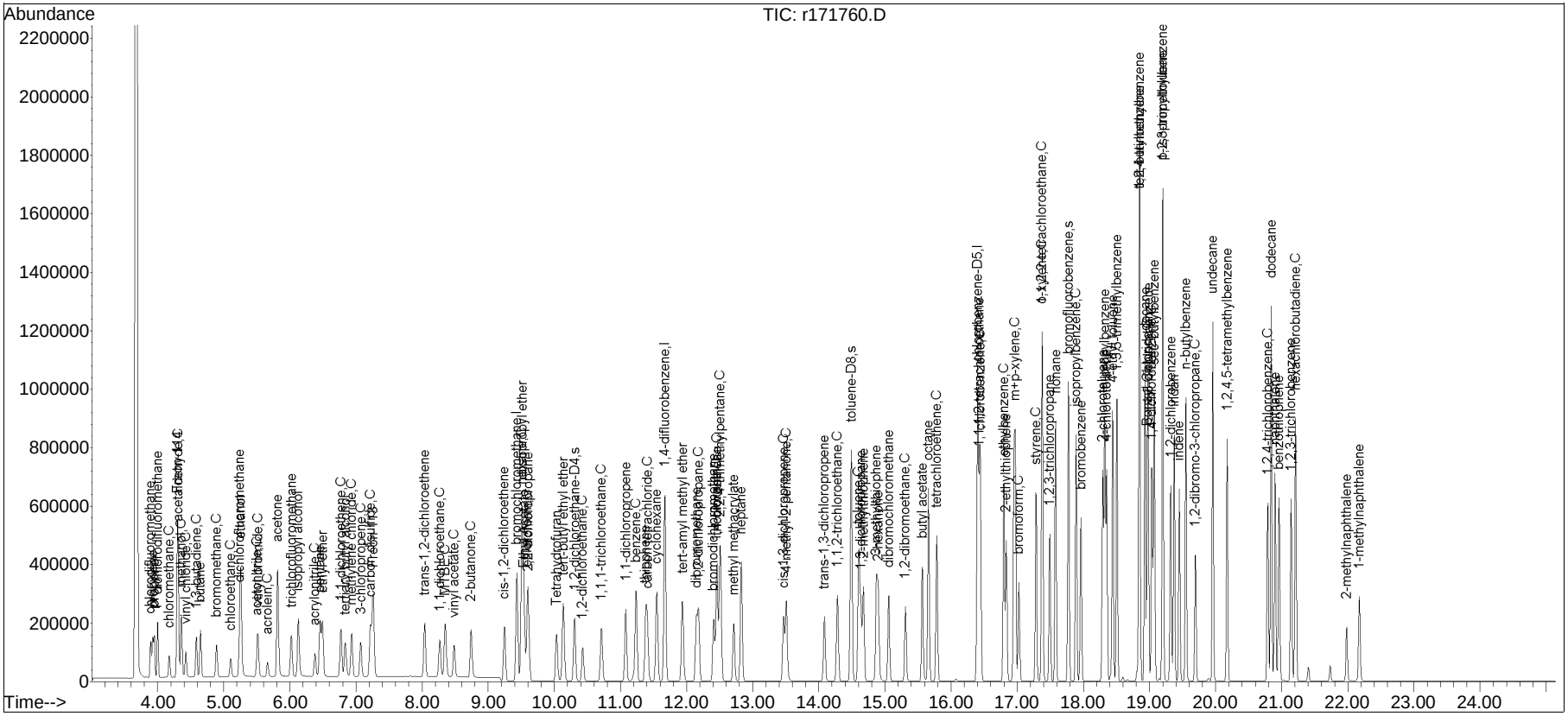
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.450	115	336808	5.074	ppbV	97
111) 1,2-dibromo-3-chloropr...	19.692	75	112882	5.021	ppbV	96
112) undecane	19.958	57	381711	4.948	ppbV	97
113) 1,2,4,5-tetramethylben...	20.175	119	435199	4.835	ppbV	99
114) dodecane	20.842	57	413114	4.997	ppbV	98
115) 1,2,4-trichlorobenzene	20.792	180	211473	4.616	ppbV	97
116) naphthalene	20.900	128	596614M6	4.733	ppbV	
117) 1,2,3-trichlorobenzene	21.142	180	215981	4.832	ppbV	99
118) benzothiophene	20.958	134	512119	4.749	ppbV	99
119) hexachlorobutadiene	21.208	225	199329	4.939	ppbV	99
120) 2-methylnaphthalene	21.983	142	105851	4.271	ppbV	98
121) 1-methylnaphthalene	22.175	142	167585	4.465	ppbV	100

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

Sub List : Default - All compounds listed8\180521T_ICAL\r171761.D

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171760.D
Acq On : 21 May 2018 6:58 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD5.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

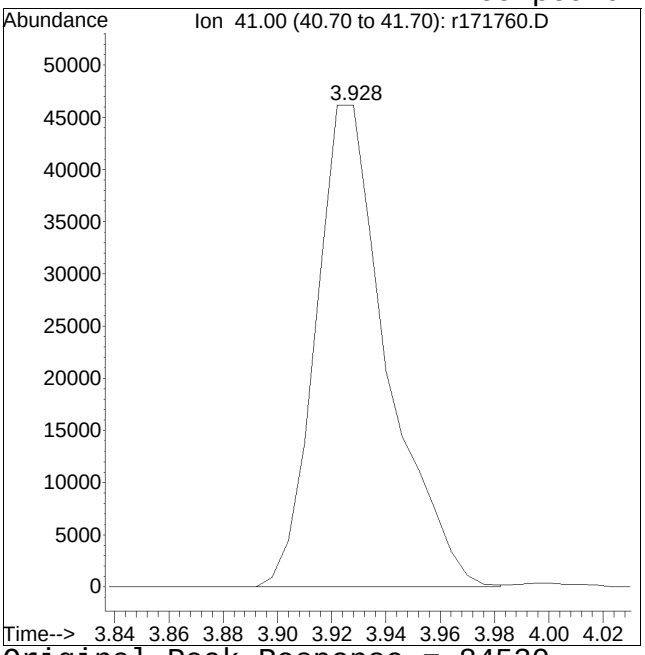
Quant Time: May 22 12:35:07 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration



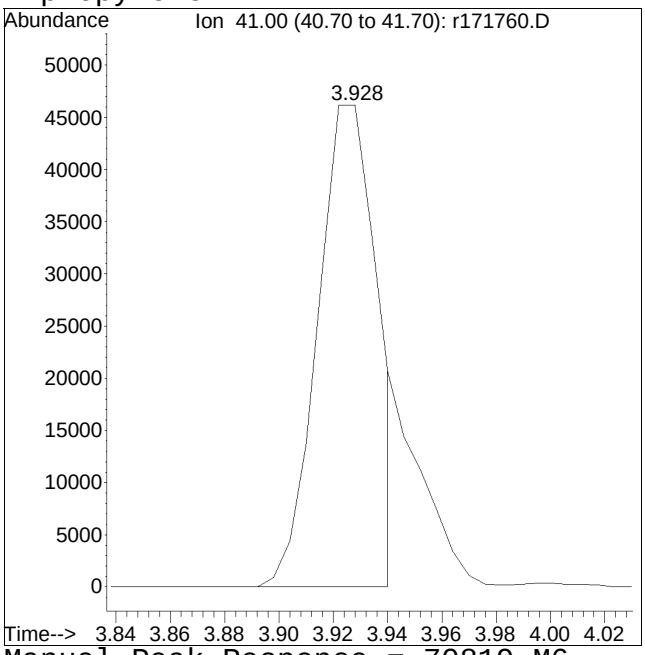
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171760.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 6:58 PM Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 5/22/2018 12:29 pm

Compound #3: propylene



Original Peak Response = 84530



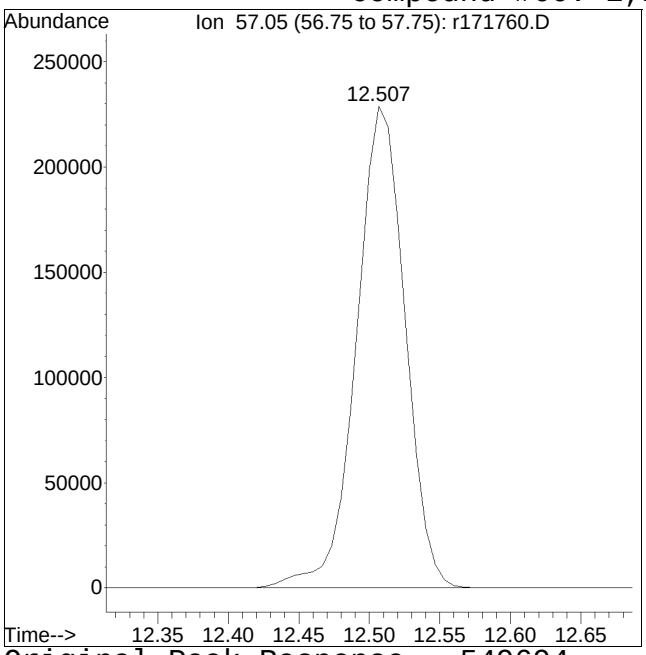
Manual Peak Response = 70819 M6

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

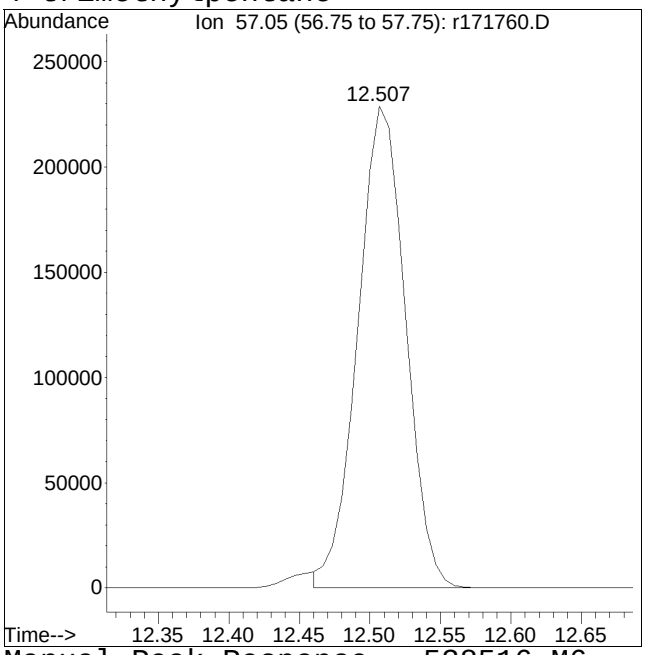
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171760.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 6:58 PM Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 5/22/2018 12:29 pm

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 549694



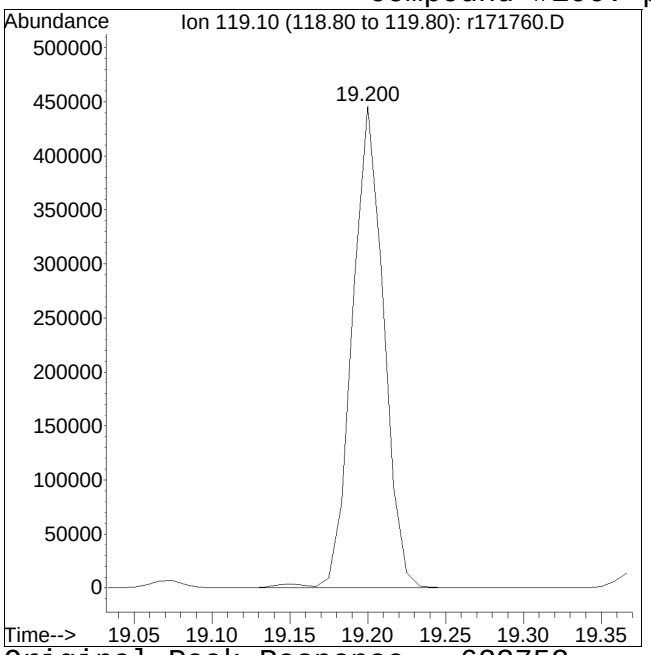
Manual Peak Response = 538516 M6

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

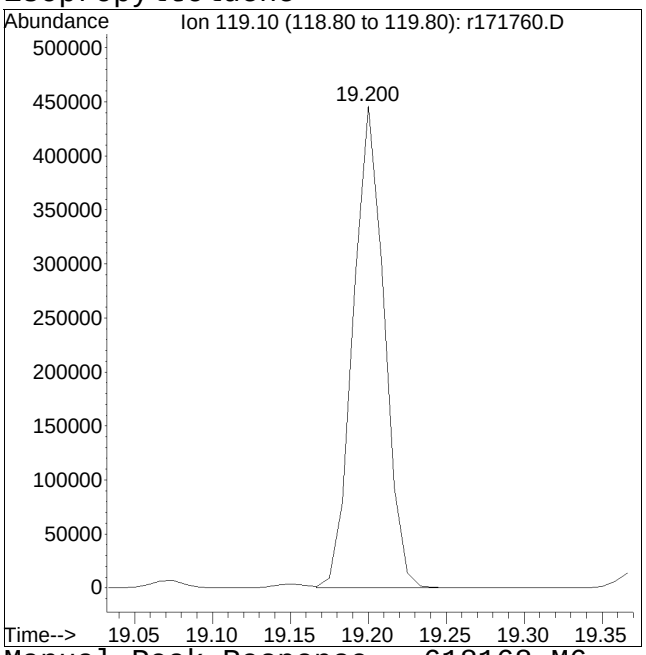
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171760.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 6:58 PM Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 5/22/2018 12:29 pm

Compound #106: p-isopropyltoluene



Original Peak Response = 623752



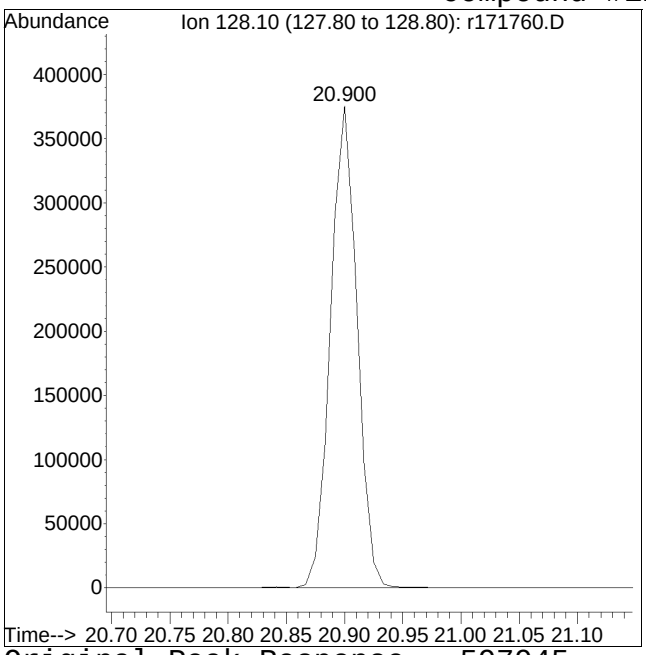
Manual Peak Response = 618168 M6

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

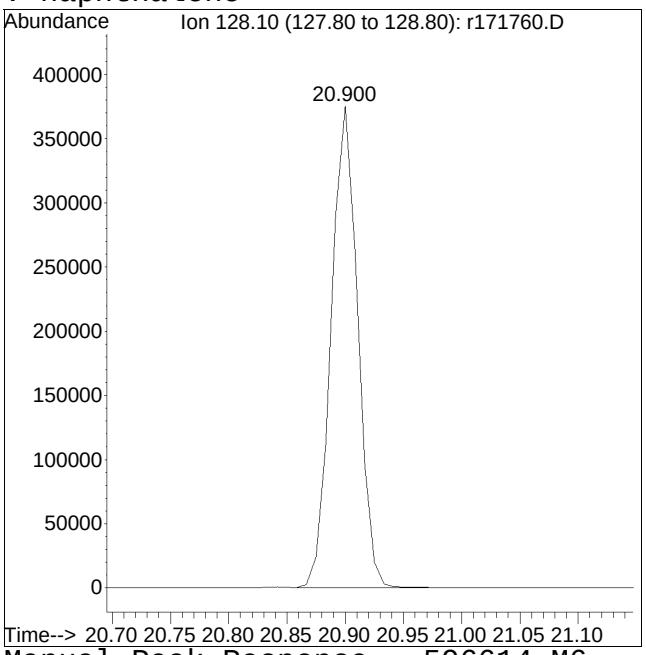
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171760.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 6:58 PM Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 5/22/2018 12:29 pm

Compound #116: naphthalene



Original Peak Response = 597945



Manual Peak Response = 596614 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171761.D
Acq On : 21 May 2018 7:38 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD10.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:23:16 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Apr 16 13:47:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.433	49	237626	10.000	ppbV	#-0.07
Standard Area = 237626			Recovery = 100.00%			
43) 1,4-difluorobenzene	11.667	114	677624	10.000	ppbV	-0.06
Standard Area = 677624			Recovery = 100.00%			
67) chlorobenzene-D5	16.400	54	99670	10.000	ppbV	0.02
Standard Area = 99670			Recovery = 100.00%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.300	65	144603	11.020	ppbV	-0.07
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.20%			
69) toluene-D8	14.492	98	654640	11.963	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 119.63%			
90) bromofluorobenzene	17.775	95	403945	14.600	ppbV	0.09
Spiked Amount 10.000	Range 70 - 130		Recovery = 146.00%#			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.892	51	251296	9.765	ppbV	96
3) propylene	3.922	41	137709M6	8.162	ppbV	
4) propane	3.952	29	176254	7.981	ppbV	96
5) dichlorodifluoromethane	4.000	85	285230	9.972	ppbV	100
6) chloromethane	4.174	50	147899	7.763	ppbV	100
7) Freon-114	4.300	85	405440	9.346	ppbV	94
8) methanol	4.360	31	316541	37.183	ppbV	98
9) vinyl chloride	4.426	62	170281	7.817	ppbV	100
10) 1,3-butadiene	4.582	54	137179	8.107	ppbV	82
11) butane	4.648	43	236777	7.207	ppbV	99
12) acetaldehyde	4.312	29	310753	36.925	ppbV	97
13) bromomethane	4.888	94	156938	9.252	ppbV	98
14) chloroethane	5.104	64	93703	8.614	ppbV	99
15) ethanol	5.257	31	581169	38.271	ppbV	93
16) dichlorofluoromethane	5.240	67	281621	8.853	ppbV	98
17) vinyl bromide	5.517	106	158584	9.642	ppbV	100
18) acrolein	5.660	56	76737	8.140	ppbV	96
19) acetone	5.810	43	792705	36.360	ppbV	95
20) acetonitrile	5.503	41	133563	6.158	ppbV	97
21) trichlorofluoromethane	6.020	101	251690	11.200	ppbV	100
22) isopropyl alcohol	6.123	45	495659	17.786	ppbV	98
23) acrylonitrile	6.377	53	134529	7.964	ppbV	99
24) pentane	6.457	43	279812	7.332	ppbV	96

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171761.D
Acq On : 21 May 2018 7:38 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD10.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:23:16 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Apr 16 13:47:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.490	31	229191	6.874	ppbV	#	87
26) 1,1-dichloroethene	6.768	61	212640	8.397	ppbV		91
27) tertiary butyl alcohol	6.834	59	220956	8.592	ppbV		96
28) methylene chloride	6.930	49	188243	8.053	ppbV	#	81
29) 3-chloropropene	7.068	41	199827	6.735	ppbV	#	94
30) carbon disulfide	7.218	76	510456	9.047	ppbV		96
31) Freon 113	7.254	101	314695	9.688	ppbV		95
32) trans-1,2-dichloroethene	8.033	61	222753	8.560	ppbV		87
33) 1,1-dichloroethane	8.267	63	280246	8.472	ppbV		99
34) MTBE	8.342	73	360374	9.255	ppbV		94
35) vinyl acetate	8.483	43	437057	9.602	ppbV		98
36) 2-butanone	8.733	43	415067	9.849	ppbV		94
37) cis-1,2-dichloroethene	9.242	61	261861	10.922	ppbV		92
38) Ethyl Acetate	9.542	61	68859	10.429	ppbV		96
39) chloroform	9.592	83	315452	10.710	ppbV		98
40) Tetrahydrofuran	10.025	42	256704	9.806	ppbV		93
41) 2,2-dichloropropane	9.608	77	236401	11.508	ppbV		95
42) 1,2-dichloroethane	10.425	62	179516	10.525	ppbV		93
44) hexane	9.508	57	328024	7.699	ppbV		91
45) diisopropyl ether	9.517	87	167140	8.684	ppbV		79
46) tert-butyl ethyl ether	10.133	59	487425	7.538	ppbV		96
48) 1,1,1-trichloroethane	10.708	97	264522	8.950	ppbV		98
49) 1,1-dichloropropene	11.080	75	279464	8.470	ppbV		94
50) benzene	11.233	78	672914	8.441	ppbV		95
51) thiophene	11.380	84	351079	9.756	ppbV		93
52) carbon tetrachloride	11.407	117	258580	9.544	ppbV		98
53) cyclohexane	11.547	56	350473	7.659	ppbV		92
54) tert-amyl methyl ether	11.933	73	460644	8.220	ppbV		96
55) dibromomethane	12.147	93	193262	8.362	ppbV		95
56) 1,2-dichloropropane	12.180	63	229380	7.692	ppbV		97
57) bromodichloromethane	12.407	83	338947	8.859	ppbV		100
58) 1,4-dioxane	12.447	88	147339	8.676	ppbV		90
59) trichloroethene	12.460	130	267715	8.984	ppbV		98
60) 2,2,4-trimethylpentane	12.507	57	1071875M6	7.691	ppbV		
61) methyl methacrylate	12.713	41	226662	8.450	ppbV	#	89
62) heptane	12.827	43	433387	7.671	ppbV		97
63) cis-1,3-dichloropropene	13.467	75	325691	8.344	ppbV		94
64) 4-methyl-2-pentanone	13.500	43	483703	7.686	ppbV		97
65) trans-1,3-dichloropropene	14.083	75	296267	8.457	ppbV		93
66) 1,1,2-trichloroethane	14.283	97	259412	8.731	ppbV		96

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171761.D
Acq On : 21 May 2018 7:38 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD10.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:23:16 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Apr 16 13:47:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	14.600	91	758648	10.102	ppbV		98
70) 2-methylthiophene	14.675	97	522969	10.603	ppbV	#	97
71) 1,3-dichloropropane	14.633	76	362883	10.046	ppbV		90
72) 2-hexanone	14.900	43	446939	9.004	ppbV		97
73) 3-methylthiophene	14.867	97	550362	11.658	ppbV		98
74) dibromochloromethane	15.058	129	355426	11.814	ppbV		99
75) 1,2-dibromoethane	15.308	107	393179	10.369	ppbV		97
76) butyl acetate	15.558	73	87905	10.523	ppbV		85
77) octane	15.658	85	290340	10.792	ppbV		76
78) tetrachloroethene	15.783	166	315196	11.244	ppbV		97
79) 1,1,1,2-tetrachloroethane	16.425	131	269505	11.858	ppbV		99
80) chlorobenzene	16.442	112	667661	10.950	ppbV		94
81) ethylbenzene	16.800	91	976677	10.579	ppbV		97
82) 2-ethylthiophene	16.833	97	617953	14.701	ppbV		98
83) m+p-xylene	16.967	91	1590730	21.610	ppbV		96
84) bromoform	17.025	173	324101	12.963	ppbV		97
85) styrene	17.283	104	694692	11.123	ppbV		98
86) 1,1,2,2-tetrachloroethane	17.375	83	601106	10.683	ppbV		99
87) o-xylene	17.375	91	793672	10.736	ppbV		97
88) 1,2,3-trichloropropane	17.492	75	451224	10.703	ppbV		95
89) nonane	17.583	43	662352	9.601	ppbV	#	96
91) isopropylbenzene	17.892	105	1099067	11.632	ppbV		98
92) bromobenzene	17.967	77	577293	10.498	ppbV		87
93) 2-chlorotoluene	18.292	126	319862	11.934	ppbV		91
94) n-propylbenzene	18.325	120	381733	12.359	ppbV		82
95) 4-chlorotoluene	18.350	126	317760M3	12.102	ppbV		
96) 4-ethyl toluene	18.442	105	1211267	12.026	ppbV		96
97) 1,3,5-trimethylbenzene	18.508	105	1156176	13.818	ppbV		95
98) tert-butylbenzene	18.850	119	1050909	12.807	ppbV		100
99) 1,2,4-trimethylbenzene	18.850	105	1012481	12.332	ppbV		95
100) decane	18.933	57	731684	10.476	ppbV	#	95
101) Benzyl Chloride	18.967	91	667513	13.024	ppbV		96
102) 1,3-dichlorobenzene	18.983	146	614034	12.573	ppbV		95
103) 1,4-dichlorobenzene	19.033	146	619284M4	12.923	ppbV		
104) sec-butylbenzene	19.075	105	1447028M3	12.580	ppbV		
105) 1,2,3-trimethylbenzene	19.200	105	768845	13.480	ppbV		92
106) p-isopropyltoluene	19.200	119	1227014M6	13.025	ppbV		
107) 1,2-dichlorobenzene	19.325	146	576738M3	13.016	ppbV		
108) n-butylbenzene	19.550	91	1016493M3	11.986	ppbV		
109) indan	19.375	117	899181	14.227	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171761.D
Acq On : 21 May 2018 7:38 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD10.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:23:16 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Apr 16 13:47:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

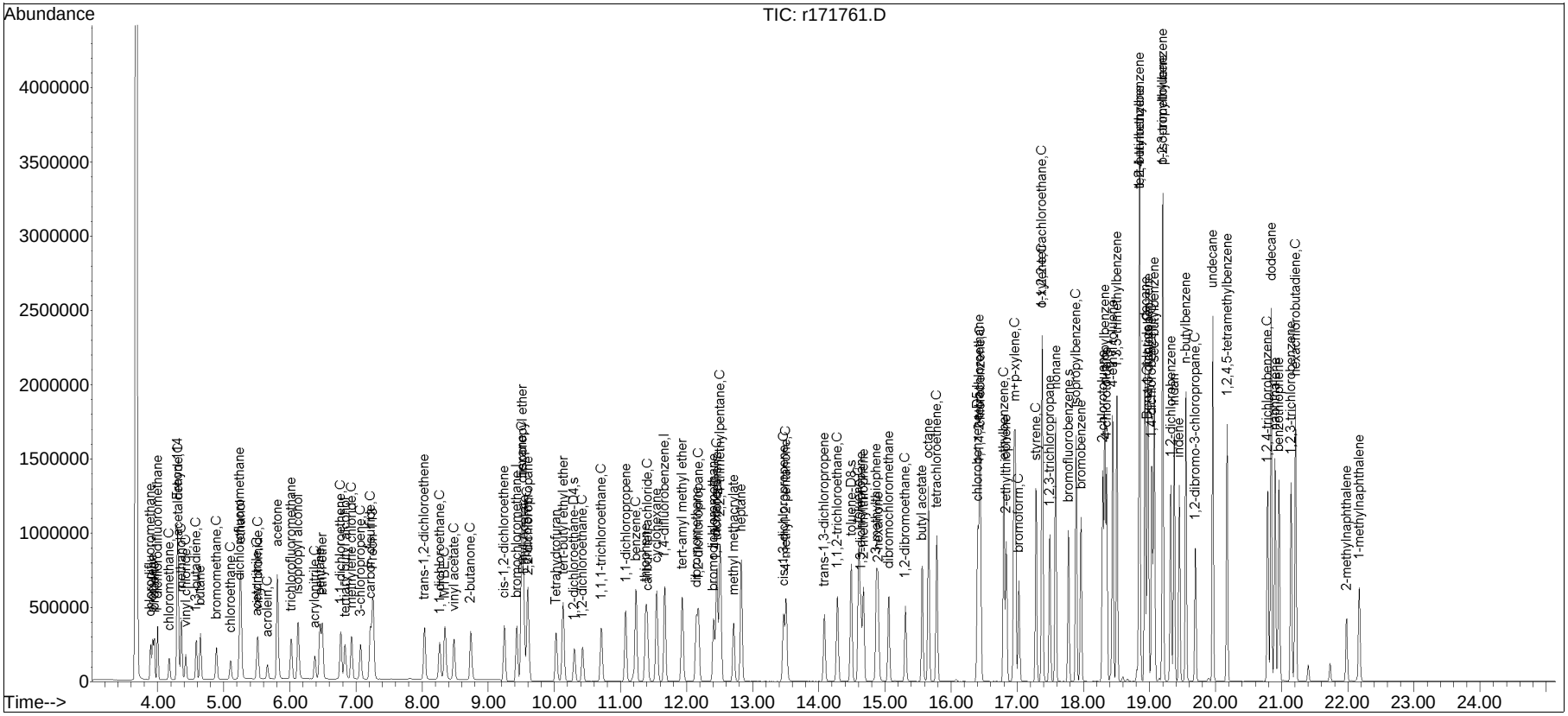
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.450	115	680176	21.029	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.692	75	230372M3	12.063	ppbV	
112) undecane	19.958	57	790527M3	10.874	ppbV	
113) 1,2,4,5-tetramethylben...	20.175	119	922249	11.627	ppbV	94
114) dodecane	20.842	57	847035	11.830	ppbV	92
115) 1,2,4-trichlorobenzene	20.783	180	469443	14.624	ppbV	93
116) naphthalene	20.900	128	1291732	13.111	ppbV	98
117) 1,2,3-trichlorobenzene	21.142	180	457956	15.248	ppbV	96
118) benzothiophene	20.958	134	1105019	12.081	ppbV #	96
119) hexachlorobutadiene	21.208	225	413528	15.539	ppbV	94
120) 2-methylnaphthalene	21.983	142	253971	10.171	ppbV	98
121) 1-methylnaphthalene	22.175	142	384541M3	11.426	ppbV	

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

Sub List : Default - All compounds listed8\180521T_ICAL\r171761.D

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171761.D
Acq On : 21 May 2018 7:38 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD10.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

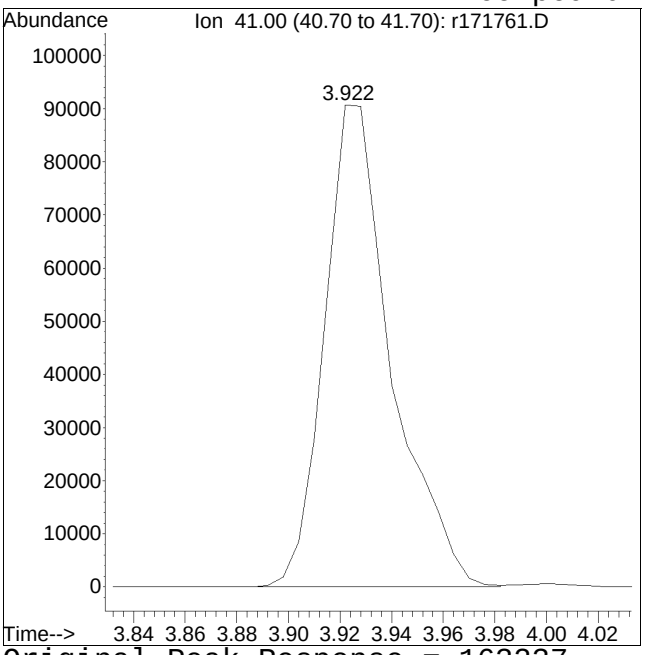
Quant Time: May 22 12:23:16 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Apr 16 13:47:49 2018
Response via : Initial Calibration



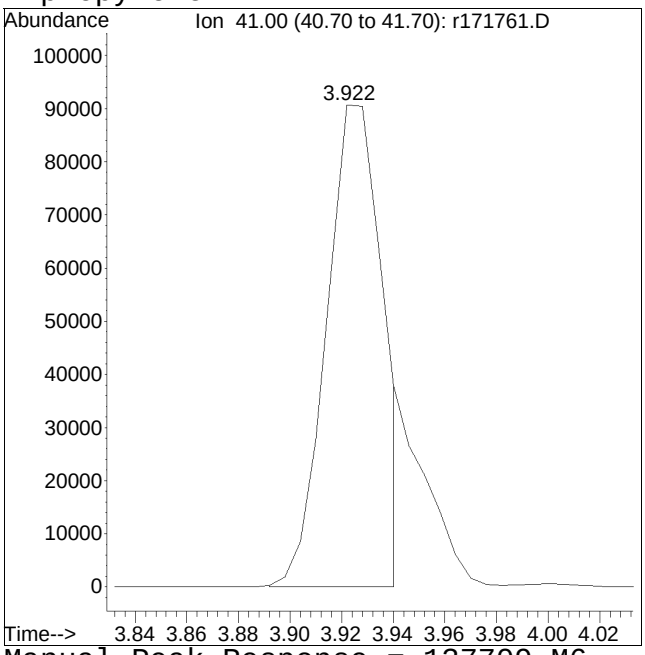
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171761.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 7:38 PM Instrument :
Sample : ITO15-SIMSTD10.0 Quant Date : 5/22/2018 9:28 am

Compound #3: propylene



Original Peak Response = 163237



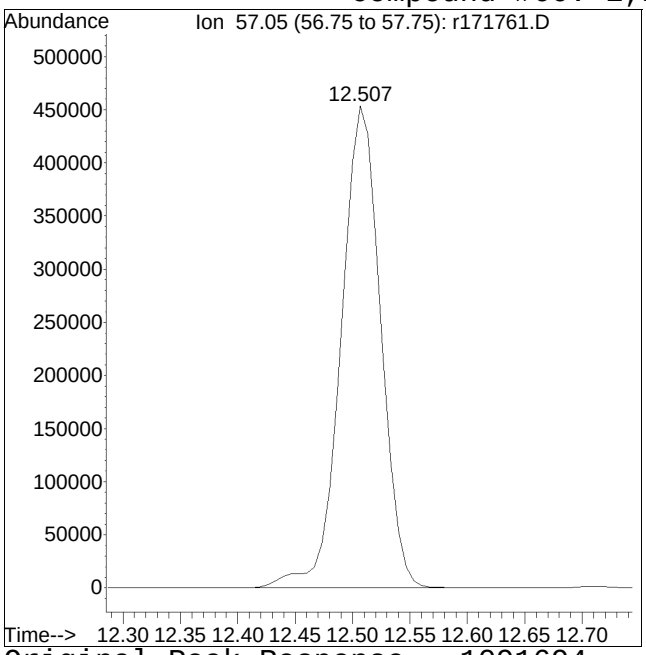
Manual Peak Response = 137709 M6

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

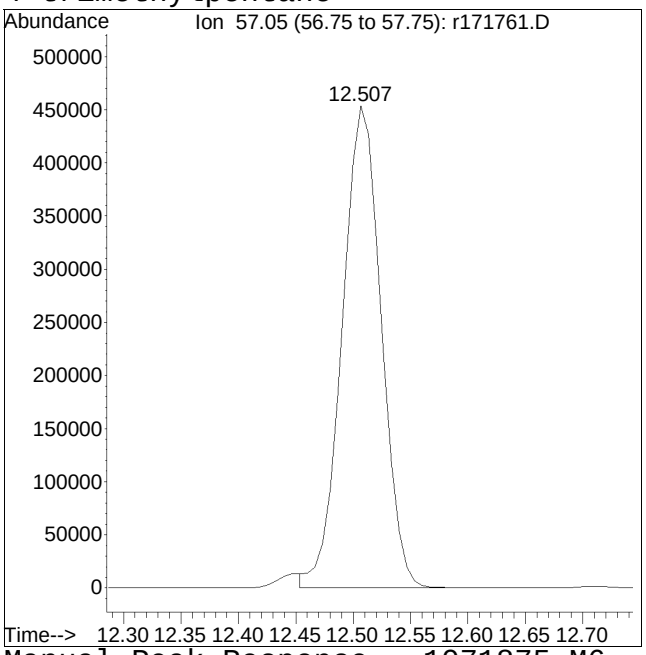
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171761.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 7:38 PM Instrument :
Sample : ITO15-SIMSTD10.0 Quant Date : 5/22/2018 9:28 am

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 1091694



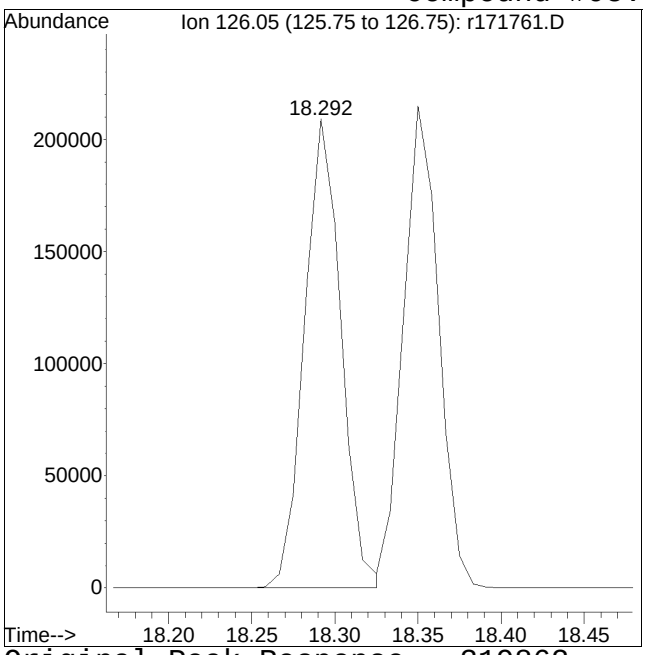
Manual Peak Response = 1071875 M6

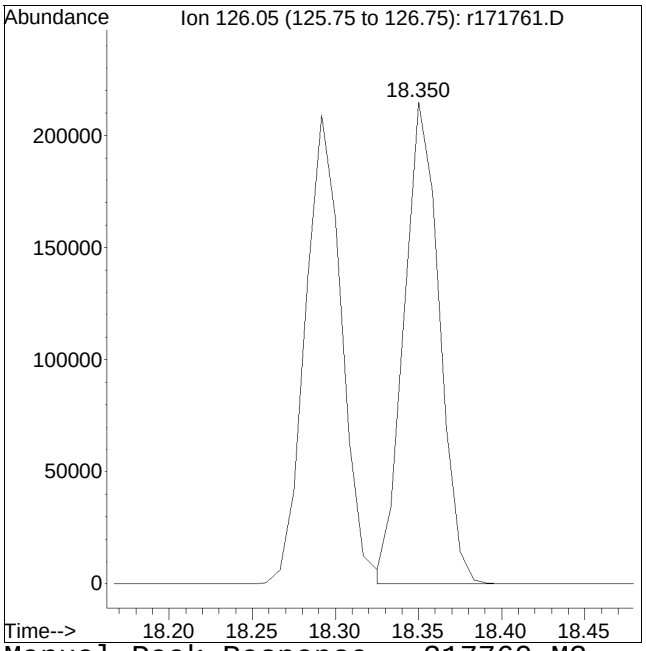
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171761.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 7:38 PM Instrument :
Sample : ITO15-SIMSTD10.0 Quant Date : 5/22/2018 9:28 am

Compound #95: 4-chlorotoluene



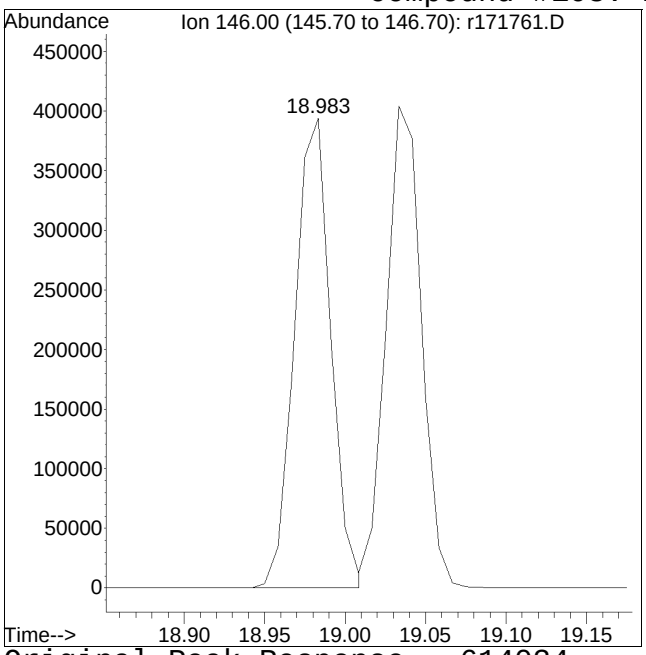


Original Peak Response = 319862 Manual Peak Response = 317760 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

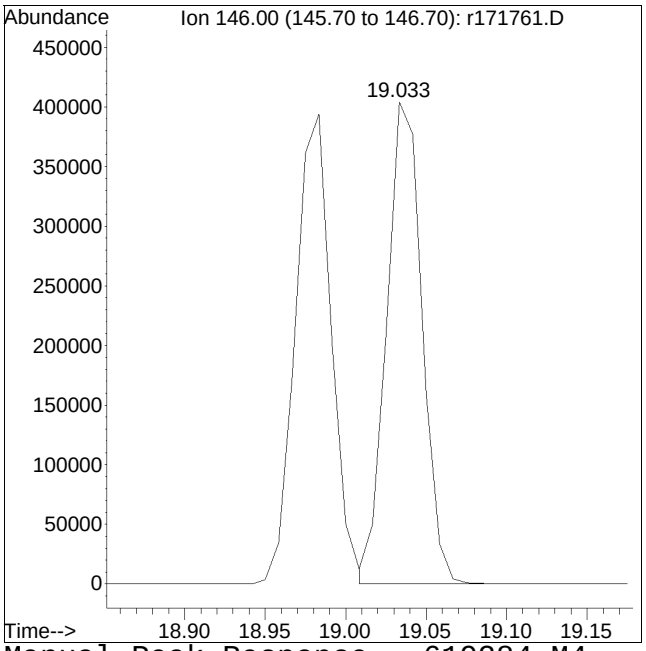
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171761.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 7:38 PM Instrument :
Sample : ITO15-SIMSTD10.0 Quant Date : 5/22/2018 9:28 am

Compound #103: 1,4-dichlorobenzene



Original Peak Response = 614034



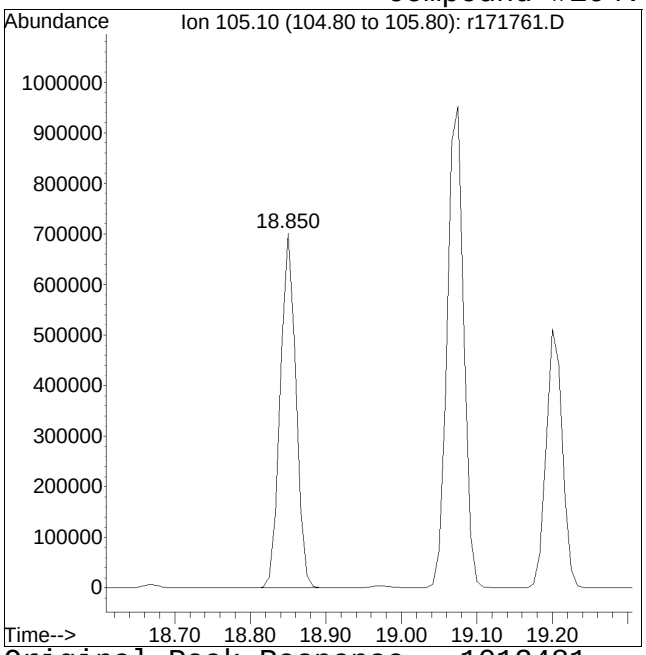
Manual Peak Response = 619284 M4

M4 = Poor automated baseline construction.

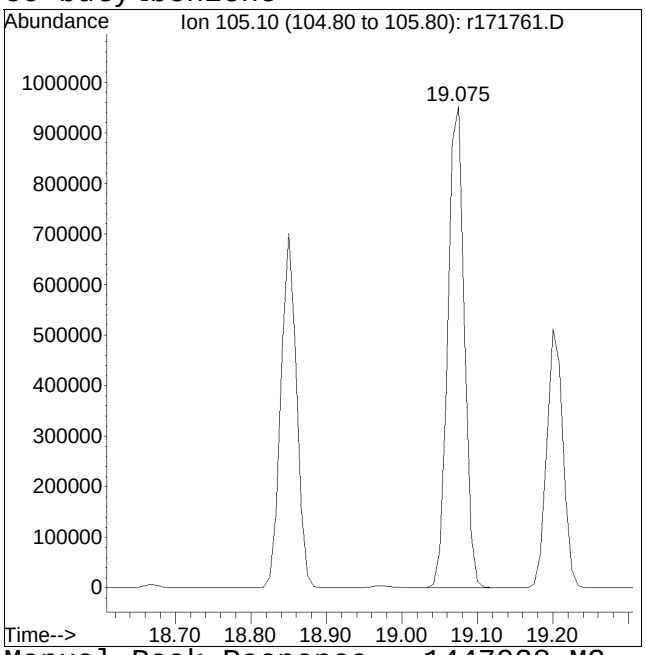
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171761.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 7:38 PM Instrument :
Sample : ITO15-SIMSTD10.0 Quant Date : 5/22/2018 9:28 am

Compound #104: sec-butylbenzene



Original Peak Response = 1012481



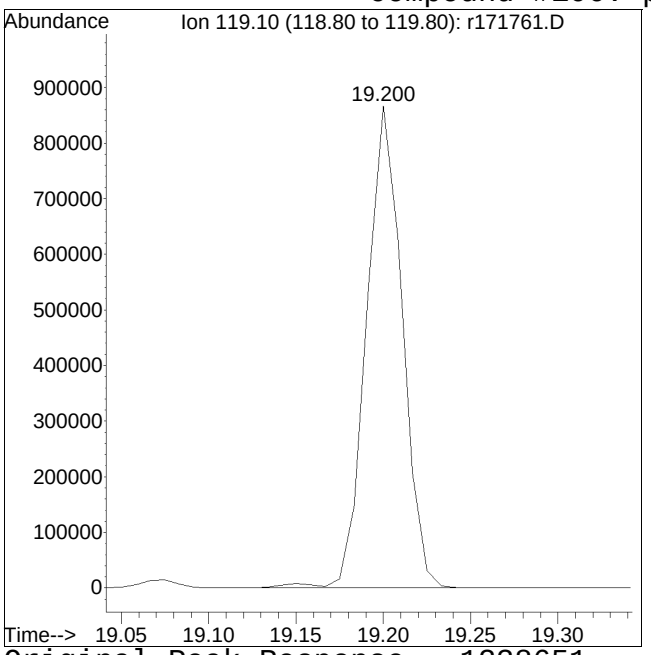
Manual Peak Response = 1447028 M3

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.

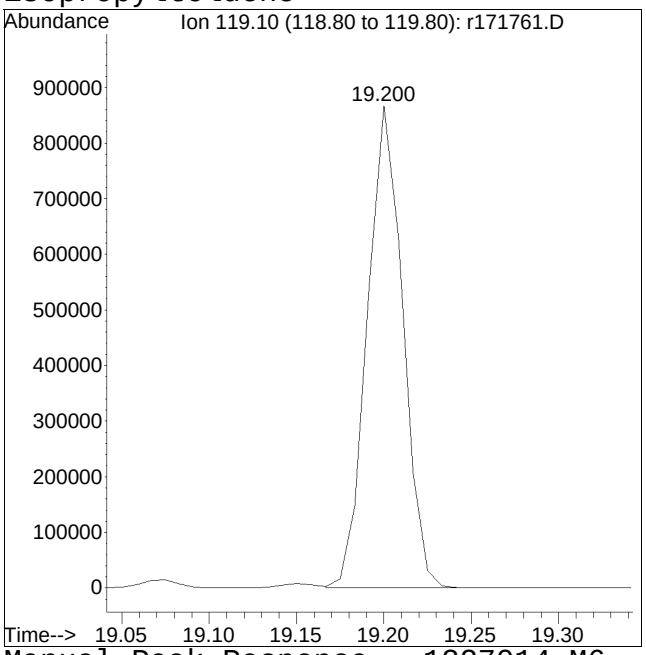
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171761.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 7:38 PM Instrument :
Sample : ITO15-SIMSTD10.0 Quant Date : 5/22/2018 9:28 am

Compound #106: p-isopropyltoluene



Original Peak Response = 1238651



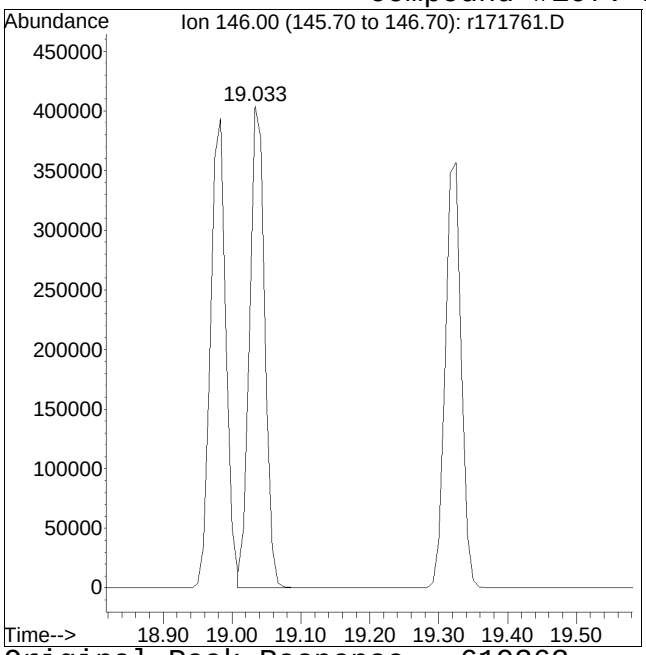
Manual Peak Response = 1227014 M6

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

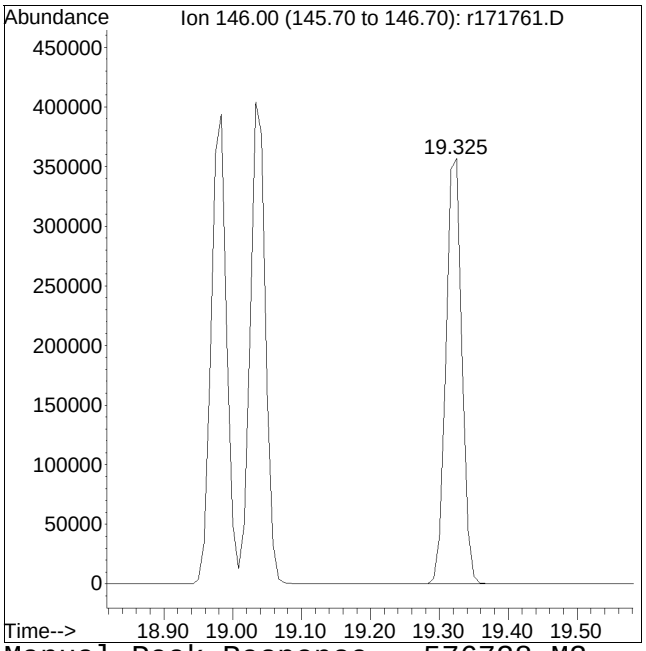
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171761.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 7:38 PM Instrument :
Sample : ITO15-SIMSTD10.0 Quant Date : 5/22/2018 9:28 am

Compound #107: 1,2-dichlorobenzene



Original Peak Response = 619363



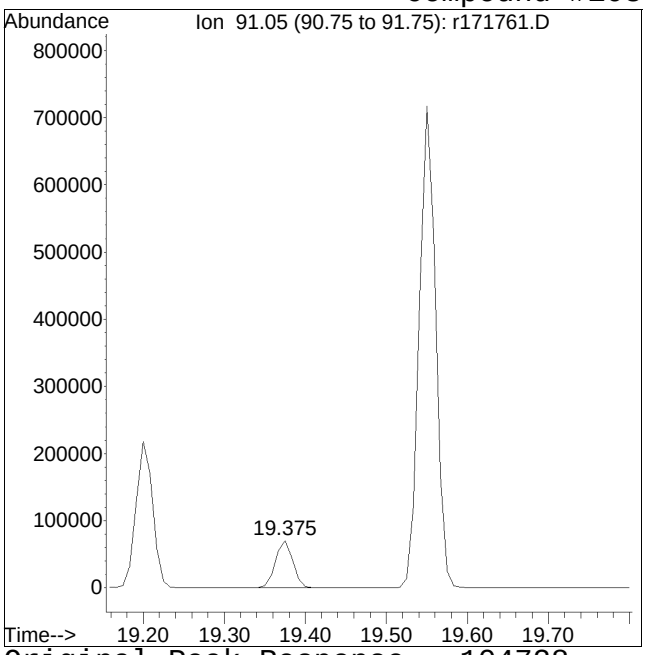
Manual Peak Response = 576738 M3

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.

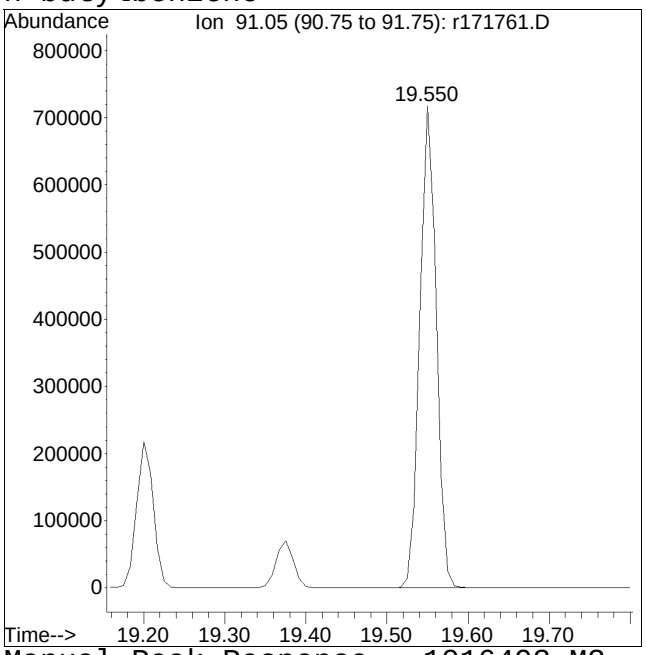
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171761.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 7:38 PM Instrument :
Sample : ITO15-SIMSTD10.0 Quant Date : 5/22/2018 9:28 am

Compound #108: n-butylbenzene



Original Peak Response = 104728



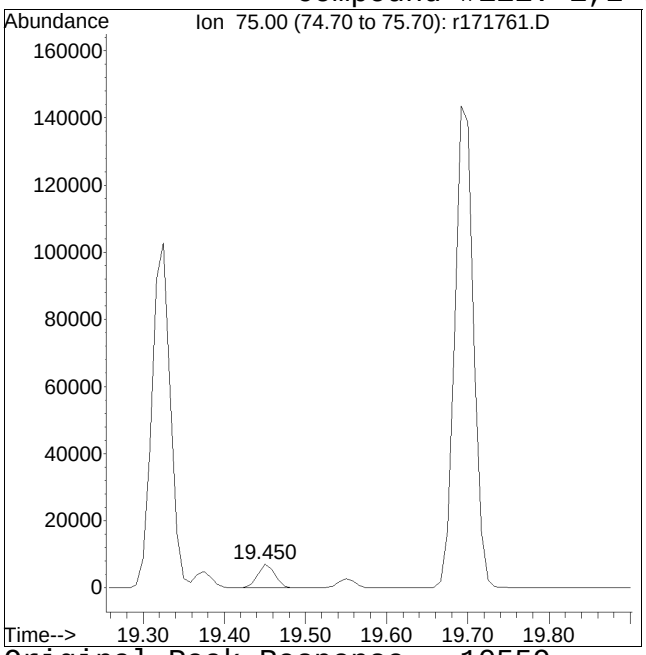
Manual Peak Response = 1016493 M3

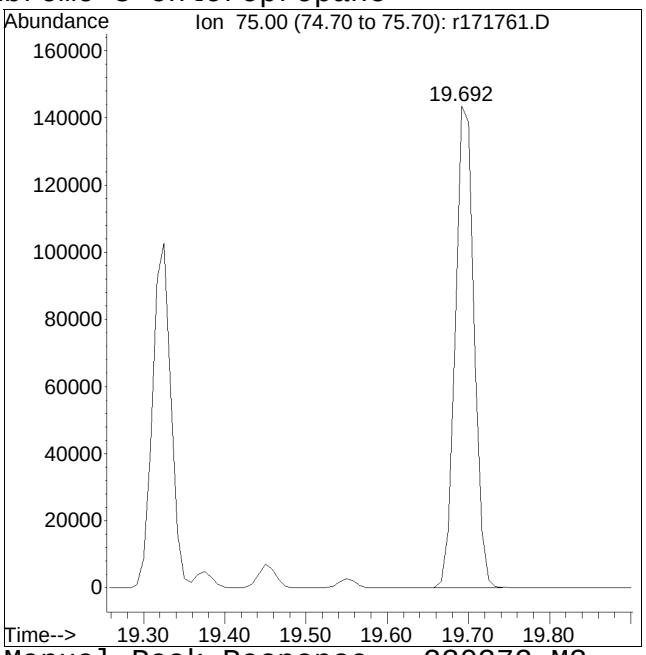
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171761.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 7:38 PM Instrument :
Sample : ITO15-SIMSTD10.0 Quant Date : 5/22/2018 9:28 am

Compound #111: 1,2-dibromo-3-chloropropane





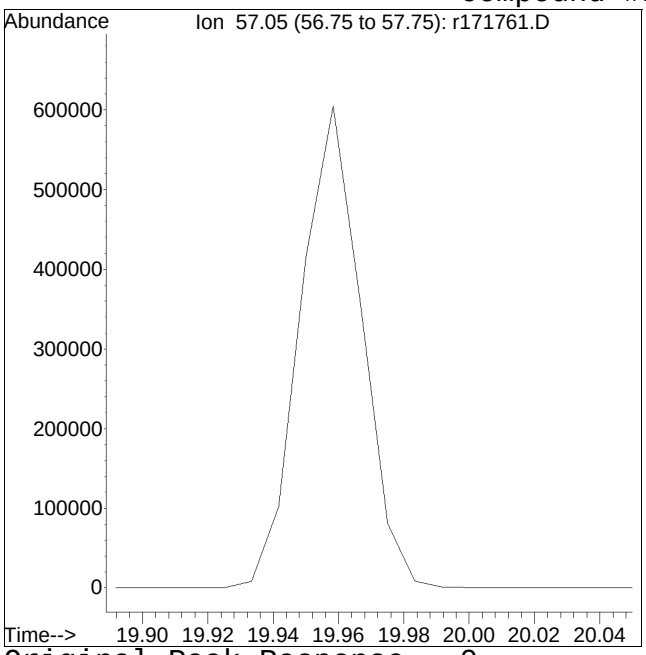
Original Peak Response = 10559 Manual Peak Response = 230372 M3

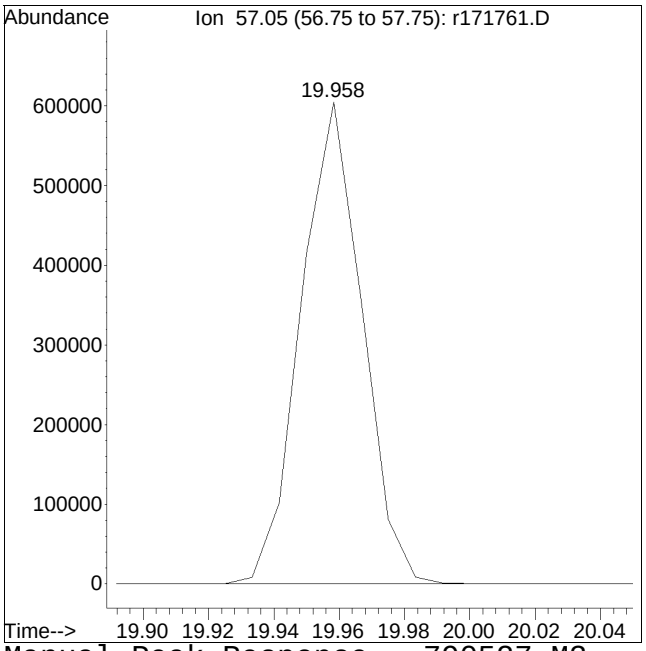
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171761.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 7:38 PM Instrument :
Sample : ITO15-SIMSTD10.0 Quant Date : 5/22/2018 9:28 am

Compound #112: undecane



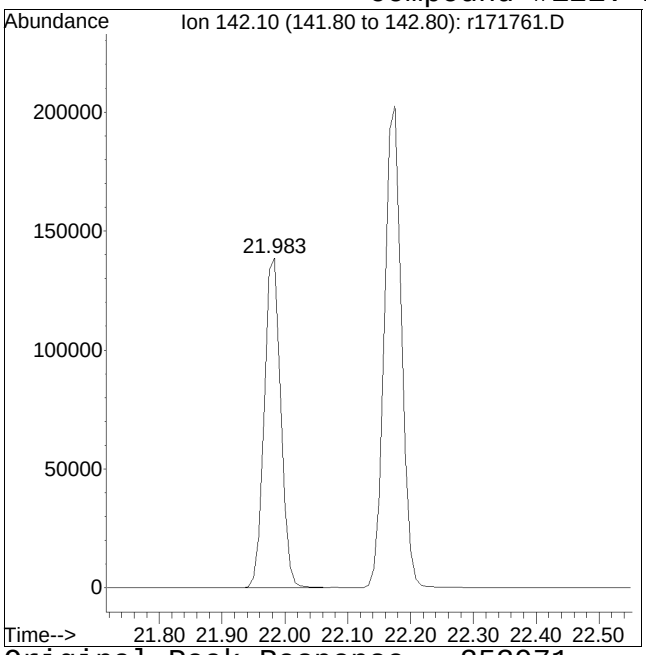


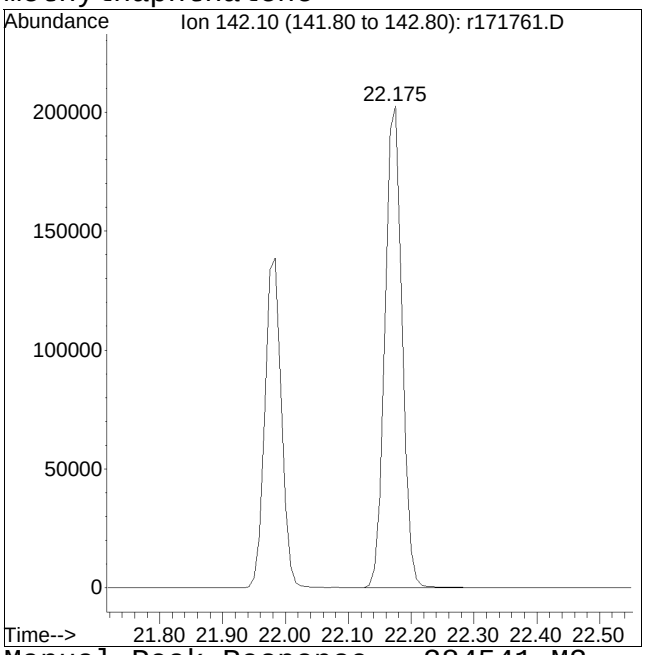
Original Peak Response = 0 Manual Peak Response = 790527 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171761.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 7:38 PM Instrument :
Sample : ITO15-SIMSTD10.0 Quant Date : 5/22/2018 9:28 am

Compound #121: 1-methylnaphthalene





Original Peak Response = 253971 Manual Peak Response = 384541 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 : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171762.D
Acq On : 21 May 2018 8:16 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD20
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:35:35 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.433	49	232183	10.000	ppbV	0.00
Standard Area = 237626			Recovery = 97.71%			
43) 1,4-difluorobenzene	11.667	114	656765	10.000	ppbV	0.00
Standard Area = 677624			Recovery = 96.92%			
67) chlorobenzene-D5	16.400	54	95797	10.000	ppbV	0.00
Standard Area = 99670			Recovery = 96.11%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.300	65	136202	9.718	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.18%			
69) toluene-D8	14.492	98	638933	10.155	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.55%			
90) bromofluorobenzene	17.775	95	394781	10.168	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.68%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.892	51	482029	19.631	ppbV	100
3) propylene	3.922	41	263267M6	19.566	ppbV	
4) propane	3.952	29	332093	19.283	ppbV	100
5) dichlorodifluoromethane	4.000	85	553962	19.877	ppbV	100
6) chloromethane	4.174	50	290146	20.078	ppbV	100
7) Freon-114	4.294	85	790737	19.960	ppbV	96
8) methanol	4.360	31	608572	98.382	ppbV	97
9) vinyl chloride	4.426	62	346846	20.847	ppbV	99
10) 1,3-butadiene	4.582	54	274546	20.483	ppbV	99
11) butane	4.648	43	461762	19.959	ppbV	98
12) acetaldehyde	4.312	29	854537	140.718	ppbV	100
13) bromomethane	4.888	94	321652	20.976	ppbV	99
14) chloroethane	5.104	64	184021	20.099	ppbV	98
15) ethanol	5.260	31	1138602	100.254	ppbV	99
16) dichlorofluoromethane	5.240	67	569727	20.705	ppbV	99
17) vinyl bromide	5.517	106	335251	21.636	ppbV	96
18) acrolein	5.657	56	159926	21.329	ppbV	98
19) acetone	5.807	43	2108016	136.080	ppbV	97
20) acetonitrile	5.503	41	271195	20.781	ppbV	100
21) trichlorofluoromethane	6.020	101	522818	21.259	ppbV	98
22) isopropyl alcohol	6.127	45	1313498	67.803	ppbV	100
23) acrylonitrile	6.377	53	284102	21.613	ppbV	98
24) pentane	6.457	43	572975	20.957	ppbV	99

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171762.D
Acq On : 21 May 2018 8:16 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD20
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:35:35 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.490	31	473640	21.150	ppbV	100
26) 1,1-dichloroethene	6.768	61	444384	21.388	ppbV	99
27) tertiary butyl alcohol	6.834	59	471375	21.834	ppbV	98
28) methylene chloride	6.936	49	391291	21.274	ppbV	98
29) 3-chloropropene	7.068	41	414098	21.209	ppbV	99
30) carbon disulfide	7.218	76	1067398	21.401	ppbV	98
31) Freon 113	7.254	101	658579	21.418	ppbV	96
32) trans-1,2-dichloroethene	8.033	61	539342	24.780	ppbV	96
33) 1,1-dichloroethane	8.267	63	683167	24.949	ppbV	99
34) MTBE	8.342	73	875202	24.855	ppbV	98
35) vinyl acetate	8.483	43	945891	22.150	ppbV	99
36) 2-butanone	8.733	43	871487	21.489	ppbV	100
37) cis-1,2-dichloroethene	9.242	61	556723	21.759	ppbV	98
38) Ethyl Acetate	9.542	61	147683	21.950	ppbV	89
39) chloroform	9.592	83	664013	21.543	ppbV	99
40) Tetrahydrofuran	10.017	42	541334	21.582	ppbV	99
41) 2,2-dichloropropane	9.608	77	501554	21.714	ppbV	97
42) 1,2-dichloroethane	10.425	62	376308	21.454	ppbV	99
44) hexane	9.508	57	686384	21.589	ppbV	99
45) diisopropyl ether	9.517	87	353802	21.840	ppbV	96
46) tert-butyl ethyl ether	10.125	59	1034138	21.890	ppbV	99
48) 1,1,1-trichloroethane	10.708	97	561588	21.905	ppbV	99
49) 1,1-dichloropropene	11.080	75	603114	22.267	ppbV	99
50) benzene	11.233	78	1415076	21.697	ppbV	100
51) thiophene	11.380	84	1085138	31.890	ppbV	99
52) carbon tetrachloride	11.407	117	551132	21.991	ppbV	98
53) cyclohexane	11.547	56	744502	21.917	ppbV	98
54) tert-amyl methyl ether	11.933	73	990012	22.174	ppbV	98
55) dibromomethane	12.147	93	413903	22.097	ppbV	96
56) 1,2-dichloropropane	12.180	63	486212	21.870	ppbV	100
57) bromodichloromethane	12.407	83	725686	22.090	ppbV	99
58) 1,4-dioxane	12.447	88	317855	22.258	ppbV	99
59) trichloroethene	12.460	130	576465	22.217	ppbV	99
60) 2,2,4-trimethylpentane	12.507	57	2191325	21.093	ppbV	100
61) methyl methacrylate	12.707	41	713880	32.496	ppbV	98
62) heptane	12.827	43	874952	20.830	ppbV	96
63) cis-1,3-dichloropropene	13.467	75	708883	22.457	ppbV	100
64) 4-methyl-2-pentanone	13.500	43	1009684	21.537	ppbV	98
65) trans-1,3-dichloropropene	14.083	75	649423	22.616	ppbV	98
66) 1,1,2-trichloroethane	14.283	97	557232	22.163	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171762.D
Acq On : 21 May 2018 8:16 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD20
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:35:35 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	14.600	91	1609377	22.071	ppbV		100
70) 2-methylthiophene	14.675	97	1702312	33.867	ppbV		99
71) 1,3-dichloropropane	14.633	76	772145	22.138	ppbV		98
72) 2-hexanone	14.892	43	910679	21.200	ppbV	#	94
73) 3-methylthiophene	14.867	97	1744142	32.972	ppbV		99
74) dibromochloromethane	15.058	129	768932	22.509	ppbV		99
75) 1,2-dibromoethane	15.308	107	844927	22.358	ppbV		98
76) butyl acetate	15.558	73	189029	22.373	ppbV		96
77) octane	15.658	85	614085	22.006	ppbV		93
78) tetrachloroethene	15.783	166	687203	22.684	ppbV		99
79) 1,1,1,2-tetrachloroethane	16.425	131	580103	22.395	ppbV		99
80) chlorobenzene	16.442	112	1404688	21.890	ppbV		98
81) ethylbenzene	16.800	91	2044957	21.784	ppbV		98
82) 2-ethylthiophene	16.833	97	1849521	31.140	ppbV		96
83) m+p-xylene	16.967	91	3232323	42.283	ppbV		97
84) bromoform	17.025	173	705931	22.662	ppbV		98
85) styrene	17.283	104	1446643	21.666	ppbV		99
86) 1,1,2,2-tetrachloroethane	17.375	83	1188921	20.579	ppbV		99
87) o-xylene	17.383	91	1599509	20.968	ppbV		98
88) 1,2,3-trichloropropane	17.492	75	907858	20.933	ppbV		99
89) nonane	17.583	43	1267348	19.908	ppbV		95
91) isopropylbenzene	17.892	105	2225541	21.068	ppbV		100
92) bromobenzene	17.967	77	1161489	20.933	ppbV		97
93) 2-chlorotoluene	18.292	126	657425	21.384	ppbV		95
94) n-propylbenzene	18.325	120	771166	21.018	ppbV		91
95) 4-chlorotoluene	18.350	126	643067	21.056	ppbV		95
96) 4-ethyl toluene	18.442	105	2404528	20.654	ppbV		100
97) 1,3,5-trimethylbenzene	18.508	105	2240021	20.158	ppbV		99
98) tert-butylbenzene	18.850	119	2022229	20.021	ppbV		97
99) 1,2,4-trimethylbenzene	18.850	105	1902643	19.552	ppbV		99
100) decane	18.933	57	1417326	20.154	ppbV		95
101) Benzyl Chloride	18.967	91	1356605	21.145	ppbV		99
102) 1,3-dichlorobenzene	18.983	146	1225349	20.763	ppbV		96
103) 1,4-dichlorobenzene	19.033	146	1205477	20.253	ppbV		99
104) sec-butylbenzene	19.075	105	2774298	19.948	ppbV		98
105) 1,2,3-trimethylbenzene	19.200	105	2116360	28.639	ppbV		94
106) p-isopropyltoluene	19.200	119	2401801	20.366	ppbV		99
107) 1,2-dichlorobenzene	19.317	146	1124437	20.285	ppbV		95
108) n-butylbenzene	19.550	91	1951506	19.975	ppbV		98
109) indan	19.375	117	2509692	29.039	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171762.D
Acq On : 21 May 2018 8:16 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD20
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:35:35 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

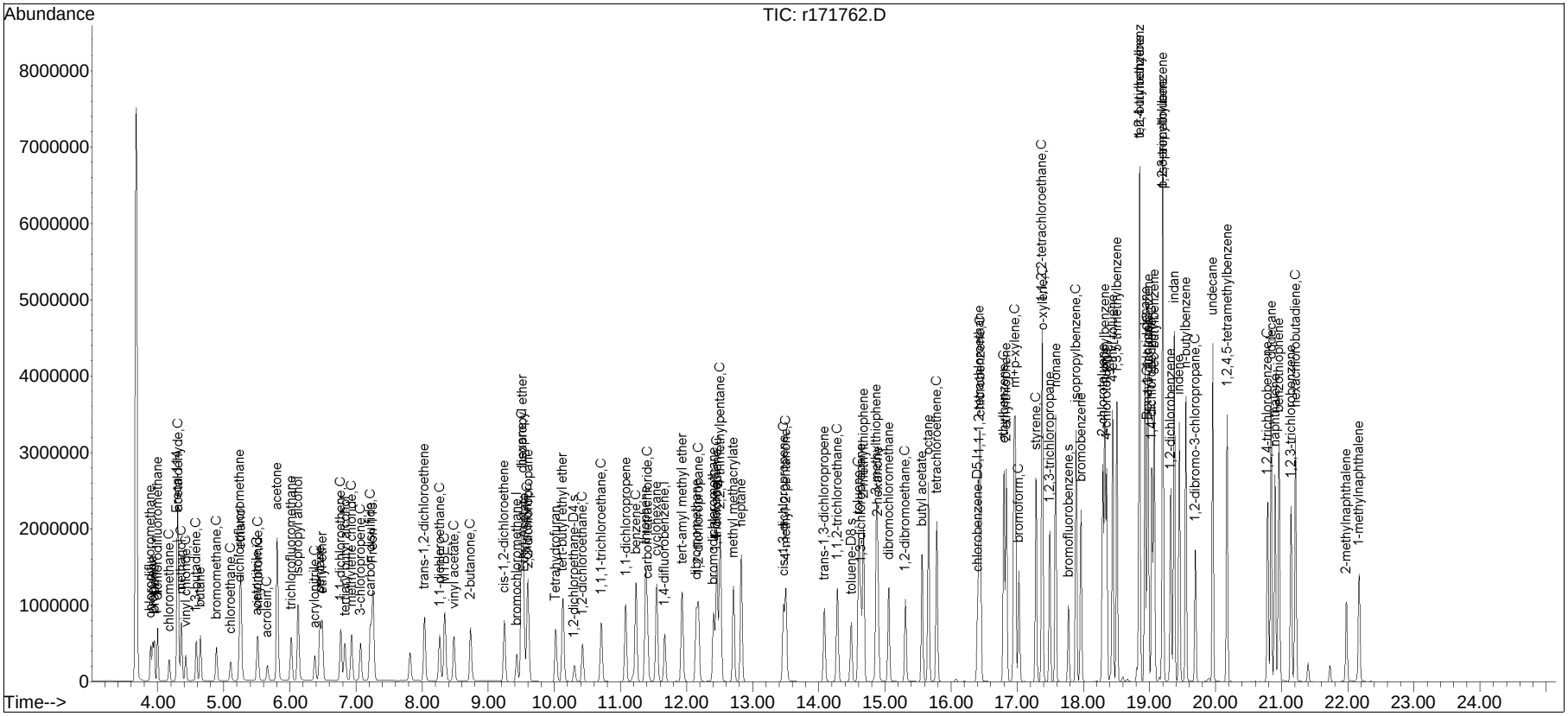
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.450	115	1793004	27.427	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.692	75	435698	19.677	ppbV	96
112) undecane	19.958	57	1458603	19.197	ppbV	97
113) 1,2,4,5-tetramethylben...	20.175	119	1908375	21.529	ppbV	99
114) dodecane	20.842	57	1329654	16.332	ppbV	97
115) 1,2,4-trichlorobenzene	20.783	180	890460	19.735	ppbV	99
116) naphthalene	20.900	128	2298294	18.512	ppbV	100
117) 1,2,3-trichlorobenzene	21.142	180	827337	18.796	ppbV	99
118) benzothiophene	20.958	134	2590092	24.387	ppbV	100
119) hexachlorobutadiene	21.208	225	723411	18.201	ppbV	99
120) 2-methylnaphthalene	21.975	142	637401	26.112	ppbV	98
121) 1-methylnaphthalene	22.167	142	879565	23.798	ppbV	99

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

Sub List : Default - All compounds listed8\180521T_ICAL\r171761.D

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171762.D
Acq On : 21 May 2018 8:16 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD20
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

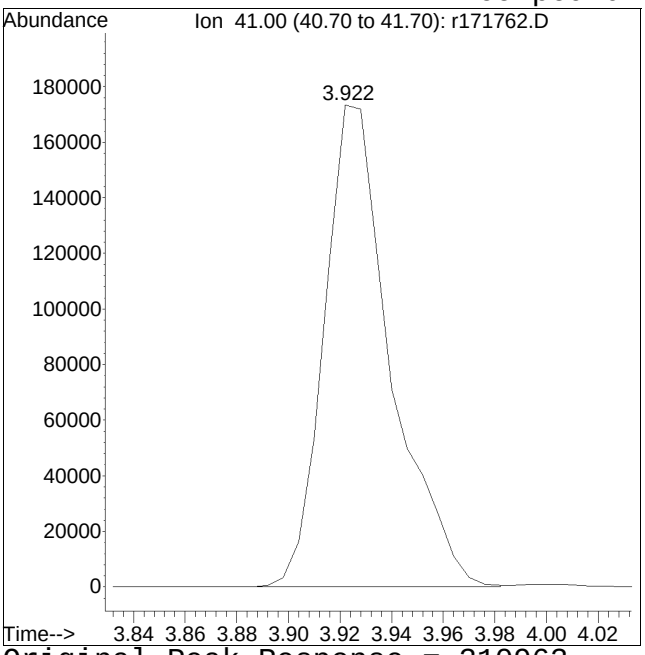
Quant Time: May 22 12:35:35 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration



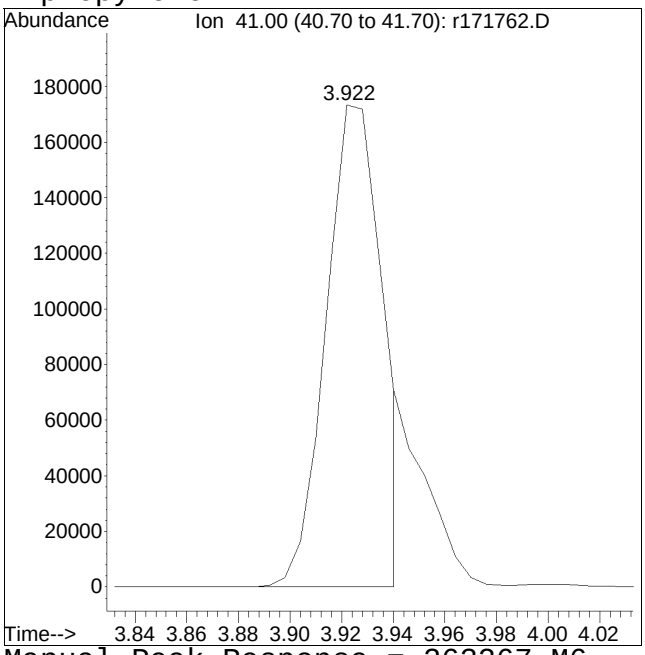
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171762.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 8:16 PM Instrument :
Sample : ITO15-SIMSTD20 Quant Date : 5/22/2018 12:29 pm

Compound #3: propylene



Original Peak Response = 310963



Manual Peak Response = 263267 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171763.D
Acq On : 21 May 2018 8:54 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD50
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:36:43 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.433	49	236853	10.000	ppbV	0.00
Standard Area = 237626			Recovery = 99.67%			
43) 1,4-difluorobenzene	11.667	114	663154	10.000	ppbV	0.00
Standard Area = 677624			Recovery = 97.86%			
67) chlorobenzene-D5	16.400	54	94084	10.000	ppbV	0.00
Standard Area = 99670			Recovery = 94.40%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.300	65	131775	9.312	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.12%			
69) toluene-D8	14.492	98	630890	10.209	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.09%			
90) bromofluorobenzene	17.775	95	389232	10.208	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.08%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.892	51	1037703	41.429	ppbV	100
3) propylene	3.922	41	574407M6	41.848	ppbV	
4) propane	3.952	29	699233	39.801	ppbV	99
5) dichlorodifluoromethane	4.000	85	1184660	41.669	ppbV	100
6) chloromethane	4.174	50	614283	41.670	ppbV	99
7) Freon-114	4.294	85	1569222	38.830	ppbV	93
8) methanol	4.360	31	1273230	201.772	ppbV	97
9) vinyl chloride	4.426	62	761288	44.854	ppbV	100
10) 1,3-butadiene	4.582	54	586850	42.919	ppbV	98
11) butane	4.648	43	960572	40.701	ppbV	98
12) acetaldehyde	4.306	29	1612101	260.233	ppbV	94
13) bromomethane	4.888	94	707305	45.216	ppbV	99
14) chloroethane	5.104	64	411571	44.066	ppbV	99
15) ethanol	5.263	31	2333097	201.380	ppbV	98
16) dichlorofluoromethane	5.240	67	1215045	43.285	ppbV	99
17) vinyl bromide	5.513	106	721471	45.643	ppbV	98
18) acrolein	5.660	56	351415	45.944	ppbV	97
19) acetone	5.810	43	4127239	261.176	ppbV #	92
20) acetonitrile	5.503	41	579285	43.513	ppbV	100
21) trichlorofluoromethane	6.020	101	1103506	43.987	ppbV	99
22) isopropyl alcohol	6.127	45	2736085	138.453	ppbV	99
23) acrylonitrile	6.377	53	613835	45.777	ppbV	98
24) pentane	6.453	43	1180938	42.342	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171763.D
Acq On : 21 May 2018 8:54 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD50
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:36:43 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.487	31	989065	43.295	ppbV	97
26) 1,1-dichloroethene	6.768	61	948060	44.731	ppbV	97
27) tertiary butyl alcohol	6.834	59	1065630	48.386	ppbV	94
28) methylene chloride	6.930	49	807436	43.033	ppbV	95
29) 3-chloropropene	7.068	41	872893	43.825	ppbV	98
30) carbon disulfide	7.212	76	2229728	43.824	ppbV	96
31) Freon 113	7.254	101	1400019	44.633	ppbV	94
32) trans-1,2-dichloroethene	8.033	61	1012563	45.605	ppbV	97
33) 1,1-dichloroethane	8.267	63	1278203	45.759	ppbV	99
34) MTBE	8.342	73	1657425	46.142	ppbV	99
35) vinyl acetate	8.483	43	2023783	46.456	ppbV	97
36) 2-butanone	8.733	43	1854106	44.816	ppbV	98
37) cis-1,2-dichloroethene	9.242	61	1192033	45.670	ppbV	97
38) Ethyl Acetate	9.542	61	326403	47.556	ppbV	77
39) chloroform	9.600	83	1419919	45.159	ppbV	98
40) Tetrahydrofuran	10.017	42	1150398	44.960	ppbV	96
41) 2,2-dichloropropane	9.608	77	1080604	45.860	ppbV	93
42) 1,2-dichloroethane	10.425	62	801532	44.795	ppbV	98
44) hexane	9.508	57	1473581	45.903	ppbV	89
45) diisopropyl ether	9.517	87	790171	48.308	ppbV	75
46) tert-butyl ethyl ether	10.133	59	2285481	47.912	ppbV	97
48) 1,1,1-trichloroethane	10.708	97	1212456	46.836	ppbV	98
49) 1,1-dichloropropene	11.080	75	1308099	47.829	ppbV	96
50) benzene	11.233	78	3080644	46.780	ppbV	99
51) thiophene	11.380	84	2381979	69.328	ppbV	97
52) carbon tetrachloride	11.407	117	1201674	47.486	ppbV	98
53) cyclohexane	11.547	56	1636442	47.711	ppbV	96
54) tert-amyl methyl ether	11.933	73	2230183	49.471	ppbV	97
55) dibromomethane	12.147	93	894101	47.273	ppbV	95
56) 1,2-dichloropropane	12.180	63	1046256	46.608	ppbV	99
57) bromodichloromethane	12.407	83	1568015	47.271	ppbV	100
58) 1,4-dioxane	12.440	88	722319	50.094	ppbV	95
59) trichloroethene	12.460	130	1285276	49.057	ppbV	97
60) 2,2,4-trimethylpentane	12.507	57	4723914	45.033	ppbV	98
61) methyl methacrylate	12.713	41	1497558	67.512	ppbV	94
62) heptane	12.827	43	1816464	42.828	ppbV	92
63) cis-1,3-dichloropropene	13.467	75	1546201	48.510	ppbV	98
64) 4-methyl-2-pentanone	13.500	43	2180614	46.065	ppbV	93
65) trans-1,3-dichloropropene	14.083	75	1417526	48.890	ppbV	98
66) 1,1,2-trichloroethane	14.283	97	1212522	47.761	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171763.D
Acq On : 21 May 2018 8:54 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD50
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:36:43 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	14.608	91	3476204	48.542	ppbV		100
70) 2-methylthiophene	14.675	97	3622810	73.387	ppbV		98
71) 1,3-dichloropropane	14.633	76	1652578	48.244	ppbV		95
72) 2-hexanone	14.900	43	1915723	45.408	ppbV		92
73) 3-methylthiophene	14.875	97	3711771	71.447	ppbV		98
74) dibromochloromethane	15.058	129	1642183	48.946	ppbV		98
75) 1,2-dibromoethane	15.308	107	1829437	49.292	ppbV		98
76) butyl acetate	15.558	73	427951	51.574	ppbV		83
77) octane	15.658	85	1348664	49.209	ppbV		83
78) tetrachloroethene	15.783	166	1493142	50.184	ppbV		98
79) 1,1,1,2-tetrachloroethane	16.433	131	1240751	48.772	ppbV		100
80) chlorobenzene	16.442	112	3017651	47.881	ppbV		98
81) ethylbenzene	16.800	91	4420117	47.944	ppbV		96
82) 2-ethylthiophene	16.842	97	3931457	67.398	ppbV		96
83) m+p-xylene	16.967	91	6834794	91.035	ppbV		97
84) bromoform	17.025	173	1567819	51.247	ppbV		98
85) styrene	17.283	104	3181604	48.518	ppbV		98
86) 1,1,2,2-tetrachloroethane	17.375	83	2403591	42.360	ppbV		98
87) o-xylene	17.383	91	3305449	44.120	ppbV		95
88) 1,2,3-trichloropropane	17.492	75	1965886	46.155	ppbV		96
89) nonane	17.583	43	2538492	40.601	ppbV	#	85
91) isopropylbenzene	17.892	105	4764278	45.922	ppbV		93
92) bromobenzene	17.967	77	2529285	46.414	ppbV		89
93) 2-chlorotoluene	18.292	126	1474719	48.842	ppbV		88
94) n-propylbenzene	18.325	120	1717562	47.665	ppbV		77
95) 4-chlorotoluene	18.350	126	1452113	48.412	ppbV		91
96) 4-ethyl toluene	18.450	105	5096219	44.571	ppbV		97
97) 1,3,5-trimethylbenzene	18.508	105	4804688	44.024	ppbV		97
98) tert-butylbenzene	18.850	119	4057902	40.906	ppbV		92
99) 1,2,4-trimethylbenzene	18.850	105	3808163	39.845	ppbV		96
100) decane	18.933	57	2973509	43.052	ppbV	#	88
101) Benzyl Chloride	18.967	91	3037557	48.207	ppbV		96
102) 1,3-dichlorobenzene	18.983	146	2682848	46.286	ppbV		94
103) 1,4-dichlorobenzene	19.042	146	2691791	46.047	ppbV		99
104) sec-butylbenzene	19.075	105	5767457	42.224	ppbV		92
105) 1,2,3-trimethylbenzene	19.208	105	4170885	57.470	ppbV		93
106) p-isopropyltoluene	19.200	119	4650402	40.150	ppbV		93
107) 1,2-dichlorobenzene	19.325	146	2519816	46.285	ppbV		97
108) n-butylbenzene	19.550	91	4115875	42.895	ppbV		93
109) indan	19.375	117	5189758	61.143	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171763.D
Acq On : 21 May 2018 8:54 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD50
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:36:43 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

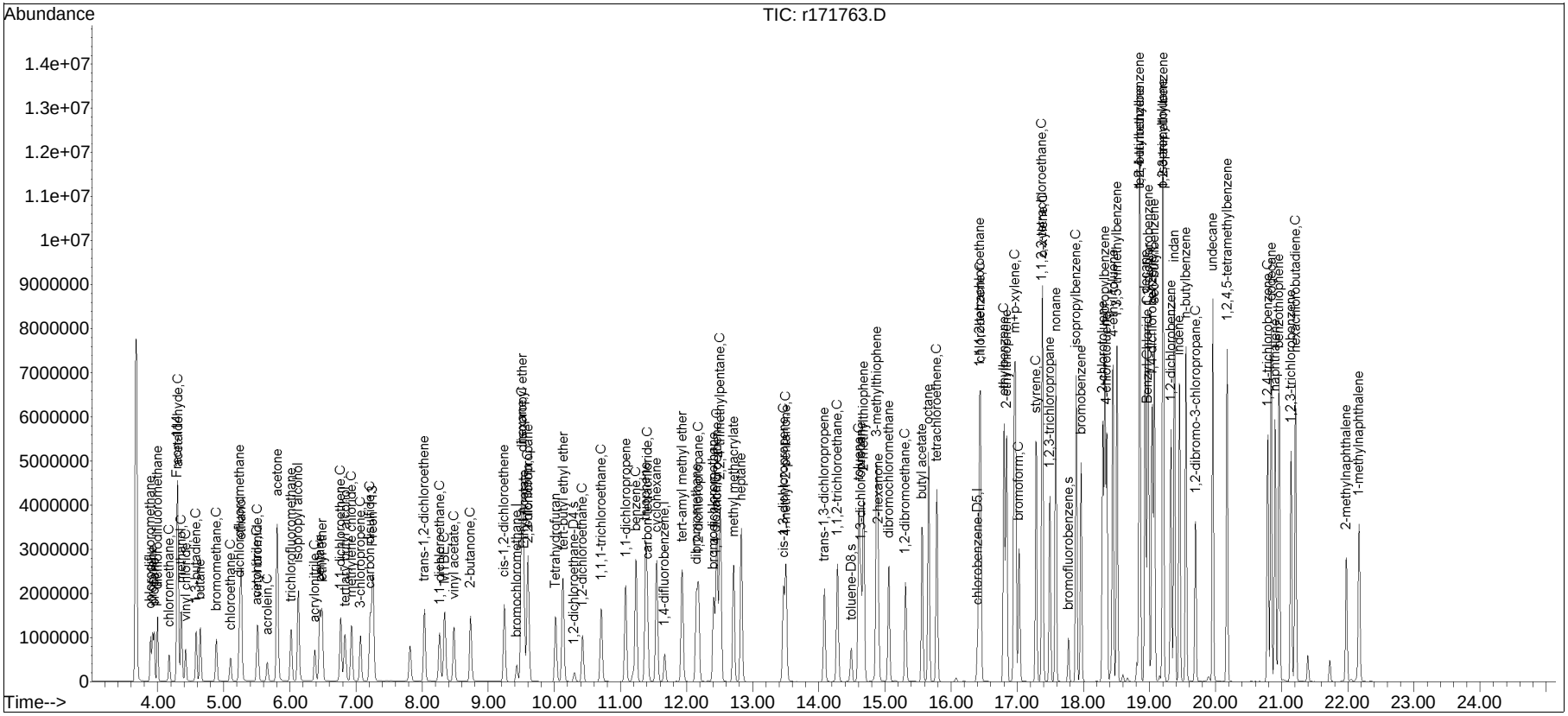
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.450	115	3928068	61.180	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.700	75	964914	44.372	ppbV	95
112) undecane	19.958	57	3035603	40.680	ppbV #	94
113) 1,2,4,5-tetramethylben...	20.175	119	4215592	48.424	ppbV	97
114) dodecane	20.842	57	2864915	35.831	ppbV	92
115) 1,2,4-trichlorobenzene	20.792	180	2081955	46.983	ppbV	98
116) naphthalene	20.900	128	5254615	43.094	ppbV	98
117) 1,2,3-trichlorobenzene	21.142	180	1958616	45.308	ppbV	99
118) benzothiophene	20.958	134	5938805	56.935	ppbV	99
119) hexachlorobutadiene	21.208	225	1623753	41.597	ppbV	98
120) 2-methylnaphthalene	21.975	142	1684639	70.270	ppbV	99
121) 1-methylnaphthalene	22.167	142	2235609	61.589	ppbV	99

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

Sub List : Default - All compounds listed8\180521T_ICAL\r171761.D

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171763.D
Acq On : 21 May 2018 8:54 PM
Operator : AIRLAB17:MB
Sample : ITO15-SIMSTD50
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

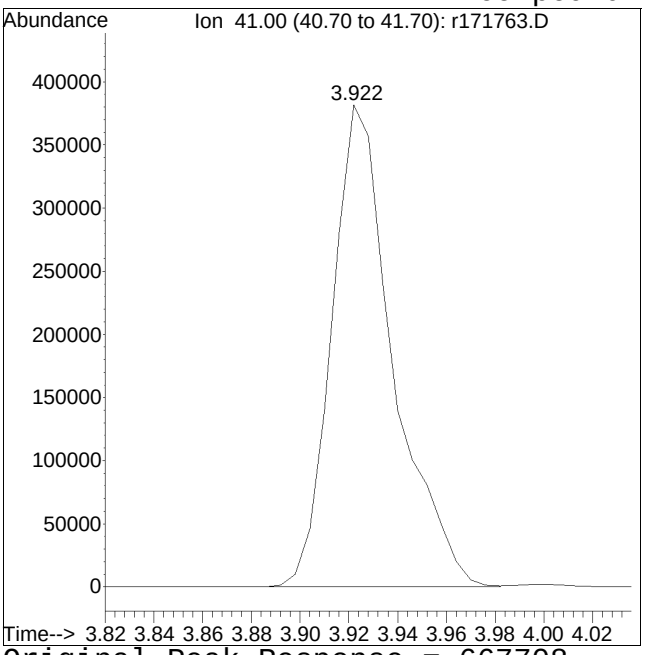
Quant Time: May 22 12:36:43 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration



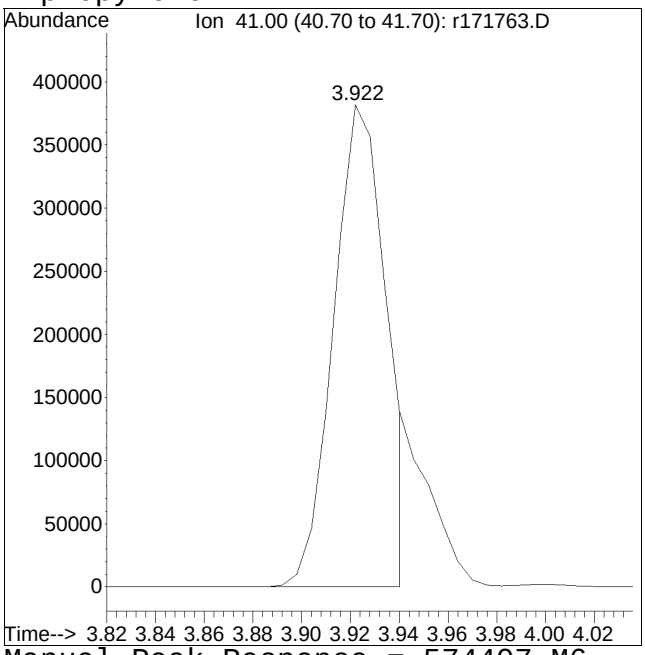
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171763.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 8:54 PM Instrument :
Sample : ITO15-SIMSTD50 Quant Date : 5/22/2018 12:30 pm

Compound #3: propylene



Original Peak Response = 667708



Manual Peak Response = 574407 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171764.D
Acq On : 21 May 2018 9:35 PM
Operator : AIRLAB17:MB
Sample : ITO15-LLSTD100
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:38:29 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.433	49	241524	10.000	ppbV	0.00
Standard Area = 237626			Recovery = 101.64%			
43) 1,4-difluorobenzene	11.667	114	683452	10.000	ppbV	0.00
Standard Area = 677624			Recovery = 100.86%			
67) chlorobenzene-D5	16.400	54	94100	10.000	ppbV	0.00
Standard Area = 99670			Recovery = 94.41%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.308	65	129160	8.856	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.56%			
69) toluene-D8	14.492	98	652238	10.553	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.53%			
90) bromofluorobenzene	17.775	95	393290	10.313	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.13%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.892	51	2032240	79.565	ppbV	99
3) propylene	3.922	41	1173412M6	83.834	ppbV	
4) propane	3.946	29	1368755	76.405	ppbV	96
5) dichlorodifluoromethane	3.994	85	2254196	77.755	ppbV	100
6) chloromethane	4.174	50	1183019	78.697	ppbV	99
7) Freon-114	4.288	85	2671694	64.833	ppbV #	88
8) methanol	4.360	31	2425859	376.998	ppbV	97
9) vinyl chloride	4.420	62	1510752	87.289	ppbV	100
10) 1,3-butadiene	4.582	54	1119464	80.289	ppbV	94
11) butane	4.642	43	1841470	76.517	ppbV	97
12) acetaldehyde	4.306	29	2696080	426.797	ppbV	89
13) bromomethane	4.888	94	1368887	85.817	ppbV	100
14) chloroethane	5.098	64	720617	75.663	ppbV	99
15) ethanol	5.270	31	4133506	349.881	ppbV	96
16) dichlorofluoromethane	5.237	67	2320607	81.072	ppbV	98
17) vinyl bromide	5.513	106	1379879	85.608	ppbV	93
18) acrolein	5.657	56	687436	88.138	ppbV	96
19) acetone	5.810	43	7139732	443.072	ppbV	93
20) acetonitrile	5.503	41	1099785	81.013	ppbV	99
21) trichlorofluoromethane	6.017	101	2111095	82.523	ppbV	99
22) isopropyl alcohol	6.137	45	4874951	241.914	ppbV #	97
23) acrylonitrile	6.380	53	1154544	84.436	ppbV	99
24) pentane	6.453	43	2250316	79.124	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171764.D
Acq On : 21 May 2018 9:35 PM
Operator : AIRLAB17:MB
Sample : ITO15-LLSTD100
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:38:29 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.487	31	1789260	76.809	ppbV		95
26) 1,1-dichloroethene	6.768	61	1796278	83.112	ppbV		97
27) tertiary butyl alcohol	6.834	59	2125415	94.639	ppbV		91
28) methylene chloride	6.930	49	1442338	75.384	ppbV		90
29) 3-chloropropene	7.068	41	1631404	80.323	ppbV		98
30) carbon disulfide	7.212	76	4003183	77.158	ppbV		96
31) Freon 113	7.254	101	2582668	80.744	ppbV		94
32) trans-1,2-dichloroethene	8.033	61	1890982	83.521	ppbV		97
33) 1,1-dichloroethane	8.267	63	2748244	96.483	ppbV		100
34) MTBE	8.342	73	3652133	99.707	ppbV		97
35) vinyl acetate	8.483	43	3698564	83.259	ppbV	#	94
36) 2-butanone	8.733	43	3340215	79.175	ppbV		94
37) cis-1,2-dichloroethene	9.242	61	2182722	82.009	ppbV		94
38) Ethyl Acetate	9.542	61	618982	88.440	ppbV	#	60
39) chloroform	9.600	83	2564474	79.983	ppbV		98
40) Tetrahydrofuran	10.017	42	2058530	78.897	ppbV		91
41) 2,2-dichloropropane	9.608	77	1953831	81.315	ppbV		89
42) 1,2-dichloroethane	10.425	62	1484547	81.363	ppbV		99
44) hexane	9.508	57	2623564	79.299	ppbV	#	75
45) diisopropyl ether	9.517	87	1505274	89.293	ppbV	#	55
46) tert-butyl ethyl ether	10.133	59	4310991	87.690	ppbV		95
48) 1,1,1-trichloroethane	10.708	97	2261196	84.753	ppbV		96
49) 1,1-dichloropropene	11.080	75	2388547	84.740	ppbV		93
50) benzene	11.233	78	5639620	83.094	ppbV		99
51) thiophene	11.380	84	4349496	122.833	ppbV		95
52) carbon tetrachloride	11.407	117	2213469	84.871	ppbV		98
53) cyclohexane	11.547	56	3044465	86.127	ppbV		93
54) tert-amyl methyl ether	11.933	73	4166984	89.689	ppbV		94
55) dibromomethane	12.153	93	1615646	82.886	ppbV		93
56) 1,2-dichloropropane	12.187	63	1898521	82.062	ppbV		98
57) bromodichloromethane	12.413	83	2863566	83.764	ppbV		100
58) 1,4-dioxane	12.447	88	1339729	90.153	ppbV		93
59) trichloroethene	12.460	130	2371657	87.833	ppbV		97
60) 2,2,4-trimethylpentane	12.513	57	8314901	76.912	ppbV	#	97
61) methyl methacrylate	12.713	41	2644655	115.683	ppbV	#	89
62) heptane	12.833	43	3080568	70.475	ppbV	#	85
63) cis-1,3-dichloropropene	13.467	75	2832098	86.215	ppbV		97
64) 4-methyl-2-pentanone	13.508	43	3729024	76.436	ppbV	#	87
65) trans-1,3-dichloropropene	14.083	75	2610584	87.365	ppbV		97
66) 1,1,2-trichloroethane	14.283	97	2235047	85.423	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171764.D
Acq On : 21 May 2018 9:35 PM
Operator : AIRLAB17:MB
Sample : ITO15-LLSTD100
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:38:29 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	14.608	91	6314590	88.162	ppbV		99
70) 2-methylthiophene	14.683	97	6540235	132.462	ppbV		99
71) 1,3-dichloropropane	14.642	76	2920976	85.258	ppbV		94
72) 2-hexanone	14.900	43	3290538	77.982	ppbV	#	84
73) 3-methylthiophene	14.875	97	6511534	125.317	ppbV		99
74) dibromochloromethane	15.058	129	2952800	87.995	ppbV		95
75) 1,2-dibromoethane	15.317	107	3237222	87.208	ppbV		97
76) butyl acetate	15.567	73	790964	95.306	ppbV		75
77) octane	15.658	85	2467595	90.021	ppbV	#	74
78) tetrachloroethene	15.783	166	2721438	91.452	ppbV		97
79) 1,1,1,2-tetrachloroethane	16.433	131	2138033	84.028	ppbV		100
80) chlorobenzene	16.450	112	5159926	81.858	ppbV		98
81) ethylbenzene	16.800	91	7663177	83.106	ppbV		92
82) 2-ethylthiophene	16.842	97	6796024	116.486	ppbV		91
83) m+p-xylene	16.975	91	11314762	150.679	ppbV		95
84) bromoform	17.033	173	2694412	88.056	ppbV		97
85) styrene	17.292	104	5705280	86.988	ppbV		98
86) 1,1,2,2-tetrachloroethane	17.383	83	3655495	64.412	ppbV		98
87) o-xylene	17.383	91	5289395	70.589	ppbV		90
88) 1,2,3-trichloropropane	17.492	75	3437702	80.696	ppbV		94
89) nonane	17.583	43	3991800	63.834	ppbV	#	80
91) isopropylbenzene	17.892	105	8050338	77.583	ppbV		90
92) bromobenzene	17.967	77	4304708	78.981	ppbV	#	79
93) 2-chlorotoluene	18.292	126	2679070	88.715	ppbV		80
94) n-propylbenzene	18.325	120	3093960	85.848	ppbV	#	60
95) 4-chlorotoluene	18.358	126	2633511	87.783	ppbV		80
96) 4-ethyl toluene	18.450	105	8632948	75.491	ppbV		92
97) 1,3,5-trimethylbenzene	18.508	105	8065049	73.885	ppbV		94
98) tert-butylbenzene	18.850	119	6405546	64.560	ppbV	#	89
99) 1,2,4-trimethylbenzene	18.858	105	5979779	62.557	ppbV		94
100) decane	18.942	57	4877205	70.603	ppbV	#	87
101) Benzyl Chloride	18.975	91	5169681	82.031	ppbV		92
102) 1,3-dichlorobenzene	18.983	146	4637445	79.995	ppbV		93
103) 1,4-dichlorobenzene	19.042	146	4704148	80.457	ppbV		98
104) sec-butylbenzene	19.075	105	9543270	69.855	ppbV	#	85
105) 1,2,3-trimethylbenzene	19.208	105	6489941	89.408	ppbV		92
106) p-isopropyltoluene	19.208	119	7141760M6	61.650	ppbV		
107) 1,2-dichlorobenzene	19.325	146	4545064	83.471	ppbV		95
108) n-butylbenzene	19.550	91	7016340	73.111	ppbV	#	84
109) indan	19.383	117	8524419	100.414	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171764.D
Acq On : 21 May 2018 9:35 PM
Operator : AIRLAB17:MB
Sample : ITO15-LLSTD100
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:38:29 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default - All compounds listed

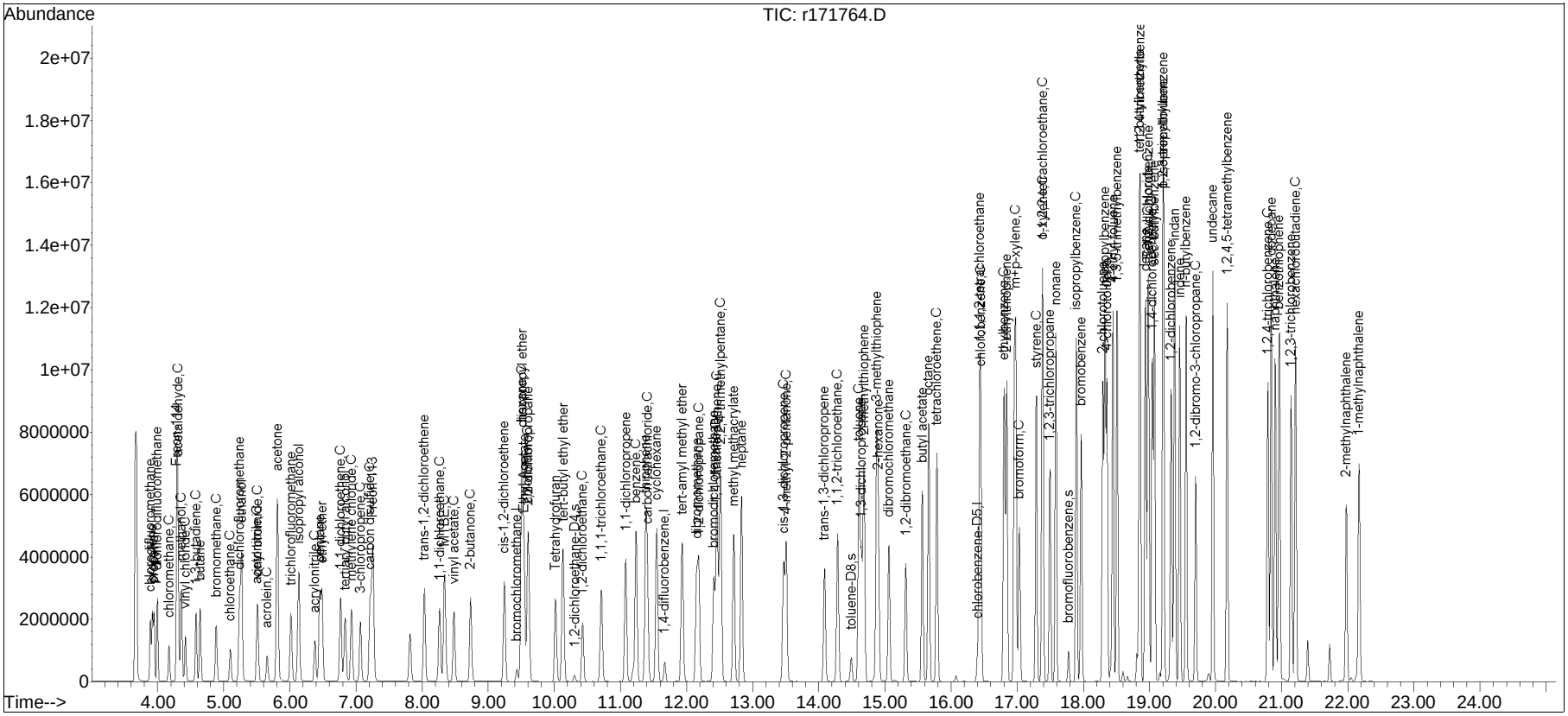
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.458	115	6786822	105.687	ppbV	95
111) 1,2-dibromo-3-chloropr...	19.700	75	1741004	80.047	ppbV	94
112) undecane	19.958	57	4919642	65.916	ppbV #	91
113) 1,2,4,5-tetramethylben...	20.175	119	7341789	84.320	ppbV	94
114) dodecane	20.842	57	4785498	59.841	ppbV	91
115) 1,2,4-trichlorobenzene	20.792	180	3976114	89.712	ppbV	97
116) naphthalene	20.900	128	9828902	80.595	ppbV	97
117) 1,2,3-trichlorobenzene	21.142	180	3732988	86.339	ppbV	98
118) benzothiophene	20.958	134	10745044	102.994	ppbV	98
119) hexachlorobutadiene	21.208	225	2879863	73.764	ppbV	96
120) 2-methylnaphthalene	21.975	142	3546730	147.917	ppbV	98
121) 1-methylnaphthalene	22.167	142	4501163	123.982	ppbV	98

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

Sub List : Default - All compounds listed8\180521T_ICAL\r171761.D

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171764.D
Acq On : 21 May 2018 9:35 PM
Operator : AIRLAB17:MB
Sample : ITO15-LLSTD100
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

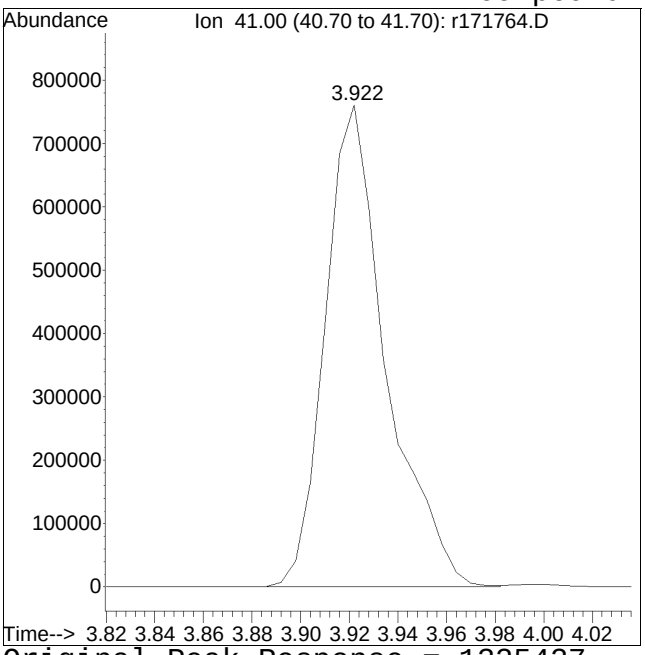
Quant Time: May 22 12:38:29 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:29:21 2018
Response via : Initial Calibration



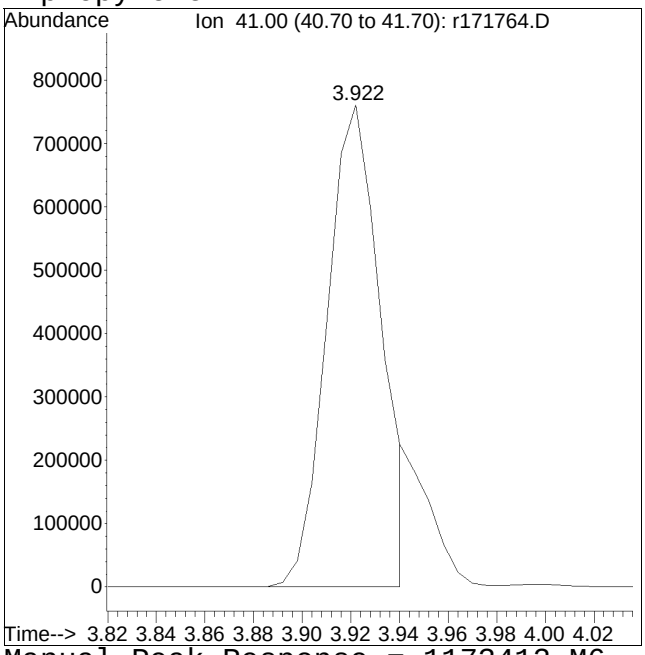
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171764.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 9:35 PM Instrument :
Sample : ITO15-LLSTD100 Quant Date : 5/22/2018 12:30 pm

Compound #3: propylene



Original Peak Response = 1325427



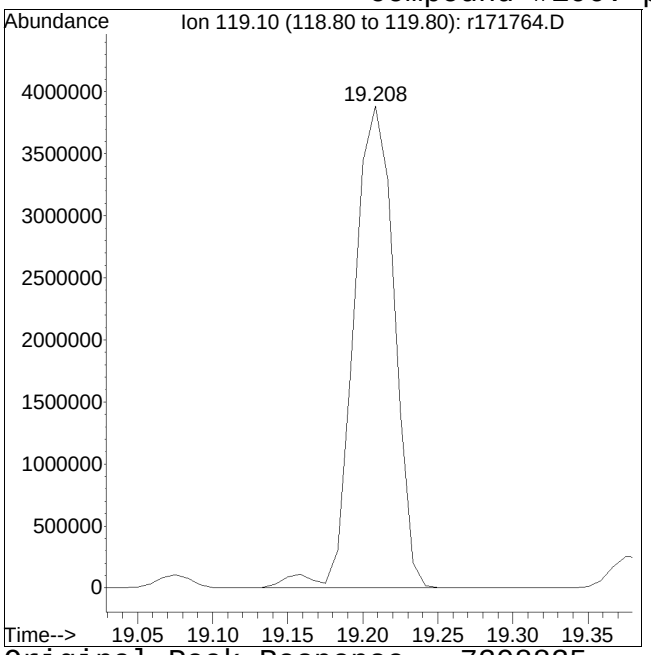
Manual Peak Response = 1173412 M6

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

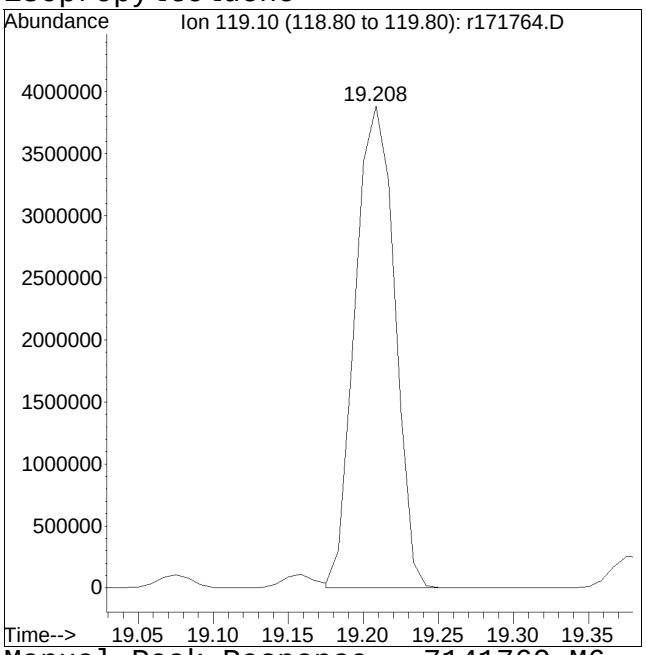
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171764.D Operator : AIRLAB17:MB
Date Inj'd : 5/21/2018 9:35 PM Instrument :
Sample : ITO15-LLSTD100 Quant Date : 5/22/2018 12:30 pm

Compound #106: p-isopropyltoluene



Original Peak Response = 7308835



Manual Peak Response = 7141760 M6

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

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171767.D
Acq On : 22 May 2018 11:43 AM
Operator : AIRLAB17:MB
Sample : CTO15-LLSTD10.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:44:12 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
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	1.076	0.878	18.4	78	0.00
3		propylene	0.584	0.617	-5.7	100	0.00
4		propane	0.760	0.607	20.1	76	0.00
5		dichlorodifluoromethane	1.239	1.115	10.0	87	0.00
6	C	chloromethane	0.642	0.585	8.9	88	0.00
7		Freon-114	1.722	1.607	6.7	88	0.00
8	C	methanol	0.254	0.216	15.0	76	0.00
9	C	vinyl chloride	0.749	0.669	10.7	87	0.00
10	C	1,3-butadiene	0.601	0.586	2.5	95	0.00
11		butane	1.010	0.877	13.2	82	0.00
13	C	bromomethane	0.696	0.619	11.1	88	0.00
14	C	chloroethane	0.392	0.379	3.3	90	0.00
15		ethanol	0.458	0.424	7.4	81	0.00
16		dichlorofluoromethane	1.230	1.054	14.3	83	0.00
17	C	vinyl bromide	0.704	0.665	5.5	93	0.00
18	C	acrolein	0.330	0.283	14.2	82	0.00
19		acetone	0.858	0.687	19.9	96	0.00
20	C	acetonitrile	0.587	0.505	14.0	84	0.00
21		trichlorofluoromethane	1.107	1.028	7.1	91	0.00
22		isopropyl alcohol	1.035	0.857	17.2	96	0.00
23	C	acrylonitrile	0.593	0.531	10.5	88	0.00
24		pentane	1.208	1.064	11.9	84	0.00
25		ethyl ether	0.990	0.842	14.9	82	0.00
26	C	1,1-dichloroethene	0.939	0.858	8.6	90	0.00
27		tertiary butyl alcohol	0.956	0.875	8.5	88	0.00
28	C	methylene chloride	0.788	0.758	3.8	89	0.00
29	C	3-chloropropene	0.868	0.909	-4.7	101	0.00
30	C	carbon disulfide	2.183	2.064	5.5	90	0.00
31		Freon 113	1.382	1.305	5.6	92	0.00
32		trans-1,2-dichloroethene	0.996	0.911	8.5	91	0.00
33	C	1,1-dichloroethane	1.294	1.138	12.1	90	0.00
34	C	MTBE	1.599	1.578	1.3	97	0.00
35	C	vinyl acetate	1.734	1.796	-3.6	91	0.00
36	C	2-butanone	1.766	1.780	-0.8	95	0.00
37		cis-1,2-dichloroethene	1.097	1.102	-0.5	93	0.00
38		Ethyl Acetate	0.290	0.299	-3.1	96	0.00
39	C	chloroform	1.381	1.310	5.1	92	0.00
40		Tetrahydrofuran	1.010	1.080	-6.9	93	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171767.D
Acq On : 22 May 2018 11:43 AM
Operator : AIRLAB17:MB
Sample : CTO15-LLSTD10.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:44:12 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
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	1.003	0.885	11.8	83	0.00
42	C	1,2-dichloroethane	0.782	0.722	7.7	89	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	94	0.00
44	C	hexane	0.480	0.485	-1.0	95	0.00
45		diisopropyl ether	0.243	0.228	6.2	87	0.00
46		tert-butyl ethyl ether	0.697	0.655	6.0	86	0.00
47	s	1,2-dichloroethane-D4	0.206	0.210	-1.9	93	0.00
48	C	1,1,1-trichloroethane	0.401	0.381	5.0	92	0.00
49		1,1-dichloropropene	0.408	0.393	3.7	90	0.00
50	C	benzene	1.009	0.939	6.9	89	0.00
52	C	carbon tetrachloride	0.390	0.374	4.1	93	0.00
53		cyclohexane	0.513	0.524	-2.1	96	0.00
54		tert-amyl methyl ether	0.661	0.631	4.5	88	0.00
55		dibromomethane	0.300	0.263	12.3	87	0.00
56	C	1,2-dichloropropane	0.346	0.332	4.0	92	0.00
57		bromodichloromethane	0.511	0.516	-1.0	97	0.00
58	C	1,4-dioxane	0.212	0.223	-5.2	97	0.00
59	C	trichloroethene	0.407	0.385	5.4	92	0.00
60	C	2,2,4-trimethylpentane	1.573	1.607	-2.2	96	0.00
61		methyl methacrylate	0.420	0.363	13.6	102	0.00
62		heptane	0.613	0.656	-7.0	97	0.00
63	C	cis-1,3-dichloropropene	0.465	0.485	-4.3	95	0.00
64	C	4-methyl-2-pentanone	0.671	0.732	-9.1	97	0.00
65		trans-1,3-dichloropropene	0.419	0.378	9.8	82	0.00
66	C	1,1,2-trichloroethane	0.398	0.380	4.5	94	0.00
67	I	chlorobenzene-D5	1.000	1.000	0.0	94	0.00
68	C	toluene	7.882	7.435	5.7	92	0.00
69	s	toluene-D8	6.662	6.580	1.2	94	0.00
71		1,3-dichloropropane	3.782	3.312	12.4	86	0.00
72		2-hexanone	4.331	4.615	-6.6	97	0.00
74		dibromochloromethane	3.678	3.771	-2.5	100	0.00
75	C	1,2-dibromoethane	4.097	3.892	5.0	93	0.00
76		butyl acetate	0.816	0.794	2.7	85	0.00
77		octane	2.905	2.646	8.9	86	0.00
78	C	tetrachloroethene	3.370	3.147	6.6	94	0.00
79		1,1,1,2-tetrachloroethane	2.771	2.502	9.7	87	0.00
80	C	chlorobenzene	6.892	6.516	5.5	92	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171767.D
Acq On : 22 May 2018 11:43 AM
Operator : AIRLAB17:MB
Sample : CTO15-LLSTD10.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:44:12 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
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	9.561	9.564	-0.0	92	0.00
83	C	m+p-xylene	7.863	7.728	1.7	91	0.00
84	C	bromoform	3.325	3.480	-4.7	101	0.00
85	C	styrene	6.745	6.862	-1.7	93	0.00
86	C	1,1,2,2-tetrachloroethane	5.788	5.871	-1.4	92	0.00
87	C	o-xylene	7.738	7.855	-1.5	93	0.00
88		1,2,3-trichloropropane	4.518	4.148	8.2	86	0.00
89		nonane	6.259	6.104	2.5	87	0.00
90	s	bromofluorobenzene	4.178	4.054	3.0	94	0.00
91	C	isopropylbenzene	10.757	10.509	2.3	90	0.00
92		bromobenzene	5.810	5.337	8.1	87	0.00
93		2-chlorotoluene	3.140	2.932	6.6	86	0.00
94		n-propylbenzene	3.624	3.486	3.8	86	0.00
95		4-chlorotoluene	3.133	2.919	6.8	86	0.00
96		4-ethyl toluene	11.179	12.100	-8.2	94	0.00
97		1,3,5-trimethylbenzene	10.267	11.047	-7.6	90	0.00
98		tert-butylbenzene	9.443	9.632	-2.0	86	0.00
99		1,2,4-trimethylbenzene	8.858	9.869	-11.4	92	0.00
100		decane	6.549	6.716	-2.6	86	0.00
101	C	Benzyl Chloride	5.721	6.903	-20.7	97	0.00
102		1,3-dichlorobenzene	5.785	6.087	-5.2	93	0.00
103	C	1,4-dichlorobenzene	5.749	5.961	-3.7	90	0.00
104		sec-butylbenzene	13.237	13.352	-0.9	87	0.00
106		p-isopropyltoluene	11.043	10.721	2.9	82	0.00
107		1,2-dichlorobenzene	5.403	5.665	-4.8	92	0.00
108		n-butylbenzene	8.985	9.635	-7.2	89	0.00
111	C	1,2-dibromo-3-chloropropane	2.101	2.126	-1.2	87	0.00
112		undecane	6.613	6.881	-4.1	82	0.00
114		dodecane	6.347	6.751	-6.4	75	0.00
115	C	1,2,4-trichlorobenzene	3.827	4.103	-7.2	82	0.00
116		naphthalene	10.609	10.689	-0.8	78	0.00
117		1,2,3-trichlorobenzene	3.799	3.784	0.4	78	0.00
119	C	hexachlorobutadiene	3.629	3.708	-2.2	84	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 : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171767.D
Acq On : 22 May 2018 11:43 AM
Operator : AIRLAB17:MB
Sample : CTO15-LLSTD10.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:44:12 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.425	49	221958	10.000	ppbV	0.00
Standard Area = 237626			Recovery = 93.41%			
43) 1,4-difluorobenzene	11.660	114	639758	10.000	ppbV	0.00
Standard Area = 677624			Recovery = 94.41%			
67) chlorobenzene-D5	16.400	54	93918	10.000	ppbV	0.00
Standard Area = 99670			Recovery = 94.23%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.300	65	134305	10.214	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.14%			
69) toluene-D8	14.483	98	618023	9.877	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.77%			
90) bromofluorobenzene	17.775	95	380723	9.703	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.03%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.892	51	194902	8.158	ppbV	99
3) propylene	3.922	41	137046M6	10.571	ppbV	
4) propane	3.946	29	134738	7.992	ppbV	96
5) dichlorodifluoromethane	4.000	85	247436	8.995	ppbV	100
6) chloromethane	4.174	50	129773	9.101	ppbV	99
7) Freon-114	4.294	85	356789	9.336	ppbV	99
8) methanol	4.354	31	239987	42.522	ppbV	99
9) vinyl chloride	4.420	62	148434	8.932	ppbV	99
10) 1,3-butadiene	4.582	54	130104	9.750	ppbV	100
11) butane	4.642	43	194620	8.683	ppbV	100
13) bromomethane	4.888	94	137451	8.893	ppbV	100
14) chloroethane	5.098	64	84113	9.663	ppbV	96
15) ethanol	5.253	31	470785	46.342	ppbV	98
16) dichlorofluoromethane	5.233	67	233993	8.574	ppbV	99
17) vinyl bromide	5.513	106	147594	9.442	ppbV	95
18) acrolein	5.657	56	62756	8.565	ppbV	98
19) acetone	5.807	43	762381	40.032	ppbV	99
20) acetonitrile	5.500	41	112111	8.603	ppbV	98
21) trichlorofluoromethane	6.017	101	228256	9.290	ppbV	98
22) isopropyl alcohol	6.117	45	475693	20.706	ppbV	99
23) acrylonitrile	6.370	53	117905	8.951	ppbV	100
24) pentane	6.450	43	236207	8.812	ppbV	99
25) ethyl ether	6.483	31	186895	8.508	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171767.D
Acq On : 22 May 2018 11:43 AM
Operator : AIRLAB17:MB
Sample : CTO15-LLSTD10.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:44:12 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) 1,1-dichloroethene	6.762	61	190457	9.139	ppbV	99
27) tertiary butyl alcohol	6.828	59	194289	9.160	ppbV	98
28) methylene chloride	6.930	49	168347	9.630	ppbV	97
29) 3-chloropropene	7.062	41	201712	10.471	ppbV	99
30) carbon disulfide	7.212	76	458082	9.452	ppbV	99
31) Freon 113	7.248	101	289583	9.441	ppbV	97
32) trans-1,2-dichloroethene	8.033	61	202240	9.148	ppbV	100
33) 1,1-dichloroethane	8.258	63	252619	8.798	ppbV	100
34) MTBE	8.342	73	350153	9.864	ppbV	100
35) vinyl acetate	8.475	43	398583	10.358	ppbV	97
36) 2-butanone	8.725	43	395046	10.078	ppbV	99
37) cis-1,2-dichloroethene	9.233	61	244659	10.049	ppbV	99
38) Ethyl Acetate	9.533	61	66365	10.321	ppbV	97
39) chloroform	9.583	83	290700	9.486	ppbV	99
40) Tetrahydrofuran	10.017	42	239816	10.698	ppbV	99
41) 2,2-dichloropropane	9.600	77	196434	8.821	ppbV	98
42) 1,2-dichloroethane	10.417	62	160303	9.232	ppbV	99
44) hexane	9.500	57	310551	10.115	ppbV	91
45) diisopropyl ether	9.508	87	145801	9.393	ppbV	98
46) tert-butyl ethyl ether	10.125	59	419214	9.407	ppbV	99
48) 1,1,1-trichloroethane	10.708	97	243629	9.486	ppbV	99
49) 1,1-dichloropropene	11.073	75	251435	9.630	ppbV	98
50) benzene	11.227	78	600827	9.311	ppbV	99
52) carbon tetrachloride	11.400	117	239395	9.592	ppbV	98
53) cyclohexane	11.540	56	335466	10.227	ppbV	99
54) tert-amyl methyl ether	11.927	73	403516	9.540	ppbV	99
55) dibromomethane	12.140	93	168397	8.787	ppbV	98
56) 1,2-dichloropropane	12.173	63	212170	9.594	ppbV	99
57) bromodichloromethane	12.400	83	330412	10.114	ppbV	100
58) 1,4-dioxane	12.440	88	142942	10.549	ppbV	97
59) trichloroethene	12.453	130	246212	9.456	ppbV	99
60) 2,2,4-trimethylpentane	12.500	57	1028032M6	10.213	ppbV	
61) methyl methacrylate	12.707	41	232058	8.646	ppbV	100
62) heptane	12.820	43	419534	10.703	ppbV	99
63) cis-1,3-dichloropropene	13.458	75	310274	10.439	ppbV	100
64) 4-methyl-2-pentanone	13.500	43	468174	10.899	ppbV	100
65) trans-1,3-dichloropropene	14.075	75	241549	9.015	ppbV	99
66) 1,1,2-trichloroethane	14.275	97	242826	9.528	ppbV	99
68) toluene	14.600	91	698308	9.433	ppbV	100
71) 1,3-dichloropropane	14.625	76	311079	8.757	ppbV	100

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171767.D
Acq On : 22 May 2018 11:43 AM
Operator : AIRLAB17:MB
Sample : CTO15-LLSTD10.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:44:12 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default-ICV-AP2 - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72)	2-hexanone	14.892	43	433429	10.657	ppbV	100
74)	dibromochloromethane	15.050	129	354184	10.254	ppbV	99
75)	1,2-dibromoethane	15.308	107	365559	9.499	ppbV	98
76)	butyl acetate	15.558	73	74529	9.728	ppbV	94
77)	octane	15.658	85	248462	9.106	ppbV	94
78)	tetrachloroethene	15.775	166	295534	9.337	ppbV	99
79)	1,1,1,2-tetrachloroethane	16.425	131	234963	9.027	ppbV	99
80)	chlorobenzene	16.442	112	611935	9.454	ppbV	100
81)	ethylbenzene	16.792	91	898221	10.003	ppbV	99
83)	m+p-xylene	16.958	91	1451664	19.659	ppbV	99
84)	bromoform	17.025	173	326851	10.467	ppbV	99
85)	styrene	17.283	104	644420	10.173	ppbV	99
86)	1,1,2,2-tetrachloroethane	17.375	83	551418	10.143	ppbV	99
87)	o-xylene	17.375	91	737687	10.151	ppbV	99
88)	1,2,3-trichloropropane	17.492	75	389546	9.180	ppbV	99
89)	nonane	17.575	43	573280	9.753	ppbV	99
91)	isopropylbenzene	17.892	105	987007	9.770	ppbV	100
92)	bromobenzene	17.958	77	501249	9.187	ppbV	91
93)	2-chlorotoluene	18.292	126	275373	9.336	ppbV	94
94)	n-propylbenzene	18.317	120	327443	9.620	ppbV	97
95)	4-chlorotoluene	18.350	126	274100	9.316	ppbV	97
96)	4-ethyl toluene	18.442	105	1136391	10.824	ppbV	99
97)	1,3,5-trimethylbenzene	18.508	105	1037532	10.760	ppbV	99
98)	tert-butylbenzene	18.842	119	904572	10.200	ppbV	97
99)	1,2,4-trimethylbenzene	18.850	105	926849	11.141	ppbV	93
100)	decane	18.925	57	630761	10.256	ppbV	99
101)	Benzyl Chloride	18.967	91	648282	12.066	ppbV	98
102)	1,3-dichlorobenzene	18.975	146	571700	10.523	ppbV	96
103)	1,4-dichlorobenzene	19.033	146	559857	10.370	ppbV	99
104)	sec-butylbenzene	19.067	105	1253950	10.086	ppbV	99
106)	p-isopropyltoluene	19.200	119	1006882M6	9.709	ppbV	
107)	1,2-dichlorobenzene	19.317	146	532060	10.486	ppbV	97
108)	n-butylbenzene	19.550	91	904937	10.723	ppbV	98
111)	1,2-dibromo-3-chloropr...	19.692	75	199700	10.119	ppbV	94
112)	undecane	19.958	57	646269	10.405	ppbV	97
114)	dodecane	20.833	57	634040	10.636	ppbV	98
115)	1,2,4-trichlorobenzene	20.783	180	385348	10.721	ppbV	100
116)	naphthalene	20.892	128	1003928	10.076	ppbV	99
117)	1,2,3-trichlorobenzene	21.133	180	355432	9.962	ppbV	98
119)	hexachlorobutadiene	21.208	225	348253	10.218	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171767.D
Acq On : 22 May 2018 11:43 AM
Operator : AIRLAB17:MB
Sample : CTO15-LLSTD10.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

Quant Time: May 22 12:44:12 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\r171761.D
Sub List : Default-ICV-AP2 - All compounds listed

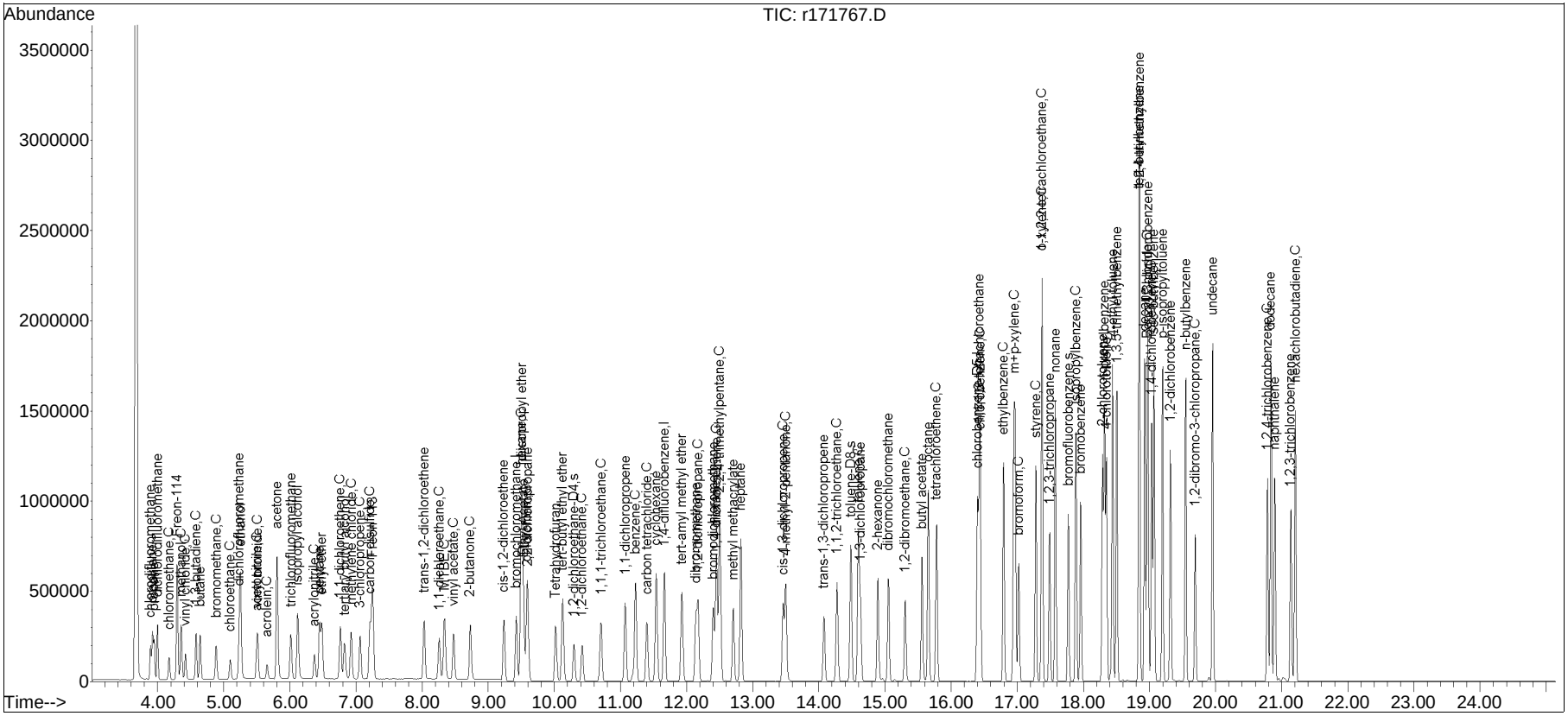
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Sub List : Default-ICV-AP2 - All compounds listedT_ICAL\r171761.D

Data Path : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\
Data File : r171767.D
Acq On : 22 May 2018 11:43 AM
Operator : AIRLAB17:MB
Sample : CTO15-LLSTD10.0
Misc : WG1118303
ALS Vial : 0 Sample Multiplier: 1

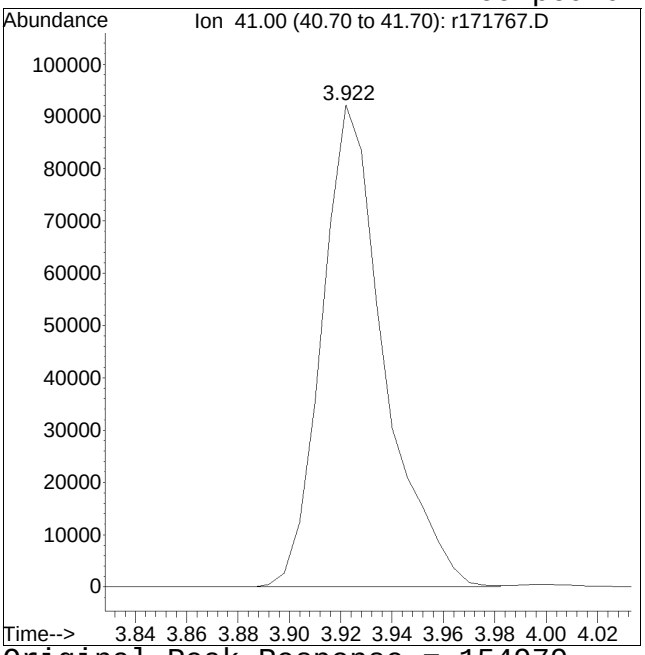
Quant Time: May 22 12:44:12 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180521T_ICAL\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration



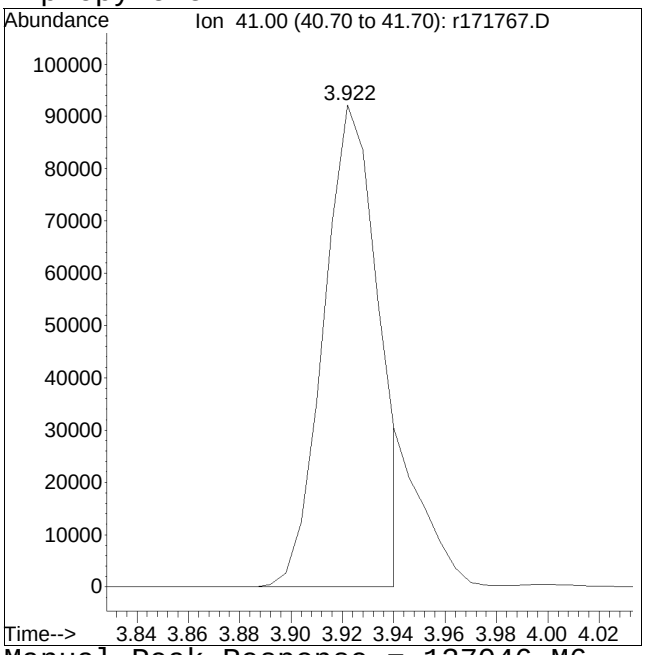
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171767.D Operator : AIRLAB17:MB
Date Inj'd : 5/22/2018 11:43 AM Instrument :
Sample : CTO15-LLSTD10.0 Quant Date : 5/22/2018 12:39 pm

Compound #3: propylene



Original Peak Response = 154979



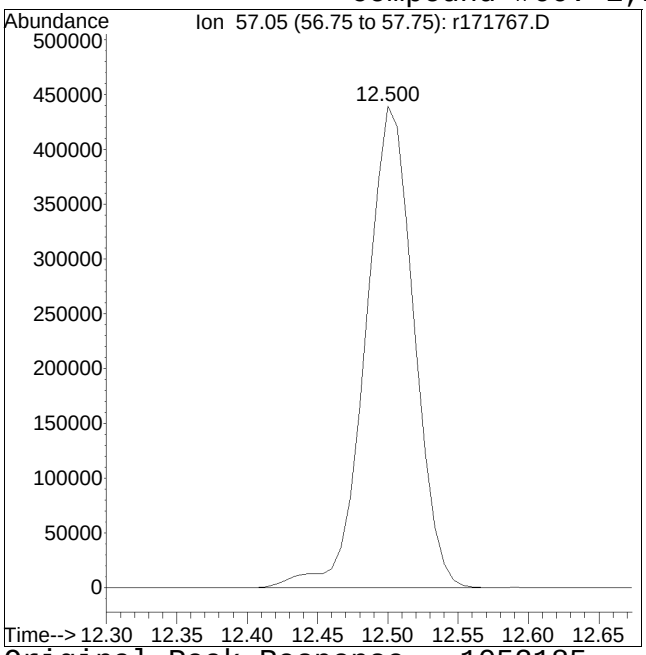
Manual Peak Response = 137046 M6

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

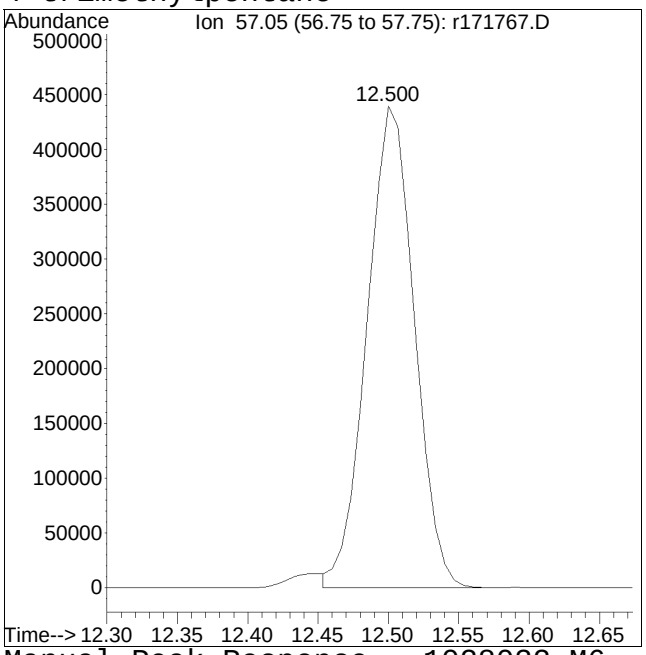
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171767.D Operator : AIRLAB17:MB
Date Inj'd : 5/22/2018 11:43 AM Instrument :
Sample : CTO15-LLSTD10.0 Quant Date : 5/22/2018 12:39 pm

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 1052185



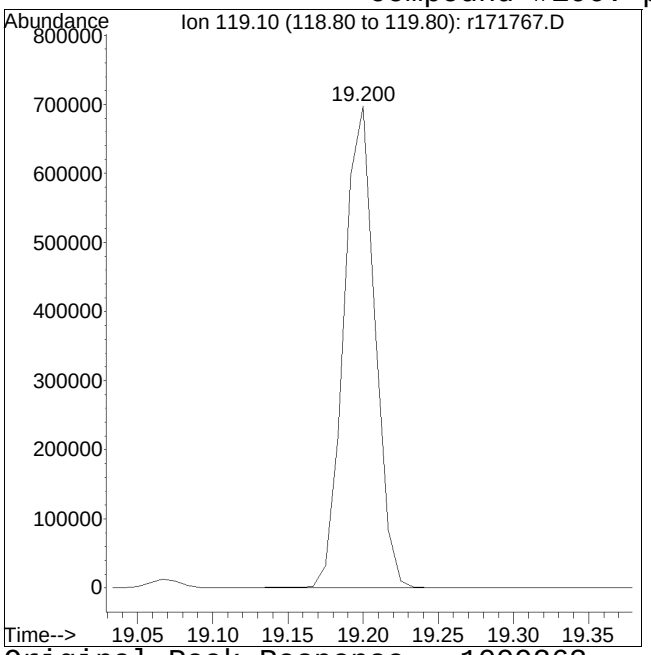
Manual Peak Response = 1028032 M6

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

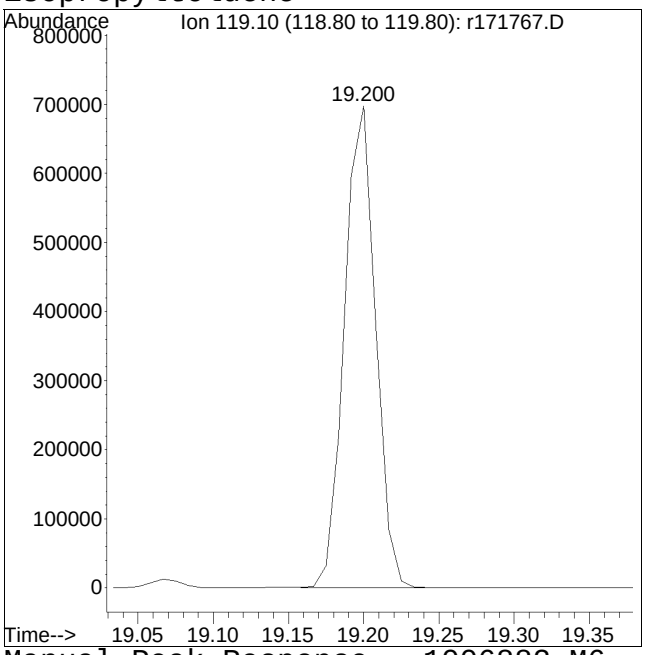
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r171767.D Operator : AIRLAB17:MB
Date Inj'd : 5/22/2018 11:43 AM Instrument :
Sample : CTO15-LLSTD10.0 Quant Date : 5/22/2018 12:39 pm

Compound #106: p-isopropyltoluene



Original Peak Response = 1009263



Manual Peak Response = 1006882 M6

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

Continuing Calibration

Continuing Calibration
Form 7

Client	: C.T. Male Associates	**Lab Number**	: L1821916		
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345		
Instrument ID	: AIRLAB17	**Calibration Date**	: 06/16/18 15:23		
Lab File ID	: R172296	**Init. Calib. Date(s)**	: 05/21/18	05/21/18	
Sample No	: WG1126781-2	**Init. Calib. Times**	: 17:00	21:35	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	80	.02
chlorodifluoromethane	1.076	0.908	-	15.6	30	68	.02
propylene	0.584	0.606	-	-3.8	30	83	.02
propane	0.76	0.57	-	25	30	61	.01
dichlorodifluoromethane	1.239	1.179	-	4.8	30	78	.02
chloromethane	0.642	0.562	-	12.5	30	72	.02
Freon-114	1.722	1.695	-	1.6	30	79	.01
methanol	0.254	0.205	-	19.3	30	61	.01
vinyl chloride	0.749	0.717	-	4.3	30	80	.02
1,3-butadiene	0.601	0.587	-	2.3	30	81	.02
butane	1.01	0.845	-	16.3	30	67	.02
bromomethane	0.696	0.68	-	2.3	30	82	.02
chloroethane	0.392	0.356	-	9.2	30	72	.02
ethanol	0.458	0.415	-	9.4	30	67	.02
dichlorofluoromethane	1.23	1.284	-	-4.4	30	86	.01
vinyl bromide	0.704	0.695	-	1.3	30	83	.02
acrolein	0.33	0.276	-	16.4	30	68	.02
acetone	0.858	0.647	-	24.6	30	77	.02
acetonitrile	0.587	0.474	-	19.3	30	67	.02
trichlorofluoromethane	1.107	1.107	-	0	30	83	.02
isopropyl alcohol	1.035	0.721	-	30.3*	30	69	.02
acrylonitrile	0.593	0.505	-	14.8	30	71	.02
pentane	1.208	0.947	-	21.6	30	64	.02
ethyl ether	0.99	0.769	-	22.3	30	63	.02
1,1-dichloroethene	0.939	0.884	-	5.9	30	79	.02
tertiary butyl alcohol	0.956	0.751	-	21.4	30	64	.02
methylene chloride	0.788	0.709	-	10	30	71	.02
3-chloropropene	0.868	0.825	-	5	30	78	.02
carbon disulfide	2.183	2.022	-	7.4	30	75	.02
Freon 113	1.382	1.39	-	-0.6	30	83	.02
trans-1,2-dichloroethene	0.996	0.924	-	7.2	30	78	.03
1,1-dichloroethane	1.294	1.145	-	11.5	30	77	.02
MTBE	1.599	1.448	-	9.4	30	76	.03
vinyl acetate	1.734	1.782	-	-2.8	30	77	.02
2-butanone	1.766	1.58	-	10.5	30	72	.03
cis-1,2-dichloroethene	1.097	0.984	-	10.3	30	71	.03
Ethyl Acetate	0.29	0.298	-	-2.8	30	82	.02
chloroform	1.381	1.397	-	-1.2	30	84	.02
Tetrahydrofuran	1.01	0.934	-	7.5	30	69	.02
2,2-dichloropropane	1.003	0.906	-	9.7	30	72	.02
1,2-dichloroethane	0.782	0.752	-	3.8	30	79	.02
1,4-difluorobenzene	1	1	-	0	30	89	.02
hexane	0.48	0.436	-	9.2	30	80	.02
diisopropyl ether	0.243	0.197	-	18.9	30	71	.02
tert-butyl ethyl ether	0.697	0.526	-	24.5	30	65	.02

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: C.T. Male Associates	Lab Number	: L1821916		
Project Name	: MASTER CLEANERS	Project Number	: 16.6345		
Instrument ID	: AIRLAB17	Calibration Date	: 06/16/18 15:23		
Lab File ID	: R172296	Init. Calib. Date(s)	: 05/21/18	05/21/18	
Sample No	: WG1126781-2	Init. Calib. Times	: 17:00	21:35	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,1,1-trichloroethane	0.401	0.374	-	6.7	30	86	.02
1,1-dichloropropene	0.408	0.352	-	13.7	30	76	.02
benzene	1.009	0.855	-	15.3	30	77	.02
carbon tetrachloride	0.39	0.386	-	1	30	90	.02
cyclohexane	0.513	0.466	-	9.2	30	80	.02
tert-amyl methyl ether	0.661	0.488	-	26.2	30	64	.02
dibromomethane	0.3	0.248	-	17.3	30	77	.02
1,2-dichloropropane	0.346	0.293	-	15.3	30	77	.02
bromodichloromethane	0.511	0.492	-	3.7	30	88	.02
1,4-dioxane	0.212	0.2	-	5.7	30	82	.02
trichloroethene	0.407	0.374	-	8.1	30	84	.01
2,2,4-trimethylpentane	1.573	1.483	-	5.7	30	84	.02
methyl methacrylate	0.42	0.285	-	32.1*	30	76	.01
heptane	0.613	0.532	-	13.2	30	74	.02
cis-1,3-dichloropropene	0.465	0.43	-	7.5	30	80	.02
4-methyl-2-pentanone	0.671	0.569	-	15.2	30	71	.03
trans-1,3-dichloropropene	0.419	0.335	-	20	30	68	.02
1,1,2-trichloroethane	0.398	0.352	-	11.6	30	82	.02
chlorobenzene-D5	1	1	-	0	30	81	.03
toluene	7.882	7.506	-	4.8	30	80	.03
1,3-dichloropropane	3.782	3.278	-	13.3	30	73	.02
2-hexanone	4.331	3.839	-	11.4	30	69	.02
dibromochloromethane	3.678	4.066	-	-10.5	30	92	.02
1,2-dibromoethane	4.097	3.98	-	2.9	30	82	.02
butyl acetate	0.816	0.699	-	14.3	30	64	.03
octane	2.905	2.64	-	9.1	30	73	.02
tetrachloroethene	3.37	3.247	-	3.6	30	83	.02
1,1,1,2-tetrachloroethane	2.771	2.631	-	5.1	30	79	.02
chlorobenzene	6.892	6.672	-	3.2	30	80	.02
ethylbenzene	9.561	9.559	-	0	30	79	.02
m+p-xylene	7.863	7.798	-	0.8	30	79	.02
bromoform	3.325	3.648	-	-9.7	30	91	.02
styrene	6.745	6.681	-	0.9	30	77	.02
1,1,2,2-tetrachloroethane	5.788	5.782	-	0.1	30	77	.02
o-xylene	7.738	7.942	-	-2.6	30	81	.02
1,2,3-trichloropropane	4.518	4.028	-	10.8	30	72	.02
nonane	6.259	5.306	-	15.2	30	65	.02
isopropylbenzene	10.757	10.616	-	1.3	30	78	.02
bromobenzene	5.81	5.195	-	10.6	30	72	.02
2-chlorotoluene	3.14	2.939	-	6.4	30	74	.02
n-propylbenzene	3.624	3.533	-	2.5	30	75	.02
4-chlorotoluene	3.133	2.945	-	6	30	75	.02
4-ethyl toluene	11.179	11.932	-	-6.7	30	79	.02
1,3,5-trimethylbenzene	10.267	11.375	-	-10.8	30	79	.02
tert-butylbenzene	9.443	9.687	-	-2.6	30	74	.02

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: C.T. Male Associates	**Lab Number**	: L1821916		
Project Name	: MASTER CLEANERS	**Project Number**	: 16.6345		
Instrument ID	: AIRLAB17	**Calibration Date**	: 06/16/18 15:23		
Lab File ID	: R172296	**Init. Calib. Date(s)**	: 05/21/18	05/21/18	
Sample No	: WG1126781-2	**Init. Calib. Times**	: 17:00	21:35	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2,4-trimethylbenzene	8.858	9.697	-	-9.5	30	77	.02
decane	6.549	6.291	-	3.9	30	69	.02
Benzyl Chloride	5.721	6.589	-	-15.2	30	79	.02
1,3-dichlorobenzene	5.785	6.153	-	-6.4	30	81	.02
1,4-dichlorobenzene	5.749	5.939	-	-3.3	30	77	.02
sec-butylbenzene	13.237	13.029	-	1.6	30	73	.02
p-isopropyltoluene	11.043	10.602	-	4	30	70	.02
1,2-dichlorobenzene	5.403	5.67	-	-4.9	30	79	.02
n-butylbenzene	8.985	9.36	-	-4.2	30	74	.02
1,2-dibromo-3-chloropropan	2.101	2.044	-	2.7	30	71	.02
undecane	6.613	6.441	-	2.6	30	66	.02
dodecane	6.347	6.214	-	2.1	30	59	.02
1,2,4-trichlorobenzene	3.827	4.049	-	-5.8	30	69	.02
naphthalene	10.609	10.834	-	-2.1	30	68	.02
1,2,3-trichlorobenzene	3.799	3.741	-	1.5	30	66	.02
hexachlorobutadiene	3.629	3.861	-	-6.4	30	75	.02

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172296.D
Acq On : 16 Jun 2018 3:23 PM
Operator : AIRLAB17:MB
Sample : WG1126781-2,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 16 15:45:33 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
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	80	0.02
2		chlorodifluoromethane	1.076	0.908	15.6	68	0.02
3		propylene	0.584	0.606	-3.8	83	0.02
4		propane	0.760	0.570	25.0	61	0.01
5		dichlorodifluoromethane	1.239	1.179	4.8	78	0.02
6	C	chloromethane	0.642	0.562	12.5	72	0.02
7		Freon-114	1.722	1.695	1.6	79	0.01
8	C	methanol	0.254	0.205	19.3	61	0.01
9	C	vinyl chloride	0.749	0.717	4.3	80	0.02
10	C	1,3-butadiene	0.601	0.587	2.3	81	0.02
11		butane	1.010	0.845	16.3	67	0.02
13	C	bromomethane	0.696	0.680	2.3	82	0.02
14	C	chloroethane	0.392	0.356	9.2	72	0.02
15		ethanol	0.458	0.415	9.4	67	0.02
16		dichlorofluoromethane	1.230	1.284	-4.4	86	0.01
17	C	vinyl bromide	0.704	0.695	1.3	83	0.02
18	C	acrolein	0.330	0.276	16.4	68	0.02
19		acetone	0.858	0.647	24.6	77	0.02
20	C	acetonitrile	0.587	0.474	19.3	67	0.02
21		trichlorofluoromethane	1.107	1.107	0.0	83	0.02
22		isopropyl alcohol	1.035	0.721	30.3#	69	0.02
23	C	acrylonitrile	0.593	0.505	14.8	71	0.02
24		pentane	1.208	0.947	21.6	64	0.02
25		ethyl ether	0.990	0.769	22.3	63	0.02
26	C	1,1-dichloroethene	0.939	0.884	5.9	79	0.02
27		tertiary butyl alcohol	0.956	0.751	21.4	64	0.02
28	C	methylene chloride	0.788	0.709	10.0	71	0.02
29	C	3-chloropropene	0.868	0.825	5.0	78	0.02
30	C	carbon disulfide	2.183	2.022	7.4	75	0.02
31		Freon 113	1.382	1.390	-0.6	83	0.02
32		trans-1,2-dichloroethene	0.996	0.924	7.2	78	0.03
33	C	1,1-dichloroethane	1.294	1.145	11.5	77	0.02
34	C	MTBE	1.599	1.448	9.4	76	0.03
35	C	vinyl acetate	1.734	1.782	-2.8	77	0.02
36	C	2-butanone	1.766	1.580	10.5	72	0.03
37		cis-1,2-dichloroethene	1.097	0.984	10.3	71	0.03
38		Ethyl Acetate	0.290	0.298	-2.8	82	0.02
39	C	chloroform	1.381	1.397	-1.2	84	0.02
40		Tetrahydrofuran	1.010	0.934	7.5	69	0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172296.D
Acq On : 16 Jun 2018 3:23 PM
Operator : AIRLAB17:MB
Sample : WG1126781-2,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 16 15:45:33 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
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	1.003	0.906	9.7	72	0.02
42	C	1,2-dichloroethane	0.782	0.752	3.8	79	0.02
43	I	1,4-difluorobenzene	1.000	1.000	0.0	89	0.02
44	C	hexane	0.480	0.436	9.2	80	0.02
45		diisopropyl ether	0.243	0.197	18.9	71	0.02
46		tert-butyl ethyl ether	0.697	0.526	24.5	65	0.02
48	C	1,1,1-trichloroethane	0.401	0.374	6.7	86	0.02
49		1,1-dichloropropene	0.408	0.352	13.7	76	0.02
50	C	benzene	1.009	0.855	15.3	77	0.02
52	C	carbon tetrachloride	0.390	0.386	1.0	90	0.02
53		cyclohexane	0.513	0.466	9.2	80	0.02
54		tert-amyl methyl ether	0.661	0.488	26.2	64	0.02
55		dibromomethane	0.300	0.248	17.3	77	0.02
56	C	1,2-dichloropropane	0.346	0.293	15.3	77	0.02
57		bromodichloromethane	0.511	0.492	3.7	88	0.02
58	C	1,4-dioxane	0.212	0.200	5.7	82	0.02
59	C	trichloroethene	0.407	0.374	8.1	84	0.01
60	C	2,2,4-trimethylpentane	1.573	1.483	5.7	84	0.02
61		methyl methacrylate	0.420	0.285	32.1#	76	0.01
62		heptane	0.613	0.532	13.2	74	0.02
63	C	cis-1,3-dichloropropene	0.465	0.430	7.5	80	0.02
64	C	4-methyl-2-pentanone	0.671	0.569	15.2	71	0.03
65		trans-1,3-dichloropropene	0.419	0.335	20.0	68	0.02
66	C	1,1,2-trichloroethane	0.398	0.352	11.6	82	0.02
67	I	chlorobenzene-D5	1.000	1.000	0.0	81	0.03
68	C	toluene	7.882	7.506	4.8	80	0.03
71		1,3-dichloropropane	3.782	3.278	13.3	73	0.02
72		2-hexanone	4.331	3.839	11.4	69	0.02
74		dibromochloromethane	3.678	4.066	-10.5	92	0.02
75	C	1,2-dibromoethane	4.097	3.980	2.9	82	0.02
76		butyl acetate	0.816	0.699	14.3	64	0.03
77		octane	2.905	2.640	9.1	73	0.02
78	C	tetrachloroethene	3.370	3.247	3.6	83	0.02
79		1,1,1,2-tetrachloroethane	2.771	2.631	5.1	79	0.02
80	C	chlorobenzene	6.892	6.672	3.2	80	0.02
81	C	ethylbenzene	9.561	9.559	0.0	79	0.02
83	C	m+p-xylene	7.863	7.798	0.8	79	0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172296.D
Acq On : 16 Jun 2018 3:23 PM
Operator : AIRLAB17:MB
Sample : WG1126781-2,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 16 15:45:33 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
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	3.325	3.648	-9.7	91	0.02
85	C	styrene	6.745	6.681	0.9	77	0.02
86	C	1,1,2,2-tetrachloroethane	5.788	5.782	0.1	77	0.02
87	C	o-xylene	7.738	7.942	-2.6	81	0.02
88		1,2,3-trichloropropane	4.518	4.028	10.8	72	0.02
89		nonane	6.259	5.306	15.2	65	0.02
91	C	isopropylbenzene	10.757	10.616	1.3	78	0.02
92		bromobenzene	5.810	5.195	10.6	72	0.02
93		2-chlorotoluene	3.140	2.939	6.4	74	0.02
94		n-propylbenzene	3.624	3.533	2.5	75	0.02
95		4-chlorotoluene	3.133	2.945	6.0	75	0.02
96		4-ethyl toluene	11.179	11.932	-6.7	79	0.02
97		1,3,5-trimethylbenzene	10.267	11.375	-10.8	79	0.02
98		tert-butylbenzene	9.443	9.687	-2.6	74	0.02
99		1,2,4-trimethylbenzene	8.858	9.697	-9.5	77	0.02
100		decane	6.549	6.291	3.9	69	0.02
101	C	Benzyl Chloride	5.721	6.589	-15.2	79	0.02
102		1,3-dichlorobenzene	5.785	6.153	-6.4	81	0.02
103	C	1,4-dichlorobenzene	5.749	5.939	-3.3	77	0.02
104		sec-butylbenzene	13.237	13.029	1.6	73	0.02
106		p-isopropyltoluene	11.043	10.602	4.0	70	0.02
107		1,2-dichlorobenzene	5.403	5.670	-4.9	79	0.02
108		n-butylbenzene	8.985	9.360	-4.2	74	0.02
111	C	1,2-dibromo-3-chloropropane	2.101	2.044	2.7	71	0.02
112		undecane	6.613	6.441	2.6	66	0.02
114		dodecane	6.347	6.214	2.1	59#	0.02
115	C	1,2,4-trichlorobenzene	3.827	4.049	-5.8	69	0.02
116		naphthalene	10.609	10.834	-2.1	68	0.02
117		1,2,3-trichlorobenzene	3.799	3.741	1.5	66	0.02
119	C	hexachlorobutadiene	3.629	3.861	-6.4	75	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 : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172296.D
Acq On : 16 Jun 2018 3:23 PM
Operator : AIRLAB17:MB
Sample : WG1126781-2,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 16 15:45:33 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180616T\r172296.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.450	49	188951	10.000	ppbV	0.02
Standard Area = 188951			Recovery = 100.00%			
43) 1,4-difluorobenzene	11.687	114	604388	10.000	ppbV	0.02
Standard Area = 604388			Recovery = 100.00%			
67) chlorobenzene-D5	16.425	54	80538	10.000	ppbV	0.03
Standard Area = 80538			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
2) chlorodifluoromethane	3.910	51	171595	8.437	ppbV	98
3) propylene	3.940	41	114583M6	10.383	ppbV	
4) propane	3.964	29	107792	7.511	ppbV #	94
5) dichlorodifluoromethane	4.018	85	222782	9.514	ppbV	100
6) chloromethane	4.192	50	106197	8.749	ppbV	100
7) Freon-114	4.312	85	320251	9.844	ppbV	93
8) methanol	4.372	31	193482	40.271	ppbV	94
9) vinyl chloride	4.444	62	135503	9.578	ppbV	99
10) 1,3-butadiene	4.600	54	110893	9.762	ppbV	98
11) butane	4.666	43	159598	8.364	ppbV	99
13) bromomethane	4.906	94	128436	9.761	ppbV	100
14) chloroethane	5.122	64	67179	9.066	ppbV	98
15) ethanol	5.273	31	391853	45.310	ppbV	97
16) dichlorofluoromethane	5.253	67	242706	10.447	ppbV	99
17) vinyl bromide	5.533	106	131375	9.872	ppbV	100
18) acrolein	5.680	56	52170	8.364	ppbV	96
19) acetone	5.827	43	611318	37.708	ppbV	94
20) acetonitrile	5.520	41	89588	8.075	ppbV	97
21) trichlorofluoromethane	6.040	101	209193	10.001	ppbV	100
22) isopropyl alcohol	6.140	45	340648M4	17.418	ppbV	
23) acrylonitrile	6.397	53	95327	8.501	ppbV	98
24) pentane	6.473	43	178857M6	7.838	ppbV	
25) ethyl ether	6.510	31	145291	7.770	ppbV	94
26) 1,1-dichloroethene	6.786	61	167052	9.416	ppbV	97
27) tertiary butyl alcohol	6.852	59	141847	7.856	ppbV	93
28) methylene chloride	6.954	49	133956	9.001	ppbV	90
29) 3-chloropropene	7.086	41	155837	9.502	ppbV	94
30) carbon disulfide	7.236	76	382045	9.260	ppbV	95
31) Freon 113	7.272	101	262710	10.061	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172296.D
Acq On : 16 Jun 2018 3:23 PM
Operator : AIRLAB17:MB
Sample : WG1126781-2,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 16 15:45:33 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180616T\r172296.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) trans-1,2-dichloroethene	8.058	61	174557	9.275	ppbV	97
33) 1,1-dichloroethane	8.283	63	216356	8.851	ppbV	98
34) MTBE	8.367	73	273551	9.053	ppbV	99
35) vinyl acetate	8.500	43	336760	10.281	ppbV	97
36) 2-butanone	8.758	43	298551	8.947	ppbV	97
37) cis-1,2-dichloroethene	9.267	61	185994	8.974	ppbV	99
38) Ethyl Acetate	9.558	61	56374	10.299	ppbV	79
39) chloroform	9.608	83	263995	10.120	ppbV	97
40) Tetrahydrofuran	10.042	42	176415	9.245	ppbV	92
41) 2,2-dichloropropane	9.625	77	171254	9.034	ppbV	94
42) 1,2-dichloroethane	10.442	62	142048	9.610	ppbV	98
44) hexane	9.525	57	263565	9.087	ppbV	81
45) diisopropyl ether	9.533	87	118914	8.109	ppbV	80
46) tert-butyl ethyl ether	10.150	59	318064	7.555	ppbV	97
48) 1,1,1-trichloroethane	10.733	97	226269	9.325	ppbV	98
49) 1,1-dichloropropene	11.100	75	212892	8.631	ppbV	95
50) benzene	11.253	78	517047	8.482	ppbV	99
52) carbon tetrachloride	11.427	117	233170	9.889	ppbV	99
53) cyclohexane	11.567	56	281383	9.080	ppbV	96
54) tert-amyl methyl ether	11.953	73	294786	7.378	ppbV	96
55) dibromomethane	12.167	93	149737	8.271	ppbV	97
56) 1,2-dichloropropane	12.200	63	177300	8.487	ppbV	99
57) bromodichloromethane	12.427	83	297273	9.632	ppbV	99
58) 1,4-dioxane	12.467	88	120586	9.420	ppbV	94
59) trichloroethene	12.473	130	225888	9.183	ppbV	96
60) 2,2,4-trimethylpentane	12.527	57	896564	9.428	ppbV	97
61) methyl methacrylate	12.727	41	172069	6.787	ppbV	92
62) heptane	12.847	43	321830	8.691	ppbV	93
63) cis-1,3-dichloropropene	13.483	75	259814	9.252	ppbV	96
64) 4-methyl-2-pentanone	13.525	43	343652	8.468	ppbV	95
65) trans-1,3-dichloropropene	14.100	75	202313	7.992	ppbV	96
66) 1,1,2-trichloroethane	14.300	97	213015	8.848	ppbV	99
68) toluene	14.625	91	604542	9.524	ppbV	100
71) 1,3-dichloropropane	14.650	76	263966	8.665	ppbV	94
72) 2-hexanone	14.917	43	309168	8.864	ppbV	94
74) dibromochloromethane	15.075	129	327465	11.055	ppbV	100
75) 1,2-dibromoethane	15.325	107	320571	9.714	ppbV	99
76) butyl acetate	15.583	73	56274	8.565	ppbV	93
77) octane	15.675	85	212626	9.087	ppbV	90
78) tetrachloroethene	15.800	166	261504	9.635	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172296.D
Acq On : 16 Jun 2018 3:23 PM
Operator : AIRLAB17:MB
Sample : WG1126781-2,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 16 15:45:33 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180616T\r172296.D
Sub List : Default-LCS-AP2 - All compounds listed

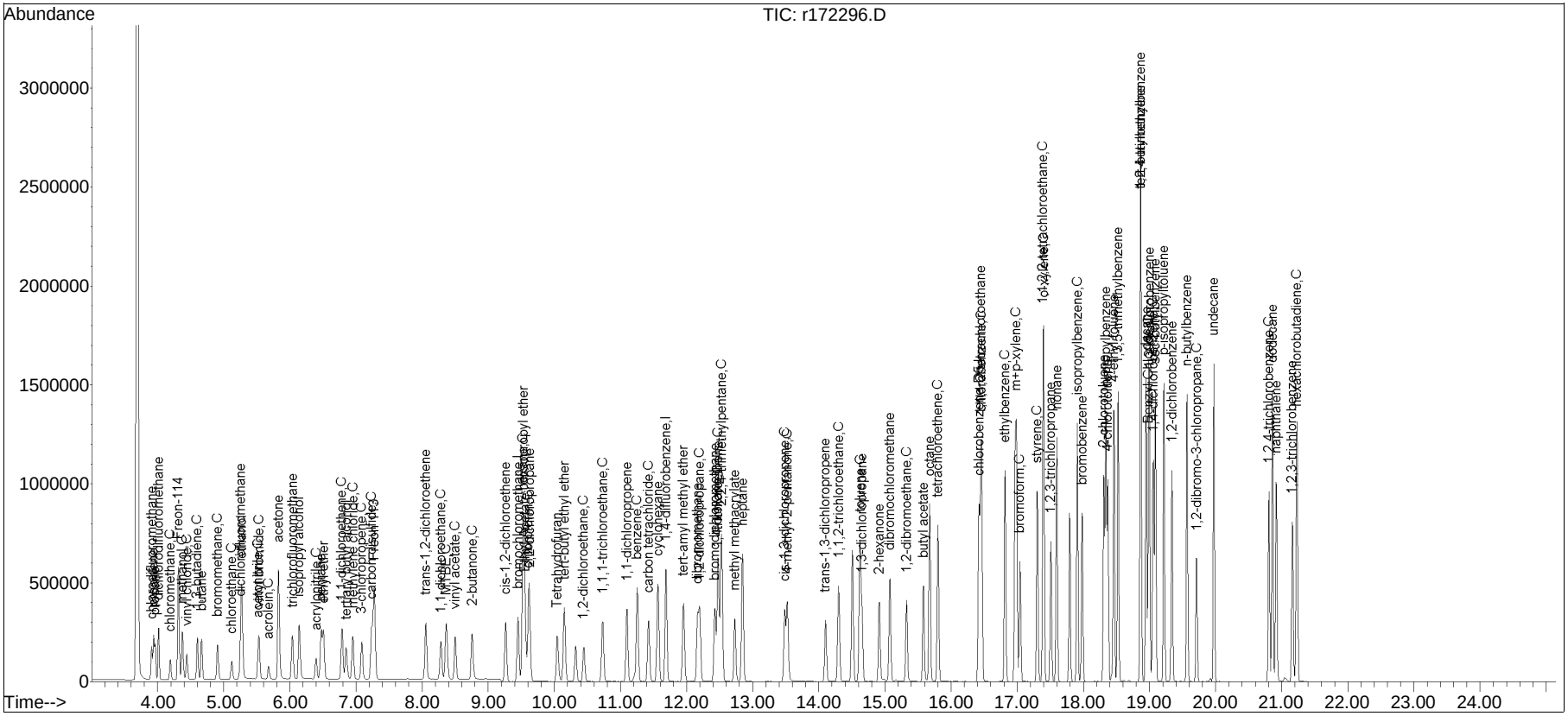
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	1,1,1,2-tetrachloroethane	16.450	131	211872	9.492	ppbV	99
80)	chlorobenzene	16.458	112	537329	9.681	ppbV	98
81)	ethylbenzene	16.817	91	769847	9.997	ppbV	99
83)	m+p-xylene	16.983	91	1256008	19.835	ppbV	99
84)	bromoform	17.042	173	293802	10.972	ppbV	98
85)	styrene	17.300	104	538089	9.906	ppbV	99
86)	1,1,2,2-tetrachloroethane	17.392	83	465652	9.989	ppbV	99
87)	o-xylene	17.400	91	639596	10.263	ppbV	98
88)	1,2,3-trichloropropane	17.508	75	324384	8.915	ppbV	97
89)	nonane	17.600	43	427318	8.477	ppbV	92
91)	isopropylbenzene	17.908	105	854963	9.869	ppbV	99
92)	bromobenzene	17.983	77	418376	8.942	ppbV	92
93)	2-chlorotoluene	18.308	126	236665	9.357	ppbV	98
94)	n-propylbenzene	18.342	120	284557	9.749	ppbV	96
95)	4-chlorotoluene	18.367	126	237224	9.402	ppbV	97
96)	4-ethyl toluene	18.458	105	960970	10.674	ppbV	100
97)	1,3,5-trimethylbenzene	18.525	105	916118	11.079	ppbV	99
98)	tert-butylbenzene	18.867	119	780207	10.259	ppbV	99
99)	1,2,4-trimethylbenzene	18.867	105	780970	10.947	ppbV	98
100)	decane	18.950	57	506661	9.607	ppbV	93
101)	Benzyl Chloride	18.983	91	530657	11.518	ppbV	100
102)	1,3-dichlorobenzene	19.000	146	495565	10.637	ppbV	97
103)	1,4-dichlorobenzene	19.058	146	478324	10.331	ppbV	98
104)	sec-butylbenzene	19.092	105	1049305	9.842	ppbV	100
106)	p-isopropyltoluene	19.217	119	853870	9.601	ppbV	99
107)	1,2-dichlorobenzene	19.342	146	456613	10.494	ppbV	98
108)	n-butylbenzene	19.567	91	753848	10.417	ppbV	100
111)	1,2-dibromo-3-chloropr...	19.717	75	164594	9.726	ppbV	91
112)	undecane	19.975	57	518771	9.740	ppbV	96
114)	dodecane	20.858	57	500471	9.790	ppbV	94
115)	1,2,4-trichlorobenzene	20.808	180	326105	10.580	ppbV	97
116)	naphthalene	20.917	128	872540	10.212	ppbV	99
117)	1,2,3-trichlorobenzene	21.158	180	301257	9.846	ppbV	99
119)	hexachlorobutadiene	21.225	225	310993	10.641	ppbV	98

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

Sub List : Default-LCS-AP2 - All compounds listedT\r172296.D

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172296.D
Acq On : 16 Jun 2018 3:23 PM
Operator : AIRLAB17:MB
Sample : WG1126781-2,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

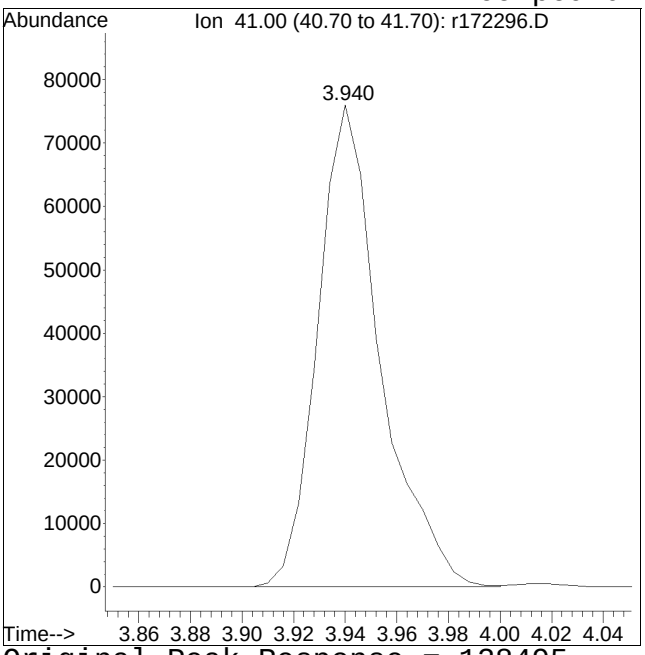
Quant Time: Jun 16 15:45:33 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration



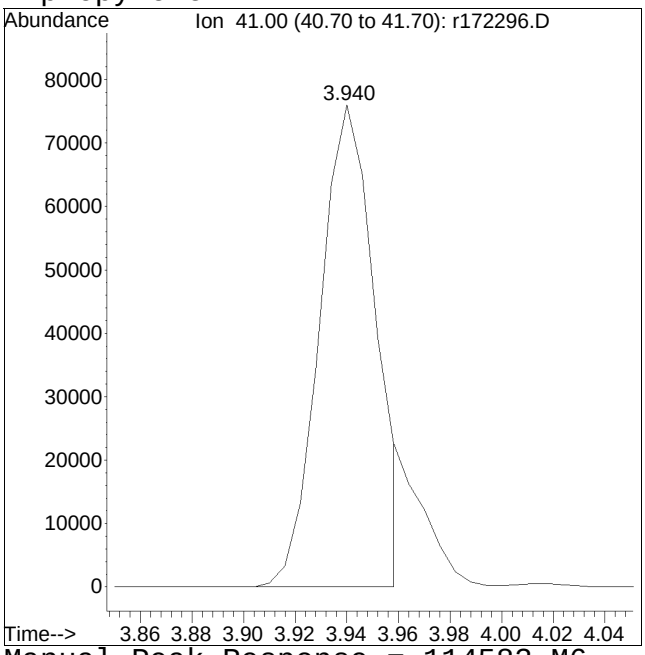
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r172296.D Operator : AIRLAB17:MB
Date Inj'd : 6/16/2018 3:23 PM Instrument :
Sample : WG1126781-2,3,250,250 Quant Date : 6/16/2018 3:44 pm

Compound #3: propylene



Original Peak Response = 128495



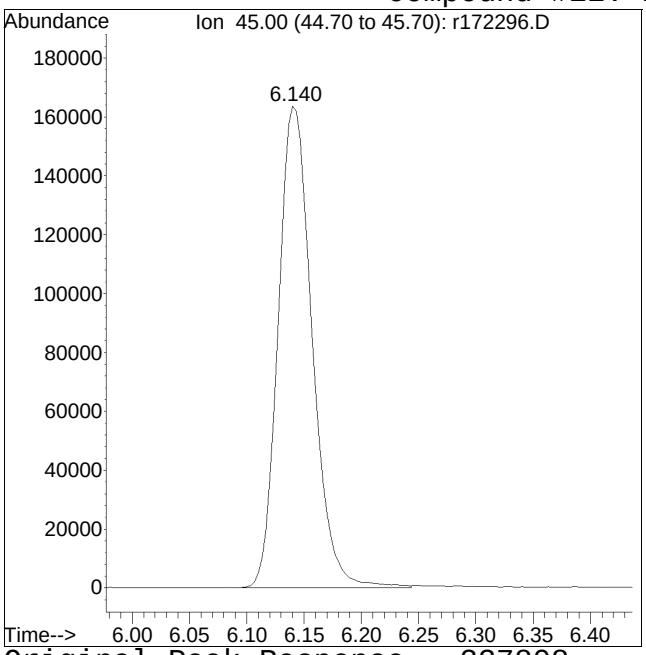
Manual Peak Response = 114583 M6

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

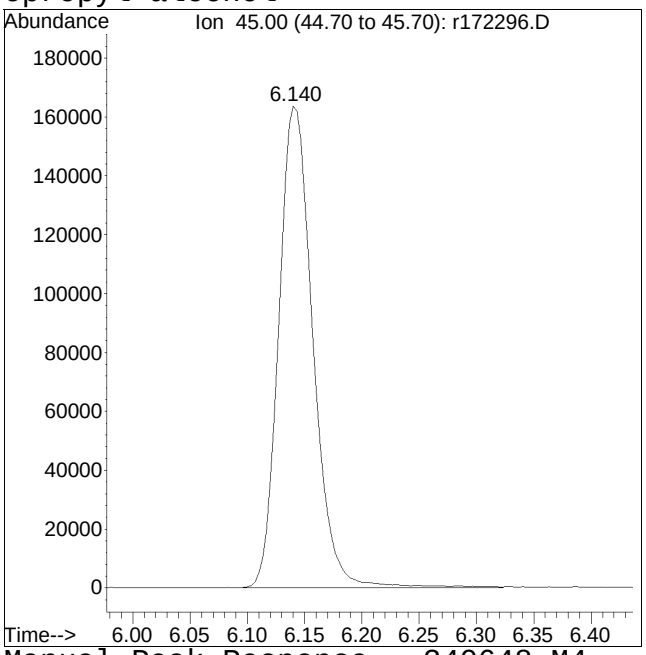
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r172296.D Operator : AIRLAB17:MB
Date Inj'd : 6/16/2018 3:23 PM Instrument :
Sample : WG1126781-2,3,250,250 Quant Date : 6/16/2018 3:44 pm

Compound #22: isopropyl alcohol



Original Peak Response = 337808



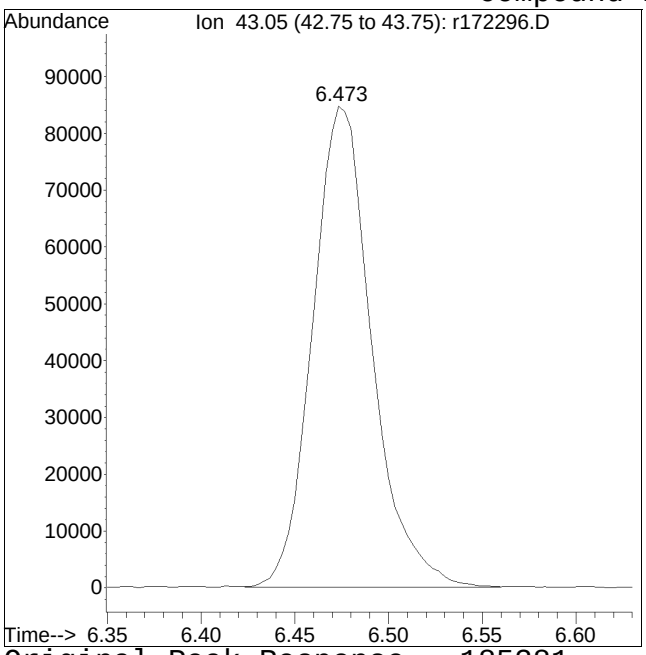
Manual Peak Response = 340648 M4

M4 = Poor automated baseline construction.

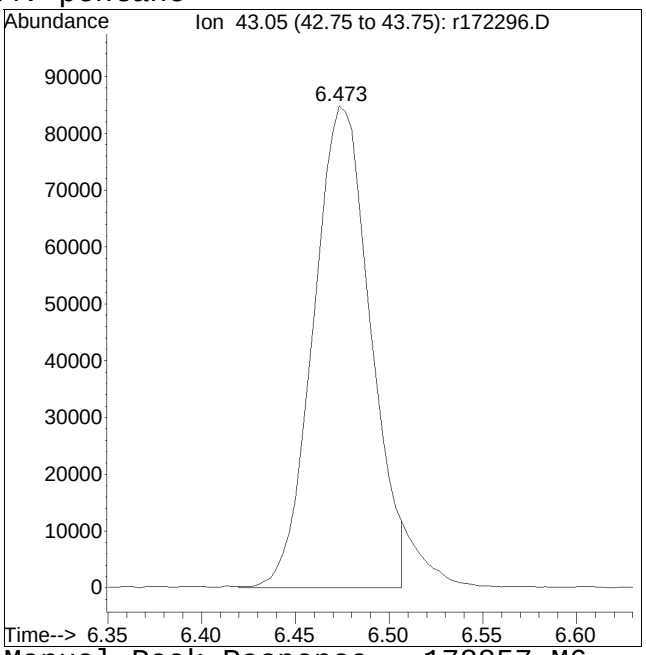
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r172296.D Operator : AIRLAB17:MB
Date Inj'd : 6/16/2018 3:23 PM Instrument :
Sample : WG1126781-2,3,250,250 Quant Date : 6/16/2018 3:44 pm

Compound #24: pentane



Original Peak Response = 185381



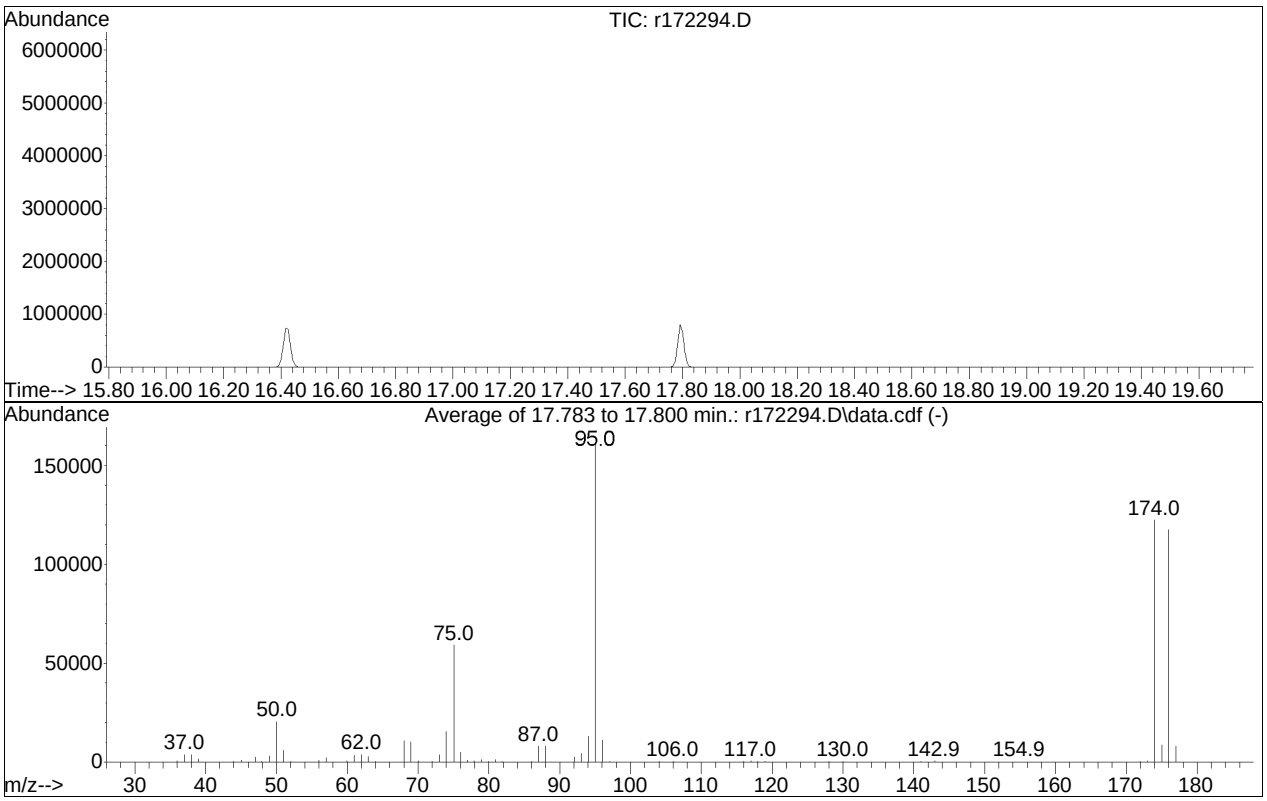
Manual Peak Response = 178857 M6

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

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172294.D
Acq On : 16 Jun 2018 2:02 PM
Operator : AIRLAB17:MB
Sample : WG1126781-1,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue May 22 12:38:49 2018



AutoFind: Scans 2229, 2230, 2231; Background Corrected with Scan 2223

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	12.7	20486	PASS
75	95	30	66	36.7	59258	PASS
95	95	100	100	100.0	161523	PASS
96	95	5	9	6.9	11071	PASS
173	174	0.00	2	0.5	622	PASS
174	95	50	120	75.8	122412	PASS
175	174	4	9	7.2	8858	PASS
176	174	93	101	96.0	117558	PASS
177	176	5	9	6.7	7923	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172298.D
Acq On : 16 Jun 2018 5:31 PM
Operator : AIRLAB17:MB
Sample : WG1126781-4,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 16 17:57:44 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180616T\r172296.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.450	49	170842	10.000	ppbV	0.02
Standard Area = 188951			Recovery =		90.42%	
43) 1,4-difluorobenzene	11.687	114	539881	10.000	ppbV	0.02
Standard Area = 604388			Recovery =		89.33%	
67) chlorobenzene-D5	16.383	54	70747	10.000	ppbV	-0.02
Standard Area = 80538			Recovery =		87.84%	
System Monitoring Compounds						
Target Compounds						Qvalue
2) chlorodifluoromethane	0.000		0	N.D.		
3) propylene	0.000		0	N.D.		
4) propane	3.982		0	N.D.		
5) dichlorodifluoromethane	0.000		0	N.D.		
6) chloromethane	0.000		0	N.D.		
7) Freon-114	0.000		0	N.D.		
8) methanol	4.378	31	992	0.228	ppbV #	1
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
11) butane	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.290	31	1394	0.178	ppbV #	83
16) dichlorofluoromethane	0.000		0	N.D.		
17) vinyl bromide	0.000		0	N.D.		
18) acrolein	0.000		0	N.D.		
19) acetone	5.847	43	1149	0.078	ppbV #	83
20) acetonitrile	5.450		0	N.D.		
21) trichlorofluoromethane	0.000		0	N.D.		
22) isopropyl alcohol	0.000		0	N.D.	d	
23) acrylonitrile	0.000		0	N.D.		
24) pentane	6.467		0	N.D.		
25) ethyl ether	0.000		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	6.888		0	N.D.		
28) methylene chloride	6.948		0	N.D.		
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.230		0	N.D.		
31) Freon 113	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172298.D
Acq On : 16 Jun 2018 5:31 PM
Operator : AIRLAB17:MB
Sample : WG1126781-4,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 16 17:57:44 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180616T\r172296.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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.		
35) vinyl acetate	0.000		0	N.D.		
36) 2-butanone	8.783		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.		
41) 2,2-dichloropropane	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	0.000		0	N.D.		
45) diisopropyl ether	0.000		0	N.D.		
46) tert-butyl ethyl ether	0.000		0	N.D.		
48) 1,1,1-trichloroethane	0.000		0	N.D.		
49) 1,1-dichloropropene	0.000		0	N.D.		
50) benzene	0.000		0	N.D.		
52) carbon tetrachloride	0.000		0	N.D.		
53) cyclohexane	0.000		0	N.D.	d	
54) tert-amyl methyl ether	0.000		0	N.D.		
55) dibromomethane	0.000		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	12.507		0	N.D.		
59) trichloroethene	12.473		0	N.D.		
60) 2,2,4-trimethylpentane	12.520		0	N.D.		
61) methyl methacrylate	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.		
71) 1,3-dichloropropane	0.000		0	N.D.		
72) 2-hexanone	0.000		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	0.000		0	N.D.		
78) tetrachloroethene	15.783		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172298.D
Acq On : 16 Jun 2018 5:31 PM
Operator : AIRLAB17:MB
Sample : WG1126781-4,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 16 17:57:44 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180616T\r172296.D
Sub List : Default-LCS-AP2 - All compounds listed

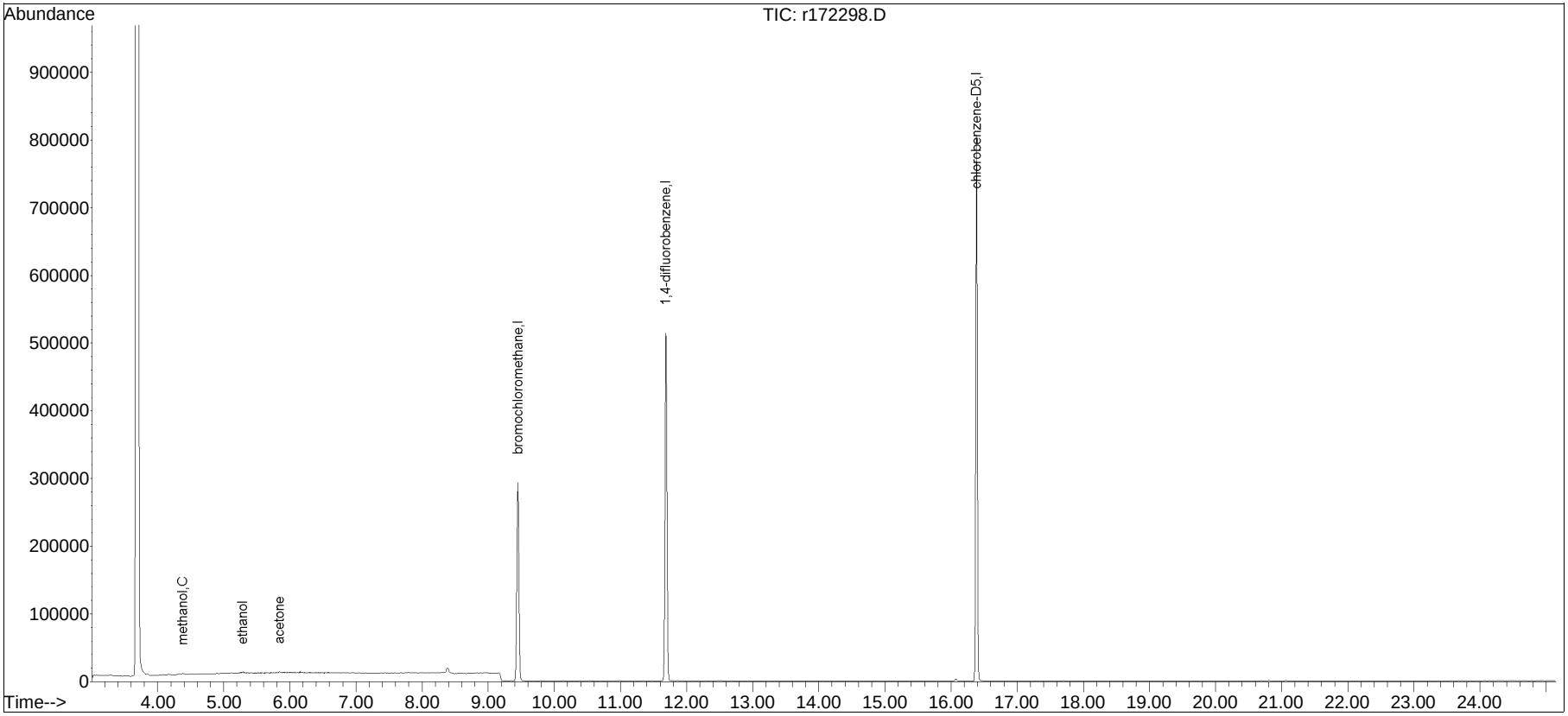
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79)	1,1,1,2-tetrachloroethane	0.000		0		N.D.	
80)	chlorobenzene	0.000		0		N.D.	
81)	ethylbenzene	0.000		0		N.D.	
83)	m+p-xylene	0.000		0		N.D.	
84)	bromoform	16.983		0		N.D.	
85)	styrene	0.000		0		N.D.	
86)	1,1,2,2-tetrachloroethane	17.325		0		N.D.	
87)	o-xylene	0.000		0		N.D.	
88)	1,2,3-trichloropropane	17.442		0		N.D.	
89)	nonane	0.000		0		N.D.	
91)	isopropylbenzene	0.000		0		N.D.	
92)	bromobenzene	0.000		0		N.D.	
93)	2-chlorotoluene	0.000		0		N.D.	
94)	n-propylbenzene	0.000		0		N.D.	
95)	4-chlorotoluene	0.000		0		N.D.	
96)	4-ethyl toluene	18.350		0		N.D.	
97)	1,3,5-trimethylbenzene	18.350		0		N.D.	
98)	tert-butylbenzene	0.000		0		N.D.	
99)	1,2,4-trimethylbenzene	18.958		0		N.D.	
100)	decane	0.000		0		N.D.	
101)	Benzyl Chloride	0.000		0		N.D.	
102)	1,3-dichlorobenzene	18.925		0		N.D.	
103)	1,4-dichlorobenzene	18.925		0		N.D.	
104)	sec-butylbenzene	18.958		0		N.D.	
106)	p-isopropyltoluene	0.000		0		N.D.	
107)	1,2-dichlorobenzene	19.200		0		N.D.	
108)	n-butylbenzene	19.425		0		N.D.	
111)	1,2-dibromo-3-chloropr...	19.567		0		N.D.	
112)	undecane	0.000		0		N.D.	
114)	dodecane	0.000		0		N.D.	
115)	1,2,4-trichlorobenzene	20.692		0		N.D.	
116)	naphthalene	20.808		0		N.D.	
117)	1,2,3-trichlorobenzene	21.058		0		N.D.	
119)	hexachlorobutadiene	21.133		0		N.D.	

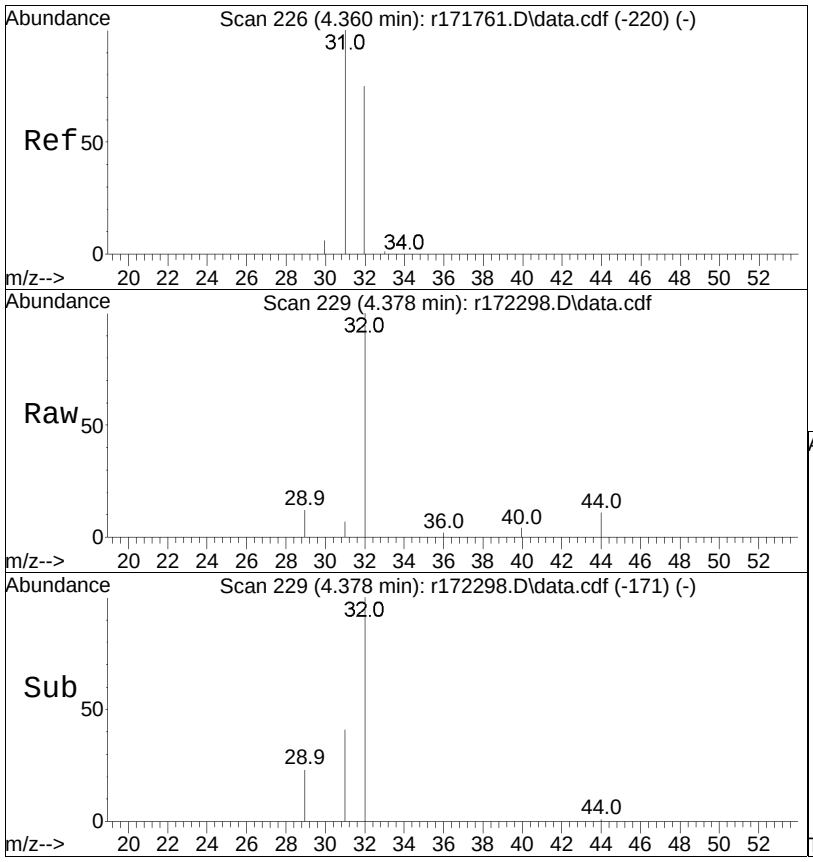
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listedT\r172296.D

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172298.D
Acq On : 16 Jun 2018 5:31 PM
Operator : AIRLAB17:MB
Sample : WG1126781-4,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 16 17:57:44 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

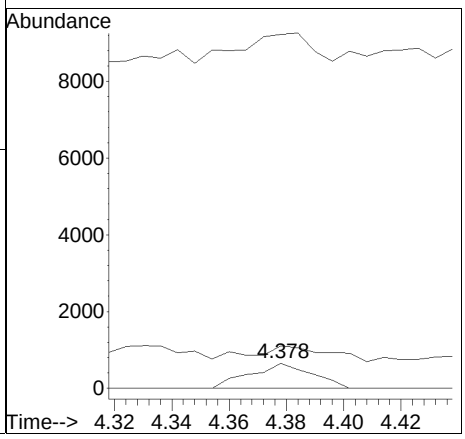


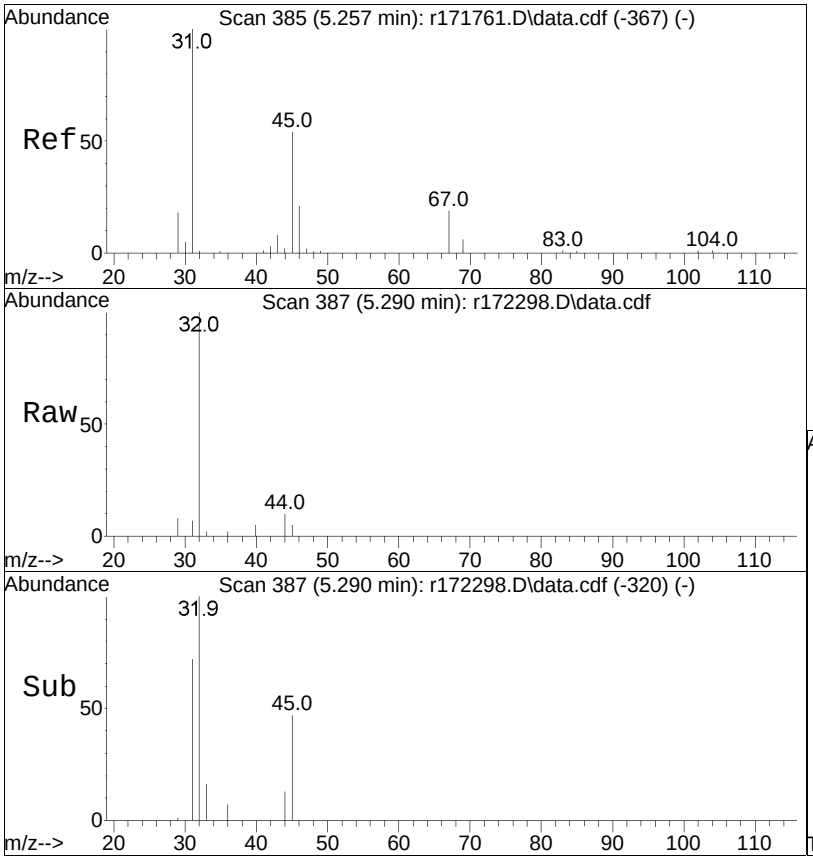


#8
methanol
Concen: 0.23 ppbV
RT: 4.378 min Scan# 229
Delta R.T. 0.018 min
Lab File: r172298.D
Acq: 16 Jun 2018 5:31 PM

Tgt Ion: 31 Resp: 992

Ion	Ratio	Lower	Upper
31	100		
32	1414.4	63.8	95.6#
29	170.1	36.5	54.7#

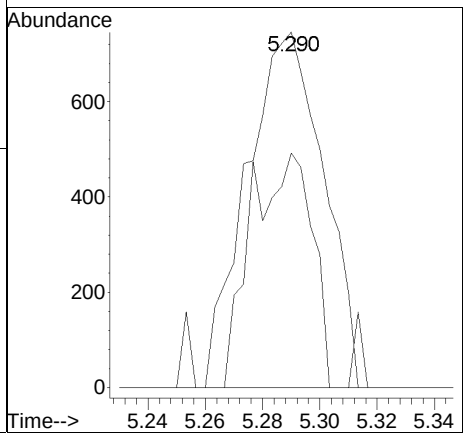


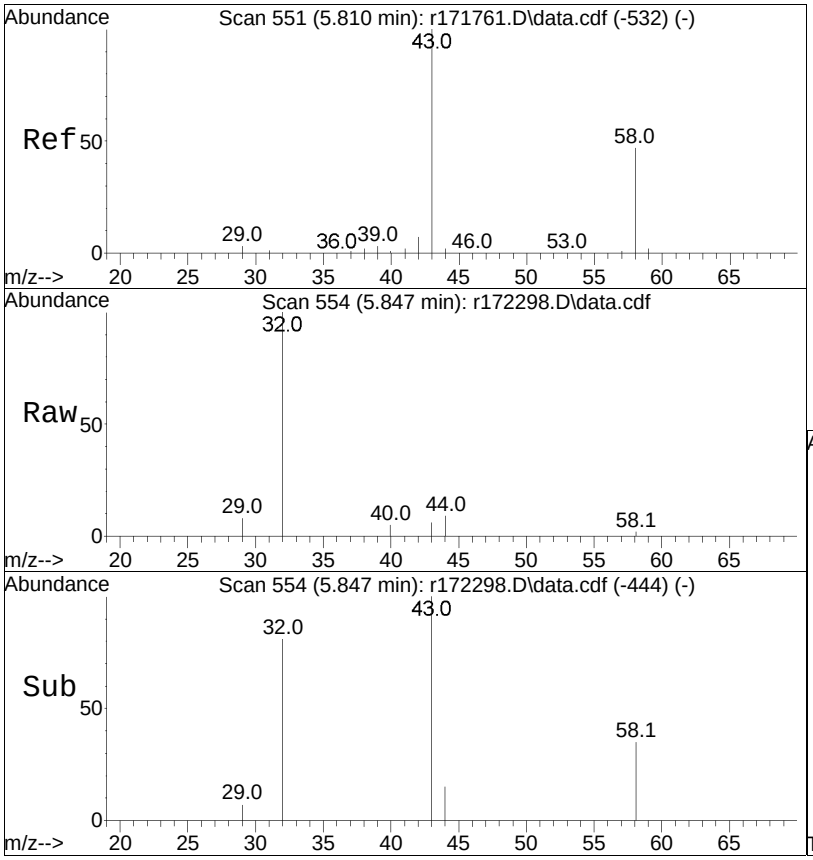


#15
ethanol
Concen: 0.18 ppbV
RT: 5.290 min Scan# 387
Delta R.T. 0.033 min
Lab File: r172298.D
Acq: 16 Jun 2018 5:31 PM

Tgt Ion: 31 Resp: 1394

Ion	Ratio	Lower	Upper
31	100		
45	66.0	42.9	64.3#

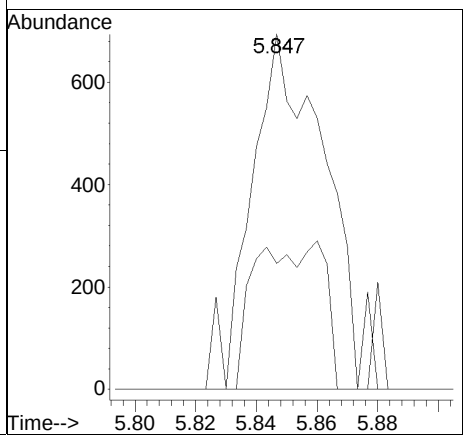




#19
acetone
Concen: 0.08 ppbV
RT: 5.847 min Scan# 554
Delta R.T. 0.037 min
Lab File: r172298.D
Acq: 16 Jun 2018 5:31 PM

Tgt Ion: 43 Resp: 1149

Ion	Ratio	Lower	Upper
43	100		
58	35.4	37.4	56.0#
57	0.0	0.9	1.3#



Manual Integration/Negative Proof Report

Data Path	: O:\Forensics\Data\Airlab17\	QMethod	: TALL180521.M
Data File	: r172298.D	Operator	: AIRLAB17:MB
Date Inj'd	: 6/16/2018 5:31 PM	Instrument	:
Sample	: WG1126781-4,3,250,250	Quant Date	: 6/16/2018 5:57 pm

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172298.D
Acq On : 16 Jun 2018 5:31 PM
Operator : AIRLAB17:MB
Sample : WG1126781-4,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis

Signal : TIC: r172298.D

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.383	1039	1043	1052	rVB	7898	21588	1.66%	0.721%
2	9.450	1162	1169	1178	rBV	293311	627005	48.21%	20.927%
3	11.687	1448	1456	1468	rBV	513381	1046950	80.50%	34.943%
4	16.383	2056	2061	2073	rBV	807175	1300637	100.00%	43.410%

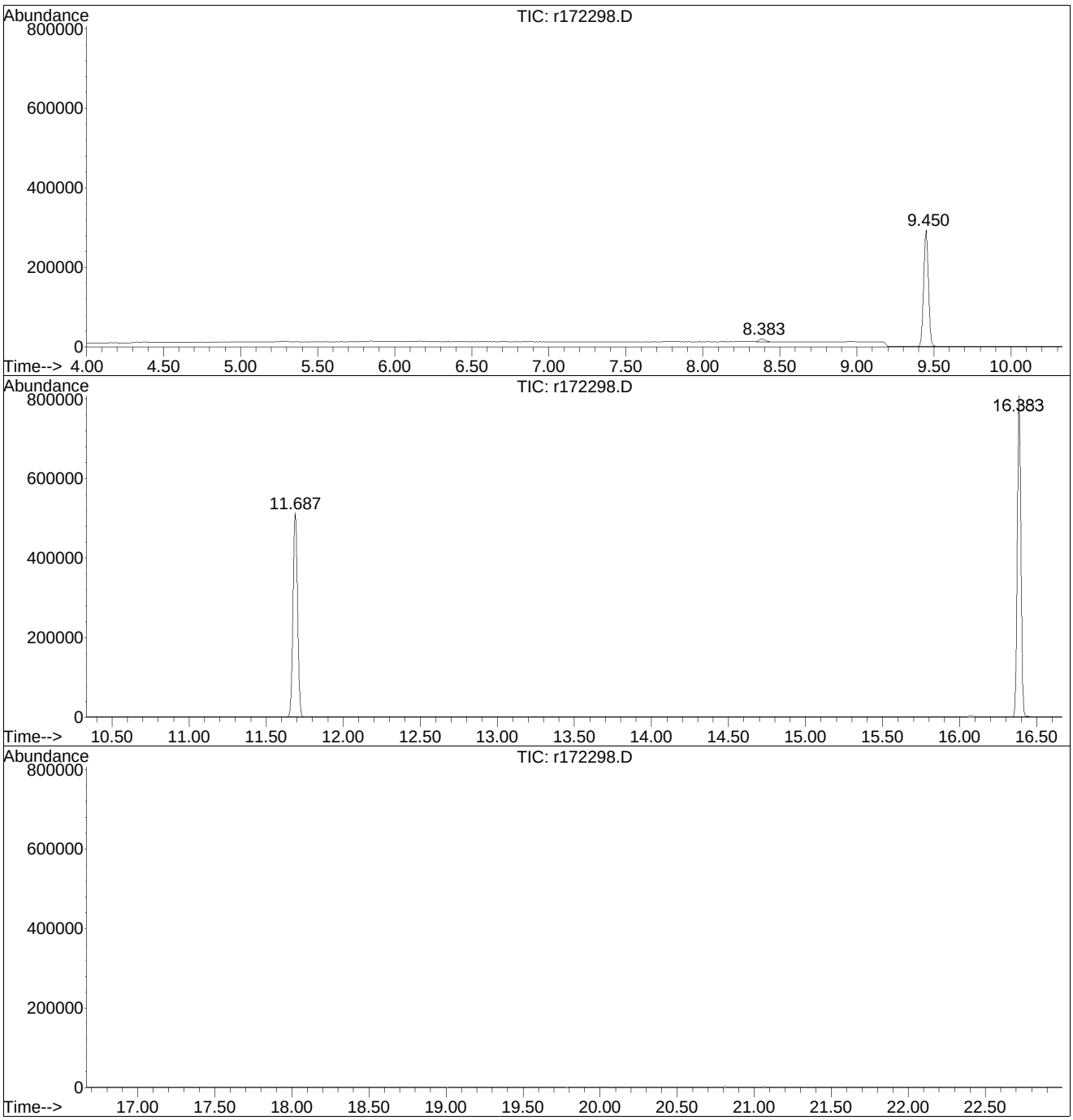
Sum of corrected areas: 2996180

LSC Report - Integrated Chromatogram

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172298.D
Acq On : 16 Jun 2018 5:31 PM
Operator : AIRLAB17:MB
Sample : WG1126781-4,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis

TIC Library : O:\Organics\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172298.D
Acq On : 16 Jun 2018 5:31 PM
Operator : AIRLAB17:MB
Sample : WG1126781-4,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis

TIC Library : O:\Organics\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172298.D
Acq On : 16 Jun 2018 5:31 PM
Operator : AIRLAB17:MB
Sample : WG1126781-4,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis

TIC Library : O:\Organics\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172296.D
Acq On : 16 Jun 2018 3:23 PM
Operator : AIRLAB17:MB
Sample : WG1126781-3,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 16 15:45:33 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
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	80	0.02
2		chlorodifluoromethane	10.000	8.437	15.6	68	0.02
3		propylene	10.000	10.383	-3.8	83	0.02
4		propane	10.000	7.511	24.9	61	0.01
5		dichlorodifluoromethane	10.000	9.514	4.9	78	0.02
6	C	chloromethane	10.000	8.749	12.5	72	0.02
7		Freon-114	10.000	9.844	1.6	79	0.01
8	C	methanol	50.000	40.271	19.5	61	0.01
9	C	vinyl chloride	10.000	9.578	4.2	80	0.02
10	C	1,3-butadiene	10.000	9.762	2.4	81	0.02
11		butane	10.000	8.364	16.4	67	0.02
13	C	bromomethane	10.000	9.761	2.4	82	0.02
14	C	chloroethane	10.000	9.066	9.3	72	0.02
15		ethanol	50.000	45.310	9.4	67	0.02
16		dichlorofluoromethane	10.000	10.447	-4.5	86	0.01
17	C	vinyl bromide	10.000	9.872	1.3	83	0.02
18	C	acrolein	10.000	8.364	16.4	68	0.02
19		acetone	50.000	37.708	24.6	77	0.02
20	C	acetonitrile	10.000	8.075	19.3	67	0.02
21		trichlorofluoromethane	10.000	10.001	-0.0	83	0.02
22		isopropyl alcohol	25.000	17.418	30.3#	69	0.02
23	C	acrylonitrile	10.000	8.501	15.0	71	0.02
24		pentane	10.000	7.838	21.6	64	0.02
25		ethyl ether	10.000	7.770	22.3	63	0.02
26	C	1,1-dichloroethene	10.000	9.416	5.8	79	0.02
27		tertiary butyl alcohol	10.000	7.856	21.4	64	0.02
28	C	methylene chloride	10.000	9.001	10.0	71	0.02
29	C	3-chloropropene	10.000	9.502	5.0	78	0.02
30	C	carbon disulfide	10.000	9.260	7.4	75	0.02
31		Freon 113	10.000	10.061	-0.6	83	0.02
32		trans-1,2-dichloroethene	10.000	9.275	7.2	78	0.03
33	C	1,1-dichloroethane	10.000	8.851	11.5	77	0.02
34	C	MTBE	10.000	9.053	9.5	76	0.03
35	C	vinyl acetate	10.000	10.281	-2.8	77	0.02
36	C	2-butanone	10.000	8.947	10.5	72	0.03
37		cis-1,2-dichloroethene	10.000	8.974	10.3	71	0.03
38		Ethyl Acetate	10.000	10.299	-3.0	82	0.02
39	C	chloroform	10.000	10.120	-1.2	84	0.02
40		Tetrahydrofuran	10.000	9.245	7.6	69	0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172296.D
Acq On : 16 Jun 2018 3:23 PM
Operator : AIRLAB17:MB
Sample : WG1126781-3,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 16 15:45:33 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
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	9.034	9.7	72	0.02
42	C	1,2-dichloroethane	10.000	9.610	3.9	79	0.02
43	I	1,4-difluorobenzene	10.000	10.000	0.0	89	0.02
44	C	hexane	10.000	9.087	9.1	80	0.02
45		diisopropyl ether	10.000	8.109	18.9	71	0.02
46		tert-butyl ethyl ether	10.000	7.555	24.5	65	0.02
48	C	1,1,1-trichloroethane	10.000	9.325	6.8	86	0.02
49		1,1-dichloropropene	10.000	8.631	13.7	76	0.02
50	C	benzene	10.000	8.482	15.2	77	0.02
52	C	carbon tetrachloride	10.000	9.889	1.1	90	0.02
53		cyclohexane	10.000	9.080	9.2	80	0.02
54		tert-amyl methyl ether	10.000	7.378	26.2	64	0.02
55		dibromomethane	10.000	8.271	17.3	77	0.02
56	C	1,2-dichloropropane	10.000	8.487	15.1	77	0.02
57		bromodichloromethane	10.000	9.632	3.7	88	0.02
58	C	1,4-dioxane	10.000	9.420	5.8	82	0.02
59	C	trichloroethene	10.000	9.183	8.2	84	0.01
60	C	2,2,4-trimethylpentane	10.000	9.428	5.7	84	0.02
61		methyl methacrylate	10.000	6.787	32.1#	76	0.01
62		heptane	10.000	8.691	13.1	74	0.02
63	C	cis-1,3-dichloropropene	10.000	9.252	7.5	80	0.02
64	C	4-methyl-2-pentanone	10.000	8.468	15.3	71	0.03
65		trans-1,3-dichloropropene	10.000	7.992	20.1	68	0.02
66	C	1,1,2-trichloroethane	10.000	8.848	11.5	82	0.02
67	I	chlorobenzene-D5	10.000	10.000	0.0	81	0.03
68	C	toluene	10.000	9.524	4.8	80	0.03
71		1,3-dichloropropane	10.000	8.665	13.4	73	0.02
72		2-hexanone	10.000	8.864	11.4	69	0.02
74		dibromochloromethane	10.000	11.055	-10.5	92	0.02
75	C	1,2-dibromoethane	10.000	9.714	2.9	82	0.02
76		butyl acetate	10.000	8.565	14.4	64	0.03
77		octane	10.000	9.087	9.1	73	0.02
78	C	tetrachloroethene	10.000	9.635	3.7	83	0.02
79		1,1,1,2-tetrachloroethane	10.000	9.492	5.1	79	0.02
80	C	chlorobenzene	10.000	9.681	3.2	80	0.02
81	C	ethylbenzene	10.000	9.997	0.0	79	0.02
83	C	m+p-xylene	20.000	19.835	0.8	79	0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172296.D
Acq On : 16 Jun 2018 3:23 PM
Operator : AIRLAB17:MB
Sample : WG1126781-3,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 16 15:45:33 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
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	10.972	-9.7	91	0.02
85	C	styrene	10.000	9.906	0.9	77	0.02
86	C	1,1,2,2-tetrachloroethane	10.000	9.989	0.1	77	0.02
87	C	o-xylene	10.000	10.263	-2.6	81	0.02
88		1,2,3-trichloropropane	10.000	8.915	10.9	72	0.02
89		nonane	10.000	8.477	15.2	65	0.02
91	C	isopropylbenzene	10.000	9.869	1.3	78	0.02
92		bromobenzene	10.000	8.942	10.6	72	0.02
93		2-chlorotoluene	10.000	9.357	6.4	74	0.02
94		n-propylbenzene	10.000	9.749	2.5	75	0.02
95		4-chlorotoluene	10.000	9.402	6.0	75	0.02
96		4-ethyl toluene	10.000	10.674	-6.7	79	0.02
97		1,3,5-trimethylbenzene	10.000	11.079	-10.8	79	0.02
98		tert-butylbenzene	10.000	10.259	-2.6	74	0.02
99		1,2,4-trimethylbenzene	10.000	10.947	-9.5	77	0.02
100		decane	10.000	9.607	3.9	69	0.02
101	C	Benzyl Chloride	10.000	11.518	-15.2	79	0.02
102		1,3-dichlorobenzene	10.000	10.637	-6.4	81	0.02
103	C	1,4-dichlorobenzene	10.000	10.331	-3.3	77	0.02
104		sec-butylbenzene	10.000	9.842	1.6	73	0.02
106		p-isopropyltoluene	10.000	9.601	4.0	70	0.02
107		1,2-dichlorobenzene	10.000	10.494	-4.9	79	0.02
108		n-butylbenzene	10.000	10.417	-4.2	74	0.02
111	C	1,2-dibromo-3-chloropropane	10.000	9.726	2.7	71	0.02
112		undecane	10.000	9.740	2.6	66	0.02
114		dodecane	10.000	9.790	2.1	59	0.02
115	C	1,2,4-trichlorobenzene	10.000	10.580	-5.8	69	0.02
116		naphthalene	10.000	10.212	-2.1	68	0.02
117		1,2,3-trichlorobenzene	10.000	9.846	1.5	66	0.02
119	C	hexachlorobutadiene	10.000	10.641	-6.4	75	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 : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172296.D
Acq On : 16 Jun 2018 3:23 PM
Operator : AIRLAB17:MB
Sample : WG1126781-3,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 16 15:45:33 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180616T\r172296.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.450	49	188951	10.000	ppbV	0.02
Standard Area = 188951			Recovery = 100.00%			
43) 1,4-difluorobenzene	11.687	114	604388	10.000	ppbV	0.02
Standard Area = 604388			Recovery = 100.00%			
67) chlorobenzene-D5	16.425	54	80538	10.000	ppbV	0.03
Standard Area = 80538			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
2) chlorodifluoromethane	3.910	51	171595	8.437	ppbV	98
3) propylene	3.940	41	114583M6	10.383	ppbV	
4) propane	3.964	29	107792	7.511	ppbV #	94
5) dichlorodifluoromethane	4.018	85	222782	9.514	ppbV	100
6) chloromethane	4.192	50	106197	8.749	ppbV	100
7) Freon-114	4.312	85	320251	9.844	ppbV	93
8) methanol	4.372	31	193482	40.271	ppbV	94
9) vinyl chloride	4.444	62	135503	9.578	ppbV	99
10) 1,3-butadiene	4.600	54	110893	9.762	ppbV	98
11) butane	4.666	43	159598	8.364	ppbV	99
13) bromomethane	4.906	94	128436	9.761	ppbV	100
14) chloroethane	5.122	64	67179	9.066	ppbV	98
15) ethanol	5.273	31	391853	45.310	ppbV	97
16) dichlorofluoromethane	5.253	67	242706	10.447	ppbV	99
17) vinyl bromide	5.533	106	131375	9.872	ppbV	100
18) acrolein	5.680	56	52170	8.364	ppbV	96
19) acetone	5.827	43	611318	37.708	ppbV	94
20) acetonitrile	5.520	41	89588	8.075	ppbV	97
21) trichlorofluoromethane	6.040	101	209193	10.001	ppbV	100
22) isopropyl alcohol	6.140	45	340648M4	17.418	ppbV	
23) acrylonitrile	6.397	53	95327	8.501	ppbV	98
24) pentane	6.473	43	178857M6	7.838	ppbV	
25) ethyl ether	6.510	31	145291	7.770	ppbV	94
26) 1,1-dichloroethene	6.786	61	167052	9.416	ppbV	97
27) tertiary butyl alcohol	6.852	59	141847	7.856	ppbV	93
28) methylene chloride	6.954	49	133956	9.001	ppbV	90
29) 3-chloropropene	7.086	41	155837	9.502	ppbV	94
30) carbon disulfide	7.236	76	382045	9.260	ppbV	95
31) Freon 113	7.272	101	262710	10.061	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172296.D
Acq On : 16 Jun 2018 3:23 PM
Operator : AIRLAB17:MB
Sample : WG1126781-3,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 16 15:45:33 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180616T\r172296.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) trans-1,2-dichloroethene	8.058	61	174557	9.275	ppbV	97
33) 1,1-dichloroethane	8.283	63	216356	8.851	ppbV	98
34) MTBE	8.367	73	273551	9.053	ppbV	99
35) vinyl acetate	8.500	43	336760	10.281	ppbV	97
36) 2-butanone	8.758	43	298551	8.947	ppbV	97
37) cis-1,2-dichloroethene	9.267	61	185994	8.974	ppbV	99
38) Ethyl Acetate	9.558	61	56374	10.299	ppbV	79
39) chloroform	9.608	83	263995	10.120	ppbV	97
40) Tetrahydrofuran	10.042	42	176415	9.245	ppbV	92
41) 2,2-dichloropropane	9.625	77	171254	9.034	ppbV	94
42) 1,2-dichloroethane	10.442	62	142048	9.610	ppbV	98
44) hexane	9.525	57	263565	9.087	ppbV	81
45) diisopropyl ether	9.533	87	118914	8.109	ppbV	80
46) tert-butyl ethyl ether	10.150	59	318064	7.555	ppbV	97
48) 1,1,1-trichloroethane	10.733	97	226269	9.325	ppbV	98
49) 1,1-dichloropropene	11.100	75	212892	8.631	ppbV	95
50) benzene	11.253	78	517047	8.482	ppbV	99
52) carbon tetrachloride	11.427	117	233170	9.889	ppbV	99
53) cyclohexane	11.567	56	281383	9.080	ppbV	96
54) tert-amyl methyl ether	11.953	73	294786	7.378	ppbV	96
55) dibromomethane	12.167	93	149737	8.271	ppbV	97
56) 1,2-dichloropropane	12.200	63	177300	8.487	ppbV	99
57) bromodichloromethane	12.427	83	297273	9.632	ppbV	99
58) 1,4-dioxane	12.467	88	120586	9.420	ppbV	94
59) trichloroethene	12.473	130	225888	9.183	ppbV	96
60) 2,2,4-trimethylpentane	12.527	57	896564	9.428	ppbV	97
61) methyl methacrylate	12.727	41	172069	6.787	ppbV	92
62) heptane	12.847	43	321830	8.691	ppbV	93
63) cis-1,3-dichloropropene	13.483	75	259814	9.252	ppbV	96
64) 4-methyl-2-pentanone	13.525	43	343652	8.468	ppbV	95
65) trans-1,3-dichloropropene	14.100	75	202313	7.992	ppbV	96
66) 1,1,2-trichloroethane	14.300	97	213015	8.848	ppbV	99
68) toluene	14.625	91	604542	9.524	ppbV	100
71) 1,3-dichloropropane	14.650	76	263966	8.665	ppbV	94
72) 2-hexanone	14.917	43	309168	8.864	ppbV	94
74) dibromochloromethane	15.075	129	327465	11.055	ppbV	100
75) 1,2-dibromoethane	15.325	107	320571	9.714	ppbV	99
76) butyl acetate	15.583	73	56274	8.565	ppbV	93
77) octane	15.675	85	212626	9.087	ppbV	90
78) tetrachloroethene	15.800	166	261504	9.635	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172296.D
Acq On : 16 Jun 2018 3:23 PM
Operator : AIRLAB17:MB
Sample : WG1126781-3,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 16 15:45:33 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180616T\r172296.D
Sub List : Default-LCS-AP2 - All compounds listed

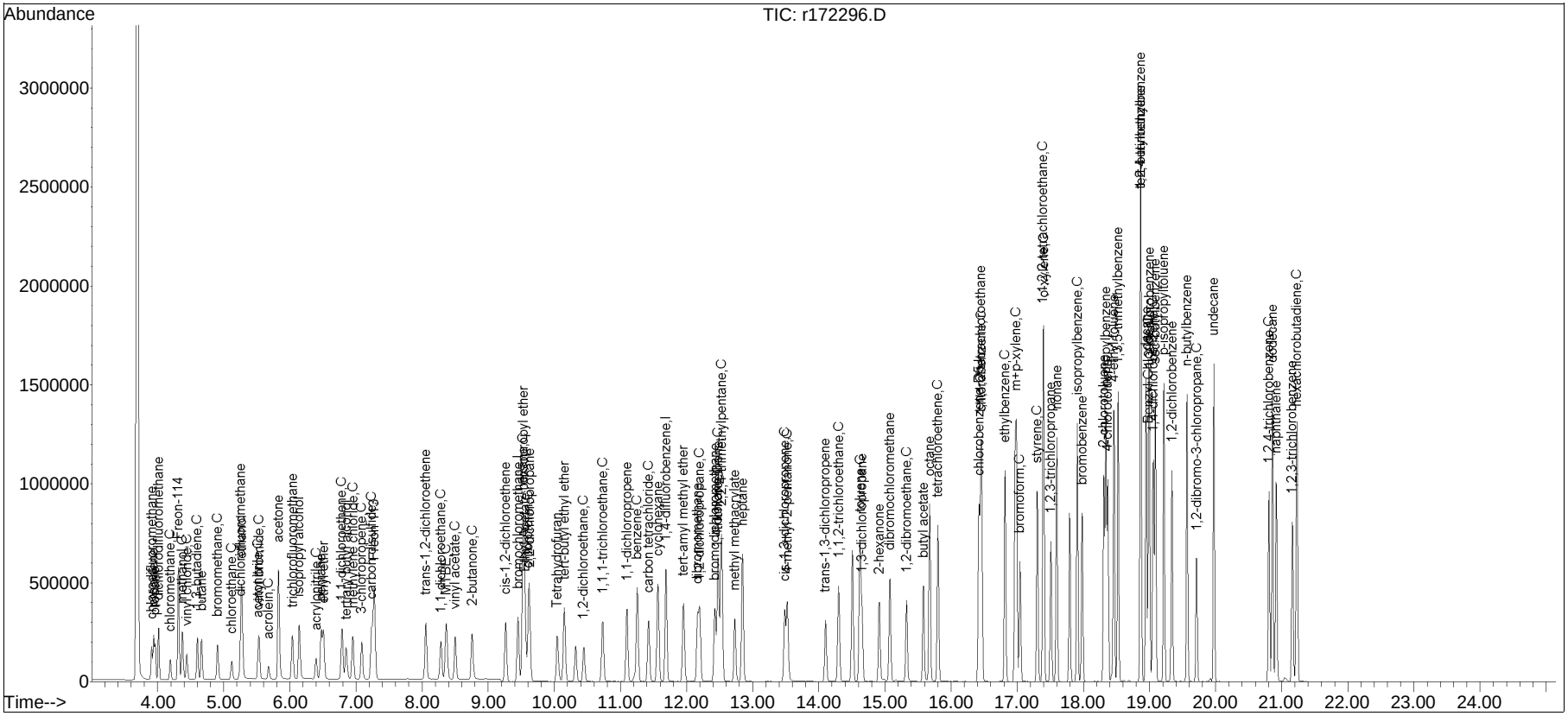
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) 1,1,1,2-tetrachloroethane	16.450	131	211872	9.492	ppbV	99
80) chlorobenzene	16.458	112	537329	9.681	ppbV	98
81) ethylbenzene	16.817	91	769847	9.997	ppbV	99
83) m+p-xylene	16.983	91	1256008	19.835	ppbV	99
84) bromoform	17.042	173	293802	10.972	ppbV	98
85) styrene	17.300	104	538089	9.906	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.392	83	465652	9.989	ppbV	99
87) o-xylene	17.400	91	639596	10.263	ppbV	98
88) 1,2,3-trichloropropane	17.508	75	324384	8.915	ppbV	97
89) nonane	17.600	43	427318	8.477	ppbV	92
91) isopropylbenzene	17.908	105	854963	9.869	ppbV	99
92) bromobenzene	17.983	77	418376	8.942	ppbV	92
93) 2-chlorotoluene	18.308	126	236665	9.357	ppbV	98
94) n-propylbenzene	18.342	120	284557	9.749	ppbV	96
95) 4-chlorotoluene	18.367	126	237224	9.402	ppbV	97
96) 4-ethyl toluene	18.458	105	960970	10.674	ppbV	100
97) 1,3,5-trimethylbenzene	18.525	105	916118	11.079	ppbV	99
98) tert-butylbenzene	18.867	119	780207	10.259	ppbV	99
99) 1,2,4-trimethylbenzene	18.867	105	780970	10.947	ppbV	98
100) decane	18.950	57	506661	9.607	ppbV	93
101) Benzyl Chloride	18.983	91	530657	11.518	ppbV	100
102) 1,3-dichlorobenzene	19.000	146	495565	10.637	ppbV	97
103) 1,4-dichlorobenzene	19.058	146	478324	10.331	ppbV	98
104) sec-butylbenzene	19.092	105	1049305	9.842	ppbV	100
106) p-isopropyltoluene	19.217	119	853870	9.601	ppbV	99
107) 1,2-dichlorobenzene	19.342	146	456613	10.494	ppbV	98
108) n-butylbenzene	19.567	91	753848	10.417	ppbV	100
111) 1,2-dibromo-3-chloropr...	19.717	75	164594	9.726	ppbV	91
112) undecane	19.975	57	518771	9.740	ppbV	96
114) dodecane	20.858	57	500471	9.790	ppbV	94
115) 1,2,4-trichlorobenzene	20.808	180	326105	10.580	ppbV	97
116) naphthalene	20.917	128	872540	10.212	ppbV	99
117) 1,2,3-trichlorobenzene	21.158	180	301257	9.846	ppbV	99
119) hexachlorobutadiene	21.225	225	310993	10.641	ppbV	98

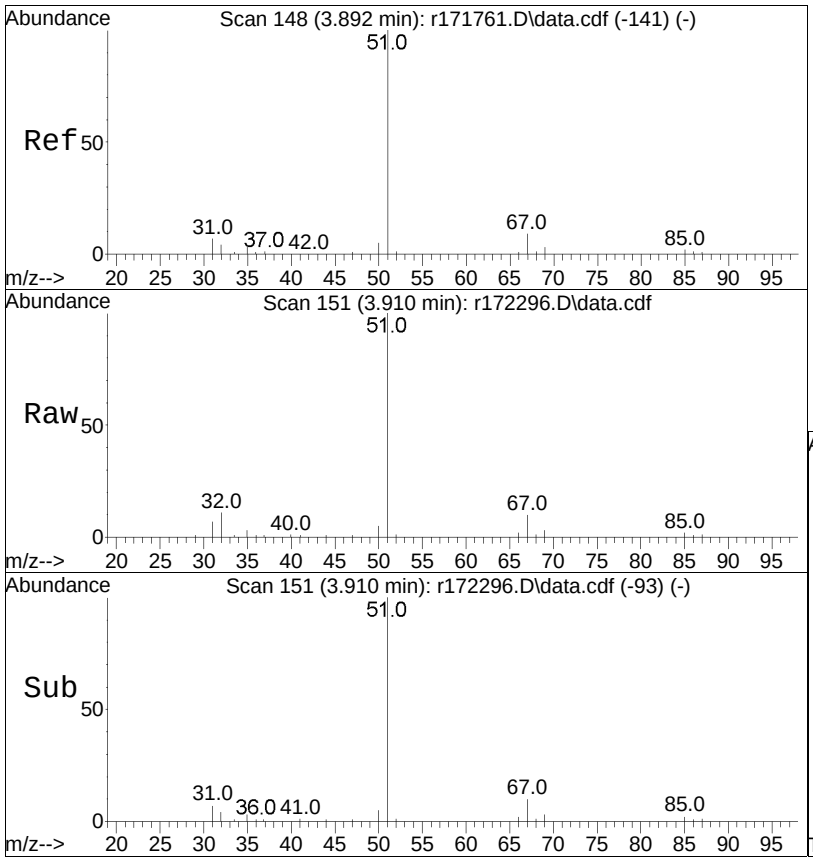
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listedT\r172296.D

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172296.D
Acq On : 16 Jun 2018 3:23 PM
Operator : AIRLAB17:MB
Sample : WG1126781-3,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 16 15:45:33 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

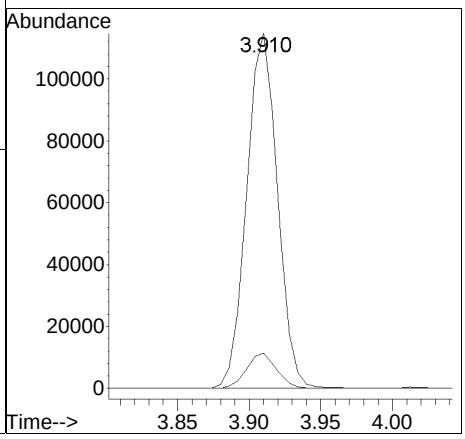


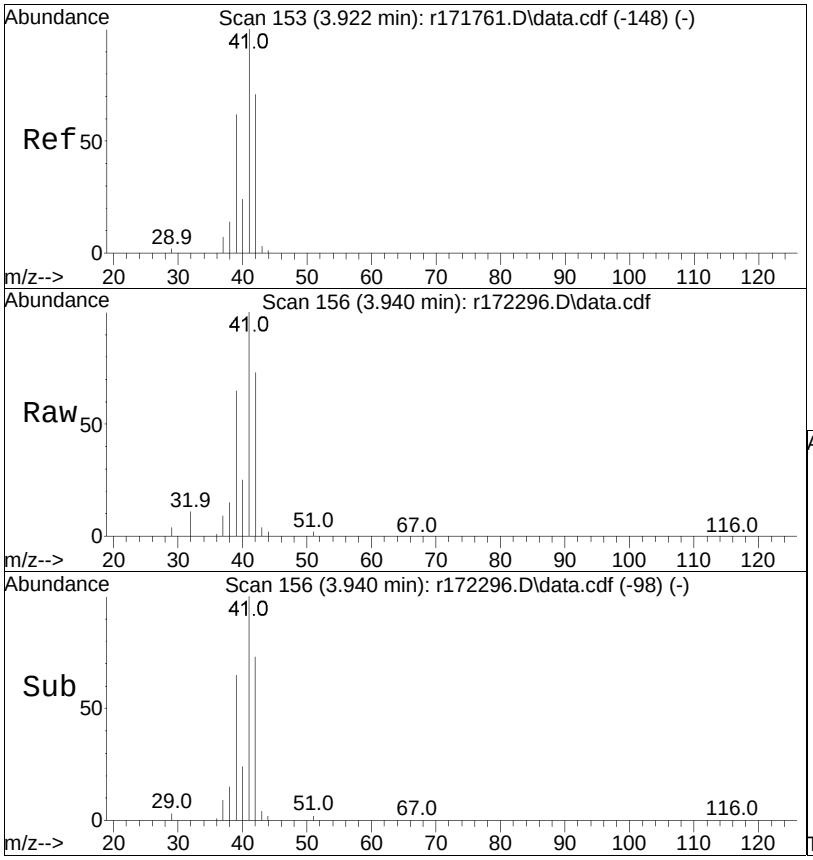


#2
chlorodifluoromethane
Concen: 8.44 ppbV
RT: 3.910 min Scan# 151
Delta R.T. 0.018 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 51 Resp: 171595

Ion	Ratio	Lower	Upper
51	100		
67	10.0	7.4	11.2

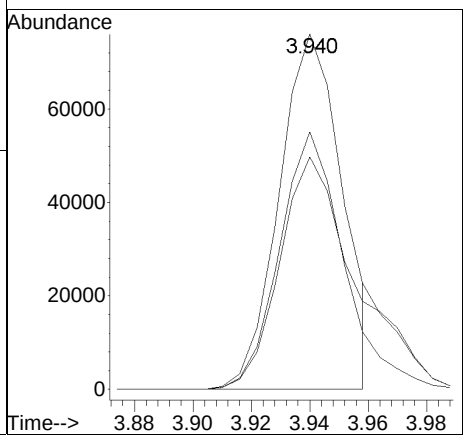


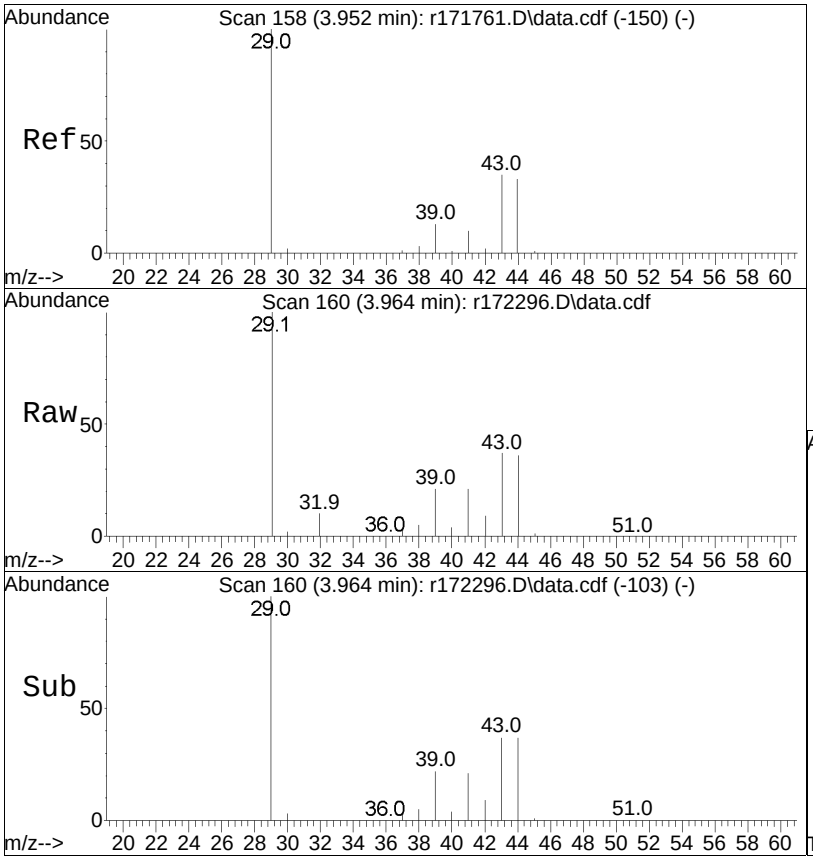


#3
propylene
Concen: 10.38 ppbV m
RT: 3.940 min Scan# 156
Delta R.T. 0.018 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 41 Resp: 114583

Ion	Ratio	Lower	Upper
41	100		
42	72.5	56.7	85.1
39	65.4	49.9	74.9

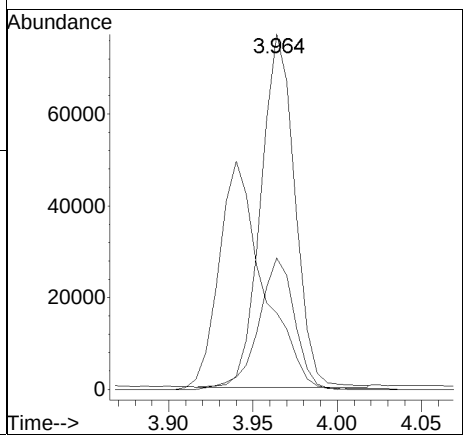


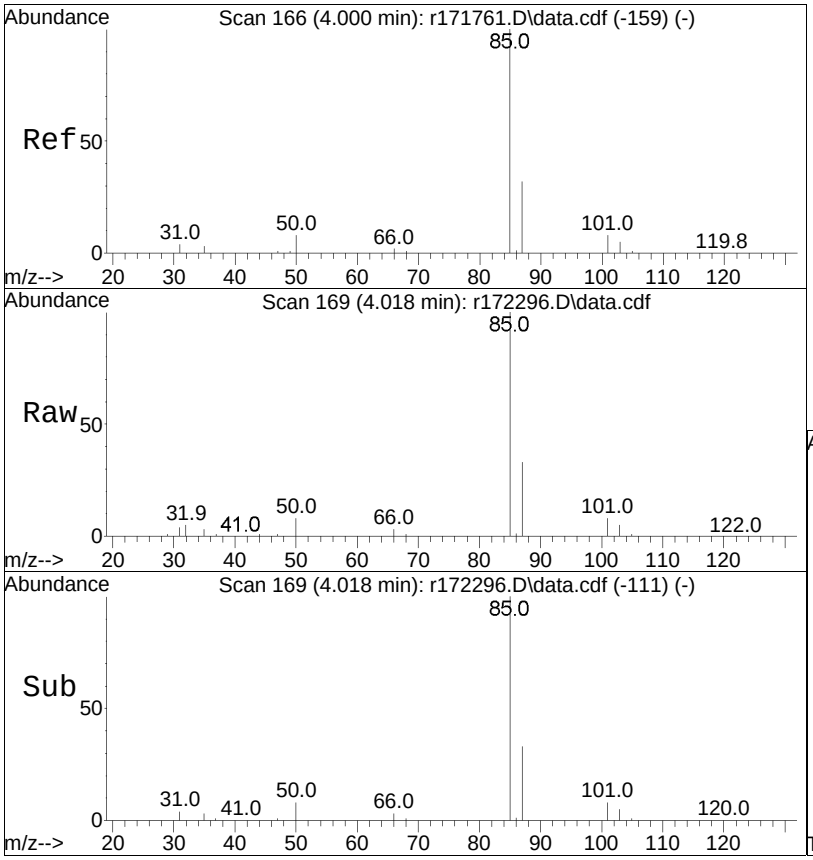


#4
propane
Concen: 7.51 ppbV
RT: 3.964 min Scan# 160
Delta R.T. 0.012 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 29 Resp: 107792

Ion	Ratio	Lower	Upper
29	100		
43	37.0	27.6	41.4
39	21.5	13.8	20.8#

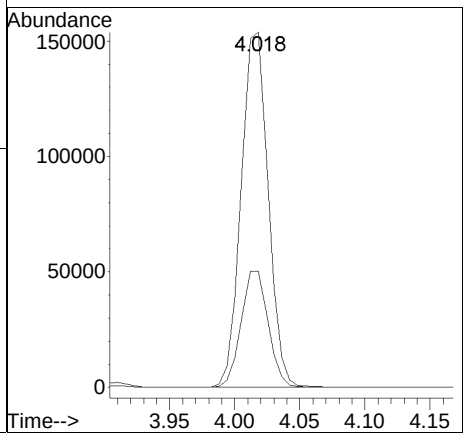


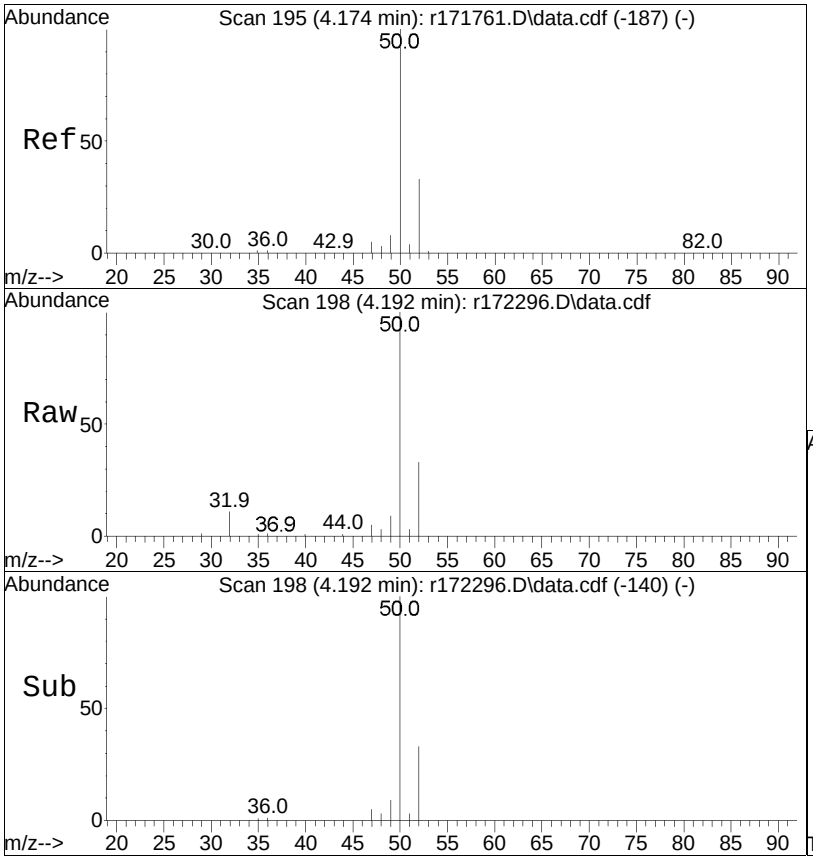


#5
dichlorodifluoromethane
Concen: 9.51 ppbV
RT: 4.018 min Scan# 169
Delta R.T. 0.018 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 85 Resp: 222782

Ion	Ratio	Lower	Upper
85	100		
87	32.6	26.0	39.0

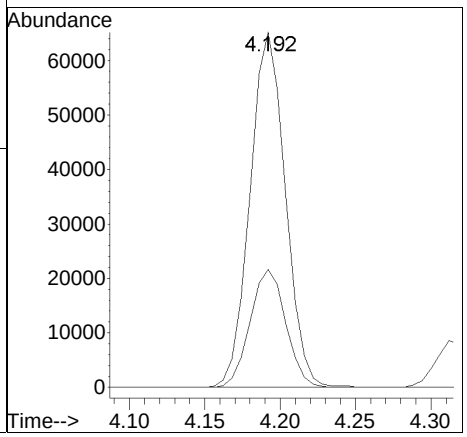


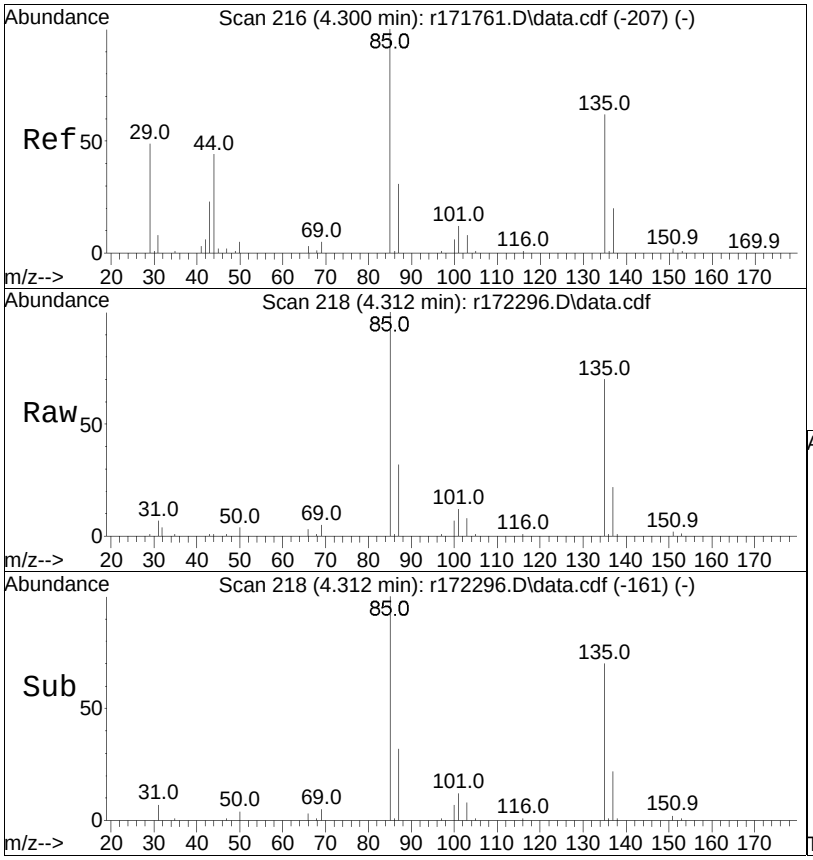


#6
chloromethane
Concen: 8.75 ppbV
RT: 4.192 min Scan# 198
Delta R.T. 0.018 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 50 Resp: 106197

Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.6	39.8

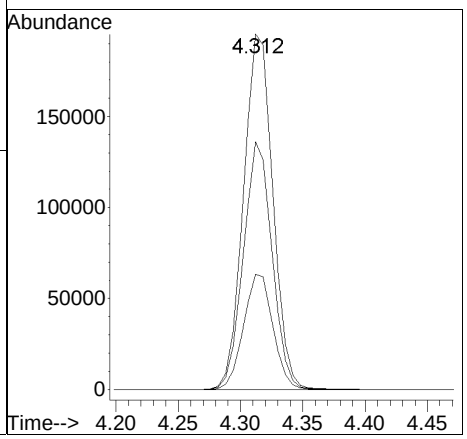


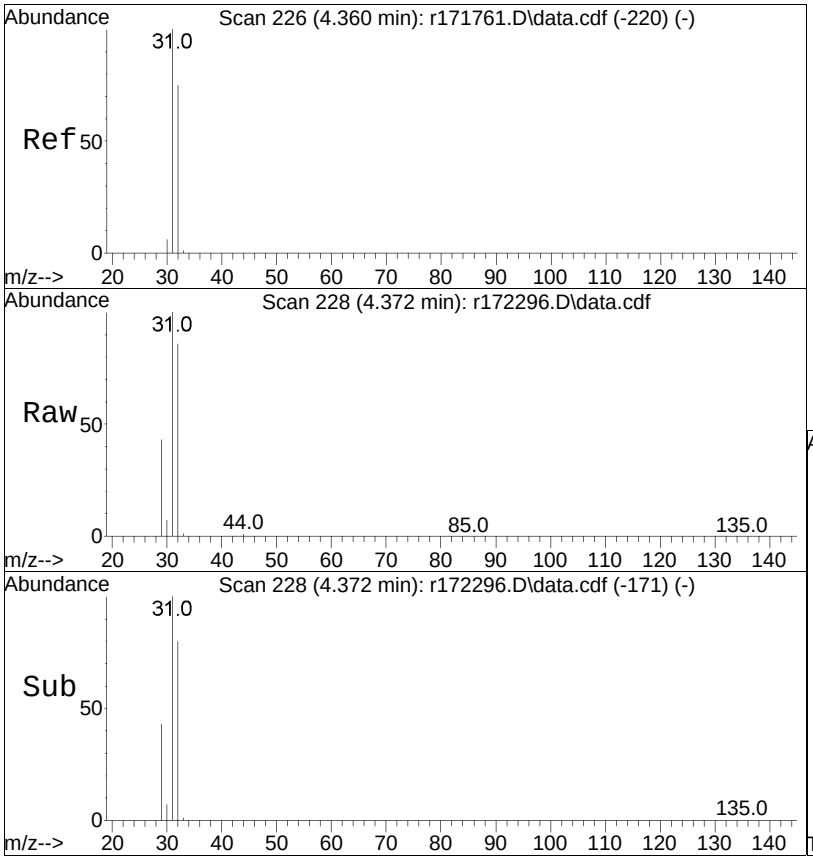


#7
Freon-114
Concen: 9.84 ppbV
RT: 4.312 min Scan# 218
Delta R.T. 0.012 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 85 Resp: 320251

Ion	Ratio	Lower	Upper
85	100		
87	32.4	25.1	37.7
135	69.7	49.5	74.3

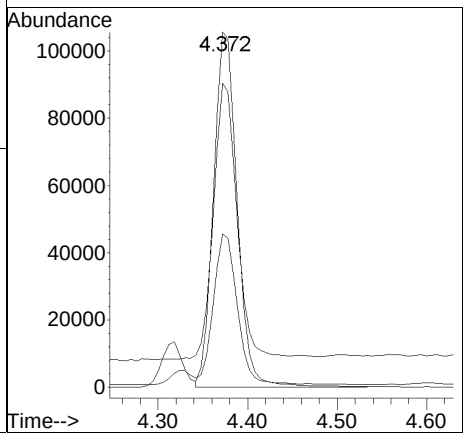


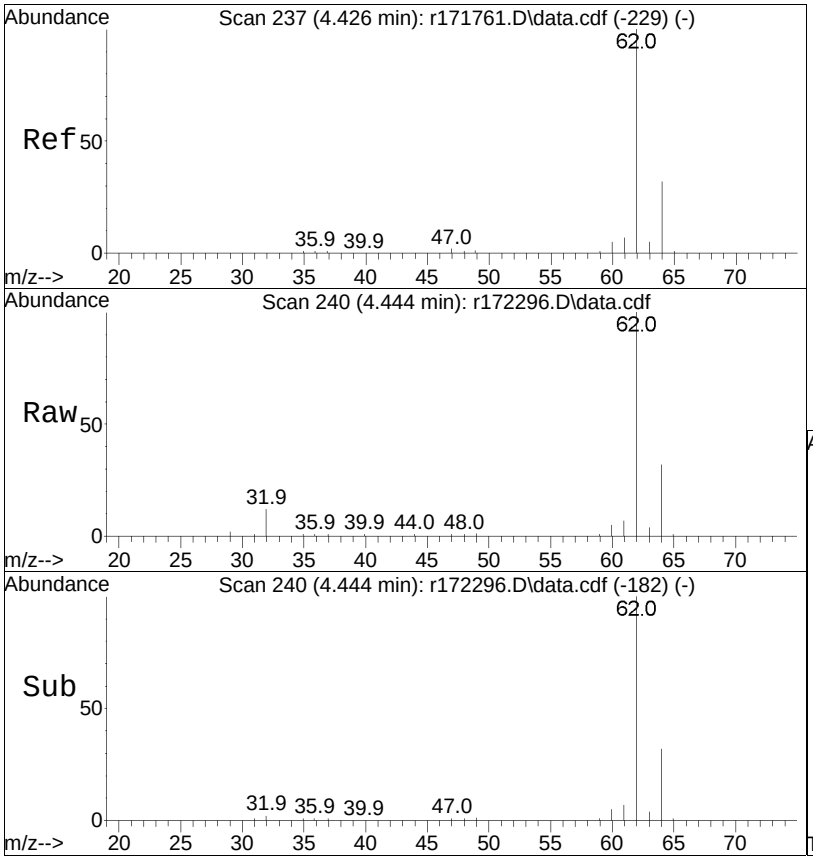


#8
methanol
Concen: 40.27 ppbV
RT: 4.372 min Scan# 228
Delta R.T. 0.012 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 31 Resp: 193482

Ion	Ratio	Lower	Upper
31	100		
32	85.6	63.8	95.6
29	43.2	36.5	54.7

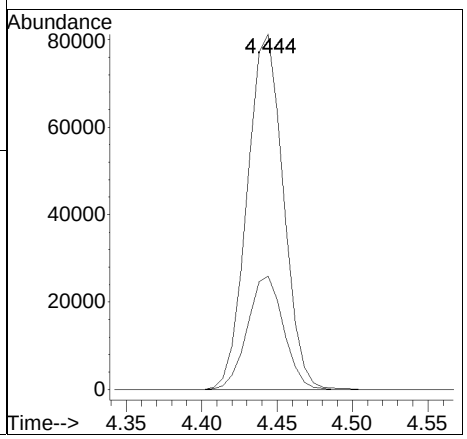


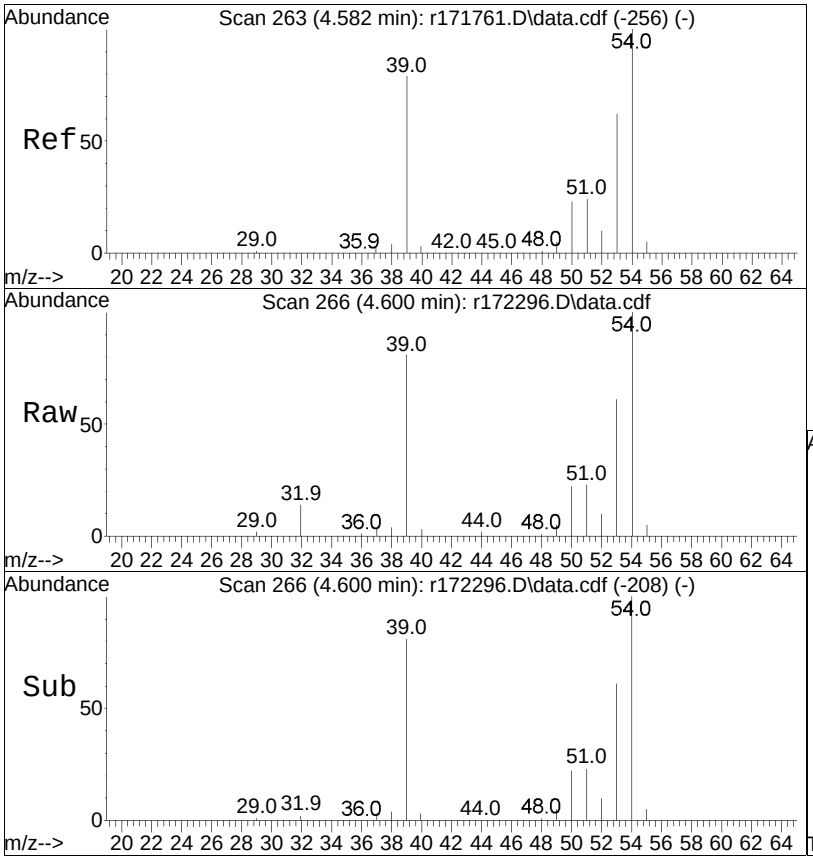


#9
vinyl chloride
Concen: 9.58 ppbV
RT: 4.444 min Scan# 240
Delta R.T. 0.018 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 62 Resp: 135503

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.3	37.9

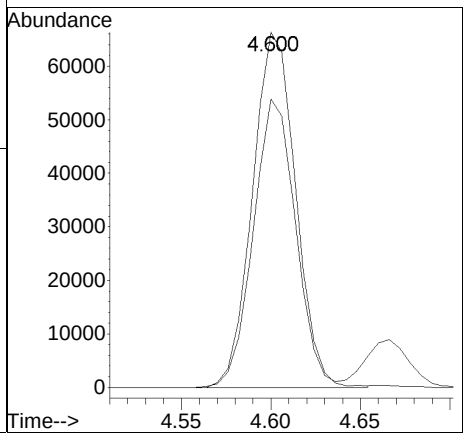


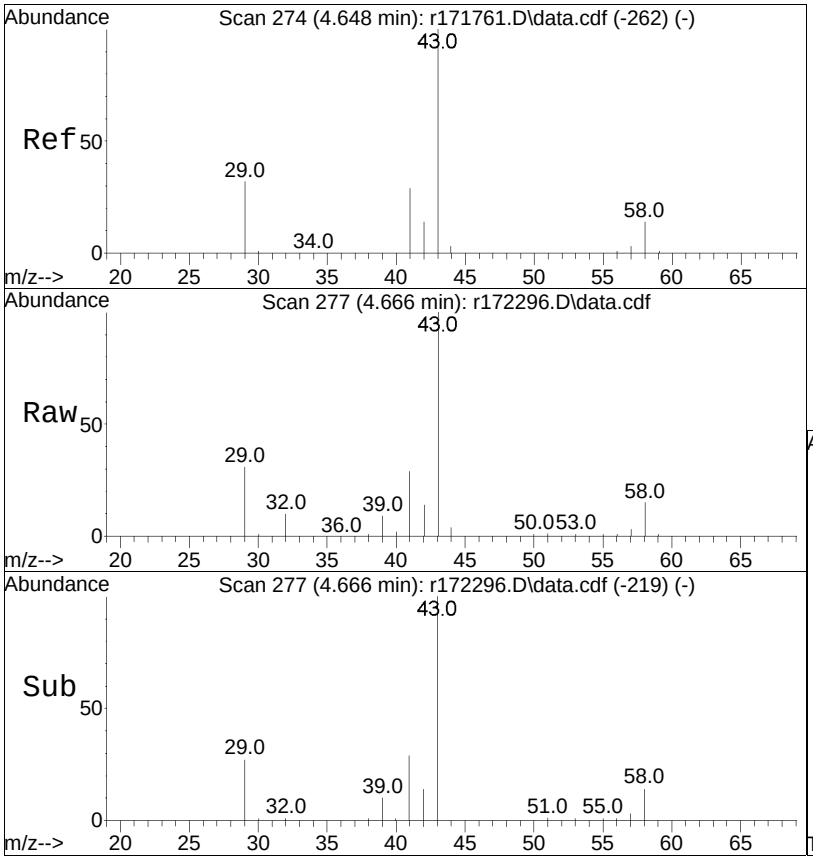


#10
1,3-butadiene
Concen: 9.76 ppbV
RT: 4.600 min Scan# 266
Delta R.T. 0.018 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 54 Resp: 110893

Ion	Ratio	Lower	Upper
54	100		
39	81.2	63.5	95.3

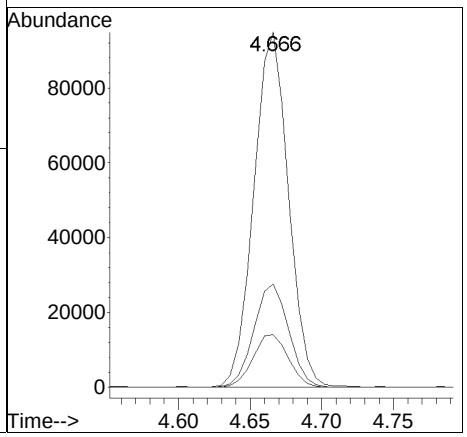


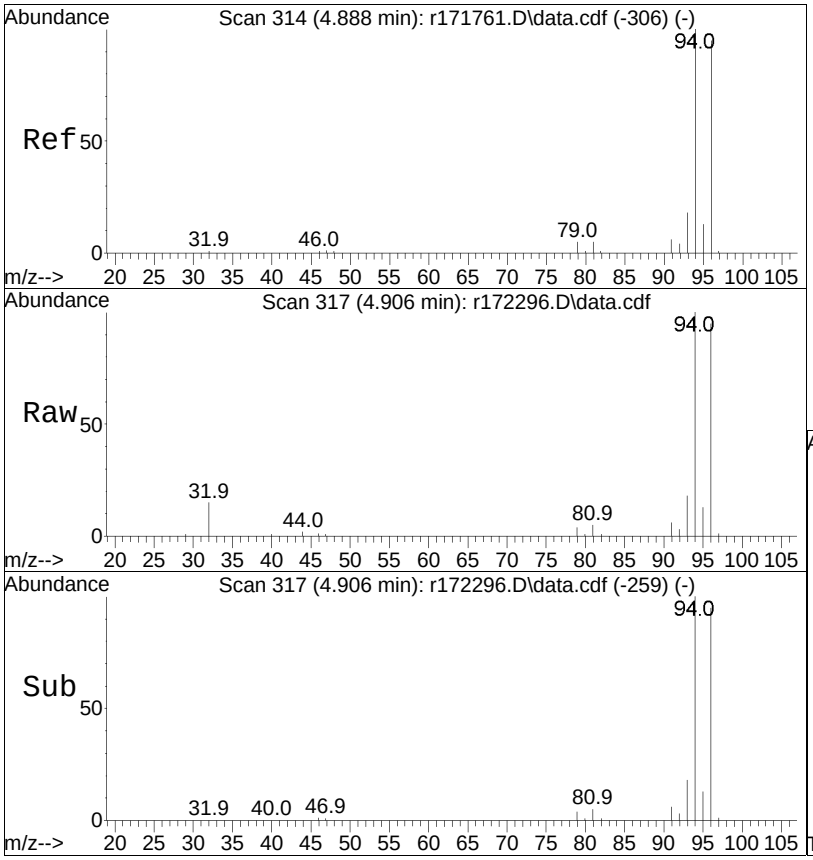


#11
butane
Concen: 8.36 ppbV
RT: 4.666 min Scan# 277
Delta R.T. 0.018 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 43 Resp: 159598

Ion	Ratio	Lower	Upper
43	100		
58	14.9	11.0	16.4
41	29.1	23.3	34.9

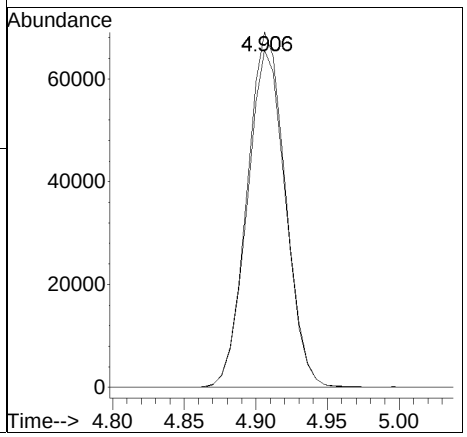


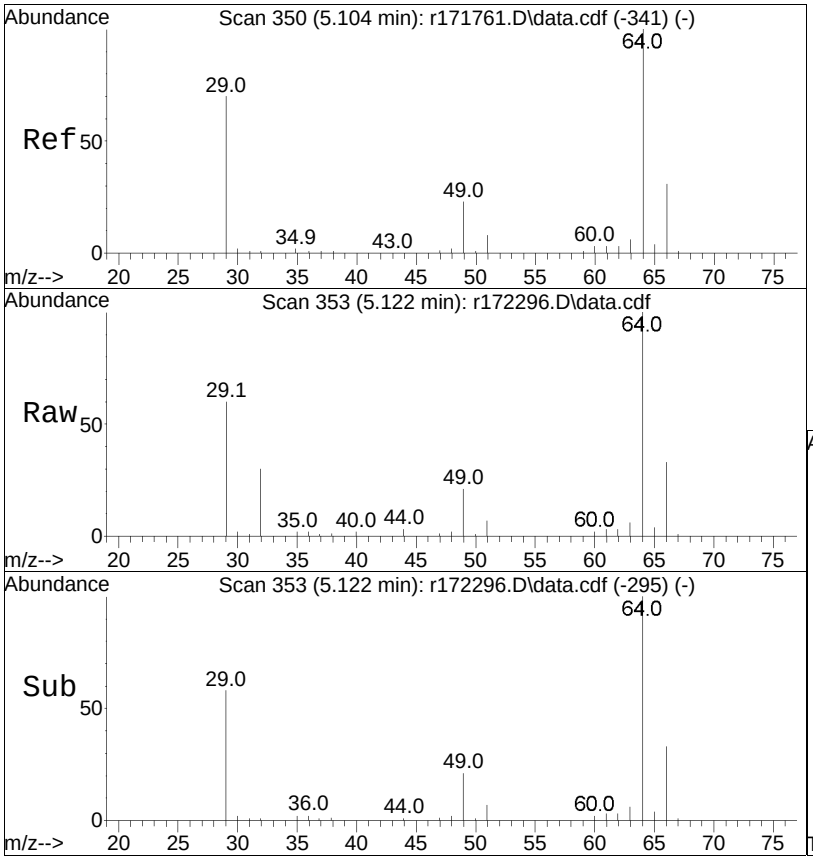


#13
bromomethane
Concen: 9.76 ppbV
RT: 4.906 min Scan# 317
Delta R.T. 0.018 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 94 Resp: 128436

Ion	Ratio	Lower	Upper
94	100		
96	94.9	75.6	113.4

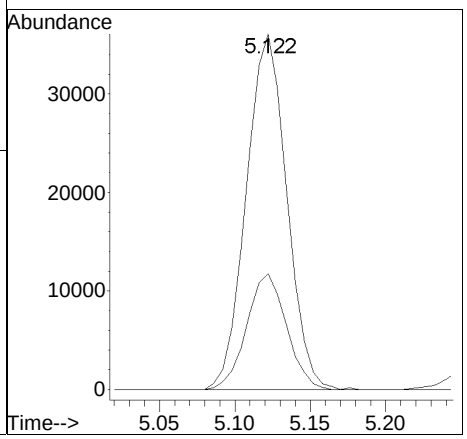


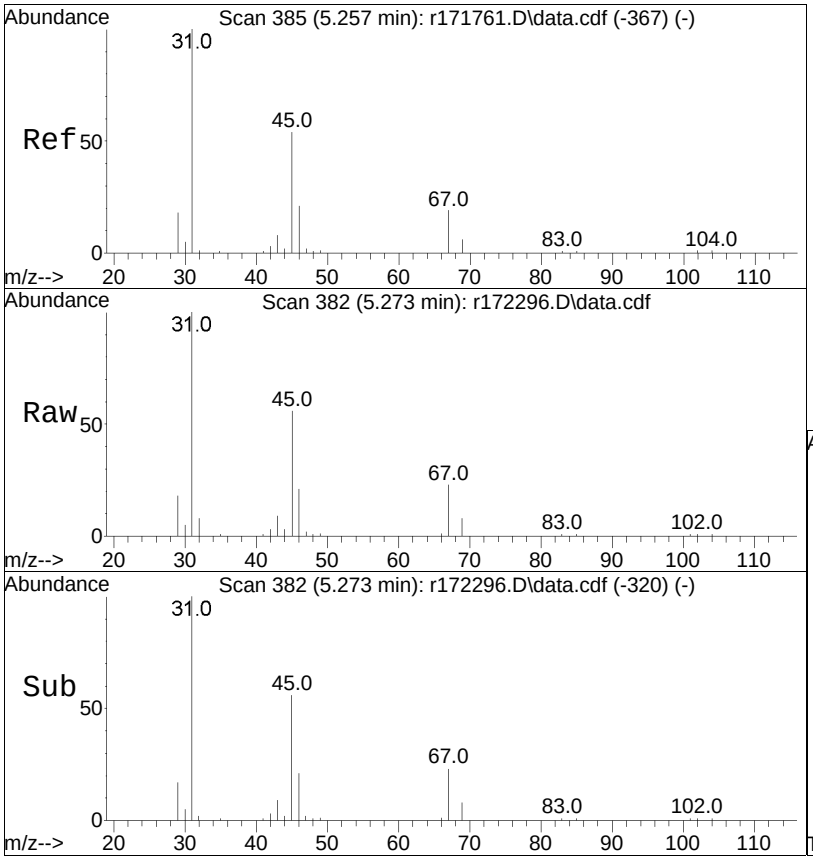


#14
chloroethane
Concen: 9.07 ppbV
RT: 5.122 min Scan# 353
Delta R.T. 0.018 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 64 Resp: 67179

Ion	Ratio	Lower	Upper
64	100		
66	32.5	25.0	37.6

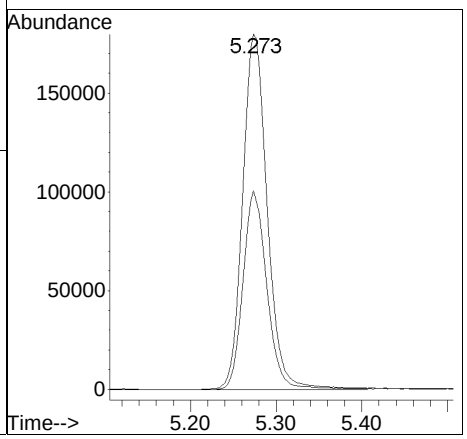


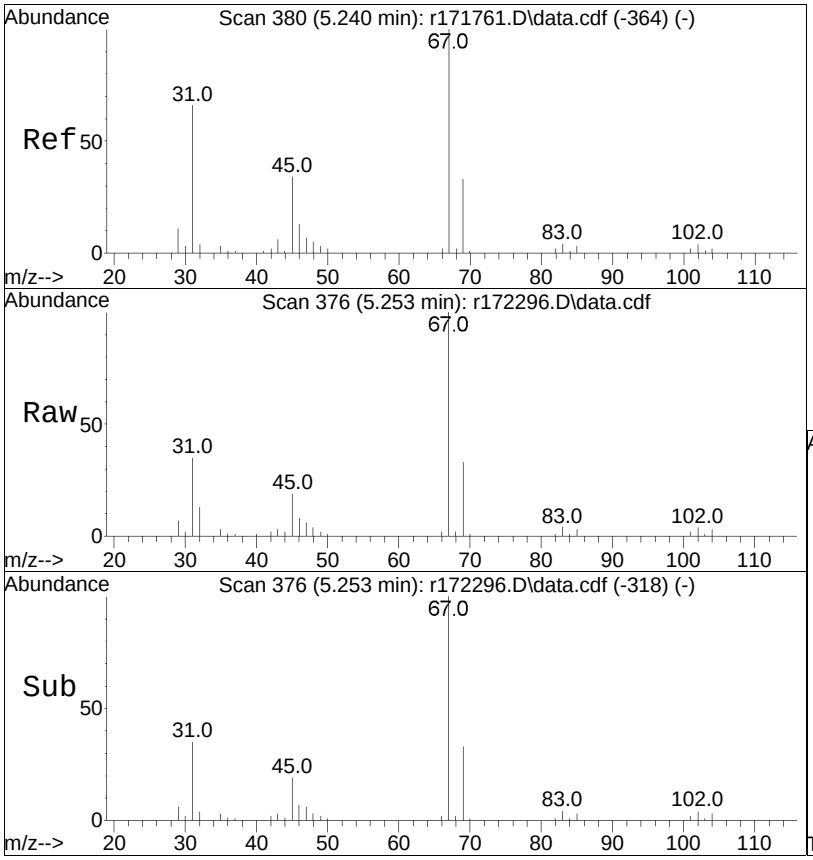


#15
ethanol
Concen: 45.31 ppbV
RT: 5.273 min Scan# 382
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 31 Resp: 391853

Ion	Ratio	Lower	Upper
31	100		
45	56.0	42.9	64.3

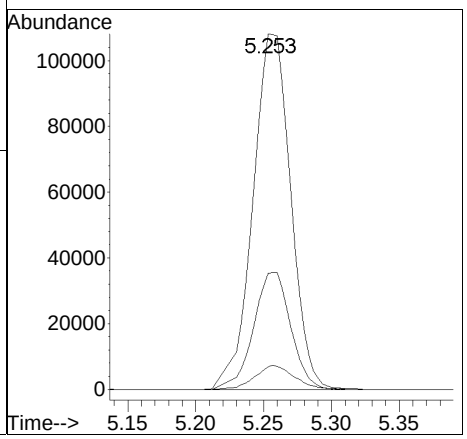


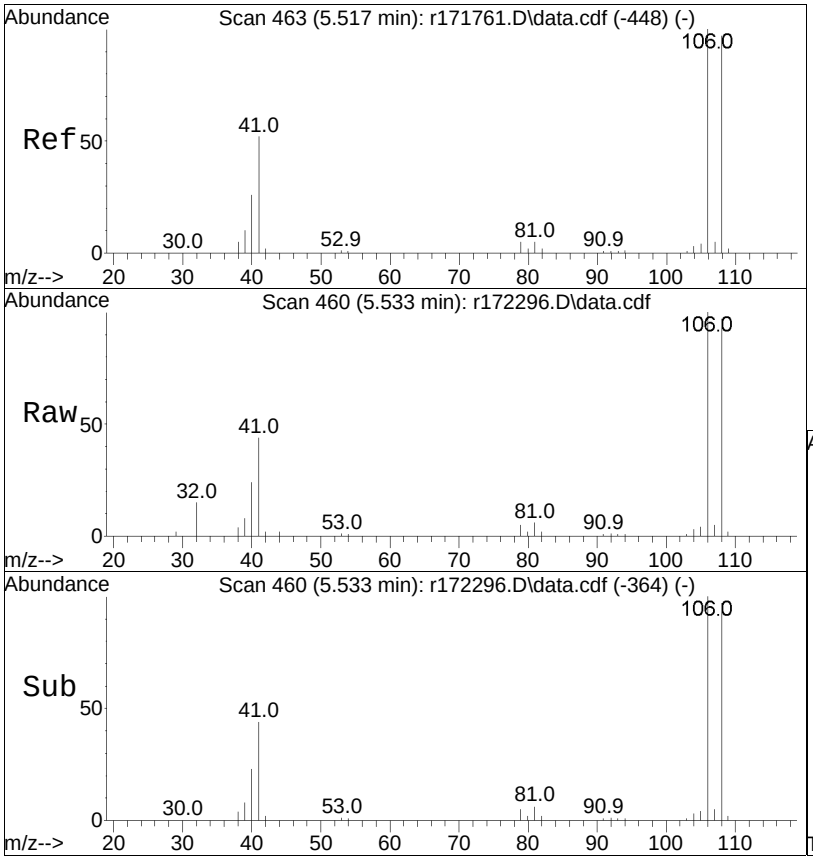


#16
dichlorofluoromethane
Concen: 10.45 ppbV
RT: 5.253 min Scan# 376
Delta R.T. 0.013 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 67 Resp: 242706

Ion	Ratio	Lower	Upper
67	100		
69	32.7	26.6	40.0
47	6.4	5.8	8.6

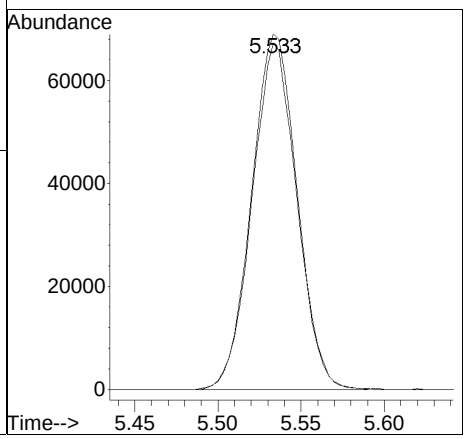


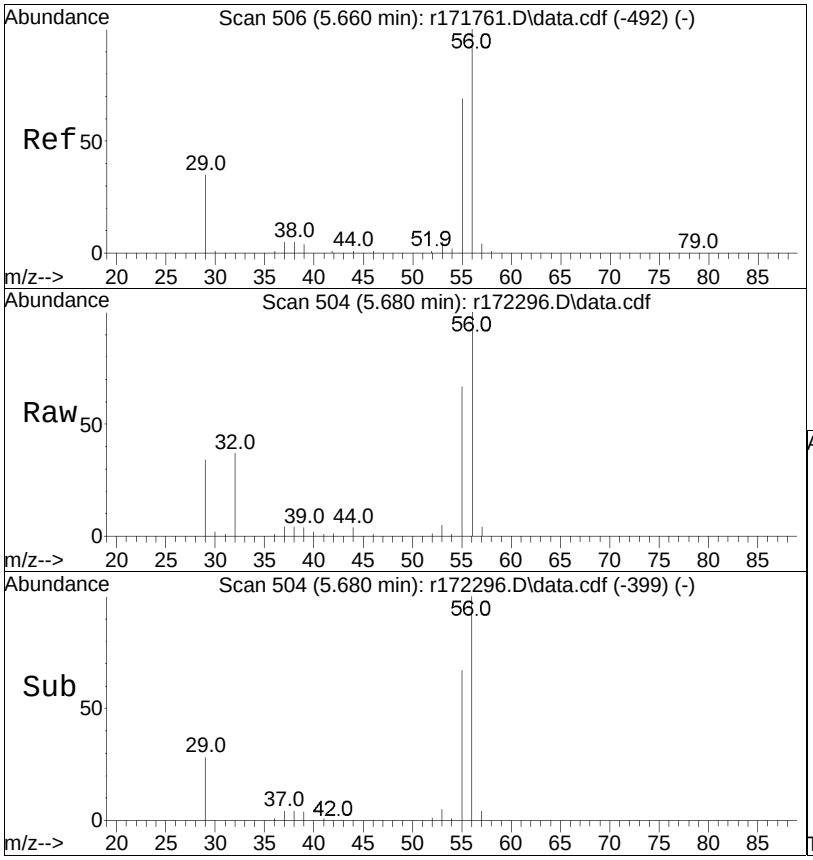


#17
vinyl bromide
Concen: 9.87 ppbV
RT: 5.533 min Scan# 460
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:106 Resp: 131375

Ion	Ratio	Lower	Upper
106	100		
108	97.4	77.9	116.9

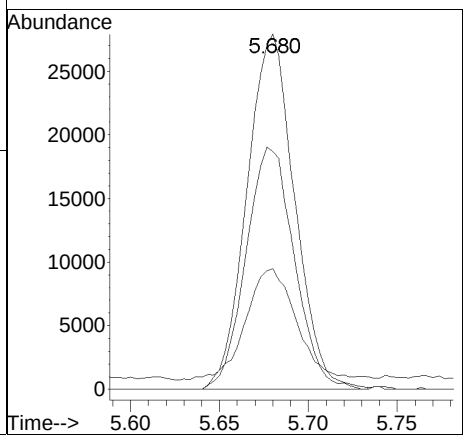


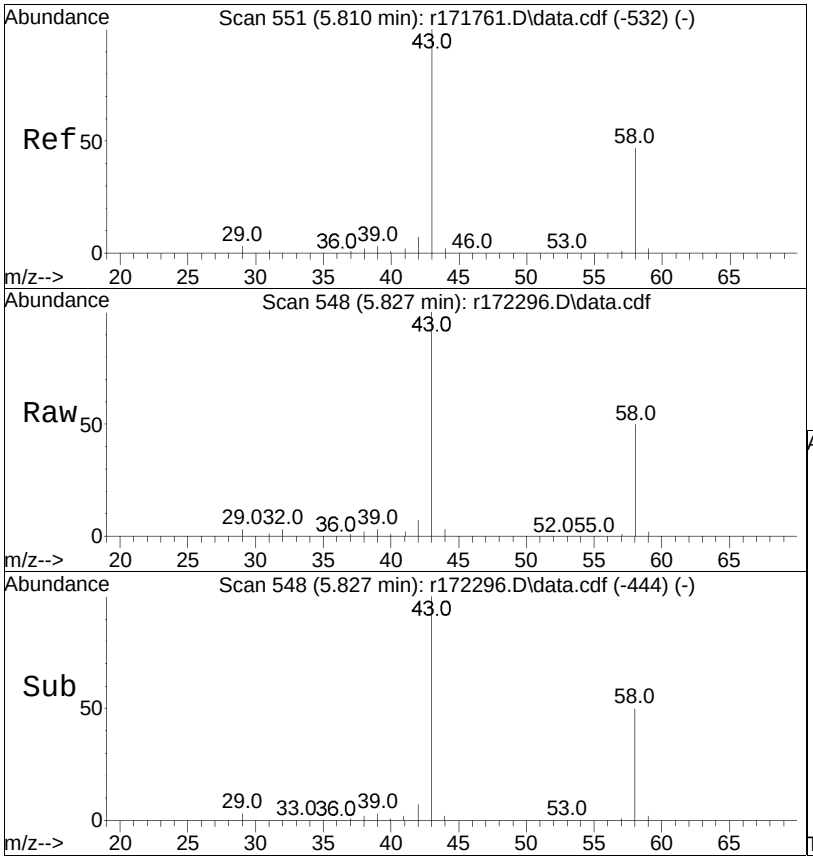


#18
acrolein
Concen: 8.36 ppbV
RT: 5.680 min Scan# 504
Delta R.T. 0.020 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 56 Resp: 52170

Ion	Ratio	Lower	Upper
56	100		
55	66.9	55.2	82.8
29	34.0	30.9	46.3

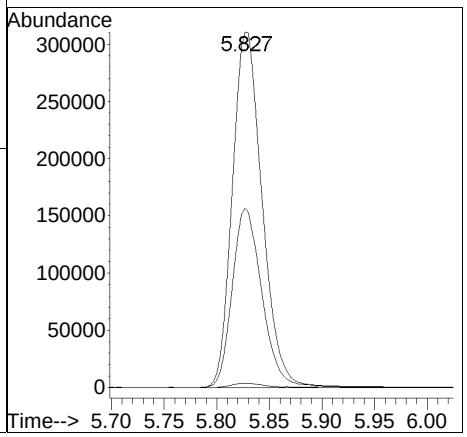


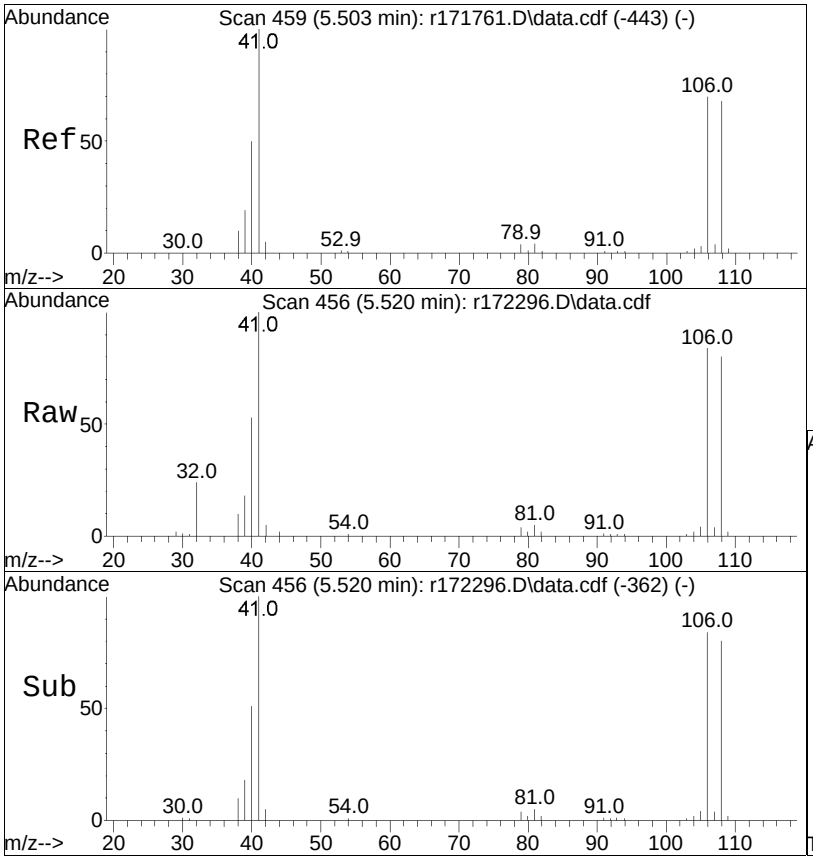


#19
acetone
Concen: 37.71 ppbV
RT: 5.827 min Scan# 548
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 43 Resp: 611318

Ion	Ratio	Lower	Upper
43	100		
58	50.5	37.4	56.0
57	1.2	0.9	1.3

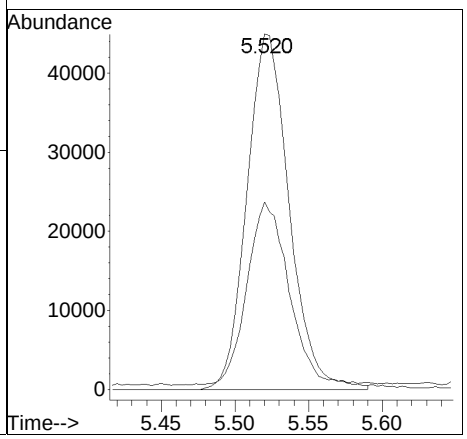


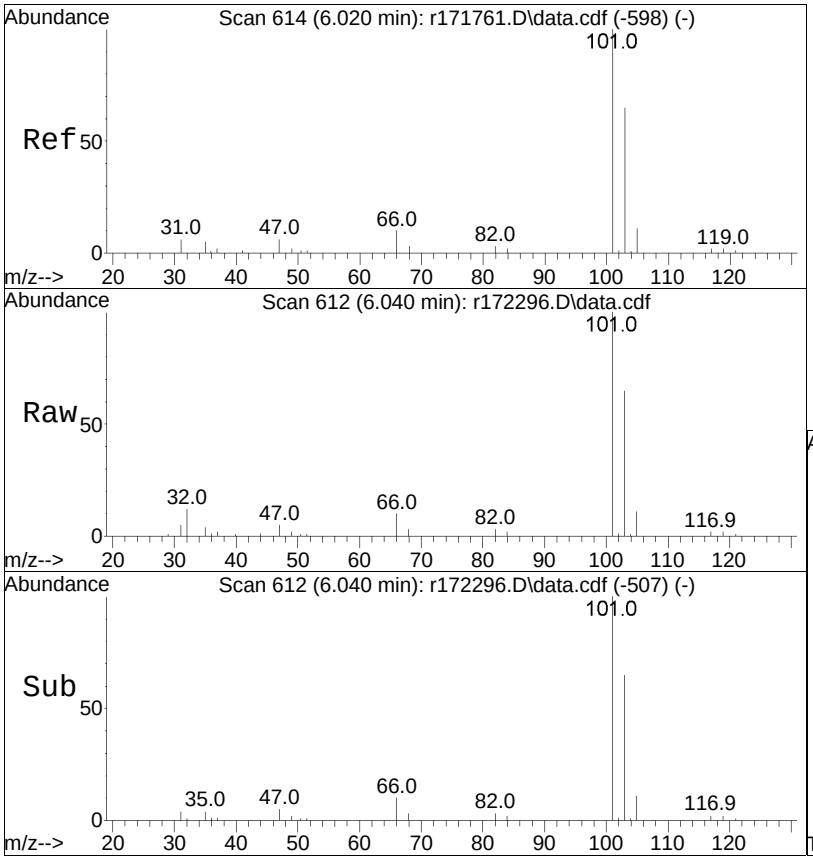


#20
acetonitrile
Concen: 8.08 ppbV
RT: 5.520 min Scan# 456
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 41 Resp: 89588

Ion	Ratio	Lower	Upper
41	100		
40	52.7	40.6	61.0

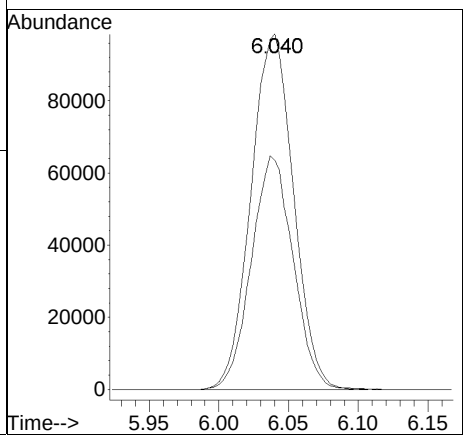


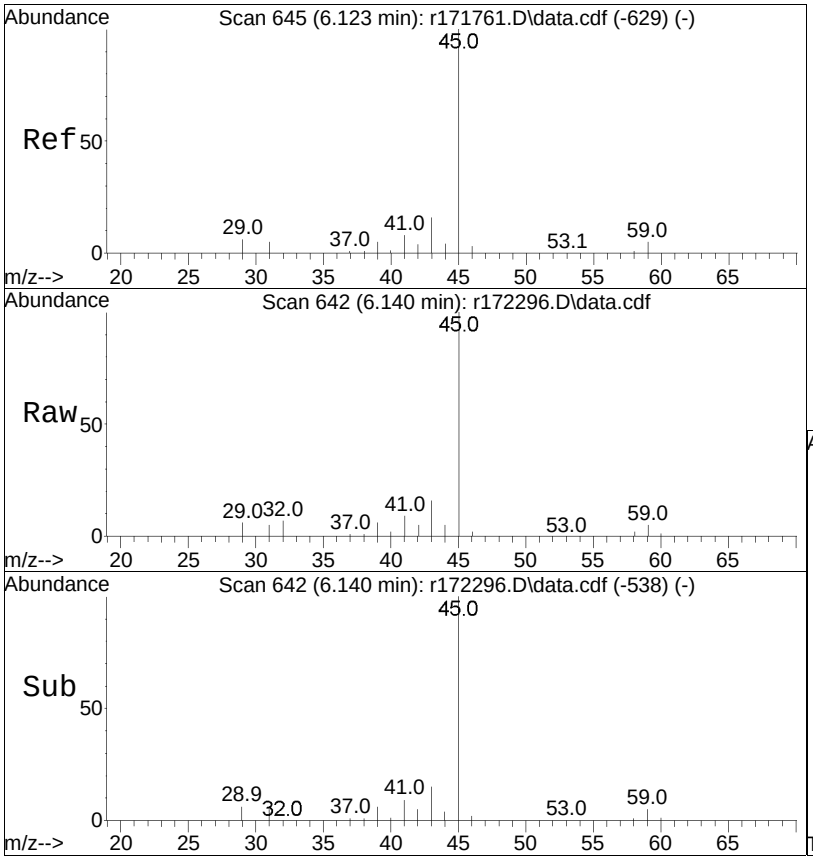


#21
trichlorofluoromethane
Concen: 10.00 ppbV
RT: 6.040 min Scan# 612
Delta R.T. 0.020 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:101 Resp: 209193

Ion	Ratio	Lower	Upper
101	100		
103	64.5	51.9	77.9

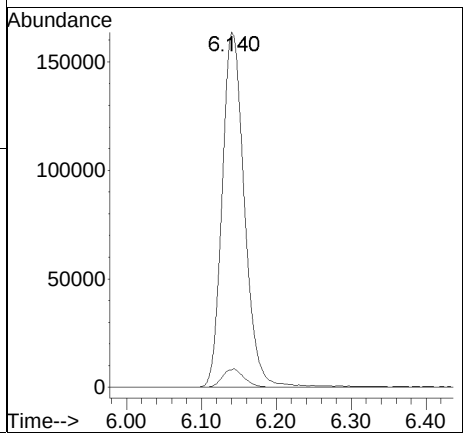


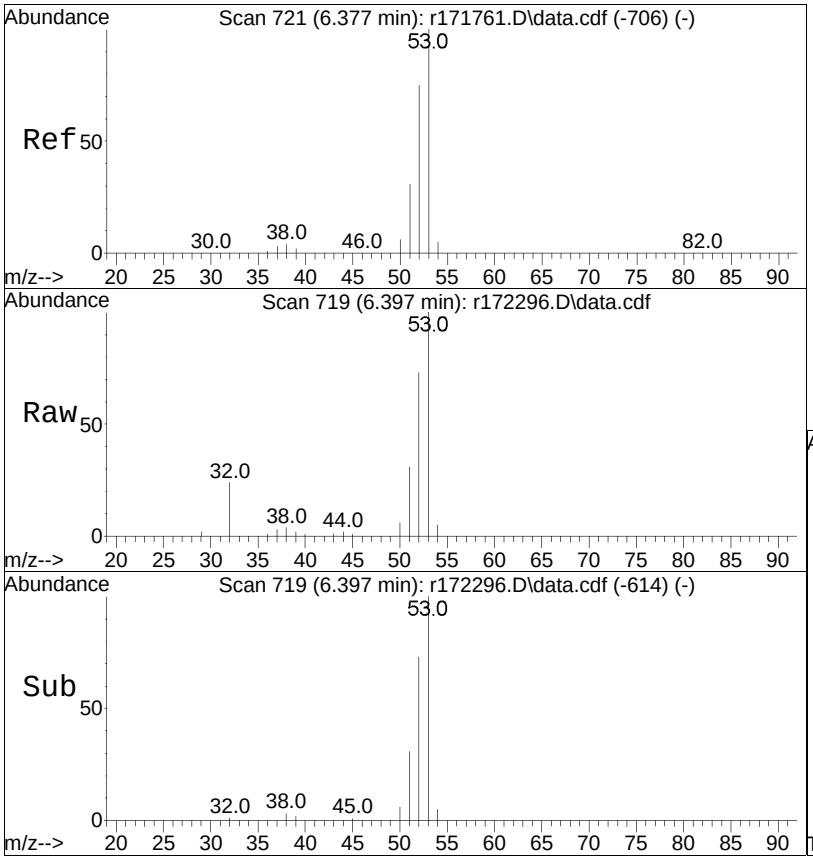


#22
isopropyl alcohol
Concen: 17.42 ppbV m
RT: 6.140 min Scan# 642
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 45 Resp: 340648

Ion	Ratio	Lower	Upper
45	100		
59	4.9	3.9	5.9

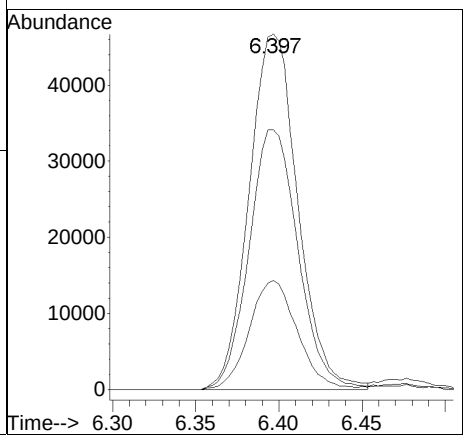


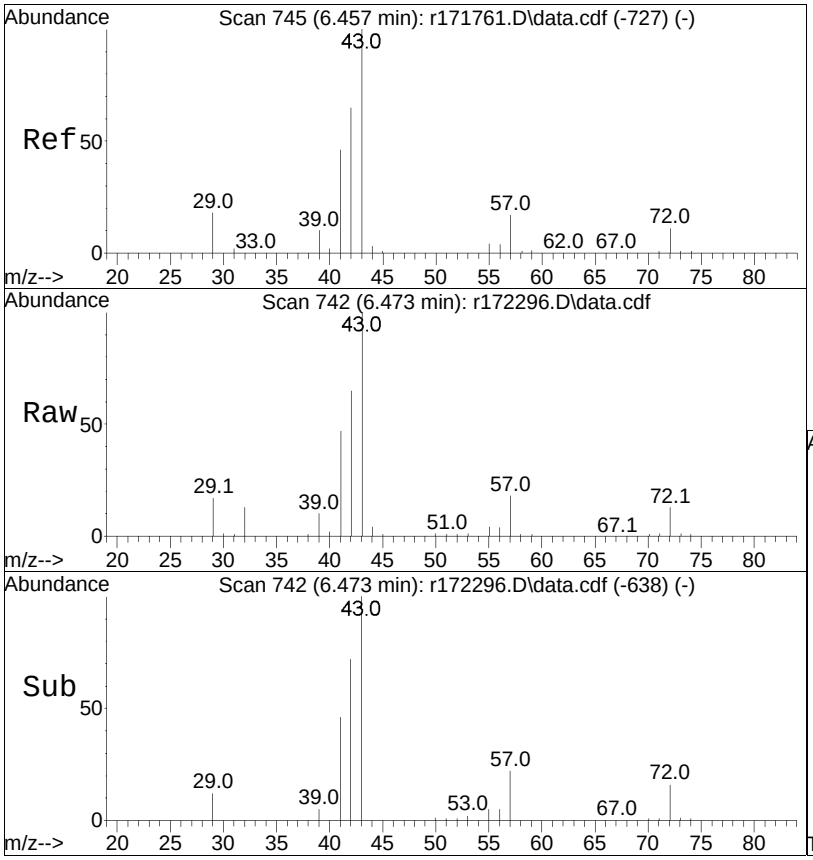


#23
acrylonitrile
Concen: 8.50 ppbV
RT: 6.397 min Scan# 719
Delta R.T. 0.020 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 53 Resp: 95327

Ion	Ratio	Lower	Upper
53	100		
52	73.0	60.3	90.5
51	30.7	25.1	37.7

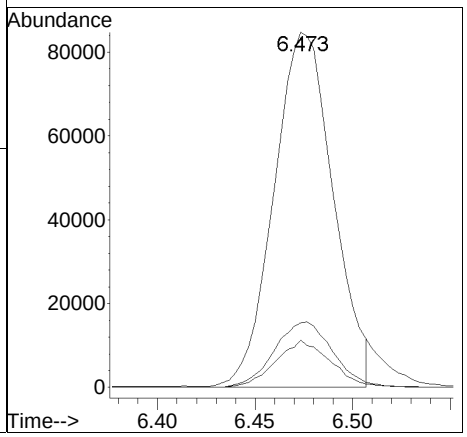


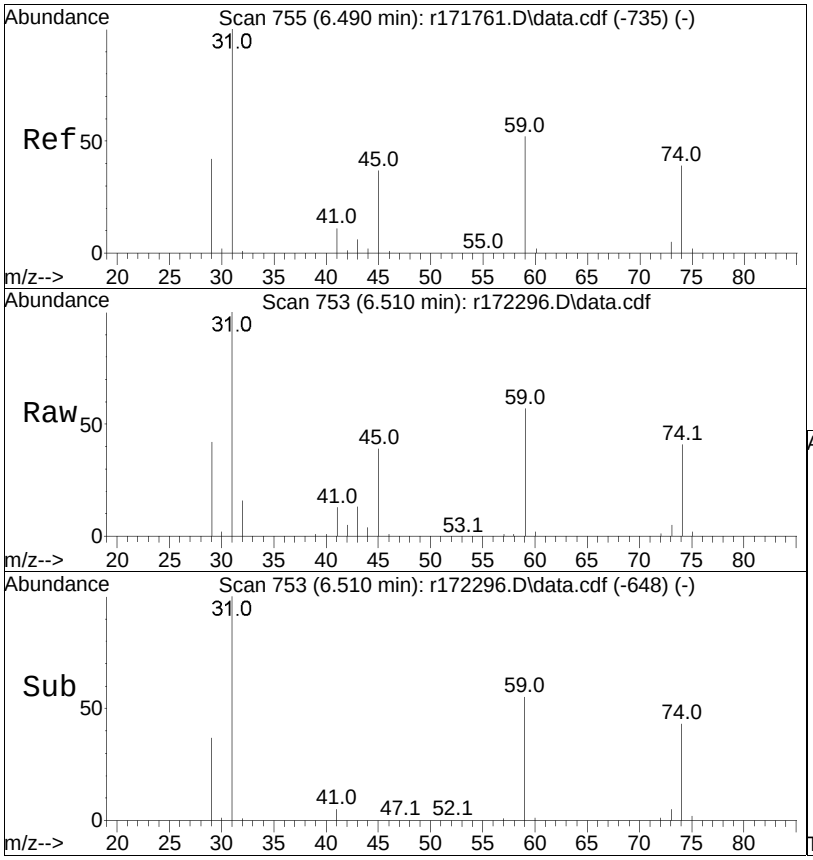


#24
pentane
Concen: 7.84 ppbV m
RT: 6.473 min Scan# 742
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 43 Resp: 178857

Ion	Ratio	Lower	Upper
43	100		
57	18.2	13.6	20.4
72	13.3	9.1	13.7

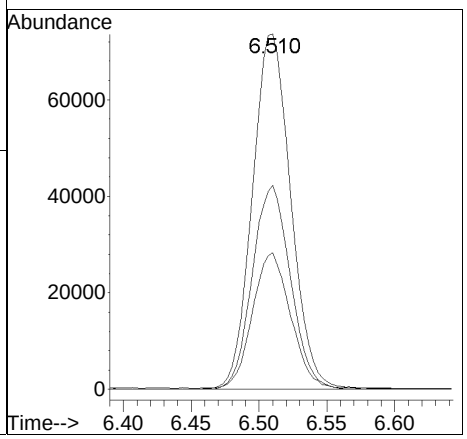


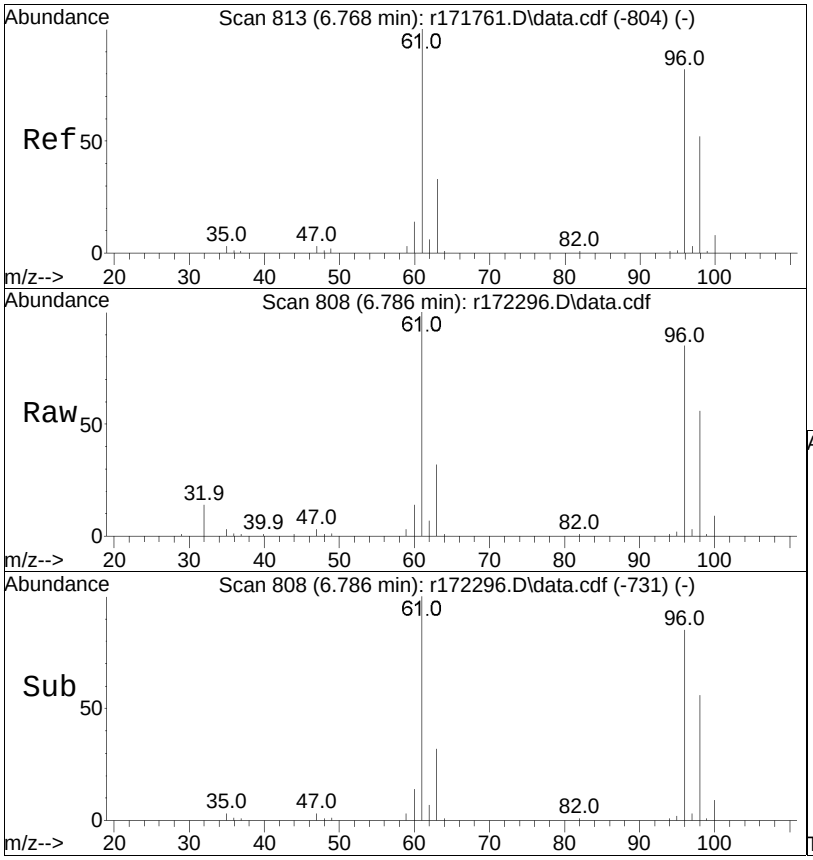


#25
ethyl ether
Concen: 7.77 ppbV
RT: 6.510 min Scan# 753
Delta R.T. 0.020 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 31 Resp: 145291

Ion	Ratio	Lower	Upper
31	100		
59	57.4	41.6	62.4
45	38.5	29.6	44.4

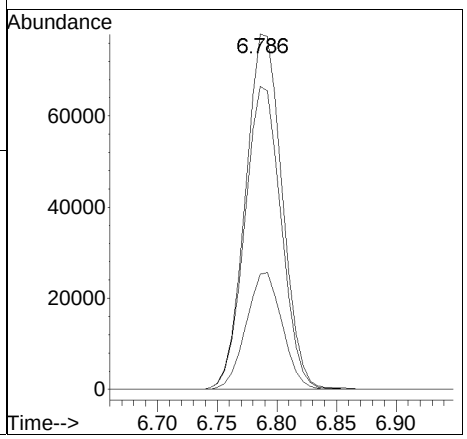


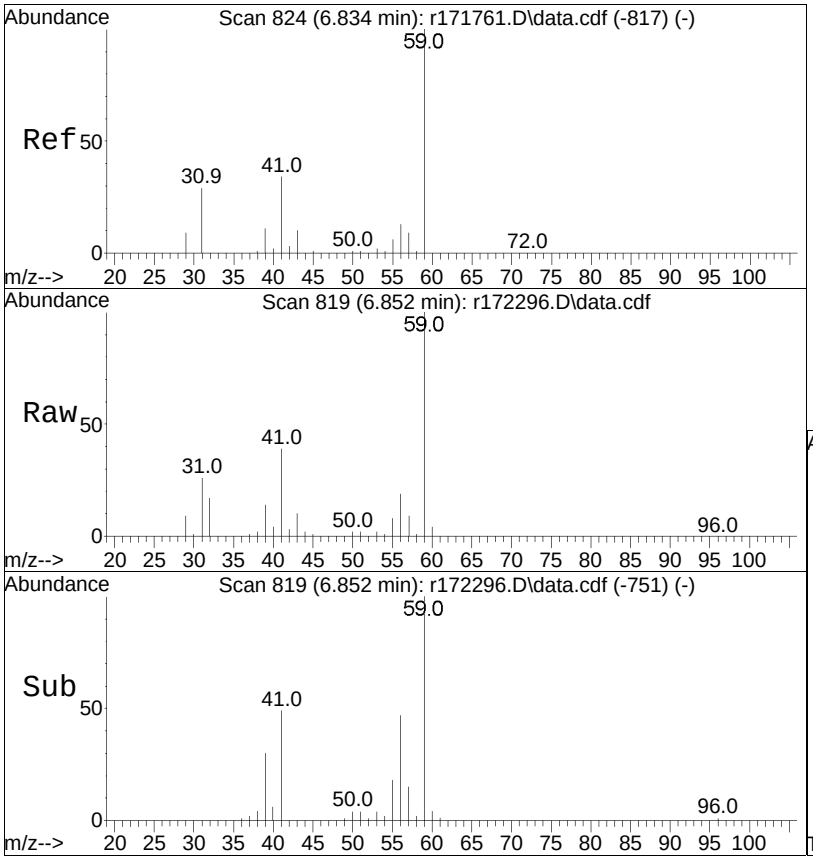


#26
1,1-dichloroethene
Concen: 9.42 ppbV
RT: 6.786 min Scan# 808
Delta R.T. 0.018 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 61 Resp: 167052

Ion	Ratio	Lower	Upper
61	100		
96	85.3	65.3	97.9
63	32.4	26.0	39.0

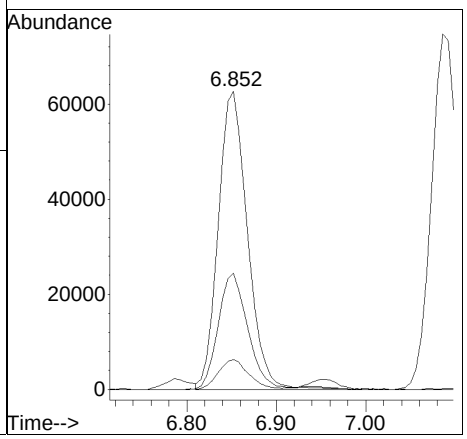


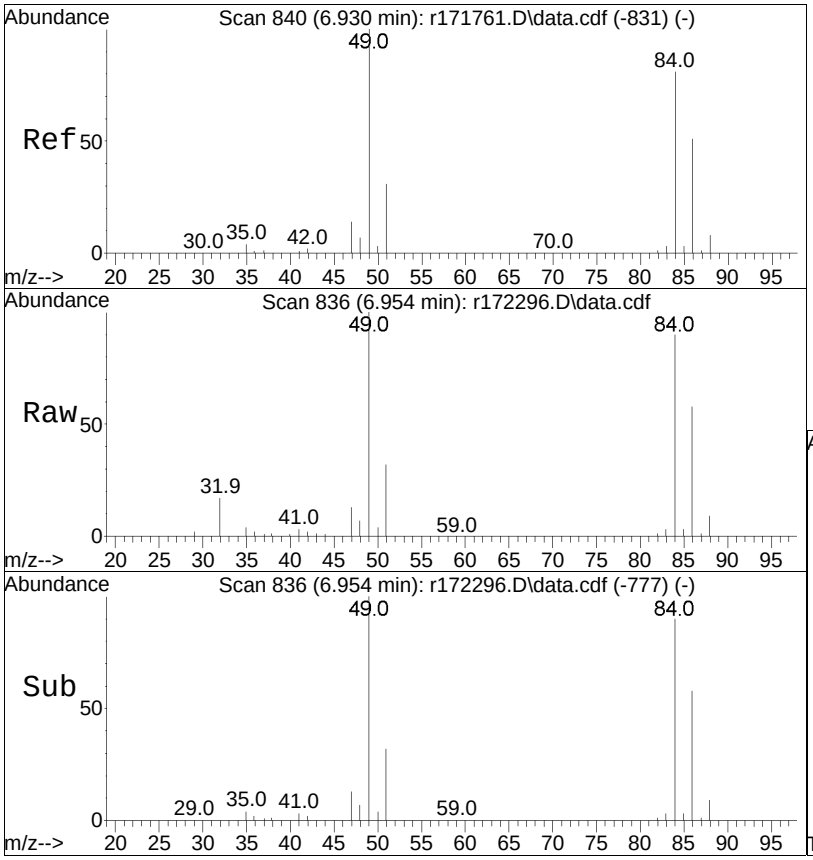


#27
tertiary butyl alcohol
Concen: 7.86 ppbV
RT: 6.852 min Scan# 819
Delta R.T. 0.018 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 59 Resp: 141847

Ion	Ratio	Lower	Upper
59	100		
41	38.9	27.1	40.7
43	10.0	8.0	12.0

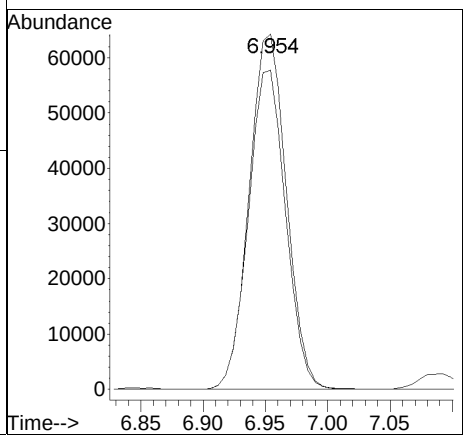


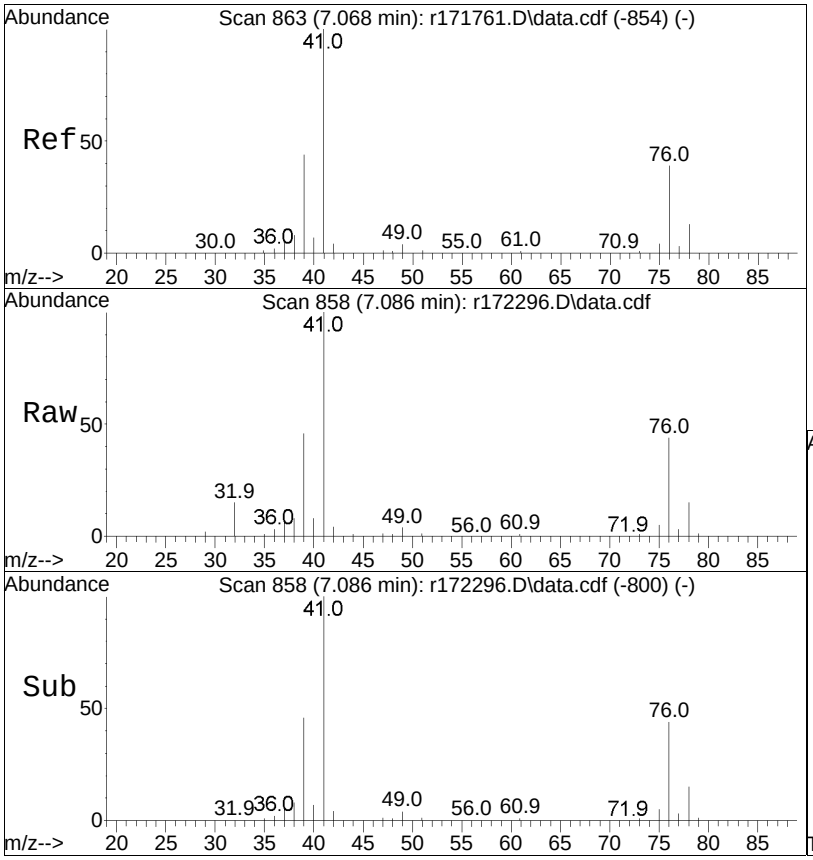


#28
methylene chloride
Concen: 9.00 ppbV
RT: 6.954 min Scan# 836
Delta R.T. 0.024 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 49 Resp: 133956

Ion	Ratio	Lower	Upper
49	100		
84	89.8	64.8	97.2

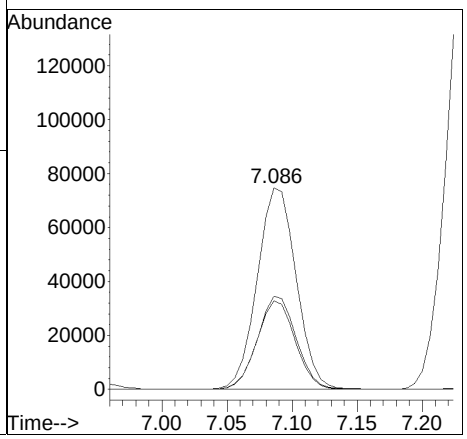


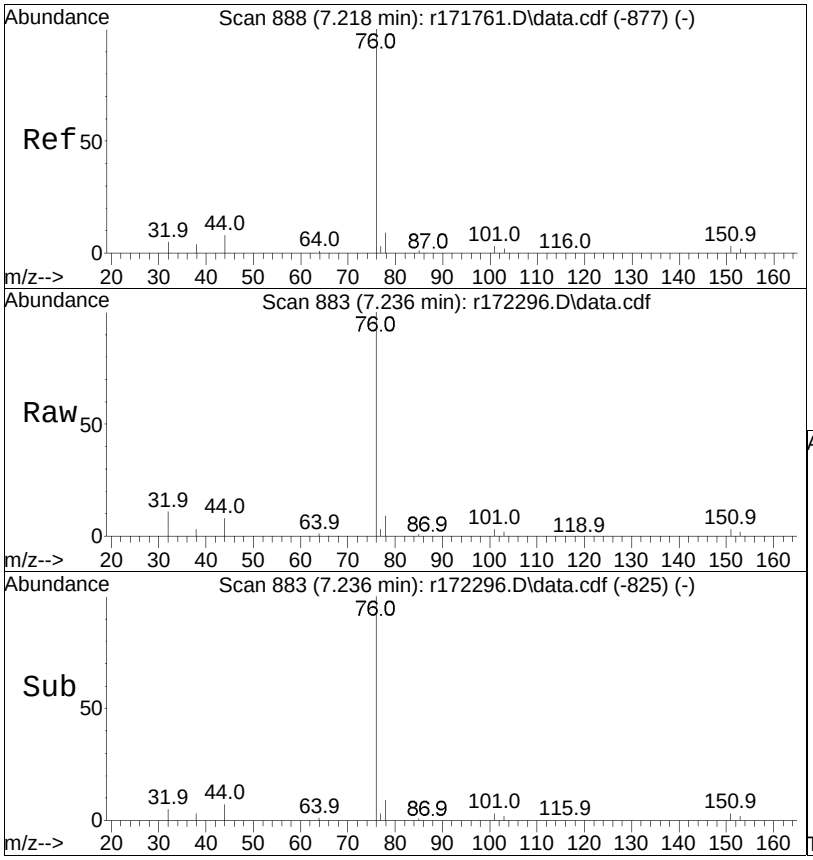


#29
3-chloropropene
Concen: 9.50 ppbV
RT: 7.086 min Scan# 858
Delta R.T. 0.018 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 41 Resp: 155837

Ion	Ratio	Lower	Upper
41	100		
39	46.3	35.3	52.9
76	44.0	31.1	46.7

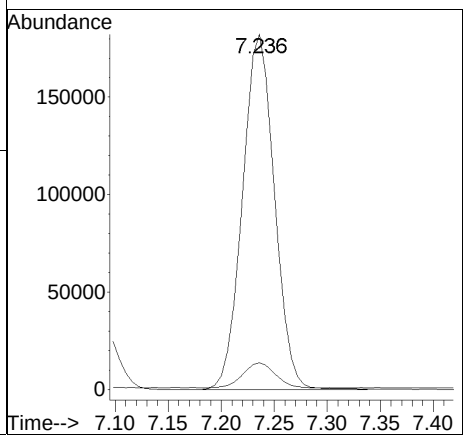


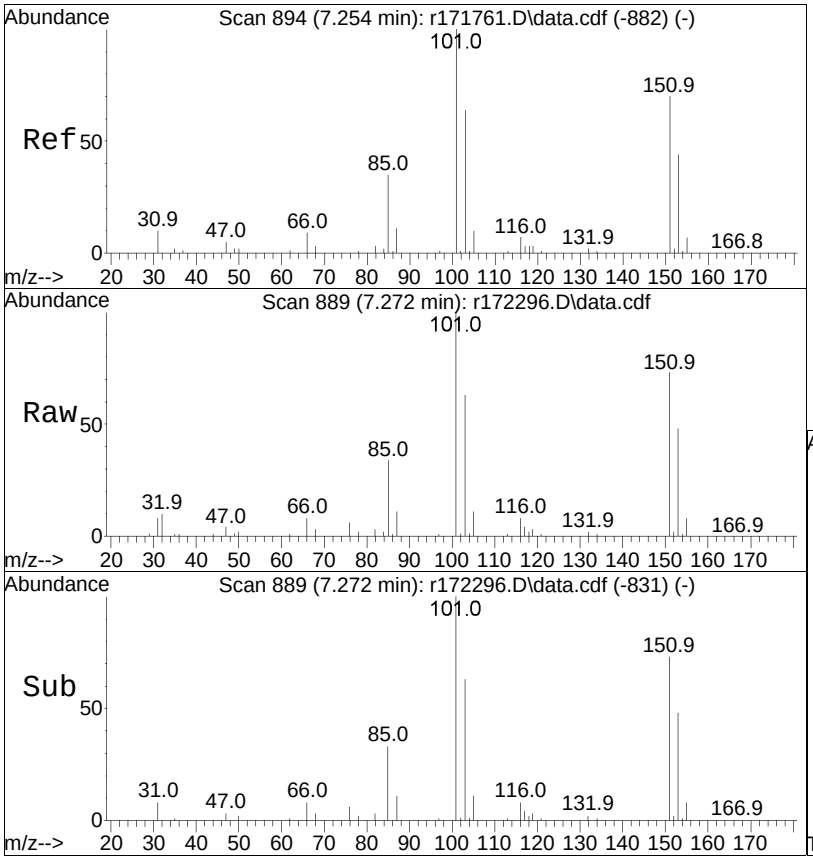


#30
carbon disulfide
Concen: 9.26 ppbV
RT: 7.236 min Scan# 883
Delta R.T. 0.018 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 76 Resp: 382045

Ion	Ratio	Lower	Upper
76	100		
44	7.5	7.5	11.3

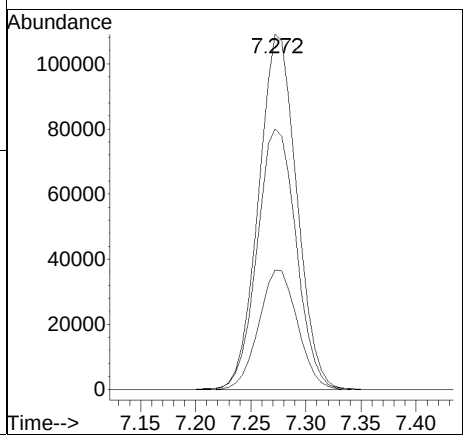


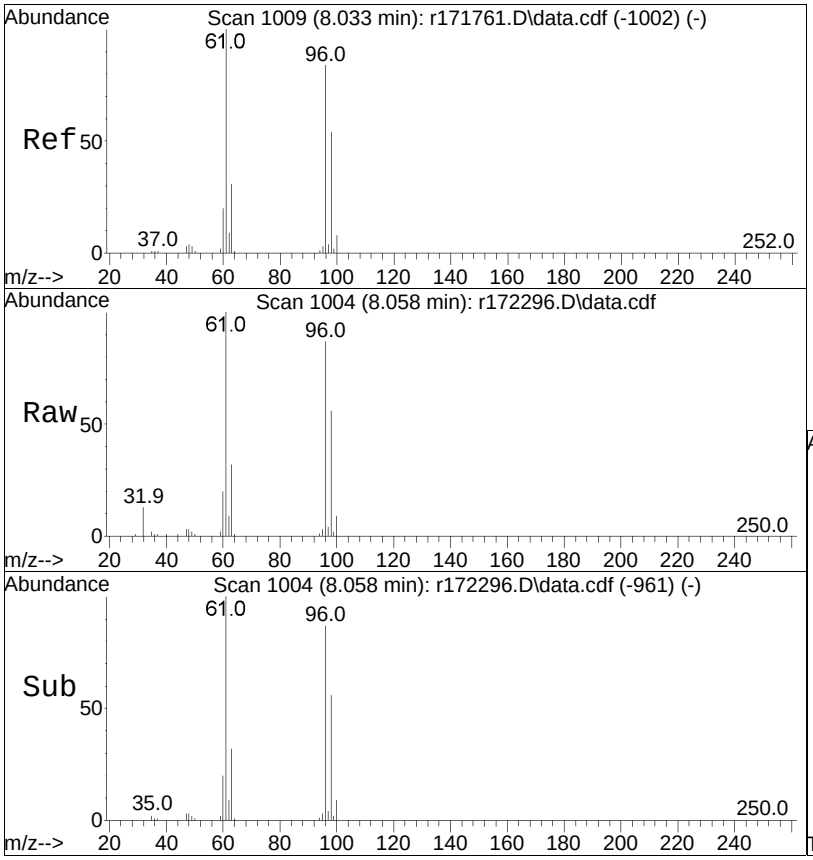


#31
Freon 113
Concen: 10.06 ppbV
RT: 7.272 min Scan# 889
Delta R.T. 0.018 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:101 Resp: 262710

Ion	Ratio	Lower	Upper
101	100		
85	33.6	28.3	42.5
151	73.3	56.0	84.0

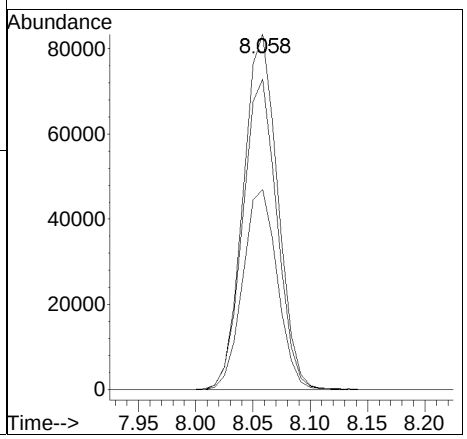


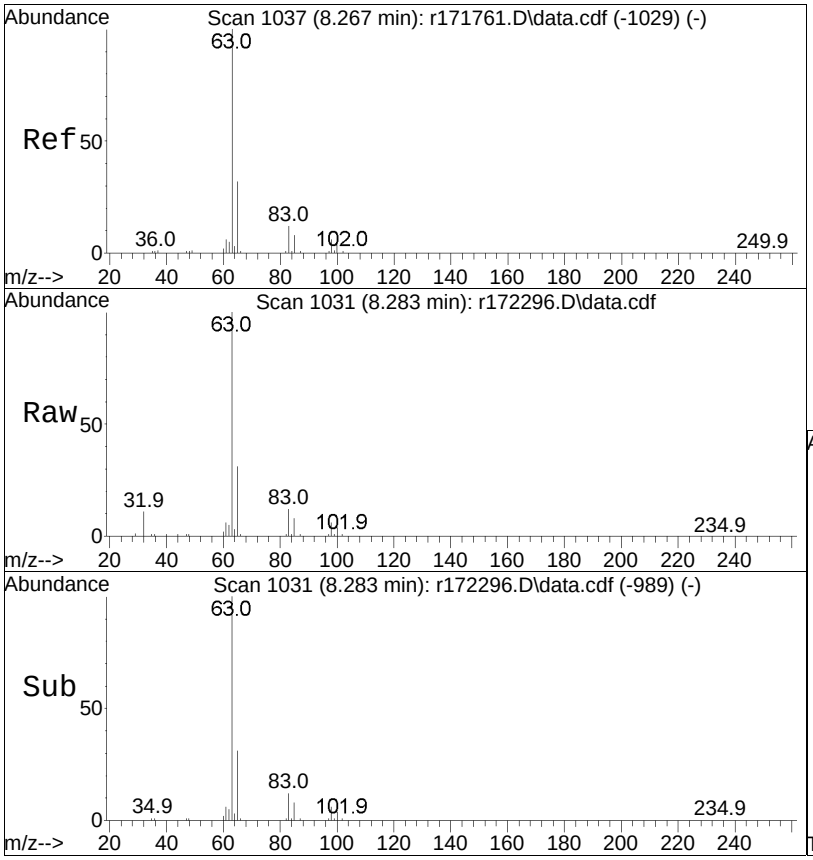


#32
trans-1,2-dichloroethene
Concen: 9.27 ppbV
RT: 8.058 min Scan# 1004
Delta R.T. 0.025 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 61 Resp: 174557

Ion	Ratio	Lower	Upper
61	100		
96	87.3	67.3	100.9
98	56.3	43.3	64.9

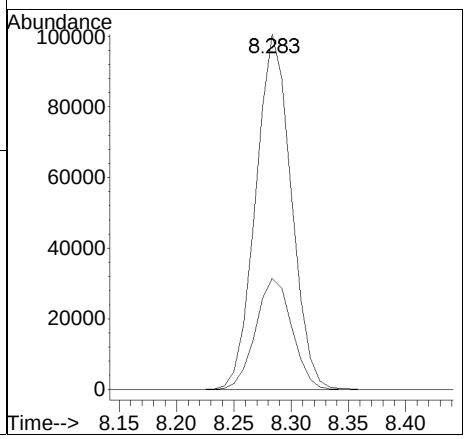


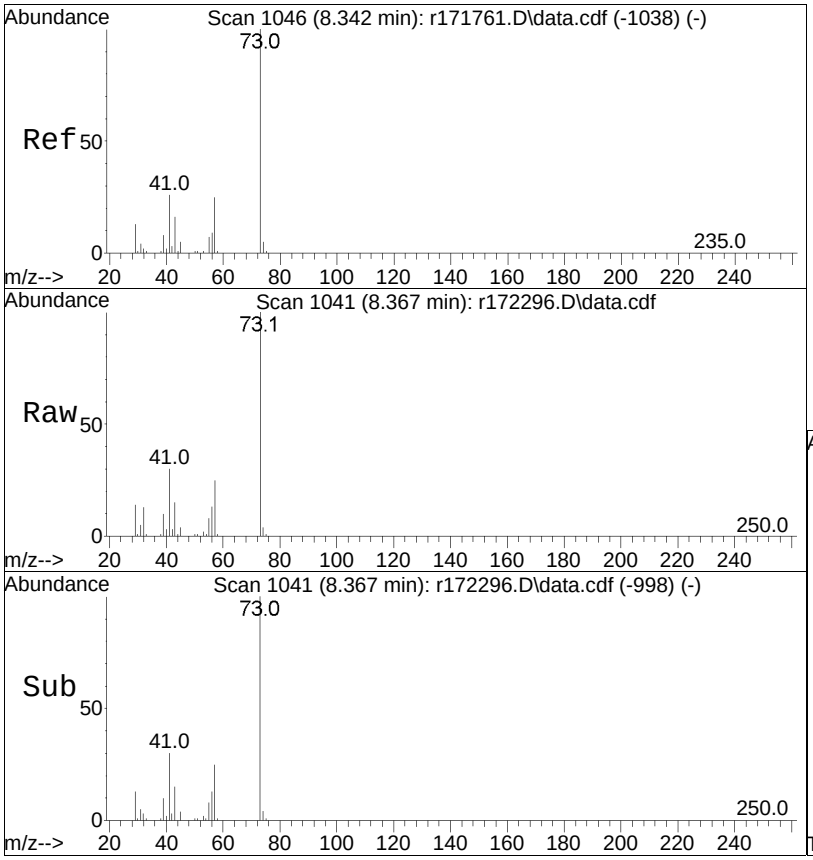


#33
1,1-dichloroethane
Concen: 8.85 ppbV
RT: 8.283 min Scan# 1031
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 63 Resp: 216356

Ion	Ratio	Lower	Upper
63	100		
65	31.3	25.8	38.8

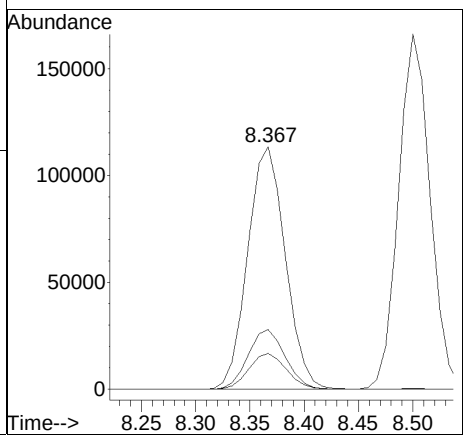


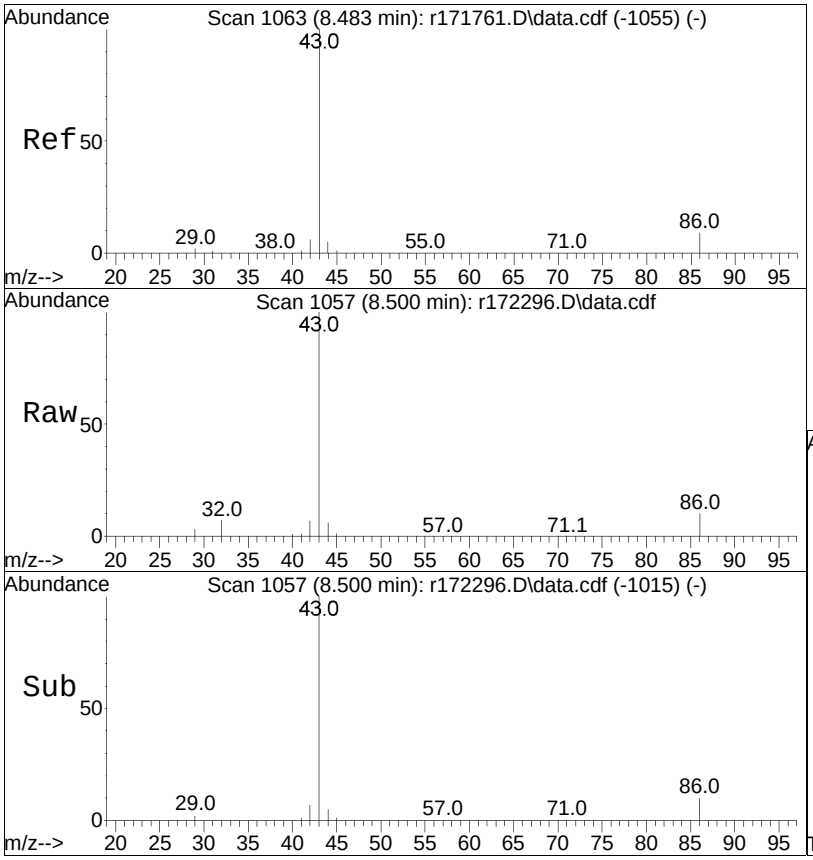


#34
MTBE
Concen: 9.05 ppbV
RT: 8.367 min Scan# 1041
Delta R.T. 0.025 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 73 Resp: 273551

Ion	Ratio	Lower	Upper
73	100		
57	24.7	19.7	29.5
43	14.9	12.7	19.1

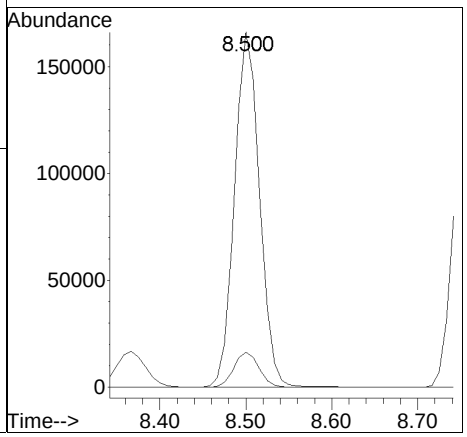


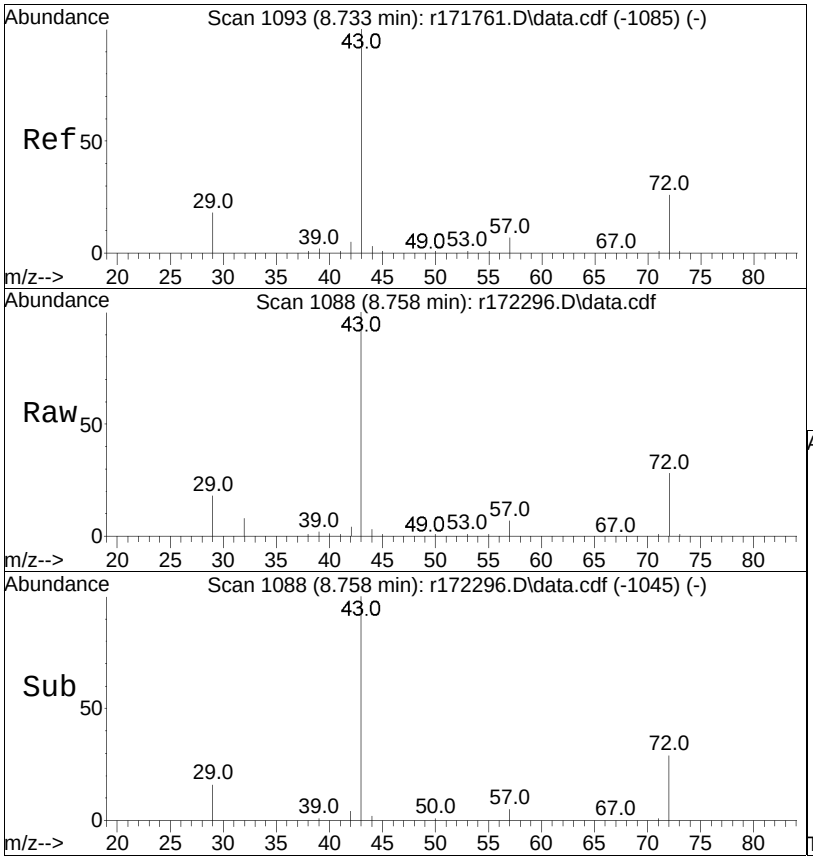


#35
vinyl acetate
Concen: 10.28 ppbV
RT: 8.500 min Scan# 1057
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 43 Resp: 336760

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.0	10.4

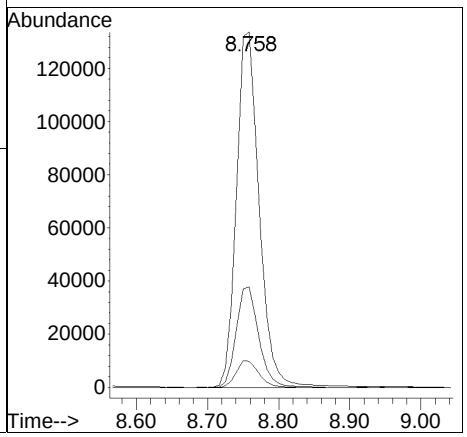


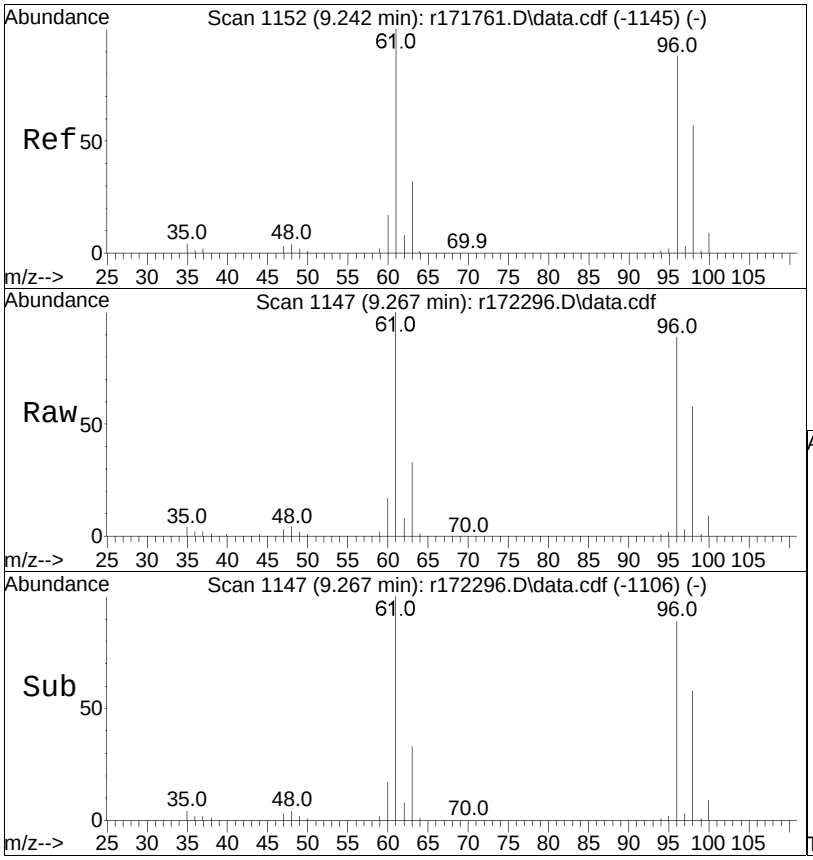


#36
2-butanone
Concen: 8.95 ppbV
RT: 8.758 min Scan# 1088
Delta R.T. 0.025 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 43 Resp: 298551

Ion	Ratio	Lower	Upper
43	100		
72	28.3	21.1	31.7
57	7.3	5.6	8.4

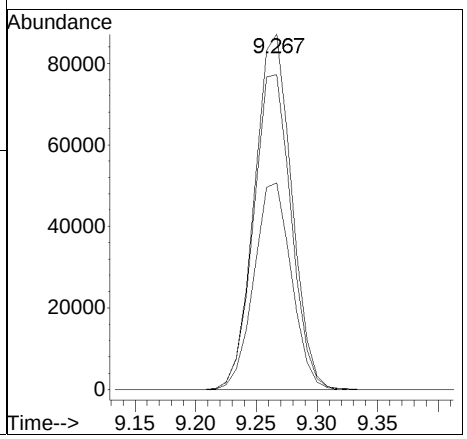


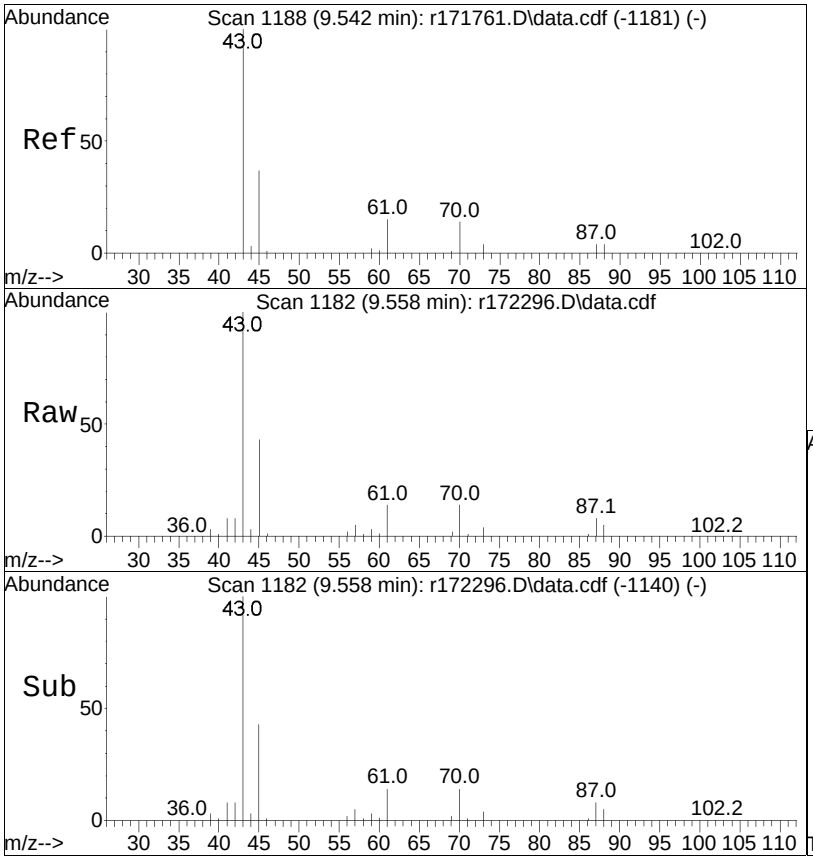


#37
cis-1,2-dichloroethene
Concen: 8.97 ppbV
RT: 9.267 min Scan# 1147
Delta R.T. 0.025 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 61 Resp: 185994

Ion	Ratio	Lower	Upper
61	100		
96	88.6	70.2	105.2
98	58.1	45.4	68.2

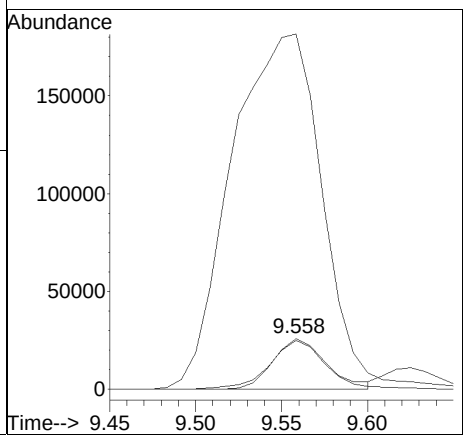


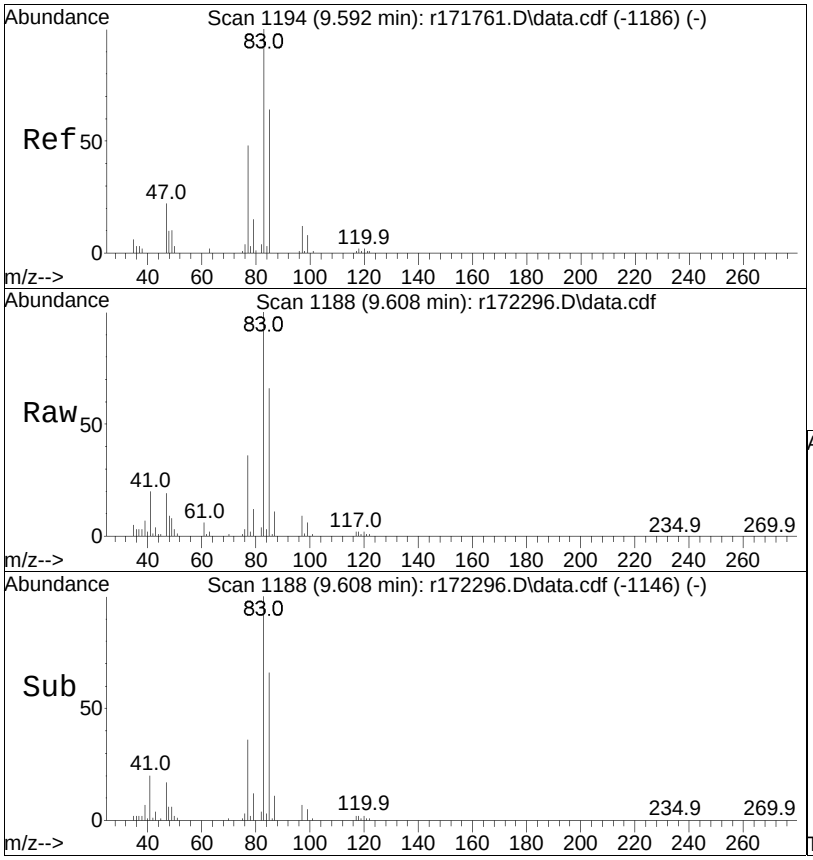


#38
Ethyl Acetate
Concen: 10.30 ppbV
RT: 9.558 min Scan# 1182
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 61 Resp: 56374

Ion	Ratio	Lower	Upper
61	100		
70	96.4	78.2	117.2
43	698.7	629.1	943.7

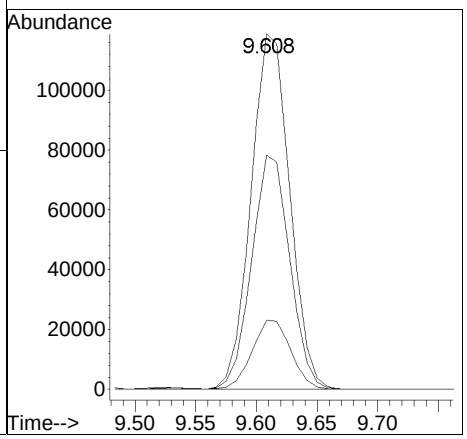


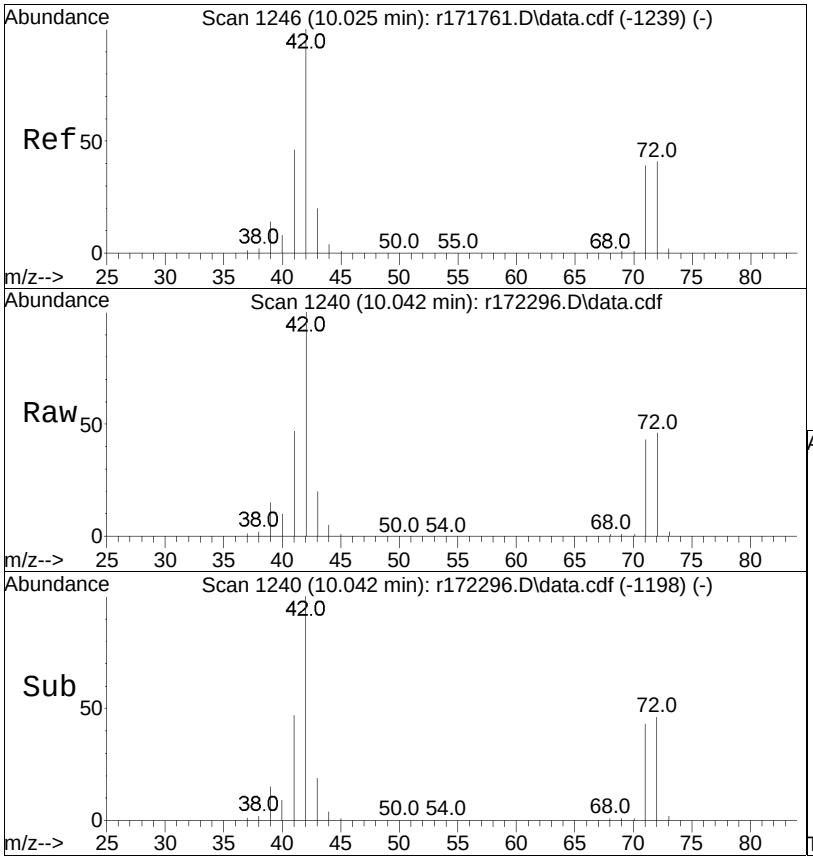


#39
chloroform
Concen: 10.12 ppbV
RT: 9.608 min Scan# 1188
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 83 Resp: 263995

Ion	Ratio	Lower	Upper
83	100		
85	65.9	51.8	77.6
47	19.5	18.1	27.1

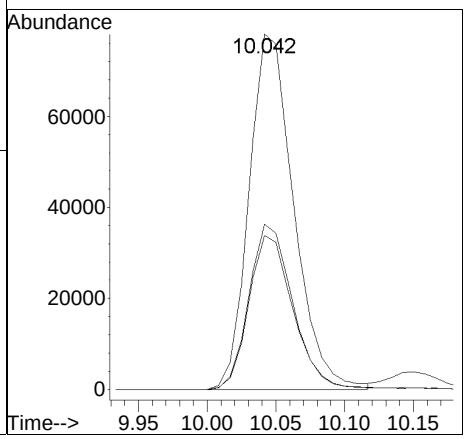


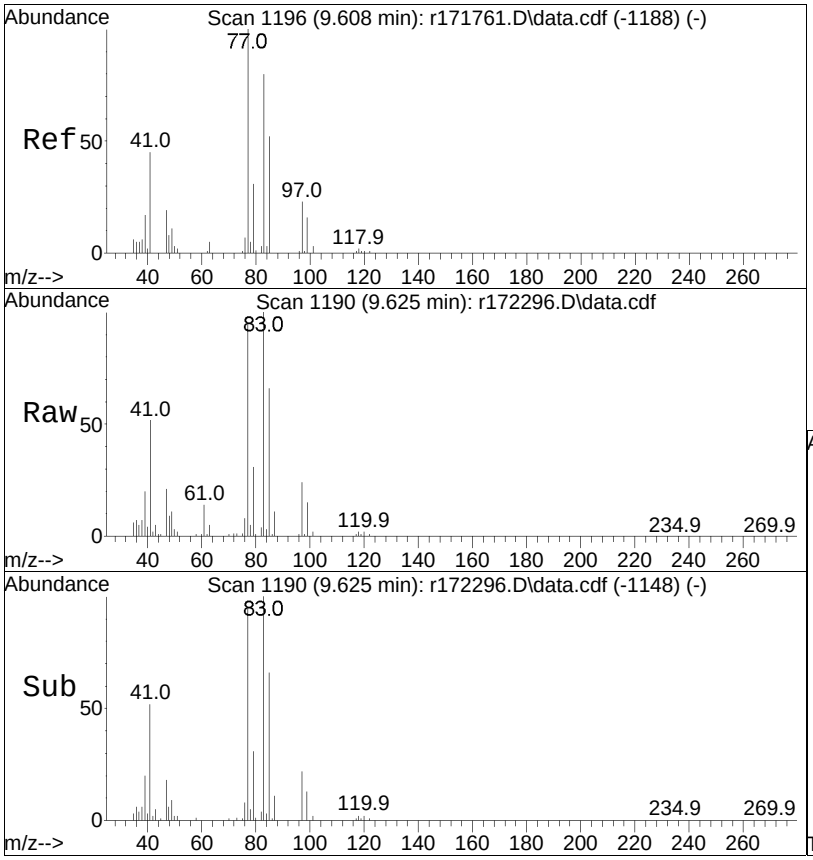


#40
Tetrahydrofuran
Concen: 9.24 ppbV
RT: 10.042 min Scan# 1240
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 42 Resp: 176415

Ion	Ratio	Lower	Upper
42	100		
71	43.3	31.2	46.8
72	46.5	33.0	49.4

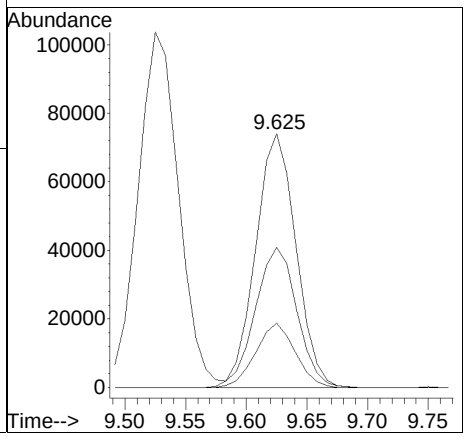


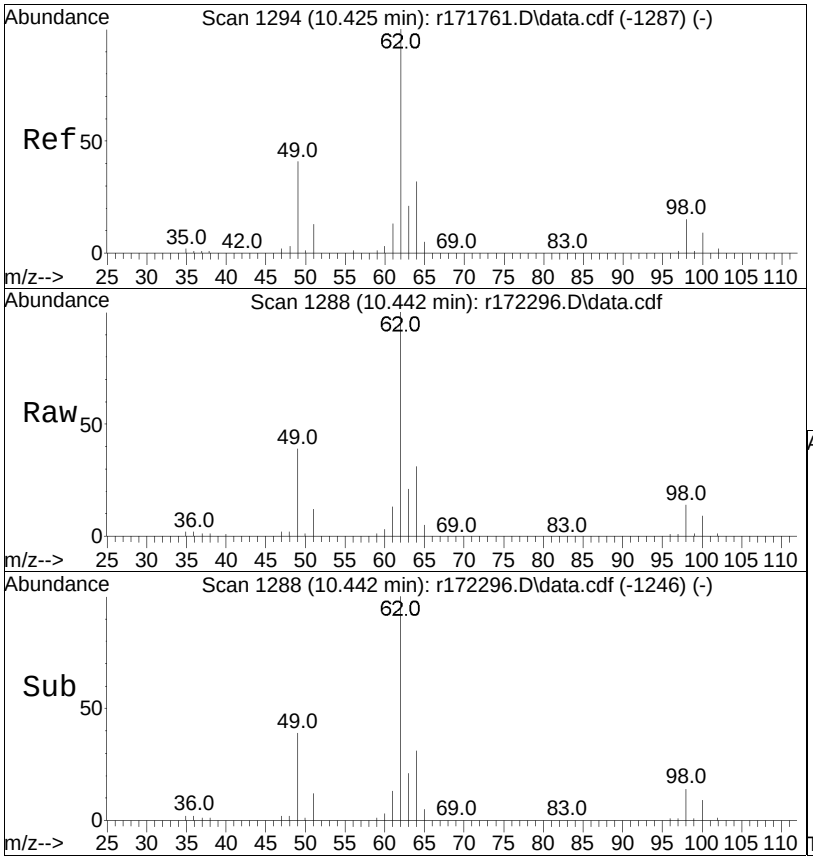


#41
2,2-dichloropropane
Concen: 9.03 ppbV
RT: 9.625 min Scan# 1190
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 77 Resp: 171254

Ion	Ratio	Lower	Upper
77	100		
41	55.2	48.2	72.4
97	25.3	18.3	27.5

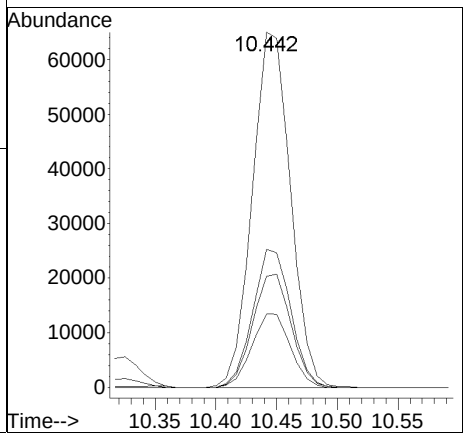


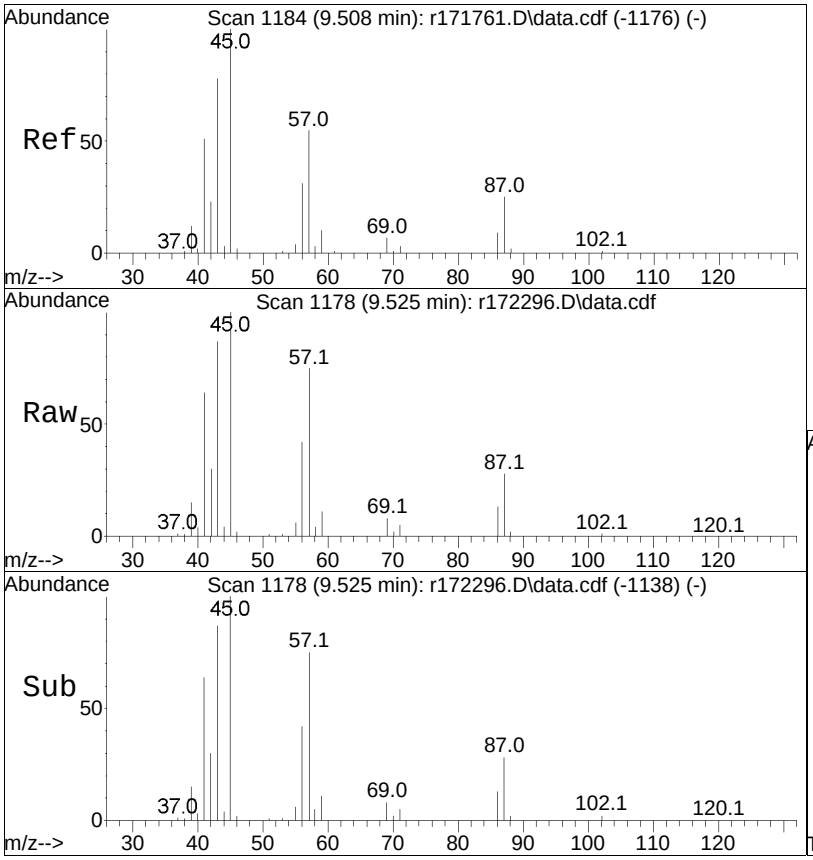


#42
1,2-dichloroethane
Concen: 9.61 ppbV
RT: 10.442 min Scan# 1288
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 62 Resp: 142048

Ion	Ratio	Lower	Upper
62	100		
64	31.3	25.8	38.8
49	38.9	33.0	49.4
63	20.7	16.9	25.3

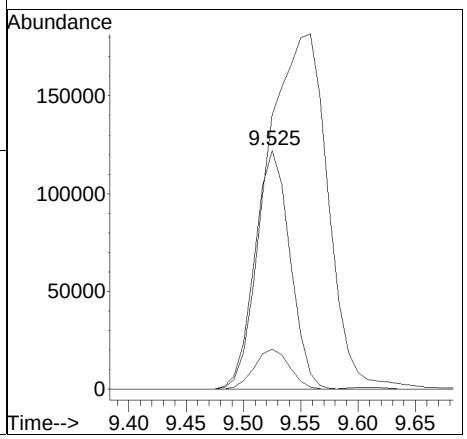


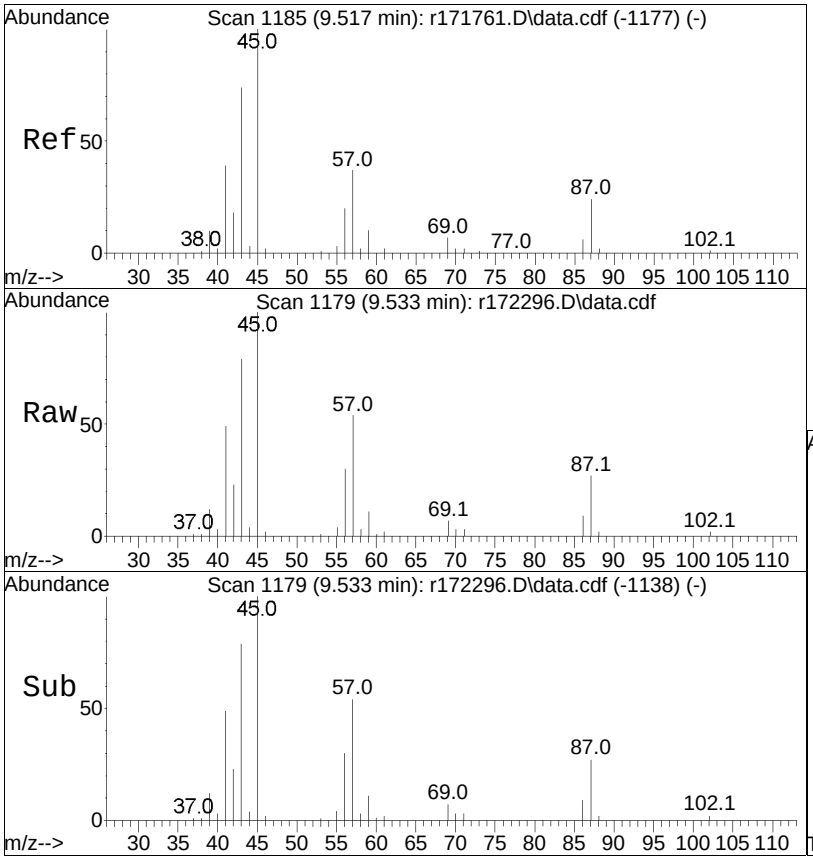


#44
hexane
Concen: 9.09 ppbV
RT: 9.525 min Scan# 1178
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 57 Resp: 263565

Ion	Ratio	Lower	Upper
57	100		
43	115.1	113.3	169.9
86	16.8	13.6	20.4

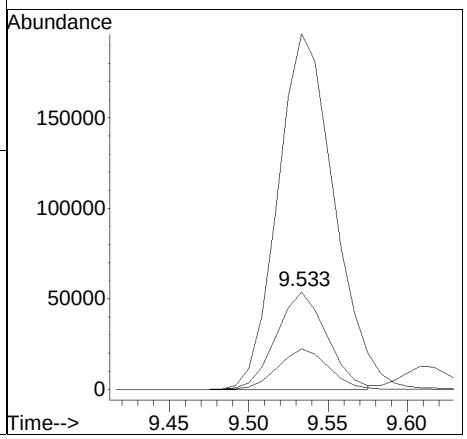


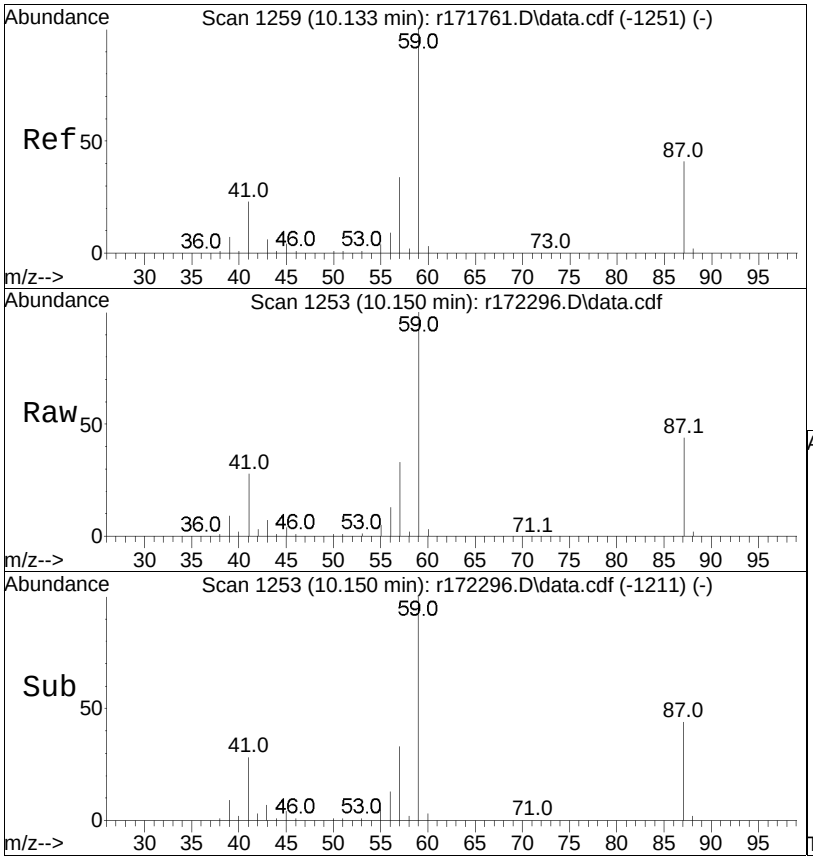


#45
diisopropyl ether
Concen: 8.11 ppbV
RT: 9.533 min Scan# 1179
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 87 Resp: 118914

Ion	Ratio	Lower	Upper
87	100		
59	41.6	34.4	51.6
45	365.1	333.7	500.5

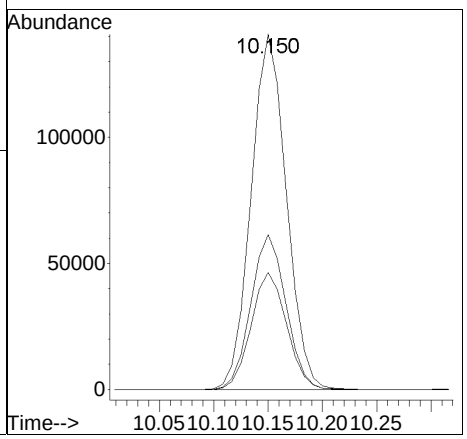


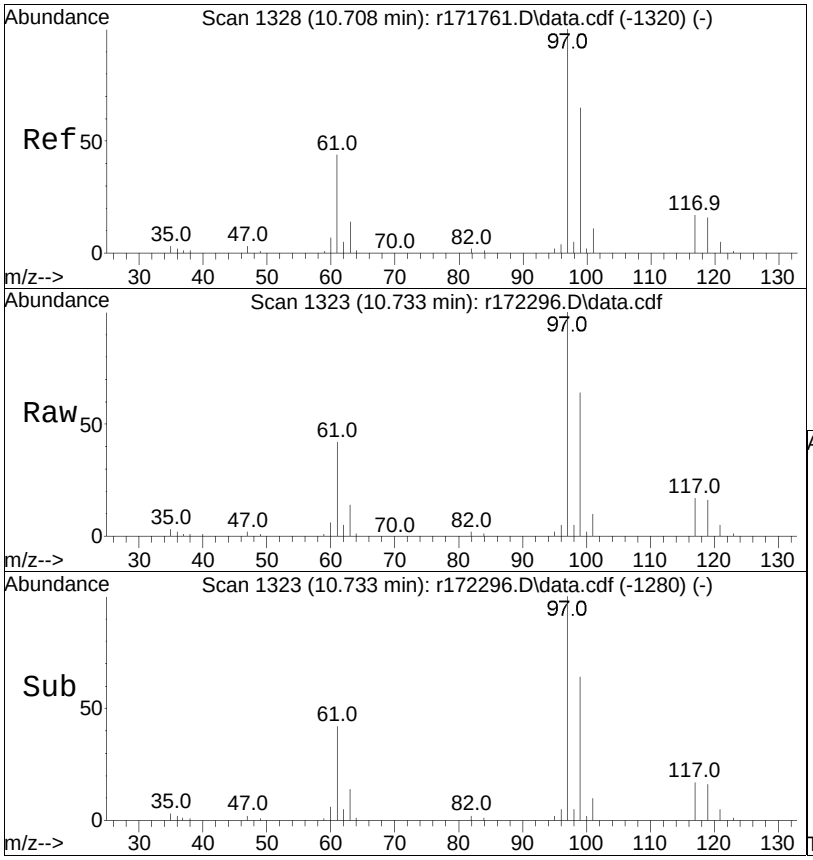


#46
tert-butyl ethyl ether
Concen: 7.56 ppbV
RT: 10.150 min Scan# 1253
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 59 Resp: 318064

Ion	Ratio	Lower	Upper
59	100		
87	43.6	32.9	49.3
57	32.9	26.9	40.3

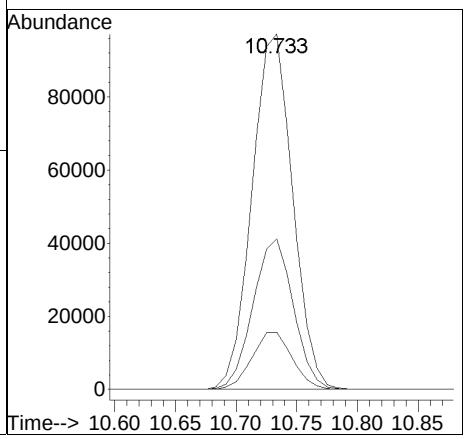


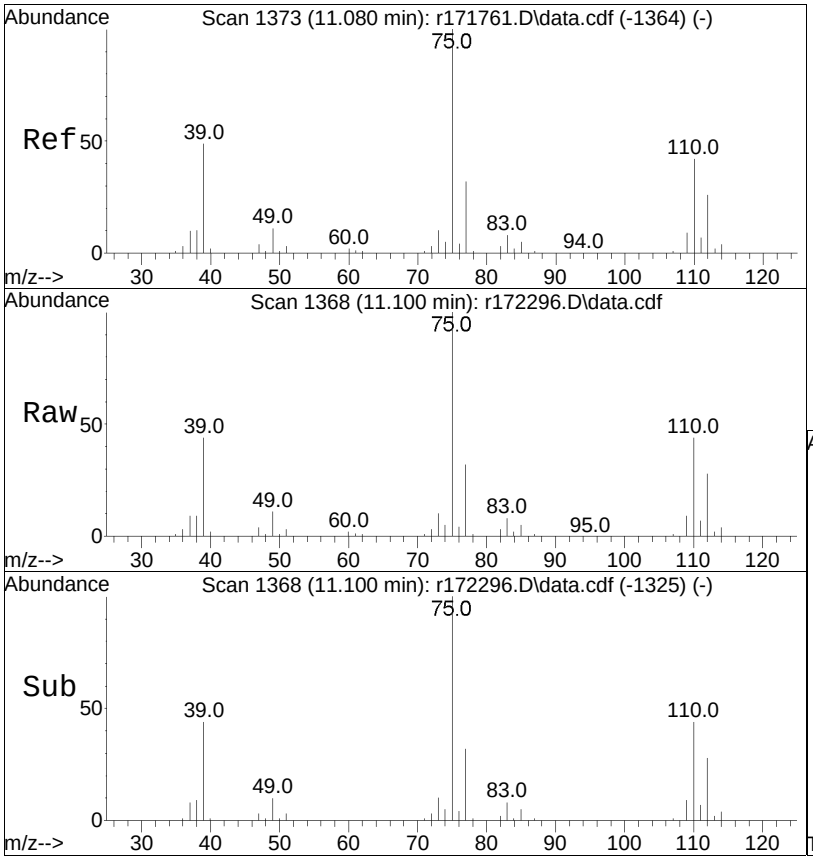


#48
1,1,1-trichloroethane
Concen: 9.33 ppbV
RT: 10.733 min Scan# 1323
Delta R.T. 0.025 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 97 Resp: 226269

Ion	Ratio	Lower	Upper
97	100		
61	42.4	35.0	52.4
119	16.1	13.2	19.8

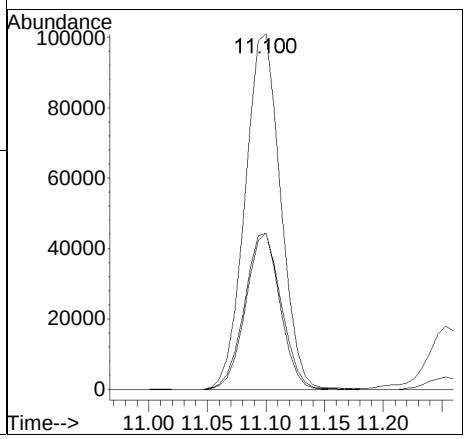


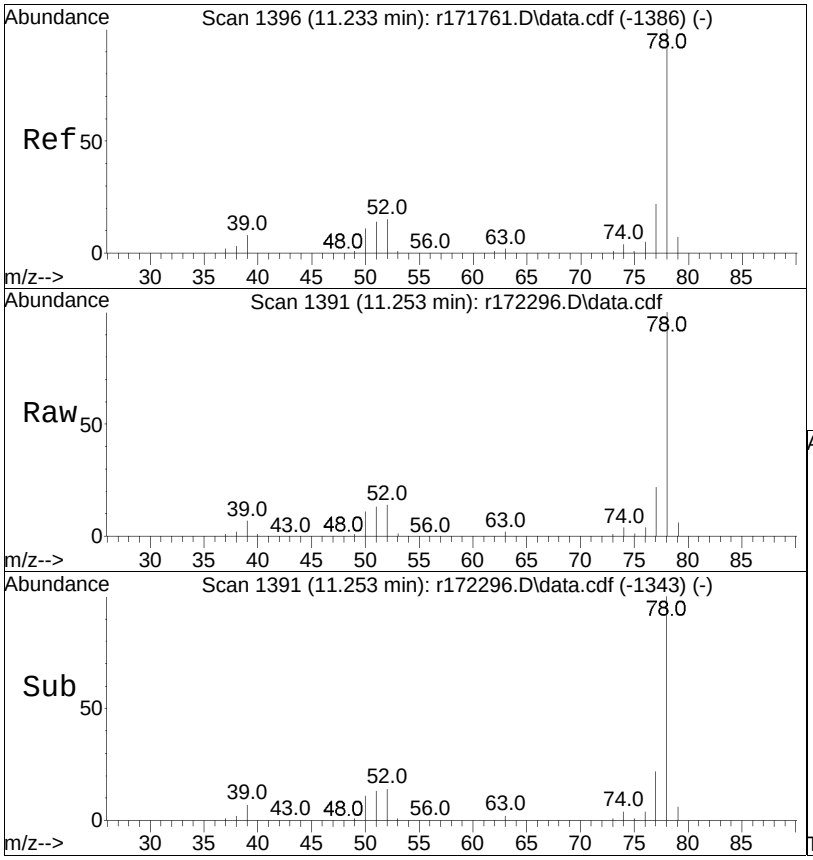


#49
1,1-dichloropropene
Concen: 8.63 ppbV
RT: 11.100 min Scan# 1368
Delta R.T. 0.020 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 75 Resp: 212892

Ion	Ratio	Lower	Upper
75	100		
110	44.0	33.8	50.6
39	44.0	38.8	58.2

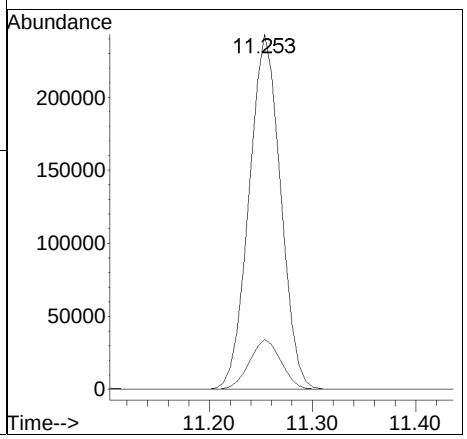


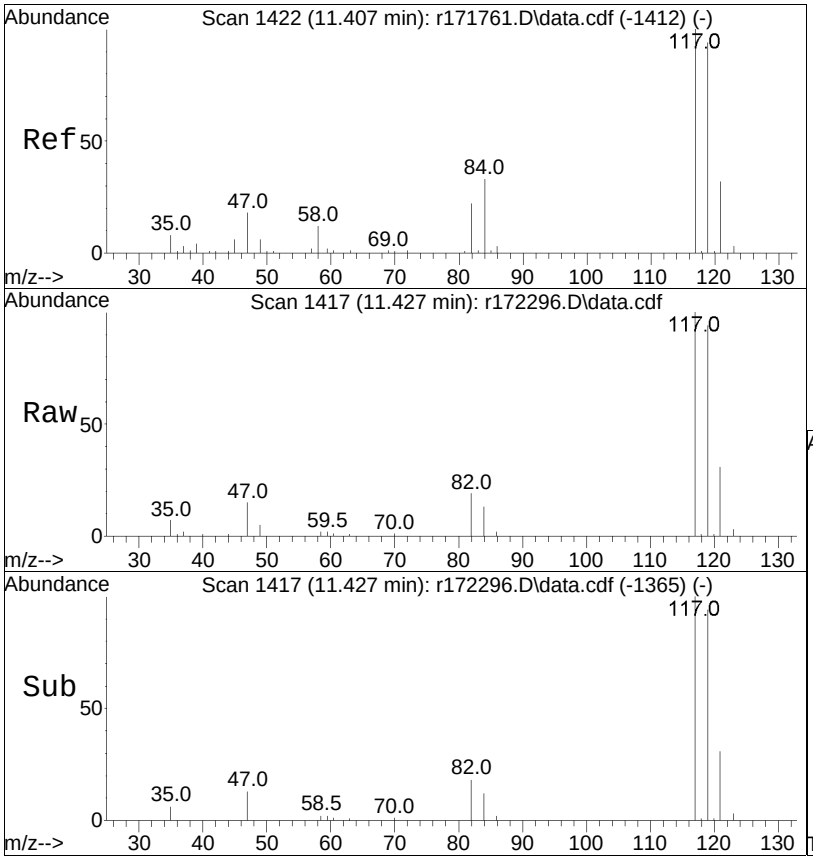


#50
benzene
Concen: 8.48 ppbV
RT: 11.253 min Scan# 1391
Delta R.T. 0.020 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 78 Resp: 517047

Ion	Ratio	Lower	Upper
78	100		
52	14.1	11.8	17.6

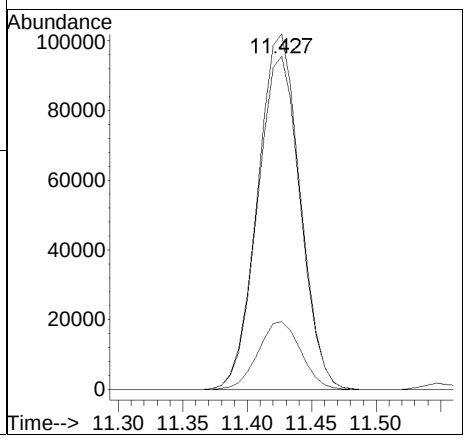


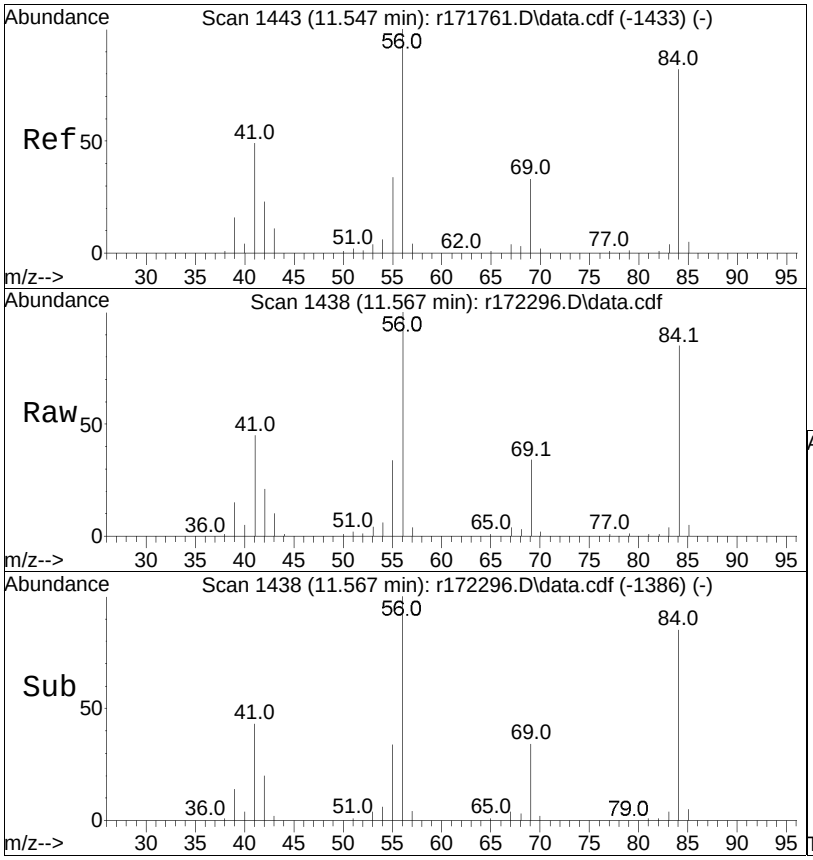


#52
carbon tetrachloride
Concen: 9.89 ppbV
RT: 11.427 min Scan# 1417
Delta R.T. 0.020 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:117 Resp: 233170

Ion	Ratio	Lower	Upper
117	100		
119	93.8	75.0	112.4
82	19.1	17.2	25.8

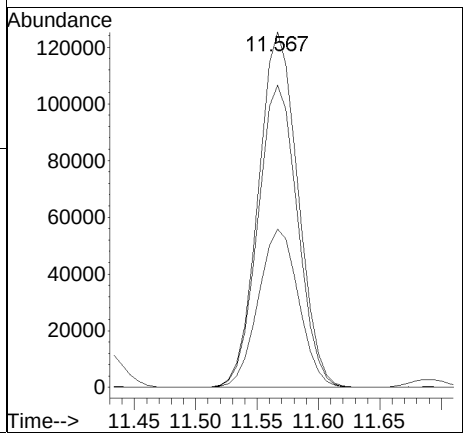


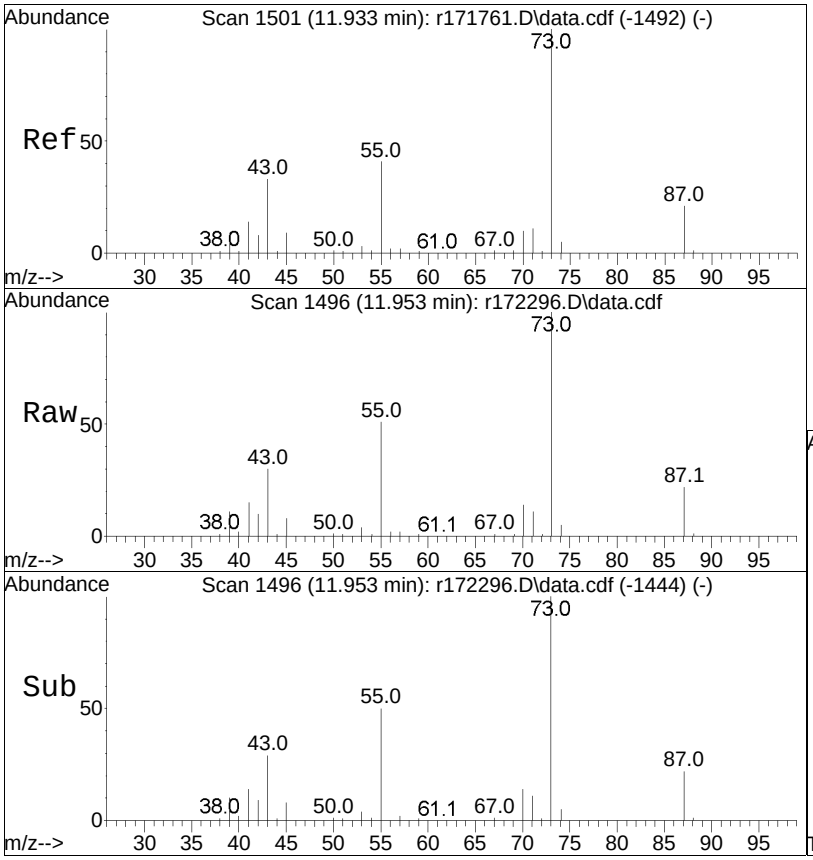


#53
cyclohexane
Concen: 9.08 ppbV
RT: 11.567 min Scan# 1438
Delta R.T. 0.020 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 56 Resp: 281383

Ion	Ratio	Lower	Upper
56	100		
84	85.0	65.8	98.6
41	44.5	39.3	58.9

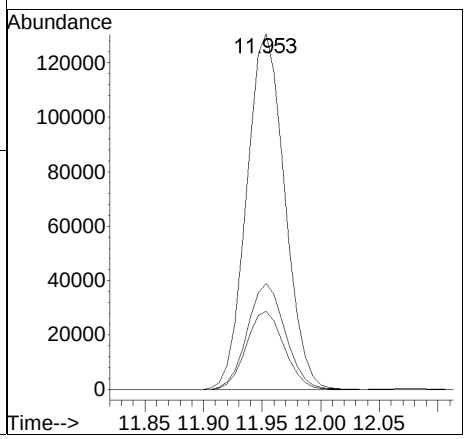


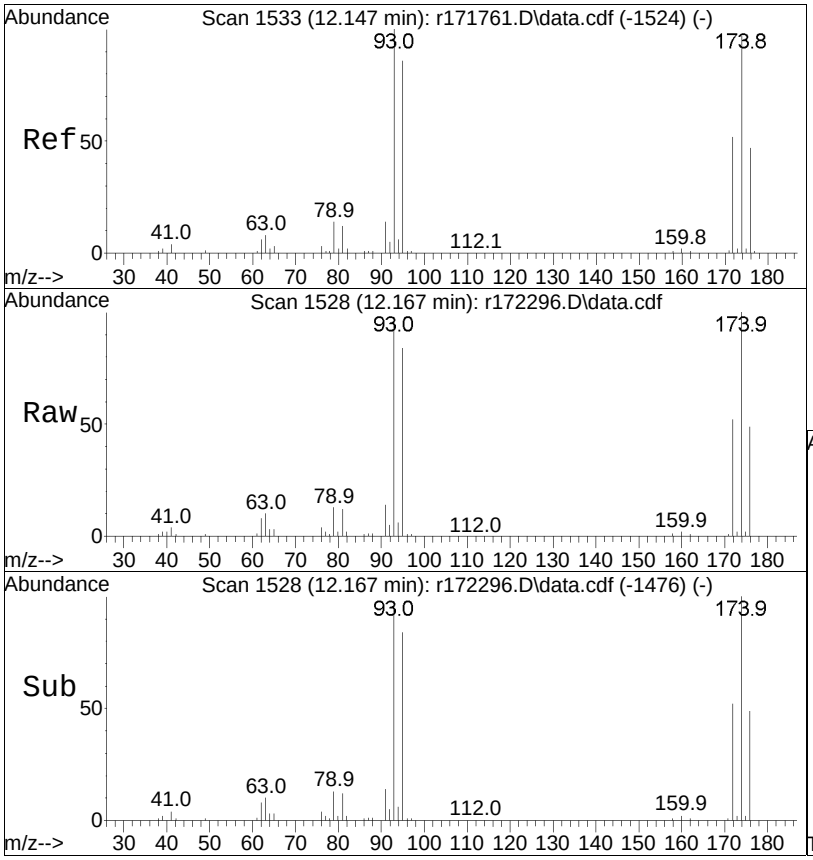


#54
tert-amyl methyl ether
Concen: 7.38 ppbV
RT: 11.953 min Scan# 1496
Delta R.T. 0.020 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 73 Resp: 294786

Ion	Ratio	Lower	Upper
73	100		
43	29.8	26.2	39.4
87	22.0	16.7	25.1

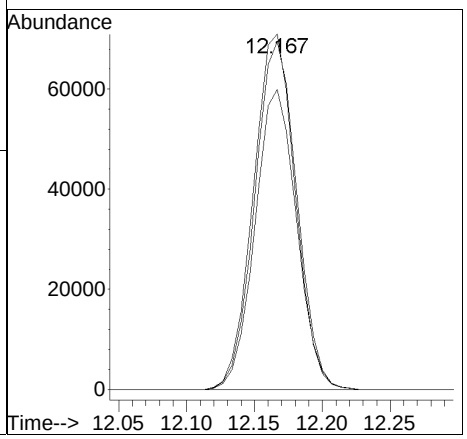


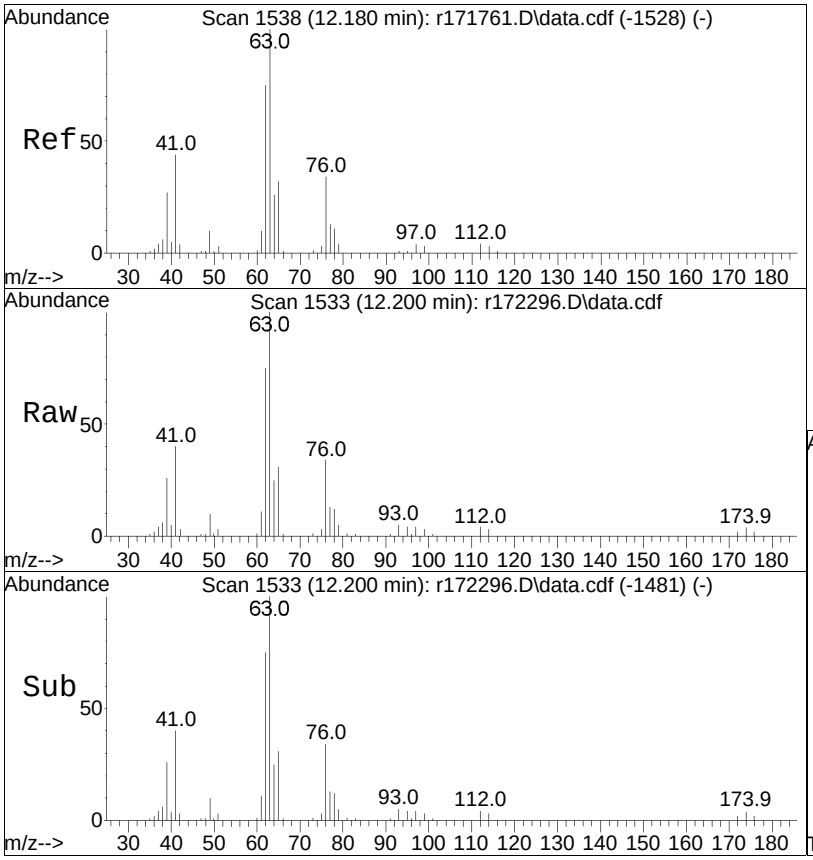


#55
dibromomethane
Concen: 8.27 ppbV
RT: 12.167 min Scan# 1528
Delta R.T. 0.020 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 93 Resp: 149737

Ion	Ratio	Lower	Upper
93	100		
174	102.1	77.8	116.8
95	86.2	68.6	103.0

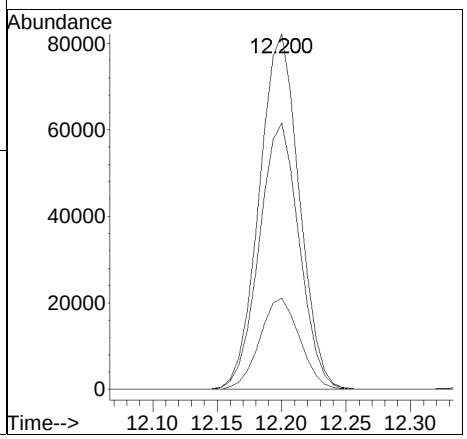


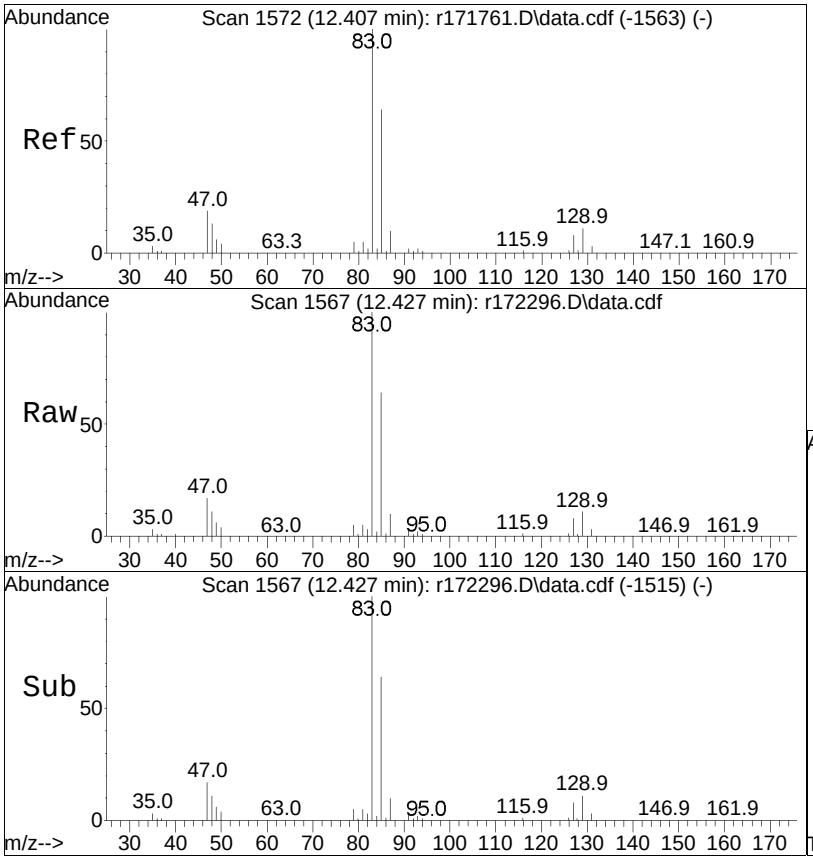


#56
1,2-dichloropropane
Concen: 8.49 ppbV
RT: 12.200 min Scan# 1533
Delta R.T. 0.020 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 63 Resp: 177300

Ion	Ratio	Lower	Upper
63	100		
62	75.0	60.1	90.1
39	25.7	21.6	32.4

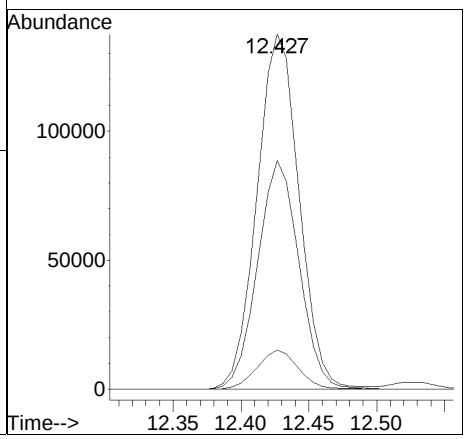


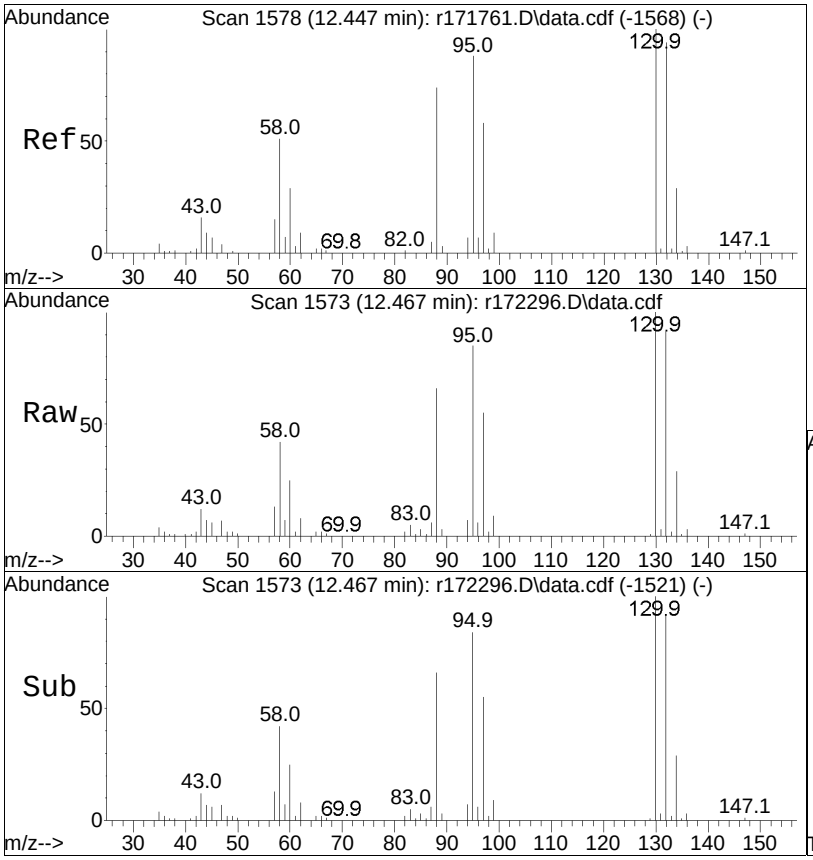


#57
bromodichloromethane
Concen: 9.63 ppbV
RT: 12.427 min Scan# 1567
Delta R.T. 0.020 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 83 Resp: 297273

Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.0	76.6
129	11.1	8.4	12.6

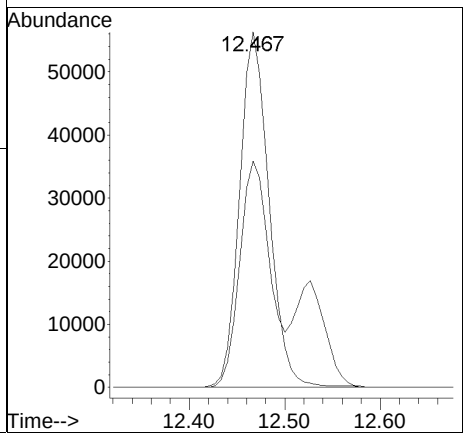


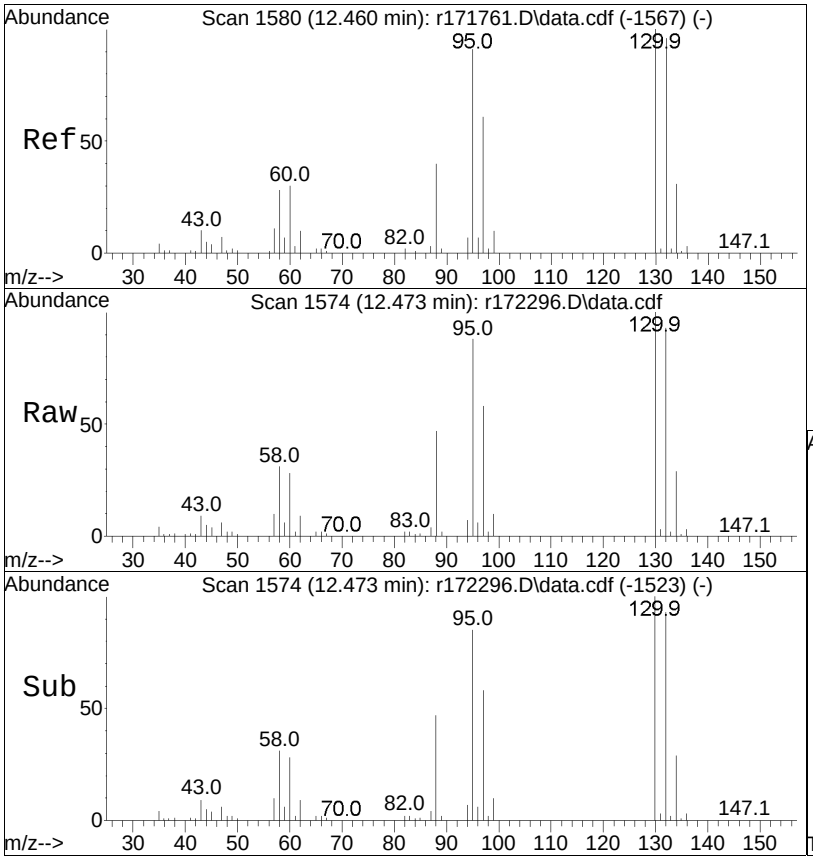


#58
1,4-dioxane
Concen: 9.42 ppbV
RT: 12.467 min Scan# 1573
Delta R.T. 0.020 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 88 Resp: 120586

Ion	Ratio	Lower	Upper
88	100		
58	63.7	54.9	82.3

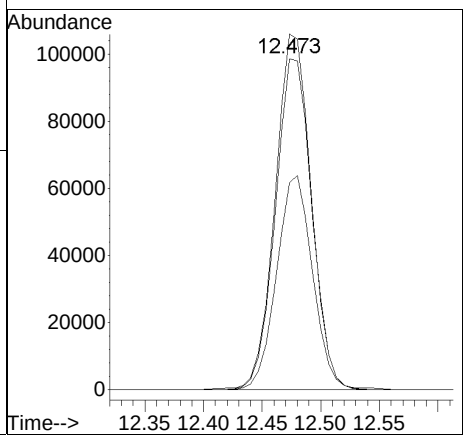


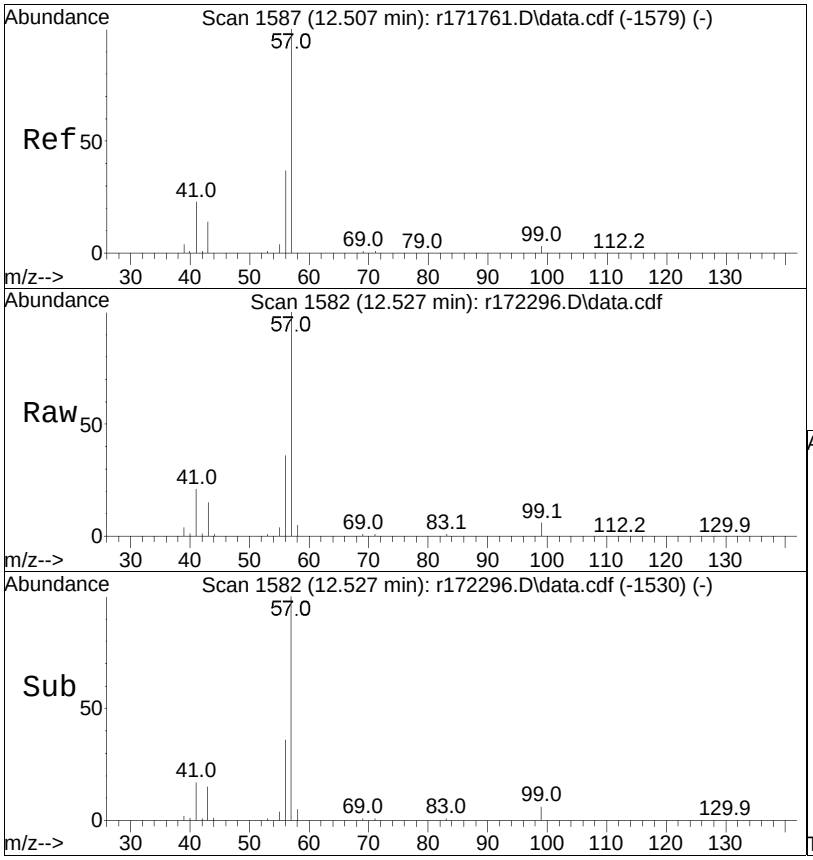


#59
trichloroethene
Concen: 9.18 ppbV
RT: 12.473 min Scan# 1574
Delta R.T. 0.013 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:130 Resp: 225888

Ion	Ratio	Lower	Upper
130	100		
132	93.0	77.0	115.4
97	58.2	49.2	73.8

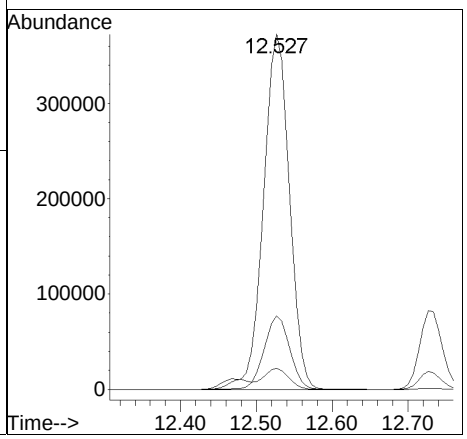


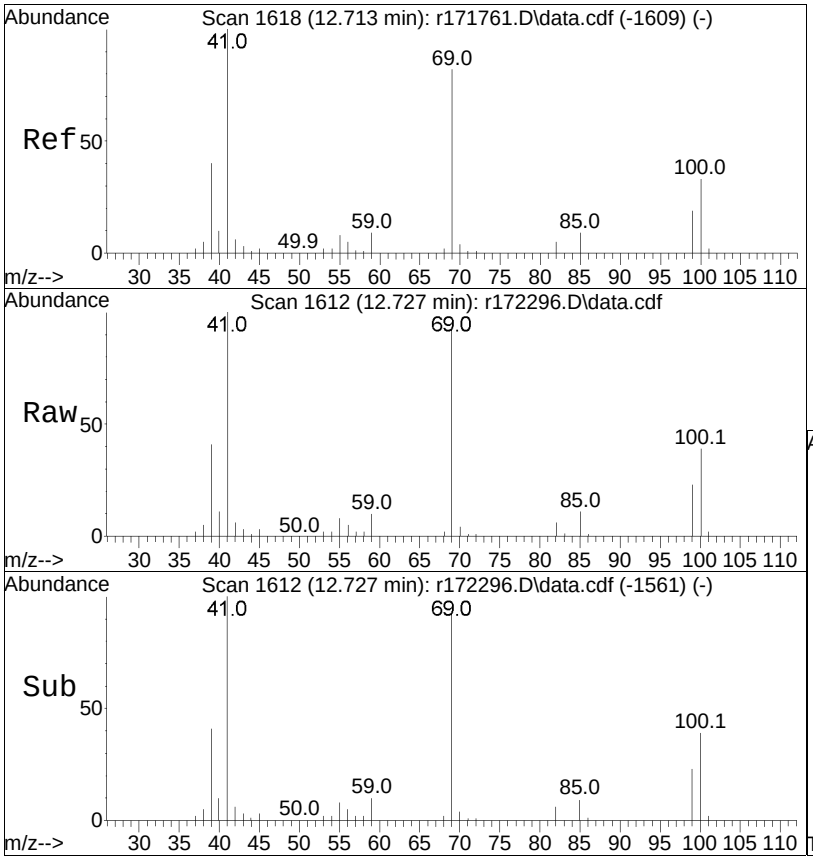


#60
2,2,4-trimethylpentane
Concen: 9.43 ppbV
RT: 12.527 min Scan# 1582
Delta R.T. 0.020 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 57 Resp: 896564

Ion	Ratio	Lower	Upper
57	100		
99	6.0	4.6	6.8
41	20.7	17.7	26.5

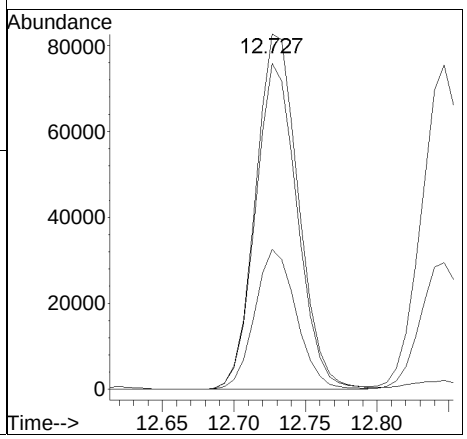


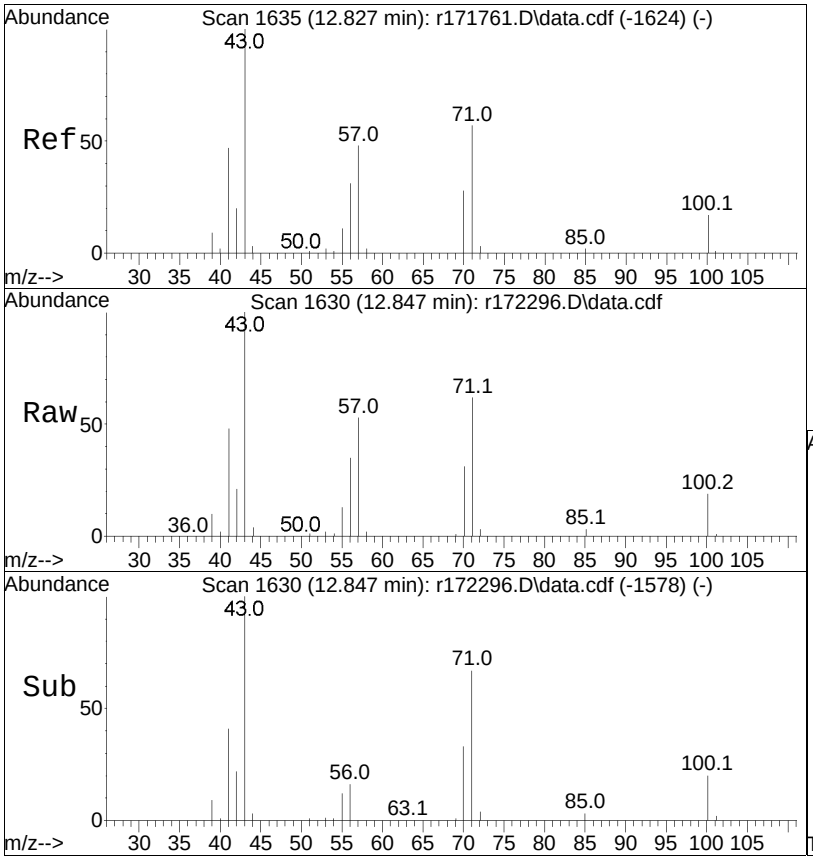


#61
methyl methacrylate
Concen: 6.79 ppbV
RT: 12.727 min Scan# 1612
Delta R.T. 0.013 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 41 Resp: 172069

Ion	Ratio	Lower	Upper
41	100		
69	89.9	65.8	98.8
100	38.3	27.0	40.6

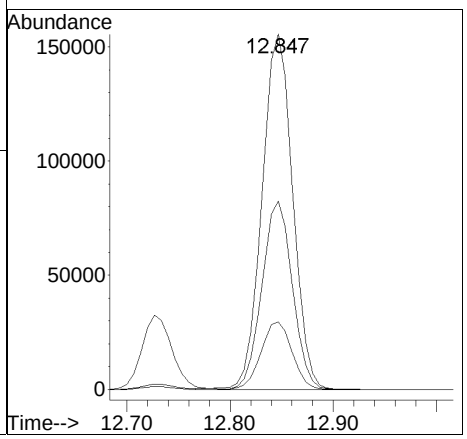


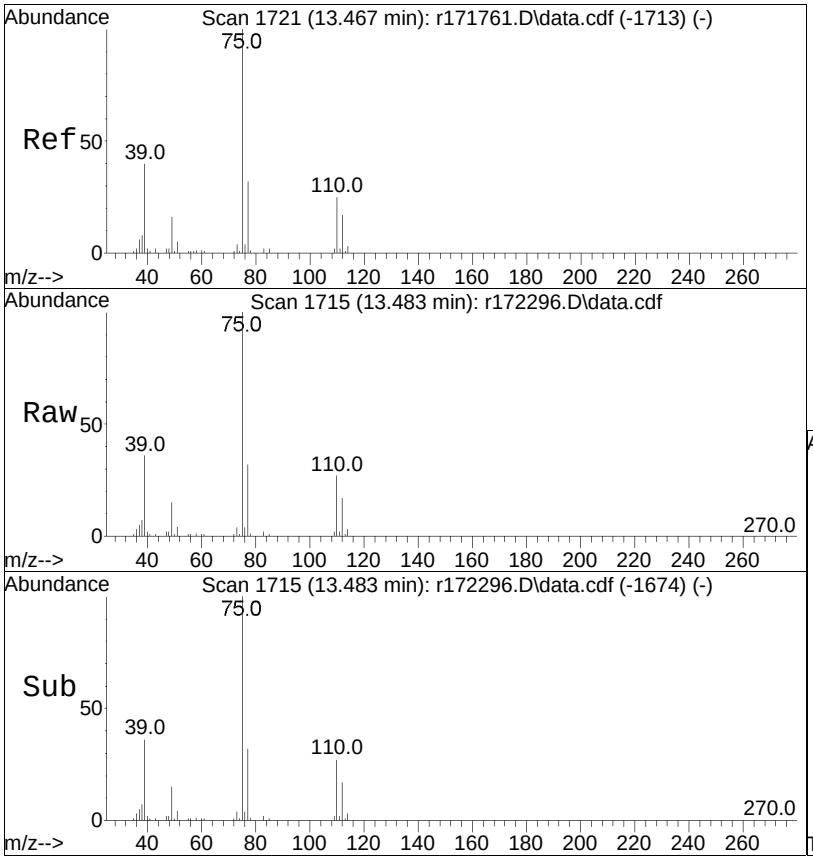


#62
heptane
Concen: 8.69 ppbV
RT: 12.847 min Scan# 1630
Delta R.T. 0.020 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 43 Resp: 321830

Ion	Ratio	Lower	Upper
43	100		
57	53.0	38.0	57.0
100	19.0	13.8	20.6

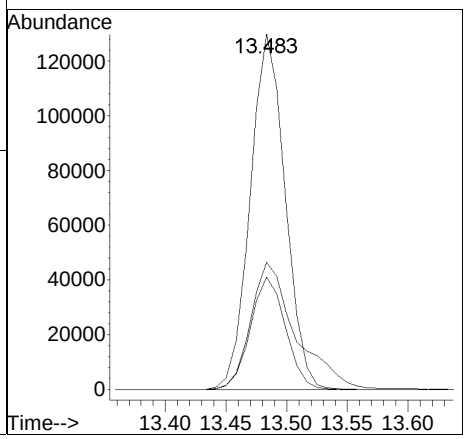


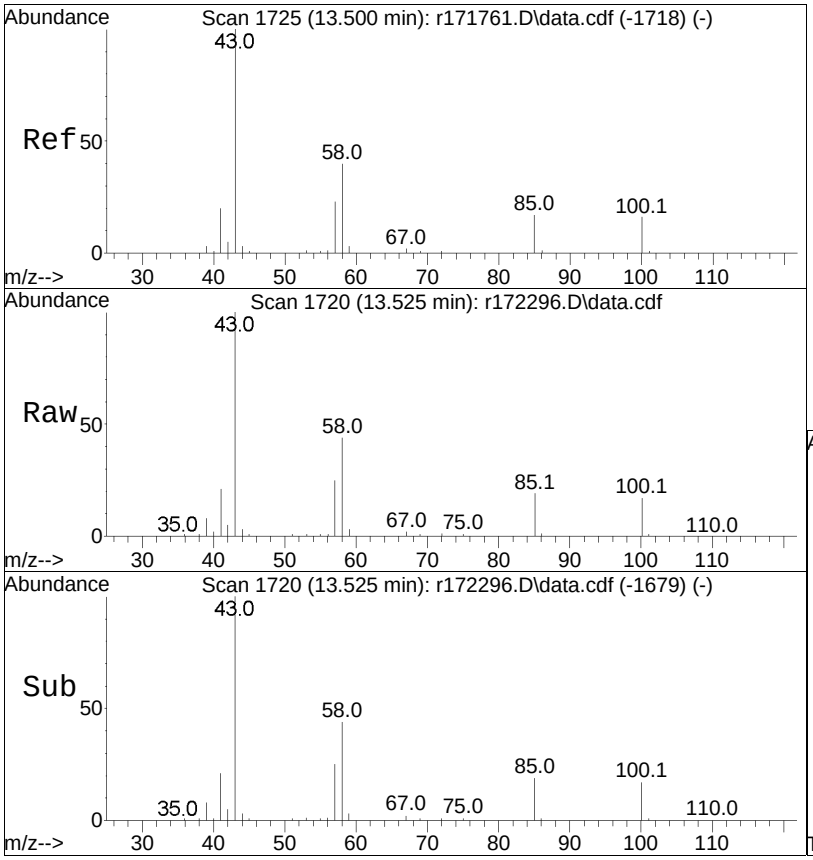


#63
cis-1,3-dichloropropene
Concen: 9.25 ppbV
RT: 13.483 min Scan# 1715
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 75 Resp: 259814

Ion	Ratio	Lower	Upper
75	100		
39	35.8	31.7	47.5
77	31.6	25.5	38.3

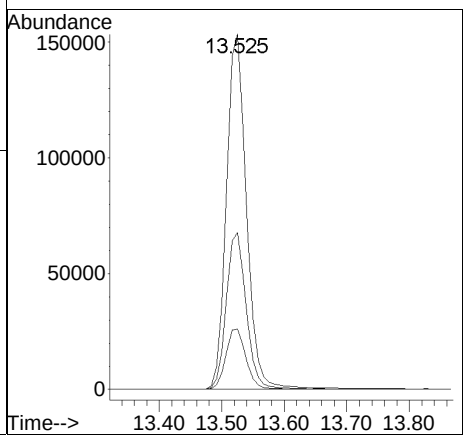


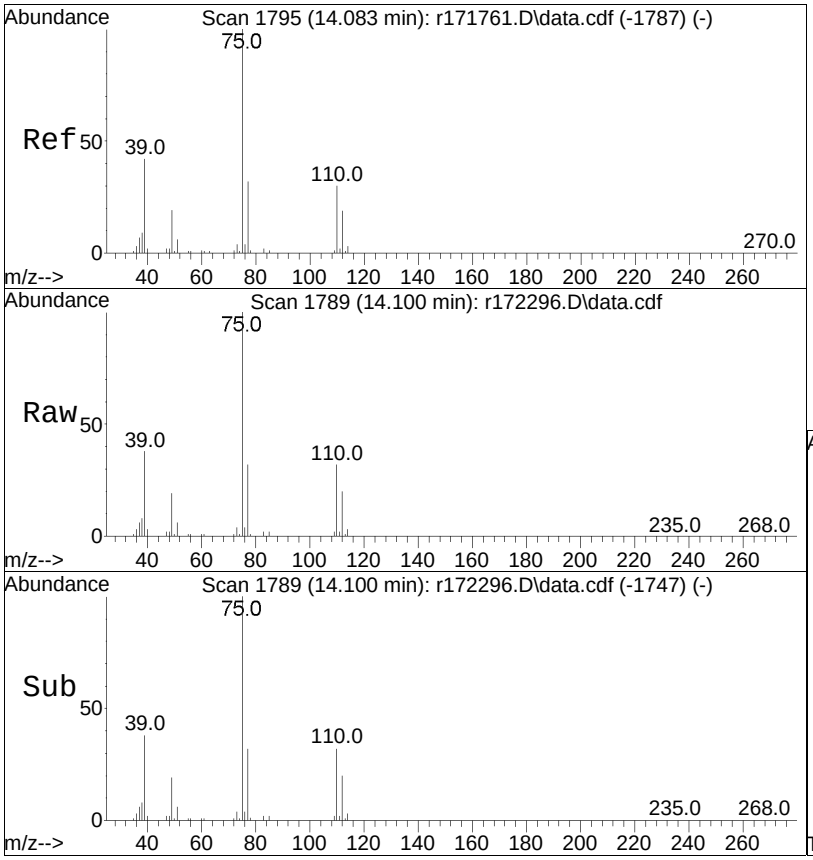


#64
4-methyl-2-pentanone
Concen: 8.47 ppbV
RT: 13.525 min Scan# 1720
Delta R.T. 0.025 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 43 Resp: 343652

Ion	Ratio	Lower	Upper
43	100		
58	44.2	32.3	48.5
100	17.0	12.6	18.8

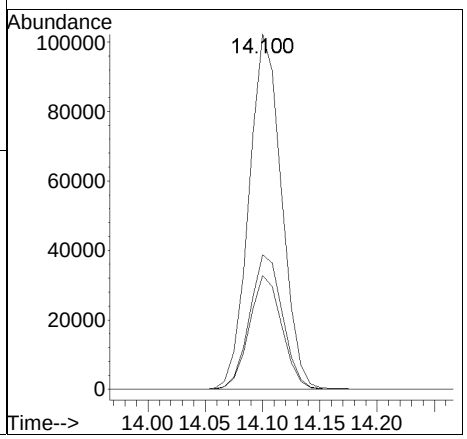


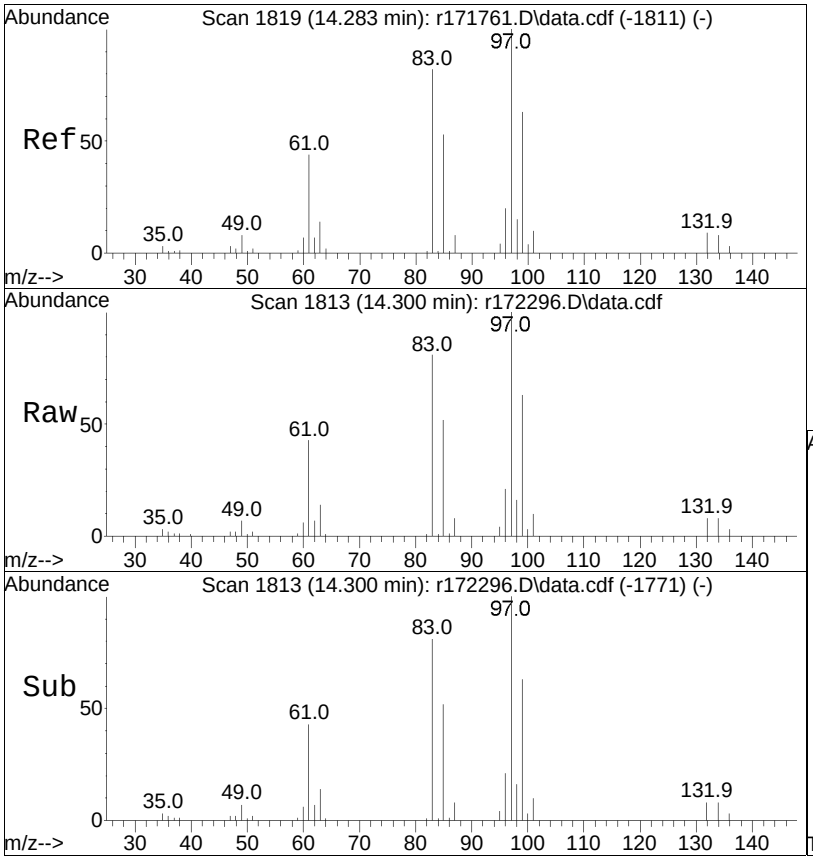


#65
trans-1,3-dichloropropene
Concen: 7.99 ppbV
RT: 14.100 min Scan# 1789
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 75 Resp: 202313

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.8	38.6
39	37.9	33.6	50.4

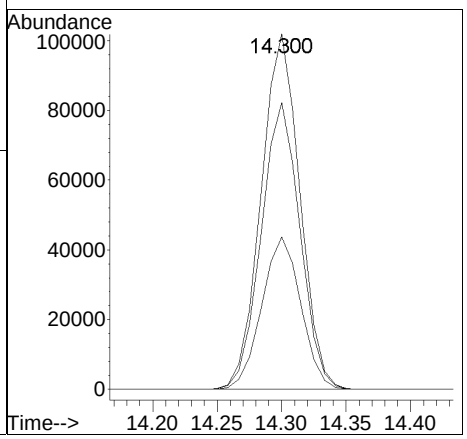


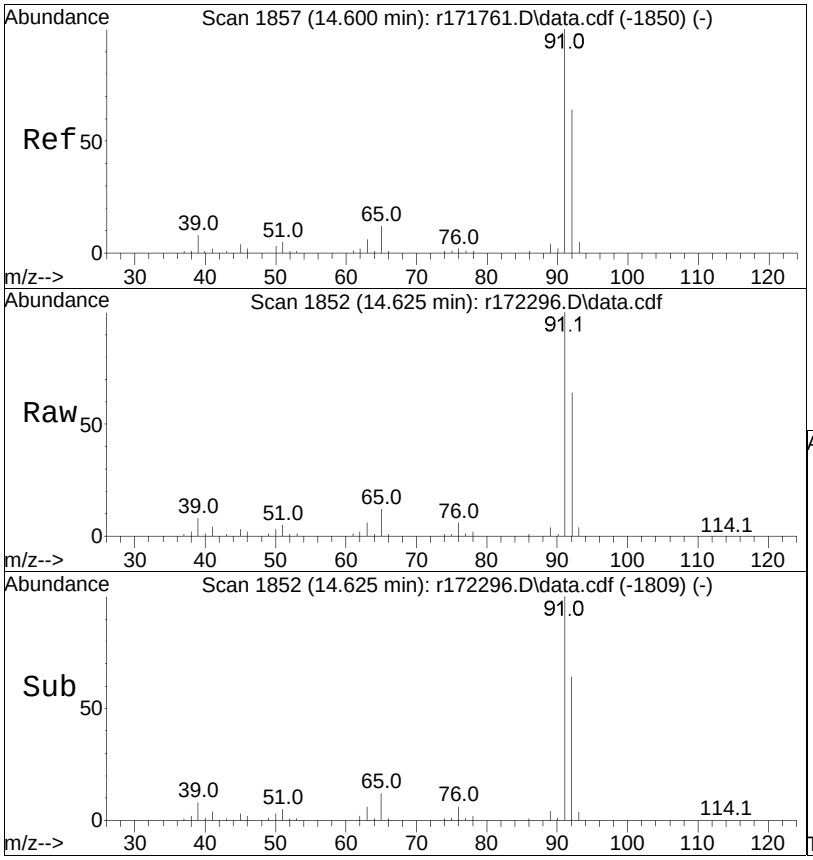


#66
1,1,2-trichloroethane
Concen: 8.85 ppbV
RT: 14.300 min Scan# 1813
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 97 Resp: 213015

Ion	Ratio	Lower	Upper
97	100		
83	80.7	65.4	98.0
61	42.9	35.3	52.9

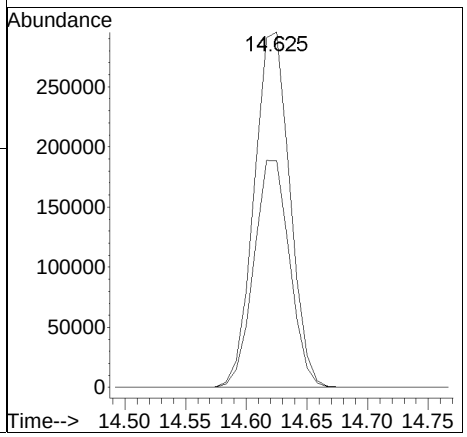


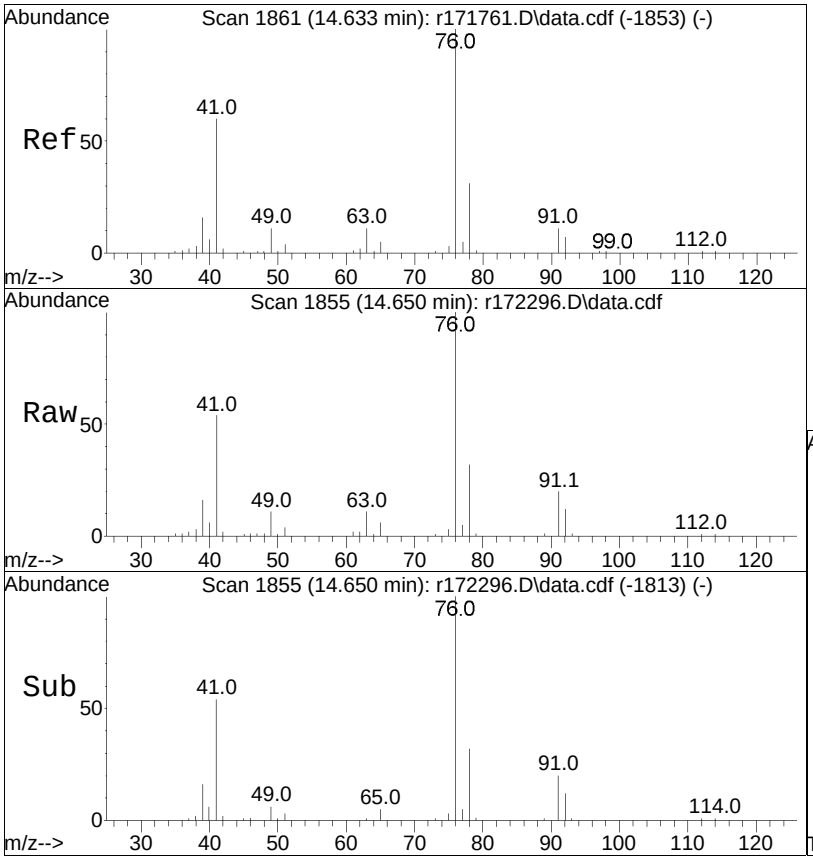


#68
toluene
Concen: 9.52 ppbV
RT: 14.625 min Scan# 1852
Delta R.T. 0.025 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 91 Resp: 604542

Ion	Ratio	Lower	Upper
91	100		
92	63.8	51.0	76.6

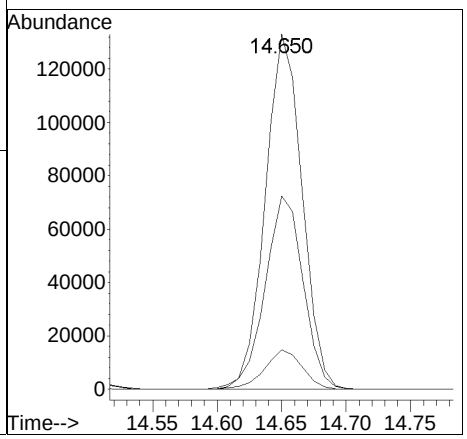


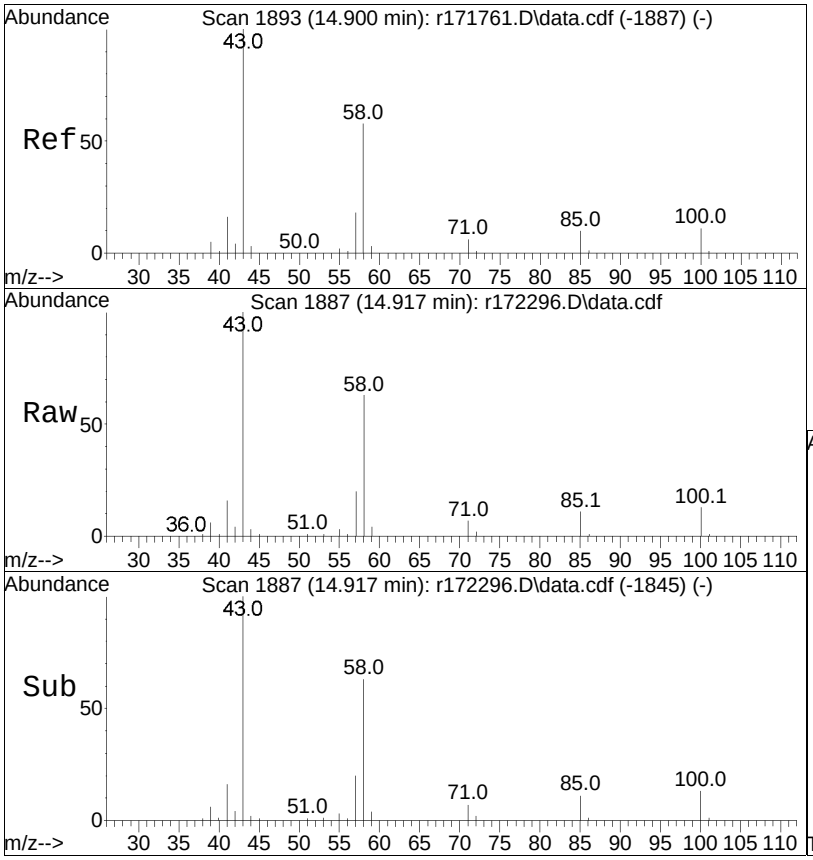


#71
1,3-dichloropropane
Concen: 8.67 ppbV
RT: 14.650 min Scan# 1855
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 76 Resp: 263966

Ion	Ratio	Lower	Upper
76	100		
41	54.4	47.7	71.5
49	11.1	9.0	13.6

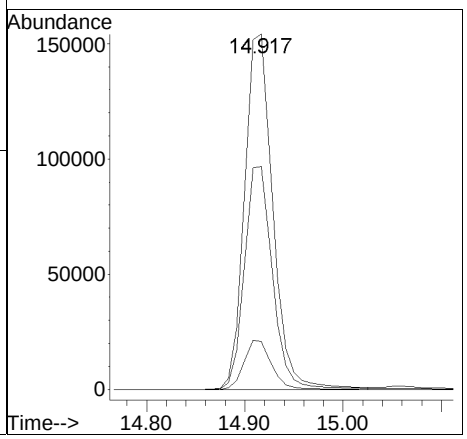


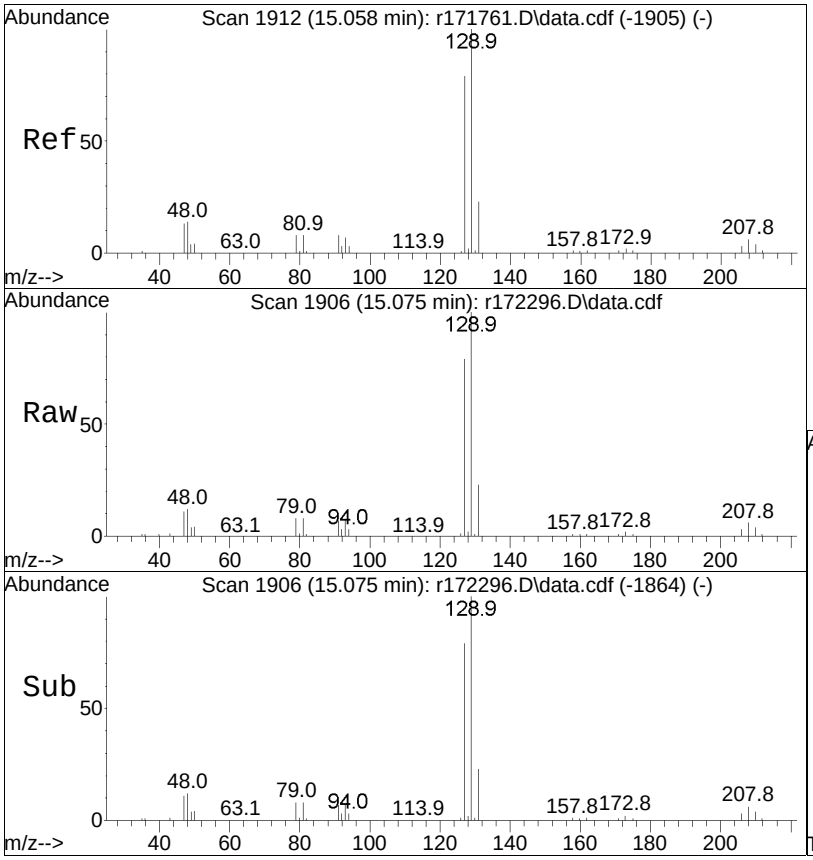


#72
2-hexanone
Concen: 8.86 ppbV
RT: 14.917 min Scan# 1887
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 43 Resp: 309168

Ion	Ratio	Lower	Upper
43	100		
58	62.7	46.5	69.7
100	13.5	9.7	14.5

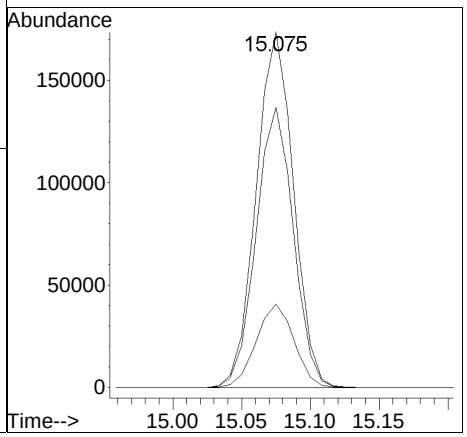


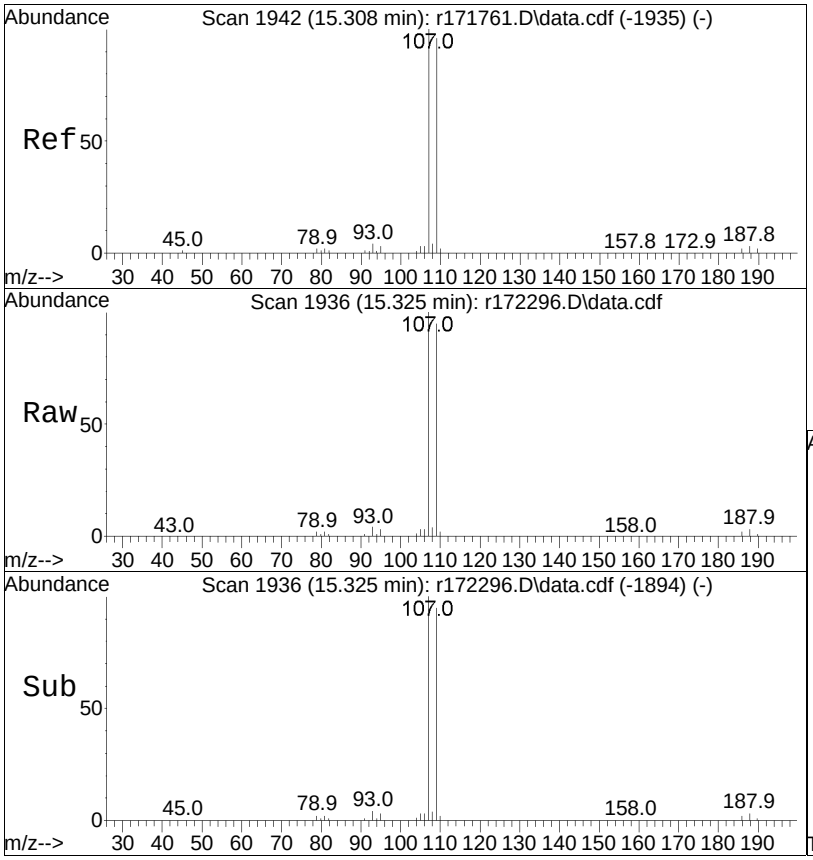


#74
dibromochloromethane
Concen: 11.06 ppbV
RT: 15.075 min Scan# 1906
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:129 Resp: 327465

Ion	Ratio	Lower	Upper
129	100		
127	78.9	63.1	94.7
131	23.5	18.1	27.1

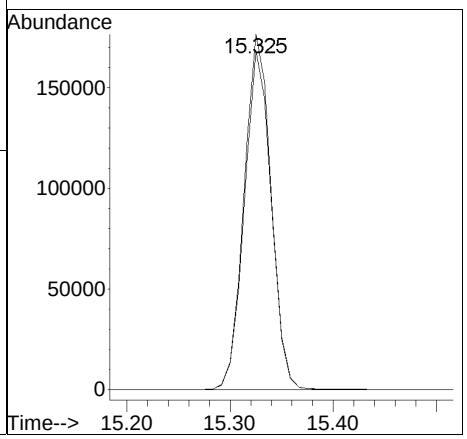


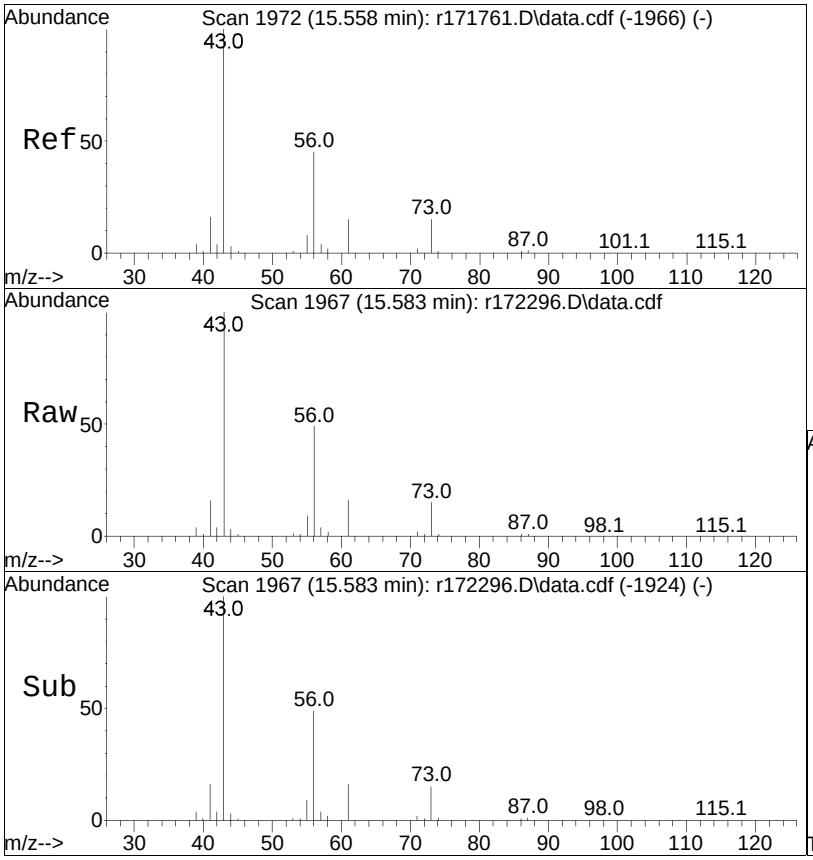


#75
1,2-dibromoethane
Concen: 9.71 ppbV
RT: 15.325 min Scan# 1936
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:107 Resp: 320571

Ion	Ratio	Lower	Upper
107	100		
109	95.4	77.2	115.8

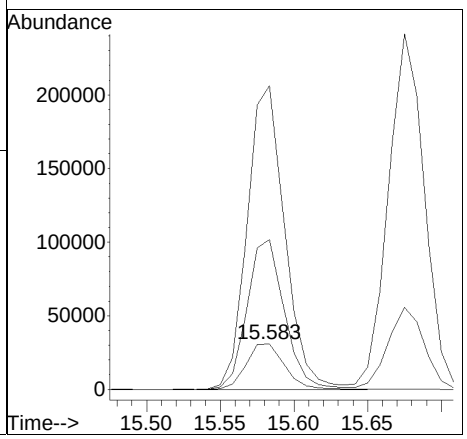


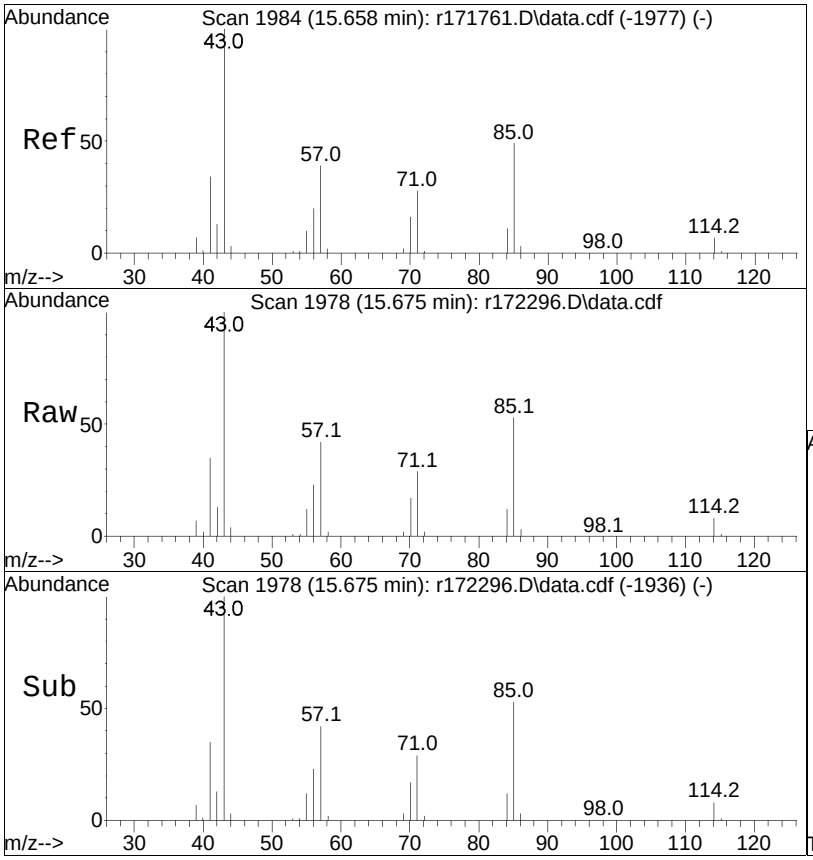


#76
butyl acetate
Concen: 8.57 ppbV
RT: 15.583 min Scan# 1967
Delta R.T. 0.025 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 73 Resp: 56274

Ion	Ratio	Lower	Upper
73	100		
56	330.3	247.4	371.2
43	668.9	549.3	823.9

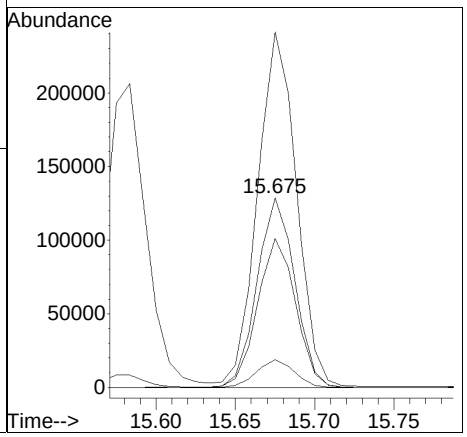


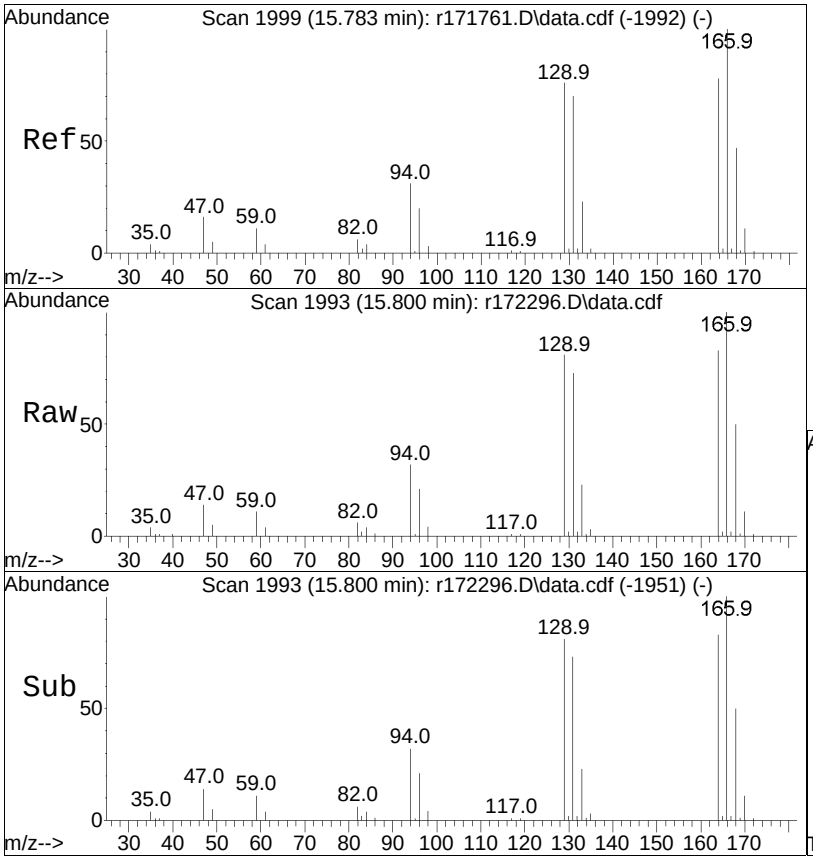


#77
octane
Concen: 9.09 ppbV
RT: 15.675 min Scan# 1978
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 85 Resp: 212626

Ion	Ratio	Lower	Upper
85	100		
57	78.5	64.2	96.2
114	14.7	11.8	17.6
43	187.5	167.6	251.4

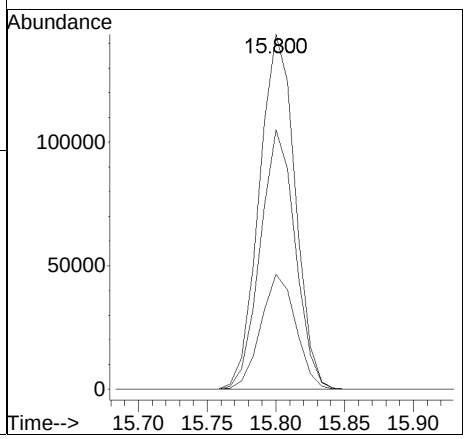


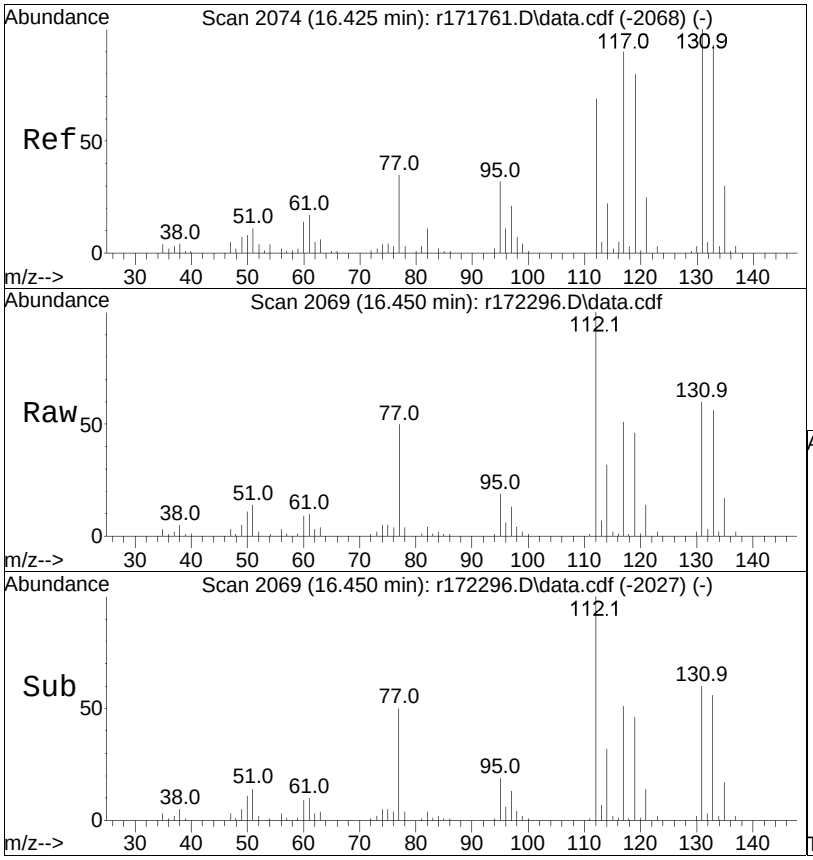


#78
tetrachloroethene
Concen: 9.63 ppbV
RT: 15.800 min Scan# 1993
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:166 Resp: 261504

Ion	Ratio	Lower	Upper
166	100		
131	73.0	56.0	84.0
94	32.4	24.9	37.3

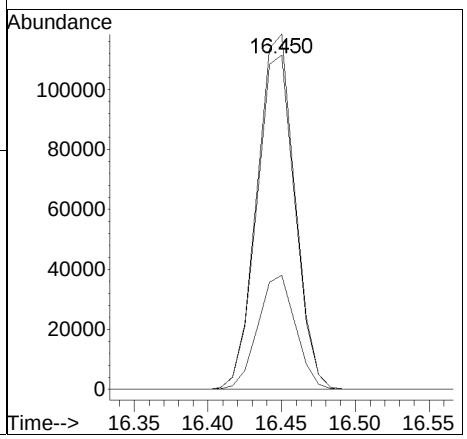


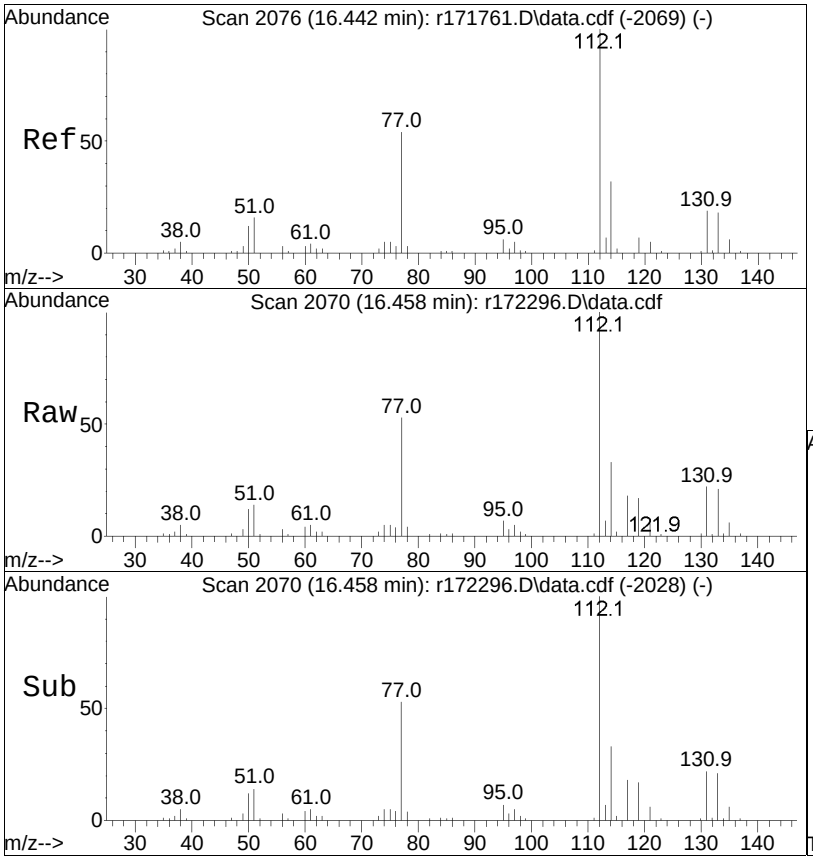


#79
1,1,1,2-tetrachloroethane
Concen: 9.49 ppbV
RT: 16.450 min Scan# 2069
Delta R.T. 0.025 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:131 Resp: 211872

Ion	Ratio	Lower	Upper
131	100		
133	94.1	74.7	112.1
95	32.1	25.4	38.2

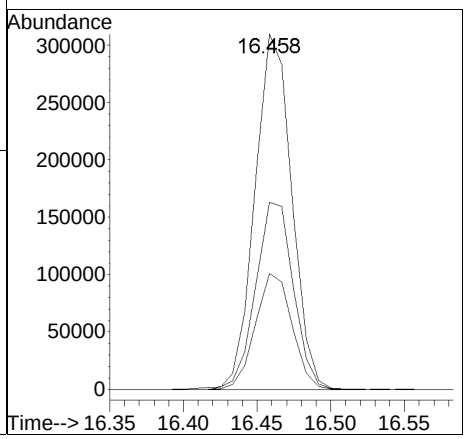


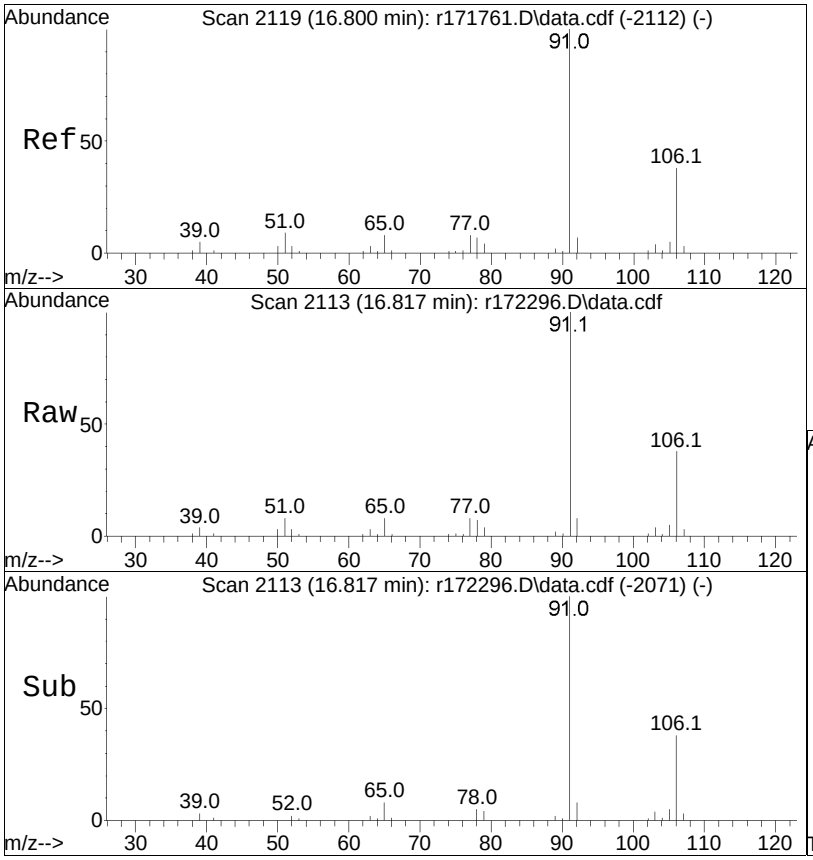


#80
chlorobenzene
Concen: 9.68 ppbV
RT: 16.458 min Scan# 2070
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:112 Resp: 537329

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.5	38.3
77	52.6	43.4	65.2

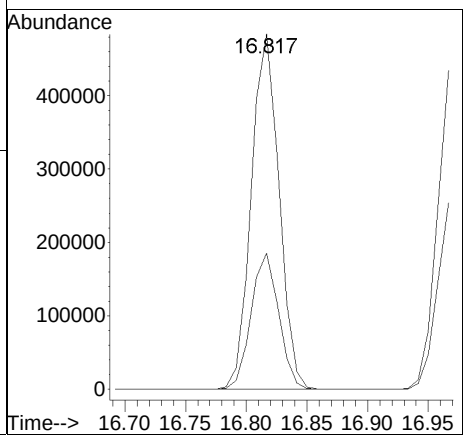


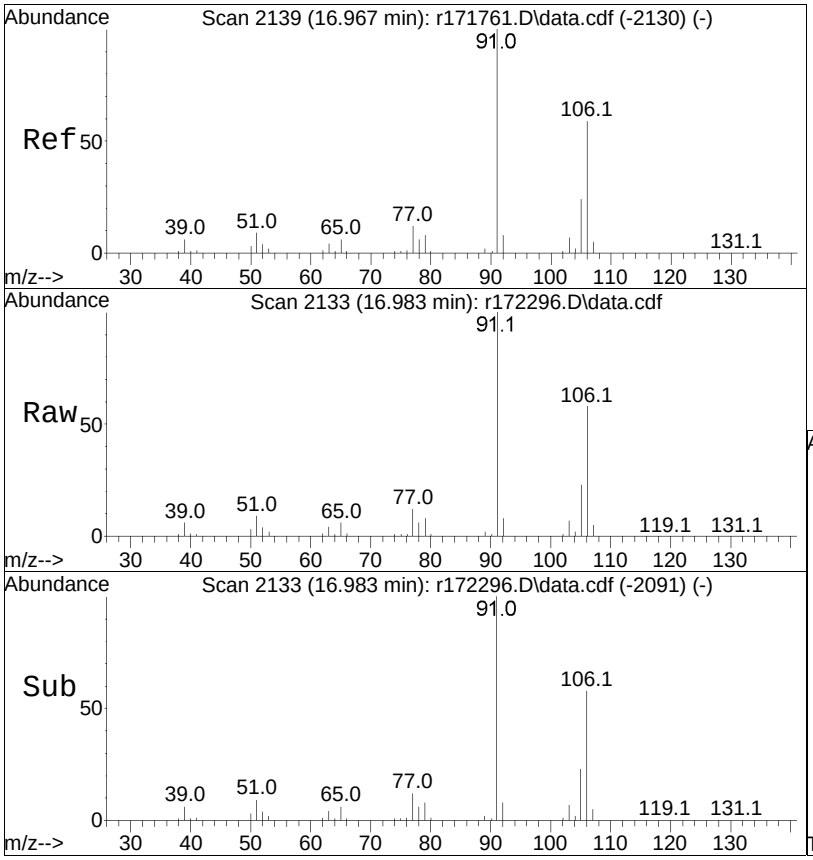


#81
ethylbenzene
Concen: 10.00 ppbV
RT: 16.817 min Scan# 2113
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 91 Resp: 769847

Ion	Ratio	Lower	Upper
91	100		
106	38.4	30.2	45.2

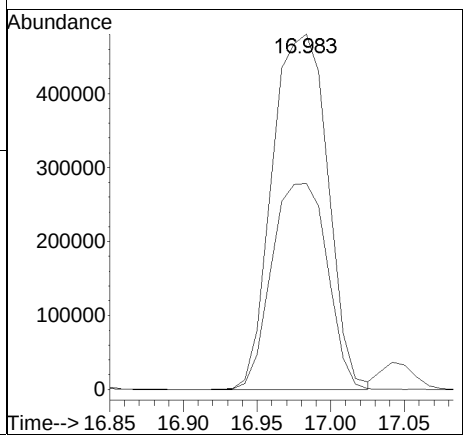


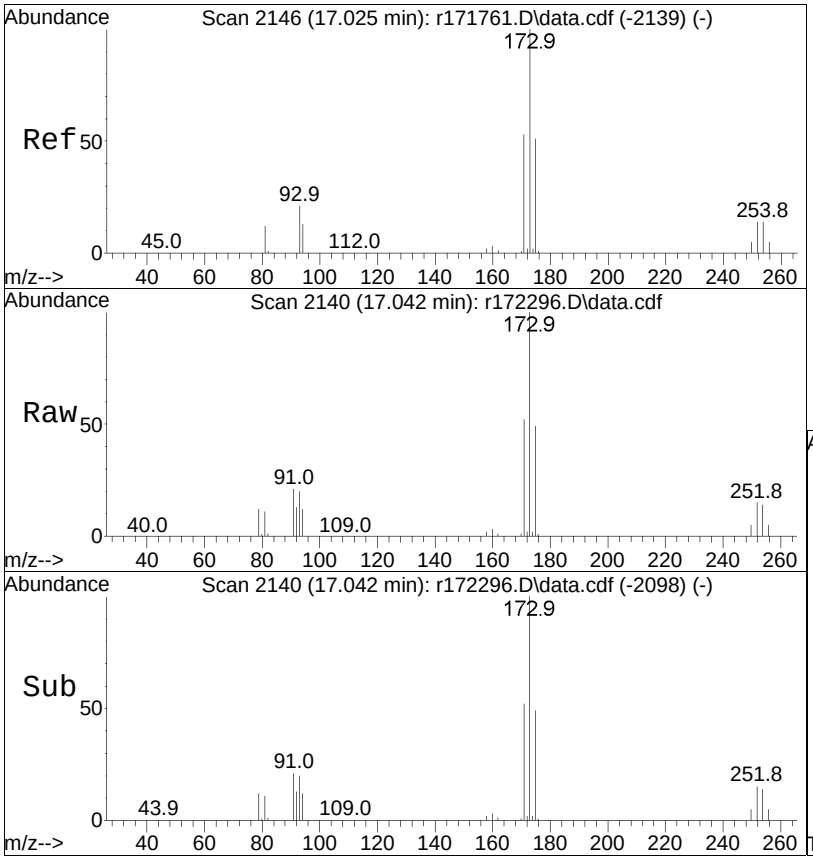


#83
m+p-xylene
Concen: 19.83 ppbV
RT: 16.983 min Scan# 2133
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 91 Resp: 1256008

Ion	Ratio	Lower	Upper
91	100		
106	58.0	47.1	70.7

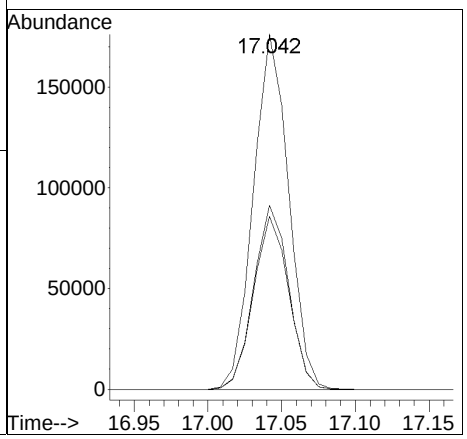


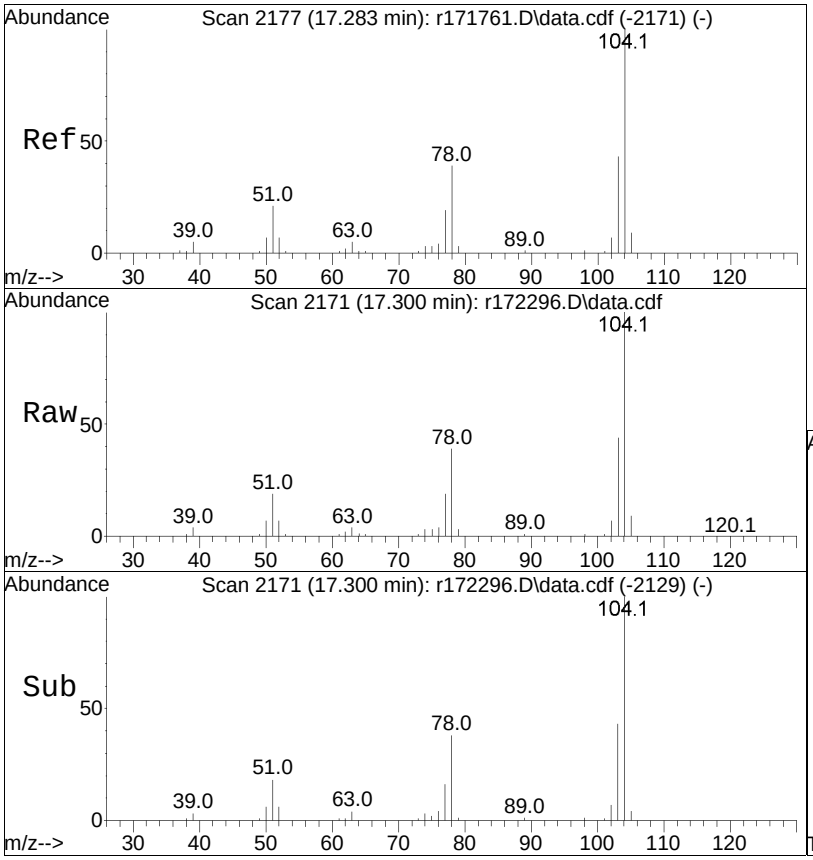


#84
bromoform
Concen: 10.97 ppbV
RT: 17.042 min Scan# 2140
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:173 Resp: 293802

Ion	Ratio	Lower	Upper
173	100		
175	48.7	40.6	61.0
171	51.8	42.0	63.0

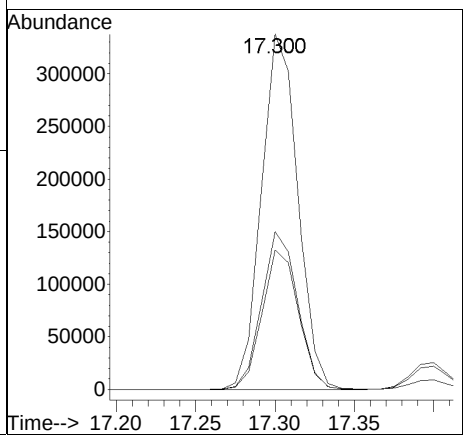


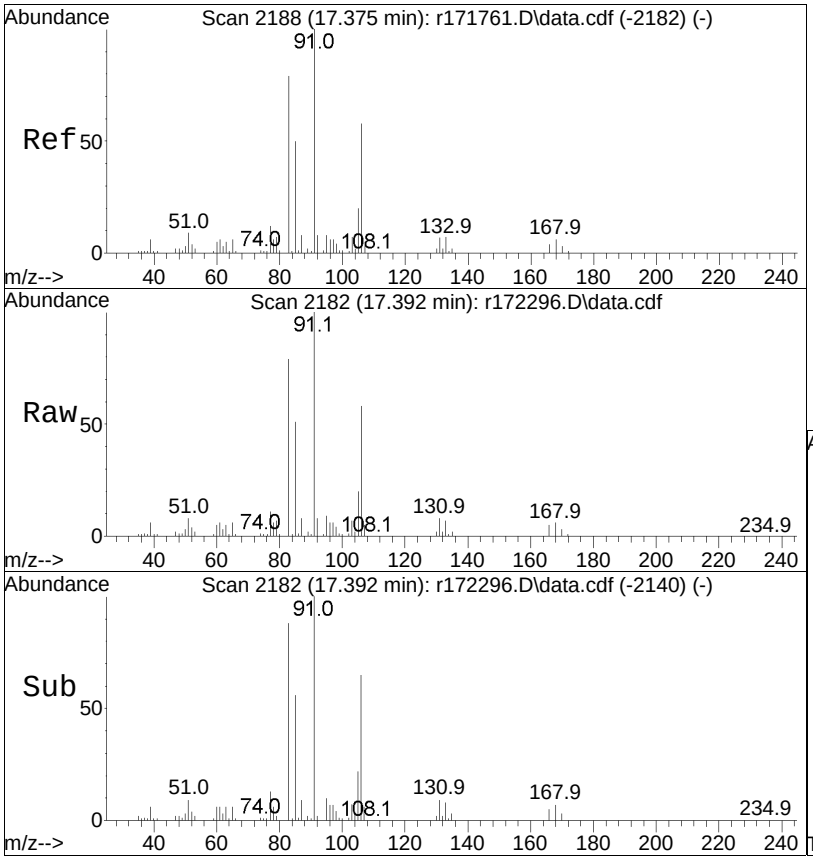


#85
styrene
Concen: 9.91 ppbV
RT: 17.300 min Scan# 2171
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:104 Resp: 538089

Ion	Ratio	Lower	Upper
104	100		
103	44.4	34.3	51.5
78	39.2	31.3	46.9

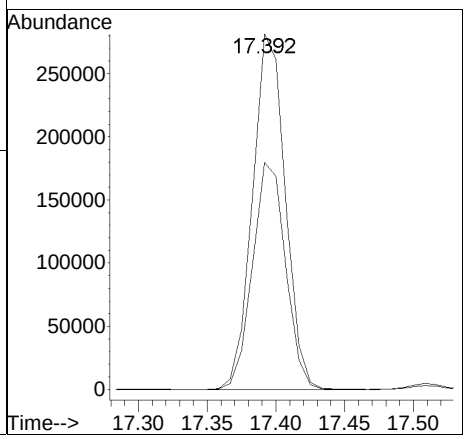


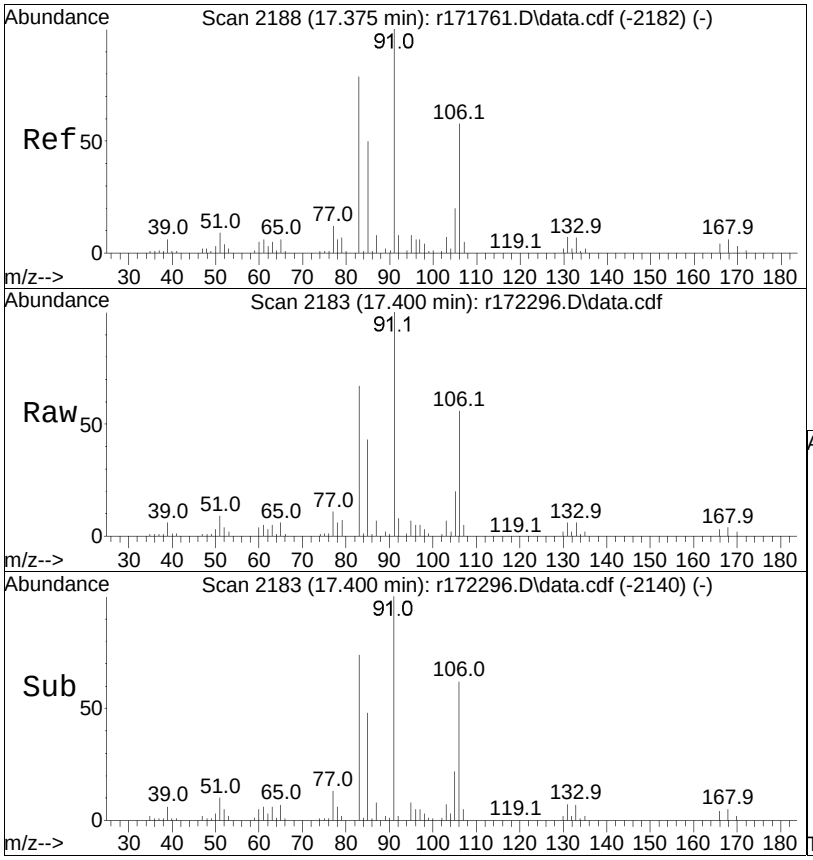


#86
1,1,2,2-tetrachloroethane
Concen: 9.99 ppbV
RT: 17.392 min Scan# 2182
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 83 Resp: 465652

Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.6	75.8

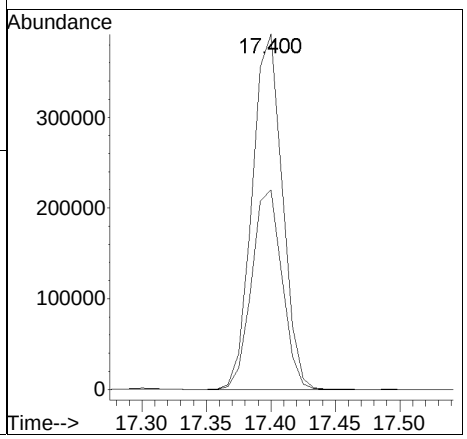


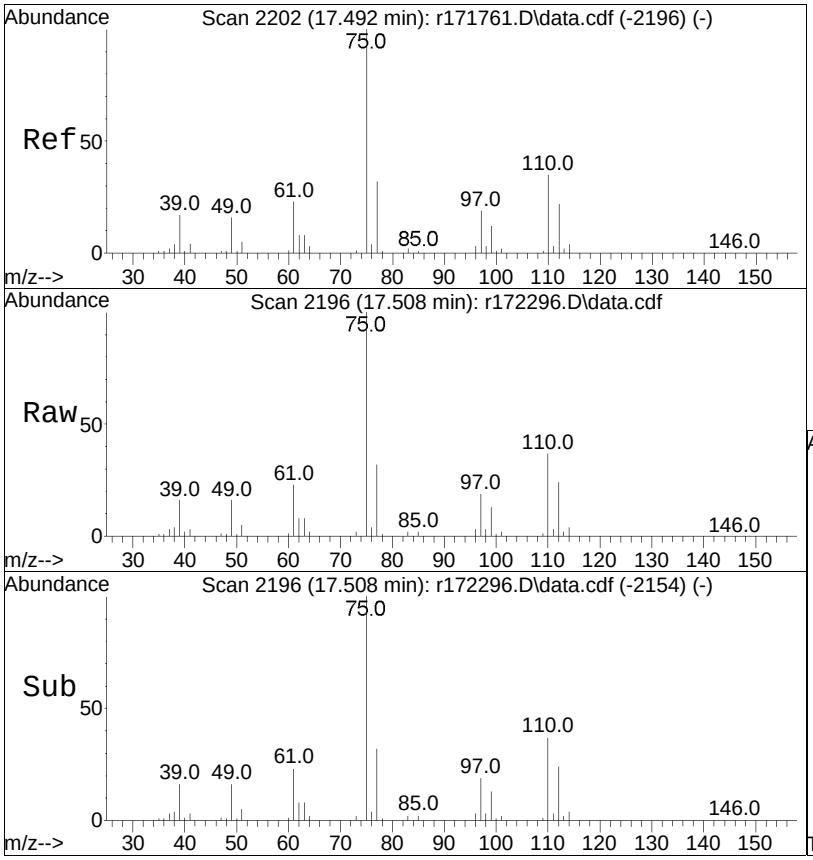


#87
o-xylene
Concen: 10.26 ppbV
RT: 17.400 min Scan# 2183
Delta R.T. 0.025 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 91 Resp: 639596

Ion	Ratio	Lower	Upper
91	100		
106	56.2	46.1	69.1

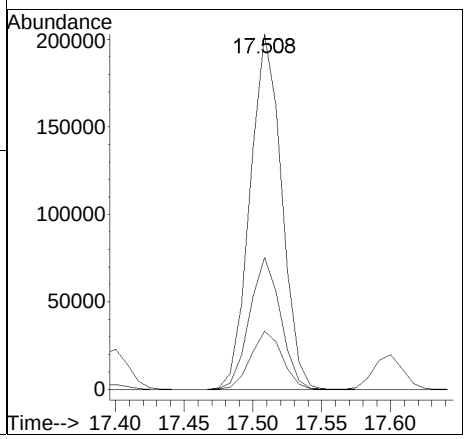


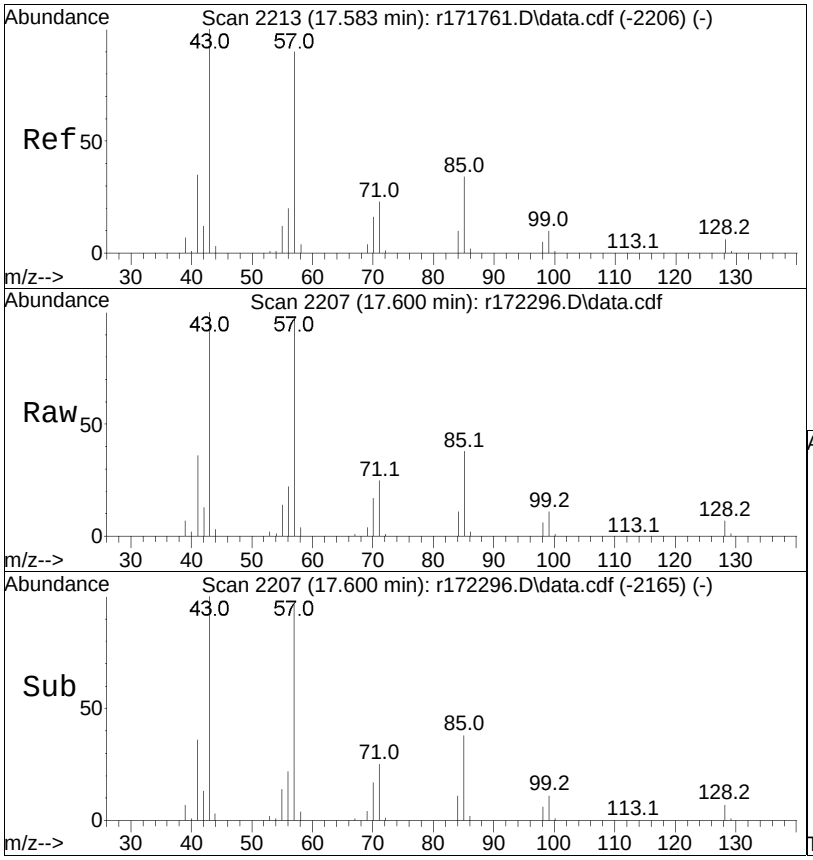


#88
1,2,3-trichloropropane
Concen: 8.91 ppbV
RT: 17.508 min Scan# 2196
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 75 Resp: 324384

Ion	Ratio	Lower	Upper
75	100		
110	37.1	27.8	41.8
39	16.4	13.8	20.8

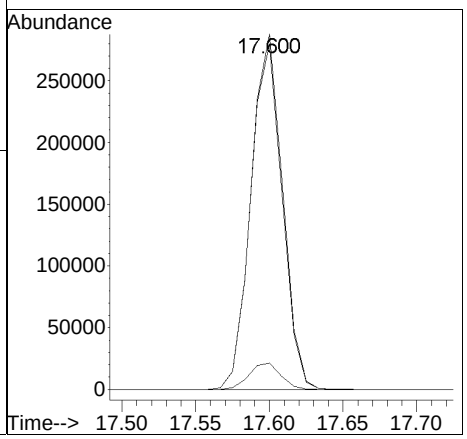


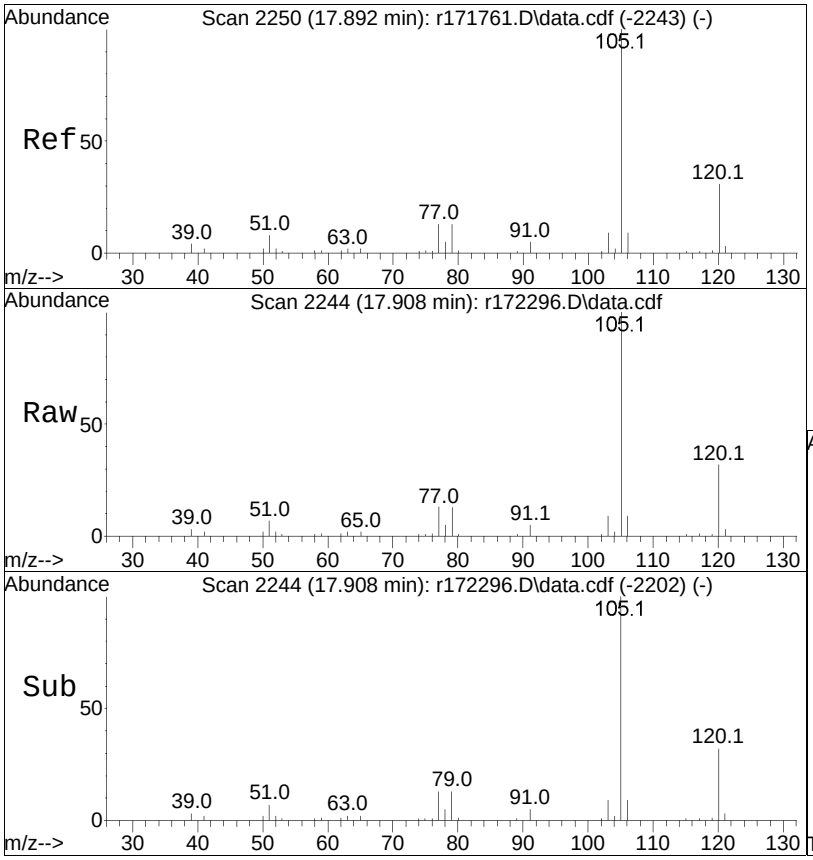


#89
nonane
Concen: 8.48 ppbV
RT: 17.600 min Scan# 2207
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 43 Resp: 427318

Ion	Ratio	Lower	Upper
43	100		
57	97.2	71.8	107.6
128	7.4	5.2	7.8

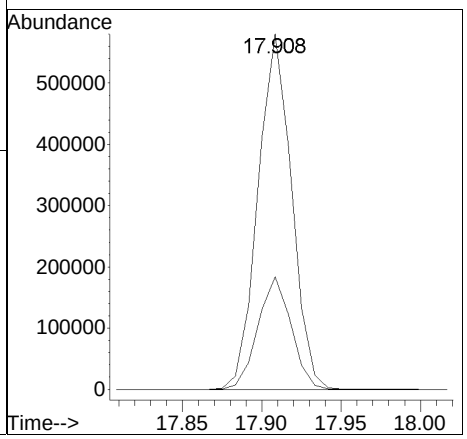


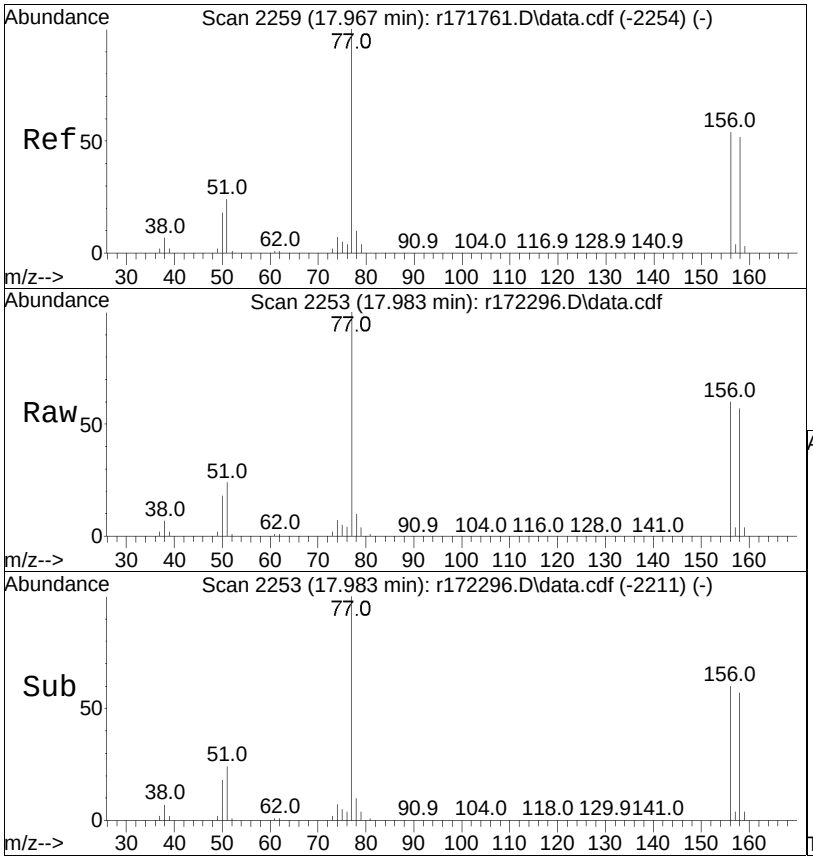


#91
isopropylbenzene
Concen: 9.87 ppbV
RT: 17.908 min Scan# 2244
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:105 Resp: 854963

Ion	Ratio	Lower	Upper
105	100		
120	31.7	25.0	37.6

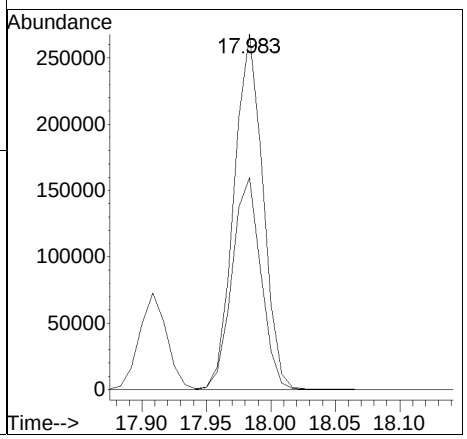


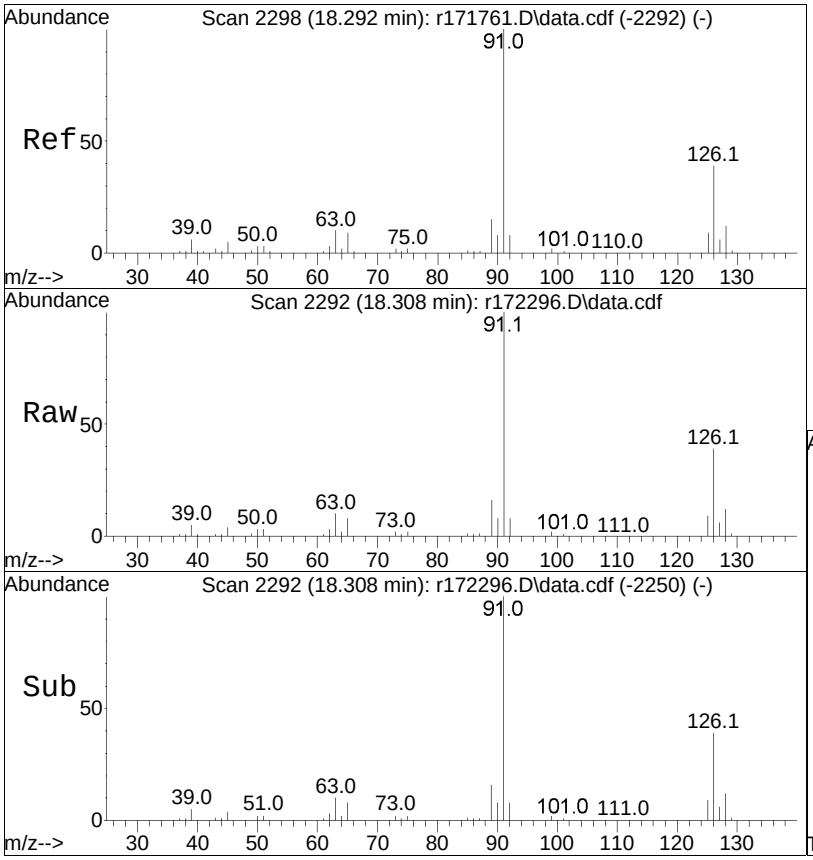


#92
bromobenzene
Concen: 8.94 ppbV
RT: 17.983 min Scan# 2253
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 77 Resp: 418376

Ion	Ratio	Lower	Upper
77	100		
156	59.6	42.9	64.3

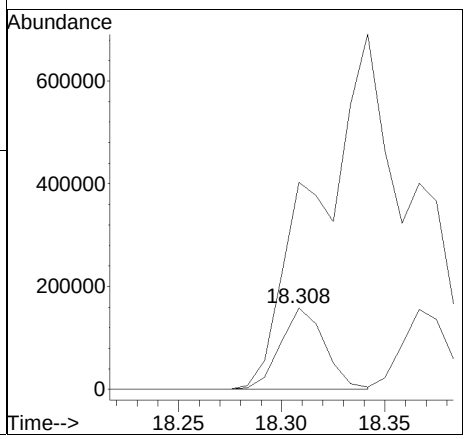


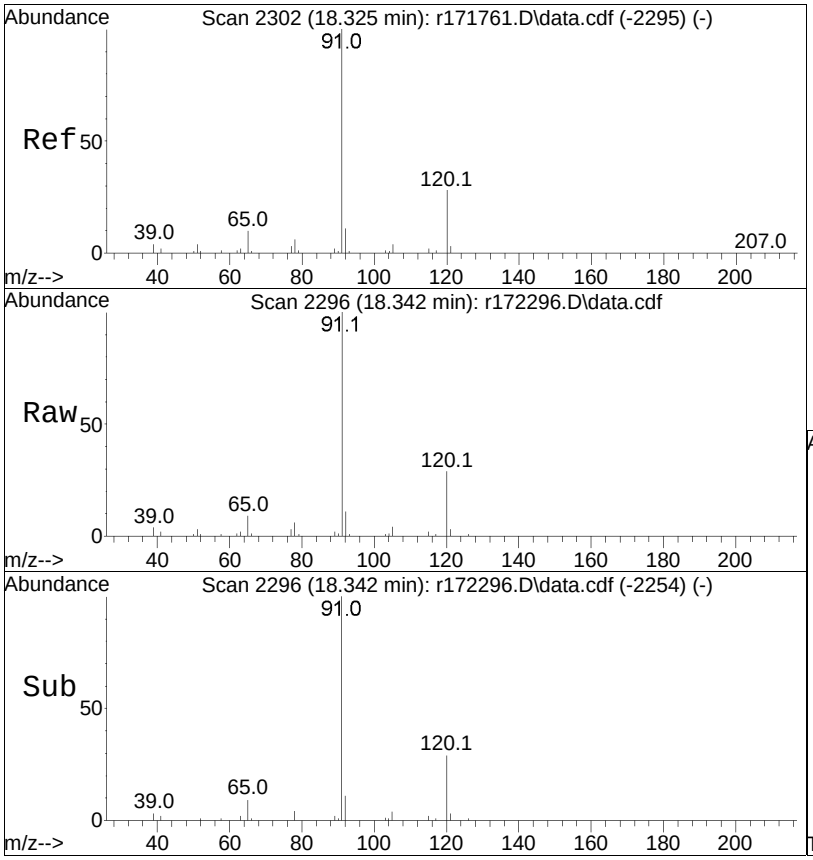


#93
2-chlorotoluene
Concen: 9.36 ppbV
RT: 18.308 min Scan# 2292
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:126 Resp: 236665

Ion	Ratio	Lower	Upper
126	100		
91	254.6	206.7	310.1

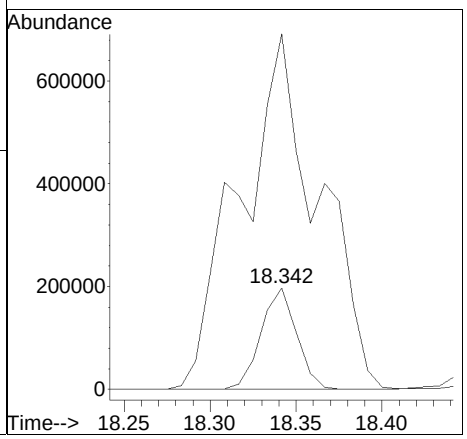


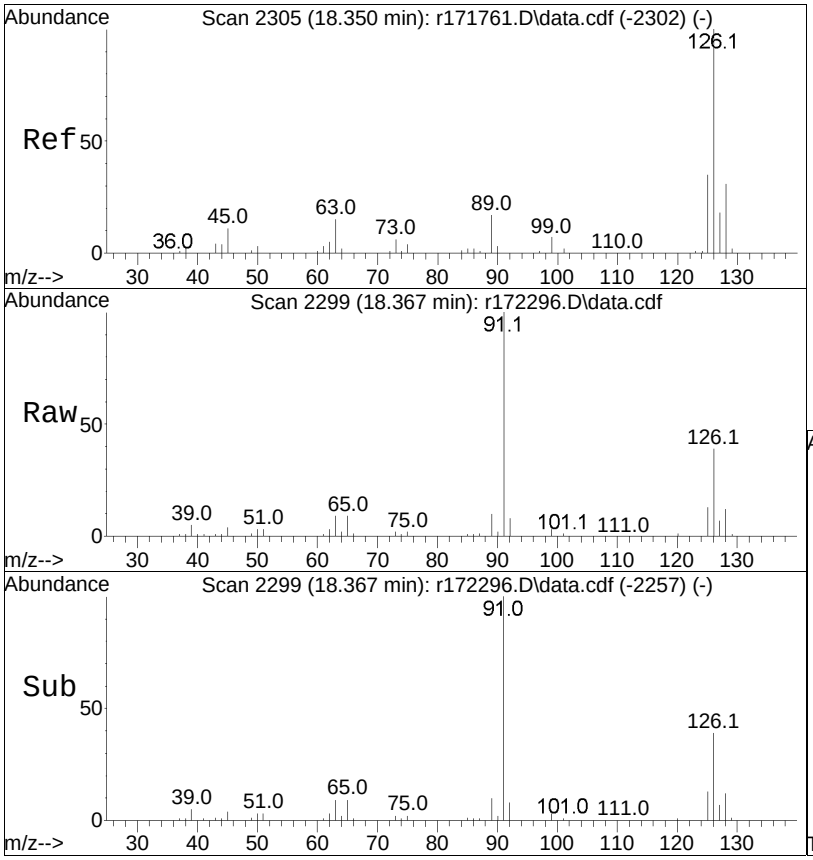


#94
n-propylbenzene
Concen: 9.75 ppbV
RT: 18.342 min Scan# 2296
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:120 Resp: 284557

Ion	Ratio	Lower	Upper
120	100		
91	350.4	288.2	432.4

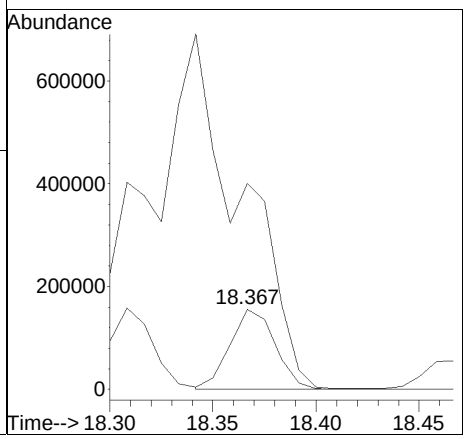


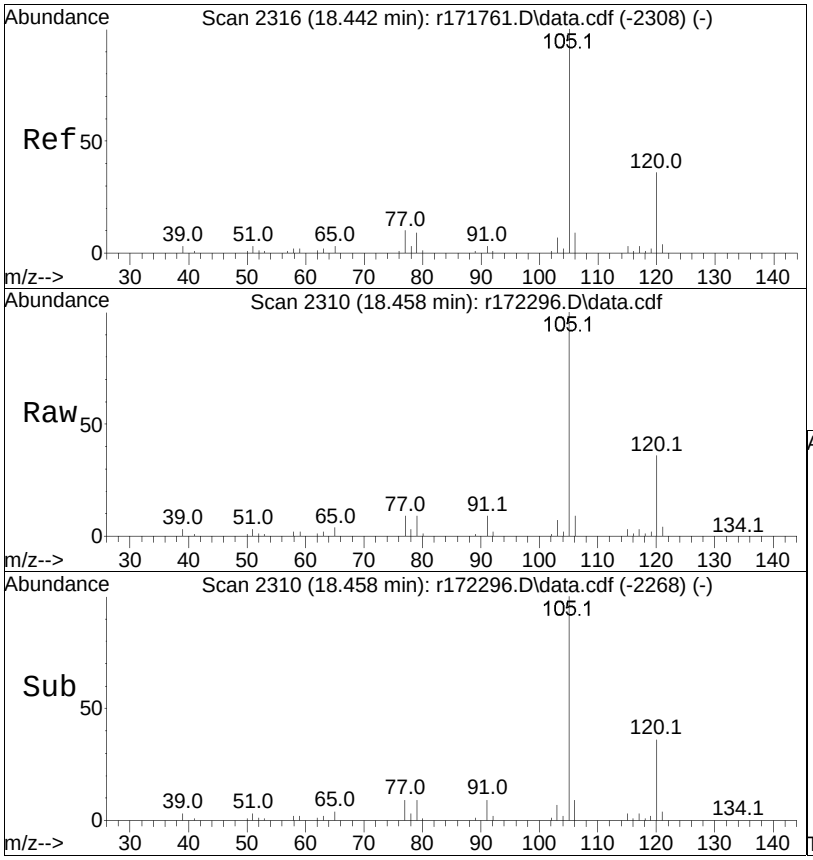


#95
4-chlorotoluene
Concen: 9.40 ppbV
RT: 18.367 min Scan# 2299
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:126 Resp: 237224

Ion	Ratio	Lower	Upper
126	100		
91	257.6	211.0	316.4

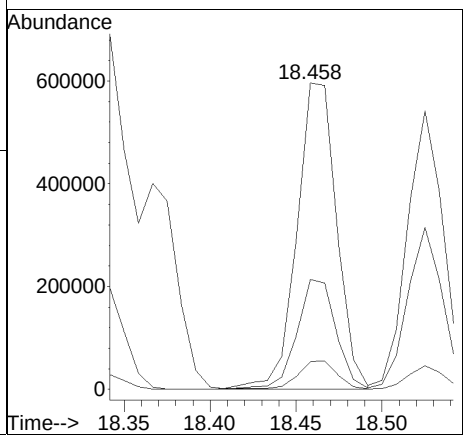


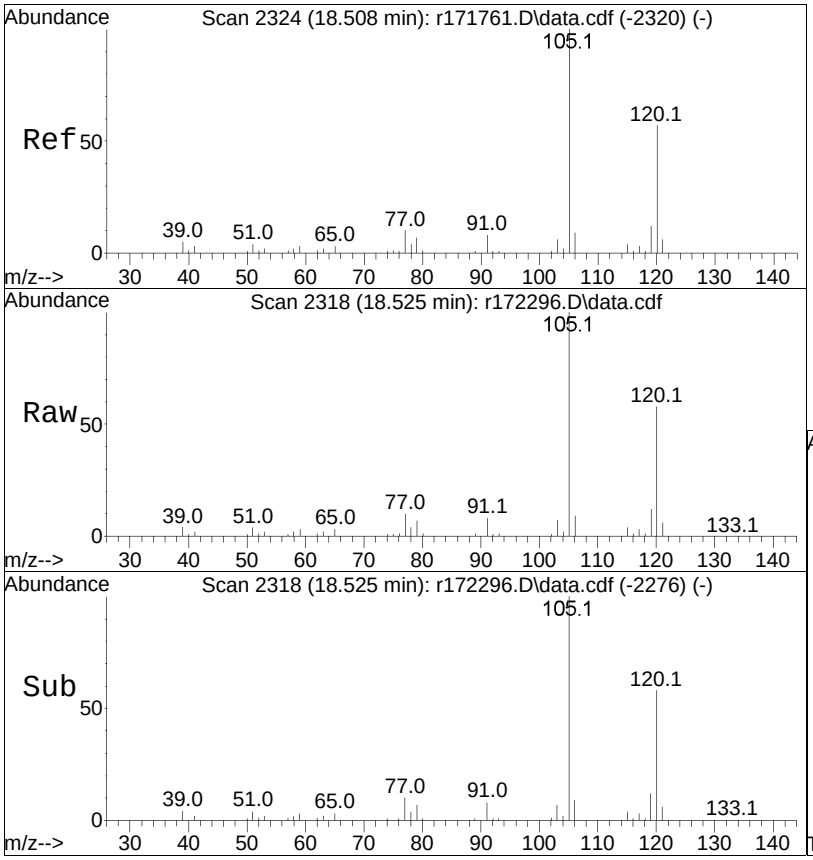


#96
4-ethyl toluene
Concen: 10.67 ppbV
RT: 18.458 min Scan# 2310
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:105 Resp: 960970

Ion	Ratio	Lower	Upper
105	100		
120	35.9	28.6	43.0
91	9.1	7.3	10.9

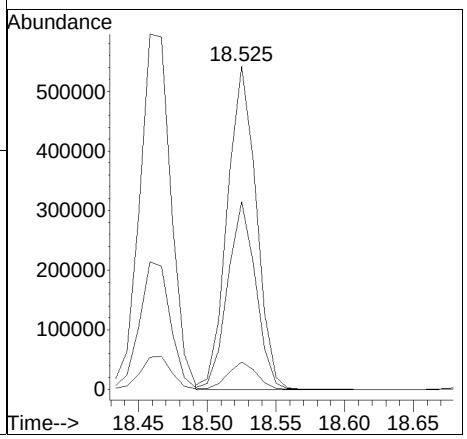


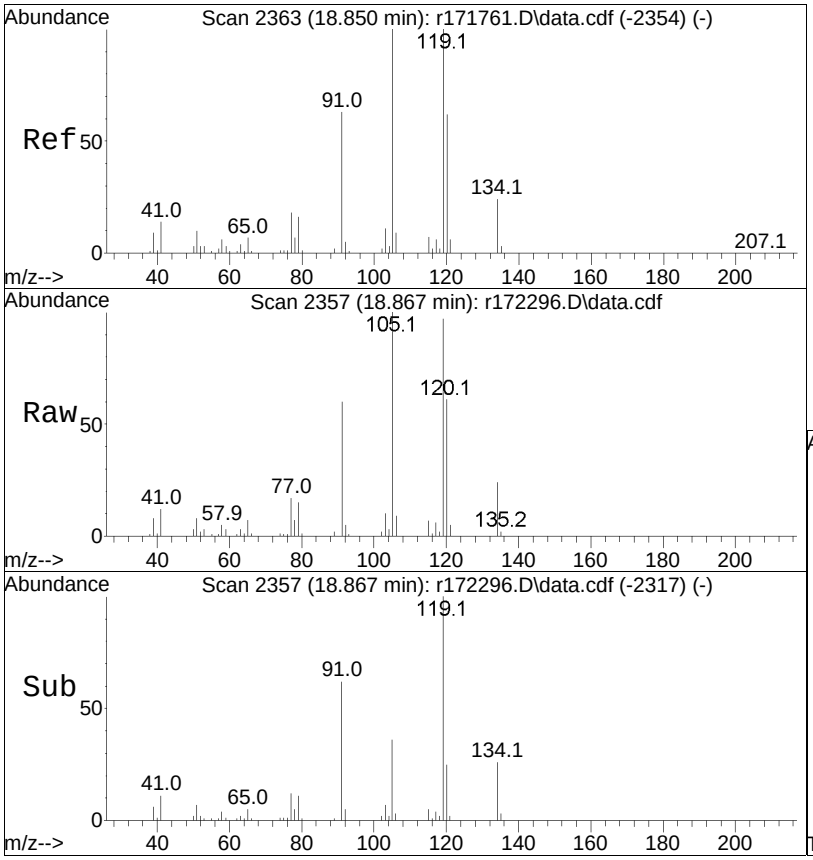


#97
1,3,5-trimethylbenzene
Concen: 11.08 ppbV
RT: 18.525 min Scan# 2318
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:105 Resp: 916118

Ion	Ratio	Lower	Upper
105	100		
120	58.1	45.8	68.6
91	8.5	6.8	10.2

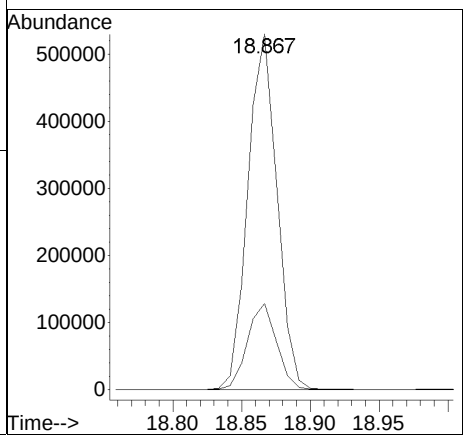


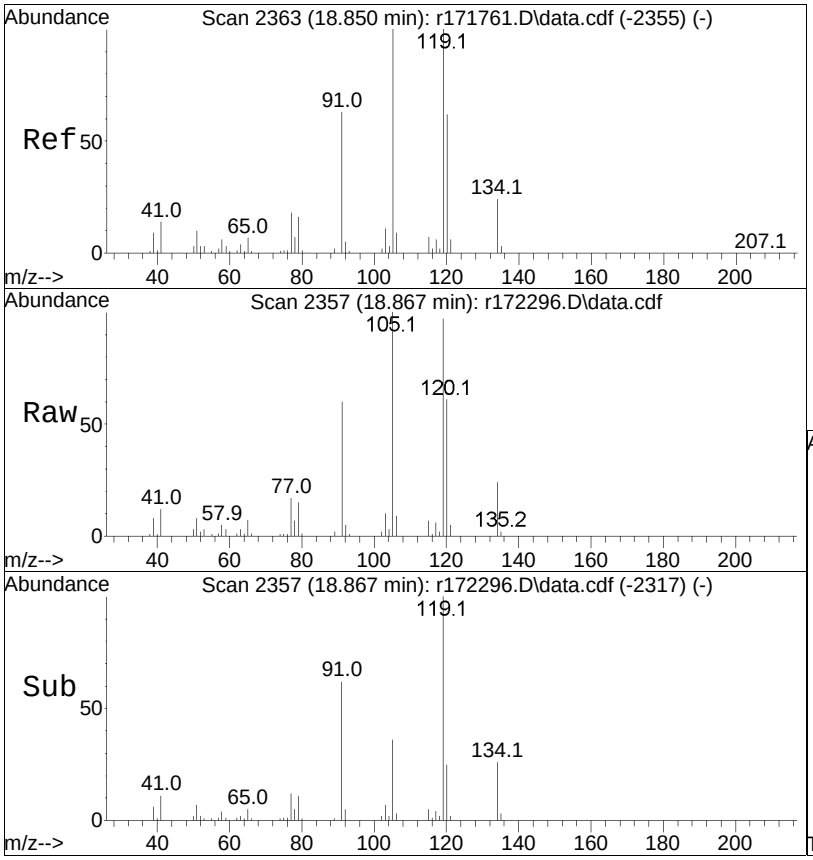


#98
tert-butylbenzene
Concen: 10.26 ppbV
RT: 18.867 min Scan# 2357
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:119 Resp: 780207

Ion	Ratio	Lower	Upper
119	100		
134	24.2	18.9	28.3

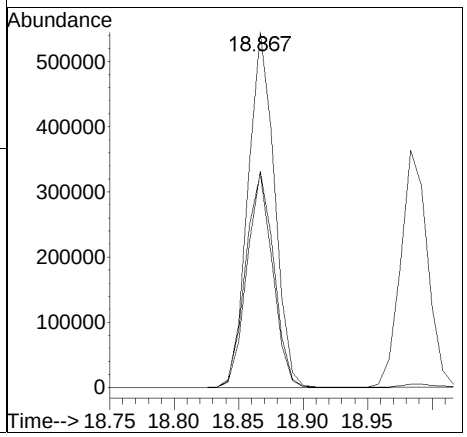


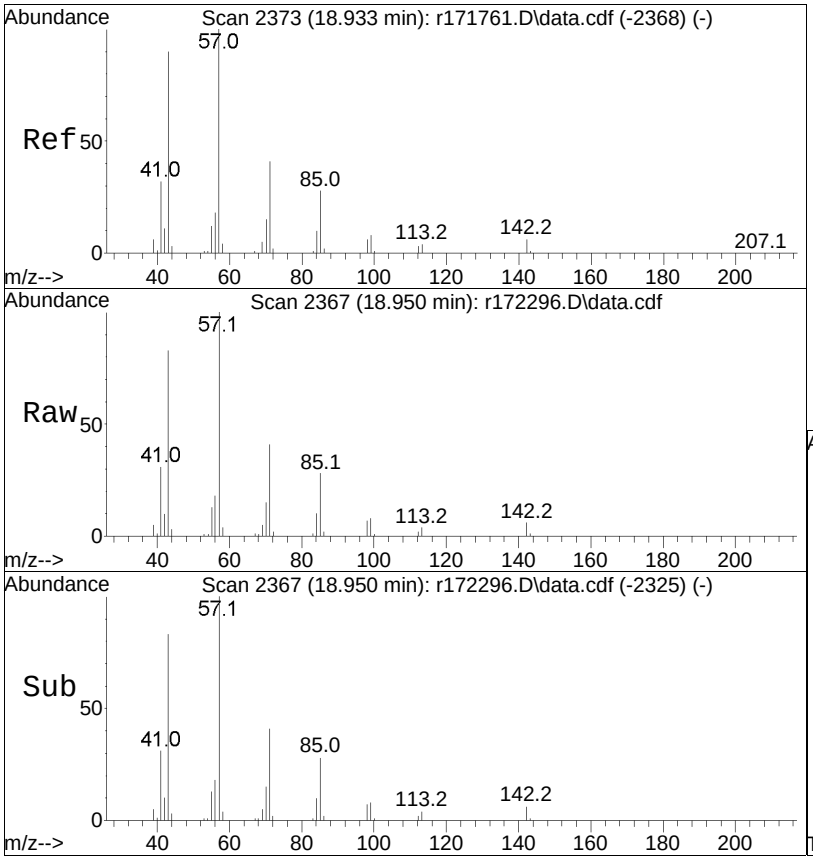


#99
1,2,4-trimethylbenzene
Concen: 10.95 ppbV
RT: 18.867 min Scan# 2357
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:105 Resp: 780970

Ion	Ratio	Lower	Upper
105	100		
120	60.9	49.3	73.9
91	60.3	50.2	75.4

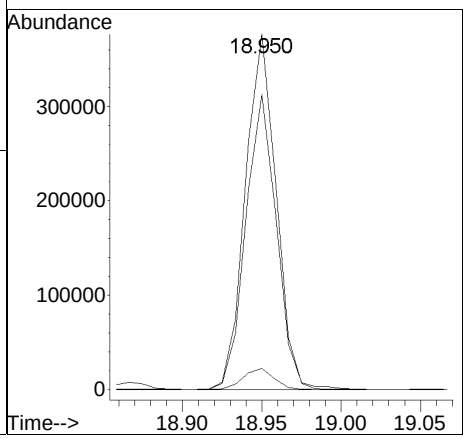


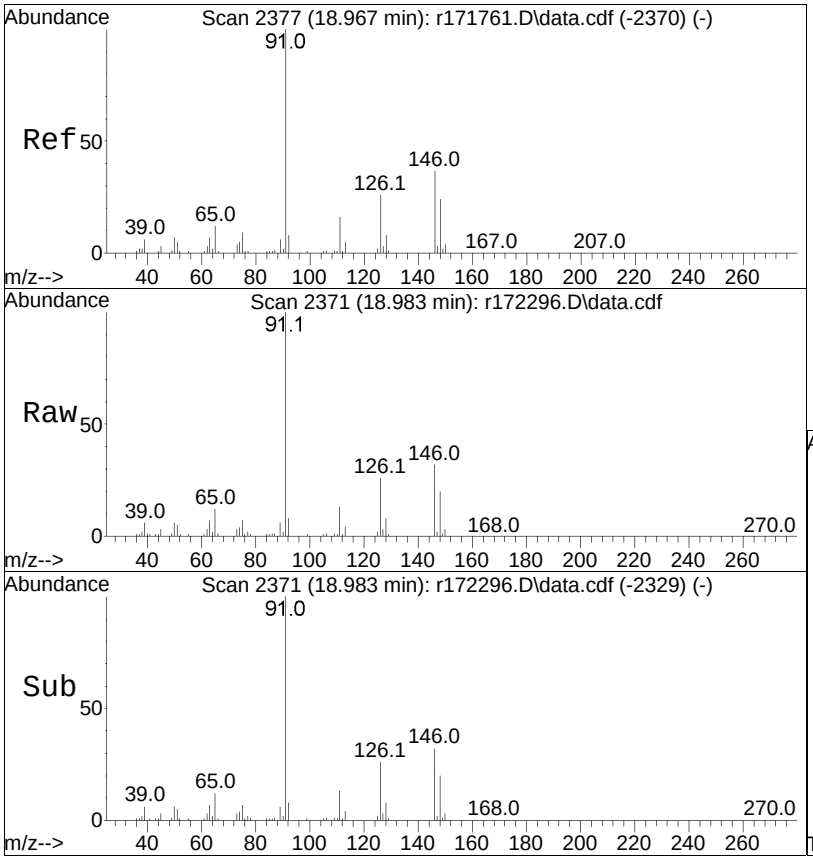


#100
decane
Concen: 9.61 ppbV
RT: 18.950 min Scan# 2367
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 57 Resp: 506661

Ion	Ratio	Lower	Upper
57	100		
43	83.0	71.7	107.5
142	5.9	4.6	6.8

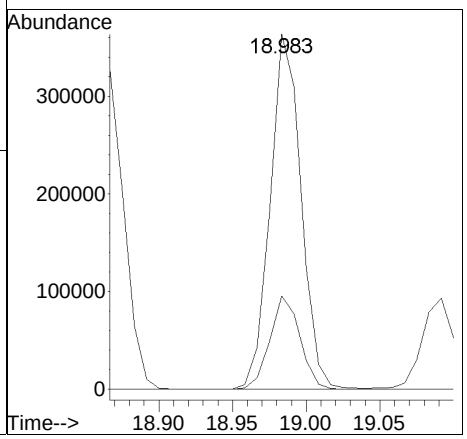


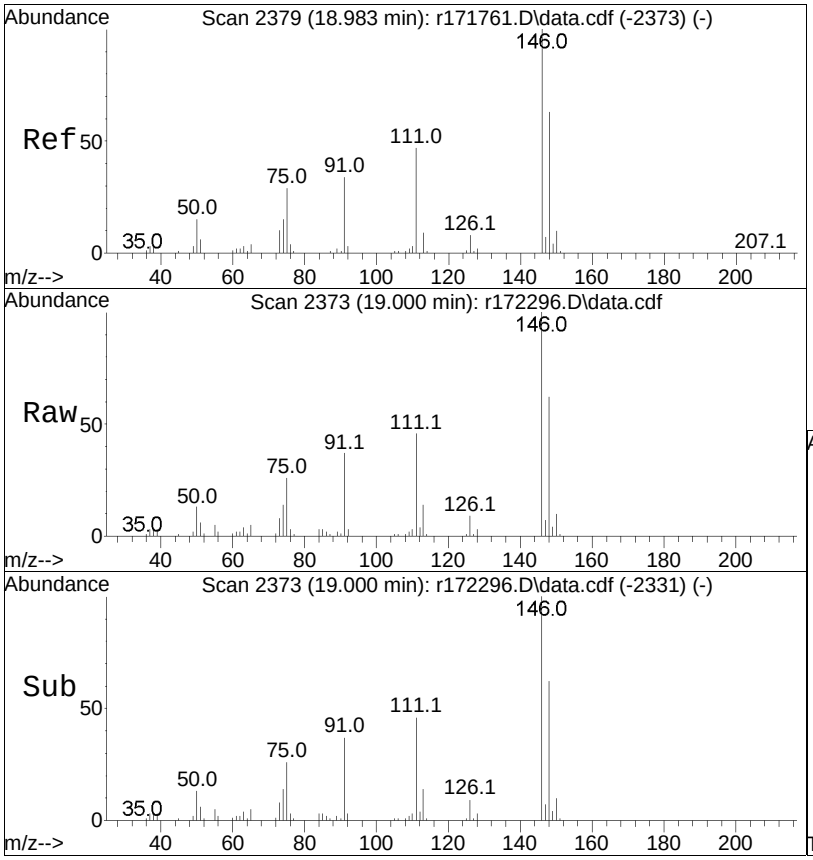


#101
Benzyl Chloride
Concen: 11.52 ppbV
RT: 18.983 min Scan# 2371
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 91 Resp: 530657

Ion	Ratio	Lower	Upper
91	100		
126	26.3	21.1	31.7

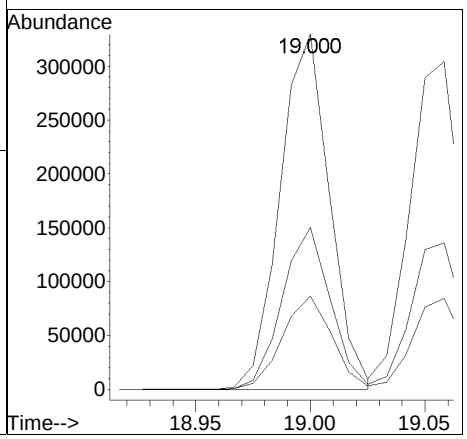


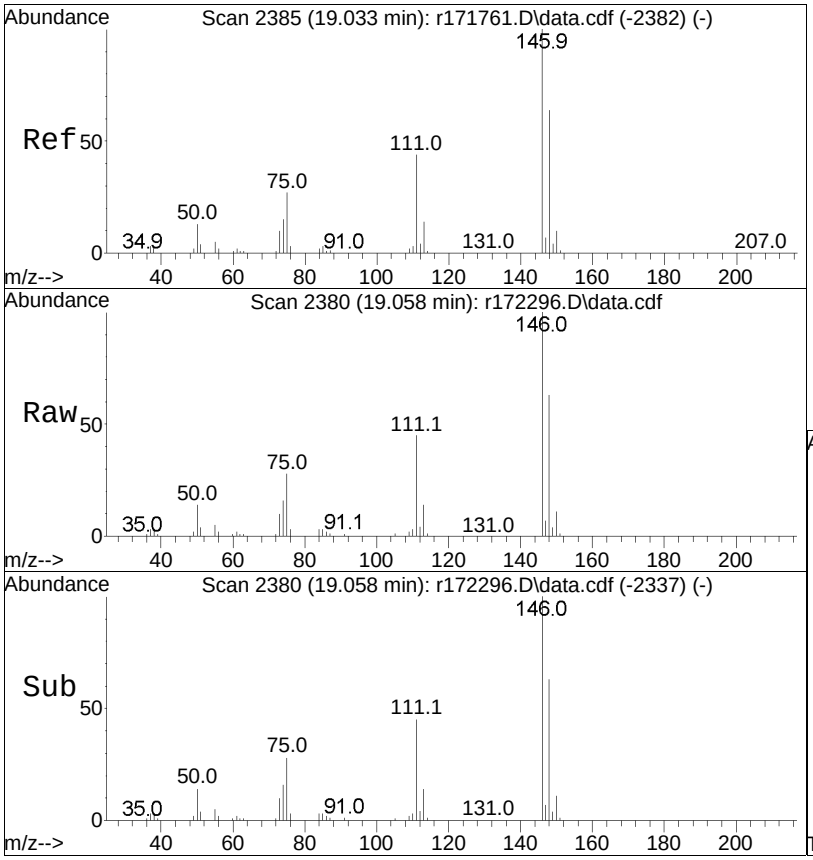


#102
1,3-dichlorobenzene
Concen: 10.64 ppbV
RT: 19.000 min Scan# 2373
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:146 Resp: 495565

Ion	Ratio	Lower	Upper
146	100		
111	45.6	37.7	56.5
75	26.2	23.0	34.4

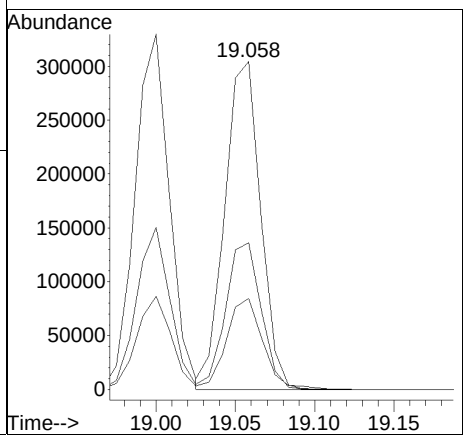


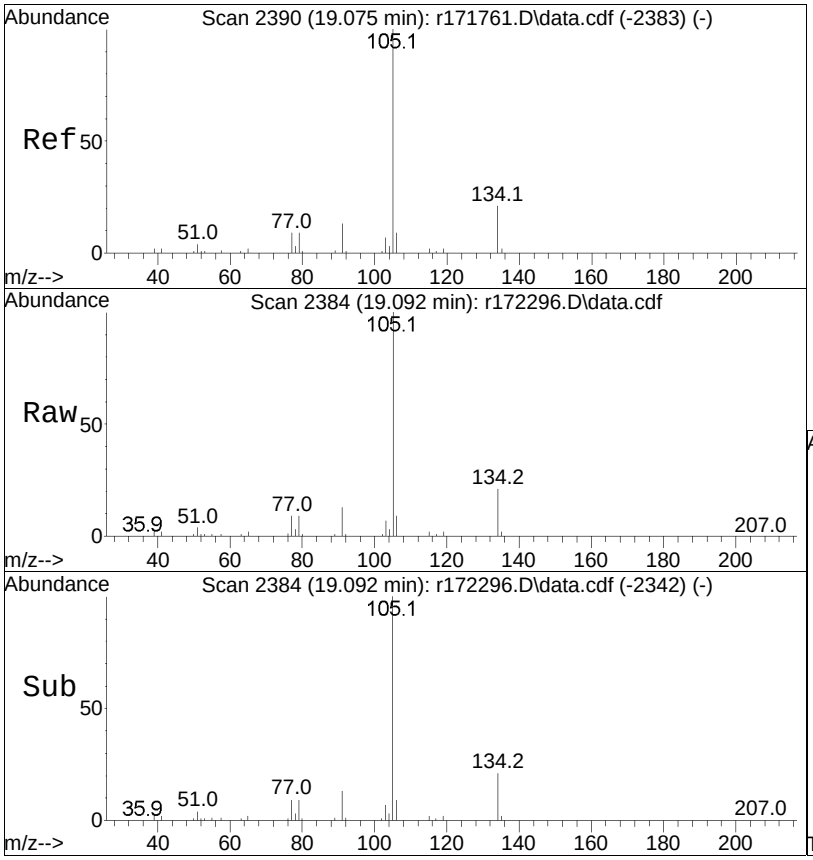


#103
1,4-dichlorobenzene
Concen: 10.33 ppbV
RT: 19.058 min Scan# 2380
Delta R.T. 0.025 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:146 Resp: 478324

Ion	Ratio	Lower	Upper
146	100		
111	44.7	34.9	52.3
75	27.7	21.5	32.3

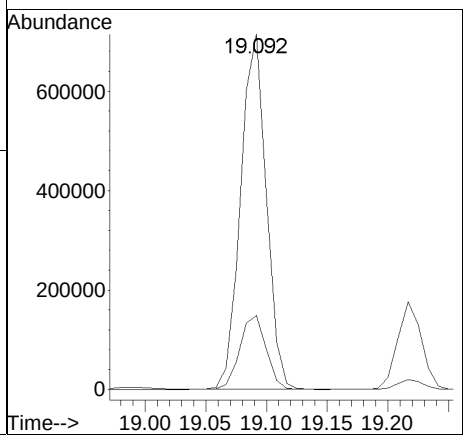


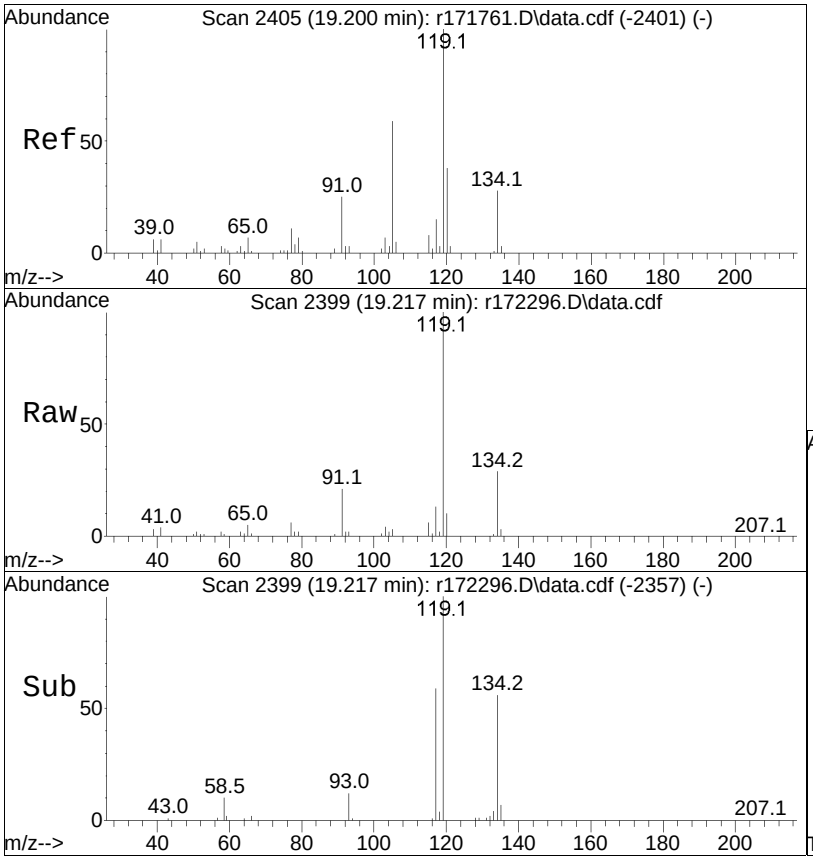


#104
sec-butylbenzene
Concen: 9.84 ppbV
RT: 19.092 min Scan# 2384
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:105 Resp: 1049305

Ion	Ratio	Lower	Upper
105	100		
134	20.8	16.7	25.1

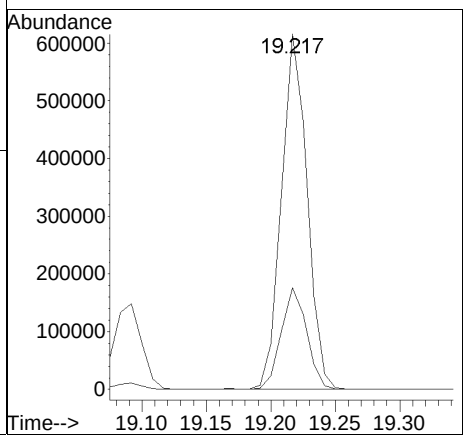


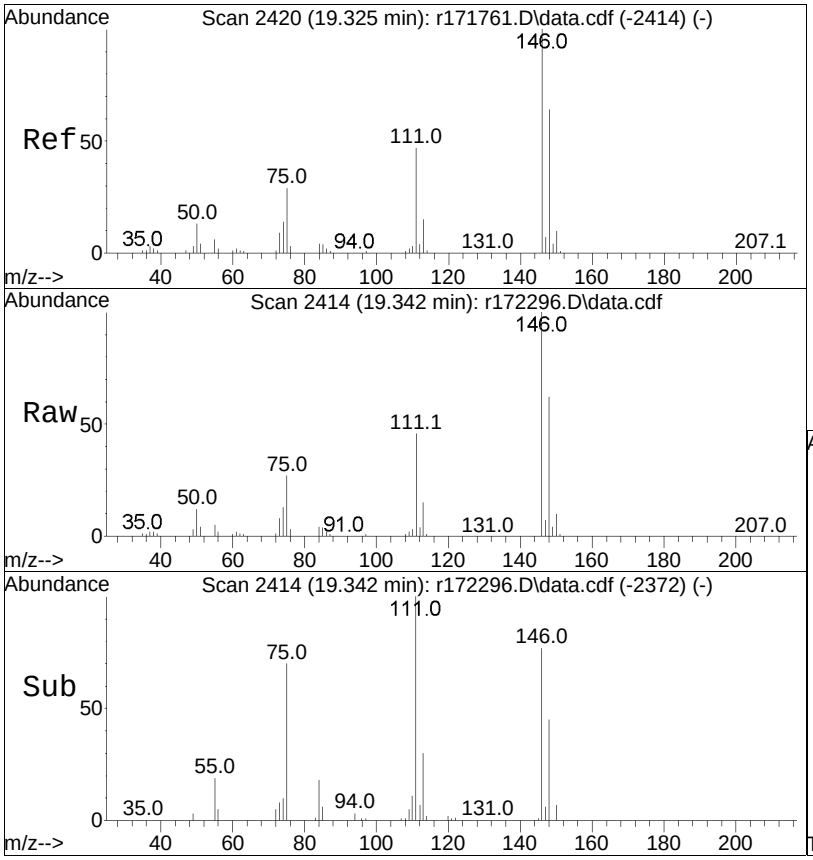


#106
p-isopropyltoluene
Concen: 9.60 ppbV
RT: 19.217 min Scan# 2399
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:119 Resp: 853870

Ion	Ratio	Lower	Upper
119	100		
134	28.6	22.5	33.7

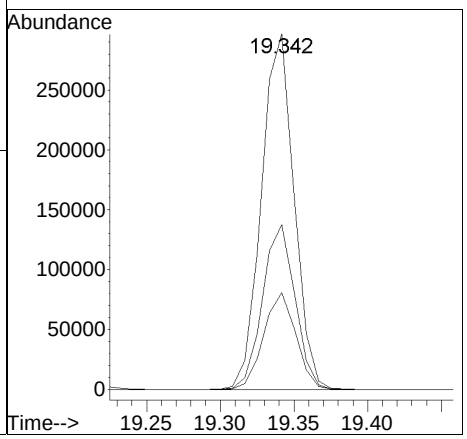


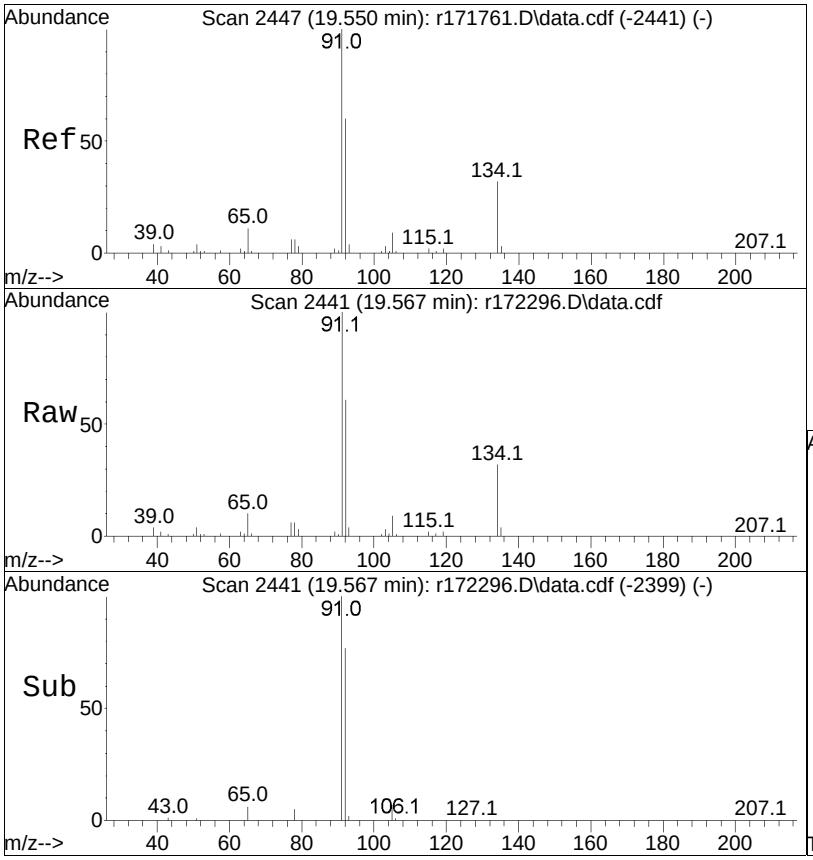


#107
1,2-dichlorobenzene
Concen: 10.49 ppbV
RT: 19.342 min Scan# 2414
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:146 Resp: 456613

Ion	Ratio	Lower	Upper
146	100		
111	46.4	37.9	56.9
75	27.2	23.0	34.6

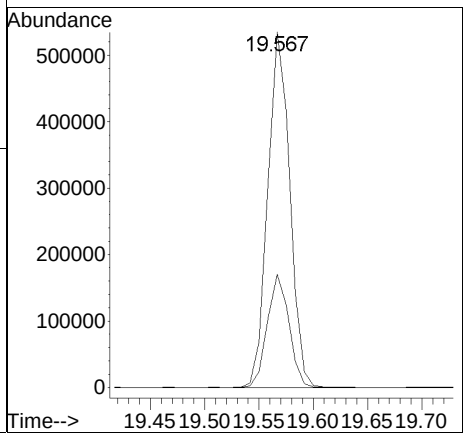


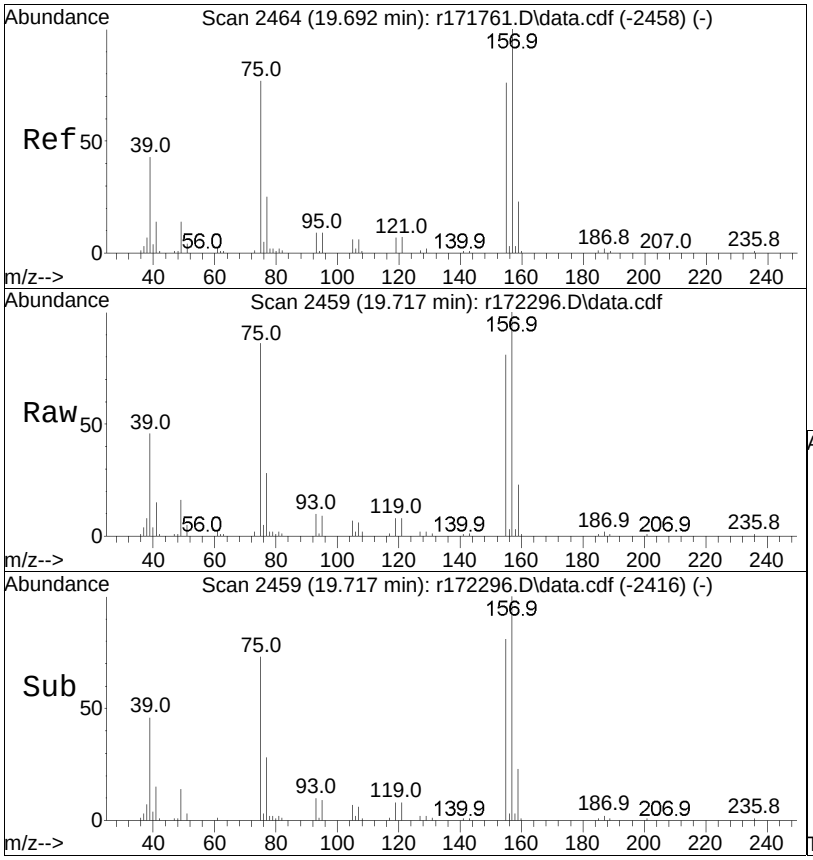


#108
n-butylbenzene
Concen: 10.42 ppbV
RT: 19.567 min Scan# 2441
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 91 Resp: 753848

Ion	Ratio	Lower	Upper
91	100		
134	31.8	25.7	38.5

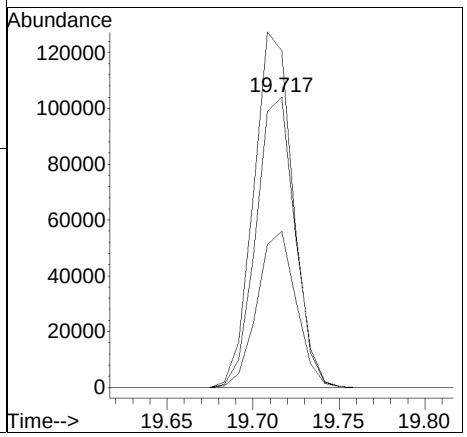


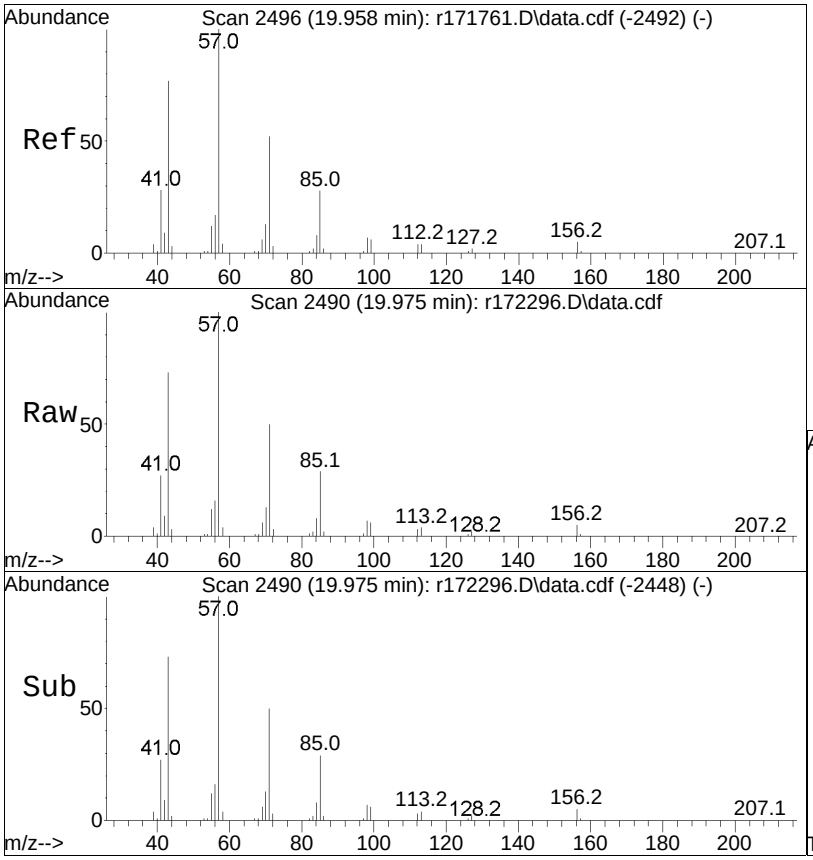


#111
1,2-dibromo-3-chloropropane
Concen: 9.73 ppbV
RT: 19.717 min Scan# 2459
Delta R.T. 0.025 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 75 Resp: 164594

Ion	Ratio	Lower	Upper
75	100		
157	115.9	103.8	155.8
39	53.9	44.6	67.0

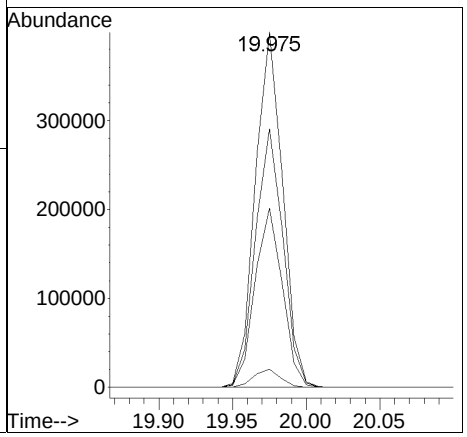


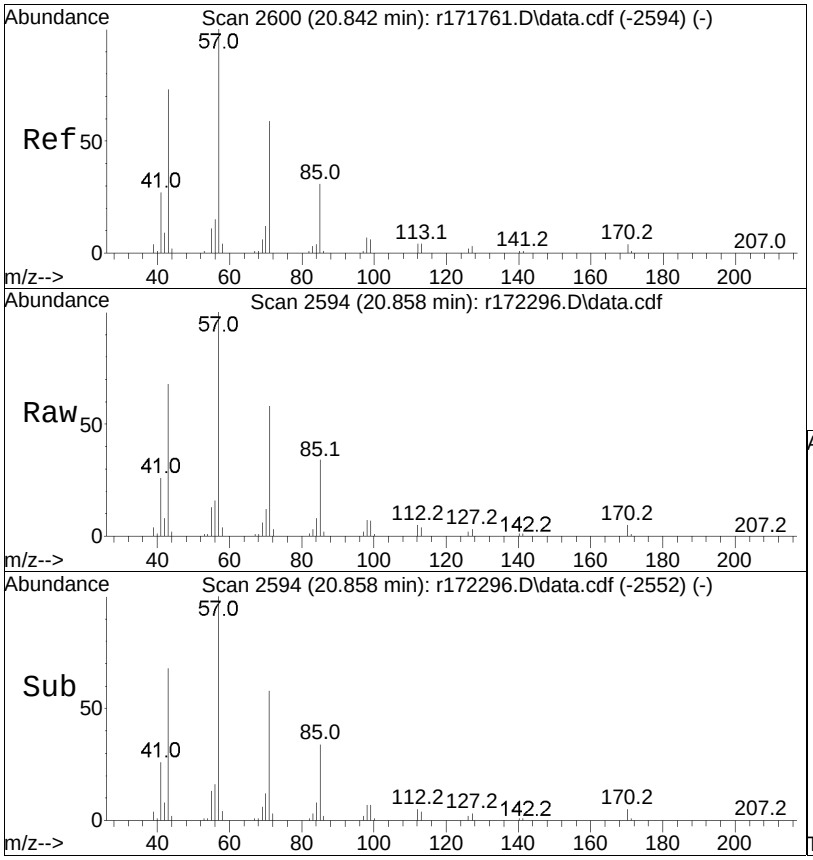


#112
undecane
Concen: 9.74 ppbV
RT: 19.975 min Scan# 2490
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 57 Resp: 518771

Ion	Ratio	Lower	Upper
57	100		
43	72.8	61.9	92.9
71	50.5	41.3	61.9
156	5.1	3.9	5.9

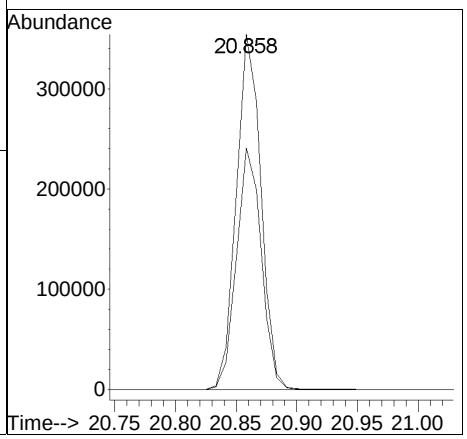


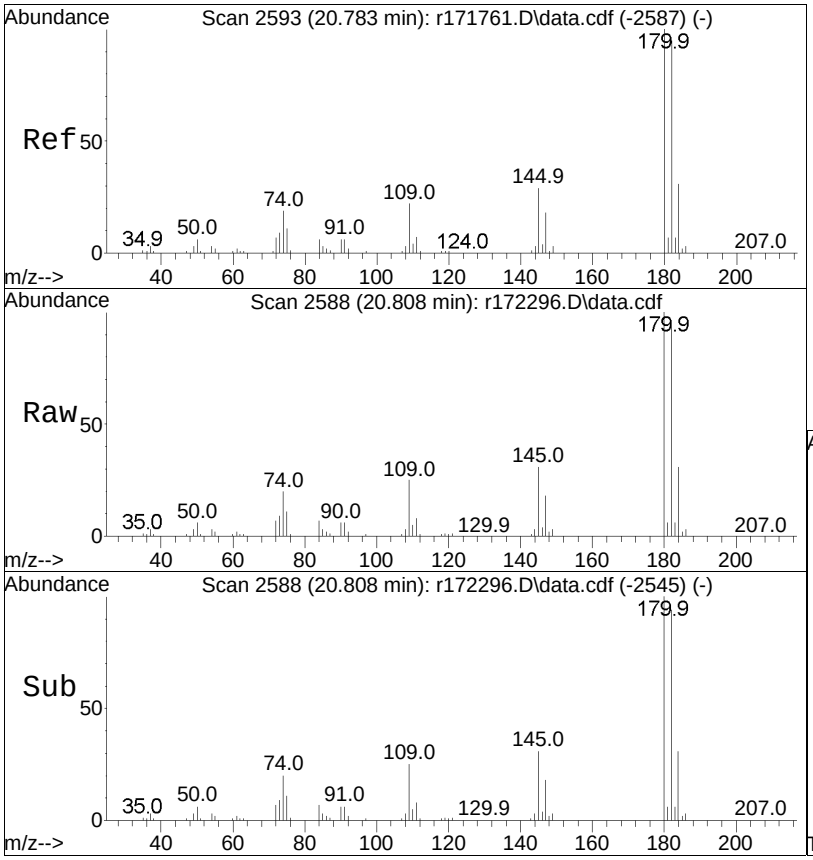


#114
dodecane
Concen: 9.79 ppbV
RT: 20.858 min Scan# 2594
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion: 57 Resp: 500471

Ion	Ratio	Lower	Upper
57	100		
43	68.0	58.5	87.7

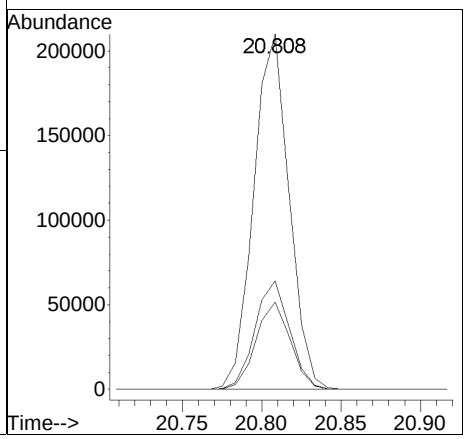


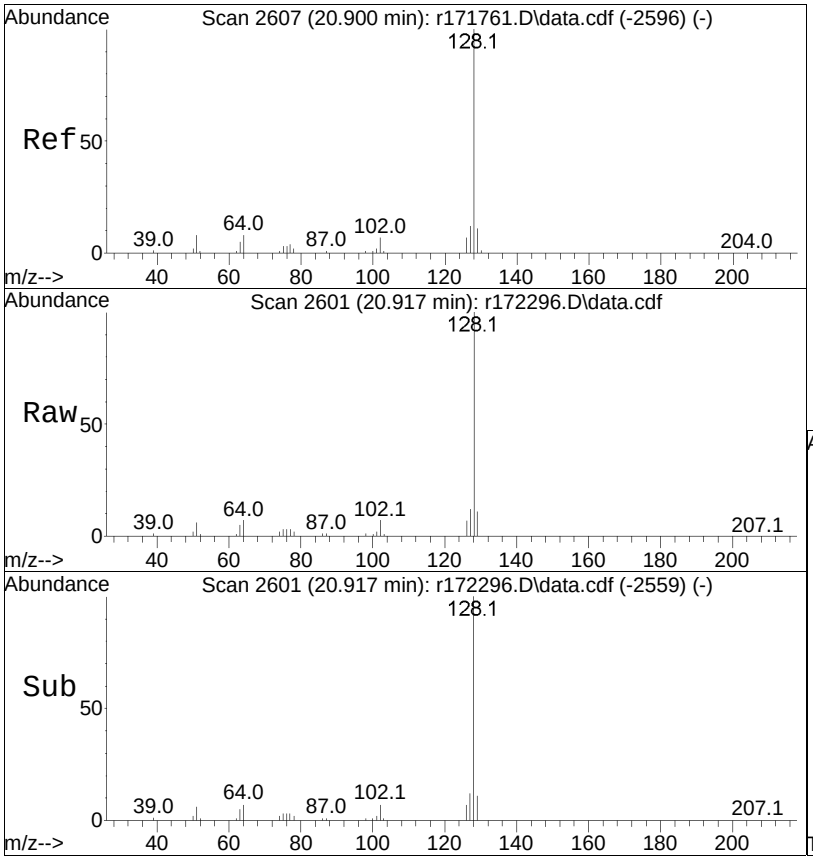


#115
1,2,4-trichlorobenzene
Concen: 10.58 ppbV
RT: 20.808 min Scan# 2588
Delta R.T. 0.025 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:180 Resp: 326105

Ion	Ratio	Lower	Upper
180	100		
145	30.5	23.3	34.9
109	24.6	18.0	27.0

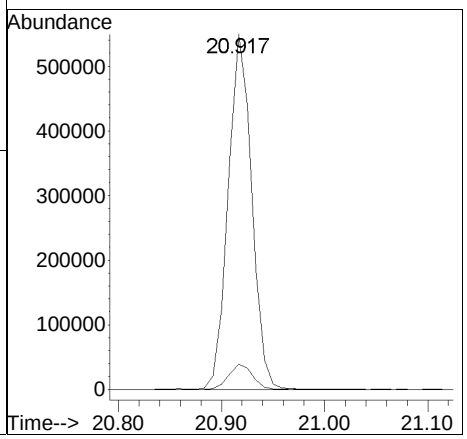


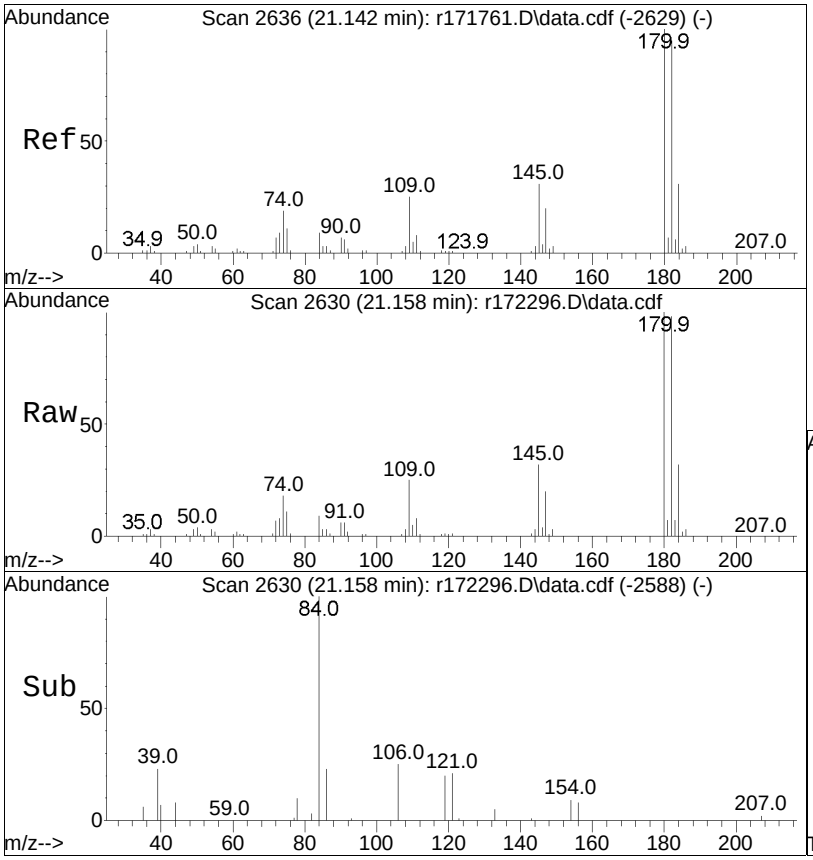


#116
naphthalene
Concen: 10.21 ppbV
RT: 20.917 min Scan# 2601
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:128 Resp: 872540

Ion	Ratio	Lower	Upper
128	100		
102	7.1	5.8	8.8

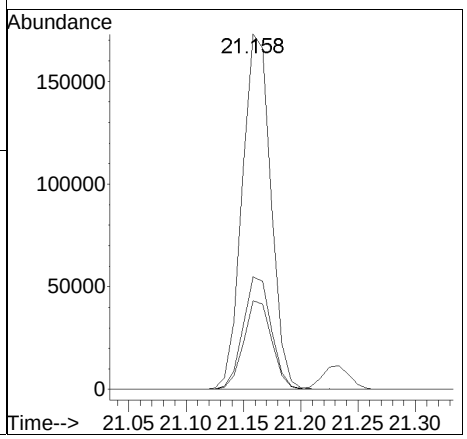


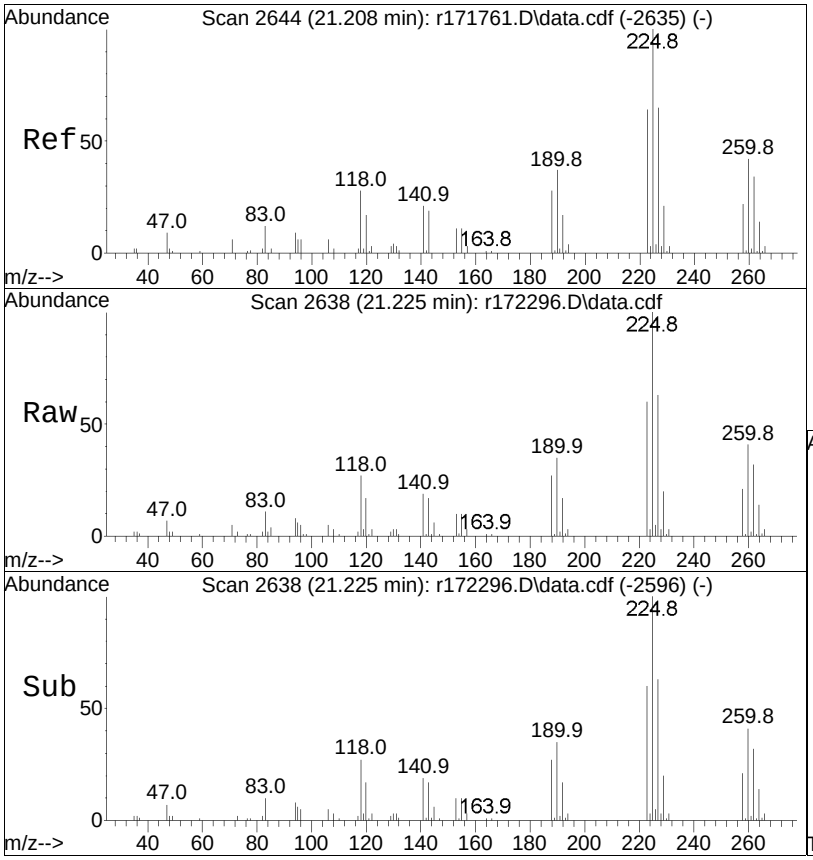


#117
1,2,3-trichlorobenzene
Concen: 9.85 ppbV
RT: 21.158 min Scan# 2630
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:180 Resp: 301257

Ion	Ratio	Lower	Upper
180	100		
145	31.7	25.1	37.7
109	24.9	19.6	29.4

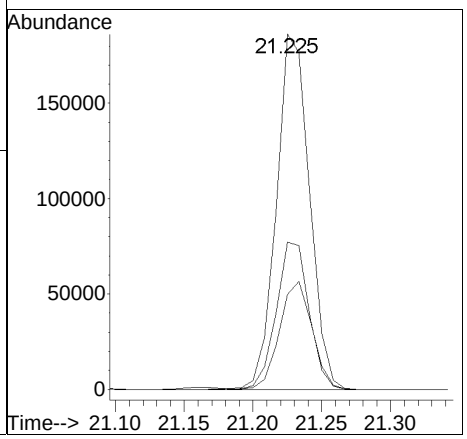




#119
hexachlorobutadiene
Concen: 10.64 ppbV
RT: 21.225 min Scan# 2638
Delta R.T. 0.017 min
Lab File: r172296.D
Acq: 16 Jun 2018 3:23 PM

Tgt Ion:225 Resp: 310993

Ion	Ratio	Lower	Upper
225	100		
260	41.4	33.8	50.6
118	26.7	22.4	33.6

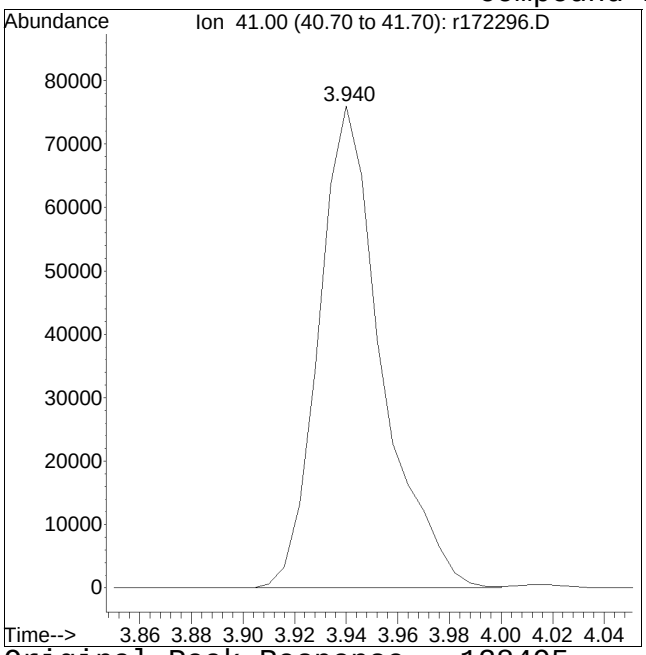


Manual Integration/Negative Proof Report

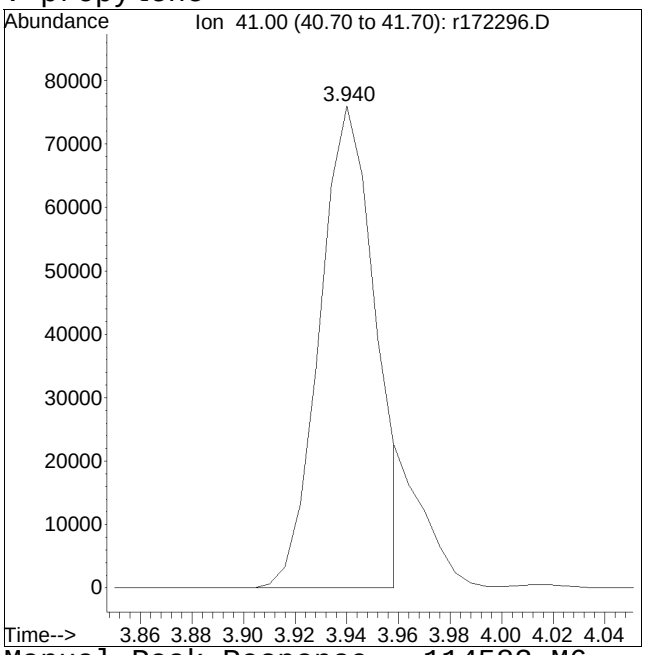
Data Path : O:\Forensics\Data\Airlab17\
Data File : r172296.D
Date Inj'd : 6/16/2018 3:23 PM
Sample : WG1126781-3,3,250,250

QMethod : TALL180521.M
Operator : AIRLAB17:MB
Instrument :
Quant Date : 6/16/2018 3:44 pm

Compound #3: propylene



Original Peak Response = 128495



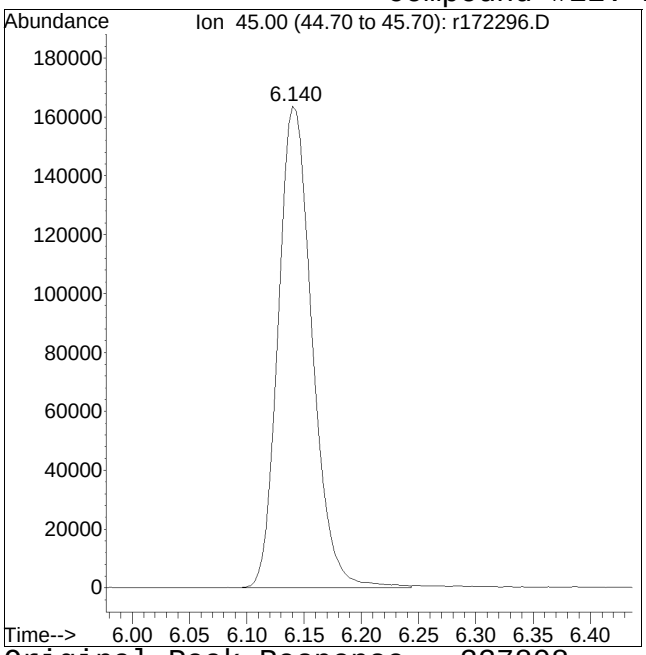
Manual Peak Response = 114583 M6

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

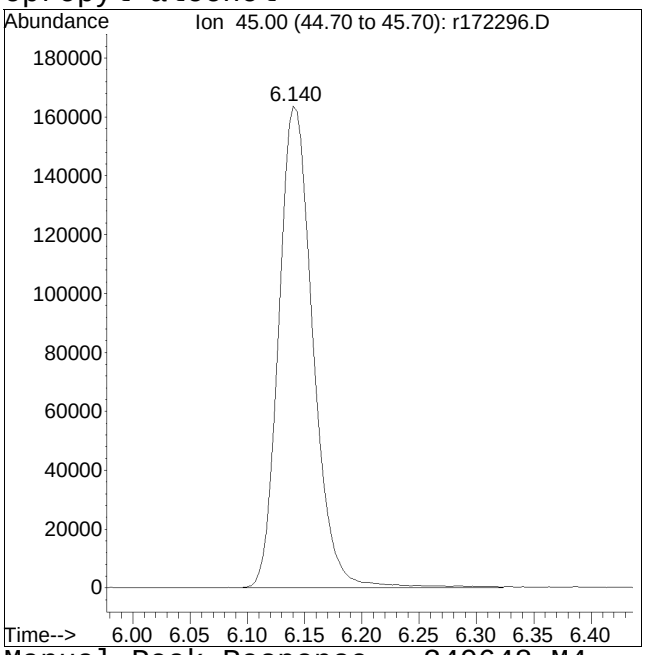
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r172296.D Operator : AIRLAB17:MB
Date Inj'd : 6/16/2018 3:23 PM Instrument :
Sample : WG1126781-3,3,250,250 Quant Date : 6/16/2018 3:44 pm

Compound #22: isopropyl alcohol



Original Peak Response = 337808



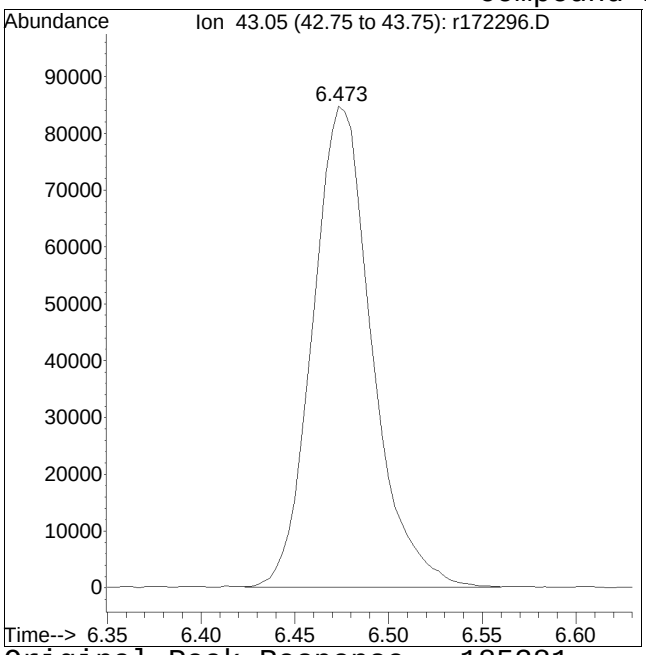
Manual Peak Response = 340648 M4

M4 = Poor automated baseline construction.

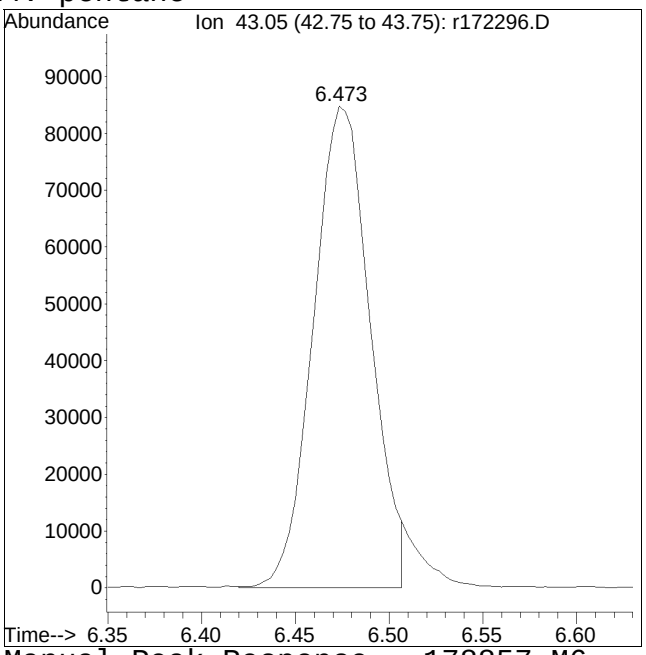
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r172296.D Operator : AIRLAB17:MB
Date Inj'd : 6/16/2018 3:23 PM Instrument :
Sample : WG1126781-3,3,250,250 Quant Date : 6/16/2018 3:44 pm

Compound #24: pentane



Original Peak Response = 185381



Manual Peak Response = 178857 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172313.D
Acq On : 17 Jun 2018 3:30 AM
Operator : AIRLAB17:MB
Sample : WG1126781-5,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 21:38:39 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180616T\r172296.D
Sub List : TO15-NY - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.450	49	171477	10.000	ppbV	0.02
Standard Area = 188951			Recovery = 90.75%			
43) 1,4-difluorobenzene	11.687	114	549016	10.000	ppbV	0.02
Standard Area = 604388			Recovery = 90.84%			
67) chlorobenzene-D5	16.417	54	80988	10.000	ppbV	0.02
Standard Area = 80538			Recovery = 100.56%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	3.970	85	12437	0.585	ppbV	98
6) chloromethane	4.150	50	752	0.068	ppbV	93
7) Freon-114	4.276		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	4.612		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.307	31	4138	0.527	ppbV #	49
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.847	43	55583	3.778	ppbV #	77
21) trichlorofluoromethane	6.010	101	4419	0.233	ppbV	86
22) isopropyl alcohol	6.177	45	1406M3	0.079	ppbV	
26) 1,1-dichloroethene	6.750		0	N.D.		
27) tertiary butyl alcohol	6.882	59	7433	0.454	ppbV #	82
28) methylene chloride	6.930	49	1378	0.102	ppbV	94
29) 3-chloropropene	6.984		0	N.D.		
30) carbon disulfide	7.212	76	43342	1.158	ppbV #	1
31) Freon 113	7.254	101	1359	0.057	ppbV	91
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.383		0	N.D.		
36) 2-butanone	8.775	43	21235	0.701	ppbV #	93
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	9.567		0	N.D.		
39) chloroform	9.608	83	32503	1.373	ppbV	95
40) Tetrahydrofuran	10.067	42	7158M6	0.413	ppbV	
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.533	57	55316	2.099	ppbV #	43
48) 1,1,1-trichloroethane	10.733		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172313.D
Acq On : 17 Jun 2018 3:30 AM
Operator : AIRLAB17:MB
Sample : WG1126781-5,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 21:38:39 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2018\180616T\r172296.D
Sub List : TO15-NY - .

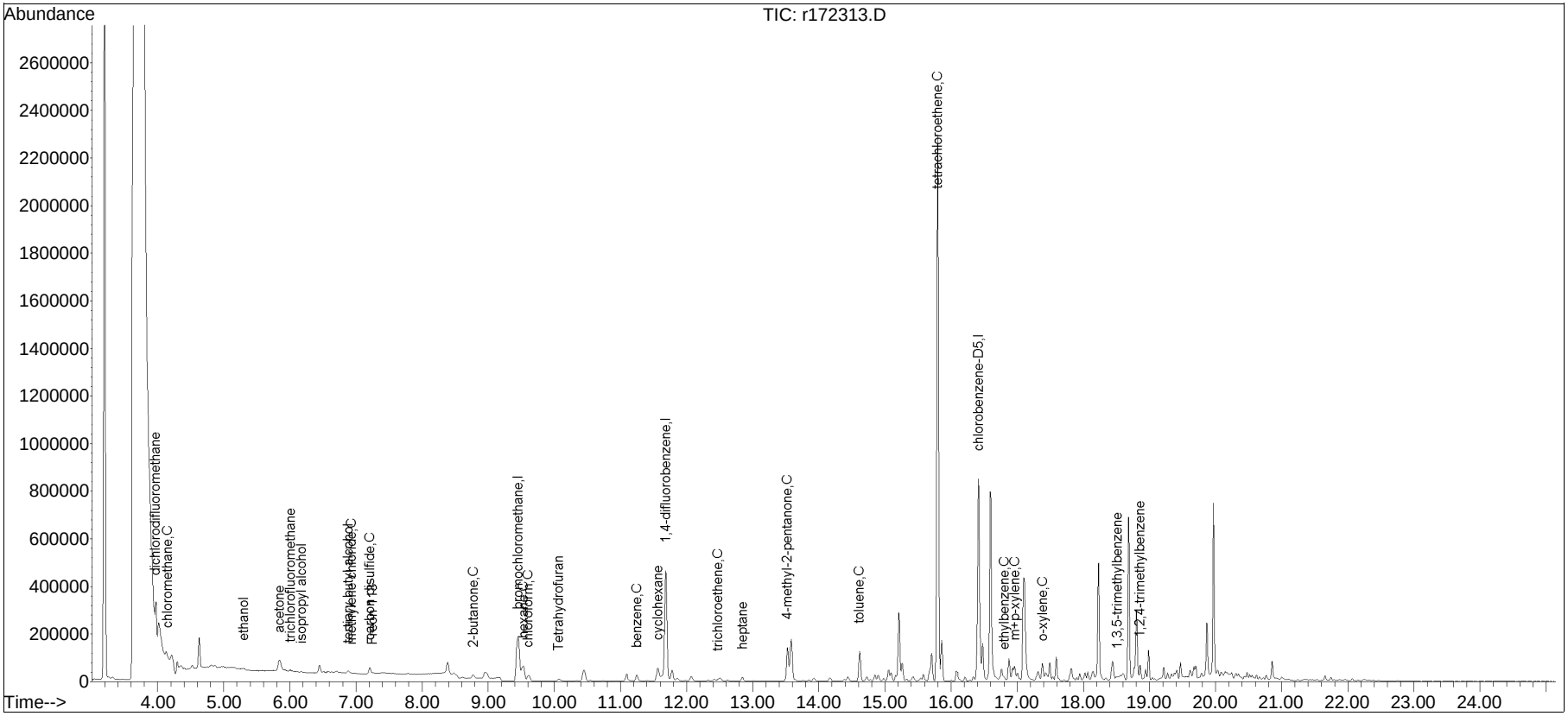
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) benzene	11.253	78	10404	0.188	ppbV #	93
52) carbon tetrachloride	11.420		0	N.D.		
53) cyclohexane	11.567	56	27690	0.984	ppbV	93
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.	d	
58) 1,4-dioxane	0.000		0	N.D.		
59) trichloroethene	12.473	130	3296	0.148	ppbV	96
60) 2,2,4-trimethylpentane	0.000		0	N.D.	d	
62) heptane	12.847	43	8232M6	0.245	ppbV	
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.525	43	117943M6	3.199	ppbV	
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	14.392		0	N.D.		
68) toluene	14.617	91	103486	1.621	ppbV	97
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	15.800	166	786341	28.811	ppbV	99
80) chlorobenzene	0.000		0	N.D.	d	
81) ethylbenzene	16.808	91	5568	0.072	ppbV	92
83) m+p-xylene	16.967	91	18879	0.296	ppbV	91
84) bromoform	0.000		0	N.D.		
85) styrene	17.300		0	N.D.		
86) 1,1,2,2-tetrachloroethane	17.375		0	N.D.		
87) o-xylene	17.392	91	11245	0.179	ppbV	91
96) 4-ethyl toluene	0.000		0	N.D.	d	
97) 1,3,5-trimethylbenzene	18.517	105	6178	0.074	ppbV	95
99) 1,2,4-trimethylbenzene	18.858	105	12513	0.174	ppbV #	61
101) Benzyl Chloride	0.000		0	N.D.		
102) 1,3-dichlorobenzene	0.000		0	N.D.		
103) 1,4-dichlorobenzene	0.000		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

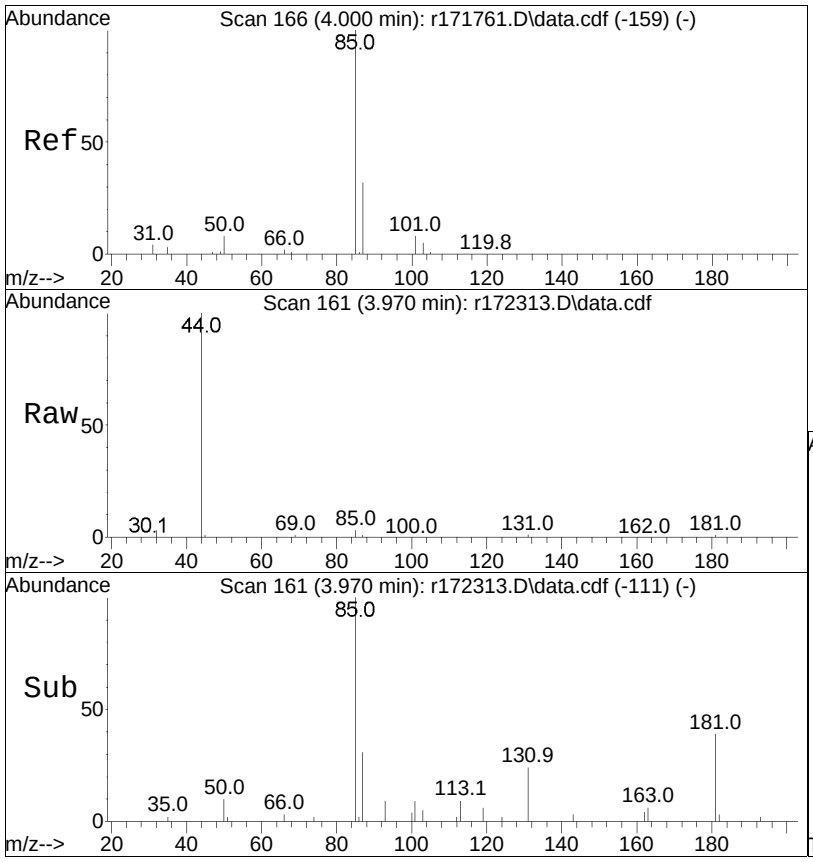
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY - .s\Data\Airlab17\2018\180616T\r172296.D

Data Path : O:\Forensics\Data\Airlab17\2018\180616T\
Data File : r172313.D
Acq On : 17 Jun 2018 3:30 AM
Operator : AIRLAB17:MB
Sample : WG1126781-5,3,250,250
Misc : WG1126781,ICAL14731
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jun 18 21:38:39 2018
Quant Method : O:\Forensics\Data\Airlab17\2018\180616T\TALL180521.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue May 22 12:38:49 2018
Response via : Initial Calibration

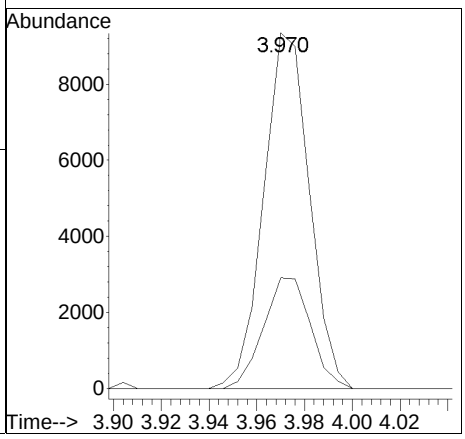


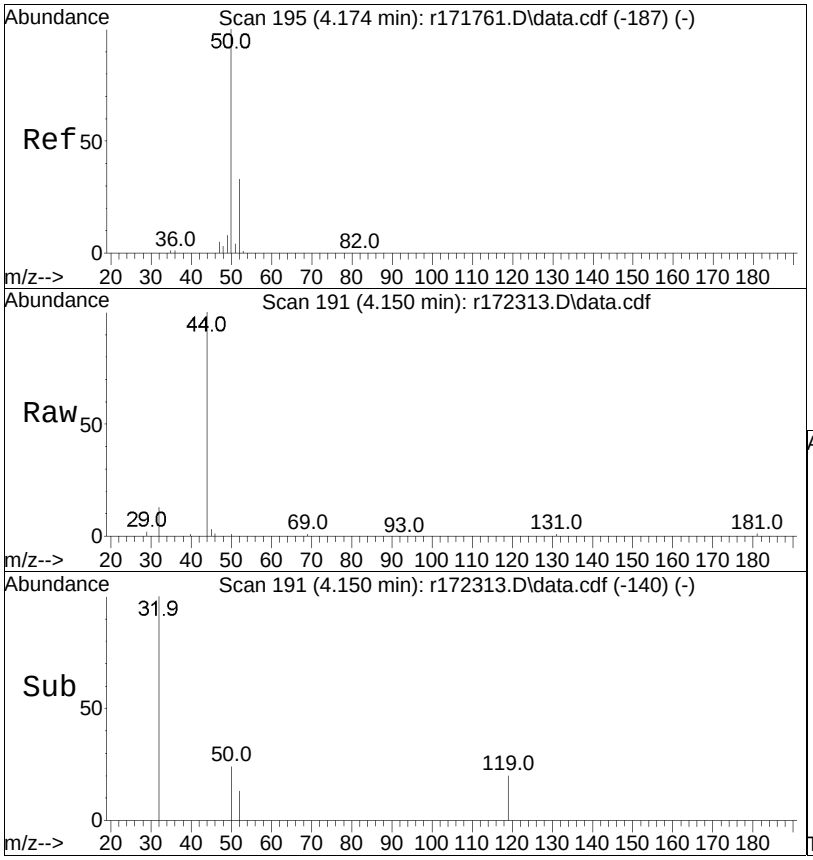


#5
dichlorodifluoromethane
Concen: 0.59 ppbV
RT: 3.970 min Scan# 161
Delta R.T. -0.030 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 85 Resp: 12437

Ion	Ratio	Lower	Upper
85	100		
87	31.1	26.0	39.0

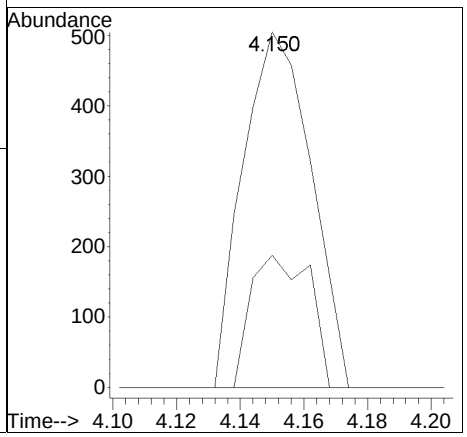


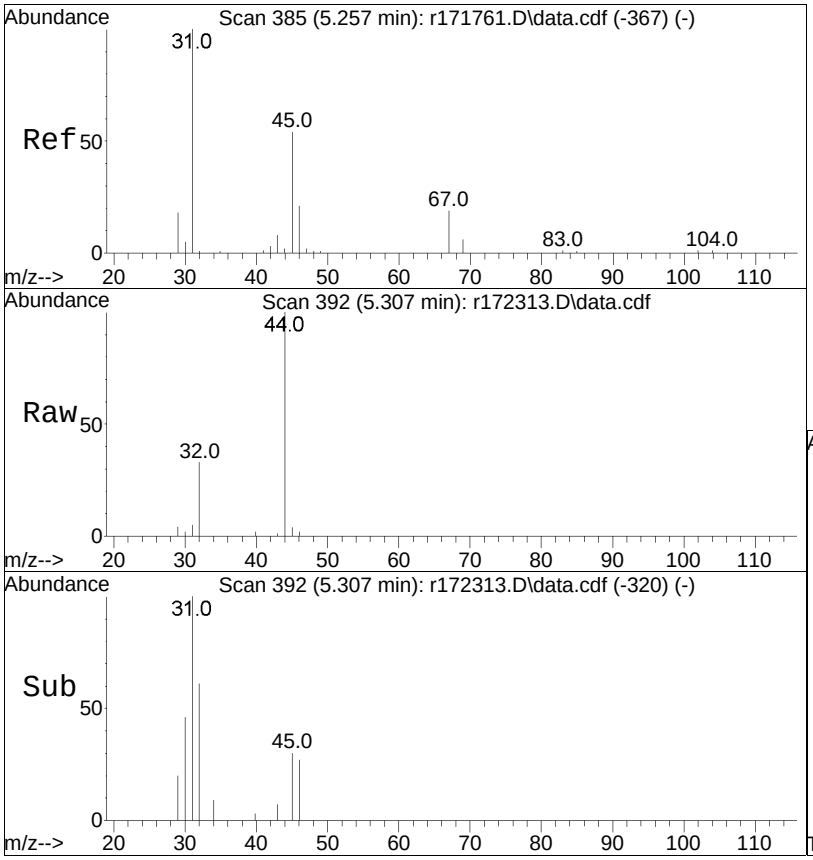


#6
chloromethane
Concen: 0.07 ppbV
RT: 4.150 min Scan# 191
Delta R.T. -0.024 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 50 Resp: 752

Ion	Ratio	Lower	Upper
50	100		
52	37.2	26.6	39.8

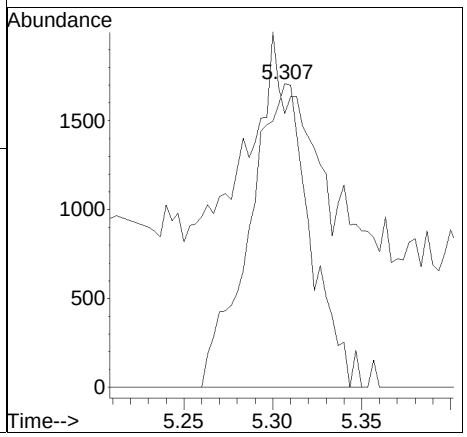


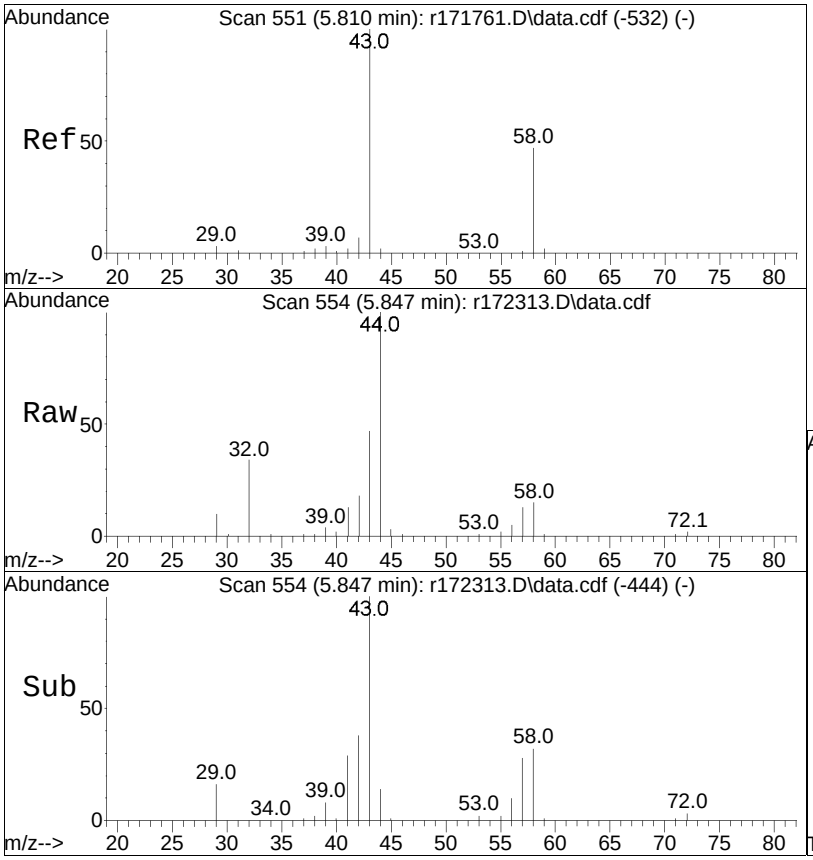


#15
ethanol
Concen: 0.53 ppbV
RT: 5.307 min Scan# 392
Delta R.T. 0.050 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 31 Resp: 4138

Ion	Ratio	Lower	Upper
31	100		
45	90.2	42.9	64.3#

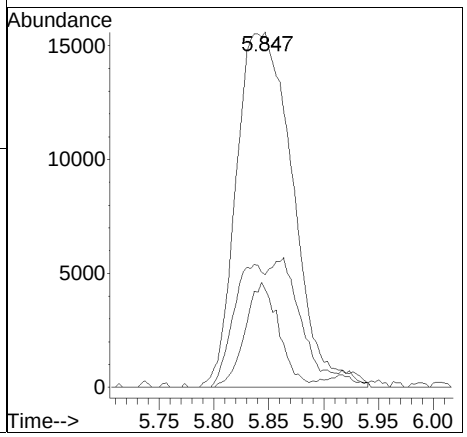


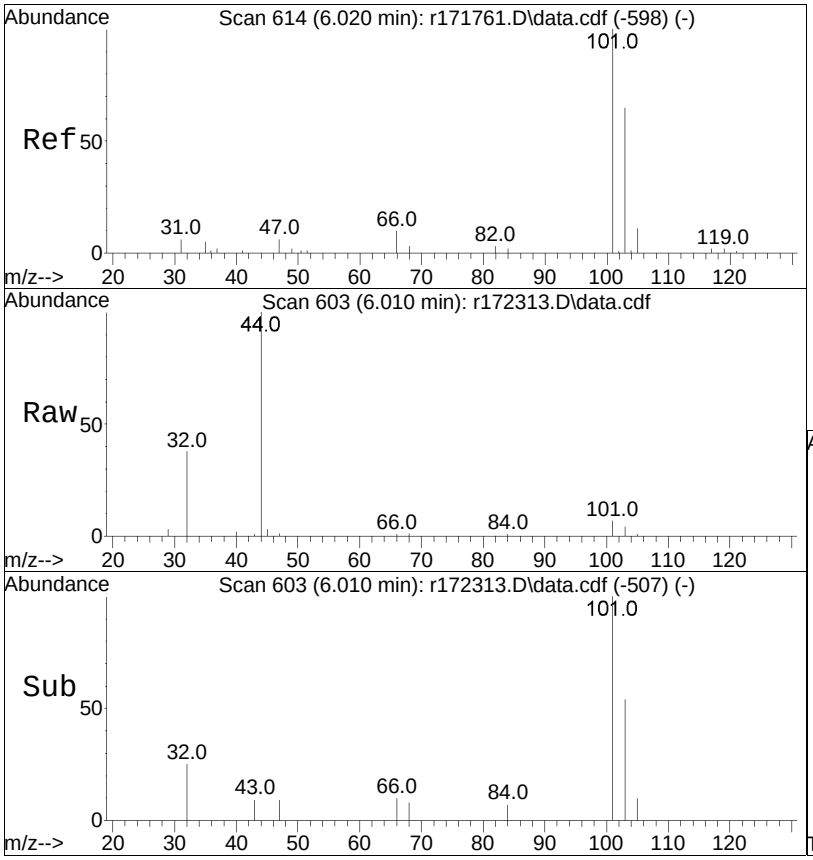


#19
acetone
Concen: 3.78 ppbV
RT: 5.847 min Scan# 554
Delta R.T. 0.037 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 43 Resp: 55583

Ion	Ratio	Lower	Upper
43	100		
58	31.8	37.4	56.0#
57	27.6	0.9	1.3#

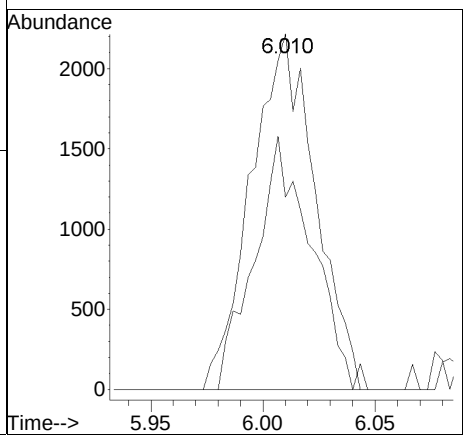


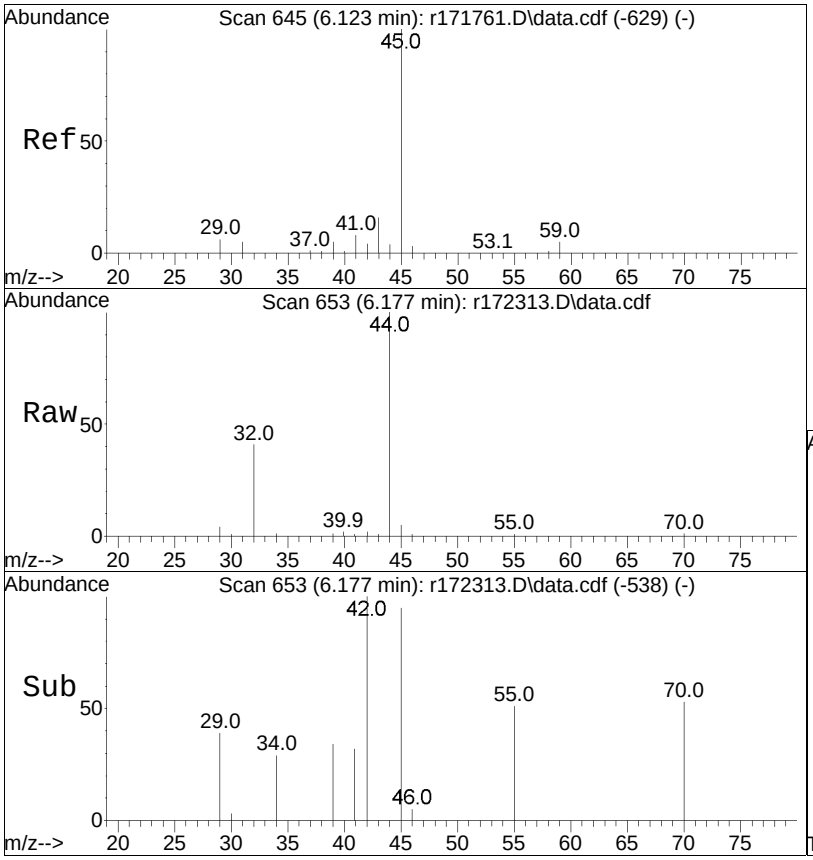


#21
trichlorofluoromethane
Concen: 0.23 ppbV
RT: 6.010 min Scan# 603
Delta R.T. -0.010 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion:101 Resp: 4419

Ion	Ratio	Lower	Upper
101	100		
103	54.1	51.9	77.9

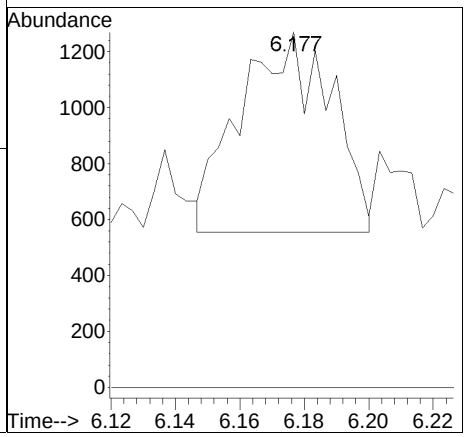


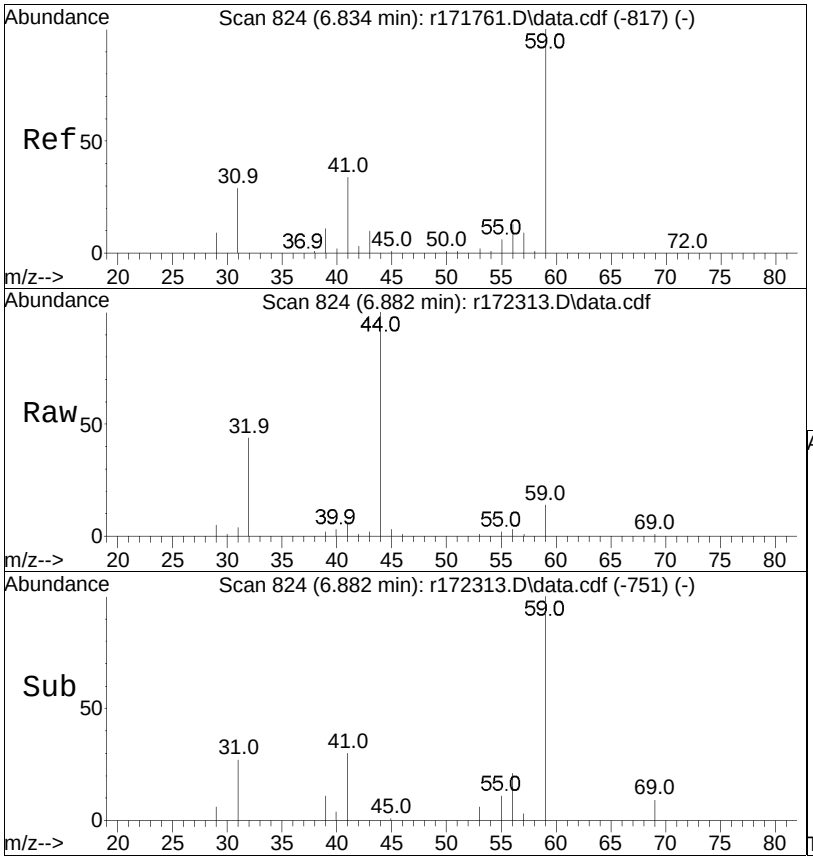


#22
isopropyl alcohol
Concen: 0.08 ppbV m
RT: 6.177 min Scan# 653
Delta R.T. 0.053 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 45 Resp: 1406

Ion	Ratio	Lower	Upper
45	100		
59	0.0	3.9	5.9#

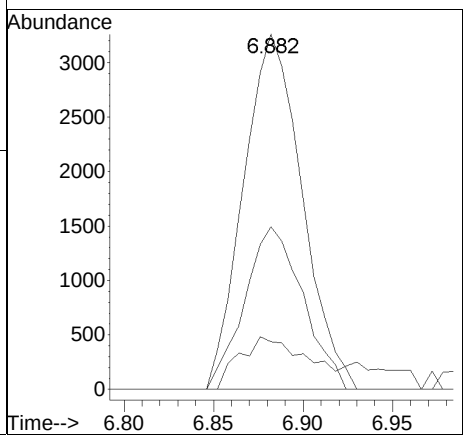


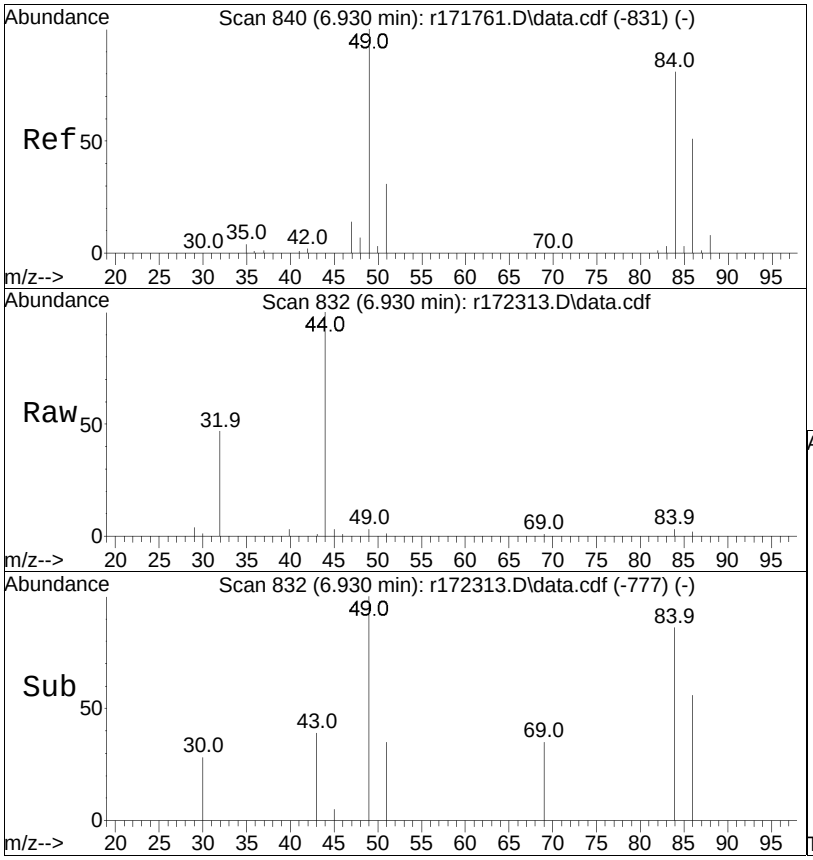


#27
tertiary butyl alcohol
Concen: 0.45 ppbV
RT: 6.882 min Scan# 824
Delta R.T. 0.048 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 59 Resp: 7433

Ion	Ratio	Lower	Upper
59	100		
41	45.8	27.1	40.7#
43	13.4	8.0	12.0#

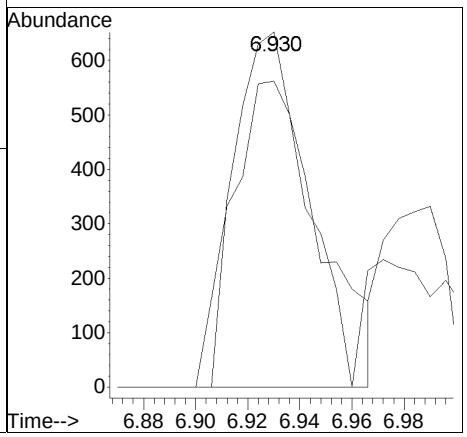


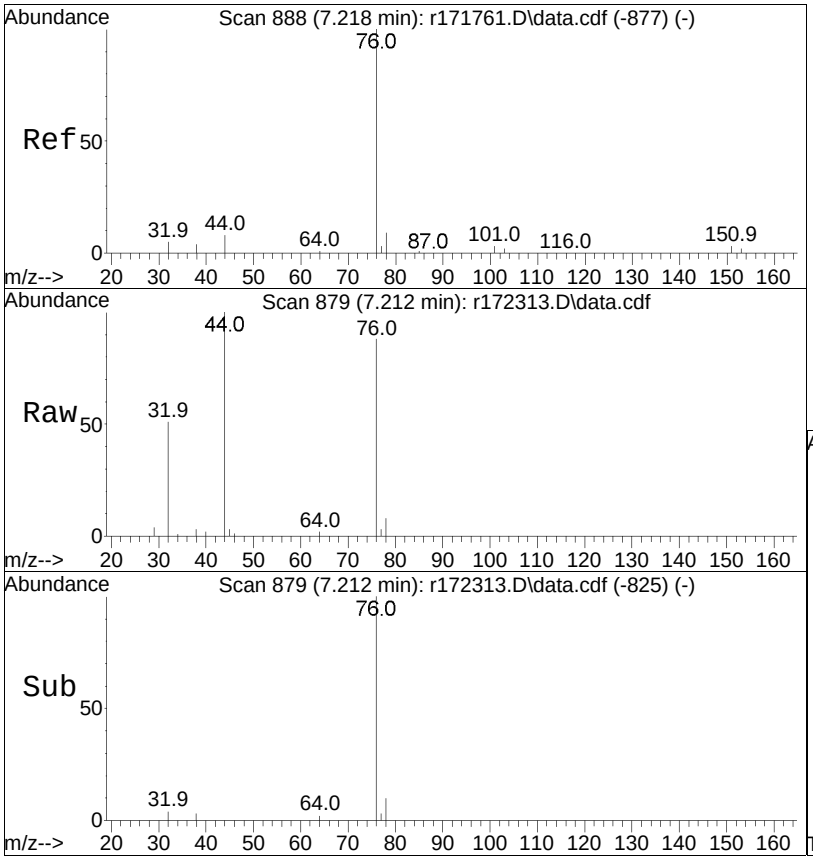


#28
methylene chloride
Concen: 0.10 ppbV
RT: 6.930 min Scan# 832
Delta R.T. 0.000 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 49 Resp: 1378

Ion	Ratio	Lower	Upper
49	100		
84	86.2	64.8	97.2

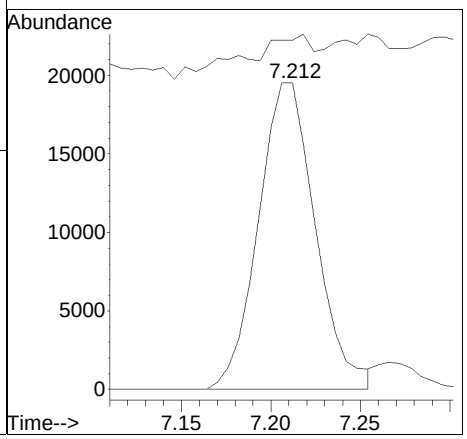


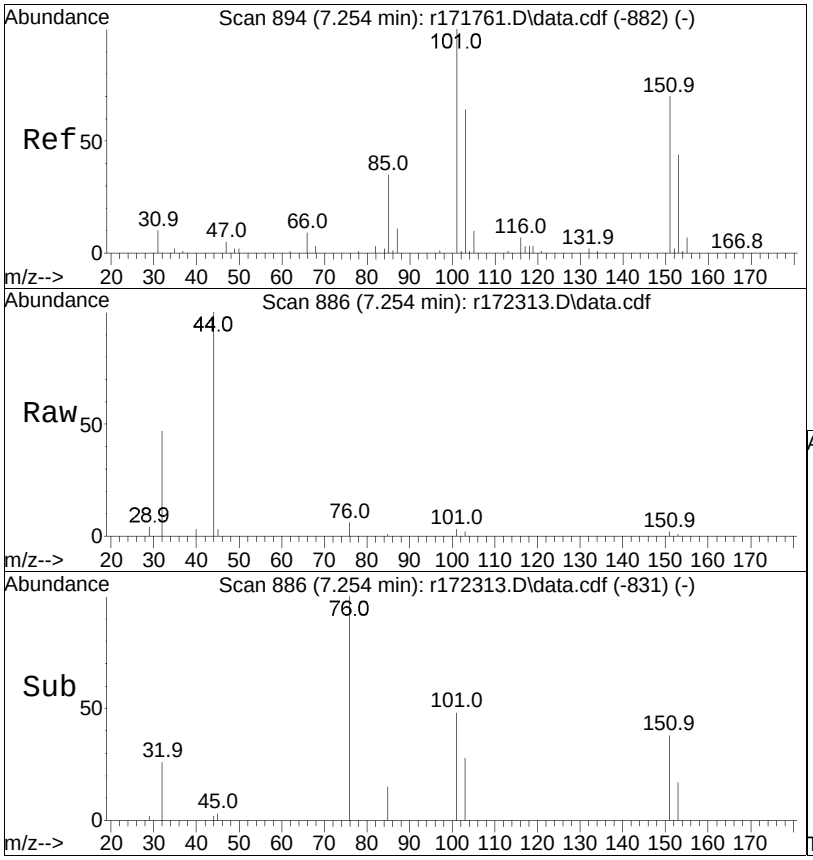


#30
carbon disulfide
Concen: 1.16 ppbV
RT: 7.212 min Scan# 879
Delta R.T. -0.006 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 76 Resp: 43342

Ion	Ratio	Lower	Upper
76	100		
44	113.8	7.5	11.3#

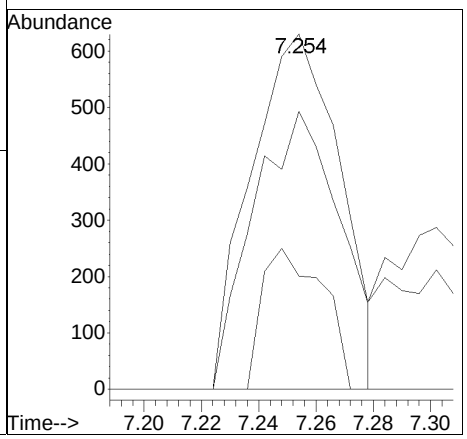


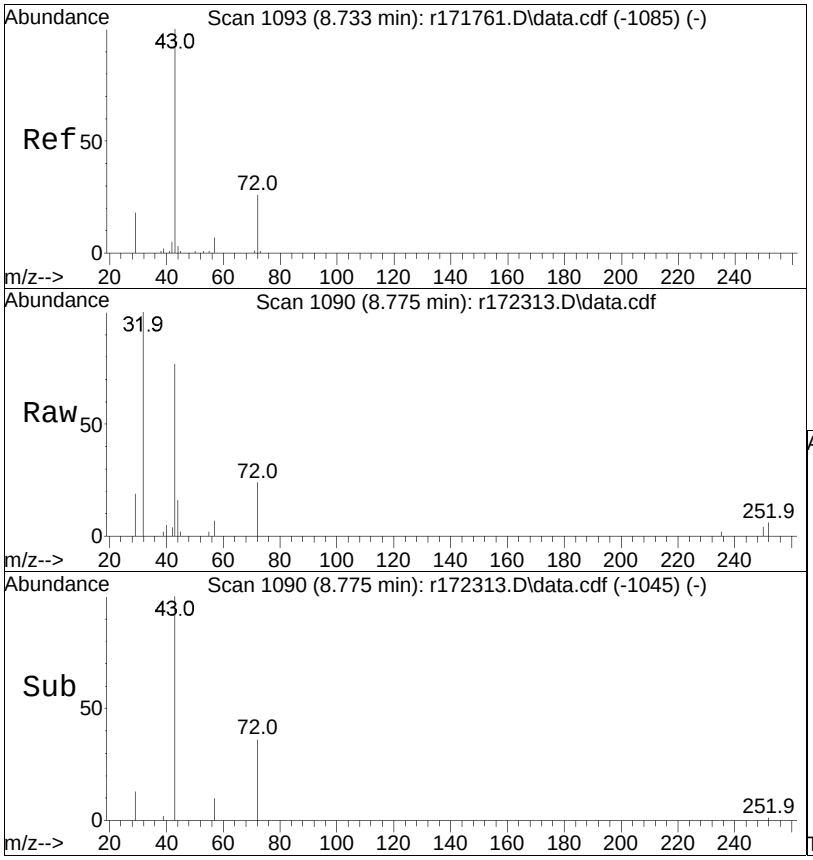


#31
Freon 113
Concen: 0.06 ppbV
RT: 7.254 min Scan# 886
Delta R.T. 0.000 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion:101 Resp: 1359

Ion	Ratio	Lower	Upper
101	100		
85	31.9	28.3	42.5
151	78.3	56.0	84.0

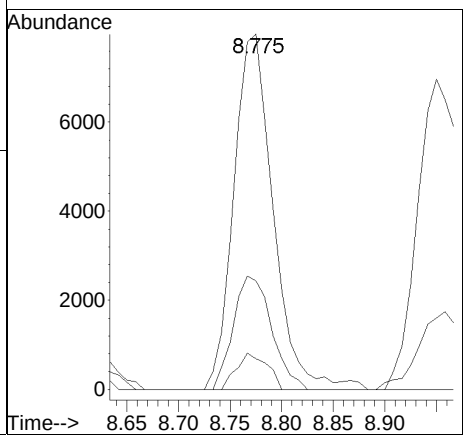


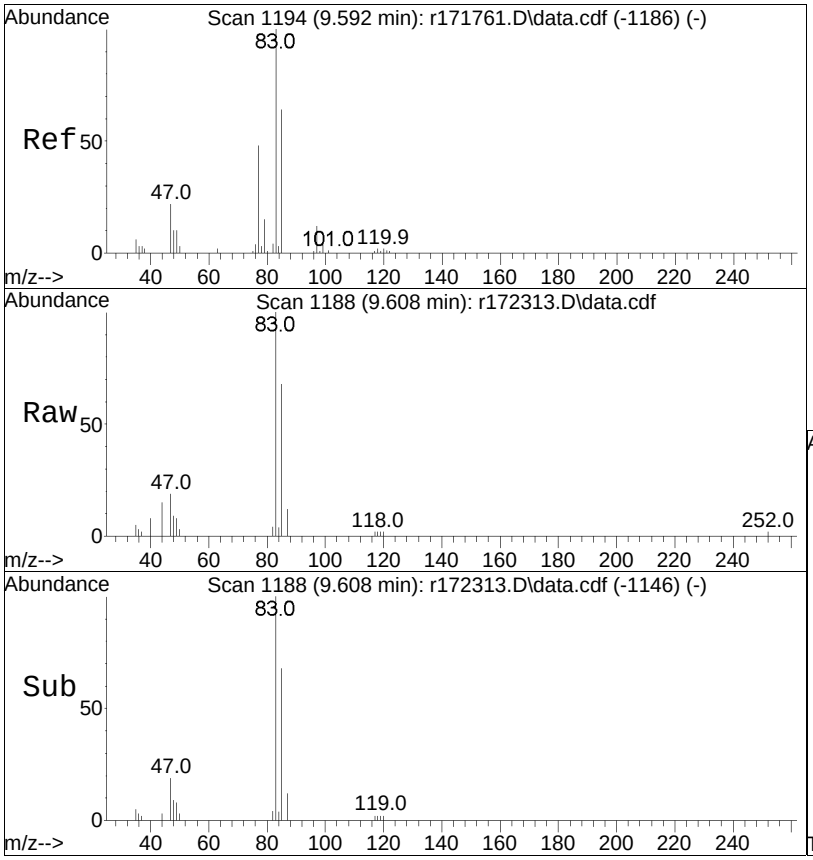


#36
2-butanone
Concen: 0.70 ppbV
RT: 8.775 min Scan# 1090
Delta R.T. 0.042 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 43 Resp: 21235

Ion	Ratio	Lower	Upper
43	100		
72	30.5	21.1	31.7
57	8.6	5.6	8.4#

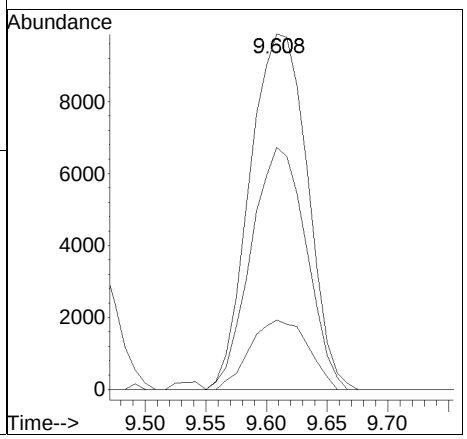


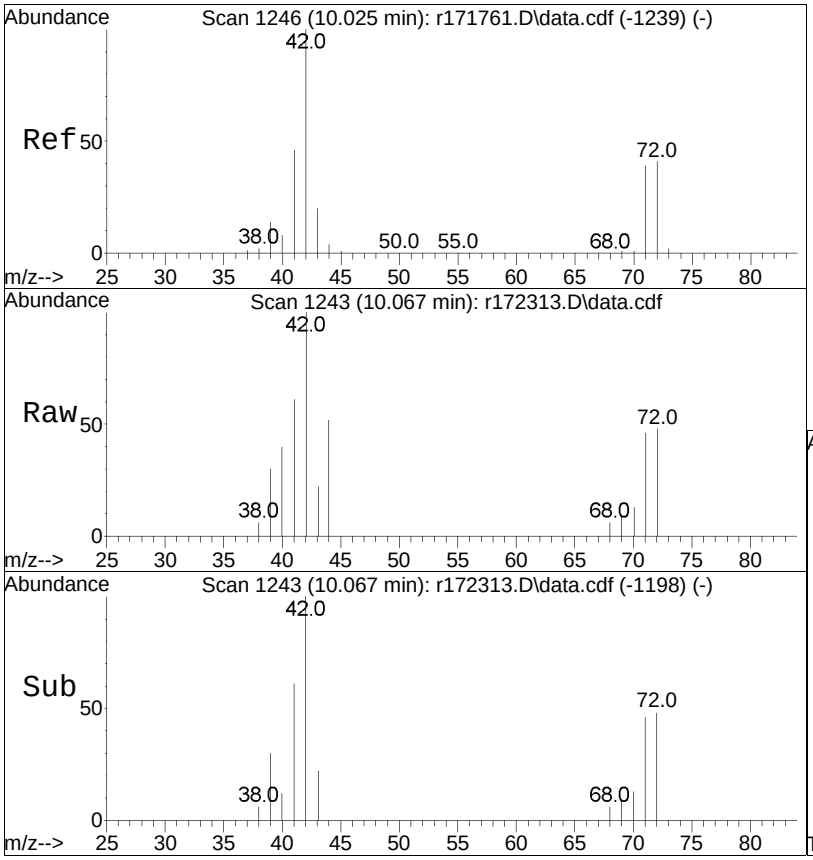


#39
chloroform
Concen: 1.37 ppbV
RT: 9.608 min Scan# 1188
Delta R.T. 0.017 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 83 Resp: 32503

Ion	Ratio	Lower	Upper
83	100		
85	68.1	51.8	77.6
47	19.5	18.1	27.1

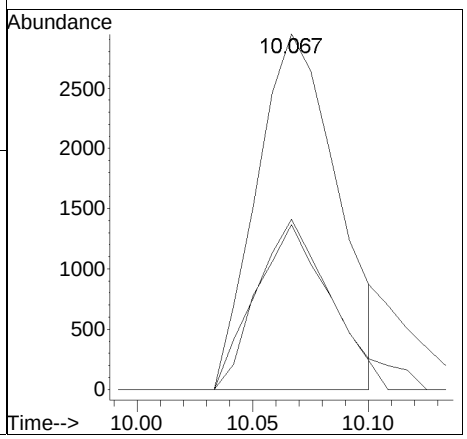


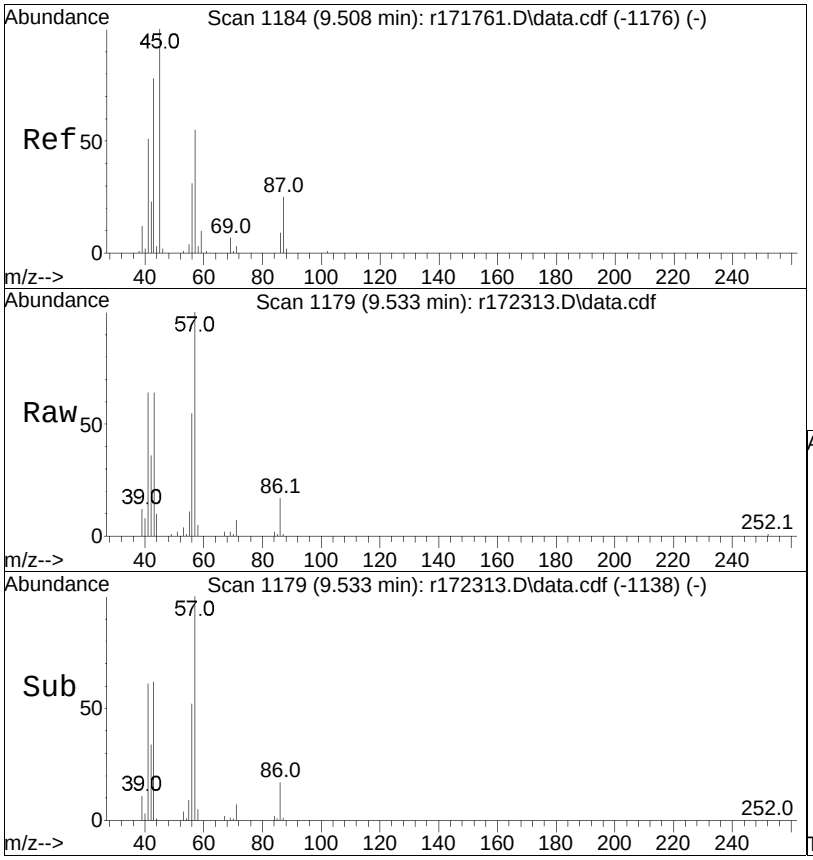


#40
Tetrahydrofuran
Concen: 0.41 ppbV m
RT: 10.067 min Scan# 1243
Delta R.T. 0.042 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 42 Resp: 7158

Ion	Ratio	Lower	Upper
42	100		
71	46.4	31.2	46.8
72	47.9	33.0	49.4

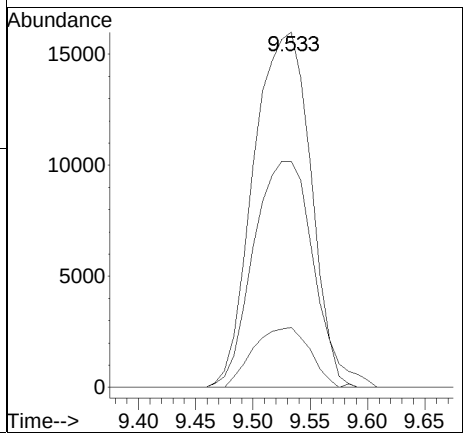


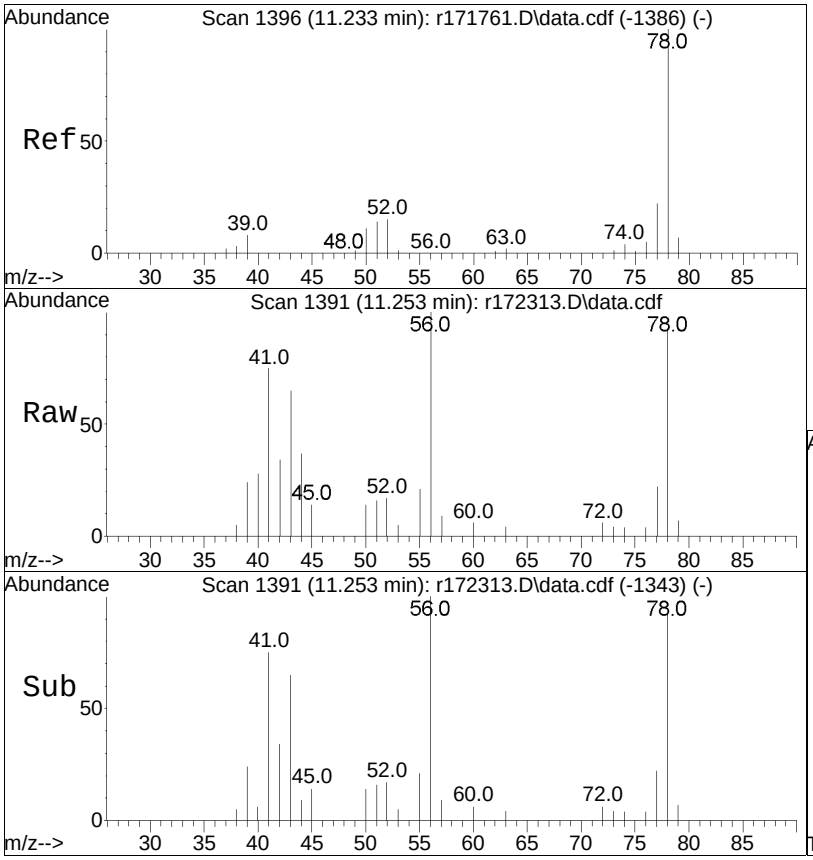


#44
hexane
Concen: 2.10 ppbV
RT: 9.533 min Scan# 1179
Delta R.T. 0.025 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 57 Resp: 55316

Ion	Ratio	Lower	Upper
57	100		
43	63.7	113.3	169.9#
86	16.9	13.6	20.4

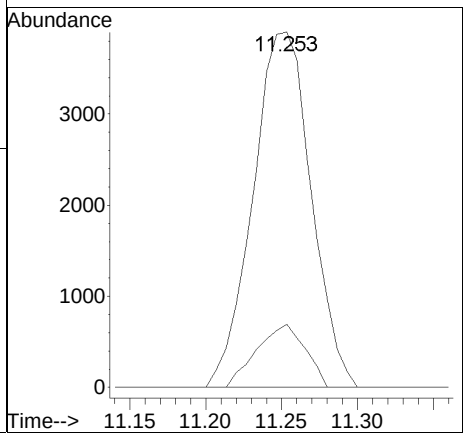


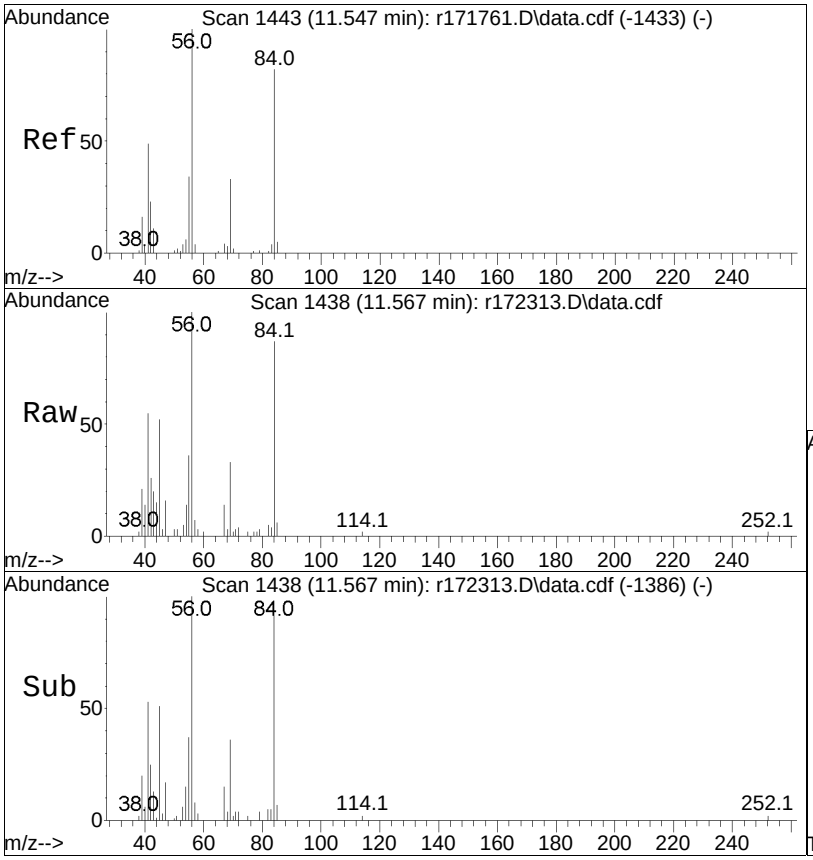


#50
benzene
Concen: 0.19 ppbV
RT: 11.253 min Scan# 1391
Delta R.T. 0.020 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 78 Resp: 10404

Ion	Ratio	Lower	Upper
78	100		
52	17.8	11.8	17.6#

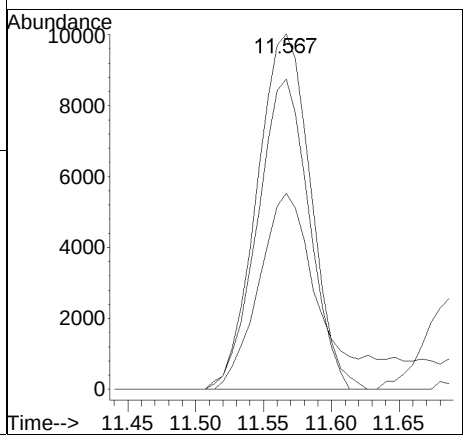


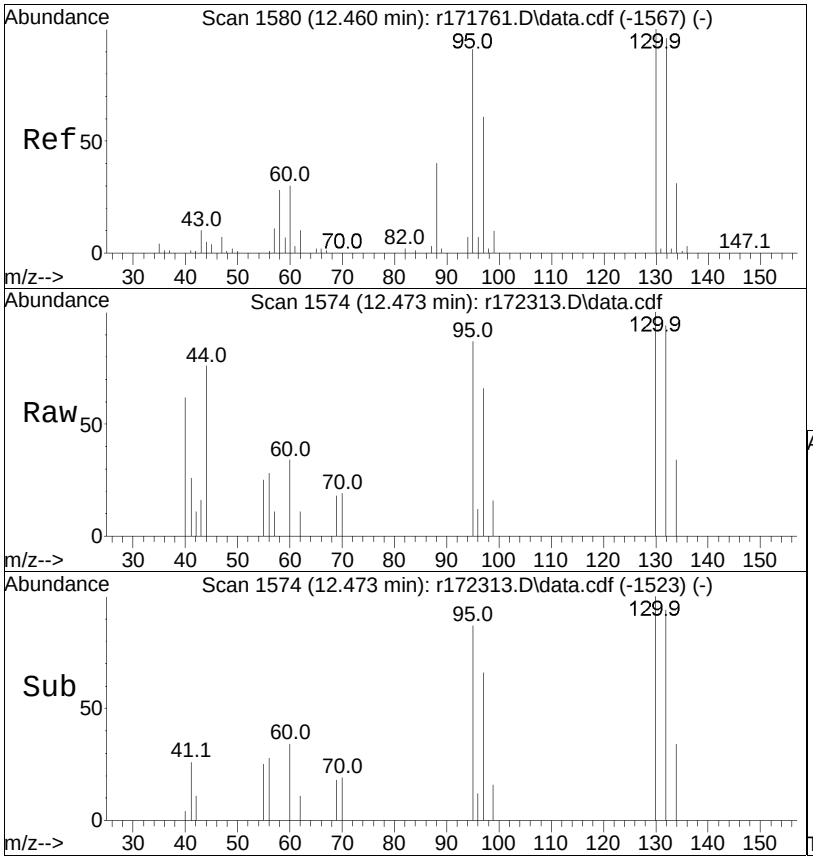


#53
cyclohexane
Concen: 0.98 ppbV
RT: 11.567 min Scan# 1438
Delta R.T. 0.020 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 56 Resp: 27690

Ion	Ratio	Lower	Upper
56	100		
84	87.3	65.8	98.6
41	55.2	39.3	58.9

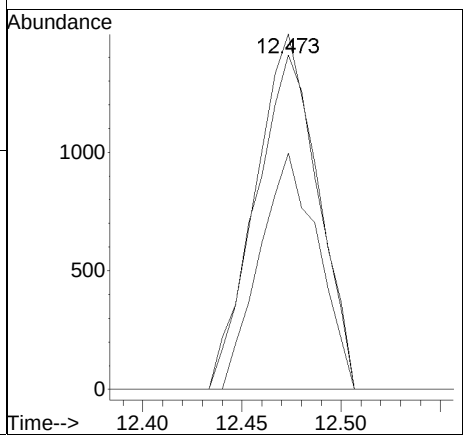


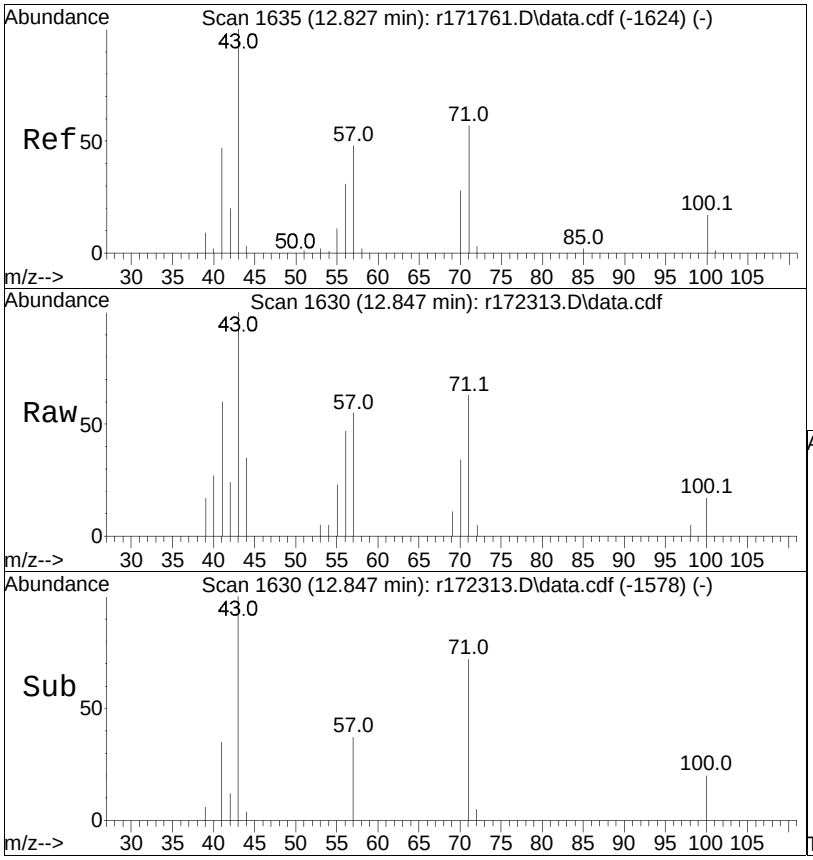


#59
trichloroethene
Concen: 0.15 ppbV
RT: 12.473 min Scan# 1574
Delta R.T. 0.013 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion:130 Resp: 3296

Ion	Ratio	Lower	Upper
130	100		
132	94.1	77.0	115.4
97	66.5	49.2	73.8

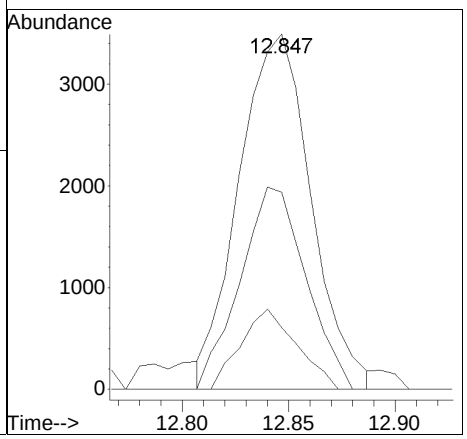


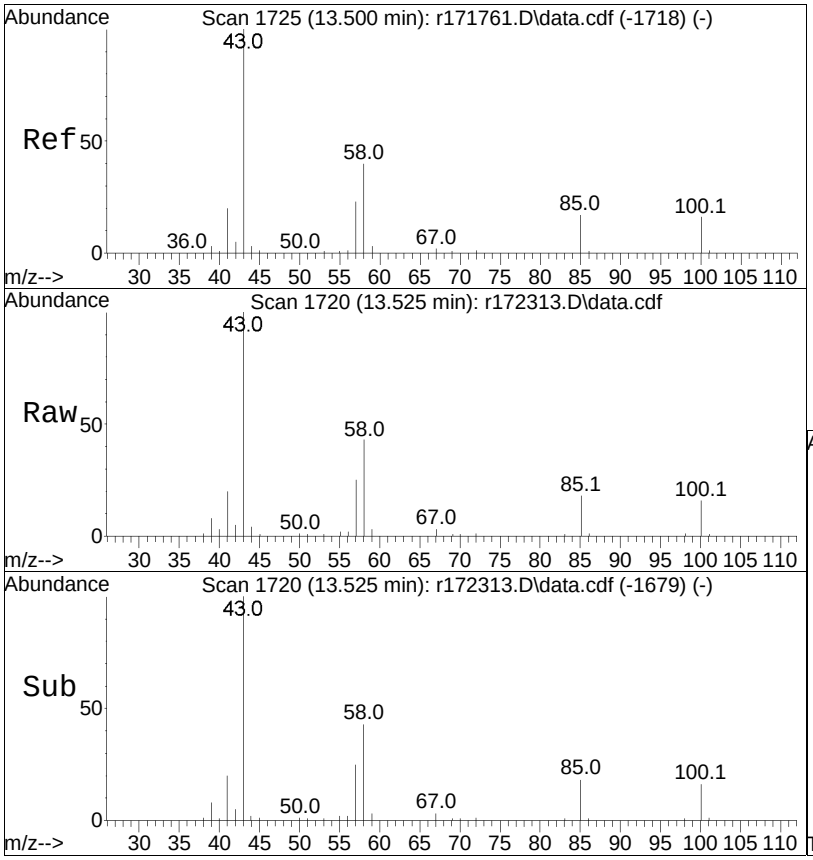


#62
heptane
Concen: 0.24 ppbV m
RT: 12.847 min Scan# 1630
Delta R.T. 0.020 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 43 Resp: 8232

Ion	Ratio	Lower	Upper
43	100		
57	55.5	38.0	57.0
100	17.4	13.8	20.6

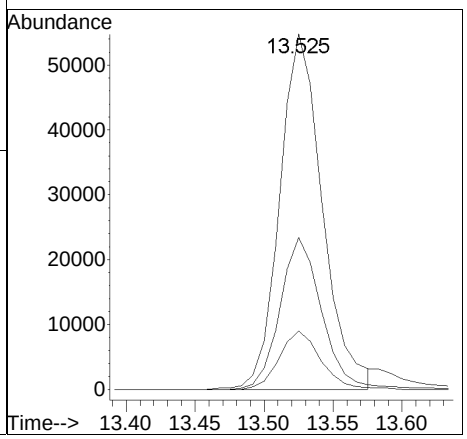


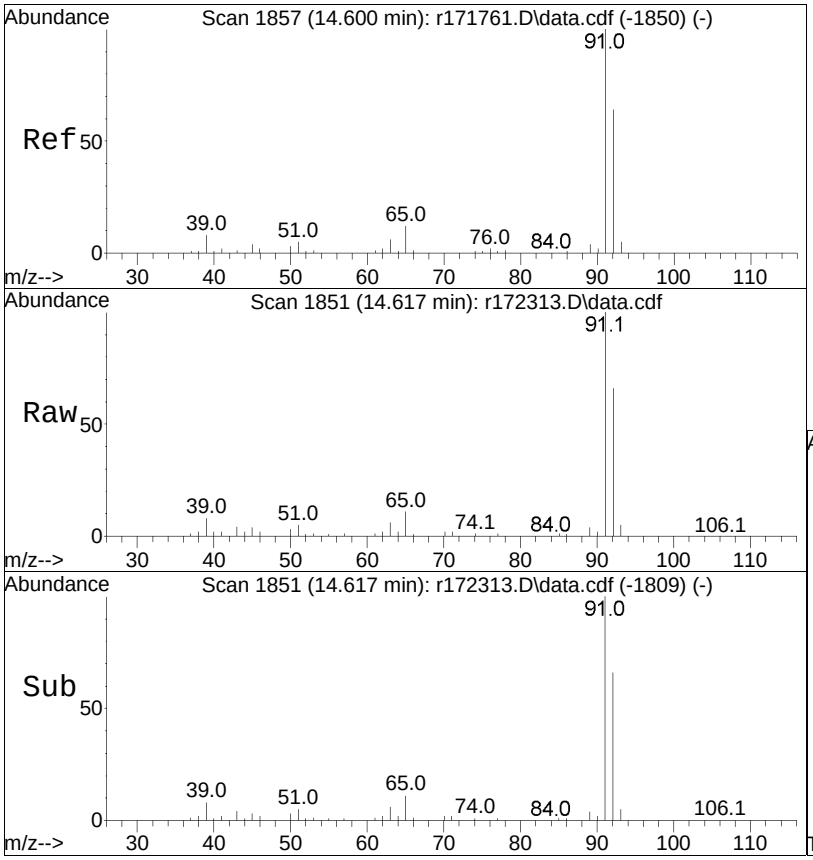


#64
4-methyl-2-pentanone
Concen: 3.20 ppbV m
RT: 13.525 min Scan# 1720
Delta R.T. 0.025 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 43 Resp: 117943

Ion	Ratio	Lower	Upper
43	100		
58	42.8	32.3	48.5
100	16.4	12.6	18.8

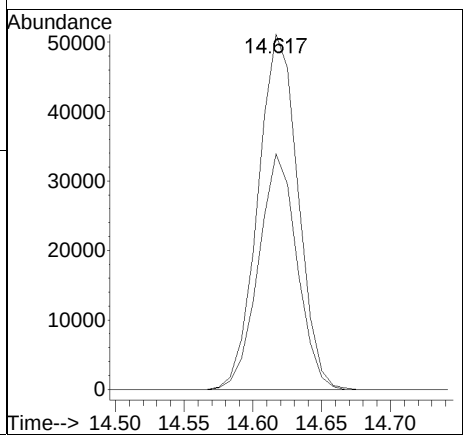


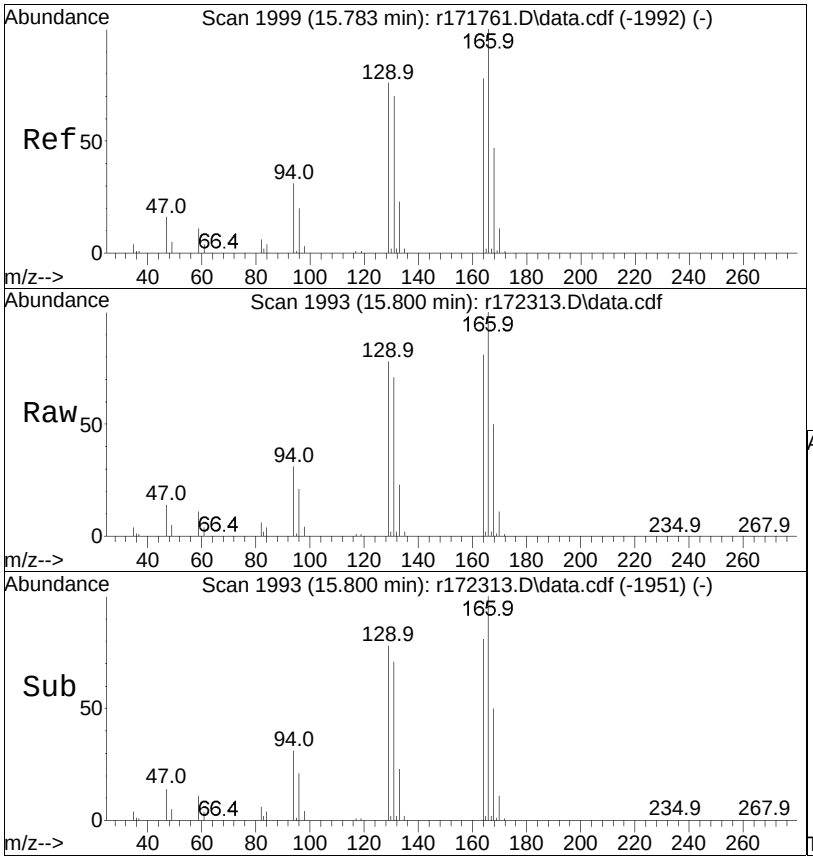


#68
toluene
Concen: 1.62 ppbV
RT: 14.617 min Scan# 1851
Delta R.T. 0.017 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 91 Resp: 103486

Ion	Ratio	Lower	Upper
91	100		
92	66.3	51.0	76.6

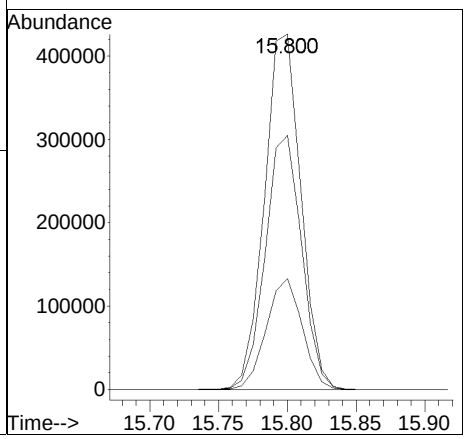


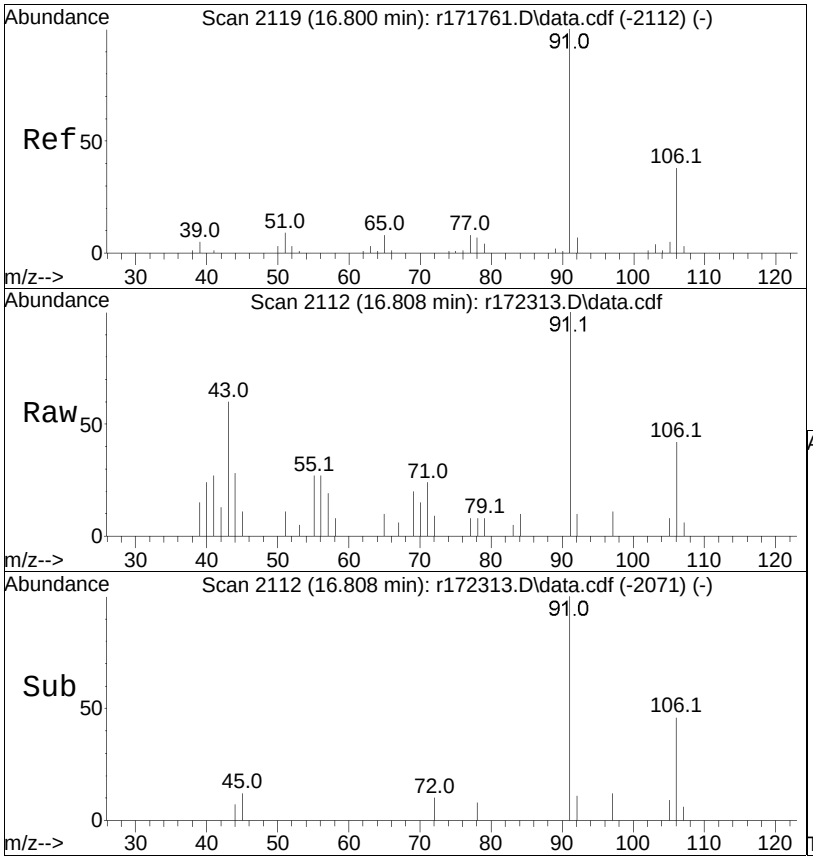


#78
tetrachloroethene
Concen: 28.81 ppbV
RT: 15.800 min Scan# 1993
Delta R.T. 0.017 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion:166 Resp: 786341

Ion	Ratio	Lower	Upper
166	100		
131	71.4	56.0	84.0
94	31.2	24.9	37.3

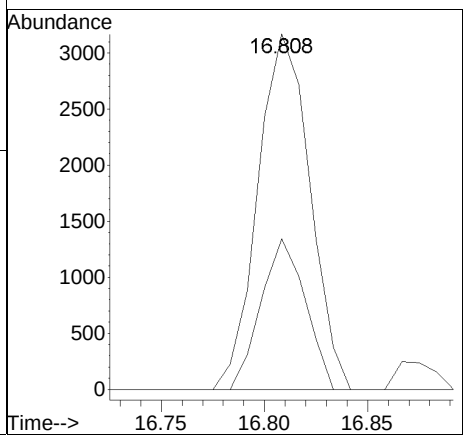


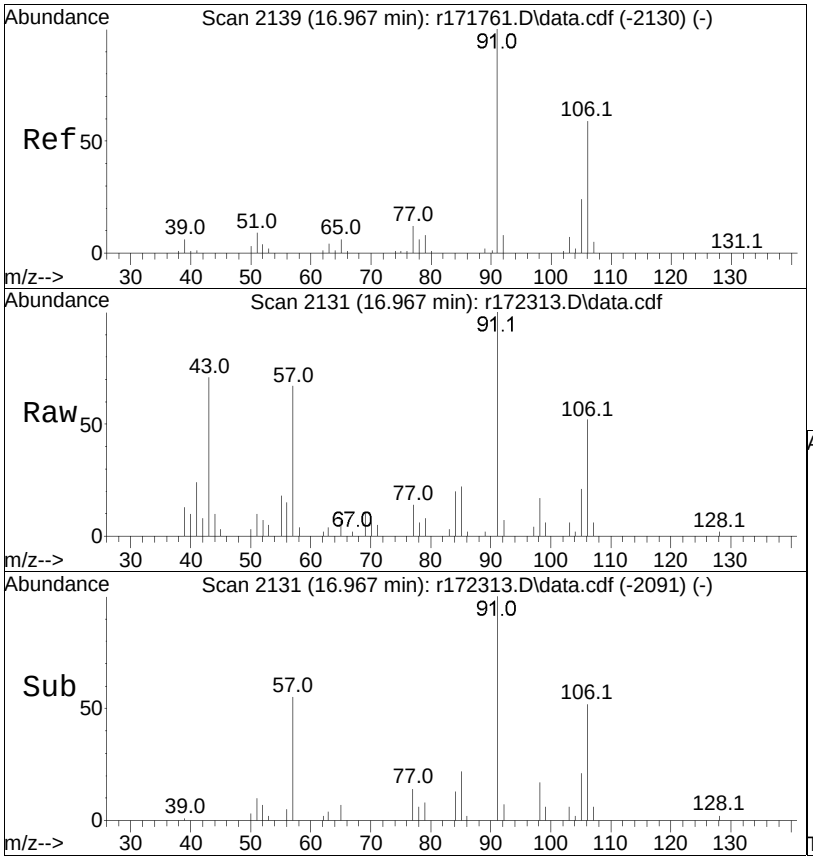


#81
ethylbenzene
Concen: 0.07 ppbV
RT: 16.808 min Scan# 2112
Delta R.T. 0.008 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 91 Resp: 5568

Ion	Ratio	Lower	Upper
91	100		
106	42.4	30.2	45.2

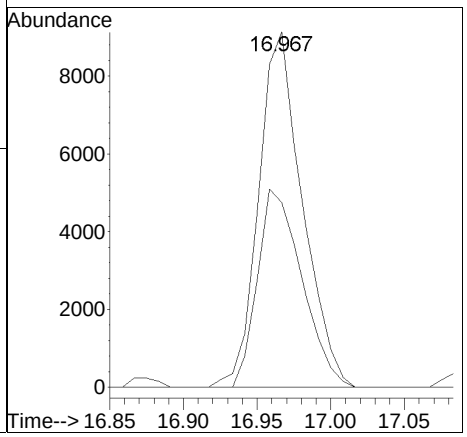


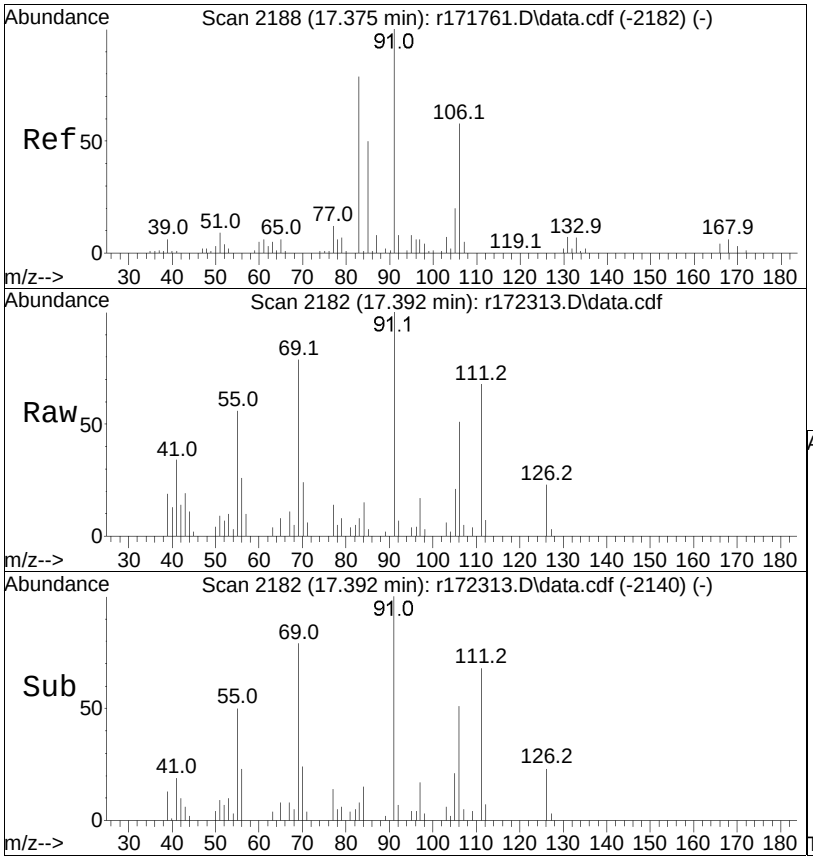


#83
m+p-xylene
Concen: 0.30 ppbV
RT: 16.967 min Scan# 2131
Delta R.T. 0.000 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 91 Resp: 18879

Ion	Ratio	Lower	Upper
91	100		
106	52.0	47.1	70.7

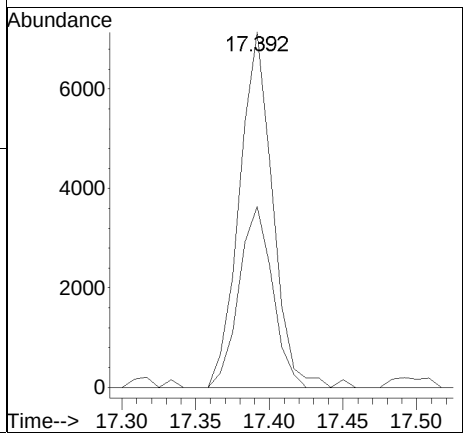


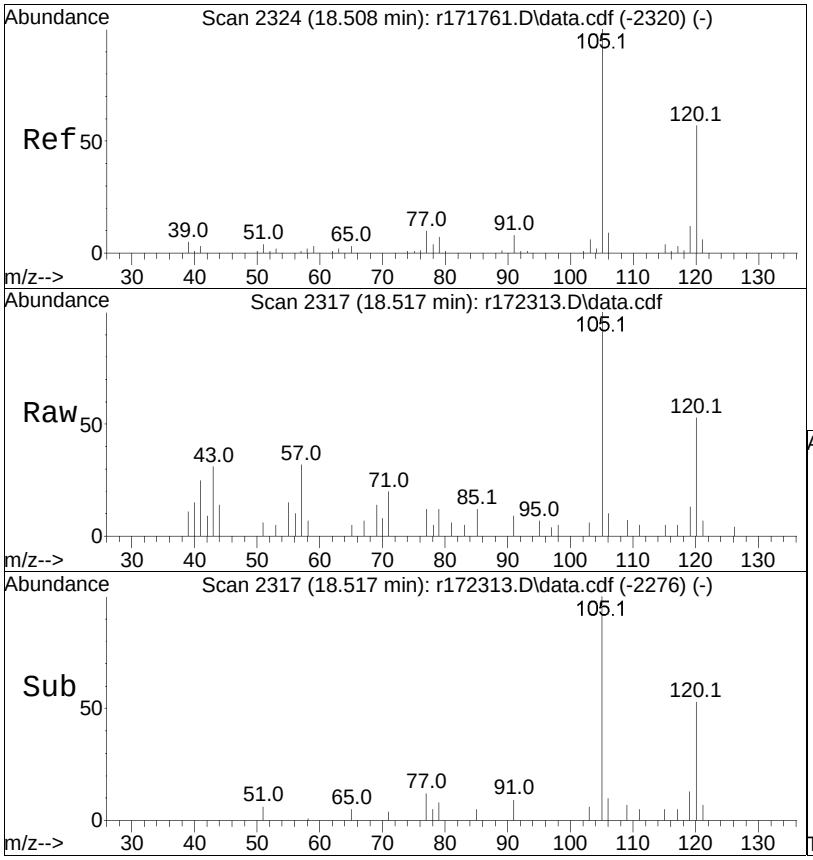


#87
o-xylene
Concen: 0.18 ppbV
RT: 17.392 min Scan# 2182
Delta R.T. 0.017 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion: 91 Resp: 11245

Ion	Ratio	Lower	Upper
91	100		
106	50.9	46.1	69.1

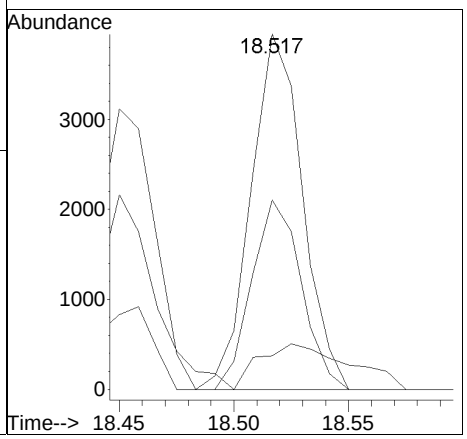


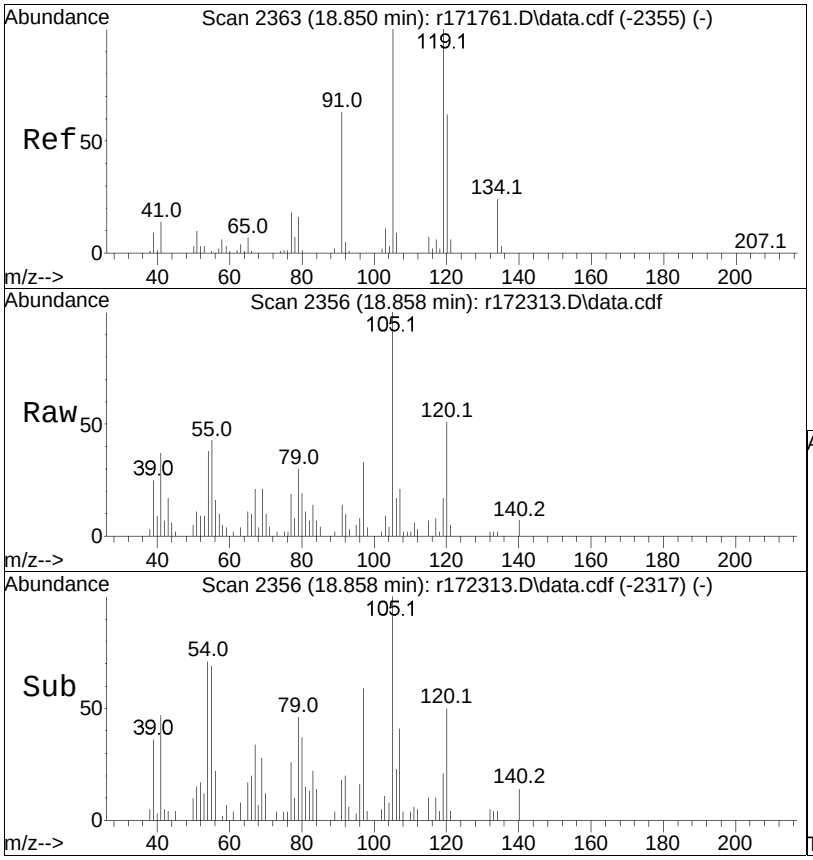


#97
1,3,5-trimethylbenzene
Concen: 0.07 ppbV
RT: 18.517 min Scan# 2317
Delta R.T. 0.008 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion:105 Resp: 6178

Ion	Ratio	Lower	Upper
105	100		
120	53.3	45.8	68.6
91	9.5	6.8	10.2

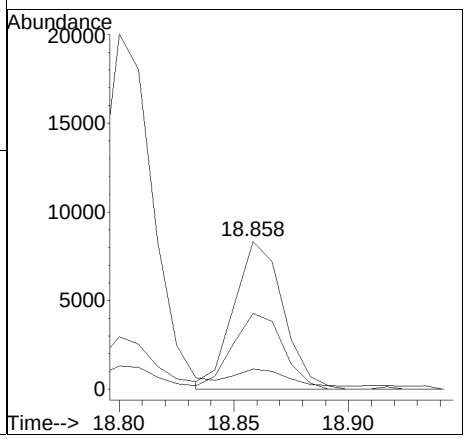




#99
1,2,4-trimethylbenzene
Concen: 0.17 ppbV
RT: 18.858 min Scan# 2356
Delta R.T. 0.008 min
Lab File: r172313.D
Acq: 17 Jun 2018 3:30 AM

Tgt Ion:105 Resp: 12513

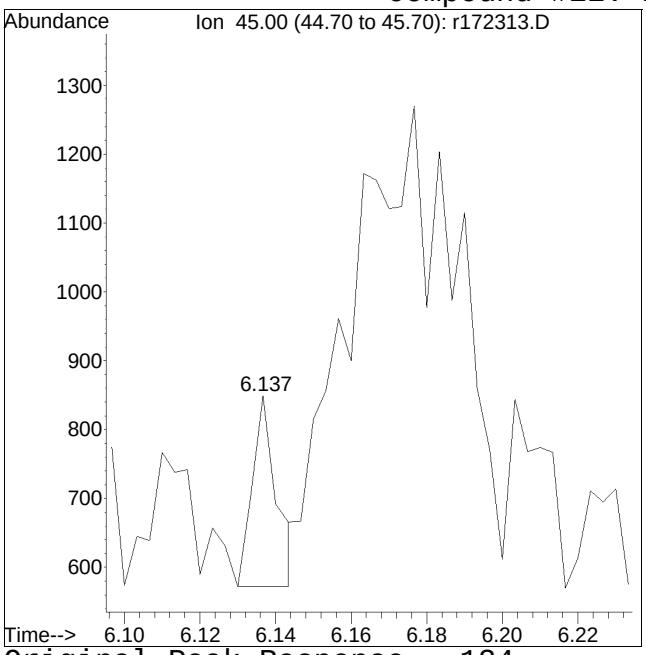
Ion	Ratio	Lower	Upper
105	100		
120	51.4	49.3	73.9
91	13.8	50.2	75.4#



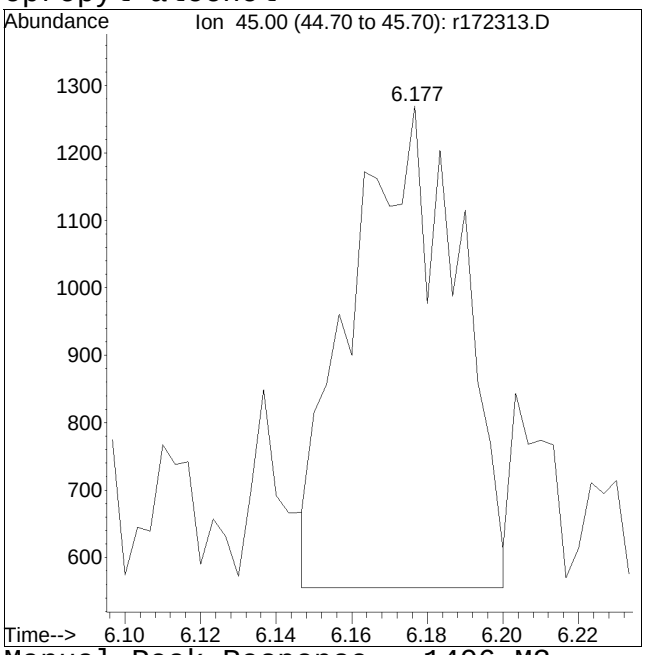
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r172313.D Operator : AIRLAB17:MB
Date Inj'd : 6/17/2018 3:30 AM Instrument :
Sample : WG1126781-5,3,250,250 Quant Date : 6/17/2018 7:41 am

Compound #22: isopropyl alcohol



Original Peak Response = 124



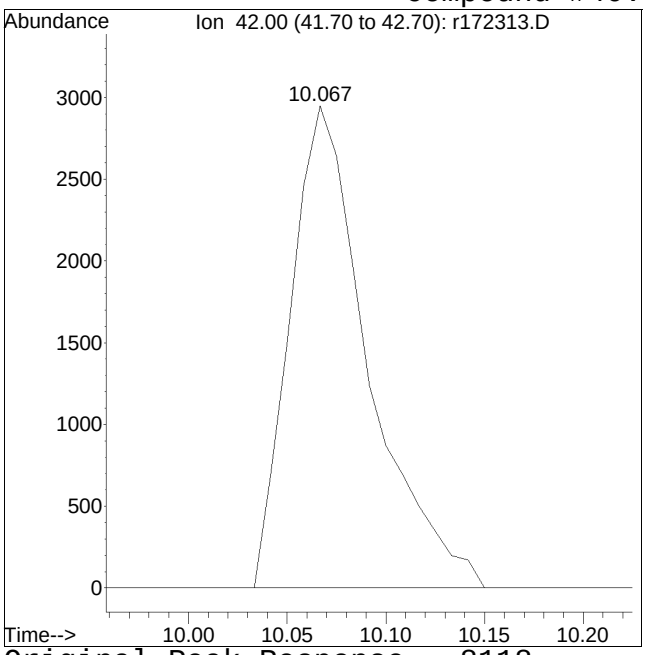
Manual Peak Response = 1406 M3

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.

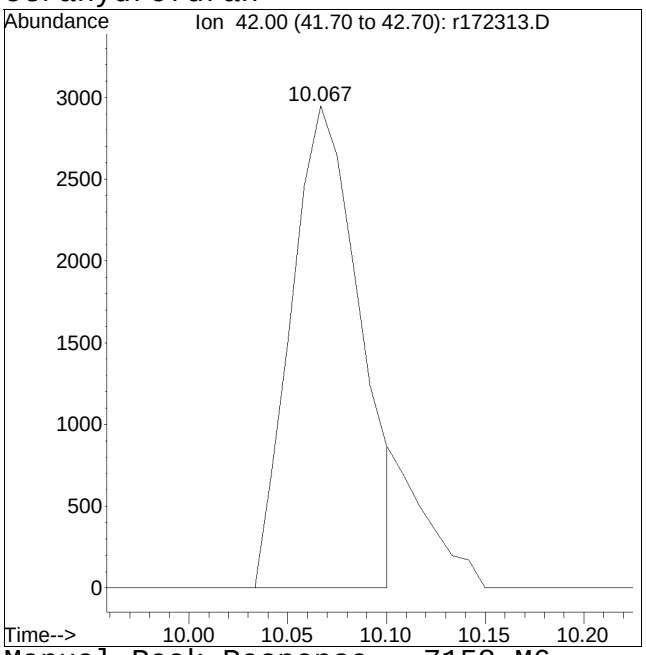
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r172313.D Operator : AIRLAB17:MB
Date Inj'd : 6/17/2018 3:30 AM Instrument :
Sample : WG1126781-5,3,250,250 Quant Date : 6/17/2018 7:41 am

Compound #40: Tetrahydrofuran



Original Peak Response = 8118



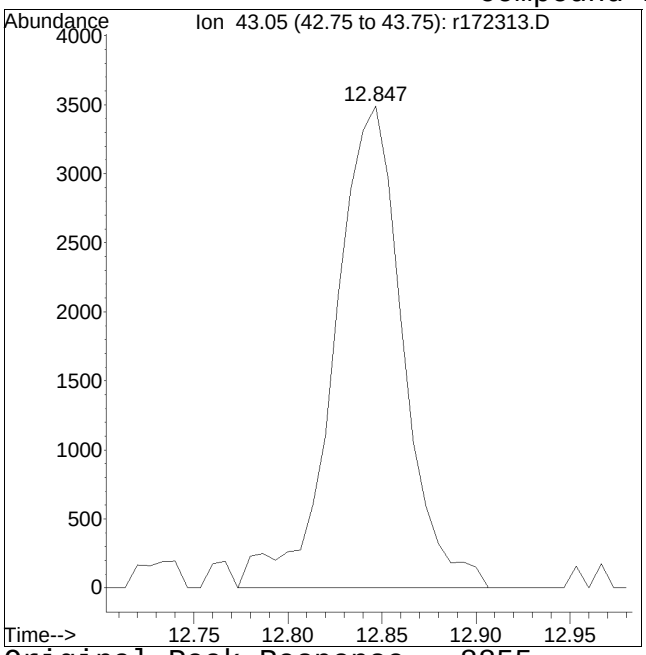
Manual Peak Response = 7158 M6

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

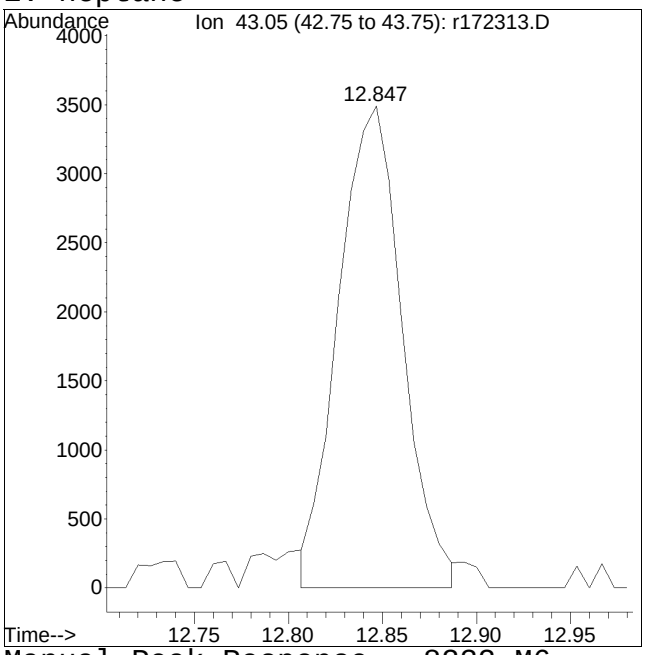
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r172313.D Operator : AIRLAB17:MB
Date Inj'd : 6/17/2018 3:30 AM Instrument :
Sample : WG1126781-5,3,250,250 Quant Date : 6/17/2018 7:41 am

Compound #62: heptane



Original Peak Response = 8855



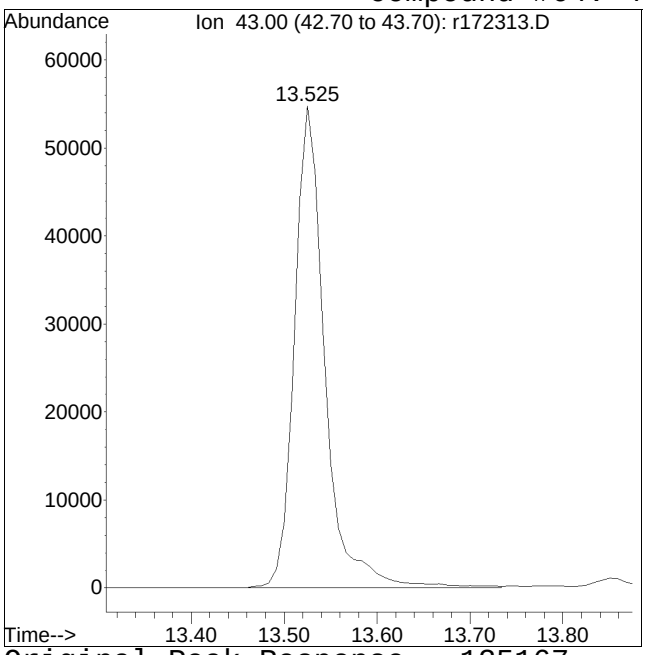
Manual Peak Response = 8232 M6

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

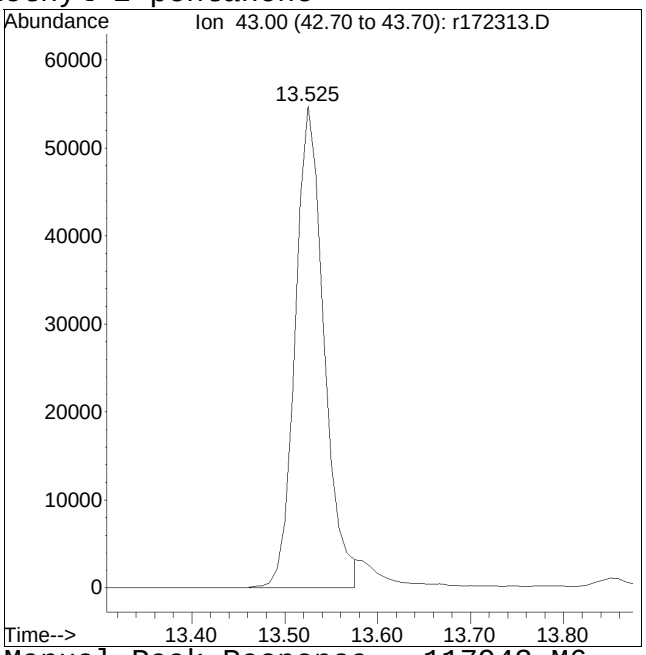
Manual Integration/Negative Proof Report

Data Path : O:\Forensics\Data\Airlab17\QMethod : TALL180521.M
Data File : r172313.D Operator : AIRLAB17:MB
Date Inj'd : 6/17/2018 3:30 AM Instrument :
Sample : WG1126781-5,3,250,250 Quant Date : 6/17/2018 7:41 am

Compound #64: 4-methyl-2-pentanone



Original Peak Response = 125167



Manual Peak Response = 117943 M6

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

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.

Result, ppbv = C_s x 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
$DF = V_{cf} / V_{ci}$
Where:
V_{ci} = volume of air in canister prior to pressurization, L
P =

Conversion of ppbv to ug/m^3
ug/m^3 = (ppbv) * 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).

$V_{ci} = 2.7 * Pl/14.696$

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)

Jun 19 2018, 02:38 pm

Work Group: WG1126781 for Department: 3 GC/MS

Created: 16-JUN-18 Due: Operator: ry

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1821916-01	SV05_2018.06.12	S	TO15-LL	SOIL_VAPOR	DONE	U	0712	0619	S0	Can-2.7
L1821916-02	SV06_2018.06.12	S	TO15-LL	SOIL_VAPOR	DONE	U	0712	0619	S0	Can-2.7
L1821916-03	OA02_2018.06.12	S	TO15-LL	AIR	DONE	U	0712	0619	S0	Can-2.7
L1821998-01	VAPOR CARBON INFLUENT	S	TO15-LL	SOIL_VAPOR	DONE	U	0712	0619	S0	Can-2.7
WG1126781-1	MS BFB Tune Standard	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1126781-1	MS BFB Tune Standard	S	TO15-LL	AIR	DONE	U				
WG1126781-2	Continuing Calibrati	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1126781-2	Continuing Calibrati	S	TO15-LL	AIR	DONE	U				
WG1126781-3	Laboratory Control S	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1126781-3	Laboratory Control S	S	TO15-LL	AIR	DONE	U				
WG1126781-4	Laboratory Method Bl	S	TO15-LL	AIR	DONE	U				
WG1126781-4	Laboratory Method Bl	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1126781-5	Duplicate Sample	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1126781-5	Duplicate Sample	S	TO15-LL	AIR	DONE	U				

Comments:

WG1126781-5 L1821916-02

Sequence Report

5/23/2018 1:03:59 PM

ID	Name	Inlet	Pos.	Int Std	Cal Std	Sample	Method	Inject	Status	Error	Notes
	TA17052101	One	T1	100	100	250	Alpha TO15.CTD3		Queue		
	ITO15-SIMSTD0.02	One	T5	100	100	50	Alpha TO15.CTD3		Queue		
	ITO15-SIMSTD0.04	One	T5	100	100	100	Alpha TO15.CTD3		Queue		
	ITO15-SIMSTD0.1	One	T5	100	100	250	Alpha TO15.CTD3		Queue		
	ITO15-SIMSTD0.2	One	T6	100	100	50	Alpha TO15.CTD3		Queue		
	ITO15-SIMSTD0.5	One	T6	100	100	125	Alpha TO15.CTD3		Queue		
	ITO15-SIMSTD1.0	One	T6	100	100	250	Alpha TO15.CTD3		Queue		
	ITO15-SIMSTD5.0	One	T7	100	100	125	Alpha TO15.CTD3		Queue		
	ITO15-SIMSTD10	One	T7	100	100	250	Alpha TO15.CTD3		Queue		
	ITO15-SIMSTD20	One	T8	100	100	50	Alpha TO15.CTD3		Queue		
	ITO15-SIMSTD50	One	T8	100	100	125	Alpha TO15.CTD3		Queue		
	ITO15-SIMSTD100	One	T8	100	100	250	Alpha TO15.CTD3		Queue		
	BA17052101	One	T1	100	100	250	Alpha TO15.CTD3		Queue		
	BA17052102	One	T1	100	100	250	Alpha TO15.CTD3		Queue		
	CTO15-LLSTD10	One	T2	100	100	250	Alpha TO15.CTD3		Queue		
	CTO15-SIMSTD5.0	One	T2	100	100	125	Alpha TO15.CTD3		Queue		

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: Airlab17

Internal Standard/Surrogate IDs: SS17-030 / SS17-031

Date: 05/21/18

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: AR \ MB

Sequence File Name: 180521.S

SIM ICAL# Full Scan ICAL# APH ICAL#

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	TA17052101	TO15_SFS.qgm	R171753.qgd	250 mL	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS.qgm	R171754.qgd	SS18-015D 50 mL	SIM ONLY		NA
5	ITO15-SIMSTD0.04	TO15_SFS.qgm	R171755.qgd	SS18-015D 100 mL	SIM ONLY		NA
5	ITO15-SIMSTD0.1	TO15_SFS.qgm	R171756.qgd	SS18-015D 250 mL	SIM ONLY		NA
6	ITO15-SIMSTD0.2	TO15_SFS.qgm	R171757.qgd	SS18-015C 50 mL			NA
6	ITO15-SIMSTD0.5	TO15_SFS.qgm	R171758.qgd	SS18-015C 125 mL			NA
6	ITO15-SIMSTD1.0	TO15_SFS.qgm	R171759.qgd	SS18-015C 250 mL			NA
7	ITO15-SIMSTD5.0	TO15_SFS.qgm	R171760.qgd	SS18-015B 125 mL			NA
7	ITO15-SIMSTD10.0	TO15_SFS.qgm	R171761.qgd	SS18-015B 250 mL			NA
8	ITO15-SIMSTD20	TO15_SFS.qgm	R171762.qgd	SS18-015A 50 mL			NA
8	ITO15-SIMSTD50	TO15_SFS.qgm	R171763.qgd	SS18-015A 125 mL			NA
8	ITO15-LLSTD100	TO15_SFS.qgm	R171764.qgd	SS18-015A 250 mL	FULL SCAN ONLY		NA
1	BA17052101	TO15_SFS.qgm	R171765.qgd	250 mL			NA
1	BA17052102	TO15_SFS.qgm	R171766.qgd	250 mL			NA
2	CTO15-LLSTD10.0	TO15_SFS.qgm	R171767.qgd	SS18-014F 250 mL	FULL SCAN ICV		NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R171768.qgd	SS18-014F 125 mL	SIM ICV		NA

Alpha Analytical Air Lab
Instrument Run Log

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation

Sample ID information: L1301234-01,3,250,25({ 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

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: Airlab17

Internal Standard/Surrogate IDs: SS17-030 / SS17-031

Date: 06/16/18

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: RY

Sequence File Name: 180616.S

SIM ICAL# 14737 Full Scan ICAL# 14731 APH ICAL#

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	TA17061601	TO15_SFS.qgm	R172294.qgd	250 mL	TUNE		NA
2	CA17061601	TO15_SFS.qgm	R172295.qgd	SS18-015F 250 mL	NJ CCFAILED		NA
3	CTO15-LLSTD10.0	TO15_SFS.qgm	R172296.qgd	SS18-014F 250 mL	LL LCS		NA
3	CTO15-SIMSTD5.0	TO15_SFS.qgm	R172297.qgd	SS18-014F 125 mL	SIM LCS		NA
1	BA17061601	TO15_SFS.qgm	R172298.qgd	250 mL	BLANK		NA
2	L1822087-01,3,250,250	TO15_SFS.qgm	R172299.qgd	WG1126786,ICAL14731		DOW SHORT	Y
3	L1822087-02,3,250,250	TO15_SFS.qgm	R172300.qgd	WG1126786,ICAL14731		DOW SHORT	Y
4	L1822087-03,3,250,250	TO15_SFS.qgm	R172301.qgd	WG1126786,ICAL14731		DOW SHORT	Y
4	L1822087-03DUP,3,250,250	TO15_SFS.qgm	R172302.qgd	WG1126786,ICAL14731	TO15-LL DUP	DOW SHORT	Y
5	L1822087-04,3,250,250	TO15_SFS.qgm	R172303.qgd	WG1126786,ICAL14731		DOW SHORT	Y
6	L1822087-05,3,250,250	TO15_SFS.qgm	R172304.qgd	WG1126786,ICAL14731		DOW SHORT	Y
7	L1822087-06,3,250,250	TO15_SFS.qgm	R172305.qgd	WG1126786,ICAL14731		DOW SHORT	Y
8	L1822087-07,3,250,250	TO15_SFS.qgm	R172306.qgd	WG1126786,ICAL14731		DOW SHORT	Y
9	L1822087-08,3,250,250	TO15_SFS.qgm	R172307.qgd	WG1126786,ICAL14731		DOW SHORT	Y
10	L1822087-09,3,250,250	TO15_SFS.qgm	R172308.qgd	WG1126786,ICAL14731		DOW SHORT	Y
11	L1822087-10,3,250,250	TO15_SFS.qgm	R172309.qgd	WG1126786,ICAL14731		DOW SHORT	Y
12	L1821916-03,3,250,250	TO15_SFS.qgm	R172310.qgd	WG1126781,ICAL14731		NY	Y
13	L1821916-01,3,250,250	TO15_SFS.qgm	R172311.qgd	WG1126781,ICAL14731		NY	Y
14	L1821916-02,3,250,250	TO15_SFS.qgm	R172312.qgd	WG1126781,ICAL14731		NY	Y
14	L1821916-02DUP,3,250,250	TO15_SFS.qgm	R172313.qgd	WG1126781,ICAL14731	TO15-LL DUP	NY	Y
15	L1821998-02D,3,25,250	TO15_SFS.qgm	R172314.qgd	WG1126781,ICAL14731	VC OVERCAL	STD + NAPH	Y

Alpha Analytical Air Lab
Instrument Run Log

16	L1821998-01D,3,0.50,250	TO15_SFS.qgm	R172315.qgd	WG1126781,ICAL14731	OVERDILUTED	STD + NAPH	Y
16	L1821998-01D,3,0.84,250	TO15_SFS.qgm	R172316.qgd	WG1126781,ICAL14731		STD + NAPH	Y
15	L1821998-02D2,3,10,250	TO15_SFS.qgm	R172317.qgd	WG1126781,ICAL14731	RR FOR CONFIRMATION	STD + NAPH	Y

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