UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5 CHICAGO REGIONAL LABORATORY
536 SOUTH CLARK STREET (ML-10C)
CHICAGO, ILLINOIS 60605

ELECTRONIC LABORATORY DATA PACKAGE
FINAL LEVEL IV
COVER PAGE

LIMS Work order(s):	1912013
Analysis:	Volatiles
Primary Analyst:	Kelsey O'Malley
Date:	01.17.2020
Data Reporting Qualtrax Workflow ID:	20685

Digital Signature of Primary Analyst:

KELSEY O'MALLEY Digitally signed by KELSEY O'MALLEY
Date: 2020.01.17 11:40:59 -06'00'

Digital Signature Agreement: By signing above the primary analyst understands and agrees that they will be held legally bound, obligated, and responsible for the use of their digital signature as they would be by using their hand-written signature.

Organic Data Verification Checklist

CRL SOP #: _____MS023 V6, P&I _____ Site Name: _____SE Rockford GW Contamination_____
CRL Batch #: _____B19L021_____ ESAT TDF #: _____
CRL Work Order #: _____1912013_____ (For ESAT Data Packages)

Analyst Name (print) / Date (QC1): _____Kelsey O'Malley 12.23.19_____
Reviewer Name (print) / Date (QC2): _____DL 1.14.20_____

Directions: This checklist is intended to be used in conjunction with CRL SOP GEN010 and the determinate SOP cited above. To complete the checklist, write **Y** for Yes, **NA** for Not Applicable, or **N** for No for each line item. Provide additional explanation as necessary in the comments section for any non-conformances not described in the case narrative.

	QC1	QC2
SECTION 4. DATA PACKAGE		
Is the data package complete?	_y_	_y_

Verify whether:

- All necessary components identified in Sec. 4 are present
- Bench sheet(s) are complete and all relevant field samples and batch QC samples are listed
- LIMS IDs are included for all reagents and standards; all are valid to use
- All reported field and QC sample data files are present, as well as other supporting data, including instrument calibration and QC data files
- Manual integrations are documented according to SOP GEN029
- Copies of recorded original observations (e.g. any analyst laboratory notebook entries, balance logs, water bath temperature logs, Elpro logs, etc.) are present
- Other required documentation is included (e.g. all instrument sequences supporting reported results, client contact, corrective actions, pen and ink changes, etc.)
- Electronic data archived on R5CRL server and archive pathway is included on this checklist
- Custody transfer and time tracking sheet present (for ESAT data packages)

SECTION 5. ANALYTICAL QUALITY CONTROL AUDIT

Section 5.1 Technical Holding Times and Sample Preservation

Were samples received properly preserved? Were samples prepared and analyzed within specified holding times? If not, are target analytes in affected samples qualified?	_y_	_y_

Section 5.2 Instrument Performance Check

Did instrument performance check(s) meet SOP requirements? If not, are affected results qualified?	_y_	_y_

Verify whether:

- Instrument performance checks were analyzed at minimum frequency specified in the determinative SOP
- Any required tune checks, degradation checks, and tailing factor checks were evaluated against criteria listed in determinative SOP
- Instrument performance checks met SOP criteria

Section 5.3 Initial Calibration

Did initial calibration(s) meet SOP requirements? If not, are affected results qualified?	_y_	_y_

Verify whether:

- Correct data files were used for initial calibration
- Analytes were assigned to peaks correctly

- Target analytes were qualitatively identifiable in the calibration standard at the RL
- Structural isomers with similar mass spectra have unique retention times
- Minimum number of points were included for calibration model(s)
- Initial calibration met SOP criteria
- Initial calibration verification standard met SOP criteria

Section 5.4 Continuing Calibration Verification

Did CCV standards meet SOP criteria? If not, are affected data qualified? _y_ ~~y~~

Verify whether:

- CCV standards were analyzed at minimum frequency specified in determinative SOP
- Peaks were identified and quantified correctly in the CCV standards
- CCV standards were evaluated against the appropriate limit(s) for % difference
- CCVs met SOP criteria

Section 5.5 Internal Standards

Did internal standards meet SOP criteria? If not, are affected data qualified? _y_ ~~y~~

Verify whether:

- Internal standards area summary is correct
- Samples met internal standard response and retention time criteria

Section 5.6 Surrogates

Did surrogates meet SOP criteria? If not, are affected data qualified? _y_ ~~y~~

Verify whether:

- Surrogates were properly identified in field samples and associated QC samples
- Surrogate recoveries met SOP criteria

Section 5.7 Method Blanks

Were the method blank QC requirements met? If not, are affected results qualified or RLs raised? _y_ ~~y~~

Verify whether:

- Target analytes measured in method blank(s) are qualitatively identifiable
- Target analyte results in field samples and other associated QC samples are qualified when exceeding SOP-specified tolerance of the method blank result

Section 5.8 RL Verification

Are RL verification QC criteria met? If not, are affected sample results qualified or RLs raised, as appropriate? _y_ ~~y~~

Verify whether:

- Target analytes were qualitatively identified in RL verification QC sample(s)
- Target analytes were recovered acceptably at RLs listed in SOP

Section 5.9 Blank Spikes

Are target analyte recoveries acceptable in BS/BSD samples? If not, are affected data qualified? _y_ ~~y~~

Verify whether:

- Target analytes were qualitatively identified
- Analyte recovery and/or precision met SOP criteria

Section 5.10 Matrix Spikes

Are target analyte recoveries acceptable in MS/MSD samples? If not, are affected data qualified? _na_ na

Verify whether:

- Target analytes were qualitatively identified

- Analyte recovery and/or precision met SOP criteria
- Spike level is valid for evaluation based on native sample results

Section 5.11 Duplicates

Do duplicate QC samples meet RPD criteria? If not, are affected data qualified? _NA_ na_

Verify whether:

- Target analytes identified in the field sample were also present in the duplicate
- Analyte measurement precision met SOP criteria

Section 5.12 Field Samples

Are results reported correctly? _y_ ~~y~~

Verify whether:

- When multiple analyses/dilutions are included, reported results are indicated
- Reported results are within the calibrated concentration range
- Potential for carryover contamination from any high level samples was evaluated
- Qualitative ID criteria are met for target analytes and any TICs

Section 5.13 Qualitative Identification

Do target analytes in samples meet qualitative identification criteria? If not, are affected data qualified? _y_ ~~y~~

Verify whether:

- Target analytes in samples fall within reference retention time and ion ratio windows defined by determinative SOP
- Target analytes in samples match reference mass spectra, when available

SECTION 6. CASE NARRATIVE REVIEW

Does the case narrative contain all necessary information? _y_ ~~y~~

Verify that:

- All QA/QC issues identified in Sec. 5 are noted or descriptive data qualifiers are used and a disclaimer added
- Case narrative work instruction QA-WI006 was followed
- Any special requests for the project are addressed
- Any relevant pen and ink changes are referenced
- Data verification is addressed, including evaluation relative to any defined project DQOs
- Statement included if data reported below RL

SECTION 7. DATA VERIFICATION

Section 7.1 Review of Instrument Data and Calculations

Does instrument data support all reported target analytes and TICs? _y_ ~~y~~

Verify that:

- Data files were processed with the correct calibration file
- Peaks are properly integrated
- Calculations are correct
- Approved version of any calculation spreadsheets was used (as applicable)

Section 7.2 LIMS Data Entry

Data in the LIMS Data Entry Table is complete and correct? _y_ ~~y~~

Verify that:

- Sample results, dilution factors, and supporting information are in agreement with

quantitation reports

- Data qualifiers are applied correctly, including the 'Q' qualifier for analytes that exceed the SOP-specified control limits in QC samples
- All analytes to be reported are marked correctly and locked
- Target analyte RLs, control limits, and units are reproduced correctly from SOP, approved pen and ink change, or QAPP/SAP
- Calculations are correct
- When applicable, % dry solids data was at least 'Reviewed' in LIMS

Section 7.3 LIMS Analysis Report

Is the report complete and correct? _y_ ~~y~~

Verify that:

- Results for all field samples and QC samples are present and complete
- Report and any EDDs are consistent with data entry table
- Approved case narrative is included
- L-A-B accreditation logo is used appropriately, correct report template was used
- Any transcribed results (e.g. PT samples) are consistent with the LIMS report

SECTION 7. DEMONSTRATION VERIFICATION

Is a current ADOC for this test on file? Qualtrax ID__19334, 19652____ _y_ ~~y~~

COMMENTS

_____

_____

_____

_____

_____

_____

R5CRL Data Path: \\204.46.201.26\R5CRL\VOL1\Projects (New File Structure)\SE Rockford GW Contamination\4. MS \1912013

Data Path Template: \\204.46.201.26\R5CRL\VOL1\GROUP\ANALYSIS\YEAR\WORK ORDER #

Analyst Signature / Date: Kelsey O'Malley 12.31.19

"All concerns with this data package have been resolved to the satisfaction of the reviewer. The reviewer, by signing, verifies that this package is complete and supports the reported results in accordance with the CRL Quality Management Plan and any applicable standard operating procedures."

Reviewer Signature / Date: Danita Lacy 1.14.20

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

US EPA Region 5 LSASD Analytical Services Branch

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: **1/17/2020**

Title: **ASB Data Report for SE Rockford GW Contamination**

To: **Superfund, US EPA Region 5**
77 West Jackson Boulevard
Chicago, IL 60604

From: **Kelsey O'Malley, Chemist**
omalley.kelsey@epa.gov
US EPA Region 5 LSASD Analytical Services Branch

The results reported in this document apply to the samples as received and relate only to the items tested. The data transmitted under this cover memo successfully passed the data review process and applicable Analytical Services Branch (ASB) laboratory Standard Operating Procedures. In accordance with the EPA QA/G-8 *Guidance on Environmental Data Verification and Data Validation*, ASB performs data verification on all the data generated internally. ASB does not perform data validation or quality assessment procedures.

This report was reviewed and the information provided herein accurately represents the analysis performed.

Kelsey O'Malley

Please contact the analyst with any technical report issues, Amanda Wroble at (312)-353-0375 for sample project concerns, and Robert Snyder at (312)-353-9083 with data transmittal questions. Thank you.

Attached are Results for: **SE Rockford GW Contamination**

Analyses included in this report:

VOA - 8260

Report Name: 1912013 VOA - 8260 FINAL Jan 17 20 1131

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Accredited Analyses included in this Report

Method: ***EPA 8260C in Water***
Analysis: ***VOA - 8260***

Analyte	Certifications
Dichlorodifluoromethane	ISO/IEC 17025:2005
Chloromethane	ISO/IEC 17025:2005
Vinyl chloride	ISO/IEC 17025:2005
Bromomethane	ISO/IEC 17025:2005
Chloroethane	ISO/IEC 17025:2005
Trichlorofluoromethane	ISO/IEC 17025:2005
1,1-Dichloroethene	ISO/IEC 17025:2005
Methylene chloride	ISO/IEC 17025:2005
trans-1,2-Dichloroethene	ISO/IEC 17025:2005
1,1-Dichloroethane	ISO/IEC 17025:2005
2,2-Dichloropropane	ISO/IEC 17025:2005
cis-1,2-Dichloroethene	ISO/IEC 17025:2005
Bromochloromethane	ISO/IEC 17025:2005
Chloroform	ISO/IEC 17025:2005
1,1,1-Trichloroethane	ISO/IEC 17025:2005
Carbon tetrachloride	ISO/IEC 17025:2005
1,1-Dichloropropene	ISO/IEC 17025:2005
Benzene	ISO/IEC 17025:2005

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Accredited Analyses included in this Report

Method: ***EPA 8260C in Water***
Analysis: ***VOA - 8260***

Analyte	Certifications
1,2-Dichloroethane	ISO/IEC 17025:2005
Trichloroethene	ISO/IEC 17025:2005
1,2-Dichloropropane	ISO/IEC 17025:2005
Dibromomethane	ISO/IEC 17025:2005
Bromodichloromethane	ISO/IEC 17025:2005
cis-1,3-Dichloropropene	ISO/IEC 17025:2005
Toluene	ISO/IEC 17025:2005
trans-1,3-Dichloropropene	ISO/IEC 17025:2005
1,1,2-Trichloroethane	ISO/IEC 17025:2005
Tetrachloroethene	ISO/IEC 17025:2005
1,3-Dichloropropane	ISO/IEC 17025:2005
Dibromochloromethane	ISO/IEC 17025:2005
1,2-Dibromoethane (EDB)	ISO/IEC 17025:2005
Chlorobenzene	ISO/IEC 17025:2005
1,1,1,2-Tetrachloroethane	ISO/IEC 17025:2005
Ethylbenzene	ISO/IEC 17025:2005
m+p-Xylene	ISO/IEC 17025:2005
o-Xylene	ISO/IEC 17025:2005
Styrene	ISO/IEC 17025:2005
Bromoform	ISO/IEC 17025:2005

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Accredited Analyses included in this Report

Method: ***EPA 8260C in Water***
Analysis: ***VOA - 8260***

Analyte	Certifications
Isopropylbenzene	ISO/IEC 17025:2005
Bromobenzene	ISO/IEC 17025:2005
1,2,3-Trichloropropane	ISO/IEC 17025:2005
n-Propylbenzene	ISO/IEC 17025:2005
2-Chlorotoluene	ISO/IEC 17025:2005
1,3,5-Trimethylbenzene	ISO/IEC 17025:2005
4-Chlorotoluene	ISO/IEC 17025:2005
1,1,2,2-Tetrachloroethane	ISO/IEC 17025:2005
tert-Butylbenzene	ISO/IEC 17025:2005
1,2,4-Trimethylbenzene	ISO/IEC 17025:2005
sec-Butylbenzene	ISO/IEC 17025:2005
1,3-Dichlorobenzene	ISO/IEC 17025:2005
p-Isopropyltoluene	ISO/IEC 17025:2005
1,4-Dichlorobenzene	ISO/IEC 17025:2005
1,2-Dichlorobenzene	ISO/IEC 17025:2005
n-Butylbenzene	ISO/IEC 17025:2005
1,2-Dibromo-3-chloropropane	ISO/IEC 17025:2005
1,2,4-Trichlorobenzene	ISO/IEC 17025:2005
Hexachlorobutadiene	ISO/IEC 17025:2005
Naphthalene	ISO/IEC 17025:2005

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Accredited Analyses included in this Report

Method: ***EPA 8260C in Water***
Analysis: ***VOA - 8260***

Analyte	Certifications
1,2,3-Trichlorobenzene	ISO/IEC 17025:2005

Analytes not listed above are not accredited by ANAB.

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Analysis Case Narrative

General Information

Seven water samples were received by the Analytical Services Branch (ASB) from December 13, 2019 and analyzed from December 13 to 20th for volatile organic compounds (VOCs). Field Samples fulfilled holding time for preservation (acidification occurred in the field) and analysis (14 days). One field blank (1912013-01) and one trip blank (1912013-07) were included. The designated analyst for these samples, Kelsey O'Malley, can be reached at (312) 353-2735.

Sample Analysis and Results

Sample preparation and analysis occurred on the Atomx Purge and Trap and GC/MS#11 instrumentation in accordance with the ASB standard operating procedure (SOP) MS023, Version 6 (Based on EPA Method SW-846:8260C) and Pen and Ink #18916. Data review was performed according to the guidelines in ASB SOP MS037 v.5. Customer-specified data needs are listed in the Quality Assurance Project Plan (QAPP) for Southeast Rockford Groundwater Contamination Superfund Site Source Area 7, dated November 15, 2019. The data reported herein meets the requirements referenced in the SOPs and the laboratory specifications stated in the project plan, with the exceptions noted in the quality control section below.

None of the samples received were designated as the matrix spike (MS) QC sample. All vials were used throughout the analysis, so matrix spike and matrix spike duplicate samples are not included in this work order.

The calibration was completed in a different work order (1912011) and batch (B19L015).

Quality Controls

Initial Calibration Verification (ICV)

Dichlorodifluroromethane did not meet percent deviation requirements in the ICV sample and is flagged as an estimate ('J,[ICV]').

Method Reporting Limit (MRL)

In the MRL QC check, carbon tetrachloride fell below recovery limits. The RL is raised to the next documented level of 25ug/L.

Blank Spike and Blank Spike Duplicate (BS and BSD)

2,2-Dichloropropane failed recovery limits in the BS and BSD samples. The analyte is flagged as an estimate in field samples (J, [LCS]').

Surrogates

4-Bromofluorobenzene did not meet recovery limits in 1912013-05RE1, but all other surrogates met SOP requirements, so no additional qualifying flags were added.

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

WORK ORDER **Printed: 12/16/2019 7:59:25AM**

1912013

US EPA Region 5 LSASD Analytical Services Branch

Client: **Superfund, US EPA Region 5** **Project Manager:** **Angela Ockrassa Davis**
Project: **SE Rockford GW Contamination** **Project Number:** **[none]**

Report To:

Karen Kirchner	77 West Jackson Boulevard	Phone: (312) 353-2310
Superfund, US EPA Region 5	Chicago, IL 60604	Fax: (312) 886-6171

Date Due:	Jan-27-20 15:00 (45 day TAT)		
Received By:	Robert Snyder	Date Received:	Dec-13-19 11:00
Logged In By:	Kelsey O'Malley	Date Logged In:	Dec-13-19 13:20

Sample tags/labels	**Yes**	**Work Order Comments:**
Seals Intact	**Yes**	Copy/Relog from 1912009.
Received on ice	**Yes**	
Paperwork Included	**Yes**	

Cooler(s) information:
Default Cooler - 0.80 C

Sample ID: **1912013-01** **Sampled:** **Dec-12-19 12:05** **Matrix:** **Water**

Sample Name: **A7-FB003-191212** **Sample Location/Comments:** **Field Blank**

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-26-19 12:05	

Sample ID: **1912013-02** **Sampled:** **Dec-12-19 10:45** **Matrix:** **Water**

Sample Name: **A7-MW105C-191212** **Sample Location/Comments:** **A7-MW105C**

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-26-19 10:45	

Sample ID: **1912013-03** **Sampled:** **Dec-12-19 10:05** **Matrix:** **Water**

Sample Name: **A7-MW105D-191212** **Sample Location/Comments:** **A7-MW105D**

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-26-19 10:05	

1912013

US EPA Region 5 LSASD Analytical Services Branch

Client: Superfund, US EPA Region 5
Project: SE Rockford GW Contamination
Project Manager: Angela Ockrassa Davis
Project Number: [none]

Sample ID: 1912013-04 **Sampled:** Dec-12-19 10:10 **Matrix:** Water

Sample Name: A7-MW112A-191212 **Sample Location/Comments:** A7-MW112A

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-26-19 10:10	

Sample ID: 1912013-05 **Sampled:** Dec-12-19 11:45 **Matrix:** Water

Sample Name: A7-MW134A-191212 **Sample Location/Comments:** A7-MW134A

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-26-19 11:45	

Sample ID: 1912013-06 **Sampled:** Dec-12-19 09:30 **Matrix:** Water

Sample Name: A7-MW145-191212 **Sample Location/Comments:** A7-MW145

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-26-19 09:30	

Sample ID: 1912013-07 **Sampled:** Dec-12-19 08:35 **Matrix:** Water

Sample Name: A7-TB003-191212 **Sample Location/Comments:** Trip Blank

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-26-19 08:35	

WORK ORDER

Printed: 12/16/2019 7:59:25AM

1912013

US EPA Region 5 LSASD Analytical Services Branch

Client:	**Superfund, US EPA Region 5**	**Project Manager:**	**Angela Ockrassa Davis**
Project:	**SE Rockford GW Contamination**	**Project Number:**	**[none]**

REVIEWED

By Amanda Wroble at 8:00 am, Dec 16, 2019

Reviewed By Date

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A7-FB003-191212 (1912013-01) **Matrix: Water** **Sampled: Dec-12-19 12:05** **Received: Dec-13-19 11:00**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U	(ICV), J		2.00	ug/L	1	B19L021	Dec-16-19	Dec-17-19
Chloromethane	U			2.00	"	"	"	"	"
Vinyl chloride	U			2.00	"	"	"	"	"
Bromomethane	U			2.00	"	"	"	"	"
Chloroethane	U			2.00	"	"	"	"	"
Trichlorofluoromethane	U			2.00	"	"	"	"	"
1,1-Dichloroethene	U			2.00	"	"	"	"	"
Methylene chloride	U			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	U			2.00	"	"	"	"	"
1,1-Dichloroethane	U			2.00	"	"	"	"	"
2,2-Dichloropropane	U	(LCS), J		2.00	"	"	"	"	"
cis-1,2-Dichloroethene	U			2.00	"	"	"	"	"
Bromochloromethane	U			2.00	"	"	"	"	"
Chloroform	U			2.00	"	"	"	"	"
1,1,1-Trichloroethane	U			2.00	"	"	"	"	"
Carbon tetrachloride	U			2.00	"	"	"	"	"
1,1-Dichloropropene	U			2.00	"	"	"	"	"
Benzene	U			2.00	"	"	"	"	"
1,2-Dichloroethane	U			2.00	"	"	"	"	"
Trichloroethene	U			2.00	"	"	"	"	"
1,2-Dichloropropane	U			2.00	"	"	"	"	"
Dibromomethane	U			2.00	"	"	"	"	"
Bromodichloromethane	U			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	U			2.00	"	"	"	"	"
Toluene	U			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	U			2.00	"	"	"	"	"
1,1,2-Trichloroethane	U			2.00	"	"	"	"	"
Tetrachloroethene	U			2.00	"	"	"	"	"
1,3-Dichloropropane	U			2.00	"	"	"	"	"
Dibromochloromethane	U			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			2.00	"	"	"	"	"
Chlorobenzene	U			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			2.00	"	"	"	"	"
Ethylbenzene	U			2.00	"	"	"	"	"
m+p-Xylene	U			4.00	"	"	"	"	"
o-Xylene	U			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A7-FB003-191212 (1912013-01) **Matrix: Water** **Sampled: Dec-12-19 12:05** **Received: Dec-13-19 11:00**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Styrene	U			2.00	ug/L	1	B19L021	Dec-16-19	Dec-17-19
Bromoform	U			2.00	"	"	"	"	"
Isopropylbenzene	U			2.00	"	"	"	"	"
Bromobenzene	U			2.00	"	"	"	"	"
1,2,3-Trichloropropane	U			2.00	"	"	"	"	"
n-Propylbenzene	U			2.00	"	"	"	"	"
2-Chlorotoluene	U			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	U			2.00	"	"	"	"	"
4-Chlorotoluene	U			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U			2.00	"	"	"	"	"
tert-Butylbenzene	U			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	U			2.00	"	"	"	"	"
sec-Butylbenzene	U			2.00	"	"	"	"	"
1,3-Dichlorobenzene	U			2.00	"	"	"	"	"
p-Isopropyltoluene	U			2.00	"	"	"	"	"
1,4-Dichlorobenzene	U			2.00	"	"	"	"	"
1,2-Dichlorobenzene	U			2.00	"	"	"	"	"
n-Butylbenzene	U			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	U			2.00	"	"	"	"	"
Hexachlorobutadiene	U			2.00	"	"	"	"	"
Naphthalene	U			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	U			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.1	*100%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.1	*99.9%*	*84-122*	"	"	"
Toluene-d8	9.97	*99.7%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.03	*90.3%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A7-MW105C-191212 (1912013-02RE1) **Matrix: Water** **Sampled: Dec-12-19 10:45** **Received: Dec-13-19 11:00**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICV), J		2.00	ug/L	1	B19L021	Dec-16-19	Dec-18-19
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**6.31**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**24.6**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**8.04**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**6.60**			2.00	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**4.20**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A7-MW105C-191212 (1912013-02RE1) **Matrix: Water** **Sampled: Dec-12-19 10:45** **Received: Dec-13-19 11:00**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromoform	**U**			2.00	ug/L	1	B19L021	Dec-16-19	Dec-18-19
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.85	*97.9%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.72	*96.4%*	*84-122*	"	"	"
Toluene-d8	9.64	*96.4%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.09	*90.9%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A7-MW105D-191212 (1912013-03RE1) **Matrix: Water** **Sampled: Dec-12-19 10:05** **Received: Dec-13-19 11:00**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U	(ICV), J		2.00	ug/L	1	B19L021	Dec-16-19	Dec-18-19
Chloromethane	U			2.00	"	"	"	"	"
Vinyl chloride	U			2.00	"	"	"	"	"
Bromomethane	U			2.00	"	"	"	"	"
Chloroethane	U			2.00	"	"	"	"	"
Trichlorofluoromethane	U			2.00	"	"	"	"	"
1,1-Dichloroethene	U			2.00	"	"	"	"	"
Methylene chloride	U			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	U			2.00	"	"	"	"	"
1,1-Dichloroethane	U			2.00	"	"	"	"	"
2,2-Dichloropropane	U	(LCS), J		2.00	"	"	"	"	"
cis-1,2-Dichloroethene	U			2.00	"	"	"	"	"
Bromochloromethane	U			2.00	"	"	"	"	"
Chloroform	U			2.00	"	"	"	"	"
1,1,1-Trichloroethane	U			2.00	"	"	"	"	"
Carbon tetrachloride	U			2.00	"	"	"	"	"
1,1-Dichloropropene	U			2.00	"	"	"	"	"
Benzene	U			2.00	"	"	"	"	"
1,2-Dichloroethane	U			2.00	"	"	"	"	"
Trichloroethene	U			2.00	"	"	"	"	"
1,2-Dichloropropane	U			2.00	"	"	"	"	"
Dibromomethane	U			2.00	"	"	"	"	"
Bromodichloromethane	U			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	U			2.00	"	"	"	"	"
Toluene	U			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	U			2.00	"	"	"	"	"
1,1,2-Trichloroethane	U			2.00	"	"	"	"	"
Tetrachloroethene	U			2.00	"	"	"	"	"
1,3-Dichloropropane	U			2.00	"	"	"	"	"
Dibromochloromethane	U			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			2.00	"	"	"	"	"
Chlorobenzene	U			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			2.00	"	"	"	"	"
Ethylbenzene	U			2.00	"	"	"	"	"
m+p-Xylene	U			4.00	"	"	"	"	"
o-Xylene	U			2.00	"	"	"	"	"
Styrene	U			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A7-MW105D-191212 (1912013-03RE1) **Matrix: Water** **Sampled: Dec-12-19 10:05** **Received: Dec-13-19 11:00**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromoform	**U**			2.00	ug/L	1	B19L021	Dec-16-19	Dec-18-19
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.77	*97.2%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.52	*94.5%*	*84-122*	"	"	"
Toluene-d8	9.54	*95.4%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.06	*90.6%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A7-MW112A-191212 (1912013-04RE1) **Matrix: Water** **Sampled: Dec-12-19 10:10** **Received: Dec-13-19 11:00**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICV), J		2.00	ug/L	1	B19L021	Dec-16-19	Dec-18-19
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**8.43**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A7-MW112A-191212 (1912013-04RE1) **Matrix: Water** **Sampled: Dec-12-19 10:10** **Received: Dec-13-19 11:00**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromoform	**U**			2.00	ug/L	1	B19L021	Dec-16-19	Dec-18-19
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.3	*103%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.80	*97.2%*	*84-122*	"	"	"
Toluene-d8	10.1	*101%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.21	*92.1%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A7-MW134A-191212 (1912013-05) **Matrix: Water** **Sampled: Dec-12-19 11:45** **Received: Dec-13-19 11:00**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1-Dichloroethane	**149**			100	ug/L	50	B19L021	Dec-16-19	Dec-17-19
cis-1,2-Dichloroethene	**255**			100	"	"	"	"	"
1,1,1-Trichloroethane	**155**			100	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.9	*108%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.93	*98.5%*	*84-122*	"	"	"
Toluene-d8	10.2	*102%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.51	*95.1%*	*84-108*	"	"	"

A7-MW134A-191212 (1912013-05RE1) **Matrix: Water** **Sampled: Dec-12-19 11:45** **Received: Dec-13-19 11:00**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICV), J		4.00	ug/L	2	B19L021	Dec-16-19	Dec-18-19
Chloromethane	**U**			4.00	"	"	"	"	"
Vinyl chloride	**5.16**			4.00	"	"	"	"	"
Bromomethane	**U**			4.00	"	"	"	"	"
Chloroethane	**23.9**			4.00	"	"	"	"	"
Trichlorofluoromethane	**U**			4.00	"	"	"	"	"
1,1-Dichloroethene	**13.8**			4.00	"	"	"	"	"
Methylene chloride	**U**			4.00	"	"	"	"	"
trans-1,2-Dichloroethene	**13.8**			4.00	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		4.00	"	"	"	"	"
Bromochloromethane	**U**			4.00	"	"	"	"	"
Chloroform	**U**			4.00	"	"	"	"	"
Carbon tetrachloride	**U**			4.00	"	"	"	"	"
1,1-Dichloropropene	**U**			4.00	"	"	"	"	"
Benzene	**U**			4.00	"	"	"	"	"
1,2-Dichloroethane	**U**			4.00	"	"	"	"	"
Trichloroethene	**6.60**			4.00	"	"	"	"	"
1,2-Dichloropropane	**U**			4.00	"	"	"	"	"
Dibromomethane	**U**			4.00	"	"	"	"	"
Bromodichloromethane	**U**			4.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			4.00	"	"	"	"	"
Toluene	**U**			4.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			4.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			4.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A7-MW134A-191212 (1912013-05RE1) **Matrix: Water** **Sampled: Dec-12-19 11:45** **Received: Dec-13-19 11:00**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Tetrachloroethene	**14.6**			4.00	ug/L	2	B19L021	Dec-16-19	Dec-18-19
1,3-Dichloropropane	**U**			4.00	"	"	"	"	"
Dibromochloromethane	**U**			4.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			4.00	"	"	"	"	"
Chlorobenzene	**U**			4.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			4.00	"	"	"	"	"
Ethylbenzene	**U**			4.00	"	"	"	"	"
m+p-Xylene	**U**			8.00	"	"	"	"	"
o-Xylene	**U**			4.00	"	"	"	"	"
Styrene	**U**			4.00	"	"	"	"	"
Bromoform	**U**			4.00	"	"	"	"	"
Isopropylbenzene	**U**			4.00	"	"	"	"	"
Bromobenzene	**U**			4.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			4.00	"	"	"	"	"
n-Propylbenzene	**U**			4.00	"	"	"	"	"
2-Chlorotoluene	**U**			4.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			4.00	"	"	"	"	"
4-Chlorotoluene	**U**			4.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			4.00	"	"	"	"	"
tert-Butylbenzene	**U**			4.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			4.00	"	"	"	"	"
sec-Butylbenzene	**U**			4.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			4.00	"	"	"	"	"
p-Isopropyltoluene	**U**			4.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			4.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			4.00	"	"	"	"	"
n-Butylbenzene	**U**			4.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			4.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			4.00	"	"	"	"	"
Hexachlorobutadiene	**U**			4.00	"	"	"	"	"
Naphthalene	**U**			4.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			4.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.2	*102%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.74	*96.6%*	*84-122*	"	"	"
Toluene-d8	10.2	*102%*	*88-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A7-MW134A-191212 (1912013-05RE1) **Matrix: Water** **Sampled: Dec-12-19 11:45** **Received: Dec-13-19 11:00**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed

Surrogate	Result		%REC	%REC Limits	Batch	Prepared	Analyzed
4-Bromofluorobenzene	8.30	Q	*83.0%*	*84-108*	*B19L021*	*Dec-16-19*	*Dec-18-19*

A7-MW145-191212 (1912013-06RE1) **Matrix: Water** **Sampled: Dec-12-19 09:30** **Received: Dec-13-19 11:00**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICV), J		2.00	ug/L	1	B19L021	Dec-16-19	Dec-18-19
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**42.2**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**18.7**			2.00	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**32.7**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A7-MW145-191212 (1912013-06RE1) **Matrix: Water** **Sampled: Dec-12-19 09:30** **Received: Dec-13-19 11:00**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dibromoethane (EDB)	**U**			2.00	ug/L	1	B19L021	Dec-16-19	Dec-18-19
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.3	*102%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.83	*97.5%*	*84-122*	"	"	"
Toluene-d8	9.78	*97.8%*	*88-108*	"	"	"
4-Bromofluorobenzene	8.86	*88.6%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A7-TB003-191212 (1912013-07) **Matrix: Water** **Sampled: Dec-12-19 08:35** **Received: Dec-13-19 11:00**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U	(ICV), J		2.00	ug/L	1	B19L021	Dec-16-19	Dec-17-19
Chloromethane	U			2.00	"	"	"	"	"
Vinyl chloride	U			2.00	"	"	"	"	"
Bromomethane	U			2.00	"	"	"	"	"
Chloroethane	U			2.00	"	"	"	"	"
Trichlorofluoromethane	U			2.00	"	"	"	"	"
1,1-Dichloroethene	U			2.00	"	"	"	"	"
Methylene chloride	U			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	U			2.00	"	"	"	"	"
1,1-Dichloroethane	U			2.00	"	"	"	"	"
2,2-Dichloropropane	U	(LCS), J		2.00	"	"	"	"	"
cis-1,2-Dichloroethene	U			2.00	"	"	"	"	"
Bromochloromethane	U			2.00	"	"	"	"	"
Chloroform	U			2.00	"	"	"	"	"
1,1,1-Trichloroethane	U			2.00	"	"	"	"	"
Carbon tetrachloride	U			2.00	"	"	"	"	"
1,1-Dichloropropene	U			2.00	"	"	"	"	"
Benzene	U			2.00	"	"	"	"	"
1,2-Dichloroethane	U			2.00	"	"	"	"	"
Trichloroethene	U			2.00	"	"	"	"	"
1,2-Dichloropropane	U			2.00	"	"	"	"	"
Dibromomethane	U			2.00	"	"	"	"	"
Bromodichloromethane	U			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	U			2.00	"	"	"	"	"
Toluene	U			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	U			2.00	"	"	"	"	"
1,1,2-Trichloroethane	U			2.00	"	"	"	"	"
Tetrachloroethene	U			2.00	"	"	"	"	"
1,3-Dichloropropane	U			2.00	"	"	"	"	"
Dibromochloromethane	U			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			2.00	"	"	"	"	"
Chlorobenzene	U			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			2.00	"	"	"	"	"
Ethylbenzene	U			2.00	"	"	"	"	"
m+p-Xylene	U			4.00	"	"	"	"	"
o-Xylene	U			2.00	"	"	"	"	"
Styrene	U			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A7-TB003-191212 (1912013-07) **Matrix: Water** **Sampled: Dec-12-19 08:35** **Received: Dec-13-19 11:00**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromoform	U			2.00	ug/L	1	B19L021	Dec-16-19	Dec-17-19
Isopropylbenzene	U			2.00	"	"	"	"	"
Bromobenzene	U			2.00	"	"	"	"	"
1,2,3-Trichloropropane	U			2.00	"	"	"	"	"
n-Propylbenzene	U			2.00	"	"	"	"	"
2-Chlorotoluene	U			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	U			2.00	"	"	"	"	"
4-Chlorotoluene	U			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U			2.00	"	"	"	"	"
tert-Butylbenzene	U			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	U			2.00	"	"	"	"	"
sec-Butylbenzene	U			2.00	"	"	"	"	"
1,3-Dichlorobenzene	U			2.00	"	"	"	"	"
p-Isopropyltoluene	U			2.00	"	"	"	"	"
1,4-Dichlorobenzene	U			2.00	"	"	"	"	"
1,2-Dichlorobenzene	U			2.00	"	"	"	"	"
n-Butylbenzene	U			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	U			2.00	"	"	"	"	"
Hexachlorobutadiene	U			2.00	"	"	"	"	"
Naphthalene	U			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	U			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.1	*100%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.70	*96.2%*	*84-122*	"	"	"
Toluene-d8	9.53	*95.3%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.08	*90.8%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified) - Quality Control

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L021 - Volatiles

Blank (B19L021-BLK1) **Prepared: Dec-16-19 Analyzed: Dec-17-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	U			2.00	ug/L						
Chloromethane	U			2.00	"						
Vinyl chloride	U			2.00	"						
Bromomethane	U			2.00	"						
Chloroethane	U			2.00	"						
Trichlorofluoromethane	U			2.00	"						
1,1-Dichloroethene	U			2.00	"						
Methylene chloride	U			2.00	"						
trans-1,2-Dichloroethene	U			2.00	"						
1,1-Dichloroethane	U			2.00	"						
2,2-Dichloropropane	U			2.00	"						
cis-1,2-Dichloroethene	U			2.00	"						
Bromochloromethane	U			2.00	"						
Chloroform	U			2.00	"						
1,1,1-Trichloroethane	U			2.00	"						
Carbon tetrachloride	U			2.00	"						
1,1-Dichloropropene	U			2.00	"						
Benzene	U			2.00	"						
1,2-Dichloroethane	U			2.00	"						
Trichloroethene	U			2.00	"						
1,2-Dichloropropane	U			2.00	"						
Dibromomethane	U			2.00	"						
Bromodichloromethane	U			2.00	"						
cis-1,3-Dichloropropene	U			2.00	"						
Toluene	U			2.00	"						
trans-1,3-Dichloropropene	U			2.00	"						
1,1,2-Trichloroethane	U			2.00	"						
Tetrachloroethene	U			2.00	"						
1,3-Dichloropropane	U			2.00	"						
Dibromochloromethane	U			2.00	"						
1,2-Dibromoethane (EDB)	U			2.00	"						
Chlorobenzene	U			2.00	"						

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified) - Quality Control

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L021 - Volatiles

Blank (B19L021-BLK1) **Prepared: Dec-16-19 Analyzed: Dec-17-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	U			2.00	ug/L						
Ethylbenzene	U			2.00	"						
m+p-Xylene	U			4.00	"						
o-Xylene	U			2.00	"						
Styrene	U			2.00	"						
Bromoform	U			2.00	"						
Isopropylbenzene	U			2.00	"						
Bromobenzene	U			2.00	"						
1,2,3-Trichloropropane	U			2.00	"						
n-Propylbenzene	U			2.00	"						
2-Chlorotoluene	U			2.00	"						
1,3,5-Trimethylbenzene	U			2.00	"						
4-Chlorotoluene	U			2.00	"						
1,1,2,2-Tetrachloroethane	U			2.00	"						
tert-Butylbenzene	U			2.00	"						
1,2,4-Trimethylbenzene	U			2.00	"						
sec-Butylbenzene	U			2.00	"						
1,3-Dichlorobenzene	U			2.00	"						
p-Isopropyltoluene	U			2.00	"						
1,4-Dichlorobenzene	U			2.00	"						
1,2-Dichlorobenzene	U			2.00	"						
n-Butylbenzene	U			2.00	"						
1,2-Dibromo-3-chloropropane	U			2.00	"						
1,2,4-Trichlorobenzene	U			2.00	"						
Hexachlorobutadiene	U			2.00	"						
Naphthalene	U			2.00	"						
1,2,3-Trichlorobenzene	U			2.00	"						
Surrogate: Dibromofluoromethane	*10.0*				*"*	*10.06*		*99.6%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*10.1*				*"*	*10.08*		*99.9%*	*84-122*		
Surrogate: Toluene-d8	*9.87*				*"*	*10.00*		*98.7%*	*88-108*		
Surrogate: 4-Bromofluorobenzene	*9.29*				*"*	*10.00*		*92.9%*	*84-108*		

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified) - Quality Control

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L021 - Volatiles

Blank (B19L021-BLK2) **Prepared: Dec-16-19 Analyzed: Dec-17-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	U			2.00	ug/L						
Chloromethane	U			2.00	"						
Vinyl chloride	U			2.00	"						
Bromomethane	U			2.00	"						
Chloroethane	U			2.00	"						
Trichlorofluoromethane	U			2.00	"						
1,1-Dichloroethene	U			2.00	"						
Methylene chloride	U			2.00	"						
trans-1,2-Dichloroethene	U			2.00	"						
1,1-Dichloroethane	U			2.00	"						
2,2-Dichloropropane	U			2.00	"						
cis-1,2-Dichloroethene	U			2.00	"						
Bromochloromethane	U			2.00	"						
Chloroform	U			2.00	"						
1,1,1-Trichloroethane	U			2.00	"						
Carbon tetrachloride	U			2.00	"						
1,1-Dichloropropene	U			2.00	"						
Benzene	U			2.00	"						
1,2-Dichloroethane	U			2.00	"						
Trichloroethene	U			2.00	"						
1,2-Dichloropropane	U			2.00	"						
Dibromomethane	U			2.00	"						
Bromodichloromethane	U			2.00	"						
cis-1,3-Dichloropropene	U			2.00	"						
Toluene	U			2.00	"						
trans-1,3-Dichloropropene	U			2.00	"						
1,1,2-Trichloroethane	U			2.00	"						
Tetrachloroethene	U			2.00	"						
1,3-Dichloropropane	U			2.00	"						
Dibromochloromethane	U			2.00	"						
1,2-Dibromoethane (EDB)	U			2.00	"						
Chlorobenzene	U			2.00	"						

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified) - Quality Control

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L021 - Volatiles

Blank (B19L021-BLK2) **Prepared: Dec-16-19 Analyzed: Dec-17-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	U			2.00	ug/L						
Ethylbenzene	U			2.00	"						
m+p-Xylene	U			4.00	"						
o-Xylene	U			2.00	"						
Styrene	U			2.00	"						
Bromoform	U			2.00	"						
Isopropylbenzene	U			2.00	"						
Bromobenzene	U			2.00	"						
1,2,3-Trichloropropane	U			2.00	"						
n-Propylbenzene	U			2.00	"						
2-Chlorotoluene	U			2.00	"						
1,3,5-Trimethylbenzene	U			2.00	"						
4-Chlorotoluene	U			2.00	"						
1,1,2,2-Tetrachloroethane	U			2.00	"						
tert-Butylbenzene	U			2.00	"						
1,2,4-Trimethylbenzene	U			2.00	"						
sec-Butylbenzene	U			2.00	"						
1,3-Dichlorobenzene	U			2.00	"						
p-Isopropyltoluene	U			2.00	"						
1,4-Dichlorobenzene	U			2.00	"						
1,2-Dichlorobenzene	U			2.00	"						
n-Butylbenzene	U			2.00	"						
1,2-Dibromo-3-chloropropane	U			2.00	"						
1,2,4-Trichlorobenzene	U			2.00	"						
Hexachlorobutadiene	U			2.00	"						
Naphthalene	U			2.00	"						
1,2,3-Trichlorobenzene	U			2.00	"						
Surrogate: Dibromofluoromethane	*9.79*				*"*	*10.06*		*97.4%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*9.71*				*"*	*10.08*		*96.3%*	*84-122*		
Surrogate: Toluene-d8	*9.80*				*"*	*10.00*		*98.0%*	*88-108*		
Surrogate: 4-Bromofluorobenzene	*9.22*				*"*	*10.00*		*92.2%*	*84-108*		

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified) - Quality Control

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L021 - Volatiles

Blank (B19L021-BLK3) **Prepared: Dec-16-19 Analyzed: Dec-18-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	U			2.00	ug/L						
Chloromethane	U			2.00	"						
Vinyl chloride	U			2.00	"						
Bromomethane	U			2.00	"						
Chloroethane	U			2.00	"						
Trichlorofluoromethane	U			2.00	"						
1,1-Dichloroethene	U			2.00	"						
Methylene chloride	U			2.00	"						
trans-1,2-Dichloroethene	U			2.00	"						
1,1-Dichloroethane	U			2.00	"						
2,2-Dichloropropane	U			2.00	"						
cis-1,2-Dichloroethene	U			2.00	"						
Bromochloromethane	U			2.00	"						
Chloroform	U			2.00	"						
1,1,1-Trichloroethane	U			2.00	"						
Carbon tetrachloride	U			2.00	"						
1,1-Dichloropropene	U			2.00	"						
Benzene	U			2.00	"						
1,2-Dichloroethane	U			2.00	"						
Trichloroethene	U			2.00	"						
1,2-Dichloropropane	U			2.00	"						
Dibromomethane	U			2.00	"						
Bromodichloromethane	U			2.00	"						
cis-1,3-Dichloropropene	U			2.00	"						
Toluene	U			2.00	"						
trans-1,3-Dichloropropene	U			2.00	"						
1,1,2-Trichloroethane	U			2.00	"						
Tetrachloroethene	U			2.00	"						
1,3-Dichloropropane	U			2.00	"						
Dibromochloromethane	U			2.00	"						
1,2-Dibromoethane (EDB)	U			2.00	"						
Chlorobenzene	U			2.00	"						

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified) - Quality Control

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L021 - Volatiles

Blank (B19L021-BLK3) **Prepared: Dec-16-19 Analyzed: Dec-18-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	U			2.00	ug/L						
Ethylbenzene	U			2.00	"						
m+p-Xylene	U			4.00	"						
o-Xylene	U			2.00	"						
Styrene	U			2.00	"						
Bromoform	U			2.00	"						
Isopropylbenzene	U			2.00	"						
Bromobenzene	U			2.00	"						
1,2,3-Trichloropropane	U			2.00	"						
n-Propylbenzene	U			2.00	"						
2-Chlorotoluene	U			2.00	"						
1,3,5-Trimethylbenzene	U			2.00	"						
4-Chlorotoluene	U			2.00	"						
1,1,2,2-Tetrachloroethane	U			2.00	"						
tert-Butylbenzene	U			2.00	"						
1,2,4-Trimethylbenzene	U			2.00	"						
sec-Butylbenzene	U			2.00	"						
1,3-Dichlorobenzene	U			2.00	"						
p-Isopropyltoluene	U			2.00	"						
1,4-Dichlorobenzene	U			2.00	"						
1,2-Dichlorobenzene	U			2.00	"						
n-Butylbenzene	U			2.00	"						
1,2-Dibromo-3-chloropropane	U			2.00	"						
1,2,4-Trichlorobenzene	U			2.00	"						
Hexachlorobutadiene	U			2.00	"						
Naphthalene	U			2.00	"						
1,2,3-Trichlorobenzene	U			2.00	"						
Surrogate: Dibromofluoromethane	*9.84*				*"*	*10.06*		*97.9%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*9.55*				*"*	*10.08*		*94.7%*	*84-122*		
Surrogate: Toluene-d8	*9.46*				*"*	*10.00*		*94.6%*	*88-108*		
Surrogate: 4-Bromofluorobenzene	*8.79*				*"*	*10.00*		*87.9%*	*84-108*		

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified) - Quality Control

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L021 - Volatiles

LCS (B19L021-BS1) **Prepared: Dec-16-19 Analyzed: Dec-17-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**25.4**			2.00	ug/L	25.02		102%	70-130		
Chloromethane	**23.6**			2.00	"	24.98		94.4%	70-130		
Vinyl chloride	**24.6**			2.00	"	24.88		98.9%	70-130		
Bromomethane	**19.0**			2.00	"	24.88		76.2%	70-130		
Chloroethane	**23.8**			2.00	"	25.02		95.0%	70-130		
Trichlorofluoromethane	**25.3**			2.00	"	24.86		102%	70-130		
1,1-Dichloroethene	**20.4**			2.00	"	25.00		81.4%	70-130		
Methylene chloride	**22.0**			2.00	"	25.00		87.8%	70-130		
trans-1,2-Dichloroethene	**19.9**			2.00	"	25.00		79.8%	70-130		
1,1-Dichloroethane	**22.8**			2.00	"	25.00		91.1%	70-130		
2,2-Dichloropropane	**13.2**	Q		2.00	"	25.00		52.7%	70-130		
cis-1,2-Dichloroethene	**22.8**			2.00	"	25.00		91.2%	70-130		
Bromochloromethane	**22.7**			2.00	"	25.00		90.7%	70-130		
Chloroform	**23.5**			2.00	"	25.00		93.9%	70-130		
1,1,1-Trichloroethane	**21.4**			2.00	"	25.00		85.7%	70-130		
Carbon tetrachloride	**19.6**			2.00	"	25.00		78.3%	70-130		
1,1-Dichloropropene	**20.0**			2.00	"	25.00		80.0%	70-130		
Benzene	**22.0**			2.00	"	25.00		87.8%	70-130		
1,2-Dichloroethane	**23.3**			2.00	"	25.00		93.4%	70-130		
Trichloroethene	**21.3**			2.00	"	25.00		85.3%	70-130		
1,2-Dichloropropane	**22.9**			2.00	"	25.00		91.4%	70-130		
Dibromomethane	**23.8**			2.00	"	25.00		95.2%	70-130		
Bromodichloromethane	**23.5**			2.00	"	25.00		94.0%	70-130		
cis-1,3-Dichloropropene	**21.7**			2.00	"	25.00		86.8%	70-130		
Toluene	**21.5**			2.00	"	25.00		86.0%	70-130		
trans-1,3-Dichloropropene	**20.1**			2.00	"	25.00		80.5%	70-130		
1,1,2-Trichloroethane	**23.3**			2.00	"	25.00		93.2%	70-130		
Tetrachloroethene	**20.2**			2.00	"	25.00		80.8%	70-130		
1,3-Dichloropropane	**24.4**			2.00	"	25.00		97.6%	70-130		
Dibromochloromethane	**21.8**			2.00	"	25.00		87.3%	70-130		
1,2-Dibromoethane (EDB)	**22.8**			2.00	"	25.00		91.2%	70-130		
Chlorobenzene	**21.9**			2.00	"	25.00		87.4%	70-130		

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified) - Quality Control

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L021 - Volatiles

LCS (B19L021-BS1) **Prepared: Dec-16-19 Analyzed: Dec-17-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	**22.3**			2.00	ug/L	25.00		89.1%	70-130		
Ethylbenzene	**21.2**			2.00	"	25.00		84.6%	70-130		
m+p-Xylene	**41.3**			4.00	"	50.00		82.7%	70-130		
o-Xylene	**20.9**			2.00	"	25.00		83.7%	70-130		
Styrene	**21.5**			2.00	"	25.00		86.0%	70-130		
Bromoform	**23.0**			2.00	"	25.00		92.1%	70-130		
Isopropylbenzene	**21.2**			2.00	"	25.00		84.9%	70-130		
Bromobenzene	**23.1**			2.00	"	25.00		92.2%	70-130		
1,2,3-Trichloropropane	**25.3**			2.00	"	25.00		101%	70-130		
n-Propylbenzene	**20.7**			2.00	"	25.00		82.6%	70-130		
2-Chlorotoluene	**21.8**			2.00	"	25.00		87.2%	70-130		
1,3,5-Trimethylbenzene	**20.4**			2.00	"	25.00		81.6%	70-130		
4-Chlorotoluene	**21.6**			2.00	"	25.00		86.3%	70-130		
1,1,2,2-Tetrachloroethane	**25.9**			2.00	"	25.00		103%	70-130		
tert-Butylbenzene	**21.9**			2.00	"	25.00		87.5%	70-130		
1,2,4-Trimethylbenzene	**21.5**			2.00	"	25.00		86.2%	70-130		
sec-Butylbenzene	**21.6**			2.00	"	25.00		86.6%	70-130		
1,3-Dichlorobenzene	**23.8**			2.00	"	25.00		95.2%	70-130		
p-Isopropyltoluene	**20.6**			2.00	"	25.00		82.4%	70-130		
1,4-Dichlorobenzene	**23.4**			2.00	"	25.00		93.6%	70-130		
1,2-Dichlorobenzene	**24.0**			2.00	"	25.00		95.9%	70-130		
n-Butylbenzene	**20.6**			2.00	"	25.00		82.6%	70-130		
1,2-Dibromo-3-chloropropane	**25.8**			2.00	"	25.00		103%	70-130		
1,2,4-Trichlorobenzene	**22.4**			2.00	"	25.00		89.7%	70-130		
Hexachlorobutadiene	**19.7**			2.00	"	25.00		78.6%	70-130		
Naphthalene	**24.1**			2.00	"	25.00		96.5%	70-130		
1,2,3-Trichlorobenzene	**21.5**			2.00	"	25.00		86.1%	70-130		
Surrogate: Dibromofluoromethane	*10.3*				*"*	*10.06*		*103%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*10.3*				*"*	*10.08*		*102%*	*84-122*		
Surrogate: Toluene-d8	*9.84*				*"*	*10.00*		*98.4%*	*88-108*		
Surrogate: 4-Bromofluorobenzene	*9.75*				*"*	*10.00*		*97.5%*	*84-108*		

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified) - Quality Control

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L021 - Volatiles

LCS (B19L021-BS2) **Prepared: Dec-16-19 Analyzed: Dec-18-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**21.8**			2.00	ug/L	25.02		87.2%	70-130		
Chloromethane	**25.0**			2.00	"	24.98		100%	70-130		
Vinyl chloride	**25.2**			2.00	"	24.88		101%	70-130		
Bromomethane	**17.5**			2.00	"	24.88		70.5%	70-130		
Chloroethane	**23.8**			2.00	"	25.02		94.9%	70-130		
Trichlorofluoromethane	**25.9**			2.00	"	24.86		104%	70-130		
1,1-Dichloroethene	**25.1**			2.00	"	25.00		101%	70-130		
Methylene chloride	**23.1**			2.00	"	25.00		92.4%	70-130		
trans-1,2-Dichloroethene	**25.3**			2.00	"	25.00		101%	70-130		
1,1-Dichloroethane	**25.8**			2.00	"	25.00		103%	70-130		
2,2-Dichloropropane	**26.6**			2.00	"	25.00		107%	70-130		
cis-1,2-Dichloroethene	**25.2**			2.00	"	25.00		101%	70-130		
Bromochloromethane	**26.0**			2.00	"	25.00		104%	70-130		
Chloroform	**25.7**			2.00	"	25.00		103%	70-130		
1,1,1-Trichloroethane	**24.6**			2.00	"	25.00		98.4%	70-130		
Carbon tetrachloride	**23.3**			2.00	"	25.00		93.3%	70-130		
1,1-Dichloropropene	**24.1**			2.00	"	25.00		96.3%	70-130		
Benzene	**24.6**			2.00	"	25.00		98.5%	70-130		
1,2-Dichloroethane	**23.8**			2.00	"	25.00		95.3%	70-130		
Trichloroethene	**24.7**			2.00	"	25.00		98.8%	70-130		
1,2-Dichloropropane	**24.1**			2.00	"	25.00		96.3%	70-130		
Dibromomethane	**24.4**			2.00	"	25.00		97.8%	70-130		
Bromodichloromethane	**25.5**			2.00	"	25.00		102%	70-130		
cis-1,3-Dichloropropene	**25.0**			2.00	"	25.00		100%	70-130		
Toluene	**23.8**			2.00	"	25.00		95.0%	70-130		
trans-1,3-Dichloropropene	**23.0**			2.00	"	25.00		91.8%	70-130		
1,1,2-Trichloroethane	**23.8**			2.00	"	25.00		95.2%	70-130		
Tetrachloroethene	**24.8**			2.00	"	25.00		99.1%	70-130		
1,3-Dichloropropane	**24.2**			2.00	"	25.00		96.6%	70-130		
Dibromochloromethane	**23.1**			2.00	"	25.00		92.5%	70-130		
1,2-Dibromoethane (EDB)	**22.4**			2.00	"	25.00		89.6%	70-130		
Chlorobenzene	**22.7**			2.00	"	25.00		90.7%	70-130		

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified) - Quality Control

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L021 - Volatiles

LCS (B19L021-BS2) **Prepared: Dec-16-19 Analyzed: Dec-18-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	**22.2**			2.00	ug/L	25.00		89.0%	70-130		
Ethylbenzene	**22.6**			2.00	"	25.00		90.3%	70-130		
m+p-Xylene	**46.9**			4.00	"	50.00		93.7%	70-130		
o-Xylene	**22.6**			2.00	"	25.00		90.6%	70-130		
Styrene	**23.0**			2.00	"	25.00		91.9%	70-130		
Bromoform	**21.7**			2.00	"	25.00		86.8%	70-130		
Isopropylbenzene	**23.0**			2.00	"	25.00		91.8%	70-130		
Bromobenzene	**23.7**			2.00	"	25.00		94.7%	70-130		
1,2,3-Trichloropropane	**22.0**			2.00	"	25.00		88.1%	70-130		
n-Propylbenzene	**24.4**			2.00	"	25.00		97.5%	70-130		
2-Chlorotoluene	**23.7**			2.00	"	25.00		94.7%	70-130		
1,3,5-Trimethylbenzene	**23.2**			2.00	"	25.00		92.7%	70-130		
4-Chlorotoluene	**23.6**			2.00	"	25.00		94.4%	70-130		
1,1,2,2-Tetrachloroethane	**24.6**			2.00	"	25.00		98.4%	70-130		
tert-Butylbenzene	**25.5**			2.00	"	25.00		102%	70-130		
1,2,4-Trimethylbenzene	**24.6**			2.00	"	25.00		98.4%	70-130		
sec-Butylbenzene	**25.9**			2.00	"	25.00		104%	70-130		
1,3-Dichlorobenzene	**25.3**			2.00	"	25.00		101%	70-130		
p-Isopropyltoluene	**24.7**			2.00	"	25.00		98.8%	70-130		
1,4-Dichlorobenzene	**24.6**			2.00	"	25.00		98.3%	70-130		
1,2-Dichlorobenzene	**24.7**			2.00	"	25.00		98.7%	70-130		
n-Butylbenzene	**26.8**			2.00	"	25.00		107%	70-130		
1,2-Dibromo-3-chloropropane	**21.0**			2.00	"	25.00		84.1%	70-130		
1,2,4-Trichlorobenzene	**25.6**			2.00	"	25.00		102%	70-130		
Hexachlorobutadiene	**24.9**			2.00	"	25.00		99.6%	70-130		
Naphthalene	**22.3**			2.00	"	25.00		89.1%	70-130		
1,2,3-Trichlorobenzene	**23.4**			2.00	"	25.00		93.4%	70-130		
Surrogate: Dibromofluoromethane	*10.9*				*"*	*10.06*		*108%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*10.3*				*"*	*10.08*		*102%*	*84-122*		
Surrogate: Toluene-d8	*10.1*				*"*	*10.00*		*101%*	*88-108*		
Surrogate: 4-Bromofluorobenzene	*9.60*				*"*	*10.00*		*96.0%*	*84-108*		

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified) - Quality Control

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L021 - Volatiles

LCS Dup (B19L021-BSD1) **Prepared: Dec-16-19 Analyzed: Dec-17-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**23.8**			2.00	ug/L	25.02		95.2%	70-130	6.48	60
Chloromethane	**22.6**			2.00	"	24.98		90.5%	70-130	4.23	60
Vinyl chloride	**23.6**			2.00	"	24.88		94.9%	70-130	4.12	60
Bromomethane	**19.5**			2.00	"	24.88		78.3%	70-130	2.74	60
Chloroethane	**23.7**			2.00	"	25.02		94.7%	70-130	0.270	60
Trichlorofluoromethane	**24.6**			2.00	"	24.86		98.8%	70-130	2.89	60
1,1-Dichloroethene	**21.6**			2.00	"	25.00		86.2%	70-130	5.68	60
Methylene chloride	**21.9**			2.00	"	25.00		87.6%	70-130	0.265	60
trans-1,2-Dichloroethene	**20.9**			2.00	"	25.00		83.5%	70-130	4.59	60
1,1-Dichloroethane	**24.7**			2.00	"	25.00		98.8%	70-130	8.11	60
2,2-Dichloropropane	**11.3**	Q		2.00	"	25.00		45.1%	70-130	15.6	60
cis-1,2-Dichloroethene	**23.2**			2.00	"	25.00		92.6%	70-130	1.58	60
Bromochloromethane	**22.9**			2.00	"	25.00		91.6%	70-130	0.904	60
Chloroform	**24.7**			2.00	"	25.00		98.7%	70-130	4.95	60
1,1,1-Trichloroethane	**23.2**			2.00	"	25.00		92.6%	70-130	7.84	60
Carbon tetrachloride	**21.4**			2.00	"	25.00		85.5%	70-130	8.76	60
1,1-Dichloropropene	**20.6**			2.00	"	25.00		82.3%	70-130	2.77	60
Benzene	**23.0**			2.00	"	25.00		92.0%	70-130	4.64	60
1,2-Dichloroethane	**24.3**			2.00	"	25.00		97.1%	70-130	3.90	60
Trichloroethene	**24.6**			2.00	"	25.00		98.4%	70-130	14.3	60
1,2-Dichloropropane	**23.5**			2.00	"	25.00		94.1%	70-130	2.90	60
Dibromomethane	**24.4**			2.00	"	25.00		97.7%	70-130	2.59	60
Bromodichloromethane	**23.9**			2.00	"	25.00		95.7%	70-130	1.79	60
cis-1,3-Dichloropropene	**21.3**			2.00	"	25.00		85.1%	70-130	1.98	60
Toluene	**21.9**			2.00	"	25.00		87.5%	70-130	1.73	60
trans-1,3-Dichloropropene	**20.2**			2.00	"	25.00		80.7%	70-130	0.337	60
1,1,2-Trichloroethane	**25.0**			2.00	"	25.00		100%	70-130	7.26	60
Tetrachloroethene	**21.4**			2.00	"	25.00		85.5%	70-130	5.70	60
1,3-Dichloropropane	**24.1**			2.00	"	25.00		96.3%	70-130	1.34	60
Dibromochloromethane	**22.5**			2.00	"	25.00		89.9%	70-130	2.90	60
1,2-Dibromoethane (EDB)	**23.1**			2.00	"	25.00		92.5%	70-130	1.45	60
Chlorobenzene	**22.2**			2.00	"	25.00		88.8%	70-130	1.58	60

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified) - Quality Control

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L021 - Volatiles

LCS Dup (B19L021-BSD1) **Prepared: Dec-16-19 Analyzed: Dec-17-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	**22.4**			2.00	ug/L	25.00		89.5%	70-130	0.484	60
Ethylbenzene	**21.0**			2.00	"	25.00		84.1%	70-130	0.626	60
m+p-Xylene	**42.2**			4.00	"	50.00		84.3%	70-130	1.99	60
o-Xylene	**21.6**			2.00	"	25.00		86.4%	70-130	3.13	60
Styrene	**21.8**			2.00	"	25.00		87.0%	70-130	1.22	60
Bromoform	**22.9**			2.00	"	25.00		91.5%	70-130	0.645	60
Isopropylbenzene	**21.9**			2.00	"	25.00		87.4%	70-130	2.98	60
Bromobenzene	**23.2**			2.00	"	25.00		92.6%	70-130	0.433	60
1,2,3-Trichloropropane	**24.6**			2.00	"	25.00		98.5%	70-130	2.91	60
n-Propylbenzene	**21.2**			2.00	"	25.00		84.9%	70-130	2.70	60
2-Chlorotoluene	**22.0**			2.00	"	25.00		88.1%	70-130	1.02	60
1,3,5-Trimethylbenzene	**21.0**			2.00	"	25.00		83.9%	70-130	2.78	60
4-Chlorotoluene	**21.6**			2.00	"	25.00		86.3%	70-130	0.00	60
1,1,2,2-Tetrachloroethane	**23.9**			2.00	"	25.00		95.6%	70-130	7.96	60
tert-Butylbenzene	**22.8**			2.00	"	25.00		91.2%	70-130	4.15	60
1,2,4-Trimethylbenzene	**22.0**			2.00	"	25.00		88.0%	70-130	2.13	60
sec-Butylbenzene	**22.2**			2.00	"	25.00		88.8%	70-130	2.53	60
1,3-Dichlorobenzene	**23.0**			2.00	"	25.00		92.0%	70-130	3.40	60
p-Isopropyltoluene	**21.0**			2.00	"	25.00		83.8%	70-130	1.72	60
1,4-Dichlorobenzene	**23.1**			2.00	"	25.00		92.4%	70-130	1.28	60
1,2-Dichlorobenzene	**23.5**			2.00	"	25.00		93.9%	70-130	2.06	60
n-Butylbenzene	**20.8**			2.00	"	25.00		83.2%	70-130	0.724	60
1,2-Dibromo-3-chloropropane	**23.9**			2.00	"	25.00		95.7%	70-130	7.37	60
1,2,4-Trichlorobenzene	**22.0**			2.00	"	25.00		87.9%	70-130	2.04	60
Hexachlorobutadiene	**21.3**			2.00	"	25.00		85.0%	70-130	7.82	60
Naphthalene	**24.7**			2.00	"	25.00		98.7%	70-130	2.22	60
1,2,3-Trichlorobenzene	**20.9**			2.00	"	25.00		83.7%	70-130	2.83	60
Surrogate: Dibromofluoromethane	*11.0*				*"*	*10.06*		*109%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*10.2*				*"*	*10.08*		*101%*	*84-122*		
Surrogate: Toluene-d8	*10.2*				*"*	*10.00*		*102%*	*88-108*		
Surrogate: 4-Bromofluorobenzene	*10.4*				*"*	*10.00*		*104%*	*84-108*		

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified) - Quality Control

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L021 - Volatiles

LCS Dup (B19L021-BSD2) **Prepared: Dec-16-19 Analyzed: Dec-18-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**22.5**			2.00	ug/L	25.02		89.7%	70-130	2.89	60
Chloromethane	**25.8**			2.00	"	24.98		103%	70-130	3.12	60
Vinyl chloride	**26.1**			2.00	"	24.88		105%	70-130	3.42	60
Bromomethane	**19.1**			2.00	"	24.88		76.9%	70-130	8.60	60
Chloroethane	**24.9**			2.00	"	25.02		99.5%	70-130	4.77	60
Trichlorofluoromethane	**25.7**			2.00	"	24.86		104%	70-130	0.550	60
1,1-Dichloroethene	**25.2**			2.00	"	25.00		101%	70-130	0.310	60
Methylene chloride	**25.1**			2.00	"	25.00		100%	70-130	8.39	60
trans-1,2-Dichloroethene	**25.5**			2.00	"	25.00		102%	70-130	1.12	60
1,1-Dichloroethane	**27.5**			2.00	"	25.00		110%	70-130	6.44	60
2,2-Dichloropropane	**23.1**			2.00	"	25.00		92.5%	70-130	14.2	60
cis-1,2-Dichloroethene	**26.2**			2.00	"	25.00		105%	70-130	3.93	60
Bromochloromethane	**25.8**			2.00	"	25.00		103%	70-130	0.841	60
Chloroform	**26.8**			2.00	"	25.00		107%	70-130	4.08	60
1,1,1-Trichloroethane	**26.0**			2.00	"	25.00		104%	70-130	5.53	60
Carbon tetrachloride	**23.7**			2.00	"	25.00		94.8%	70-130	1.52	60
1,1-Dichloropropene	**24.9**			2.00	"	25.00		99.6%	70-130	3.35	60
Benzene	**25.9**			2.00	"	25.00		104%	70-130	4.99	60
1,2-Dichloroethane	**24.9**			2.00	"	25.00		99.6%	70-130	4.47	60
Trichloroethene	**26.0**			2.00	"	25.00		104%	70-130	5.02	60
1,2-Dichloropropane	**25.8**			2.00	"	25.00		103%	70-130	6.83	60
Dibromomethane	**25.8**			2.00	"	25.00		103%	70-130	5.31	60
Bromodichloromethane	**26.5**			2.00	"	25.00		106%	70-130	3.73	60
cis-1,3-Dichloropropene	**25.1**			2.00	"	25.00		100%	70-130	0.120	60
Toluene	**24.9**			2.00	"	25.00		99.7%	70-130	4.77	60
trans-1,3-Dichloropropene	**22.5**			2.00	"	25.00		90.1%	70-130	1.93	60
1,1,2-Trichloroethane	**24.0**			2.00	"	25.00		95.9%	70-130	0.754	60
Tetrachloroethene	**23.6**			2.00	"	25.00		94.4%	70-130	4.93	60
1,3-Dichloropropane	**25.5**			2.00	"	25.00		102%	70-130	5.37	60
Dibromochloromethane	**23.4**			2.00	"	25.00		93.6%	70-130	1.20	60
1,2-Dibromoethane (EDB)	**23.3**			2.00	"	25.00		93.2%	70-130	3.99	60
Chlorobenzene	**23.8**			2.00	"	25.00		95.3%	70-130	4.94	60

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Volatiles by GC/MS, EPA 8260C (modified) - Quality Control

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L021 - Volatiles

LCS Dup (B19L021-BSD2) **Prepared: Dec-16-19 Analyzed: Dec-18-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	**23.0**			2.00	ug/L	25.00		91.9%	70-130	3.25	60
Ethylbenzene	**22.9**			2.00	"	25.00		91.4%	70-130	1.23	60
m+p-Xylene	**47.4**			4.00	"	50.00		94.9%	70-130	1.21	60
o-Xylene	**23.1**			2.00	"	25.00		92.2%	70-130	1.84	60
Styrene	**24.0**			2.00	"	25.00		95.9%	70-130	4.26	60
Bromoform	**22.9**			2.00	"	25.00		91.6%	70-130	5.35	60
Isopropylbenzene	**23.7**			2.00	"	25.00		94.8%	70-130	3.16	60
Bromobenzene	**24.5**			2.00	"	25.00		98.1%	70-130	3.52	60
1,2,3-Trichloropropane	**25.4**			2.00	"	25.00		102%	70-130	14.2	60
n-Propylbenzene	**24.4**			2.00	"	25.00		97.4%	70-130	0.0903	60
2-Chlorotoluene	**24.6**			2.00	"	25.00		98.5%	70-130	3.98	60
1,3,5-Trimethylbenzene	**23.0**			2.00	"	25.00		92.0%	70-130	0.762	60
4-Chlorotoluene	**24.2**			2.00	"	25.00		96.6%	70-130	2.31	60
1,1,2,2-Tetrachloroethane	**26.8**			2.00	"	25.00		107%	70-130	8.58	60
tert-Butylbenzene	**26.4**			2.00	"	25.00		106%	70-130	3.74	60
1,2,4-Trimethylbenzene	**25.7**			2.00	"	25.00		103%	70-130	4.39	60
sec-Butylbenzene	**26.2**			2.00	"	25.00		105%	70-130	1.13	60
1,3-Dichlorobenzene	**26.8**			2.00	"	25.00		107%	70-130	5.80	60
p-Isopropyltoluene	**25.0**			2.00	"	25.00		100%	70-130	1.23	60
1,4-Dichlorobenzene	**26.7**			2.00	"	25.00		107%	70-130	8.23	60
1,2-Dichlorobenzene	**26.2**			2.00	"	25.00		105%	70-130	6.00	60
n-Butylbenzene	**25.3**			2.00	"	25.00		101%	70-130	5.46	60
1,2-Dibromo-3-chloropropane	**25.3**			2.00	"	25.00		101%	70-130	18.4	60
1,2,4-Trichlorobenzene	**25.5**			2.00	"	25.00		102%	70-130	0.619	60
Hexachlorobutadiene	**24.2**			2.00	"	25.00		96.6%	70-130	3.08	60
Naphthalene	**25.5**			2.00	"	25.00		102%	70-130	13.4	60
1,2,3-Trichlorobenzene	**25.1**			2.00	"	25.00		100%	70-130	7.01	60
Surrogate: Dibromofluoromethane	*10.8*				*"*	*10.06*		*107%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*9.91*				*"*	*10.08*		*98.3%*	*84-122*		
Surrogate: Toluene-d8	*10.1*				*"*	*10.00*		*101%*	*88-108*		
Surrogate: 4-Bromofluorobenzene	*9.74*				*"*	*10.00*		*97.4%*	*84-108*		

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Karen Kirchner	Jan-17-20 11:31

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
(LCS)	Blank spike recovery criteria not met for this analyte
(ICV)	Initial calibration verification criteria not met for this analyte
U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

Work Order: 1912009, 1912011, 1912013

K O'Malley GC/MS#11

difference from CCV (h:mm)	difference from BFB injection (h:mm)	Date Acquired	Data File Name	Sample Name	Misc Info	Last Calibration Update	(# 1) Ret Time	FLUOROBENZENE ≤ 10 sec difference from midpoint ICAL std or CCV RT	(# 1) Target Response	FLUOROBENZENE 50 - 200% % of midpoint ICAL std or CCV response	(# 36) Ret Time	CHLOROBENZENE-D5 ≤ 10 sec difference from midpoint ICAL std or CCV RT	(# 36) Target Response	CHLOROBENZENE-D5 50 - 200% % of midpoint ICAL std or CCV response	(# 59) Ret Time	1,4-DICHLOROBENZENE-D4 ≤ 10 sec difference from midpoint ICAL std or CCV RT	(# 59) Target Response	1,4-DICHLOROBENZENE-D4 50 - 200% % of midpoint ICAL std or CCV response
NA	**0:00**	12/12/2019 10:28	GCMS11_191212_01.D	BFB Direct Inject	LIMS 18G1106	Fri Dec 13 10:29:00 2019	6.25	0.01	20	NA	0	NA	0	NA	0	NA	0	NA
NA	0:12	12/12/2019 10:40	GCMS11_191212_02.D	IB1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	61053	85%	9.44	0.00	23491	85%	11.76	0.01	24814	84%
NA	0:40	12/12/2019 11:08	GCMS11_191212_03.D	IB2	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	67518	94%	9.44	0.00	25564	93%	11.77	0.00	25953	88%
NA	2:10	12/12/2019 12:38	GCMS11_191212_04.D	Cal Blank	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	68495	96%	9.44	0.00	26520	96%	11.77	0.00	28322	96%
NA	2:38	12/12/2019 13:06	GCMS11_191212_05.D	ICAL 1	LIMS 19L1101, 19L1201, 19L1202, 19L1203	Fri Dec 13 10:29:00 2019	6.26	0.00	67995	95%	9.44	0.00	25515	93%	11.76	0.01	25981	88%
NA	3:07	12/12/2019 13:35	GCMS11_191212_06.D	ICAL 2	LIMS 19L1101, 19L1201, 19L1202, 19L1203	Fri Dec 13 10:29:00 2019	6.25	0.01	65812	92%	9.44	0.00	25612	93%	11.76	0.01	27278	92%
NA	3:35	12/12/2019 14:03	GCMS11_191212_07.D	ICAL 3	LIMS 19L1101, 19L1201, 19L1202, 19L1203	Fri Dec 13 10:29:00 2019	6.25	0.01	66983	94%	9.44	0.00	22925	83%	11.77	0.00	25718	87%
NA	4:03	**12/12/2019 14:31**	**GCMS11_191212_08.D**	**ICAL 4**	**LIMS 19L1101, 19L1201, 19L1202, 19L1203**	**Fri Dec 13 10:29:00 2019**	**6.26**	**0.00**	**71619**	**100%**	**9.44**	**0.00**	**27488**	**100%**	**11.77**	**0.00**	**29568**	**100%**
NA	4:32	12/12/2019 15:00	GCMS11_191212_09.D	ICAL 5	LIMS 19L1101, 19L1201, 19L1202, 19L1203	Fri Dec 13 10:29:00 2019	6.26	0.00	71453	100%	9.44	0.00	27084	99%	11.77	0.00	28353	96%
NA	5:00	12/12/2019 15:28	GCMS11_191212_10.D	ICAL 6	LIMS 19L1101, 19L1201, 19L1202, 19L1203	Fri Dec 13 10:29:00 2019	6.25	0.01	72375	101%	9.44	0.00	27484	100%	11.77	0.00	33377	113%
NA	5:28	12/12/2019 15:56	GCMS11_191212_11.D	IB3	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	69700	97%	9.44	0.00	26203	95%	11.76	0.01	26589	90%
NA	5:57	12/12/2019 16:25	GCMS11_191212_12.D	ICV	LIMS 19L1101, 19L1204, 19L1205	Fri Dec 13 10:29:00 2019	6.26	0.00	69771	97%	9.44	0.00	27406	100%	11.77	0.00	28907	98%
NA	**0:00**	12/12/2019 18:26	GCMS11_191212_13.D	IB4	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	67792	95%	9.44	0.00	25932	94%	11.77	0.00	26357	89%
0:00	0:28	**12/12/2019 18:54**	**GCMS11_191212_14.D**	**B19L012-BS1**	**LIMS 19L1101, 19L1201, 19L1202, 19L1203**	**Fri Dec 13 10:29:00 2019**	**6.25**	**0.01**	**66395**	**98%**	**9.44**	**0.00**	**24323**	**94%**	**11.77**	**0.00**	**27141**	**103%**
0:29	0:57	12/12/2019 19:23	GCMS11_191212_15.D	B19L012-BLK1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	65717	92%	9.44	0.00	25679	93%	11.76	0.01	26035	88%
0:57	1:25	12/12/2019 19:51	GCMS11_191212_16.D	B19L012-BLK2	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	62649	87%	9.44	0.00	24645	90%	11.77	0.00	25206	85%
1:25	1:53	12/12/2019 20:19	GCMS11_191212_17.D	1912009-01	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	66268	93%	9.44	0.00	24724	90%	11.76	0.01	25140	85%
1:56	2:24	12/12/2019 20:50	GCMS11_191212_18.D	1912009-02	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.26	0.01	66627	93%	9.44	0.00	24879	91%	11.77	0.00	25887	88%
2:27	2:55	12/12/2019 21:21	GCMS11_191212_19.D	1912009-03	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.25	0.00	67881	95%	9.44	0.00	25140	91%	11.76	0.01	26290	89%
2:58	3:26	12/12/2019 21:52	GCMS11_191212_20.D	1912009-04	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.25	0.00	63666	89%	9.44	0.00	24272	88%	11.77	0.00	24875	84%
3:29	3:57	12/12/2019 22:23	GCMS11_191212_21.D	1912009-05	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.25	0.00	61792	86%	9.44	0.00	23453	85%	11.77	0.00	24596	83%
3:59	4:27	12/12/2019 22:53	GCMS11_191212_22.D	1912009-06	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.25	0.00	66860	93%	9.44	0.00	25836	94%	11.77	0.00	26497	90%
4:30	4:58	12/12/2019 23:24	GCMS11_191212_23.D	1912009-07	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.25	0.00	64370	90%	9.44	0.00	24224	88%	11.76	0.01	24676	83%
5:01	5:29	12/12/2019 23:55	GCMS11_191212_24.D	1912009-08	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.25	0.00	64316	90%	9.44	0.00	23901	87%	11.77	0.00	26402	89%
5:32	6:00	12/13/2019 0:26	GCMS11_191212_25.D	1912009-09	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.26	0.01	63968	89%	9.44	0.00	24494	89%	11.76	0.01	25448	86%
6:03	6:31	12/13/2019 0:57	GCMS11_191212_26.D	1912009-10	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.25	0.00	61195	85%	9.44	0.00	24126	88%	11.76	0.01	24753	84%
6:34	7:02	12/13/2019 1:28	GCMS11_191212_27.D	1912009-11	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.25	0.00	65003	91%	9.44	0.00	24569	89%	11.77	0.00	24664	83%
7:02	7:30	12/13/2019 1:56	GCMS11_191212_28.D	1912009-12	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	64493	90%	9.44	0.00	23996	87%	11.77	0.00	24177	82%
0:00	7:58	**12/13/2019 2:24**	**GCMS11_191212_29.D**	**B19L012-BSD1**	**LIMS 19L1101, 19L1201, 19L1202, 19L1203**	**Fri Dec 13 10:29:00 2019**	**6.25**	**0.01**	**66729**	**93%**	**9.44**	**0.00**	**23307**	**85%**	**11.76**	**0.01**	**28079**	**95%**
0:29	8:27	12/13/2019 2:53	GCMS11_191212_30.D	B19L012-MRL1	LIMS 19L1101, 19L1201, 19L1202, 19L1203	Fri Dec 13 10:29:00 2019	6.25	0.00	62957	94%	9.44	0.00	24106	103%	11.77	0.01	25264	90%
0:57	**0:00**	12/13/2019 3:21	GCMS11_191212_31.D	IB5	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	61084	92%	9.44	0.00	25308	109%	11.77	0.01	24156	86%
1:25	0:28	12/13/2019 3:49	GCMS11_191212_32.D	B19L015-BLK1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	63770	96%	9.44	0.00	23930	103%	11.76	0.00	22896	82%
1:54	0:57	12/13/2019 4:18	GCMS11_191212_33.D	B19L015-BLK2	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	61350	92%	9.44	0.00	23183	99%	11.77	0.01	22231	79%
2:24	1:27	12/13/2019 4:48	GCMS11_191212_34.D	19L12011-01	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.26	0.01	62532	94%	9.44	0.00	24410	105%	11.76	0.00	24174	86%
2:55	1:58	12/13/2019 5:19	GCMS11_191212_35.D	19L12011-02	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.25	0.00	57555	86%	9.44	0.00	22392	96%	11.76	0.00	23312	83%
3:26	2:29	12/13/2019 5:50	GCMS11_191212_36.D	19L12011-03	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.25	0.00	63400	95%	9.44	0.00	24399	105%	11.77	0.01	25364	90%
3:57	3:00	12/13/2019 6:21	GCMS11_191212_37.D	19L12011-04	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.26	0.01	60729	91%	9.44	0.00	23243	100%	11.77	0.01	24711	88%
4:28	3:31	12/13/2019 6:52	GCMS11_191212_38.D	19L12011-05	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.26	0.01	61558	92%	9.44	0.00	23270	100%	11.77	0.01	23857	85%
4:59	4:02	12/13/2019 7:23	GCMS11_191212_39.D	19L12011-06	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.25	0.00	63643	95%	9.44	0.00	24559	105%	11.77	0.01	24522	87%
5:30	4:33	12/13/2019 7:54	GCMS11_191212_40.D	19L12011-07	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.25	0.00	63527	95%	9.44	0.00	23066	99%	11.77	0.01	23285	83%
6:01	5:04	12/13/2019 8:25	GCMS11_191212_41.D	19L12011-08	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.26	0.01	63027	94%	9.44	0.00	24398	105%	11.76	0.00	23532	84%
6:32	5:35	12/13/2019 8:56	GCMS11_191212_42.D	19L12011-09	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.25	0.00	63090	95%	9.44	0.00	23753	102%	11.77	0.01	23867	85%
7:02	6:05	12/13/2019 9:26	GCMS11_191212_43.D	19L12011-10	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.25	0.00	66028	99%	9.44	0.00	24691	106%	11.77	0.01	25976	93%
7:31	6:34	12/13/2019 9:55	GCMS11_191212_44.D	IB6	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	66532	100%	9.44	0.00	24974	107%	11.76	0.00	24516	87%
0:00	7:02	**12/13/2019 10:23**	**GCMS11_191212_45.D**	**B19L015-BS1**	**LIMS 19L1101, 19L1201, 19L1202, 19L1203**	**Fri Dec 13 10:29:00 2019**	**6.25**	**0.01**	**65398**	**91%**	**9.44**	**0.00**	**24624**	**90%**	**11.77**	**0.00**	**28457**	**96%**
0:31	7:33	12/13/2019 10:54	GCMS11_191212_46.D	19L12011-11	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.26	0.01	65456	100%	9.44	0.00	25435	103%	11.76	0.01	26056	92%
1:02	8:04	12/13/2019 11:25	GCMS11_191212_47.D	19L12011-12	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.25	0.00	65466	100%	9.44	0.00	25836	105%	11.76	0.01	26433	93%
1:38	8:40	12/13/2019 12:01	GCMS11_191212_48.D	19L12011-13	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.26	0.01	66594	102%	9.44	0.00	24331	99%	11.77	0.00	24990	88%
2:06	9:08	12/13/2019 12:29	GCMS11_191212_49.D	IB7	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	68219	104%	9.44	0.00	25014	102%	11.77	0.00	24930	88%
2:34	9:36	12/13/2019 12:57	GCMS11_191212_50.D	IB8	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	66631	102%	9.44	0.00	25400	103%	11.77	0.00	22763	80%
3:05	10:07	12/13/2019 13:28	GCMS11_191212_51.D	19L12011-14	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.25	0.00	66557	102%	9.44	0.00	25811	105%	11.77	0.00	26706	94%
3:36	10:38	12/13/2019 13:59	GCMS11_191212_52.D	19L12011-15	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.25	0.00	63450	97%	9.44	0.00	24216	98%	11.77	0.00	26247	92%
4:07	11:09	12/13/2019 14:30	GCMS11_191212_53.D	19L12011-16	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.25	0.00	67818	104%	9.44	0.00	25974	105%	11.76	0.01	25282	89%
4:38	11:40	12/13/2019 15:01	GCMS11_191212_54.D	19L12011-17	LIMS 19L1101, 50x screening dilution	Fri Dec 13 10:29:00 2019	6.26	0.01	62663	96%	9.44	0.00	24409	99%	11.77	0.00	24316	85%
5:07	**0:00**	12/13/2019 15:30	GCMS11_191212_55.D	IB9	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	61173	94%	9.44	0.00	22532	92%	11.77	0.00	22613	79%
5:35	0:28	12/13/2019 15:58	GCMS11_191212_56.D	IB10	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	64951	99%	9.44	0.00	23085	94%	11.76	0.01	22653	80%
6:03	0:56	12/13/2019 16:26	GCMS11_191212_57.D	19L12011-18	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	58578	90%	9.44	0.00	23216	94%	11.77	0.00	22183	78%
6:32	1:25	12/13/2019 16:55	GCMS11_191212_58.D	19L12011-19	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	61077	93%	9.44	0.00	22673	92%	11.77	0.00	22806	80%
7:00	1:53	12/13/2019 17:23	GCMS11_191212_59.D	19L12011-20	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	59685	91%	9.44	0.00	22941	93%	11.77	0.00	22705	80%
7:30	2:23	12/13/2019 17:53	GCMS11_191212_60.D	IB10.5	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	61810	95%	9.44	0.00	24389	99%	11.77	0.00	23588	83%
7:58	2:51	12/13/2019 18:21	GCMS11_191212_61.D	B19L015-MRL1	LIMS 19L1101, 19L1201, 19L1202, 19L1203	Fri Dec 13 10:29:00 2019	6.25	0.01	55970	86%	9.44	0.00	21826	89%	11.76	0.01	22123	78%
8:29	3:22	12/13/2019 18:52	GCMS11_191212_62.D	B19L015-MS1	LIMS 19L1101, 19L1201, 19L1202, 19L1203	Fri Dec 13 10:29:00 2019	6.26	0.01	66332	101%	9.44	0.00	24570	100%	11.77	0.00	25483	90%
9:00	3:53	12/13/2019 19:23	GCMS11_191212_63.D	B19L015-MSD1	LIMS 19L1101, 19L1201, 19L1202, 19L1203	Fri Dec 13 10:29:00 2019	6.26	0.01	68965	105%	9.44	0.00	25948	105%	11.77	0.00	25899	91%
9:28	4:21	12/13/2019 19:51	GCMS11_191212_64.D	IB11	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	62210	95%	9.44	0.00	23539	96%	11.77	0.00	24047	85%
9:57	4:50	12/13/2019 20:20	GCMS11_191212_65.D	IB12	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	60278	92%	9.44	0.00	22137	90%	11.77	0.00	21819	77%
0:00	5:18	**12/13/2019 20:48**	**GCMS11_191212_66.D**	**B19L015-BSD1**	**LIMS 19L1101, 19L1201, 19L1202, 19L1203**	**Fri Dec 13 10:29:00 2019**	**6.26**	**0.00**	**61099**	**85%**	**9.44**	**0.00**	**23964**	**87%**	**11.76**	**0.01**	**25137**	**85%**
0:29	5:47	12/13/2019 21:17	GCMS11_191212_67.D	IB13	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	62247	102%	9.44	0.00	23025	96%	11.77	0.01	22760	91%
0:57	6:15	12/13/2019 21:45	GCMS11_191212_68.D	IB14	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	61707	101%	9.44	0.00	22192	93%	11.76	0.01	22665	90%

Work Order: 1912009, 1912011, 1912013

K O'Malley GC/MS#11

differnece from CCV (h:mm)	difference from BFB injection (h:mm)	Date Acquired	Data File Name	Sample Name	Misc Info	Last Calibration Update	(# 1) Ret Time	FLUOROBENZENE ≤ 10 sec difference from midpoint ICAL std or CCV RT	(# 1) Target Response	FLUOROBENZENE 50 - 200% % of midpoint ICAL std or CCV response	(# 36) Ret Time	CHLOROBENZENE-D5 ≤ 10 sec difference from midpoint ICAL std or CCV RT	(# 36) Target Response	CHLOROBENZENE-D5 50 - 200% % of midpoint ICAL std or CCV response	(# 59) Ret Time	1,4-DICHLOROBENZENE-D4 ≤ 10 sec difference from midpoint ICAL std or CCV RT	(# 59) Target Response	1,4-DICHLOROBENZENE-D4 50 - 200% % of midpoint ICAL std or CCV response
1:25	6:43	12/13/2019 22:13	GCMS11_191212_69.D	B19L019-BLK1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	57606	94%	9.44	0.00	21757	91%	11.76	0.01	22994	91%
1:54	7:12	12/13/2019 22:42	GCMS11_191212_70.D	B19L019-BLK2	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	60037	98%	9.44	0.00	21981	92%	11.77	0.00	22095	88%
2:22	7:40	12/13/2019 23:10	GCMS11_191212_71.D	1912009-11RE1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	60806	100%	9.44	0.00	21959	92%	11.77	0.00	21846	87%
2:50	8:08	12/13/2019 23:38	GCMS11_191212_72.D	1912009-04RE1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	59143	97%	9.44	0.00	21640	90%	11.77	0.00	22012	88%
3:18	8:36	12/14/2019 0:06	GCMS11_191212_73.D	1912009-07RE1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	57738	94%	9.44	0.00	20882	87%	11.77	0.00	21761	87%
3:47	9:05	12/14/2019 0:35	GCMS11_191212_74.D	1912009-10RE1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	60186	99%	9.44	0.00	22547	94%	11.77	0.00	22838	91%
4:15	9:33	12/14/2019 1:03	GCMS11_191212_75.D	1912009-06RE1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	57446	94%	9.44	0.00	21200	88%	11.77	0.00	20571	82%
4:44	10:02	12/14/2019 1:32	GCMS11_191212_76.D	1912009-09RE1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	59083	97%	9.44	0.00	22005	92%	11.77	0.00	22765	91%
5:12	10:30	12/14/2019 2:00	GCMS11_191212_77.D	IB15	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	58590	96%	9.44	0.00	22470	94%	11.76	0.01	22671	90%
0:00	10:58	**12/14/2019 2:28**	**GCMS11_191212_78.D**	**B19L019-BS1**	**LIMS 19L1101, 19L1201, 19L1202, 19L1203**	**Fri Dec 13 10:29:00 2019**	**6.26**	**0.00**	**60408**	**84%**	**9.44**	**0.00**	**23528**	**86%**	**11.77**	**0.00**	**25070**	**85%**
0:31	11:29	12/14/2019 2:59	GCMS11_191212_79.D	1912009-02RE1	LIMS 19L1101, 5X DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.01	49981	83%	9.44	0.00	19057	81%	11.77	0.00	19008	76%
0:59	11:57	12/14/2019 3:27	GCMS11_191212_80.D	IB16	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	58479	97%	9.44	0.00	22444	95%	11.77	0.00	22315	89%
1:28	**0:00**	12/14/2019 3:56	GCMS11_191212_81.D	IB17	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	56884	94%	9.44	0.00	21895	93%	11.77	0.00	21558	86%
1:59	0:31	12/14/2019 4:27	GCMS11_191212_82.D	1912009-05RE1	LIMS 19L1101, 5X DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.01	49097	81%	9.44	0.00	18478	79%	11.77	0.00	20503	82%
2:27	0:59	12/14/2019 4:55	GCMS11_191212_83.D	IB18	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	59215	98%	9.44	0.00	22728	97%	11.77	0.00	23236	93%
2:56	1:28	12/14/2019 5:24	GCMS11_191212_84.D	IB19	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	56426	93%	9.44	0.00	21478	91%	11.77	0.00	21043	84%
3:24	1:56	12/14/2019 5:52	GCMS11_191212_85.D	IB20	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	58198	96%	9.44	0.00	22686	96%	11.77	0.00	21092	84%
3:55	2:27	12/14/2019 6:23	GCMS11_191212_86.D	1912009-03RE1	LIMS 19L1101, 2X DILLUTION	Fri Dec 13 10:29:00 2019	6.26	0.00	49746	82%	9.44	0.00	19608	83%	11.77	0.00	18441	74%
4:24	2:56	12/14/2019 6:52	GCMS11_191212_87.D	IB21	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	57858	96%	9.44	0.00	22668	96%	11.76	0.01	20661	82%
4:52	3:24	12/14/2019 7:20	GCMS11_191212_88.D	IB22	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	59076	98%	9.44	0.00	20870	89%	11.77	0.00	21291	85%
5:21	3:53	12/14/2019 7:49	GCMS11_191212_89.D	IB23	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	59210	98%	9.44	0.00	22350	95%	11.77	0.00	21479	86%
5:52	4:24	12/14/2019 8:20	GCMS11_191212_90.D	1912009-08RE1	LIMS 19L1101, 10X DILUTION	Fri Dec 13 10:29:00 2019	6.26	0.00	52180	86%	9.44	0.00	21079	90%	11.77	0.00	21261	85%
6:20	4:52	12/14/2019 8:48	GCMS11_191212_91.D	IB24	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	58836	97%	9.44	0.00	20904	89%	11.77	0.00	22592	90%
6:48	5:20	12/14/2019 9:16	GCMS11_191212_92.D	IB25	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	58094	96%	9.44	0.00	22441	95%	11.76	0.01	21670	86%
7:17	5:49	12/14/2019 9:45	GCMS11_191212_93.D	IB26	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	60040	99%	9.44	0.00	22333	95%	11.77	0.00	22286	89%
7:45	6:17	12/14/2019 10:13	GCMS11_191212_94.D	IB27	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	57641	95%	9.44	0.00	22728	97%	11.77	0.00	21105	84%
8:14	6:46	12/14/2019 10:42	GCMS11_191212_95.D	IB28	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	57681	95%	9.44	0.00	21886	93%	11.77	0.00	22223	89%
8:42	7:14	**12/14/2019 11:10**	**GCMS11_191212_96.D**	**B19L019-BSD1**	**LIMS 19L1101, 19L1201, 19L1202, 19L1203**	**Fri Dec 13 10:29:00 2019**	**6.25**	**0.01**	**63028**	**88%**	**9.44**	**0.00**	**22962**	**84%**	**11.77**	**0.00**	**25347**	**86%**
NA	NA	12/16/2019 13:00	GCMS11_191216_01.D	IB1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	NA	66980	NA	9.44	NA	26417	NA	11.76	NA	24375	NA
NA	NA	12/16/2019 13:29	GCMS11_191216_02.D	IB2	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	NA	62265	NA	9.44	NA	23688	NA	11.77	NA	24048	NA
NA	**0:00**	12/16/2019 13:57	GCMS11_191216_03.D	IB3	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	NA	62088	NA	9.44	NA	24091	NA	11.77	NA	23116	NA
0:00	0:29	**12/16/2019 14:26**	**GCMS11_191216_04.D**	**B19L016-BS1**	**LIMS 19L1101**	**Fri Dec 13 10:29:00 2019**	**6.26**	**0.00**	**63822**	**89%**	**9.44**	**0.00**	**23749**	**86%**	**11.77**	**0.00**	**26757**	**90%**
0:28	0:57	12/16/2019 14:54	GCMS11_191216_05.D	B19L016-BLK1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	62772	98%	9.44	0.00	23787	100%	11.77	0.00	23585	88%
0:57	1:26	12/16/2019 15:23	GCMS11_191216_06.D	B19L016-BLK2	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	63243	99%	9.44	0.00	22841	96%	11.77	0.00	23348	87%
1:27	1:56	12/16/2019 15:53	GCMS11_191216_07.D	1912011-21	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.01	61337	96%	9.44	0.00	21800	92%	11.77	0.00	22681	85%
1:58	2:27	12/16/2019 16:24	GCMS11_191216_08.D	1912011-22	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.01	61869	97%	9.44	0.00	23223	98%	11.76	0.01	23170	87%
2:29	2:58	12/16/2019 16:55	GCMS11_191216_09.D	1912011-23	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.01	60068	94%	9.44	0.00	22576	95%	11.76	0.01	22140	83%
3:00	3:29	12/16/2019 17:26	GCMS11_191216_10.D	1912011-24	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.01	57542	90%	9.44	0.00	22279	94%	11.77	0.00	23114	86%
3:31	4:00	12/16/2019 17:57	GCMS11_191216_11.D	1912011-25	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.01	60921	95%	9.44	0.00	22148	93%	11.77	0.00	22299	83%
4:02	4:31	12/16/2019 18:28	GCMS11_191216_12.D	1912011-26	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.01	56566	89%	9.44	0.00	23120	97%	11.77	0.00	21737	81%
4:33	5:02	12/16/2019 18:59	GCMS11_191216_13.D	1912011-27	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.01	57605	90%	9.44	0.00	23276	98%	11.77	0.00	22465	84%
5:04	5:33	12/16/2019 19:30	GCMS11_191216_14.D	1912011-28	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.01	63442	99%	9.44	0.00	22855	96%	11.76	0.01	22907	86%
5:35	6:04	12/16/2019 20:01	GCMS11_191216_15.D	1912011-29	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.01	61438	96%	9.44	0.00	23117	97%	11.77	0.00	23384	87%
6:04	6:33	12/16/2019 20:30	GCMS11_191216_16.D	IB4	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	58389	91%	9.44	0.00	22289	94%	11.76	0.01	22975	86%
6:32	7:01	12/16/2019 20:58	GCMS11_191216_17.D	IB5	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	57478	90%	9.44	0.00	23425	99%	11.76	0.01	22458	84%
0:00	7:29	**12/16/2019 21:26**	**GCMS11_191216_18.D**	**B19L016-BSD1**	**LIMS 19L1101**	**Fri Dec 13 10:29:00 2019**	**6.25**	**0.01**	**60814**	**85%**	**9.44**	**0.00**	**23541**	**82%**	**11.77**	**0.00**	**26467**	**90%**
0:31	8:00	12/16/2019 21:57	GCMS11_191216_19.D	1912011-30	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.00	59899	98%	9.44	0.00	23316	103%	11.77	0.00	22148	84%
1:02	8:31	12/16/2019 22:28	GCMS11_191216_20.D	1912011-31	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.00	57098	94%	9.44	0.00	21331	95%	11.77	0.00	21498	81%
1:33	9:02	12/16/2019 22:59	GCMS11_191216_21.D	1912011-32	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.26	0.01	56249	92%	9.44	0.00	20253	90%	11.77	0.00	20021	76%
2:04	9:33	12/16/2019 23:30	GCMS11_191216_22.D	1912011-33	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.00	56925	94%	9.44	0.00	21398	95%	11.77	0.00	21683	82%
2:33	10:02	12/16/2019 23:59	GCMS11_191216_23.D	1912011-34	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	57034	94%	9.44	0.00	22011	98%	11.76	0.01	21843	83%
3:04	10:33	12/17/2019 0:30	GCMS11_191216_24.D	1912011-35	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.00	58860	97%	9.44	0.00	22974	102%	11.77	0.00	20944	79%
3:32	11:01	12/17/2019 0:58	GCMS11_191216_25.D	IB6	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	58588	96%	9.44	0.00	22106	98%	11.77	0.00	21840	83%
4:01	**0:00**	12/17/2019 1:27	GCMS11_191216_26.D	IB7	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	57620	95%	9.44	0.00	22033	98%	11.76	0.01	22628	85%
0:00	0:28	**12/17/2019 1:55**	**GCMS11_191216_27.D**	**B19L021-BS1**	**LIMS 19L1101**	**Fri Dec 13 10:29:00 2019**	**6.25**	**0.01**	**56439**	**79%**	**9.44**	**0.00**	**22169**	**81%**	**11.76**	**0.01**	**24099**	**82%**
0:28	0:56	12/17/2019 2:23	GCMS11_191216_28.D	B19L021-BLK1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	57948	103%	9.44	0.00	22556	102%	11.77	0.01	21107	88%
0:57	1:25	12/17/2019 2:52	GCMS11_191216_29.D	B19L021-BLK2	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	55751	99%	9.44	0.00	21357	96%	11.76	0.00	19430	81%
1:25	1:53	12/17/2019 3:20	GCMS11_191216_30.D	1912013-01	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	56210	100%	9.44	0.00	21020	95%	11.77	0.01	21529	89%
1:56	2:24	12/17/2019 3:51	GCMS11_191216_31.D	1912013-02	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.00	54663	97%	9.44	0.00	22615	102%	11.76	0.00	20626	86%
2:27	2:55	12/17/2019 4:22	GCMS11_191216_32.D	1912013-03	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.00	58212	103%	9.44	0.00	22001	99%	11.77	0.01	21300	88%
2:58	3:26	12/17/2019 4:53	GCMS11_191216_33.D	1912013-04	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.26	0.01	56267	100%	9.44	0.00	21034	95%	11.77	0.01	20927	87%
3:29	3:57	12/17/2019 5:24	GCMS11_191216_34.D	1912013-05	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.00	51570	91%	9.44	0.00	20012	90%	11.76	0.00	20152	84%
4:00	4:28	12/17/2019 5:55	GCMS11_191216_35.D	1912013-06	LIMS 19L1101, 50X ATOMIX DILUTION	Fri Dec 13 10:29:00 2019	6.25	0.00	55576	98%	9.44	0.00	22466	101%	11.77	0.01	21279	88%
4:29	4:57	12/17/2019 6:24	GCMS11_191216_36.D	1912013-07	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	55057	98%	9.44	0.00	21020	95%	11.77	0.01	20288	84%
0:00	5:25	**12/17/2019 6:52**	**GCMS11_191216_37.D**	**B19L021-BSD1**	**LIMS 19L1101**	**Fri Dec 13 10:29:00 2019**	**6.26**	**0.00**	**55475**	**77%**	**9.44**	**0.00**	**21596**	**79%**	**11.77**	**0.00**	**23722**	**80%**

Work Order: 1912009, 1912011, 1912013

K O'Malley GC/MS#11

difference from CCV (h:mm)	difference from BFB injection (h:mm)	Date Acquired	Data File Name	Sample Name	Misc Info	Last Calibration Update	(# 1) Ret Time	FLUIOROBENZENE ≤ 10 sec difference from midpoint ICAL std or CCV RT	(# 1) Target Response	FLUIOROBENZENE 50 - 200% % of midpoint ICAL std or CCV response	(# 36) Ret Time	CHLOROBENZENE-D5 ≤ 10 sec difference from midpoint ICAL std or CCV RT	(# 36) Target Response	CHLOROBENZENE-D5 50 - 200% % of midpoint ICAL std or CCV response	(# 59) Ret Time	1,4-DICHLOROBENZENE-D4 ≤ 10 sec difference from midpoint ICAL std or CCV RT	(# 59) Target Response	1,4-DICHLOROBENZENE-D4 50 - 200% % of midpoint ICAL std or CCV response
1:51	**0:00**	12/17/2019 8:43	GCMS11_191217_01.D	BFB DIRECT INJECT	LIMS 18G1106	Fri Dec 13 10:29:00 2019	6.25	0.01	178	NA	0	NA	0	NA	0	NA	0	NA
2:40	0:49	12/17/2019 9:32	GCMS11_191217_02.D	IB1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	60888	NA	9.44	0.00	21343	NA	11.76	0.01	23275	NA
0:00	1:17	**12/17/2019 10:00**	**GCMS11_191217_03.D**	**B19L023-BS1**	**LIMS 19L1101**	**Fri Dec 13 10:29:00 2019**	**6.26**	**0.00**	**60538**	**85%**	**9.44**	**0.00**	**23071**	**84%**	**11.76**	**0.01**	**24833**	**84%**
0:29	1:46	12/17/2019 10:29	GCMS11_191217_04.D	B19L015-BLK1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	58278	96%	9.44	0.00	21180	92%	11.77	0.01	20652	83%
1:59	3:16	12/17/2019 11:59	GCMS11_191217_05.D	1912011-01RE1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	59334	98%	9.44	0.00	23063	100%	11.76	0.00	20658	83%
2:27	3:44	12/17/2019 12:27	GCMS11_191217_06.D	1912011-02RE1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	57258	95%	9.44	0.00	21382	93%	11.77	0.01	22110	89%
2:58	4:15	12/17/2019 12:58	GCMS11_191217_07.D	1912011-15RE2	LIMS 19L1101, 25X bench, 5x atomx dilution	Fri Dec 13 10:29:00 2019	6.26	0.00	42610	70%	9.44	0.00	16536	72%	11.76	0.00	17954	72%
3:30	4:47	12/17/2019 13:30	GCMS11_191217_08.D	1912011-12RE2	LIMS 19L1101, 100X ATOMX	Fri Dec 13 10:29:00 2019	6.25	0.01	51311	85%	9.44	0.00	19413	84%	11.77	0.01	20802	84%
4:01	5:18	12/17/2019 14:01	GCMS11_191217_09.D	1912011-16ER1	LIMS 19L1101, 25X ATOMX	Fri Dec 13 10:29:00 2019	6.25	0.01	56859	94%	9.44	0.00	20554	89%	11.77	0.01	22778	92%
4:32	5:49	12/17/2019 14:32	GCMS11_191217_10.D	1912011-13RE1	LIMS 19L1101, 10X ATOMX	Fri Dec 13 10:29:00 2019	6.25	0.01	52348	86%	9.44	0.00	20813	90%	11.77	0.01	19682	79%
5:03	6:20	12/17/2019 15:03	GCMS11_191217_11.D	1912011-11RE2	LIMS 19L1101, 25X BENCH, 5X ATOMX DILUTION	Fri Dec 13 10:29:00 2019	6.26	0.00	47471	78%	9.44	0.00	17974	78%	11.77	0.01	17514	71%
5:34	6:51	12/17/2019 15:34	GCMS11_191217_12.D	1912011-03RE1	LIMS 19L1101, 2X ATOMX	Fri Dec 13 10:29:00 2019	6.25	0.01	50534	83%	9.44	0.00	19253	83%	11.77	0.01	20163	81%
6:05	7:22	12/17/2019 16:05	GCMS11_191217_13.D	1912011-17RE1	LIMS 19L1101, 10X ATOMX	Fri Dec 13 10:29:00 2019	6.25	0.01	48891	81%	9.44	0.00	18926	82%	11.76	0.00	18943	76%
6:34	7:51	12/17/2019 16:34	GCMS11_191217_14.D	IB2	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	54826	91%	9.44	0.00	21056	91%	11.77	0.01	21793	88%
7:02	8:19	12/17/2019 17:02	GCMS11_191217_15.D	IB3	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	54416	90%	9.44	0.00	21545	93%	11.77	0.01	20911	84%
7:33	8:50	12/17/2019 17:33	GCMS11_191217_16.D	1912011-07RE1	LIMS 19L1101, 2X ATOMX	Fri Dec 13 10:29:00 2019	6.26	0.00	50045	83%	9.44	0.00	18882	82%	11.77	0.01	19945	80%
8:02	9:19	12/17/2019 18:02	GCMS11_191217_17.D	IB4	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	54719	90%	9.44	0.00	21094	91%	11.77	0.01	21195	85%
8:30	9:47	12/17/2019 18:30	GCMS11_191217_18.D	IB5	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	57171	94%	9.44	0.00	20010	87%	11.76	0.00	20313	82%
9:01	10:18	12/17/2019 19:01	GCMS11_191217_19.D	1912011-08RE1	LIMS 19L1101, 5X ATOMX	Fri Dec 13 10:29:00 2019	6.25	0.01	49370	82%	9.44	0.00	18798	81%	11.77	0.01	18845	76%
9:29	10:46	12/17/2019 19:29	GCMS11_191217_20.D	IB6	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	54115	89%	9.44	0.00	20767	90%	11.76	0.00	20754	84%
9:58	11:15	12/17/2019 19:58	GCMS11_191217_21.D	IB7	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	55555	92%	9.44	0.00	20568	89%	11.77	0.01	20092	81%
10:29	11:46	12/17/2019 20:29	GCMS11_191217_22.D	1912011-09RE1	LIMS 19L1101, 5X ATOMX	Fri Dec 13 10:29:00 2019	6.26	0.00	47534	79%	9.44	0.00	18953	82%	11.77	0.01	18021	73%
10:57	**0:00**	12/17/2019 20:57	GCMS11_191217_23.D	IB8	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	55962	92%	9.44	0.00	20285	88%	11.77	0.01	21229	85%
11:26	0:29	12/17/2019 21:26	GCMS11_191217_24.D	IB9	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	55432	92%	9.44	0.00	20505	89%	11.76	0.00	21423	86%
11:54	0:57	12/17/2019 21:54	GCMS11_191217_25.D	IB10	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	56006	93%	9.44	0.00	20735	90%	11.76	0.00	20521	83%
0:00	1:26	**12/17/2019 22:23**	**GCMS11_191217_26.D**	**B19L023-BSD1**	**LIMS 19L1101, 12L1201, 12L1202**	**Fri Dec 13 10:29:00 2019**	**6.25**	**0.01**	**58804**	**82%**	**9.44**	**0.00**	**21819**	**79%**	**11.77**	**0.00**	**22926**	**78%**
0:28	1:54	12/17/2019 22:51	GCMS11_191217_27.D	1912011-15RE1	LIMS 19L1101, 25X BENCH	Fri Dec 13 10:29:00 2019	6.26	0.01	54260	92%	9.44	0.00	20558	94%	11.77	0.00	22236	97%
0:57	2:23	12/17/2019 23:20	GCMS11_191217_28.D	IB11	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	55745	95%	9.44	0.00	20917	96%	11.76	0.01	20733	90%
1:25	2:51	12/17/2019 23:48	GCMS11_191217_29.D	IB12	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	57367	98%	9.44	0.00	20527	94%	11.76	0.01	20606	90%
1:54	3:20	12/18/2019 0:17	GCMS11_191217_30.D	IB13	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	52599	89%	9.44	0.00	20618	94%	11.77	0.00	20044	87%
2:24	3:50	12/18/2019 0:47	GCMS11_191217_31.D	1912011-06RE1	LIMS 19L1101, 5X ATOMX	Fri Dec 13 10:29:00 2019	6.25	0.01	48234	82%	9.44	0.00	18568	85%	11.76	0.01	18292	80%
2:53	4:19	12/18/2019 1:16	GCMS11_191217_32.D	IB14	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	56012	95%	9.44	0.00	20265	93%	11.77	0.00	20130	88%
3:21	4:47	12/18/2019 1:44	GCMS11_191217_33.D	IB15	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	53666	91%	9.44	0.00	20136	92%	11.77	0.00	18217	79%
3:50	5:16	12/18/2019 2:13	GCMS11_191217_34.D	IB16	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	52601	89%	9.44	0.00	20611	94%	11.76	0.01	19633	86%
4:21	5:47	12/18/2019 2:44	GCMS11_191217_35.D	1912011-10RE1	LIMS 19L1101, 5X ATOMX	Fri Dec 13 10:29:00 2019	6.25	0.00	49049	83%	9.44	0.00	19975	92%	11.77	0.00	18374	80%
4:49	6:15	12/18/2019 3:12	GCMS11_191217_36.D	IB17	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	52923	90%	9.44	0.00	20246	93%	11.76	0.01	19322	84%
5:17	6:43	12/18/2019 3:40	GCMS11_191217_37.D	IB18	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	55248	94%	9.44	0.00	20318	93%	11.77	0.00	19859	87%
5:46	7:12	12/18/2019 4:09	GCMS11_191217_38.D	IB19	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	54863	93%	9.44	0.00	20319	93%	11.77	0.00	20209	88%
6:14	7:40	12/18/2019 4:37	GCMS11_191217_39.D	1912011-11RE1	LIMS 19L1101, 25X BENCH	Fri Dec 13 10:29:00 2019	6.25	0.00	52974	90%	9.44	0.00	19833	91%	11.76	0.01	19127	83%
6:43	8:09	12/18/2019 5:06	GCMS11_191217_40.D	IB20	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	52712	90%	9.44	0.00	19973	92%	11.77	0.00	19490	85%
7:11	8:37	12/18/2019 5:34	GCMS11_191217_41.D	IB21	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	53668	91%	9.44	0.00	19399	89%	11.76	0.01	19614	86%
7:39	9:05	12/18/2019 6:02	GCMS11_191217_42.D	IB22	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	51948	88%	9.44	0.00	19466	89%	11.76	0.01	18798	82%
8:08	9:34	12/18/2019 6:31	GCMS11_191217_43.D	IB23	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	53622	91%	9.44	0.00	19095	88%	11.77	0.00	20409	89%
8:36	10:02	12/18/2019 6:59	GCMS11_191217_44.D	CCV1	LIMS 19L1101, 12L1201, 12L1202	Fri Dec 13 10:29:00 2019	6.25	0.00	49683	84%	9.44	0.00	18669	86%	11.77	0.00	17877	78%
9:07	10:33	12/18/2019 7:30	GCMS11_191217_45.D	1912011-05RE1	LIMS 19L1101, 10X ATOMX	Fri Dec 13 10:29:00 2019	6.25	0.00	49554	84%	9.44	0.00	19647	90%	11.76	0.01	21860	95%
9:35	11:01	12/18/2019 7:58	GCMS11_191217_46.D	IB24	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	54945	93%	9.44	0.00	20831	95%	11.76	0.01	21189	92%
10:03	11:29	12/18/2019 8:26	GCMS11_191217_47.D	IB25	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	53147	90%	9.44	0.00	19392	89%	11.76	0.01	20006	87%
10:32	11:58	12/18/2019 8:55	GCMS11_191217_48.D	IB26	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	52418	89%	9.44	0.00	20169	92%	11.76	0.01	20686	90%
11:00	**0:00**	12/18/2019 9:23	GCMS11_191217_49.D	IB27	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	51527	88%	9.44	0.00	19563	90%	11.77	0.00	20099	88%
11:31	0:31	12/18/2019 9:54	GCMS11_191217_50.D	1912011-12RE1, 10X ATOMX	LIMS 19L1101, 12L1201, 12L1202	Fri Dec 13 10:29:00 2019	6.25	0.00	51551	88%	9.44	0.00	19703	90%	11.77	0.00	21883	95%
11:59	0:59	12/18/2019 10:22	GCMS11_191217_51.D	IB28	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	52966	90%	9.44	0.00	19434	89%	11.77	0.00	18697	82%
NA	1:28	12/18/2019 10:51	GCMS11_191217_52.D	IB29	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	53686	91%	9.44	0.00	19295	88%	11.77	0.00	18850	82%
NA	1:56	12/18/2019 11:19	GCMS11_191217_53.D	IB30	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	54773	93%	9.44	0.00	19750	91%	11.77	0.00	19740	86%
0:00	2:24	**12/18/2019 11:47**	**GCMS11_191217_54.D**	**CCV2**	**LIMS 19L1101**	**Fri Dec 13 10:29:00 2019**	**6.25**	**0.01**	**53254**	**74%**	**9.44**	**0.00**	**20027**	**73%**	**11.76**	**0.01**	**21158**	**72%**
0:31	2:55	12/18/2019 12:18	GCMS11_191217_55.D	1912011-14RE1	LIMS 19L1101, 5X ATOMX	Fri Dec 13 10:29:00 2019	6.25	0.00	51240	96%	9.44	0.00	18581	93%	11.77	0.00	21417	101%
0:59	3:23	12/18/2019 12:46	GCMS11_191217_56.D	IB31	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	53833	101%	9.44	0.00	21938	110%	11.76	0.01	20019	95%
1:28	3:52	12/18/2019 13:15	GCMS11_191217_57.D	IB32	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	55533	104%	9.44	0.00	19438	97%	11.76	0.01	20109	95%
1:56	4:20	12/18/2019 13:43	GCMS11_191217_58.D	IB33	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	53112	100%	9.44	0.00	20151	101%	11.77	0.00	18890	89%
2:27	4:51	12/18/2019 14:14	GCMS11_191217_59.D	1912011-04RE1	LIMS 19L1101, 5X ATOMX	Fri Dec 13 10:29:00 2019	6.26	0.01	50266	94%	9.44	0.00	17670	88%	11.77	0.00	21829	103%
2:56	5:20	12/18/2019 14:43	GCMS11_191217_60.D	IB34	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	54081	102%	9.44	0.00	20687	103%	11.77	0.00	21481	102%
3:24	5:48	12/18/2019 15:11	GCMS11_191217_61.D	IB35	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	53557	101%	9.44	0.00	19902	99%	11.77	0.00	20401	96%
3:52	6:16	12/18/2019 15:39	GCMS11_191217_62.D	IB36	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	51458	97%	9.44	0.00	19376	97%	11.77	0.00	19906	94%
4:21	6:45	12/18/2019 16:08	GCMS11_191217_63.D	IB37	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	54588	103%	9.44	0.00	19508	97%	11.76	0.01	19571	92%
0:00	7:13	**12/18/2019 16:36**	**GCMS11_191217_64.D**	**B19L023-CCV3**	**LIMS 19L1101**	**Fri Dec 13 10:29:00 2019**	**6.25**	**0.01**	**54891**	**77%**	**9.44**	**0.00**	**20039**	**73%**	**11.76**	**0.01**	**21573**	**73%**
NA	**0:00**	12/18/2019 17:31	GCMS11_191218_01.D	BFB DIRECT INJECT	LIMS 18G1106	Fri Dec 13 10:29:00 2019	6.28	NA	99	NA	0	NA	0	NA	0	NA	0	NA
0:00	0:20	**12/18/2019 17:51**	**GCMS11_191218_02.D**	**B19L021-BS2**	**LIMS 19L1101, 19L1201, 19L1812**	**Fri Dec 13 10:29:00 2019**	**6.25**	**0.01**	**54707**	**76%**	**9.44**	**0.00**	**21464**	**78%**	**11.77**	**0.00**	**22954**	**78%**
0:29	0:49	12/18/2019 18:20	GCMS11_191218_03.D	B19L021-BLK3	LIMS 19L1101, METHOD BLK	Fri Dec 13 10:29:00 2019	6.26	0.01	54199	99%	9.44	0.00	20022	93%	11.77	0.00	19505	85%
0:57	1:17	12/18/2019 18:48	GCMS11_191218_04.D	1912013-02RE1	LIMS 19L1101, 19L1201, 19L1812	Fri Dec 13 10:29:00 2019	6.26	0.01	54373	99%	9.44	0.00	20543	96%	11.77	0.00	19004	83%
1:26	1:46	12/18/2019 19:17	GCMS11_191218_05.D	1912013-03RE1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	58368	107%	9.44	0.00	21100	98%	11.77	0.00	20893	91%
1:54	2:14	12/18/2019 19:45	GCMS11_191218_06.D	1912013-04RE1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	52800	97%	9.44	0.00	19571	91%	11.77	0.00	19095	83%
2:22	2:42	12/18/2019 20:13	GCMS11_191218_07.D	1912013-06RE1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	53260	97%	9.44	0.00	21159	99%	11.76	0.01	19542	85%
2:50	3:10	12/18/2019 20:41	GCMS11_191218_08.D	1912013-05RE1	2X ATOMX, 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	53618	98%	9.44	0.00	21542	100%	11.77	0.00	20054	87%
3:19	3:39	12/18/2019 21:10	GCMS11_191218_09.D	IB	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	49966	91%	9.44	0.00	19199	89%	11.76	0.01	19068	83%
0:00	4:07	**12/18/2019 21:38**	**GCMS11_191218_10.D**	**B19L021-BSD2**	**LIMS 19L1101, 19L1201, 19L1812**	**Fri Dec 13 10:29:00 2019**	**6.26**	**0.00**	**49047**	**68%**	**9.44**	**0.00**	**19566**	**71%**	**11.76**	**0.01**	**20307**	**69%**
0:29	4:36	12/18/2019 22:07	GCMS11_191218_11.D	B19L025-BLK1	LIMS 19L1101, 19L1201, 19L1812 SOURCE 1912011-28	Fri Dec 13 10:29:00 2019	6.26	0.00	53341	109%	9.44	0.00	19099	98%	11.76	0.00	18775	92%
0:57	5:04	12/18/2019 22:35	GCMS11_191218_12.D	1912011-33RE1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	54219	111%	9.44	0.00	20871	107%	11.77	0.01	19579	96%
1:26	5:33	12/18/2019 23:04	GCMS11_191218_13.D	1912011-28RE1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	52173	106%	9.44	0.00	19679	101%	11.76	0.00	19665	97%
1:54	6:01	12/18/2019 23:32	GCMS11_191218_14.D	B19L025-MS2	LIMS 19L1101, 19L1201, 19L1812 SOURCE 1912011-28	Fri Dec 13 10:29:00 2019	6.26	0.00	54941	112%	9.44	0.00	21326	109%	11.76	0.00	23643	116%
2:22	6:29	12/19/2019 0:00	GCMS11_191218_15.D	B19L025-MSD2	LIMS 19L1101, 19L1201, 19L1812, SOURCE 1912011-28	Fri Dec 13 10:29:00 2019	6.25	0.01	54117	110%	9.44	0.00	20432	104%	11.77	0.01	22452	111%
2:51	6:58	12/19/2019 0:29	GCMS11_191218_16.D	1912011-31RE1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	52892	108%	9.44	0.00	18785	96%	11.77	0.01	19973	98%
3:19	7:26	12/19/2019 0:57	GCMS11_191218_17.D	B19L025-MS3	LIMS 19L1101, 19L1201, 19L1812, SOURCE 1912011-31	Fri Dec 13 10:29:00 2019	6.25	0.01	56910	116%	9.44	0.00	22150	113%	11.76	0.00	23270	115%
3:48	7:55	12/19/2019 1:26	GCMS11_191218_18.D	B19L025-MSD3	LIMS 19L1101, 19L1201, 19L1812, SOURCE 1912011-31	Fri Dec 13 10:29:00 2019	6.25	0.01	55866	114%	9.44	0.00	21619	110%	11.76	0.00	22982	113%
4:16	8:23	12/19/2019 1:54	GCMS11_191218_19.D	1912011-27RE1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	54898	112%	9.44	0.00	20871	107%	11.76	0.00	19199	95%
4:44	8:51	12/19/2019 2:22	GCMS11_191218_20.D	1912011-29RE1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	50224	102%	9.44	0.00	20348	104%	11.77	0.01	19593	96%
5:12	9:19	12/19/2019 2:50	GCMS11_191218_21.D	1912011-30RE1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	50359	103%	9.44	0.00	19251	98%	11.76	0.00	18404	91%
5:41	9:48	12/19/2019 3:19	GCMS11_191218_22.D	1912011-32RE1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	51769	106%	9.44	0.00	18483	94%	11.76	0.00	18490	91%
6:12	10:19	12/19/2019 3:50	GCMS11_191218_23.D	1912011-24RE1	2X DILUTION, LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	44807	91%	9.44	0.00	18088	92%	11.77	0.01	16775	83%
6:40	10:47	12/19/2019 4:18	GCMS11_191218_24.D	IB1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	53153	108%	9.44	0.00	20456	105%	11.77	0.01	19388	95%
7:08	11:15	12/19/2019 4:46	GCMS11_191218_25.D	IB2	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	50455	103%	9.44	0.00	20712	106%	11.77	0.01	18793	93%
7:39	11:46	12/19/2019 5:17	GCMS11_191218_26.D	1912011-23RE1	2X ATOMX DILUTION, LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	45440	93%	9.44	0.00	17794	91%	11.77	0.01	16101	79%
8:08	**0:00**	12/19/2019 5:46	GCMS11_191218_27.D	IB3	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	50769	104%	9.44	0.00	19947	102%	11.76	0.00	18842	93%
8:36	0:28	12/19/2019 6:14	GCMS11_191218_28.D	IB4	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	49228	100%	9.44	0.00	18693	96%	11.76	0.00	17700	87%
0:00	0:56	**12/19/2019 6:42**	**GCMS11_191218_29.D**	**B19L025-BS1**	**LIMS 19L1101, 19L1201, 19L1812**	**Fri Dec 13 10:29:00 2019**	**6.25**	**0.01**	**51865**	**72%**	**9.44**	**0.00**	**20709**	**75%**	**11.76**	**0.01**	**23209**	**78%**

Work Order: 1912009, 1912011, 1912013

K O'Malley GC/MS#11

differnece from CCV (h:mm)	difference from BFB injection (h:mm)	Date Acquired	Data File Name	Sample Name	Misc Info	Last Calibration Update	(# 1) Ret Time	FLUOROBENZENE ≤ 10 sec difference from midpoint ICAL std or CCV RT	(# 1) Target Response	FLUOROBENZENE 50 - 200% % of midpoint ICAL std or CCV response	(# 36) Ret Time	CHLOROBENZENE-D5 ≤ 10 sec difference from midpoint ICAL std or CCV RT	(# 36) Target Response	CHLOROBENZENE-D5 50 - 200% % of midpoint ICAL std or CCV response	(# 59) Ret Time	1,4-DICHLOROBENZENE-D4 ≤ 10 sec difference from midpoint ICAL std or CCV RT	(# 59) Target Response	1,4-DICHLOROBENZENE-D4 50 - 200% % of midpoint ICAL std or CCV response
0:31	1:27	12/19/2019 7:13	GCMS11_191218_30.D	1912011-25RE1	5X ATOMX DILUTION, LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	43247	83%	9.44	0.00	16342	79%	11.76	0.00	15326	66%
1:00	1:56	12/19/2019 7:42	GCMS11_191218_31.D	IB5	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	50320	97%	9.44	0.00	19919	96%	11.77	0.01	18816	81%
1:28	2:24	12/19/2019 8:10	GCMS11_191218_32.D	IB6	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	49622	96%	9.44	0.00	18916	91%	11.77	0.01	18917	82%
1:59	2:55	12/19/2019 8:41	GCMS11_191218_33.D	1912011-22RE1	2X ATOMX DILUTION, LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	47886	92%	9.44	0.00	18222	88%	11.76	0.00	17399	75%
2:28	3:24	12/19/2019 9:10	GCMS11_191218_34.D	IB7	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	50701	98%	9.44	0.00	19699	95%	11.77	0.01	18543	80%
2:56	3:52	12/19/2019 9:38	GCMS11_191218_35.D	IB8	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	50775	98%	9.44	0.00	19930	96%	11.77	0.01	19236	83%
3:27	4:23	12/19/2019 10:09	GCMS11_191218_36.D	1912011-35RE1	2X DILUTION, LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	49724	96%	9.44	0.00	18811	91%	11.77	0.01	18360	79%
3:55	4:51	12/19/2019 10:37	GCMS11_191218_37.D	IB9	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	50528	97%	9.44	0.00	19180	93%	11.77	0.01	17648	76%
4:24	5:20	12/19/2019 11:06	GCMS11_191218_38.D	IB10	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	51602	99%	9.44	0.00	19759	95%	11.76	0.00	18335	79%
4:52	5:48	12/19/2019 11:34	GCMS11_191218_39.D	IB11	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	48711	94%	9.44	0.00	19635	95%	11.76	0.00	18948	82%
5:23	6:19	12/19/2019 12:05	GCMS11_191218_40.D	1912011-26RE1	2X ATOMX DILUTION, 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	45491	88%	9.44	0.00	16835	81%	11.77	0.01	16041	69%
5:52	6:48	12/19/2019 12:34	GCMS11_191218_41.D	IB12	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	53011	102%	9.44	0.00	18949	92%	11.77	0.01	18610	80%
6:20	7:16	12/19/2019 13:02	GCMS11_191218_42.D	IB13	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	48150	93%	9.44	0.00	19485	94%	11.77	0.01	17890	77%
6:48	7:44	12/19/2019 13:30	GCMS11_191218_43.D	IB14	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	49849	96%	9.44	0.00	19241	93%	11.76	0.00	17681	76%
7:17	8:13	12/19/2019 13:59	GCMS11_191218_44.D	IB(sequence mismatch)	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	50311	97%	9.44	0.00	19373	94%	11.76	0.00	17365	75%
7:47	8:43	12/19/2019 14:29	GCMS11_191218_45.D	1912011-21RE1	5X ATOMX DILUTION, LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	42952	83%	9.44	0.00	16775	81%	11.77	0.01	18550	80%
8:16	9:12	12/19/2019 14:58	GCMS11_191218_46.D	IB17	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	52473	101%	9.44	0.00	19841	96%	11.77	0.01	18460	80%
8:44	9:40	12/19/2019 15:26	GCMS11_191218_47.D	IB18	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	49094	95%	9.44	0.00	17471	84%	11.77	0.01	17819	77%
9:13	**0:00**	12/19/2019 15:55	GCMS11_191218_48.D	IB19	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	50101	97%	9.44	0.00	18995	92%	11.77	0.01	17123	74%
9:43	0:30	12/19/2019 16:25	GCMS11_191218_49.D	B19L025-MS1 (sequence mismatch)	50X DILUTION LIMS 19L1101, 19L1201, 19L1812, SOURCE 1912011-21	Fri Dec 13 10:29:00 2019	6.25	0.00	50777	98%	9.44	0.00	19617	95%	11.77	0.01	19997	86%
10:14	1:01	12/19/2019 16:56	GCMS11_191218_50.D	B19L025-MSD1	50X DILUTION LIMS 19L1101, 19L1201, 19L1812, SOURCE 1912011-21	Fri Dec 13 10:29:00 2019	6.26	0.01	52172	101%	9.44	0.00	18453	89%	11.76	0.00	19245	83%
0:00	1:29	**12/19/2019 17:24**	**GCMS11_191218_51.D**	**B19L025-BSD1**	**LIMS 19L1101, 19L1201, 19L1812**	**Fri Dec 13 10:29:00 2019**	**6.25**	**0.01**	**53899**	**75%**	**9.44**	**0.00**	**20072**	**73%**	**11.76**	**0.01**	**22129**	**75%**
0:28	1:57	12/19/2019 17:52	GCMS11_191218_53.D	B19L026-BLK1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	49646	92%	9.44	0.00	18665	93%	11.76	0.00	18903	85%
0:57	2:26	12/19/2019 18:21	GCMS11_191218_54.D	B19L026-BLK2	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	51338	95%	9.44	0.00	20243	101%	11.76	0.00	17854	81%
1:27	2:56	12/19/2019 18:51	GCMS11_191218_55.D	1912011-32RE2	2X ATOMX DILUTION, LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	44939	83%	9.44	0.00	16962	85%	11.76	0.00	16716	76%
1:55	3:24	12/19/2019 19:19	GCMS11_191218_56.D	1912011-03RE2	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	50627	94%	9.44	0.00	19922	99%	11.77	0.01	18864	85%
2:23	3:52	12/19/2019 19:47	GCMS11_191218_57.D	IB1	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	52932	98%	9.44	0.00	20590	103%	11.77	0.01	18593	84%
2:51	4:20	12/19/2019 20:15	GCMS11_191218_58.D	IB2	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	51990	96%	9.44	0.00	18587	93%	11.76	0.00	17586	79%
3:20	4:49	12/19/2019 20:44	GCMS11_191218_59.D	1912009-02RE2	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	53823	100%	9.44	0.00	20038	100%	11.76	0.00	18028	81%
3:48	5:17	12/19/2019 21:12	GCMS11_191218_60.D	IB3	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	49777	92%	9.44	0.00	19520	97%	11.76	0.00	17944	81%
4:16	5:45	12/19/2019 21:40	GCMS11_191218_61.D	IB4	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	50566	94%	9.44	0.00	19536	97%	11.76	0.00	18859	85%
0:00	6:13	**12/19/2019 22:08**	**GCMS11_191218_52.D**	**B19L026-BS1**	**LIMS 19L1101, 19L1201, 19L1812**	**Fri Dec 13 10:29:00 2019**	**6.26**	**0.00**	**51833**	**72%**	**9.44**	**0.00**	**19519**	**71%**	**11.77**	**0.00**	**22251**	**75%**
0:28	6:41	12/19/2019 22:36	GCMS11_191218_62.D	1912011-23RE2	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	52637	102%	9.44	0.00	20248	104%	11.77	0.00	19197	86%
0:57	7:10	12/19/2019 23:05	GCMS11_191218_63.D	IB5	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	50842	98%	9.44	0.00	19130	98%	11.77	0.00	17896	80%
1:25	7:38	12/19/2019 23:33	GCMS11_191218_64.D	IB6	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	50940	98%	9.44	0.00	18837	97%	11.77	0.00	18214	82%
1:53	8:06	12/20/2019 0:01	GCMS11_191218_65.D	1912011-07RE2	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	49227	95%	9.44	0.00	19418	99%	11.76	0.01	20722	93%
2:21	8:34	12/20/2019 0:29	GCMS11_191218_66.D	IB7	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	50399	97%	9.44	0.00	19484	100%	11.76	0.01	17225	77%
2:49	**0:00**	12/20/2019 0:57	GCMS11_191218_67.D	IB8	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	51632	100%	9.44	0.00	19768	101%	11.76	0.01	18491	83%
3:17	0:28	12/20/2019 1:25	GCMS11_191218_68.D	1912011-25RE2	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.00	49335	95%	9.44	0.00	19270	99%	11.77	0.00	17999	81%
3:45	0:56	12/20/2019 1:53	GCMS11_191218_69.D	IB9	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	49928	96%	9.44	0.00	19515	100%	11.76	0.01	18073	81%
4:14	1:25	12/20/2019 2:22	GCMS11_191218_70.D	IB10	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.01	50758	98%	9.44	0.00	19781	101%	11.76	0.01	17395	78%
0:00	1:53	**12/20/2019 2:50**	**GCMS11_191218_71.D**	**B19L026-CCV1**	**LIMS 19L1101, 19L1201, 19L1812**	**Fri Dec 13 10:29:00 2019**	**6.25**	**0.01**	**55018**	**77%**	**9.44**	**0.00**	**19626**	**71%**	**11.76**	**0.01**	**21165**	**72%**
0:28	2:21	12/20/2019 3:18	GCMS11_191218_72.D	1912011-24RE2	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	51689	94%	9.44	0.00	19583	100%	11.77	0.01	17912	**85%**
0:57	2:50	12/20/2019 3:47	GCMS11_191218_73.D	IB11	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	51072	93%	9.44	0.00	20043	102%	11.76	0.00	17360	**82%**
1:25	3:18	12/20/2019 4:15	GCMS11_191218_74.D	IB12	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	47547	86%	9.44	0.00	18275	93%	11.76	0.00	16887	**80%**
1:53	3:46	12/20/2019 4:43	GCMS11_191218_75.D	1912011-22RE2	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	51552	94%	9.44	0.00	19534	100%	11.77	0.01	18363	**87%**
2:21	4:14	12/20/2019 5:11	GCMS11_191218_76.D	IB13	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	47374	86%	9.44	0.00	18029	92%	11.76	0.00	16890	**80%**
2:49	4:42	12/20/2019 5:39	GCMS11_191218_77.D	IB14	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	50806	92%	9.44	0.00	19189	98%	11.76	0.00	16201	**77%**
3:20	5:13	12/20/2019 6:10	GCMS11_191218_78.D	1912011-08RE2	5X ATOMX DILUTION, LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	40336	73%	9.44	0.00	15361	78%	11.77	0.01	15818	**75%**
3:48	5:41	12/20/2019 6:38	GCMS11_191218_79.D	IB15	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	51266	93%	9.44	0.00	18882	96%	11.76	0.00	17348	**82%**
4:16	6:09	12/20/2019 7:06	GCMS11_191218_80.D	IB16	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.25	0.00	50406	92%	9.44	0.00	18848	96%	11.76	0.00	18069	**85%**
4:44	6:37	12/20/2019 7:34	GCMS11_191218_81.D	IB17	LIMS 19L1101	Fri Dec 13 10:29:00 2019	6.26	0.01	50267	91%	9.44	0.00	18691	95%	11.77	0.01	16947	**80%**
5:13	7:06	**12/20/2019 8:03**	**GCMS11_191218_82.D**	**B19L026-BSD1**	**LIMS 19L1101, 19L1201, 19L1812**	**Fri Dec 13 10:29:00 2019**	**6.25**	**0.01**	**53619**	**75%**	**9.44**	**0.00**	**19196**	**70%**	**11.76**	**0.01**	**21650**	**73%**

Schedule "GCMS_191212.4" version 9

Instrument: Atomx #1
Last Save Time: Friday, December 13, 2019 at 5:18:00 PM
Creation Time: Friday, December 13, 2019 at 8:23:25 AM

Comments: None

Line	Use?	Vial	Method	Type	STD 1	STD 2	STD 3	Dilution
1	No	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
2	No	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
3	No	1	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
4	No	2	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
5	No	3	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
6	No	4	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
7	No	5	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
8	No	6	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
9	No	7	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
10	No	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
11	No	8	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
12	No	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
13	No	9	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
14	No	10	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
15	No	11	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
16	No	12	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
17	No	13	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
18	No	14	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
19	No	15	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
20	No	16	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
21	No	17	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
22	No	18	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
23	No	19	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
24	No	20	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
25	No	21	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
26	No	22	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
27	No	23	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
28	No	24	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
29	No	25	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
30	No	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
31	No	26	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
32	No	27	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
33	No	28	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
34	No	29	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
35	No	30	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
36	No	31	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
37	No	32	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
38	No	33	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
39	No	34	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
40	No	35	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
41	No	36	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
42	No	37	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
43	No	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
44	No	38	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1

45	No	39	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
46	No	40	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
47	Yes	41	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
48	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
49	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
50	Yes	42	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
51	Yes	43	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
52	Yes	44	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
53	Yes	45	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
54	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
55	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
56	Yes	46	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
57	Yes	47	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
58	Yes	48	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
59	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
60	Yes	49	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
61	Yes	50	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
62	Yes	51	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
63	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
64	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
65	Yes	52	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
66	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
67	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
68	Yes	53	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
69	Yes	54	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
70	Yes	55	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
71	Yes	56	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
72	Yes	57	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
73	Yes	58	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
74	Yes	59	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
75	Yes	60	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
76	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
77	Yes	61	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
78	Yes	62	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:5
79	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
80	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
81	Yes	63	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:5
82	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
83	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
84	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
85	Yes	64	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:2
86	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
87	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
88	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
89	Yes	65	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:10
90	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
91	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
92	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
93	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
94	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
95	Yes	66	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1

```
                        2019 Dec 12 1027 Sequence Log
  Starting sequence Thu Dec 12 10:27:38 2019

Instrument Name: GC MS 11
  Sequence File: D:\MKERR\SEQUENCES\GCMS11_191212.s
        Comment:
       Operator: ko
      Data Path: D:\KELSEY\191212\
    Method Path: D:\MKERR\METHODS\

  Line Type        Vial  DataFile  Method    Sample Name
  ----------------------------------------------------------------------
    1) BFB           99  BFB Direct Inject
        Datafile         GCMS11_191212_01
        Method           BFB_8260B
    2) Blank         99  IB1
        Datafile         GCMS11_191212_02
        Method           GCMS11_190612_ACQ
    3) Blank         99  IB2
        Datafile         GCMS11_191212_03
        Method           GCMS11_190612_ACQ

  Sequence completed Thu Dec 12 11:26:55 2019

    D:\KELSEY\191212\2019 Dec 12 1027 Quality Log.LOG
    D:\KELSEY\191212\2019 Dec 12 1027 Sequence Log .LOG
```

2019 Dec 12 1221 Sequence Log

Starting sequence Thu Dec 12 12:21:38 2019

Instrument Name: GC MS 11
Sequence File: D:\MKERR\SEQUENCES\GCMS11_191212.s
Comment:
Operator: ko
Data Path: D:\KELSEY\191212\
Method Path: D:\MKERR\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
4)	Calibration	1	Cal Blank		
	Datafile		GCMS11_191212_04		
	Method		GCMS11_190612_ACQ		
5)	Calibration	2	ICAL 1		
	Datafile		GCMS11_191212_05		
	Method		GCMS11_190612_ACQ		
6)	Calibration	3	ICAL 2		
	Datafile		GCMS11_191212_06		
	Method		GCMS11_190612_ACQ		
7)	Calibration	4	ICAL 3		
	Datafile		GCMS11_191212_07		
	Method		GCMS11_190612_ACQ		
8)	Calibration	5	ICAL 4		
	Datafile		GCMS11_191212_08		
	Method		GCMS11_190612_ACQ		
9)	Calibration	6	ICAL 5		
	Datafile		GCMS11_191212_09		
	Method		GCMS11_190612_ACQ		
10)	Calibration	7	ICAL 6		
	Datafile		GCMS11_191212_10		
	Method		GCMS11_190612_ACQ		
11)	Blank	99	IB3		
	Datafile		GCMS11_191212_11		
	Method		GCMS11_190612_ACQ		
12)	Calibration	8	ICV		
	Datafile		GCMS11_191212_12		
	Method		GCMS11_190612_ACQ		

Sequence completed Thu Dec 12 16:43:15 2019

D:\KELSEY\191212\2019 Dec 12 1221 Quality Log.LOG
D:\KELSEY\191212\2019 Dec 12 1221 Sequence Log .LOG

Method 8260 - BFB Tune Check

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_01.D
Acq On : 12 Dec 2019 10:28 am
Operator : ko
Sample : BFB Direct Inject
Misc : LIMS 18G1106
ALS Vial : 99 Sample Multiplier: 1

Integration File: rteint.p

Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Title :
Last Update : Thu Dec 12 17:06:27 2019

AutoFind: Scans 806, 807, 808; Background Corrected with Scan 793

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	178773	PASS
75	95	30	60	47.3	477653	PASS
95	95	100	100	100.0	1009293	PASS
96	95	5	9	6.7	67429	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	91.6	924395	PASS
175	174	5	9	7.5	69197	PASS
176	174	95	101	96.9	895495	PASS
177	176	5	9	6.5	57861	PASS

GCMS11_1912..._FULL LIST.M Thu Dec 12 17:08:02 2019

Response Factor Report GC MS 11

Method Path : D:\Kelsey\
Method File : GCMS11_191212_8260_FULL LIST.M
Title :
Last Update : Fri Dec 13 10:29:00 2019
Response Via : Initial Calibration

Calibration Files
1 =GCMS11_191212_05.D 2 =GCMS11_191212_06.D 3 =GCMS11_191212_07.D 4 =GCMS11_191212_08
7 =GCMS11_191212_10.D

		Compound	1	2	3	4	5	7	Avg	%RSD
1)	I	FLUOROBENZENE	----------ISTD----------							
2)	TM	Dichlorodifluo...	0.105	0.278	0.271	0.256	0.229	0.225	0.227	28.08
3)	TM	Chloromethane	0.447	0.276	0.243	0.224	0.206	0.202	0.266	34.86
4)	M	Vinyl chloride	0.348	0.354	0.316	0.288	0.265	0.256	0.304	13.62
5)	M	Bromomethane	0.263	0.201	0.234	0.229	0.213	0.229	0.228	9.18
6)	M	Chloroethane	0.313	0.250	0.220	0.205	0.193	0.189	0.228	20.65
7)	M	Trichlorofluor...	0.159	0.409	0.399	0.363	0.356	0.335	0.337	27.15
8)	M	Acrolein							0.000	-1.00
9)	M	1,1-Dichloroet...	0.137	0.246	0.269	0.252	0.272	0.258	0.239	21.32
10)	M	Acetone							0.000	-1.00
11)	M	Carbon disulfide				0.001			0.001	0.00
12)	M	Methylene chlo...	0.331	0.334	0.326	0.295	0.306	0.293	0.314	5.96
13)	M	Acrylonitrile							0.000	-1.00
14)	M	trans-1,2-Dich...	0.217	0.272	0.294	0.278	0.311	0.289	0.277	11.64
15)	M	Methyl tert-bu...							0.000	-1.00
16)	M	1,1-Dichloroet...	0.405	0.476	0.532	0.480	0.517	0.489	0.483	9.10
17)	M	2,2-Dichloropr...	0.279	0.425	0.433	0.401	0.414	0.389	0.390	14.53
18)	M	cis-1,2-Dichlo...	0.299	0.299	0.333	0.315	0.329	0.318	0.316	4.56
19)	M	2-Butanone							0.000	-1.00
20)	M	Bromochloromet...	0.155	0.156	0.191	0.170	0.182	0.175	0.172	8.26
21)	M	Chloroform	0.411	0.476	0.518	0.485	0.507	0.493	0.482	7.84
22)	S	DIBROMOFLUOROM...	0.264	0.274	0.246	0.264	0.259	0.269	0.263	3.57
23)	M	1,1,1-Trichlor...	0.209	0.410	0.455	0.435	0.455	0.435	0.400	23.75
24)	M	Carbon tetrach...	0.180	0.354	0.401	0.382	0.412	0.393	0.354	24.72
25)	M	1,1-Dichloropr...	0.166	0.334	0.354	0.346	0.365	0.361	0.321	23.89
26)	S	1,2-DICHLOROET...	0.310	0.322	0.310	0.320	0.308	0.308	0.313	1.98
27)	M	Benzene	0.889	1.140	1.217	1.189	1.250	1.208	1.149	11.52
28)	M	1,2-Dichloroet...	0.399	0.397	0.422	0.396	0.422	0.407	0.407	3.01
29)	M	Trichloroethene	0.212	0.276	0.296	0.275	0.300	0.283	0.274	11.68
30)	M	1,2-Dichloropr...	0.257	0.259	0.288	0.260	0.282	0.267	0.269	4.80
31)	M	Dibromomethane	0.212	0.215	0.231	0.211	0.226	0.217	0.219	3.77
32)	M	1,4-Dioxane							0.000	-1.00
33)	M	Bromodichlorom...	0.327	0.372	0.397	0.377	0.403	0.399	0.379	7.51
34)	M	2-Chloroethylv...							0.000	-1.00
35)	M	cis-1,3-Dichlo...	0.376	0.393	0.422	0.423	0.455	0.453	0.420	7.48
36)	M	4-Methyl-2-pen...							0.000	-1.00
37)	S	TOLUENE-D8	0.953	1.015	0.972	0.973	0.989	0.998	0.983	2.25
38)	M	Toluene	0.483	0.619	0.689	0.642	0.700	0.682	0.636	12.75
39)	I	CHLOROBENZENE-D5	----------ISTD----------							
40)	M	trans-1,3-Dich...	0.987	1.006	1.214	1.063	1.139	1.132	1.090	7.99
41)	M	1,1,2-Trichlor...	0.581	0.635	0.718	0.594	0.628	0.604	0.627	7.87
42)	M	Tetrachloroethene	0.286	0.594	0.719	0.628	0.649	0.620	0.583	25.97
43)	M	1,3-Dichloropr...	1.092	1.137	1.390	1.164	1.266	1.236	1.214	8.83
44)	M	2-Hexanone							0.000	-1.00
45)	M	Dibromochlorom...	0.854	0.859	1.029	0.894	0.985	0.963	0.931	7.75
46)	M	1,2-Dibromoeth...	0.808	0.754	0.862	0.765	0.804	0.776	0.795	4.92
47)	M	Chlorobenzene	1.752	1.923	2.422	2.028	2.176	2.155	2.076	11.12
48)	M	1,1,1,2-Tetrac...	0.766	0.779	0.966	0.773	0.845	0.833	0.827	9.16
49)	M	Ethylbenzene	0.870	1.018	1.264	1.057	1.149	1.092	1.075	12.25
50)	M	m+p-Xylene	1.024	1.222	1.568	1.312	1.425	1.410	1.327	14.19
51)	M	o-Xylene	1.086	1.145	1.541	1.243	1.388	1.359	1.294	13.03
52)	M	Styrene	0.987	1.107	1.348	1.166	1.308	1.301	1.203	11.70
53)	M	Bromoform	0.625	0.570	0.677	0.634	0.687	0.683	0.646	7.06
54)	M	Isopropylbenzene	2.105	3.162	4.063	3.351	3.668	3.579	3.321	20.16

Highlighted analytes were not calibrated for -KO 12.30.19

55)	S	4-BROMOFLUOROB...	0.890	0.912	0.970	0.879	0.868	0.920	0.907	4.02
56)	M	Bromobenzene	0.801	0.911	1.076	0.906	0.968	0.965	0.938	9.69
57)	M	1,2,3-Trichlor...	0.793	0.768	0.940	0.800	0.820	0.808	0.822	7.36
58)	M	n-Propylbenzene	2.221	3.513	4.610	3.845	4.099	4.020	3.718	21.95
59)	M	2-Chlorotoluene	1.698	2.100	2.608	2.238	2.384	2.356	2.231	13.91
60)	M	1,3,5-Trimethy...	1.879	2.443	3.118	2.705	2.956	2.959	2.677	17.07
61)	M	4-Chlorotoluene	2.041	2.415	3.008	2.574	2.730	2.787	2.592	12.97
62)	I	1,4-DICHLOROBENZEN...	----------ISTD----------							
63)	M	1,1,2,2-Tetrac...	0.903	0.905	1.092	0.906	0.988	0.830	0.937	9.71
64)	M	tert-Butylbenzene	1.476	2.153	2.622	2.310	2.557	2.120	2.206	18.69
65)	M	1,2,4-Trimethy...	2.033	2.412	3.100	2.643	3.008	2.545	2.623	15.00
66)	M	sec-Butylbenzene	1.850	2.967	3.734	3.366	3.701	3.106	3.121	22.26
67)	M	1,3-Dichlorobe...	1.338	1.446	1.808	1.498	1.701	1.473	1.544	11.34
68)	M	p-Isopropyltol...	1.828	2.522	3.307	2.884	3.245	2.730	2.753	19.74
69)	M	1,4-Dichlorobe...	1.415	1.457	1.800	1.590	1.712	1.455	1.572	10.01
70)	M	1,2-Dichlorobe...	1.576	1.587	1.931	1.611	1.779	1.533	1.669	9.21
71)	M	n-Butylbenzene	1.456	2.304	2.850	2.550	2.878	2.443	2.414	21.57
72)	M	1,2-Dibromo-3-...	0.122	0.167	0.215	0.164	0.186	0.163	0.169	17.98
73)	M	1,2,4-Trichlor...	1.034	1.034	1.235	1.121	1.270	1.061	1.126	9.21
74)	M	Hexachlorobuta...	0.298	0.481	0.586	0.561	0.579	0.489	0.499	21.73
75)	M	Naphthalene	2.447	2.623	3.243	2.870	3.335	2.781	2.883	12.04
76)	M	1,2,3-Trichlor...	0.757	0.989	1.343	1.057	1.203	1.021	1.062	18.81

(#) = Out of Range

GCMS11_1912..._FULL LIST.M Fri Dec 13 10:29:22 2019

Calibration Report GC MS 11

Method Path : D:\Kelsey\
Method File : GCMS11_191212_8260_FULL LIST.M
Title :
Last Update : Fri Dec 13 10:29:00 2019
Response Via : Initial Calibration

Calibration Files
1 =GCMS11_191212_05 2 =GCMS11_191212_06 3 =GCMS11_191212_07 4 =GCMS11_191212_08
5 =GCMS11_191212_09 7 =GCMS11_191212_10

		Compound	Fit	Constant	Linear	Quad	RSD/Cf
1)	I	FLUOROBENZENE		----------ISTD----------			
2)	TM	Dichlorodifluoro...	LinF	-----	0.2325	-----	0.9908
3)	TM	Chloromethane	LinF	-----	0.2124	-----	0.9995
4)	M	Vinyl chloride	LinF	-----	0.2692	-----	0.9969
5)	M	Bromomethane	LinF	-----	0.2247	-----	0.9980
6)	M	Chloroethane	LinF	-----	0.1968	-----	0.9997
7)	M	Trichlorofluorom...	LinF	-----	0.3472	-----	0.9927
8)	M	Acrolein	Avg	-----	-----	-----	0.0000
9)	M	1,1-Dichloroethene	LinF	-----	0.2599	-----	0.9982
10)	M	Acetone	Avg	-----	-----	-----	0.0000
11)	M	Carbon disulfide	LinF	-----	0.0009	-----	1.0000
12)	M	Methylene chloride	Avg	-----	0.3142	-----	0.0596
13)	M	Acrylonitrile	Avg	-----	-----	-----	0.0000
14)	M	trans-1,2-Dichlo...	LinF	-----	0.2926	-----	0.9981
15)	M	Methyl tert-buty...	Avg	-----	-----	-----	0.0000
16)	M	1,1-Dichloroethane	Avg	-----	0.4831	-----	0.0910
17)	M	2,2-Dichloropropane	LinF	-----	0.3993	-----	0.9975
18)	M	cis-1,2-Dichloro...	Avg	-----	0.3157	-----	0.0456
19)	M	2-Butanone	Avg	-----	-----	-----	0.0000
20)	M	Bromochloromethane	Avg	-----	0.1716	-----	0.0826
21)	M	Chloroform	Avg	-----	0.4816	-----	0.0784
22)	S	DIBROMOFLUOROMET...	Avg	-----	0.2626	-----	0.0357
23)	M	1,1,1-Trichloroe...	LinF	-----	0.4381	-----	0.9984
24)	M	Carbon tetrachlo...	LinF	-----	0.3936	-----	0.9985
25)	M	1,1-Dichloropropene	LinF	-----	0.3572	-----	0.9993
26)	S	1,2-DICHLOROETHA...	Avg	-----	0.3130	-----	0.0198
27)	M	Benzene	LinF	-----	1.2120	-----	0.9995
28)	M	1,2-Dichloroethane	Avg	-----	0.4073	-----	0.0301
29)	M	Trichloroethene	LinF	-----	0.2860	-----	0.9985
30)	M	1,2-Dichloropropane	Avg	-----	0.2687	-----	0.0480
31)	M	Dibromomethane	Avg	-----	0.2188	-----	0.0377
32)	M	1,4-Dioxane	Lin	-----	-----	-----	0.0000
33)	M	Bromodichloromet...	Avg	-----	0.3793	-----	0.0751
34)	M	2-Chloroethylvin...	Avg	-----	-----	-----	0.0000
35)	M	cis-1,3-Dichloro...	Avg	-----	0.4203	-----	0.0748
36)	M	4-Methyl-2-penta...	Lin	-----	-----	-----	0.0000
37)	S	TOLUENE-D8	Avg	-----	0.9833	-----	0.0225
38)	M	Toluene	LinF	-----	0.6780	-----	0.9992
39)	I	CHLOROBENZENE-D5		----------ISTD----------			
40)	M	trans-1,3-Dichlo...	Avg	-----	1.0901	-----	0.0799
41)	M	1,1,2-Trichloroe...	Avg	-----	0.6269	-----	0.0787
42)	M	Tetrachloroethene	LinF	-----	0.6294	-----	0.9962
43)	M	1,3-Dichloropropane	Avg	-----	1.2143	-----	0.0883
44)	M	2-Hexanone	Avg	-----	-----	-----	0.0000
45)	M	Dibromochloromet...	Avg	-----	0.9306	-----	0.0775
46)	M	1,2-Dibromoethan...	Avg	-----	0.7948	-----	0.0492
47)	M	Chlorobenzene	LinF	-----	2.1476	-----	0.9980
48)	M	1,1,1,2-Tetrachl...	Avg	-----	0.8271	-----	0.0916
49)	M	Ethylbenzene	LinF	-----	1.1068	-----	0.9973
50)	M	m+p-Xylene	LinF	-----	1.4003	-----	0.9978
51)	M	o-Xylene	LinF	-----	1.3528	-----	0.9968
52)	M	Styrene	LinF	-----	1.2795	-----	0.9982
53)	M	Bromoform	LinF	-----	0.6737	-----	0.9989
54)	M	Isopropylbenzene	LinF	-----	3.5714	-----	0.9970

55)	S	4-BROMOFLUOROBEN...	Avg	-----	0.9066	-----	0.0402
56)	M	Bromobenzene	Avg	-----	0.9377	-----	0.0969
57)	M	1,2,3-Trichlorop...	Avg	-----	0.8216	-----	0.0736
58)	M	n-Propylbenzene	LinF	-----	4.0166	-----	0.9970
59)	M	2-Chlorotoluene	LinF	-----	2.3472	-----	0.9983
60)	M	1,3,5-Trimethylb...	LinF	-----	2.9089	-----	0.9983
61)	M	4-Chlorotoluene	LinF	-----	2.7383	-----	0.9983
62)	I	1,4-DICHLOROBENZ...	----------ISTD----------				
63)	M	1,1,2,2-Tetrachl...	LinF	-----	0.8973	-----	0.9902
64)	M	tert-Butylbenzene	Avg	-----	2.2064	-----	0.1869
65)	M	1,2,4-Trimethylb...	LinF	-----	2.6983	-----	0.9913
66)	M	sec-Butylbenzene	LinF	-----	3.3111	-----	0.9903
67)	M	1,3-Dichlorobenzene	Avg	-----	1.5438	-----	0.1134
68)	M	p-Isopropyltoluene	LinF	-----	2.8990	-----	0.9906
69)	M	1,4-Dichlorobenzene	Avg	-----	1.5715	-----	0.1001
70)	M	1,2-Dichlorobenzene	Avg	-----	1.6692	-----	0.0921
71)	M	n-Butylbenzene	LinF	-----	2.5777	-----	0.9918
72)	M	1,2-Dibromo-3-ch...	LinF	-----	0.1714	-----	0.9905
73)	M	1,2,4-Trichlorob...	Avg	-----	1.1258	-----	0.0921
74)	M	Hexachlorobutadiene	LinF	-----	0.5246	-----	0.9900
75)	M	Naphthalene	Avg	-----	2.8831	-----	0.1204
76)	M	1,2,3-Trichlorob...	QuadF	-----	1.1950	-0.0158	0.9939

GCMS11_1912..._FULL LIST.M Fri Dec 13 10:30:23 2019

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_05.D
Acq On : 12 Dec 2019 1:06 pm
Operator : ko
Sample : ICAL 1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 13:06:05 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.257	96	67995	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.441	82	25515	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.762	152	25981	50.00	ng	#	0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.454	113	17931	50.21	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.846	65	21102	49.58	ng		0.00
37) TOLUENE-D8	7.984	98	64711	48.39	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.617	95	22640	48.94	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.123	85	1423	4.50	ng		87
3) Chloromethane	1.261	50	6085	21.07	ng		96
4) Vinyl chloride	1.344	62	4728	12.91	ng		95
5) Bromomethane	1.605	96	3706	12.13	ng		90
6) Chloroethane	1.695	64	4263	15.93	ng		90
7) Trichlorofluoromethane	1.923	101	2160	4.57	ng		89
9) 1,1-Dichloroethene	2.415	96	1864	5.27	ng		85
12) Methylene chloride	2.965	84	4508	10.55	ng		93
14) trans-1,2-Dichloroethene	3.312	96	2935	7.38	ng		88
16) 1,1-Dichloroethane	3.923	63	5512	8.39	ng		80
17) 2,2-Dichloropropane	4.772	77	3833	7.06	ng		86
18) cis-1,2-Dichloroethene	4.794	96	4071	9.48	ng		94
20) Bromochloromethane	5.106	128	2112	9.05	ng		95
21) Chloroform	5.254	83	5589	8.53	ng		98
23) 1,1,1-Trichloroethane	5.444	97	2888	4.85	ng		92
24) Carbon tetrachloride	5.637	117	2447m	4.57	ng		
25) 1,1-Dichloropropene	5.659	75	2260	4.65	ng		96
27) Benzene	5.900	78	12119	7.35	ng		90
28) 1,2-Dichloroethane	5.942	62	5422	9.79	ng		94
29) Trichloroethene	6.675	95	2882	7.41	ng		91
30) 1,2-Dichloropropane	6.913	63	3491	9.55	ng	#	92
31) Dibromomethane	7.035	93	2880	9.68	ng		92
33) Bromodichloromethane	7.238	83	4448	8.62	ng		89
35) cis-1,3-Dichloropropene	7.717	75	5118	8.95	ng		91
38) Toluene	8.052	92	6660	7.22	ng		98
40) trans-1,3-Dichloropropene	8.306	75	5020	9.02	ng		92
41) 1,1,2-Trichloroethane	8.479	83	2955	9.24	ng		95
42) Tetrachloroethene	8.608	164	1848	5.75	ng		89
43) 1,3-Dichloropropane	8.643	76	5558	8.97	ng		97
45) Dibromochloromethane	8.865	129	4346	9.15	ng	#	94
46) 1,2-Dibromoethane (EDB)	8.961	107	4113	10.14	ng		90
47) Chlorobenzene	9.469	112	8914	8.13	ng		95
48) 1,1,1,2-Tetrachloroethane	9.556	131	3785	8.97	ng		98
49) Ethylbenzene	9.595	106	4428	7.84	ng	#	77
50) m+p-Xylene	9.714	106	10423	14.59	ng		90
51) o-Xylene	10.103	106	5525	8.00	ng		88
52) Styrene	10.119	103	5020	7.69	ng		98
53) Bromoform	10.286	173	3287	9.56	ng	#	88
54) Isopropylbenzene	10.476	105	10711	5.88	ng		94
56) Bromobenzene	10.756	156	4314	9.02	ng		93
57) 1,2,3-Trichloropropane	10.813	75	4037	9.63	ng		86

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_05.D
Acq On : 12 Dec 2019 1:06 pm
Operator : ko
Sample : ICAL 1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 13:06:05 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

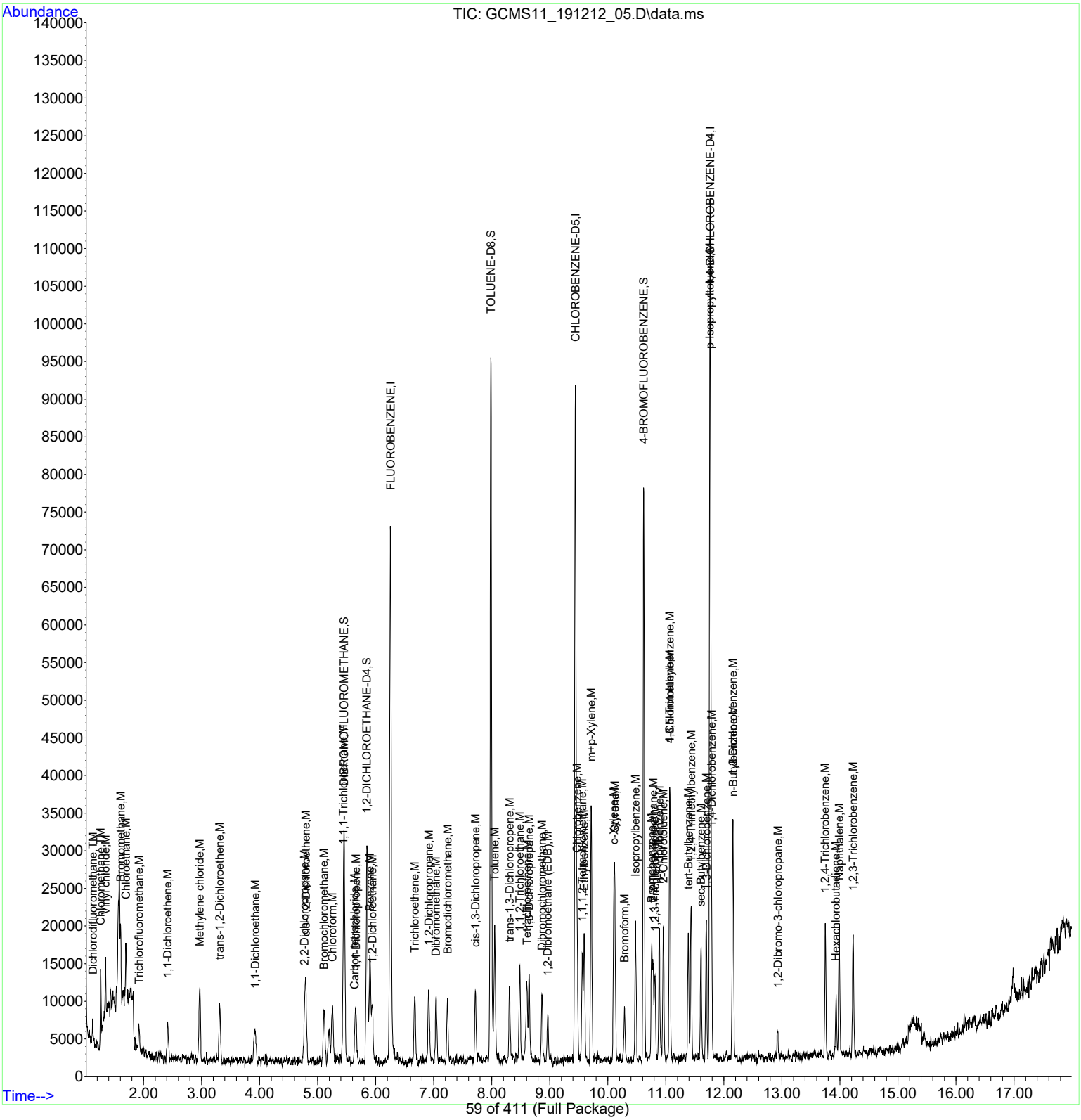
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58)	n-Propylbenzene	10.887	91	11327	5.53	ng		97
59)	2-Chlorotoluene	10.958	91	8640	7.21	ng		92
60)	1,3,5-Trimethylbenzene	11.067	105	9562	6.44	ng		95
61)	4-Chlorotoluene	11.067	91	10383	7.43	ng		96
63)	1,1,2,2-Tetrachloroethane	10.785	83	4659	9.99	ng		98
64)	tert-Butylbenzene	11.386	119	7617	6.64	ng		96
65)	1,2,4-Trimethylbenzene	11.437	105	10491	7.48	ng		91
66)	sec-Butylbenzene	11.604	105	9547	5.55	ng		96
67)	1,3-Dichlorobenzene	11.701	146	6843	8.53	ng		90
68)	p-Isopropyltoluene	11.756	119	9360	6.21	ng		98
69)	1,4-Dichlorobenzene	11.788	146	7434	9.10	ng		92
70)	1,2-Dichlorobenzene	12.154	146	8004	9.23	ng		96
71)	n-Butylbenzene	12.161	91	7488	5.59	ng		89
72)	1,2-Dibromo-3-chloropr...	12.929	155	851	9.55	ng		91
73)	1,2,4-Trichlorobenzene	13.746	180	5319	9.09	ng		96
74)	Hexachlorobutadiene	13.929	225	1537	5.64	ng	#	1
75)	Naphthalene	13.987	128	12626	8.43	ng		97
76)	1,2,3-Trichlorobenzene	14.228	180	4677	7.55	ng		90

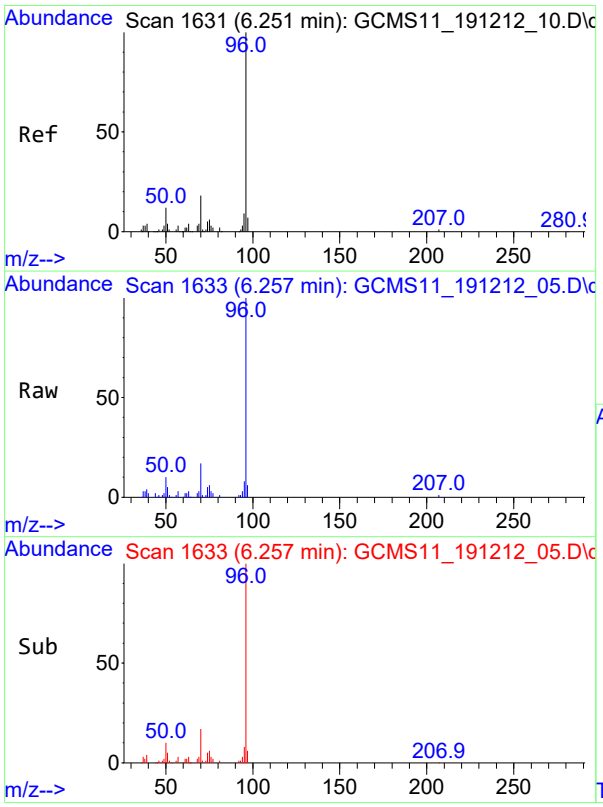
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_05.D
Acq On : 12 Dec 2019 1:06 pm
Operator : ko
Sample : ICAL 1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 13:06:05 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

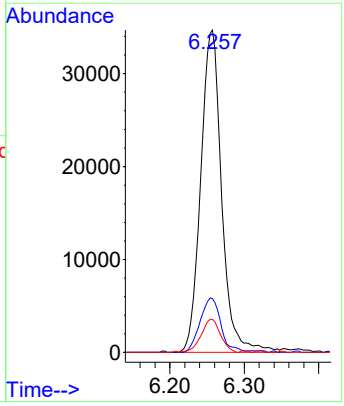


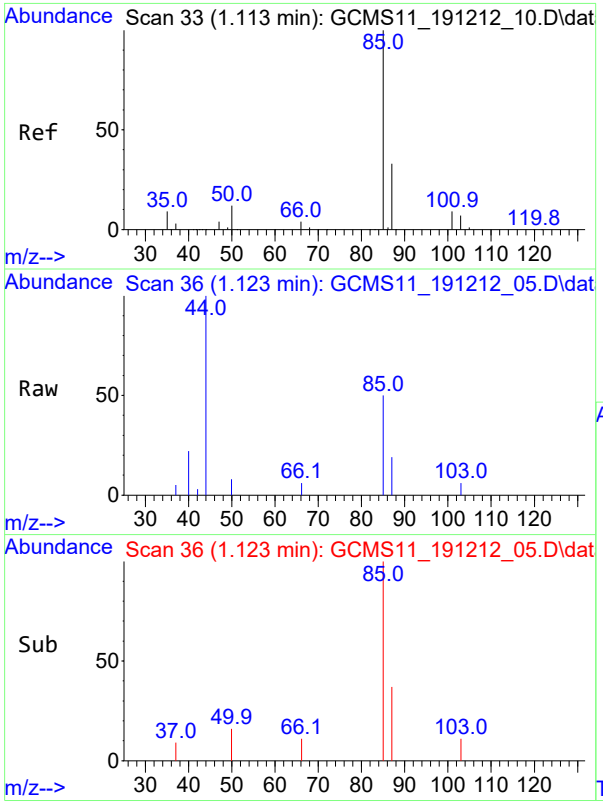


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.257 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 96 Resp: 67995

Ion	Ratio	Lower	Upper
96	100		
70	16.7	0.0	48.3
50	9.5	0.0	39.5

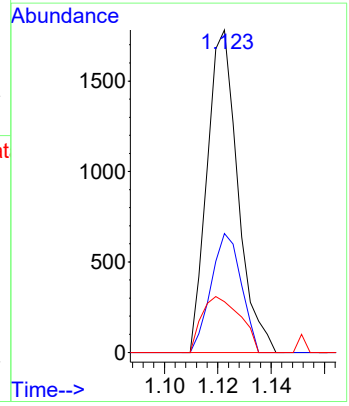


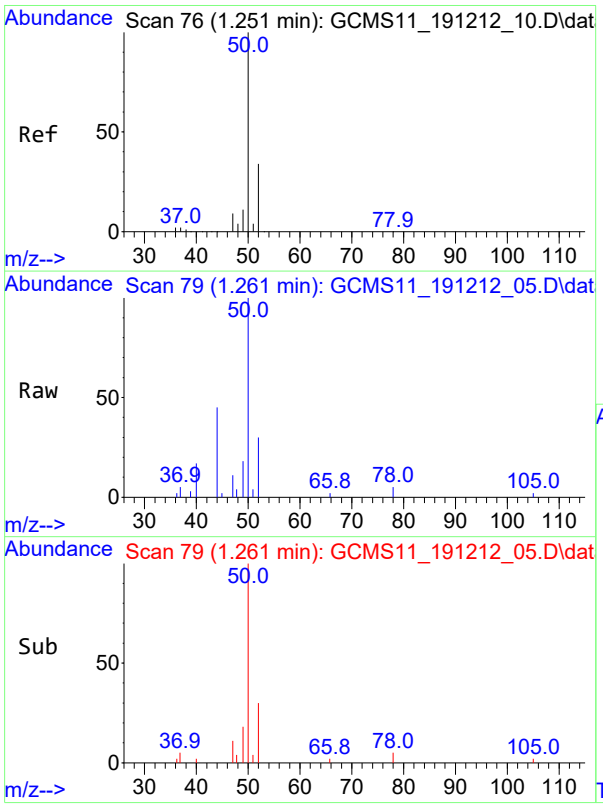


#2
Dichlorodifluoromethane
Concen: 4.50 ng
RT: 1.123 min Scan# 36
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 85 Resp: 1423

Ion	Ratio	Lower	Upper
85	100		
87	36.3	1.8	61.8
50	21.7	0.0	42.2

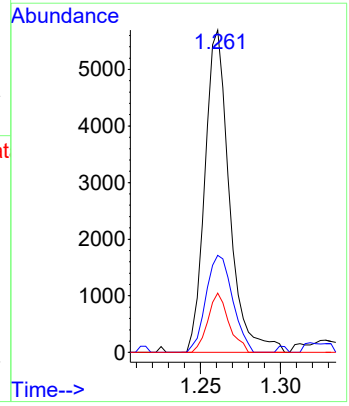


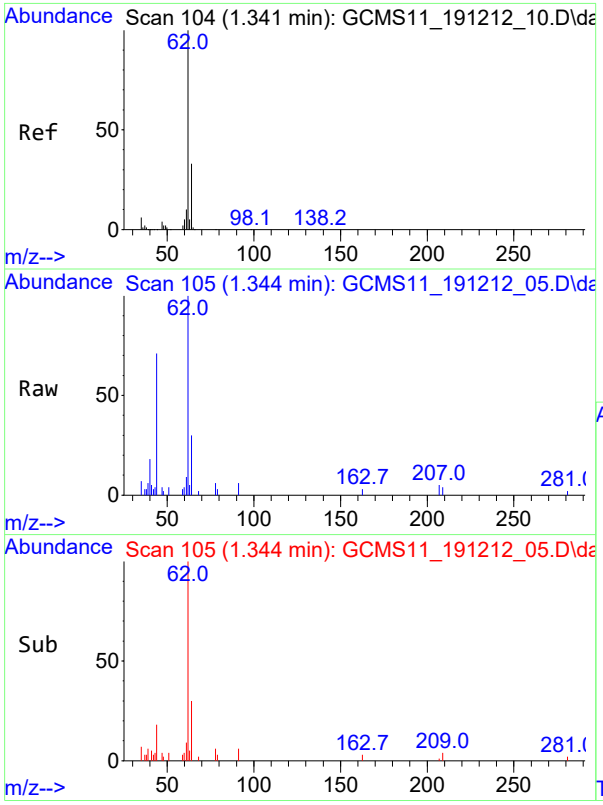


#3
Chloromethane
Concen: 21.07 ng
RT: 1.261 min Scan# 79
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 50 Resp: 6085

Ion	Ratio	Lower	Upper
50	100		
52	32.7	2.0	62.0
49	15.8	0.0	40.7

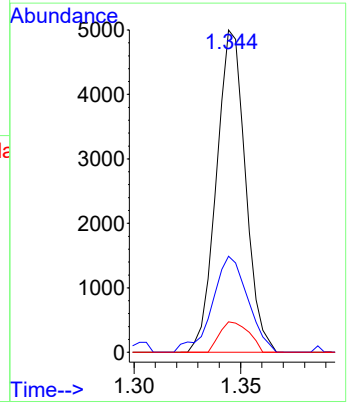


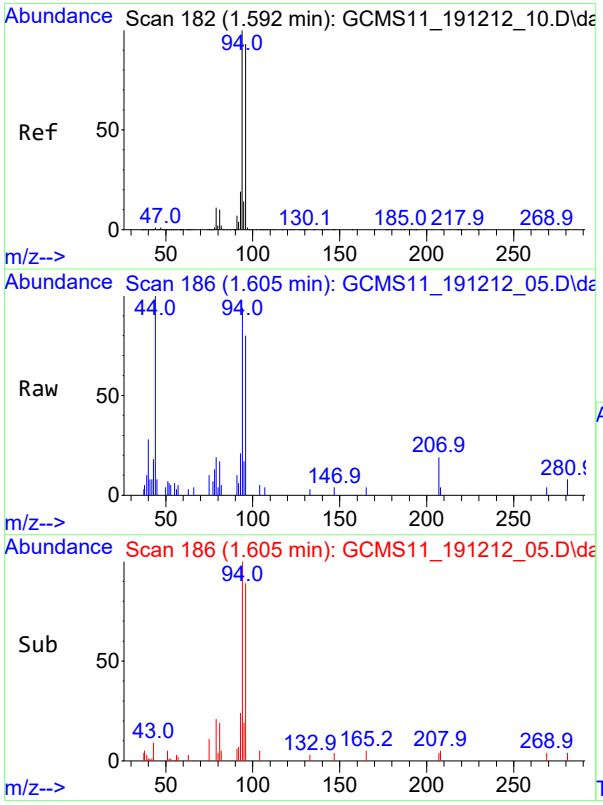


#4
Vinyl chloride
Concen: 12.91 ng
RT: 1.344 min Scan# 105
Delta R.T. -0.006 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 62 Resp: 4728

Ion	Ratio	Lower	Upper
62	100		
64	36.5	2.7	62.7
61	9.5	0.0	39.4

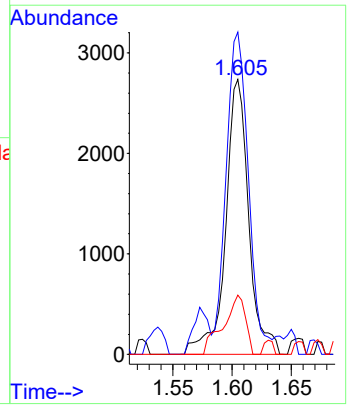


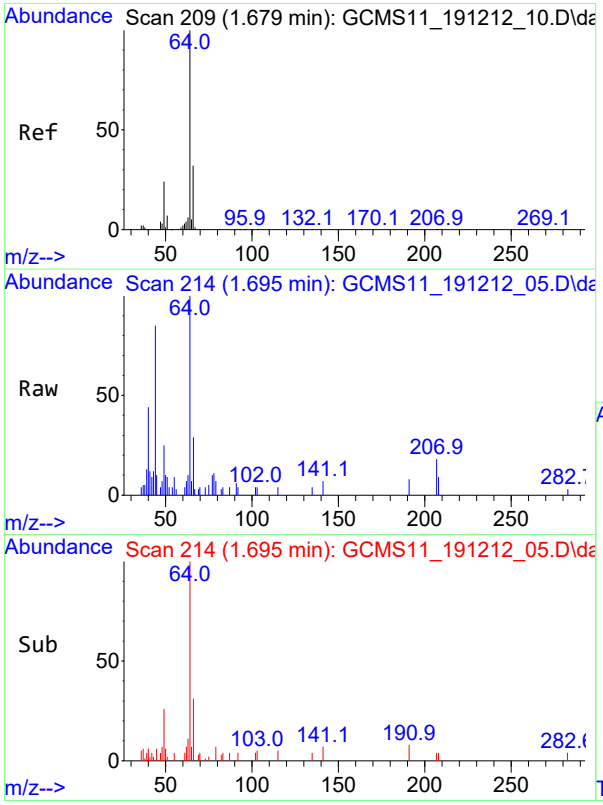


#5
Bromomethane
Concen: 12.13 ng
RT: 1.605 min Scan# 186
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 96 Resp: 3706

Ion	Ratio	Lower	Upper
96	100		
94	113.1	74.8	134.8
81	20.7	0.0	42.0

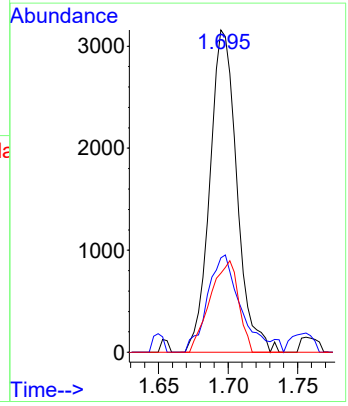


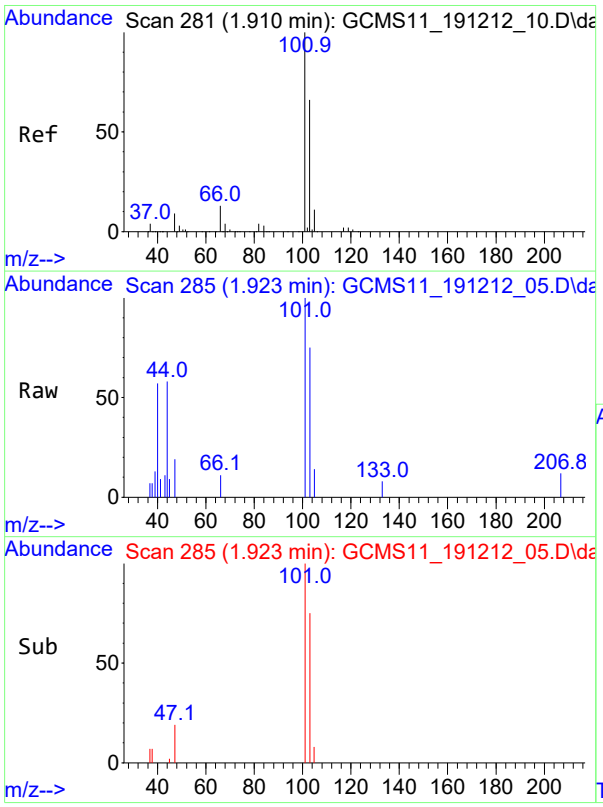


#6
Chloroethane
Concen: 15.93 ng
RT: 1.695 min Scan# 214
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 64 Resp: 4263

Ion	Ratio	Lower	Upper
64	100		
66	37.6	3.3	63.3
49	29.9	0.0	53.3

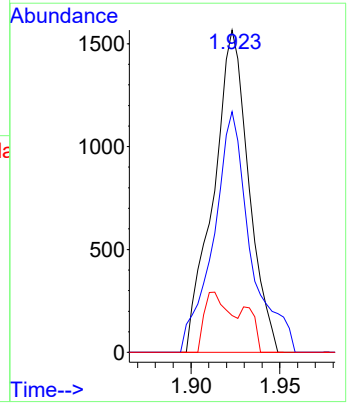


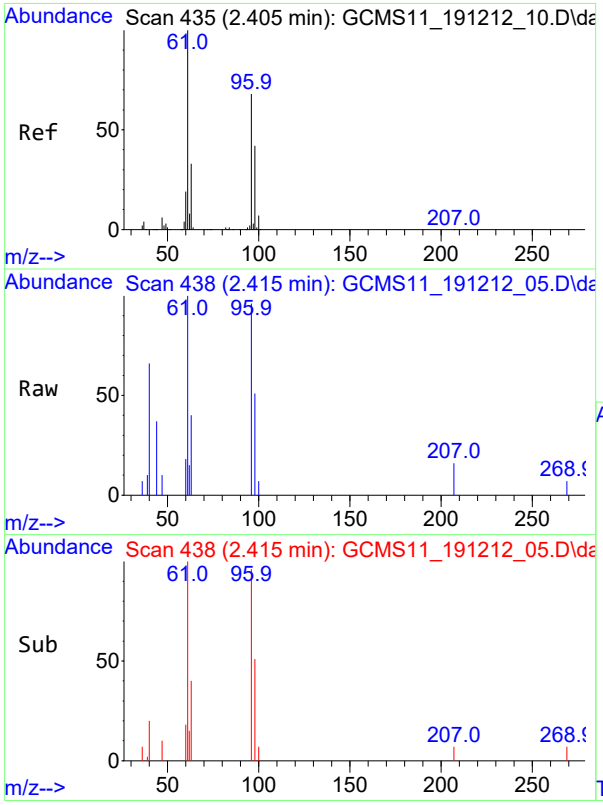


#7
Trichlorofluoromethane
Concen: 4.57 ng
RT: 1.923 min Scan# 285
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:101 Resp: 2160

Ion	Ratio	Lower	Upper
101	100		
103	78.4	38.4	98.4
66	13.8	0.0	43.0

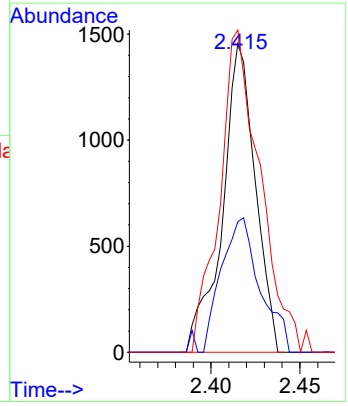


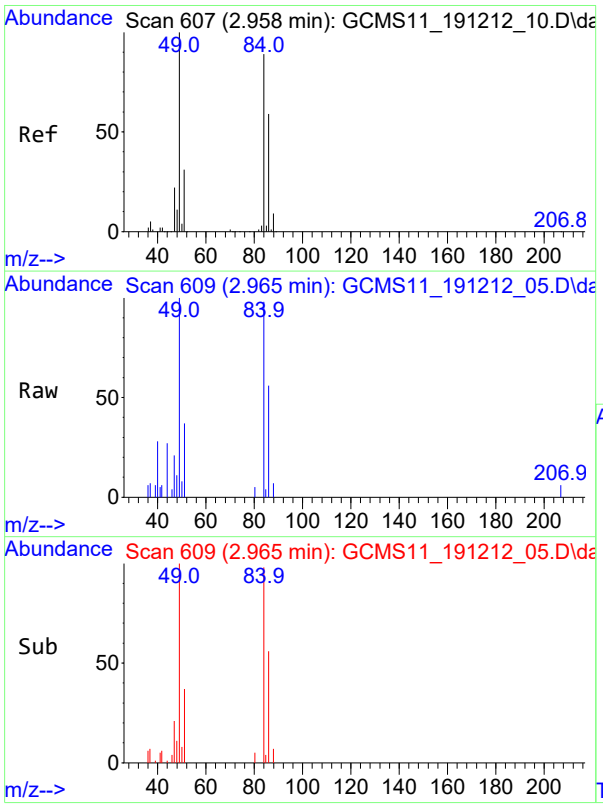


#9
1,1-Dichloroethene
Concen: 5.27 ng
RT: 2.415 min Scan# 438
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 96 Resp: 1864

Ion	Ratio	Lower	Upper
96	100		
63	51.6	20.7	80.7
61	129.3	123.9	183.9

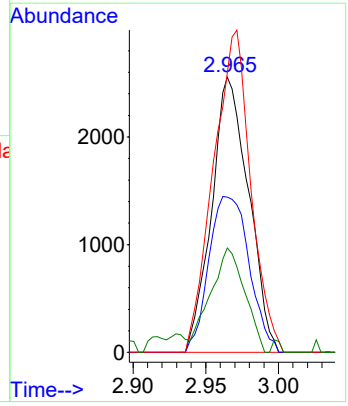


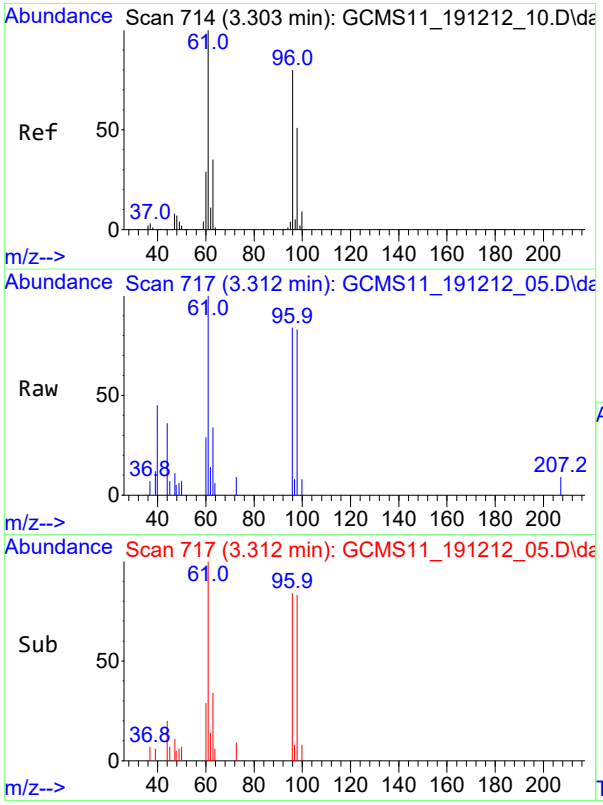


#12
Methylene chloride
Concen: 10.55 ng
RT: 2.965 min Scan# 609
Delta R.T. -0.006 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 84 Resp: 4508

Ion	Ratio	Lower	Upper
84	100		
86	61.9	35.2	95.2
49	118.2	78.3	138.3
51	35.3	4.0	64.0

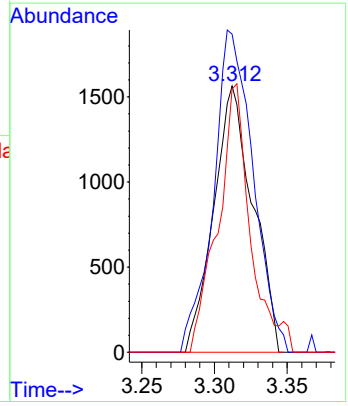


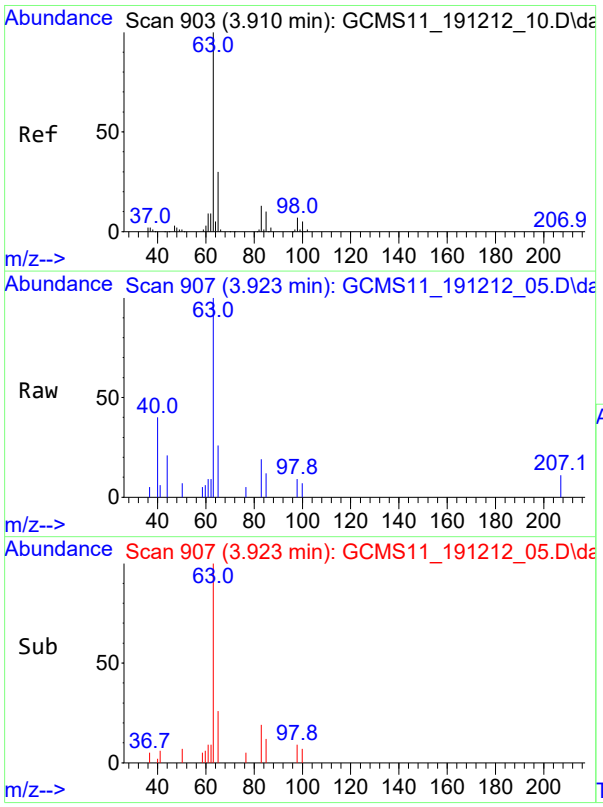


#14
trans-1,2-Dichloroethene
Concen: 7.38 ng
RT: 3.312 min Scan# 717
Delta R.T. -0.006 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 96 Resp: 2935

Ion	Ratio	Lower	Upper
96	100		
61	122.4	99.6	159.6
98	83.5	35.3	95.3

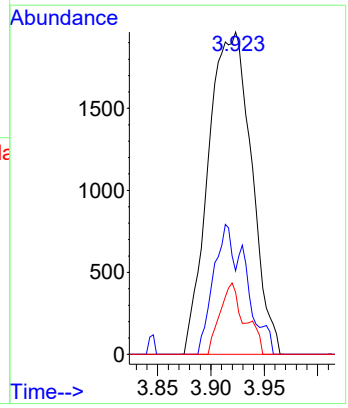


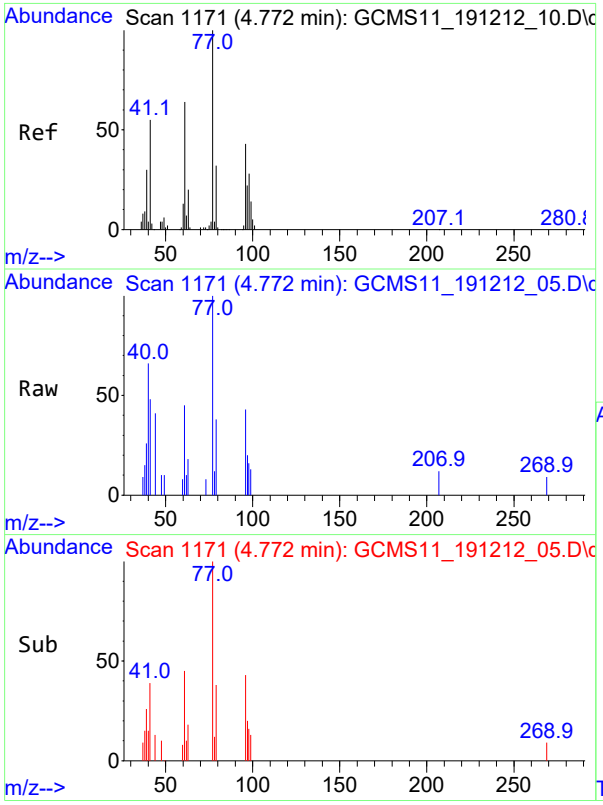


#16
1,1-Dichloroethane
Concen: 8.39 ng
RT: 3.923 min Scan# 907
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 63 Resp: 5512

Ion	Ratio	Lower	Upper
63	100		
65	19.2	2.8	62.8
83	10.4	0.0	44.3

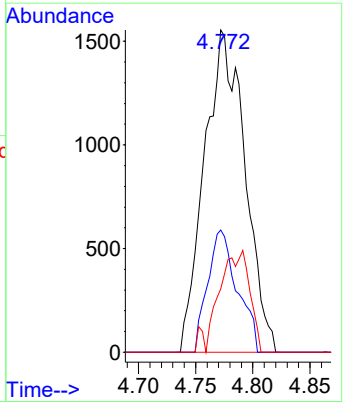


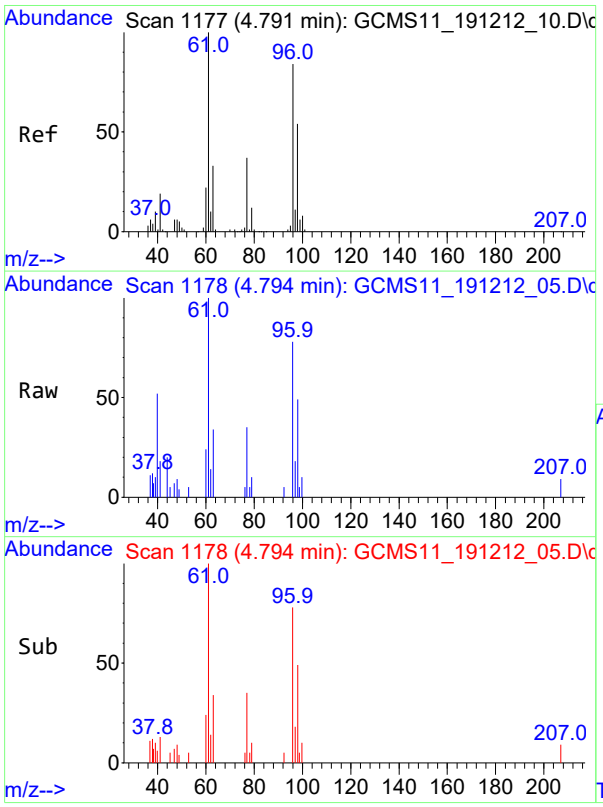


#17
2,2-Dichloropropane
Concen: 7.06 ng
RT: 4.772 min Scan# 1171
Delta R.T. -0.010 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 77 Resp: 3833

Ion	Ratio	Lower	Upper
77	100		
79	27.7	3.0	63.0
97	13.2	0.0	53.2

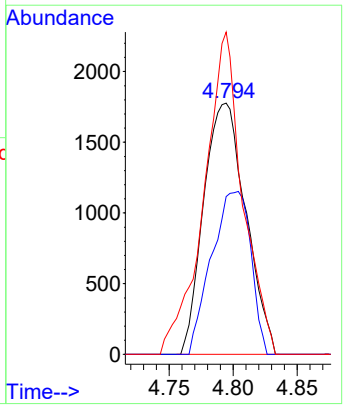


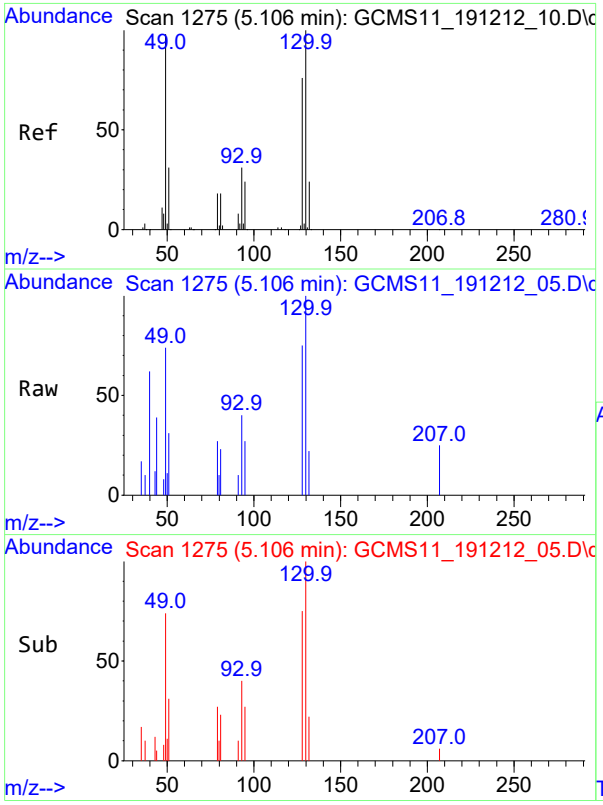


#18
cis-1,2-Dichloroethene
Concen: 9.48 ng
RT: 4.794 min Scan# 1178
Delta R.T. -0.006 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 96 Resp: 4071

Ion	Ratio	Lower	Upper
96	100		
98	60.3	30.6	90.6
61	117.3	96.6	156.6

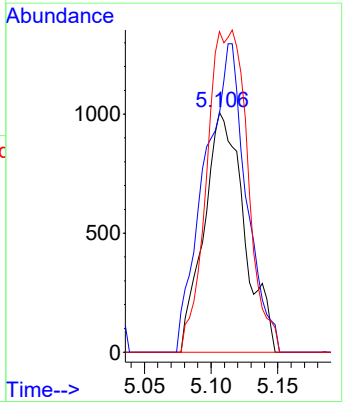


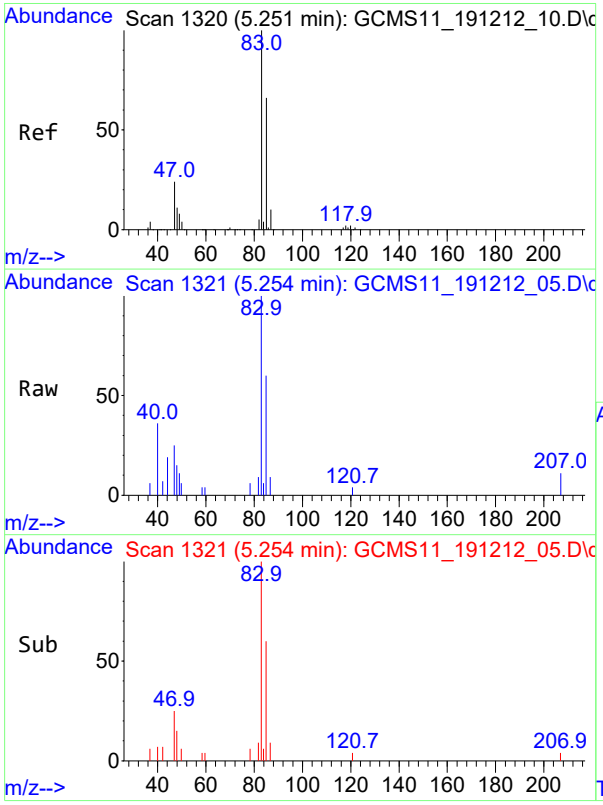


#20
Bromochloromethane
Concen: 9.05 ng
RT: 5.106 min Scan# 1275
Delta R.T. -0.010 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:128 Resp: 2112

Ion	Ratio	Lower	Upper
128	100		
49	133.0	99.5	159.5
130	137.2	99.8	159.8

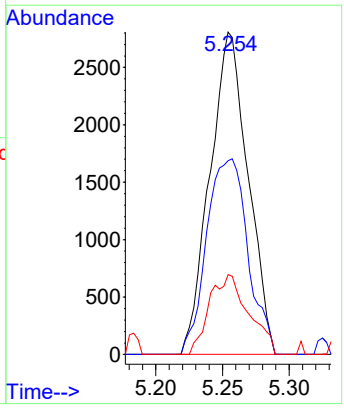


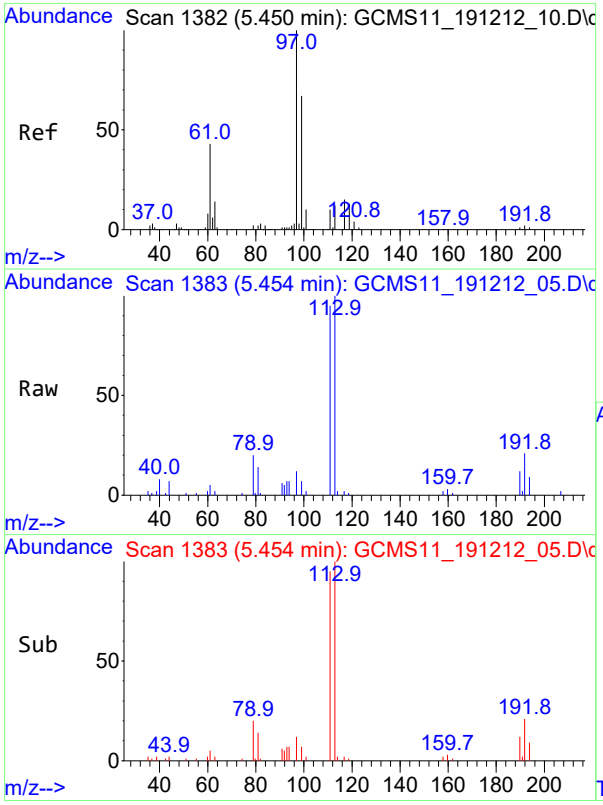


#21
Chloroform
Concen: 8.53 ng
RT: 5.254 min Scan# 1321
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 83 Resp: 5589

Ion	Ratio	Lower	Upper
83	100		
85	65.5	34.2	94.2
47	25.5	0.0	53.2

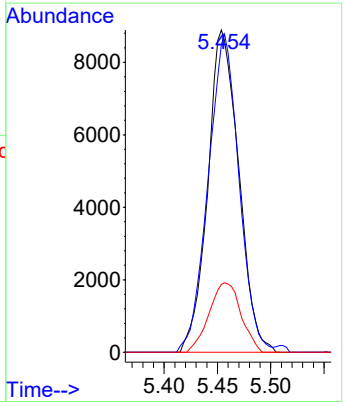


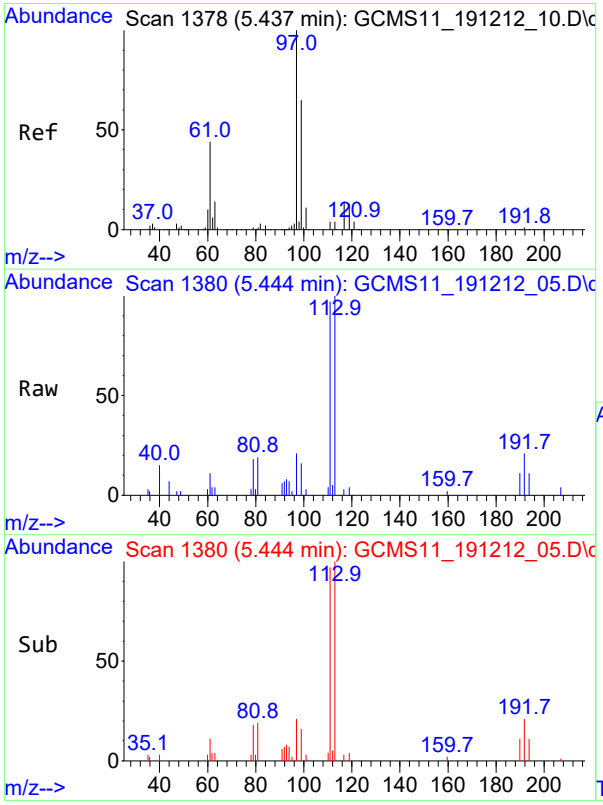


#22
DIBROMOFLUOROMETHANE
Concen: 50.21 ng
RT: 5.454 min Scan# 1383
Delta R.T. -0.006 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:113 Resp: 17931

Ion	Ratio	Lower	Upper
113	100		
111	98.3	75.2	135.2
192	22.2	0.0	52.1

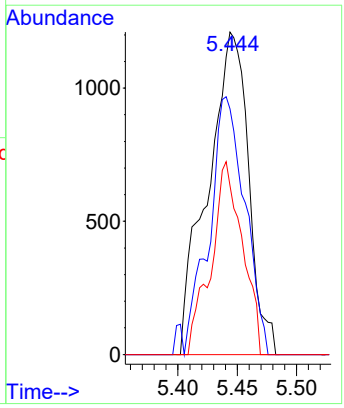


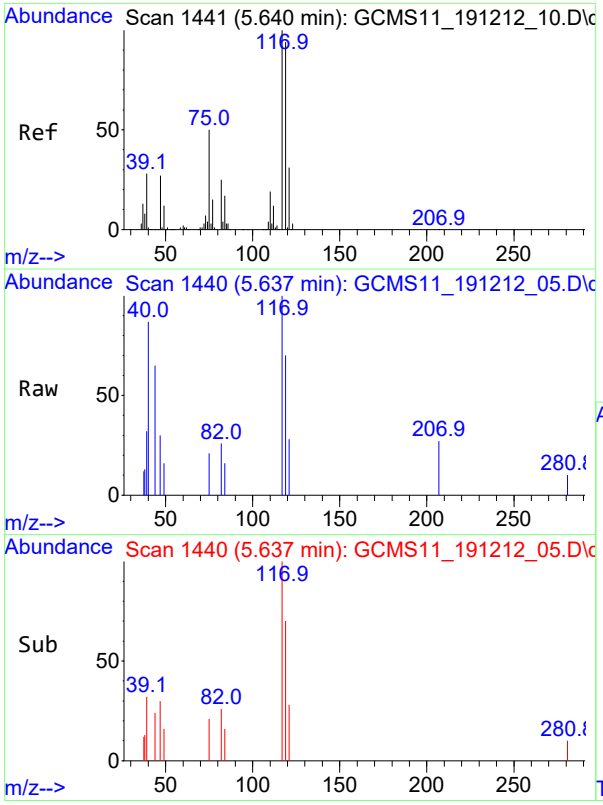


#23
1,1,1-Trichloroethane
Concen: 4.85 ng
RT: 5.444 min Scan# 1380
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 97 Resp: 2888

Ion	Ratio	Lower	Upper
97	100		
99	70.3	32.7	92.7
61	46.1	13.1	73.1

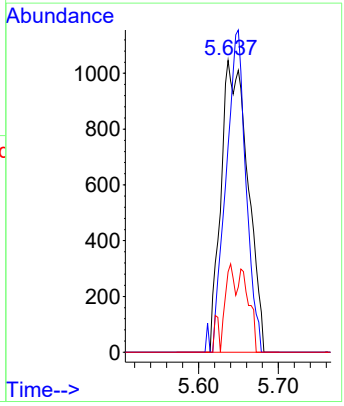


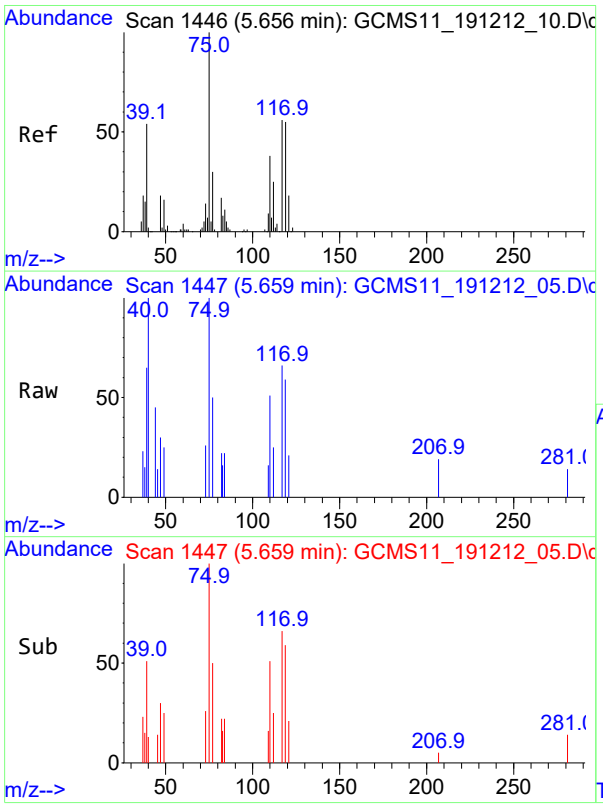


#24
Carbon tetrachloride
Concen: 4.57 ng m
RT: 5.637 min Scan# 1440
Delta R.T. -0.013 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:117 Resp: 2447

Ion	Ratio	Lower	Upper
117	100		
119	0.0	66.6	126.6#
121	11.0	0.0	59.5

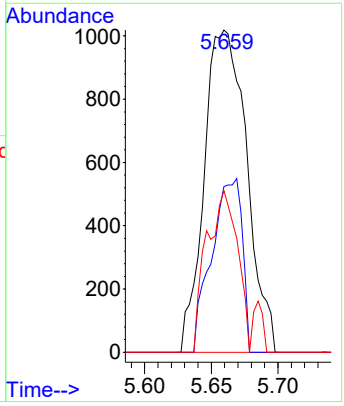


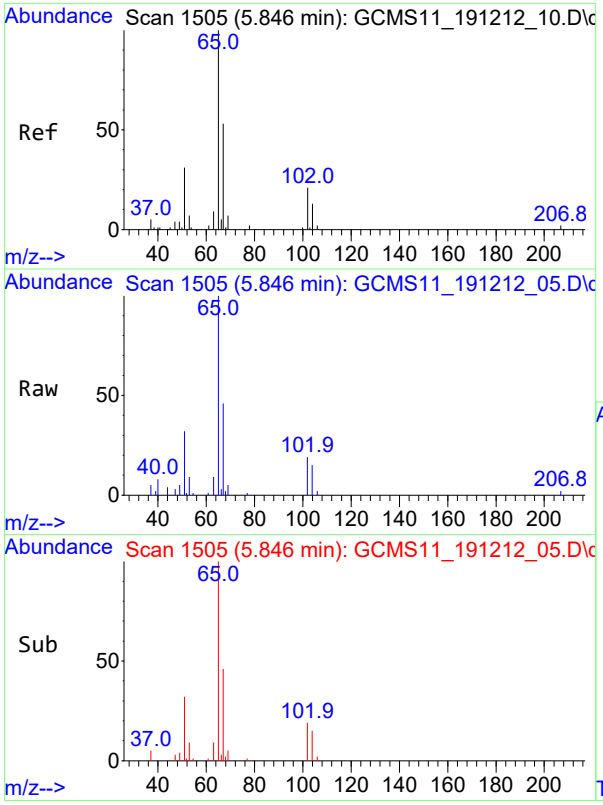


#25
1,1-Dichloropropene
Concen: 4.65 ng
RT: 5.659 min Scan# 1447
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 75 Resp: 2260

Ion	Ratio	Lower	Upper
75	100		
110	38.5	8.8	68.8
77	36.4	1.1	61.1

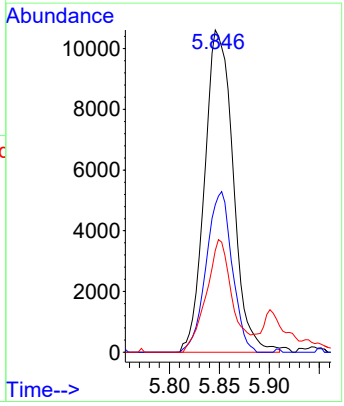


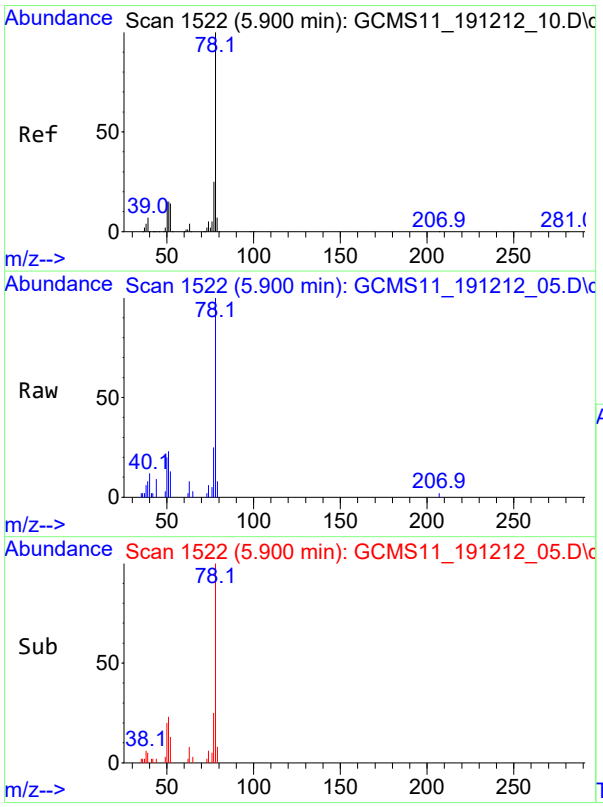


#26
1,2-DICHLOROETHANE-D4
Concen: 49.58 ng
RT: 5.846 min Scan# 1505
Delta R.T. -0.006 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 65 Resp: 21102

Ion	Ratio	Lower	Upper
65	100		
67	45.4	15.4	75.4
51	32.4	2.7	62.7

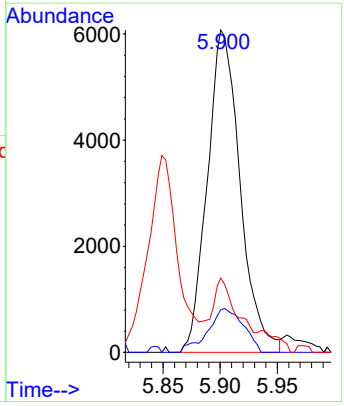


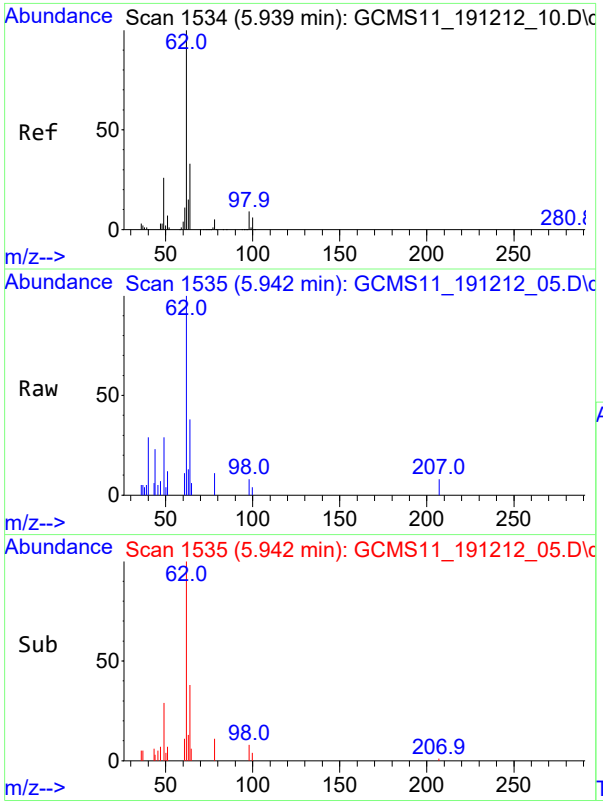


#27
Benzene
Concen: 7.35 ng
RT: 5.900 min Scan# 1522
Delta R.T. -0.006 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 78 Resp: 12119

Ion	Ratio	Lower	Upper
78	100		
52	14.7	0.0	44.0
51	11.1	0.0	48.4

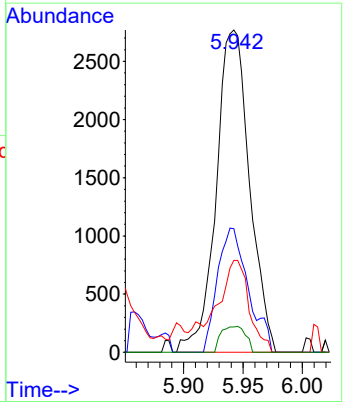


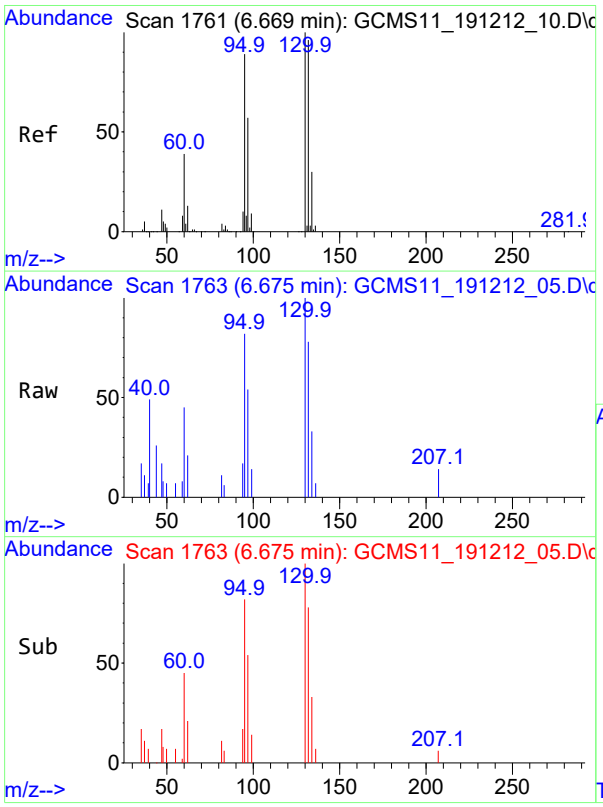


#28
1,2-Dichloroethane
Concen: 9.79 ng
RT: 5.942 min Scan# 1535
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 62 Resp: 5422

Ion	Ratio	Lower	Upper
62	100		
64	35.4	3.2	63.2
49	29.0	0.0	55.4
98	5.9	0.0	39.6

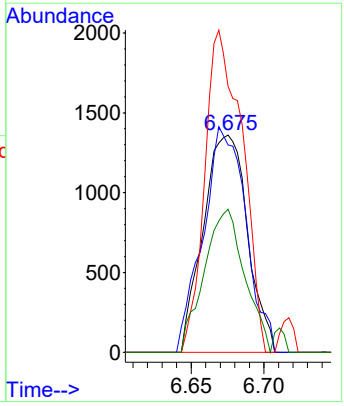


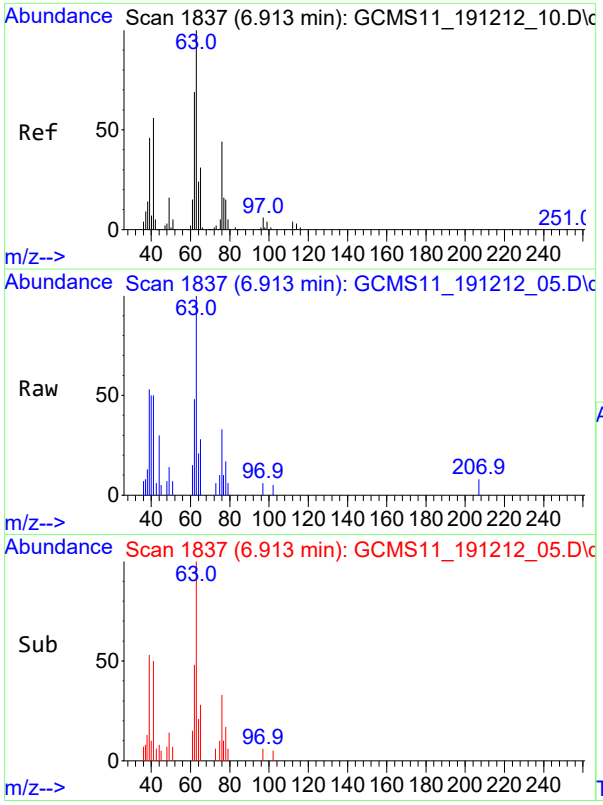


#29
Trichloroethene
Concen: 7.41 ng
RT: 6.675 min Scan# 1763
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 95 Resp: 2882

Ion	Ratio	Lower	Upper
95	100		
132	100.2	78.7	138.7
130	125.8	86.1	146.1
97	60.3	37.2	97.2

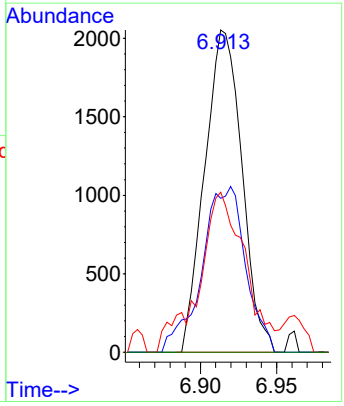


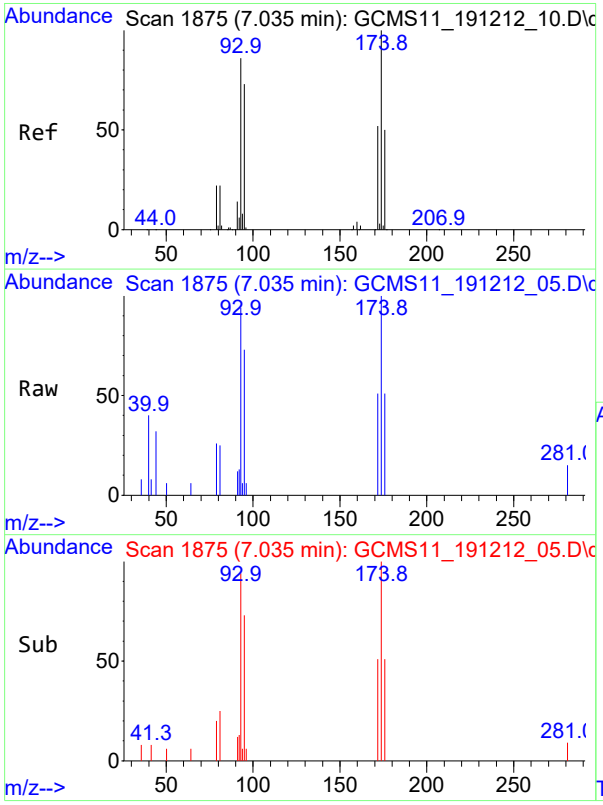


#30
1,2-Dichloropropane
Concen: 9.55 ng
RT: 6.913 min Scan# 1837
Delta R.T. -0.006 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 63 Resp: 3491

Ion	Ratio	Lower	Upper
63	100		
62	60.6	39.8	99.8
41	61.2	27.8	87.8
112	0.0	0.0	34.0

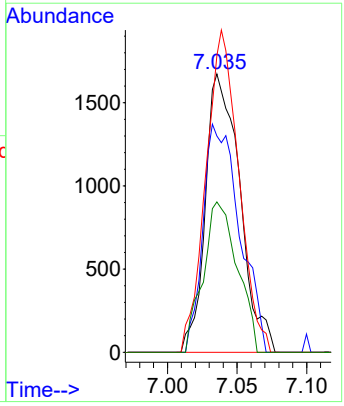


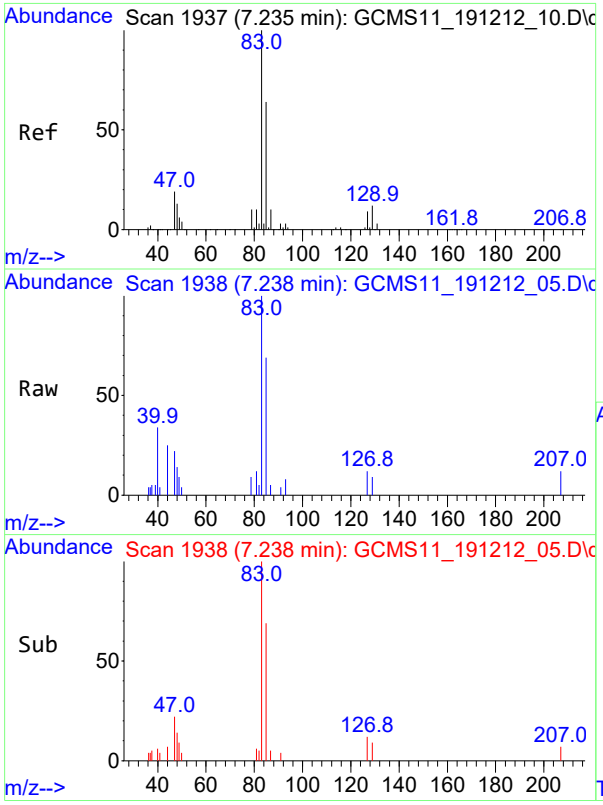


#31
Dibromomethane
Concen: 9.68 ng
RT: 7.035 min Scan# 1875
Delta R.T. -0.006 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 93 Resp: 2880

Ion	Ratio	Lower	Upper
93	100		
95	87.1	50.8	110.8
174	110.6	88.3	148.3
172	53.7	31.3	91.3

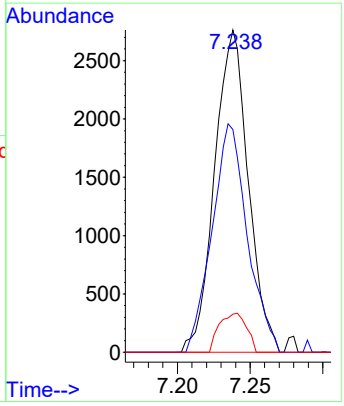


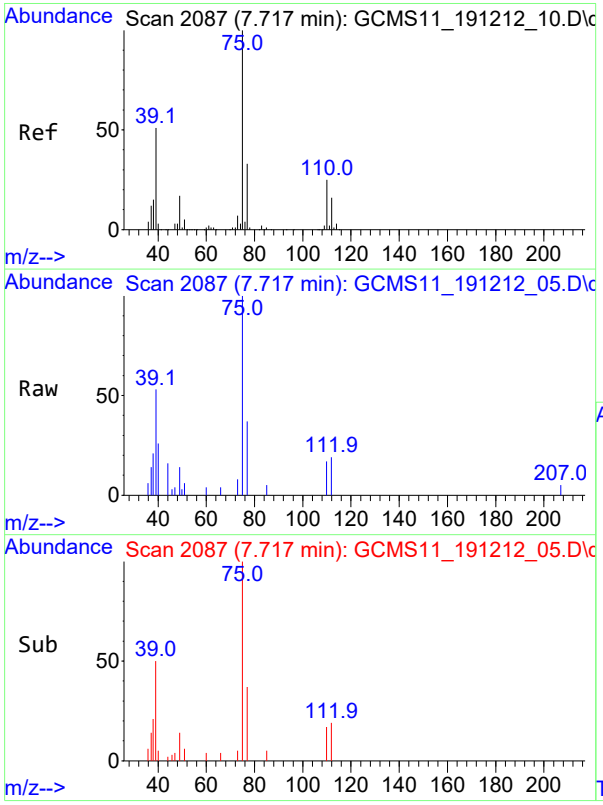


#33
Bromodichloromethane
Concen: 8.62 ng
RT: 7.238 min Scan# 1938
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 83 Resp: 4448

Ion	Ratio	Lower	Upper
83	100		
85	74.3	34.5	94.5
127	9.8	0.0	38.6

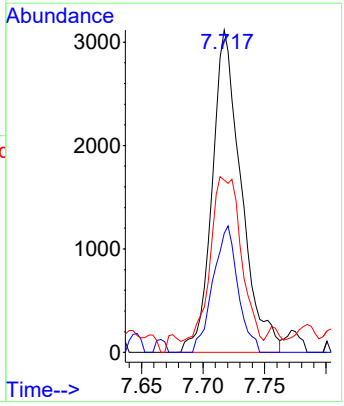


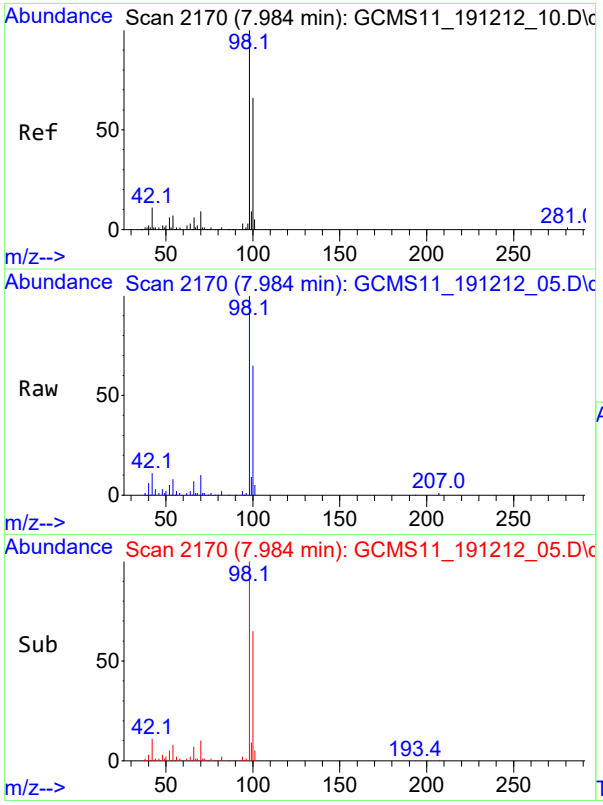


#35
cis-1,3-Dichloropropene
Concen: 8.95 ng
RT: 7.717 min Scan# 2087
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 75 Resp: 5118

Ion	Ratio	Lower	Upper
75	100		
77	33.7	2.5	62.5
39	57.9	18.8	78.8

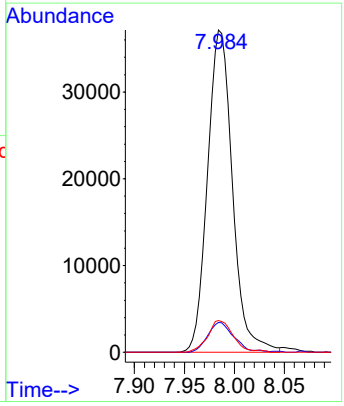


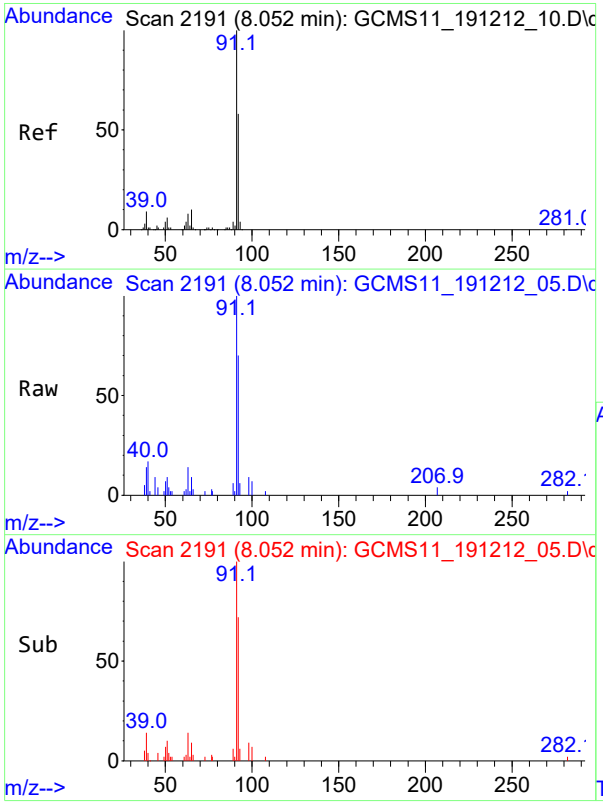


#37
TOLUENE-D8
Concen: 48.39 ng
RT: 7.984 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 98 Resp: 64711

Ion	Ratio	Lower	Upper
98	100		
99	9.8	0.0	39.8
70	10.0	0.0	40.7

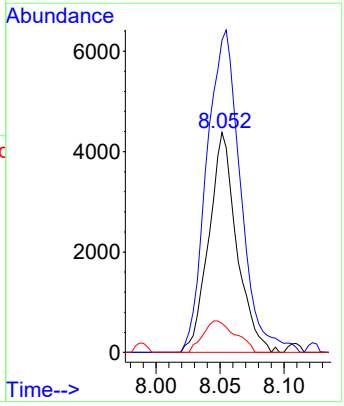


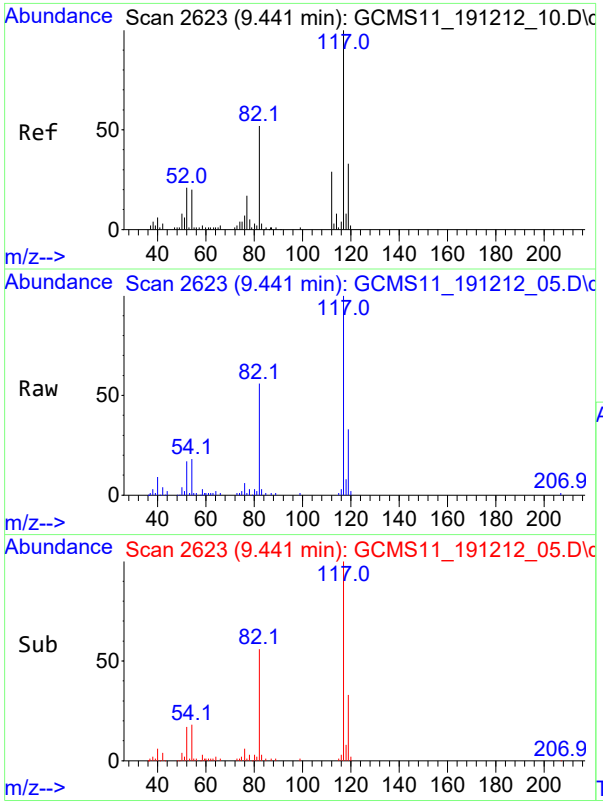


#38
Toluene
Concen: 7.22 ng
RT: 8.052 min Scan# 2191
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 92 Resp: 6660

Ion	Ratio	Lower	Upper
92	100		
91	177.1	145.1	205.1
65	16.6	0.0	48.1

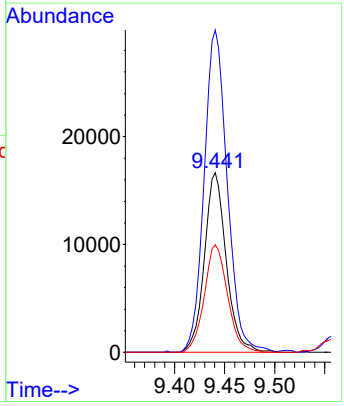


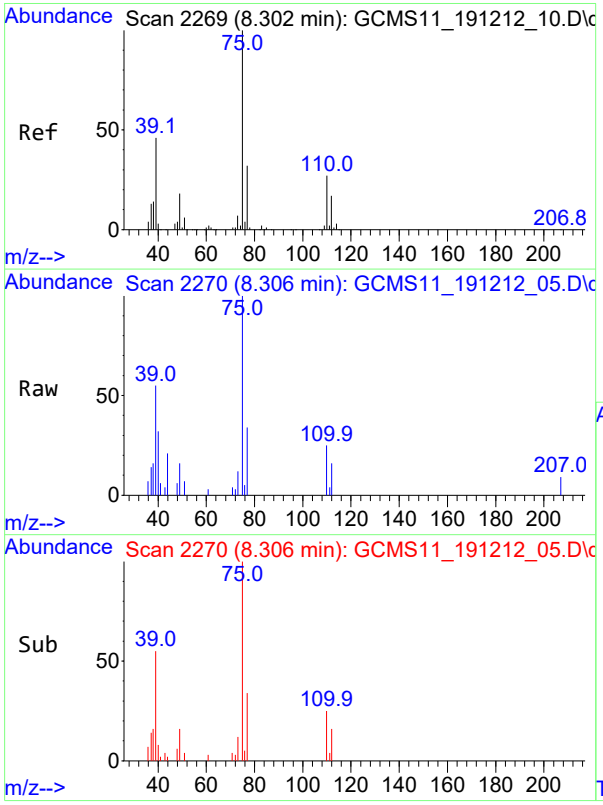


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.441 min Scan# 2623
Delta R.T. 0.001 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 82 Resp: 25515

Ion	Ratio	Lower	Upper
82	100		
117	188.9	160.7	220.7
119	63.5	33.5	93.5

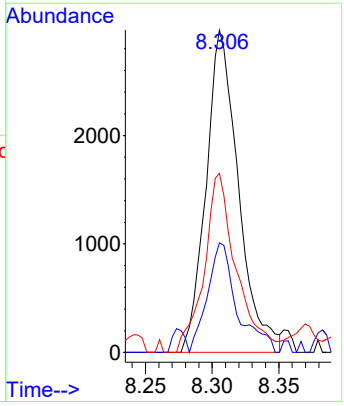


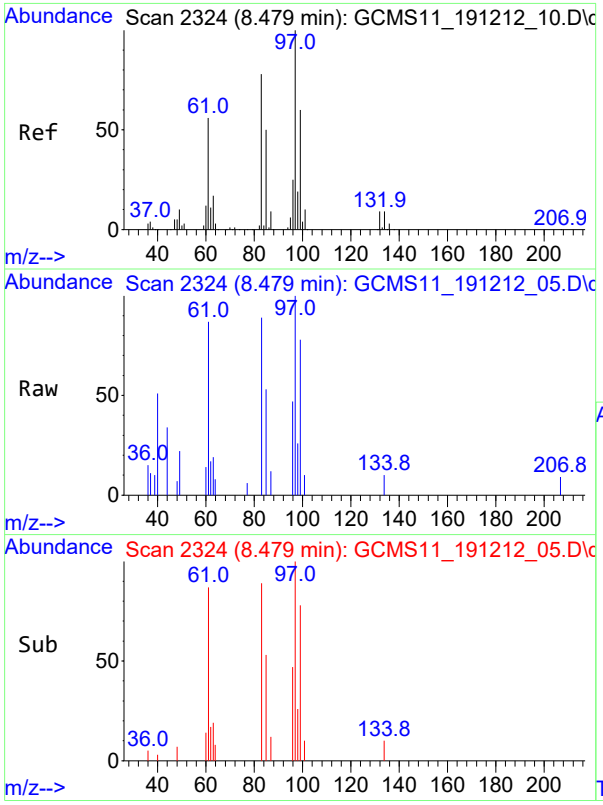


#40
trans-1,3-Dichloropropene
Concen: 9.02 ng
RT: 8.306 min Scan# 2270
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 75 Resp: 5020

Ion	Ratio	Lower	Upper
75	100		
77	31.2	0.7	60.7
39	55.1	17.0	77.0

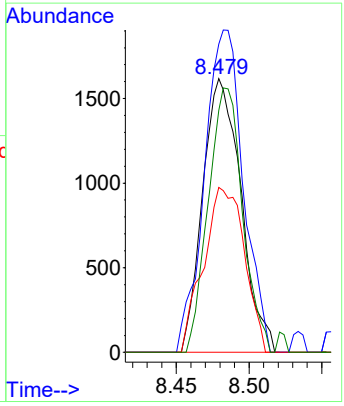


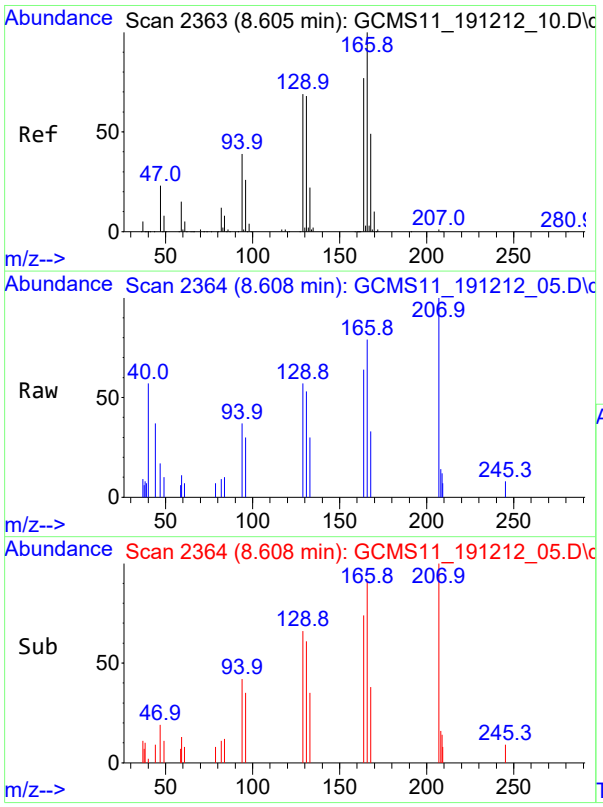


#41
1,1,2-Trichloroethane
Concen: 9.24 ng
RT: 8.479 min Scan# 2324
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 83 Resp: 2955

Ion	Ratio	Lower	Upper
83	100		
97	120.0	90.7	150.7
85	64.7	37.5	97.5
99	86.9	46.8	106.8

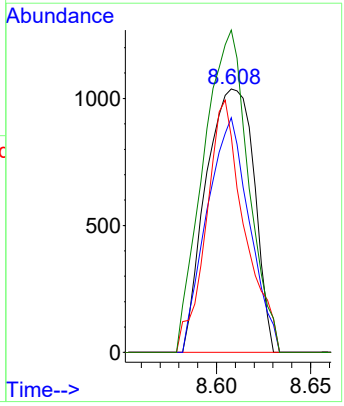


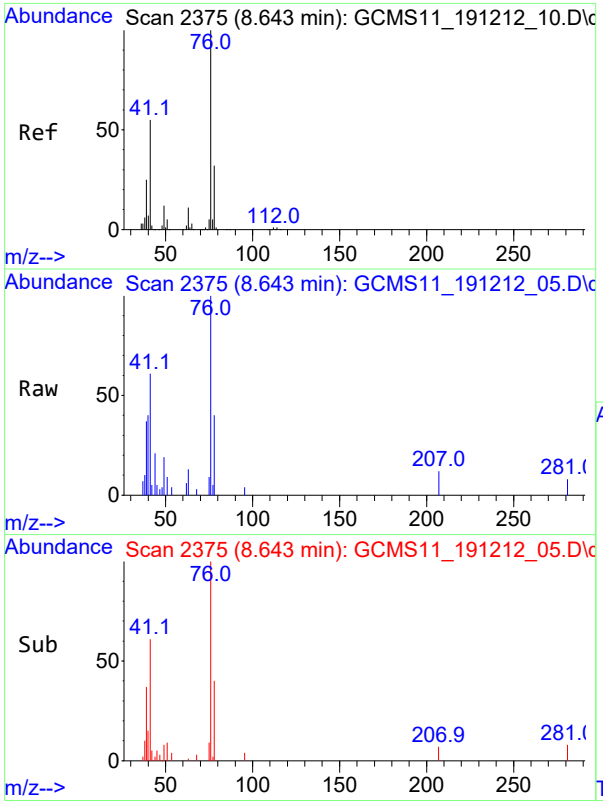


#42
Tetrachloroethene
Concen: 5.75 ng
RT: 8.608 min Scan# 2364
Delta R.T. 0.004 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:164 Resp: 1848

Ion	Ratio	Lower	Upper
164	100		
129	78.8	57.5	117.5
131	76.2	55.8	115.8
166	115.0	99.4	159.4

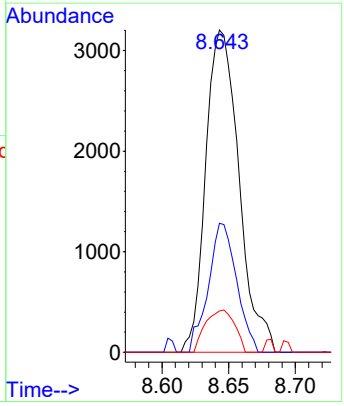


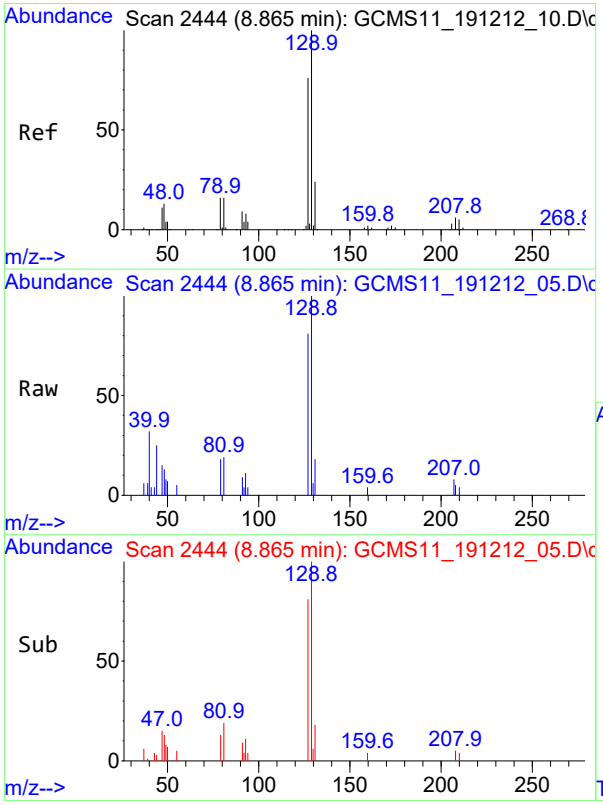


#43
1,3-Dichloropropane
Concen: 8.97 ng
RT: 8.643 min Scan# 2375
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 76 Resp: 5558

Ion	Ratio	Lower	Upper
76	100		
78	34.0	2.5	62.5
63	11.6	0.0	40.6

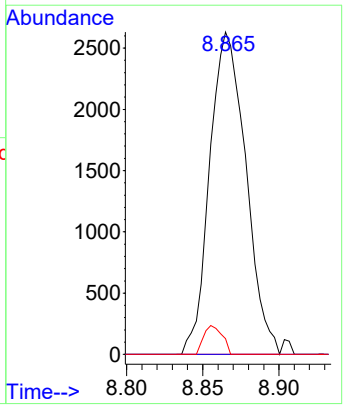


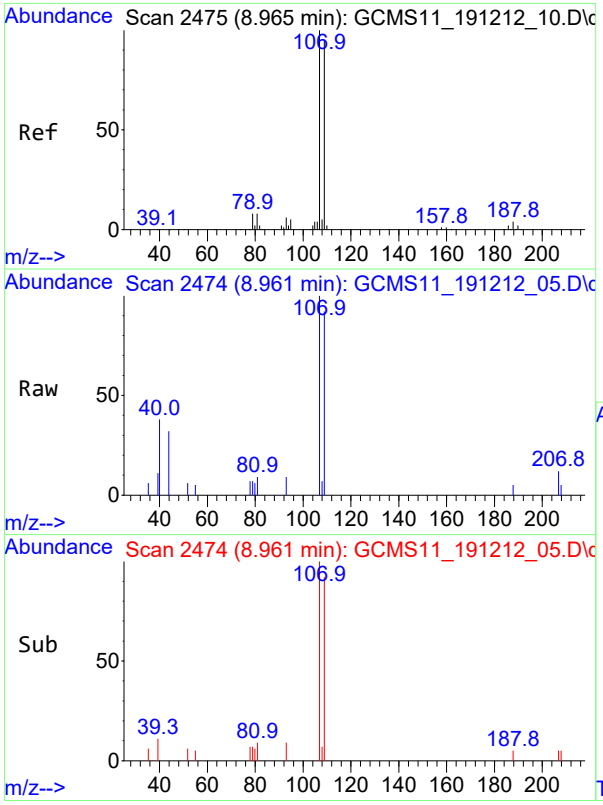


#45
Dibromochloromethane
Concen: 9.15 ng
RT: 8.865 min Scan# 2444
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:129 Resp: 4346

Ion	Ratio	Lower	Upper
129	100		
206	0.0	0.0	32.2
208	4.6	0.0	36.8

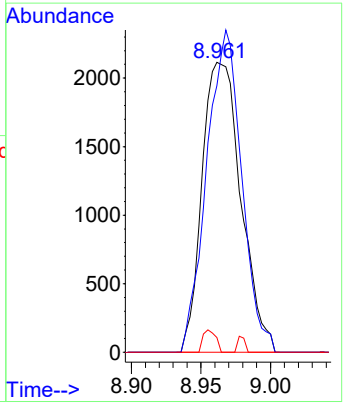


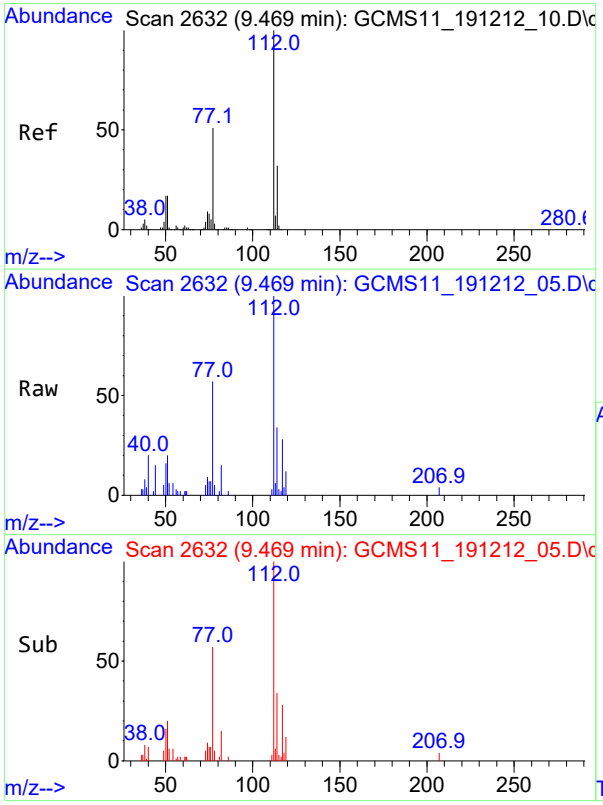


#46
1,2-Dibromoethane (EDB)
Concen: 10.14 ng
RT: 8.961 min Scan# 2474
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:107 Resp: 4113

Ion	Ratio	Lower	Upper
107	100		
109	99.9	60.6	120.6
188	2.6	0.0	33.6

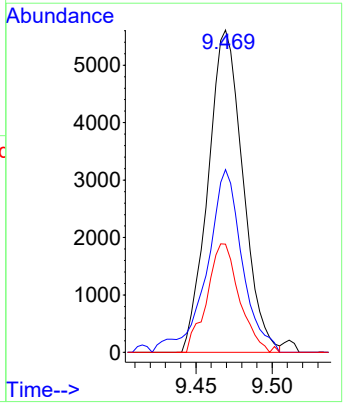


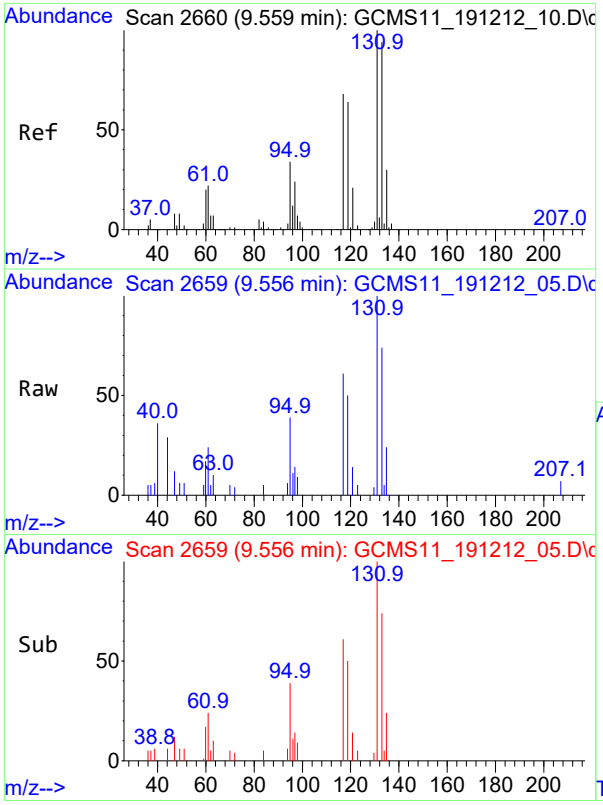


#47
Chlorobenzene
Concen: 8.13 ng
RT: 9.469 min Scan# 2632
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:112 Resp: 8914

Ion	Ratio	Lower	Upper
112	100		
77	57.3	21.6	81.6
114	31.4	1.4	61.4

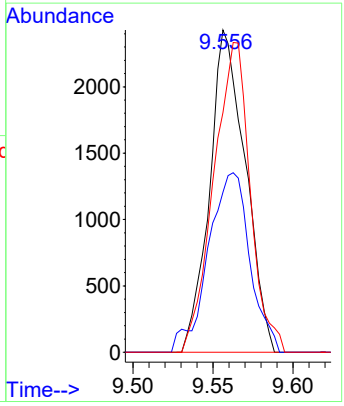


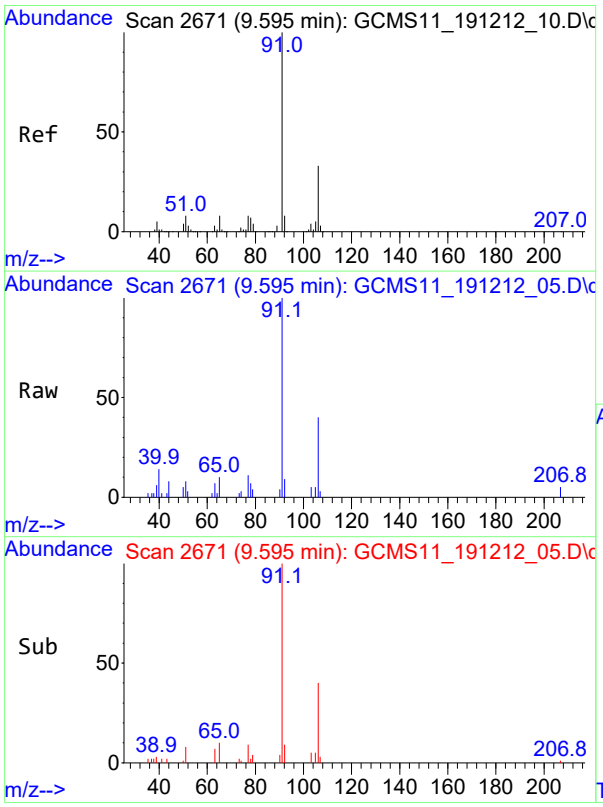


#48
1,1,1,2-Tetrachloroethane
Concen: 8.97 ng
RT: 9.556 min Scan# 2659
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:131 Resp: 3785

Ion	Ratio	Lower	Upper
131	100		
119	64.8	33.7	93.7
133	98.0	65.9	125.9

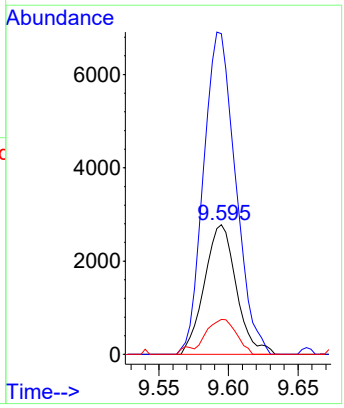


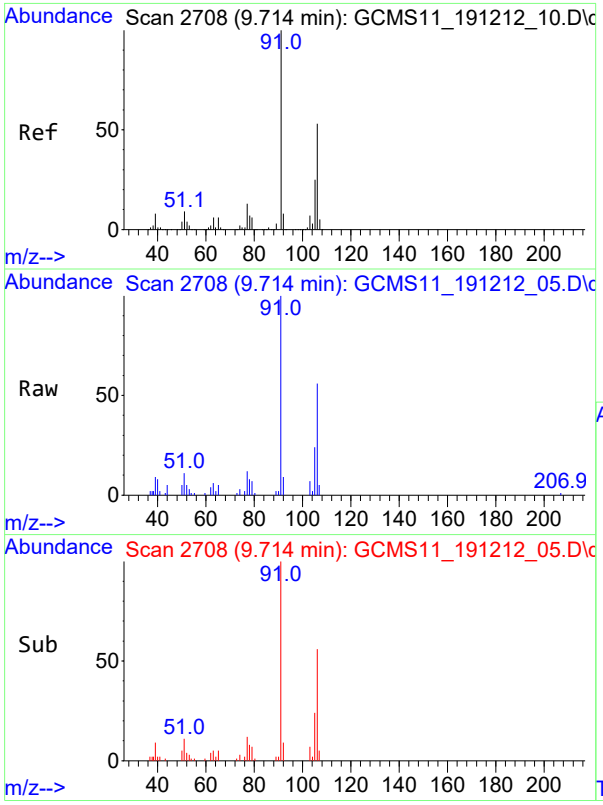


#49
Ethylbenzene
Concen: 7.84 ng
RT: 9.595 min Scan# 2671
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:106 Resp: 4428

Ion	Ratio	Lower	Upper
106	100		
91	249.2	267.1	327.1#
77	27.5	0.0	57.1

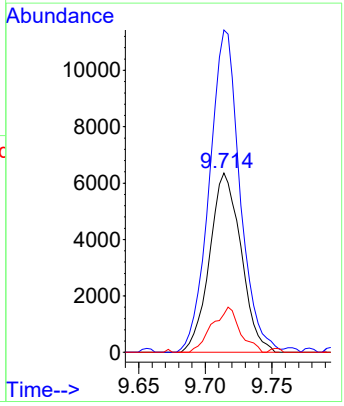


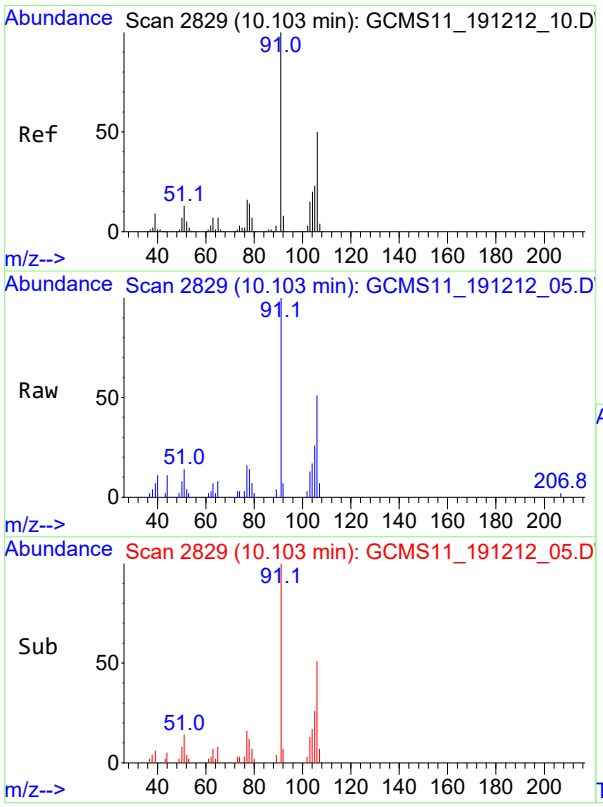


#50
m+p-Xylene
Concen: 14.59 ng
RT: 9.714 min Scan# 2708
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:106 Resp: 10423

Ion	Ratio	Lower	Upper
106	100		
91	175.0	160.8	220.8
77	22.4	0.0	54.6

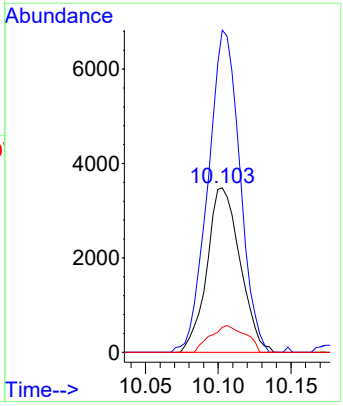


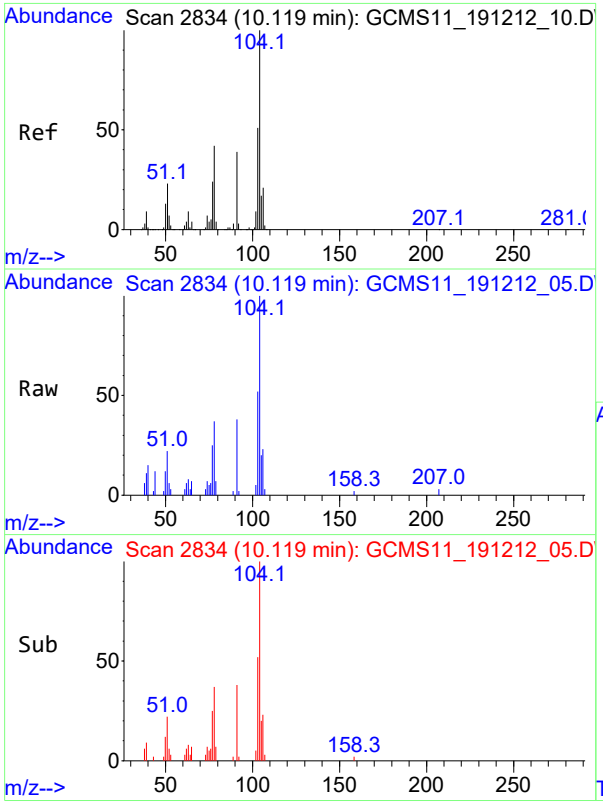


#51
o-Xylene
Concen: 8.00 ng
RT: 10.103 min Scan# 2829
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:106 Resp: 5525

Ion	Ratio	Lower	Upper
106	100		
91	188.5	178.4	238.4
65	17.3	0.0	45.9

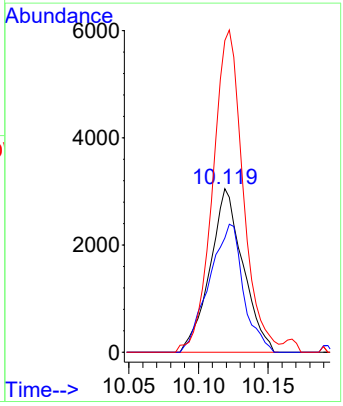


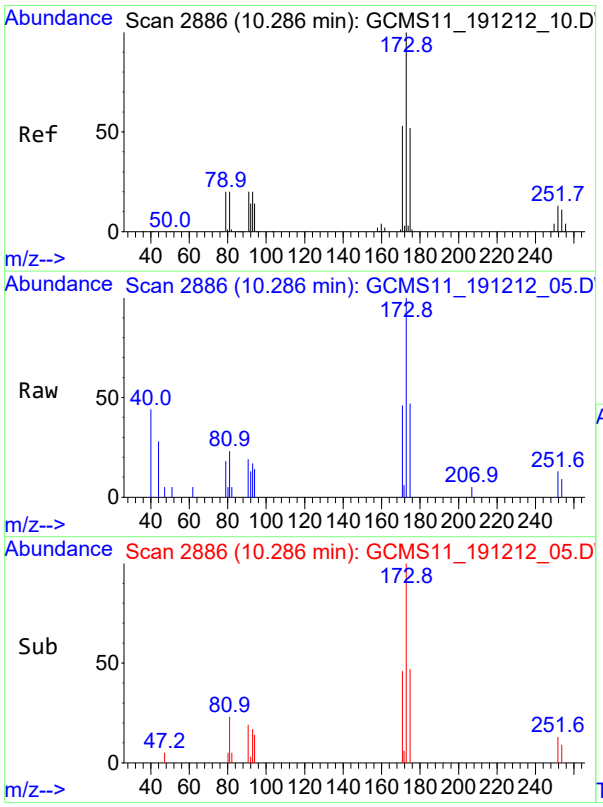


#52
Styrene
Concen: 7.69 ng
RT: 10.119 min Scan# 2834
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:103 Resp: 5020

Ion	Ratio	Lower	Upper
103	100		
78	81.0	54.1	114.1
104	181.9	150.1	210.1

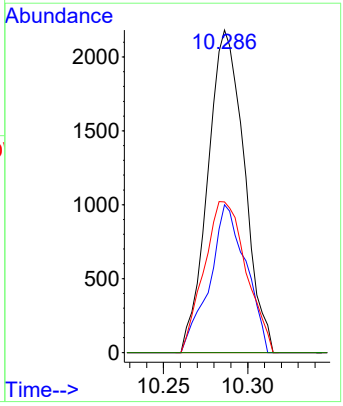


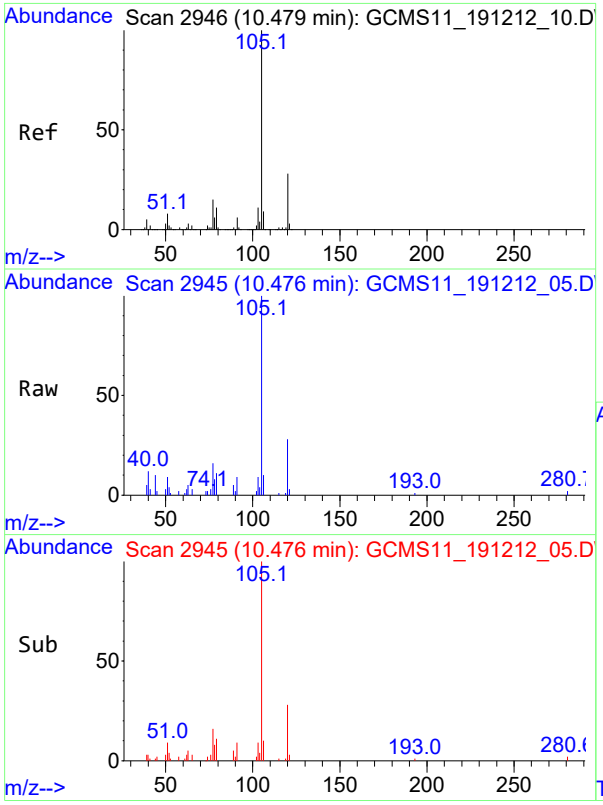


#53
Bromoform
Concen: 9.56 ng
RT: 10.286 min Scan# 2886
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:173 Resp: 3287

Ion	Ratio	Lower	Upper
173	100		
171	45.7	24.1	84.1
175	54.0	16.4	76.4
254	0.0	0.0	30.0

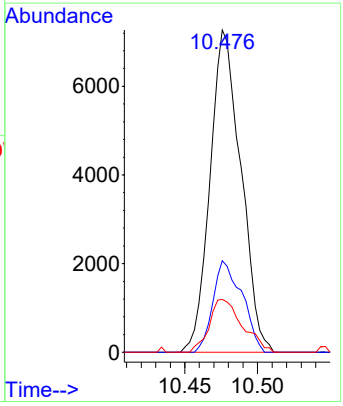


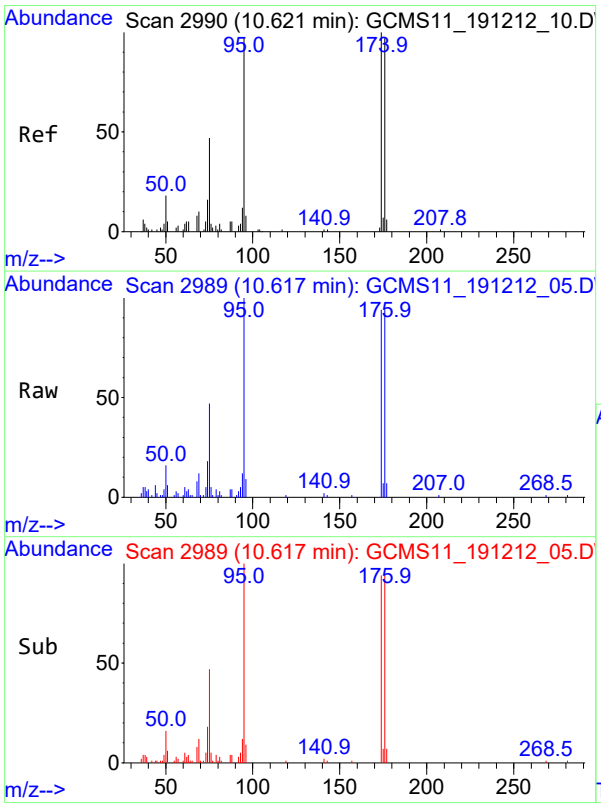


#54
Isopropylbenzene
Concen: 5.88 ng
RT: 10.476 min Scan# 2945
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:105 Resp: 10711

Ion	Ratio	Lower	Upper
105	100		
120	26.7	0.0	59.2
77	17.7	0.0	44.3

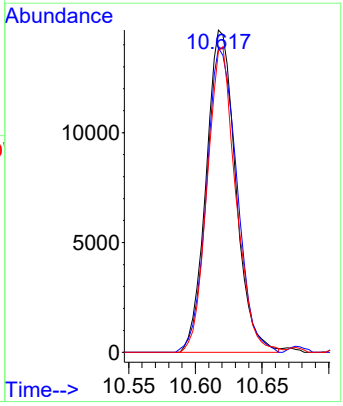


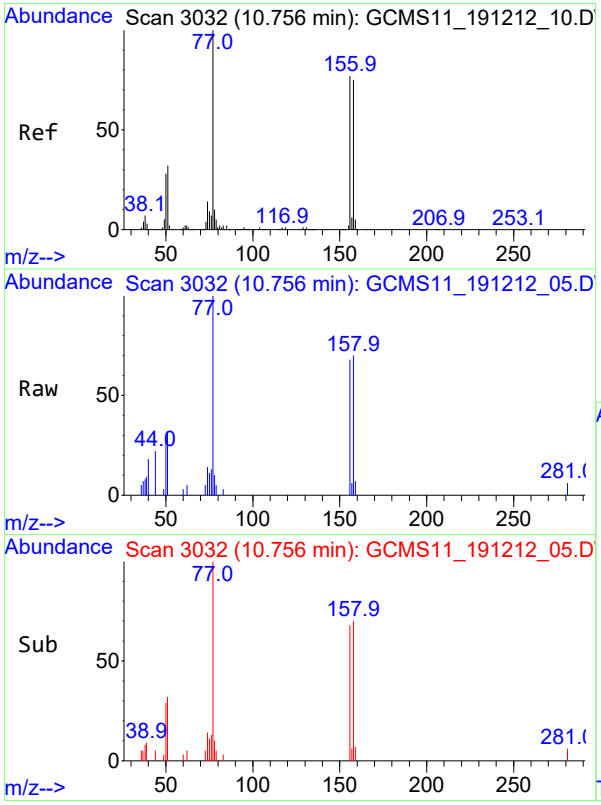


#55
4-BROMOFLUOROBENZENE
Concen: 48.94 ng
RT: 10.617 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 95 Resp: 22640

Ion	Ratio	Lower	Upper
95	100		
174	96.9	68.5	128.5
176	91.7	66.8	126.8

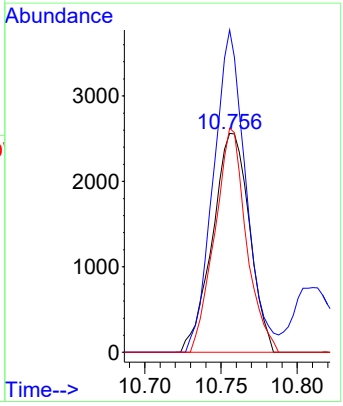


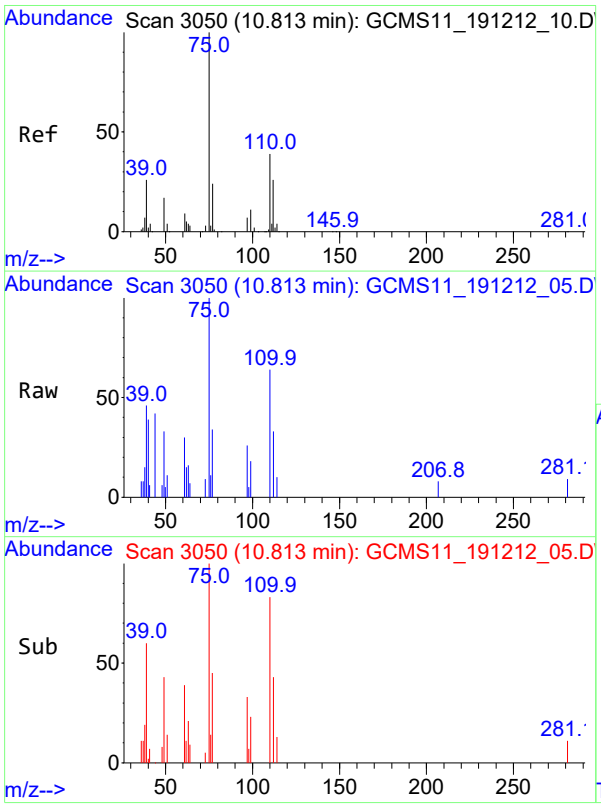


#56
Bromobenzene
Concen: 9.02 ng
RT: 10.756 min Scan# 3032
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:156 Resp: 4314

Ion	Ratio	Lower	Upper
156	100		
77	129.3	102.0	162.0
158	87.5	70.7	130.7

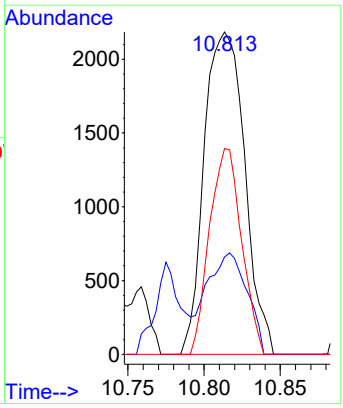


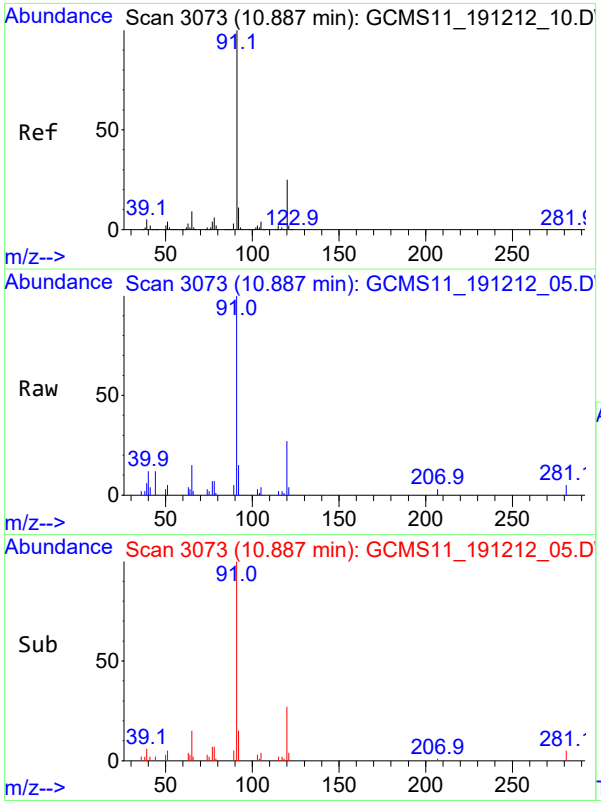


#57
1,2,3-Trichloropropane
Concen: 9.63 ng
RT: 10.813 min Scan# 3050
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 75 Resp: 4037

Ion	Ratio	Lower	Upper
75	100		
61	31.9	0.0	53.9
110	50.5	12.0	72.0

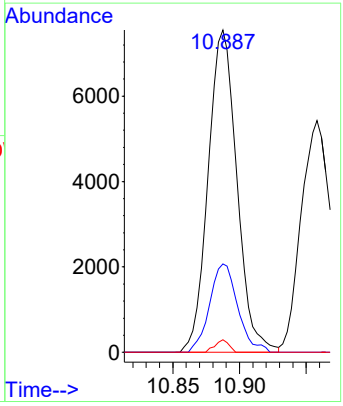


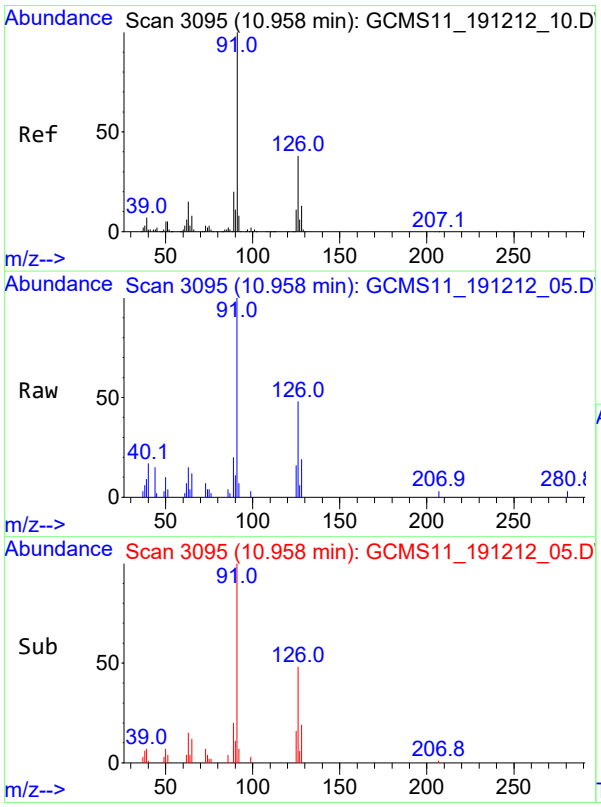


#58
n-Propylbenzene
Concen: 5.53 ng
RT: 10.887 min Scan# 3073
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 91 Resp: 11327

Ion	Ratio	Lower	Upper
91	100		
120	26.8	0.0	55.0
121	1.9	0.0	32.4

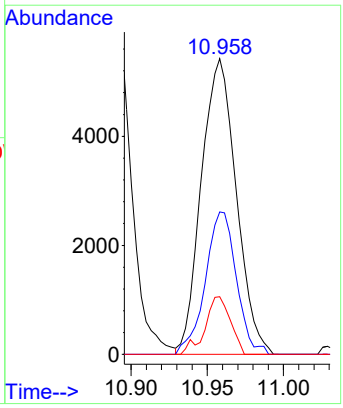


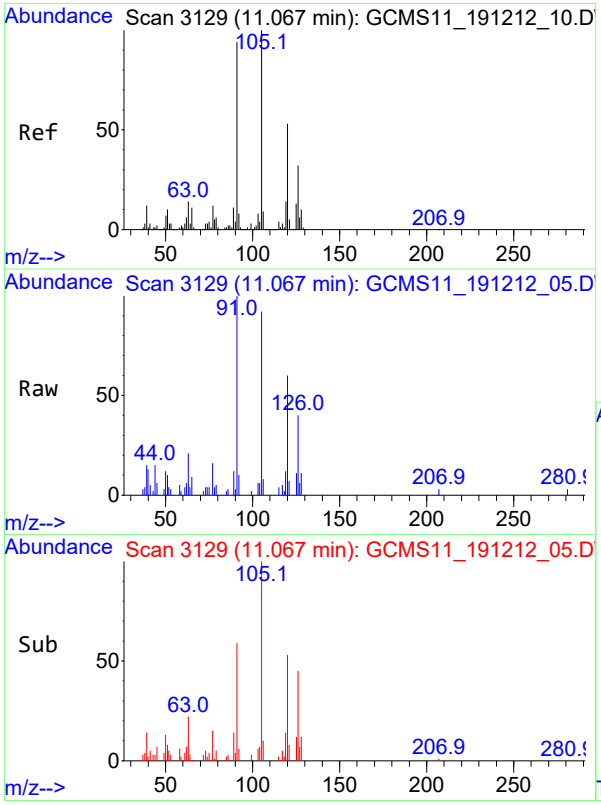


#59
2-Chlorotoluene
Concen: 7.21 ng
RT: 10.958 min Scan# 3095
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 91 Resp: 8640

Ion	Ratio	Lower	Upper
91	100		
126	42.8	7.6	67.6
128	14.2	0.0	41.8

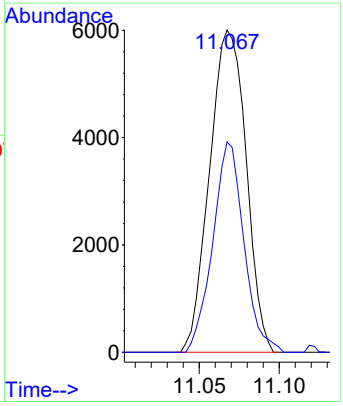


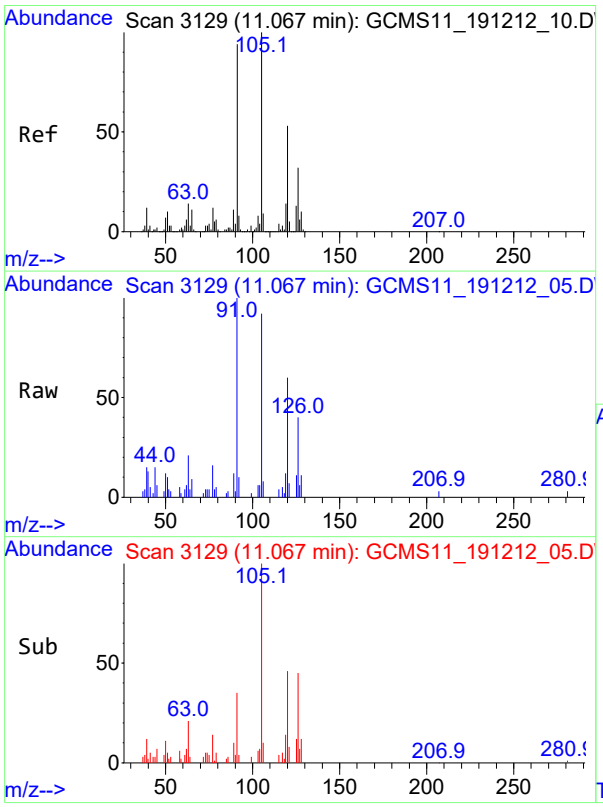


#60
1,3,5-Trimethylbenzene
Concen: 6.44 ng
RT: 11.067 min Scan# 3129
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:105 Resp: 9562

Ion	Ratio	Lower	Upper
105	100		
120	55.7	22.4	82.4

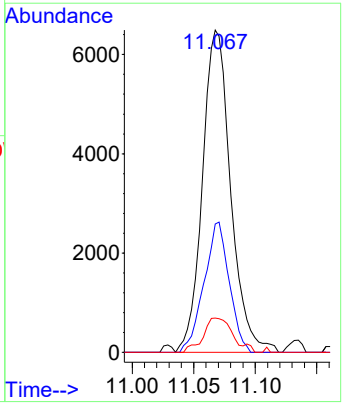


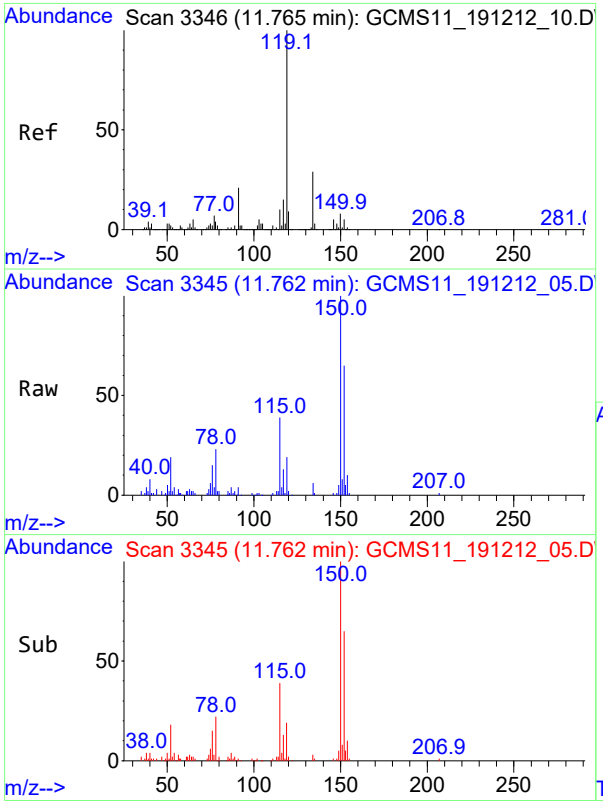


#61
4-Chlorotoluene
Concen: 7.43 ng
RT: 11.067 min Scan# 3129
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 91 Resp: 10383

Ion	Ratio	Lower	Upper
91	100		
126	36.0	3.3	63.3
128	11.2	0.0	41.2

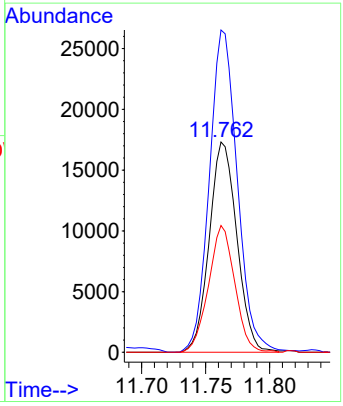


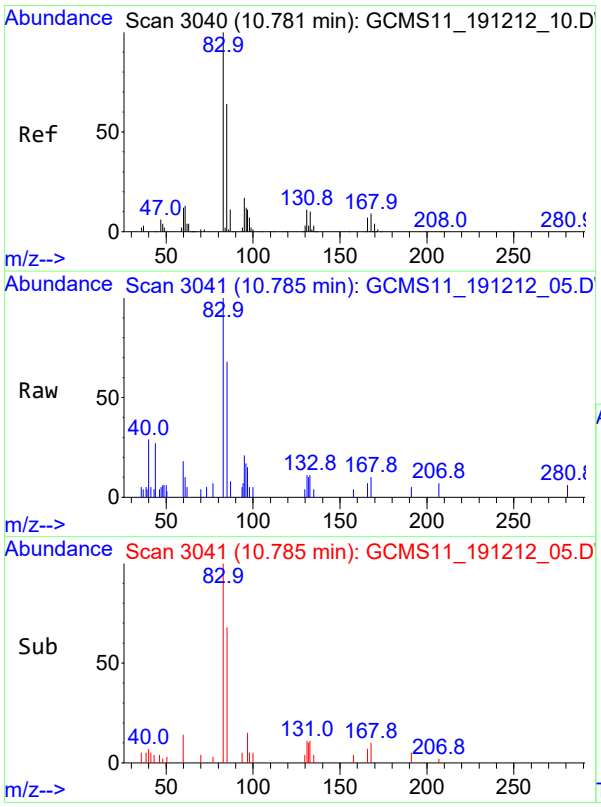


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.762 min Scan# 3345
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:152 Resp: 25981

Ion	Ratio	Lower	Upper
152	100		
150	155.6	162.5	222.5#
115	57.4	82.3	142.3#

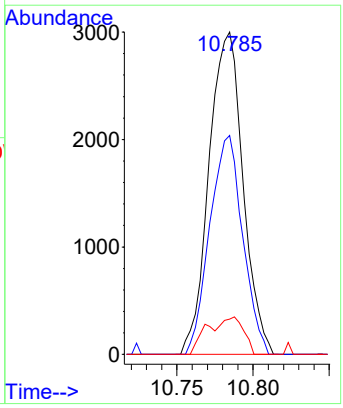


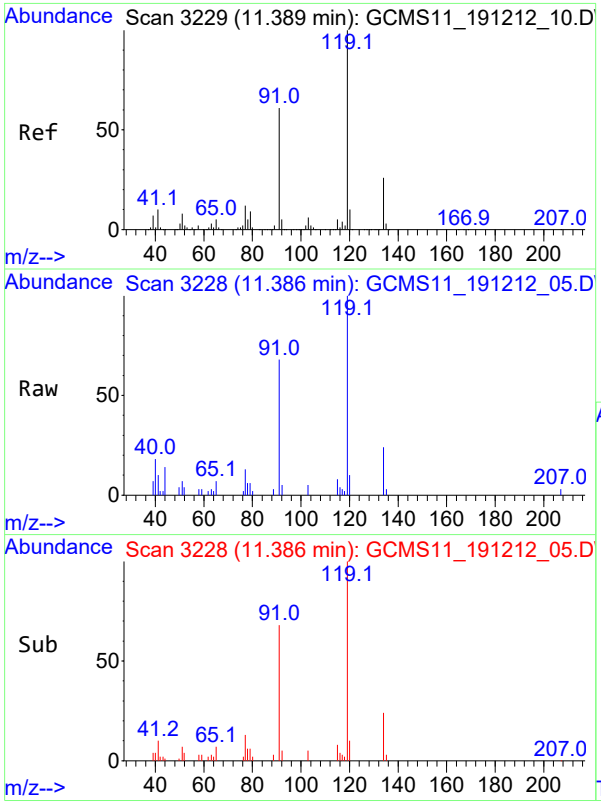


#63
1,1,2,2-Tetrachloroethane
Concen: 9.99 ng
RT: 10.785 min Scan# 3041
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 83 Resp: 4659

Ion	Ratio	Lower	Upper
83	100		
85	65.6	35.1	95.1
131	7.9	0.0	41.4

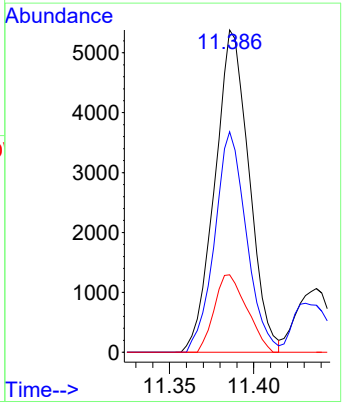


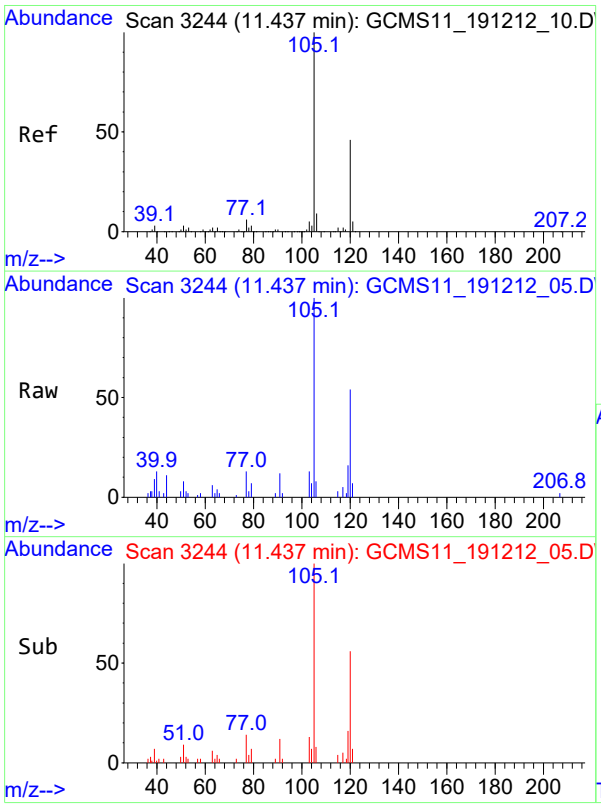


#64
tert-Butylbenzene
Concen: 6.64 ng
RT: 11.386 min Scan# 3228
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:119 Resp: 7617

Ion	Ratio	Lower	Upper
119	100		
91	63.9	31.1	91.1
134	22.8	0.0	55.9

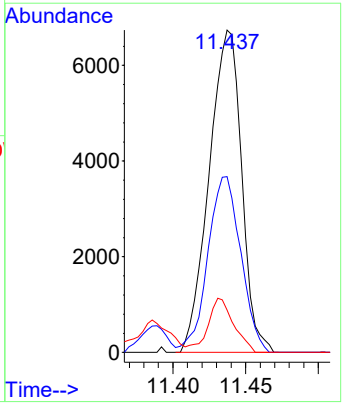


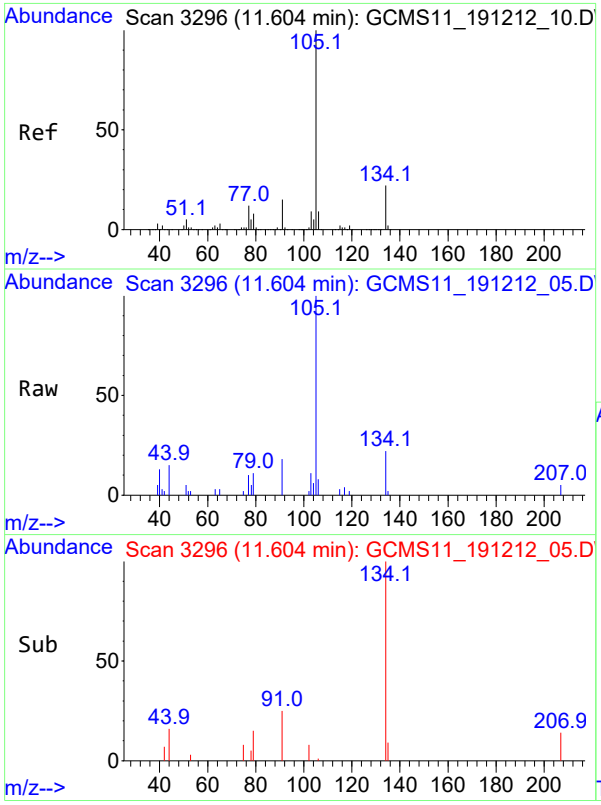


#65
1,2,4-Trimethylbenzene
Concen: 7.48 ng
RT: 11.437 min Scan# 3244
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:105 Resp: 10491

Ion	Ratio	Lower	Upper
105	100		
120	55.4	18.6	78.6
77	13.1	0.0	41.4

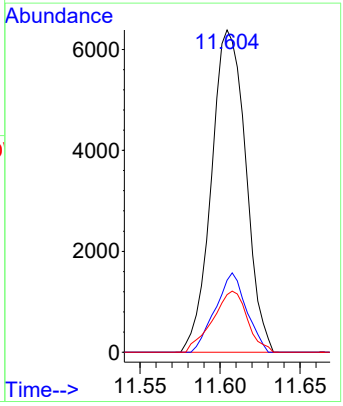


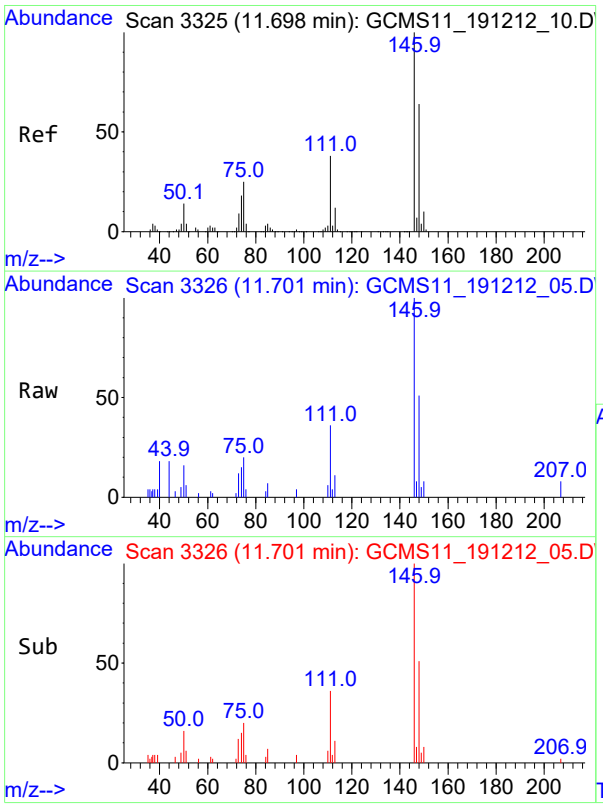


#66
sec-Butylbenzene
Concen: 5.55 ng
RT: 11.604 min Scan# 3296
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:105 Resp: 9547

Ion	Ratio	Lower	Upper
105	100		
134	22.3	0.0	52.3
91	19.3	0.0	45.3

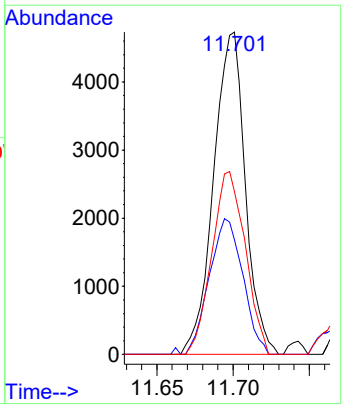


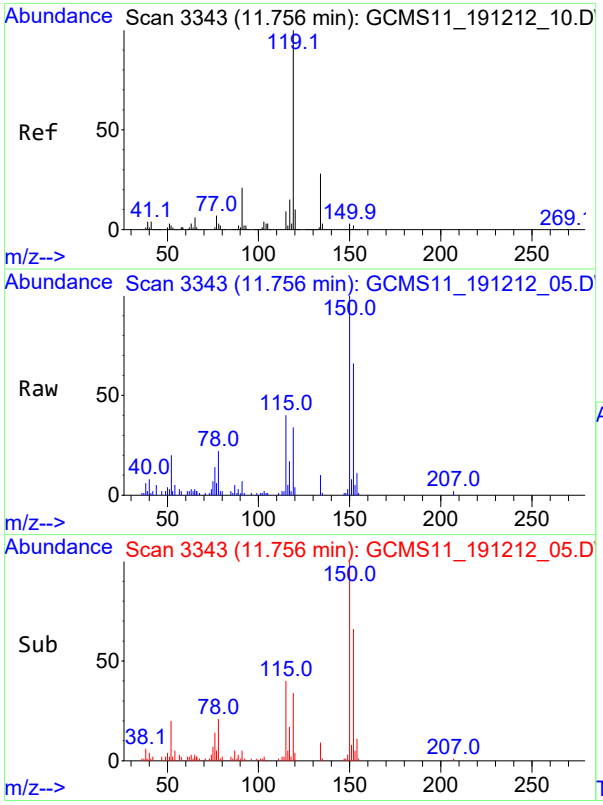


#67
1,3-Dichlorobenzene
Concen: 8.53 ng
RT: 11.701 min Scan# 3326
Delta R.T. 0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:146 Resp: 6843

Ion	Ratio	Lower	Upper
146	100		
111	44.5	7.5	67.5
148	59.8	37.4	97.4

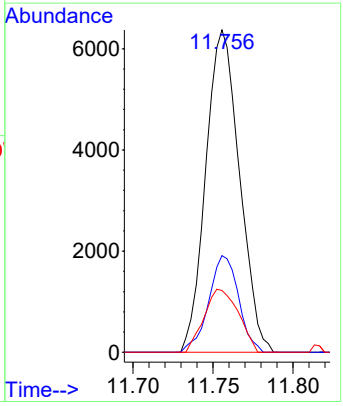


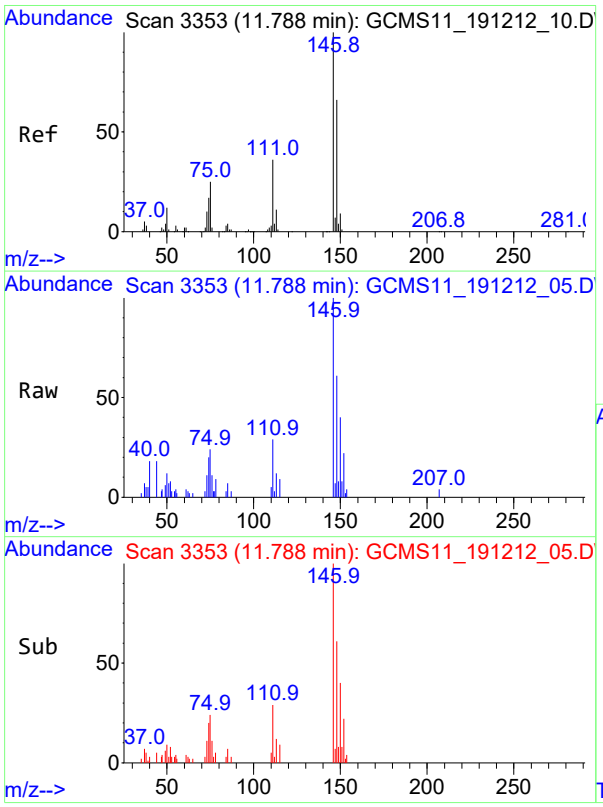


#68
p-Isopropyltoluene
Concen: 6.21 ng
RT: 11.756 min Scan# 3343
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:119 Resp: 9360

Ion	Ratio	Lower	Upper
119	100		
134	26.6	0.0	57.5
91	19.9	0.0	51.3

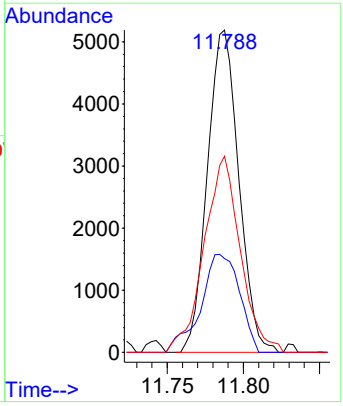


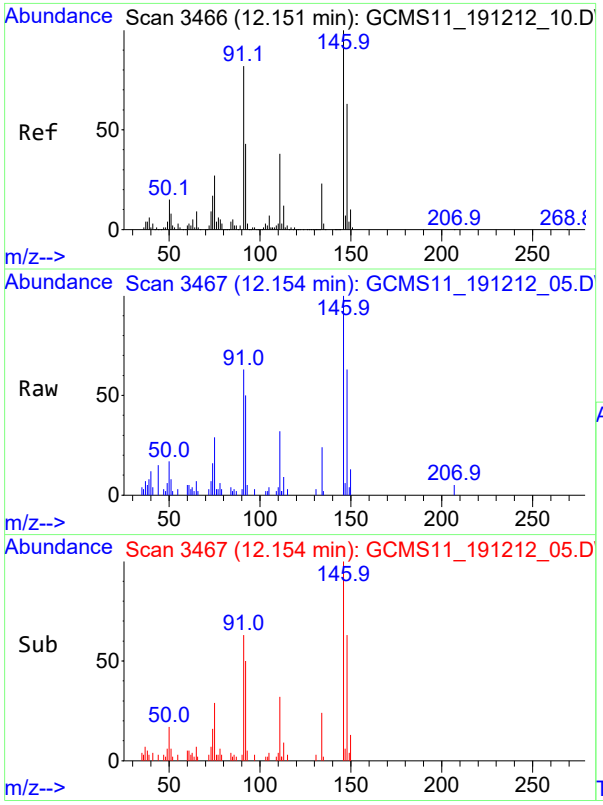


#69
1,4-Dichlorobenzene
Concen: 9.10 ng
RT: 11.788 min Scan# 3353
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:146 Resp: 7434

Ion	Ratio	Lower	Upper
146	100		
111	37.6	3.3	63.3
148	70.3	33.5	93.5

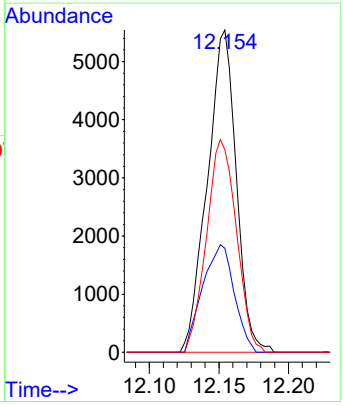


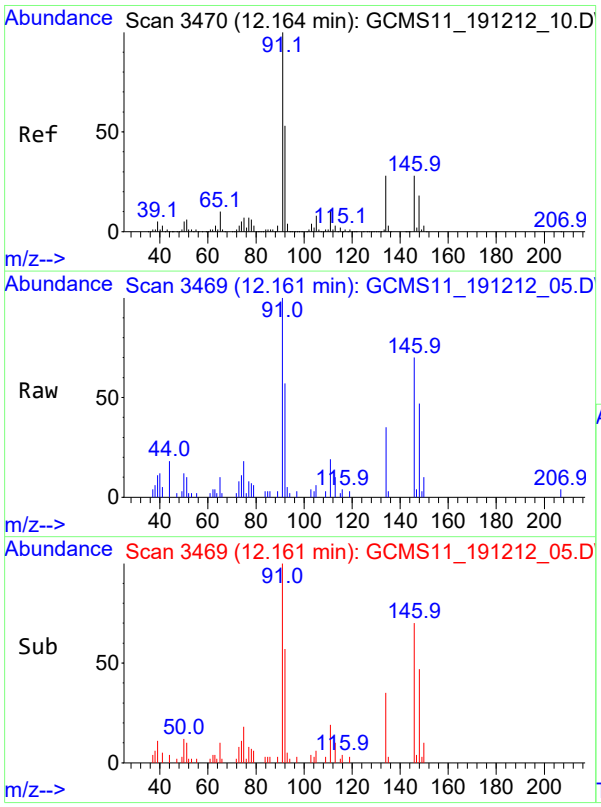


#70
1,2-Dichlorobenzene
Concen: 9.23 ng
RT: 12.154 min Scan# 3467
Delta R.T. 0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:146 Resp: 8004

Ion	Ratio	Lower	Upper
146	100		
111	36.5	8.4	68.4
148	68.3	34.6	94.6

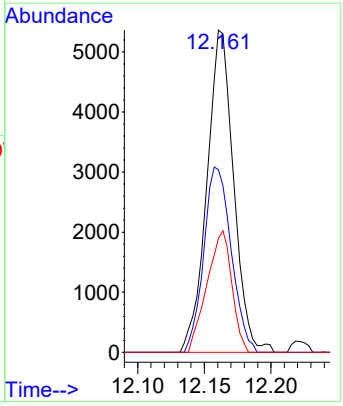


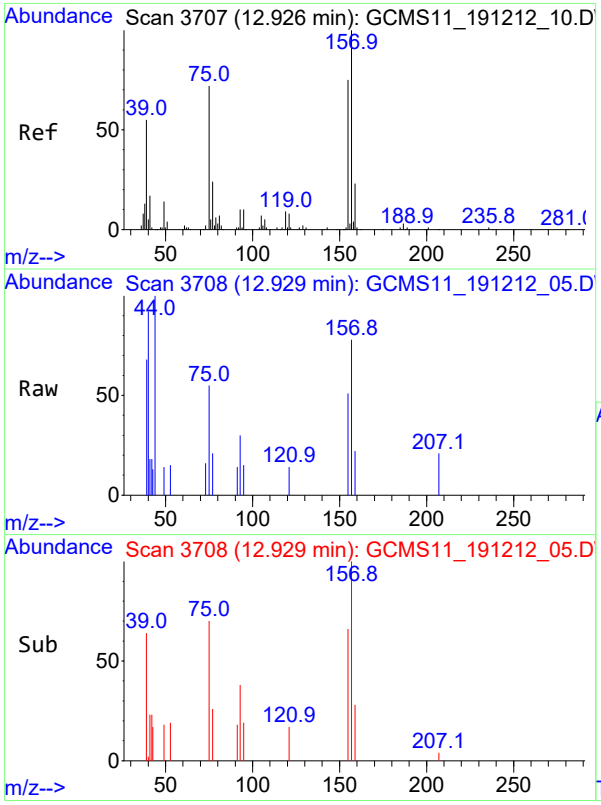


#71
n-Butylbenzene
Concen: 5.59 ng
RT: 12.161 min Scan# 3469
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion: 91 Resp: 7488

Ion	Ratio	Lower	Upper
91	100		
92	59.0	22.0	82.0
134	34.9	0.0	58.4

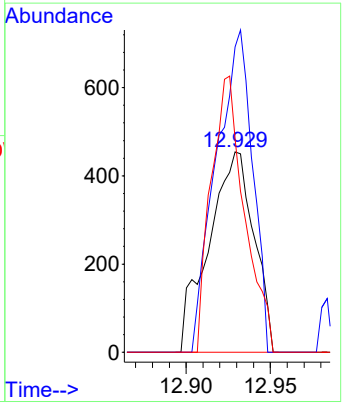


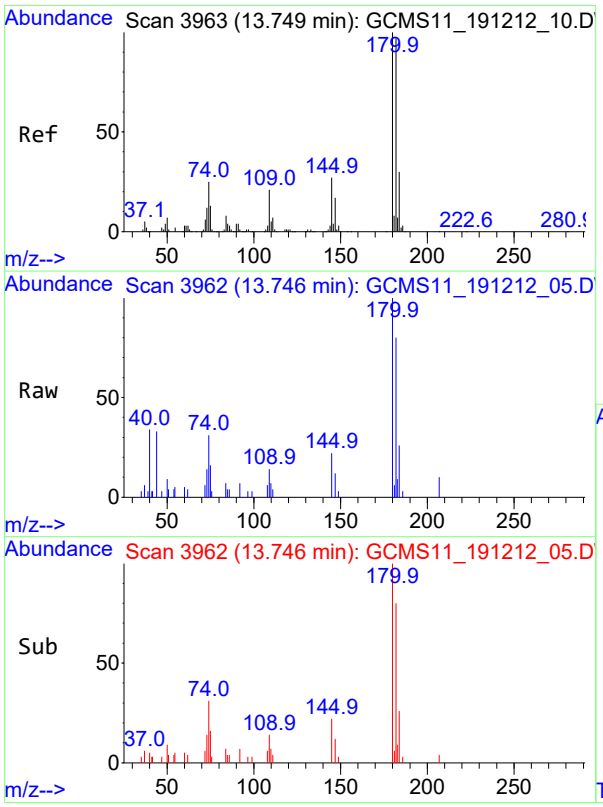


#72
1,2-Dibromo-3-chloropropane
Concen: 9.55 ng
RT: 12.929 min Scan# 3708
Delta R.T. 0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:155 Resp: 851

Ion	Ratio	Lower	Upper
155	100		
157	128.9	110.8	170.8
75	101.9	79.5	139.5

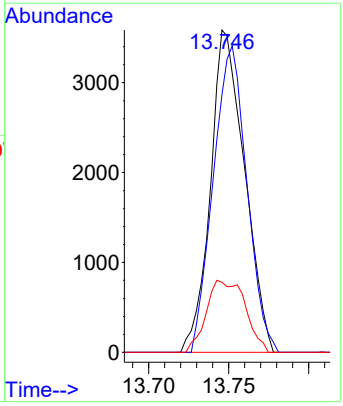


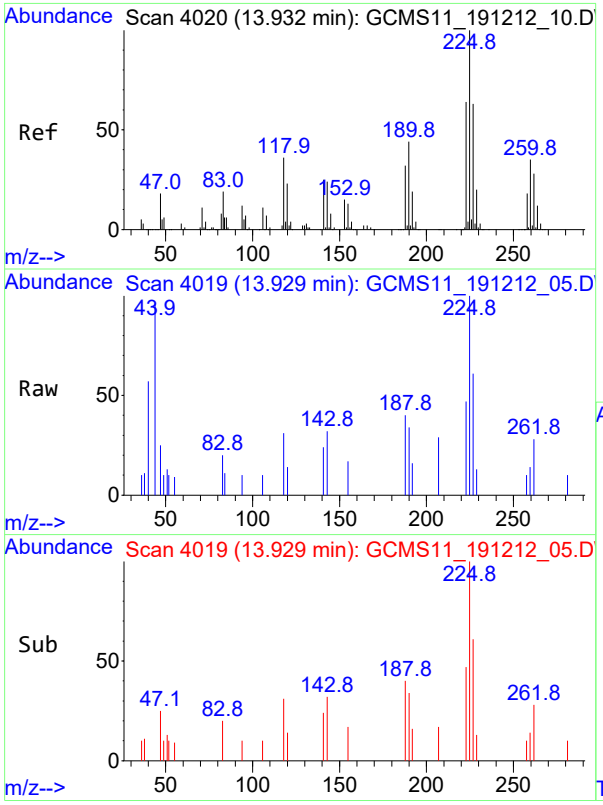


#73
1,2,4-Trichlorobenzene
Concen: 9.09 ng
RT: 13.746 min Scan# 3962
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:180 Resp: 5319

Ion	Ratio	Lower	Upper
180	100		
182	93.6	66.7	126.7
145	25.6	0.0	58.2

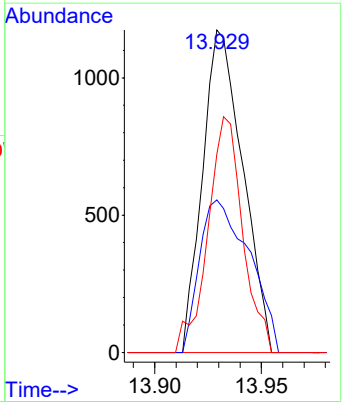


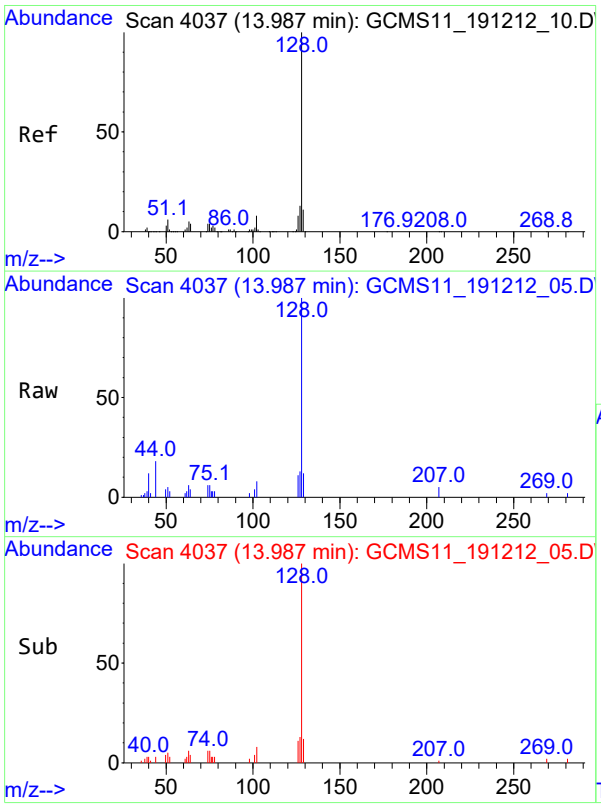


#74
Hexachlorobutadiene
Concen: 5.64 ng
RT: 13.929 min Scan# 4019
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:225 Resp: 1537

Ion	Ratio	Lower	Upper
225	100		
223	58.6	1242.7	1302.7#
227	63.2	19.6	79.6

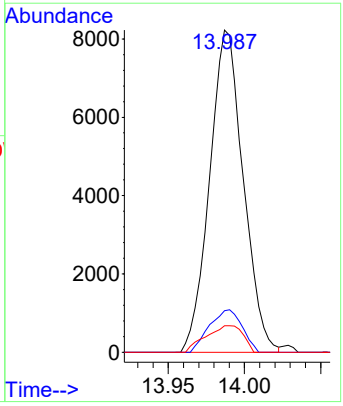


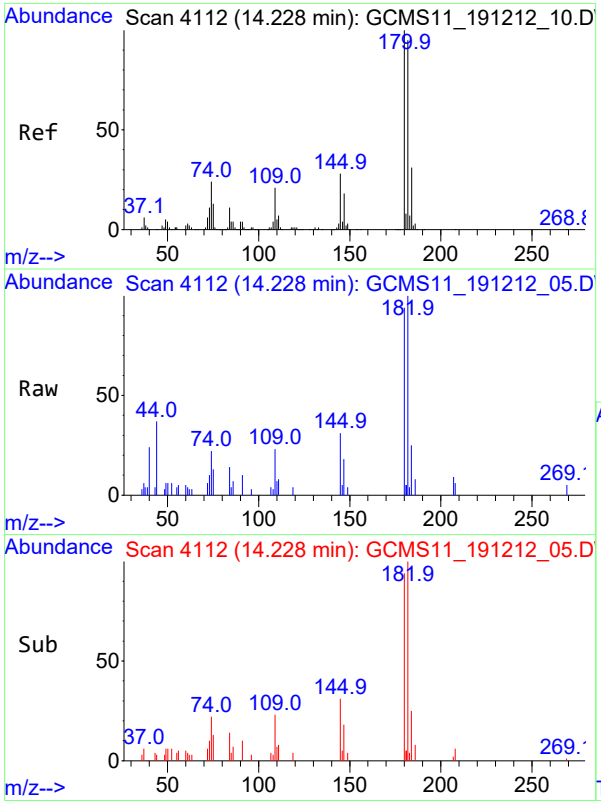


#75
Naphthalene
Concen: 8.43 ng
RT: 13.987 min Scan# 4037
Delta R.T. -0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:128 Resp: 12626

Ion	Ratio	Lower	Upper
128	100		
127	12.9	0.0	43.5
102	9.1	0.0	37.4

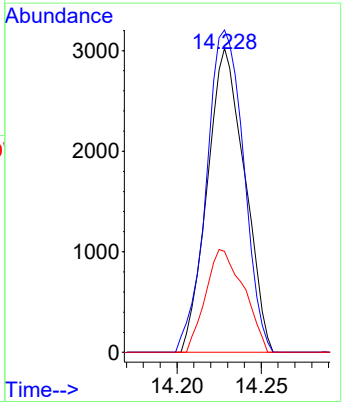




#76
1,2,3-Trichlorobenzene
Concen: 7.55 ng
RT: 14.228 min Scan# 4112
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

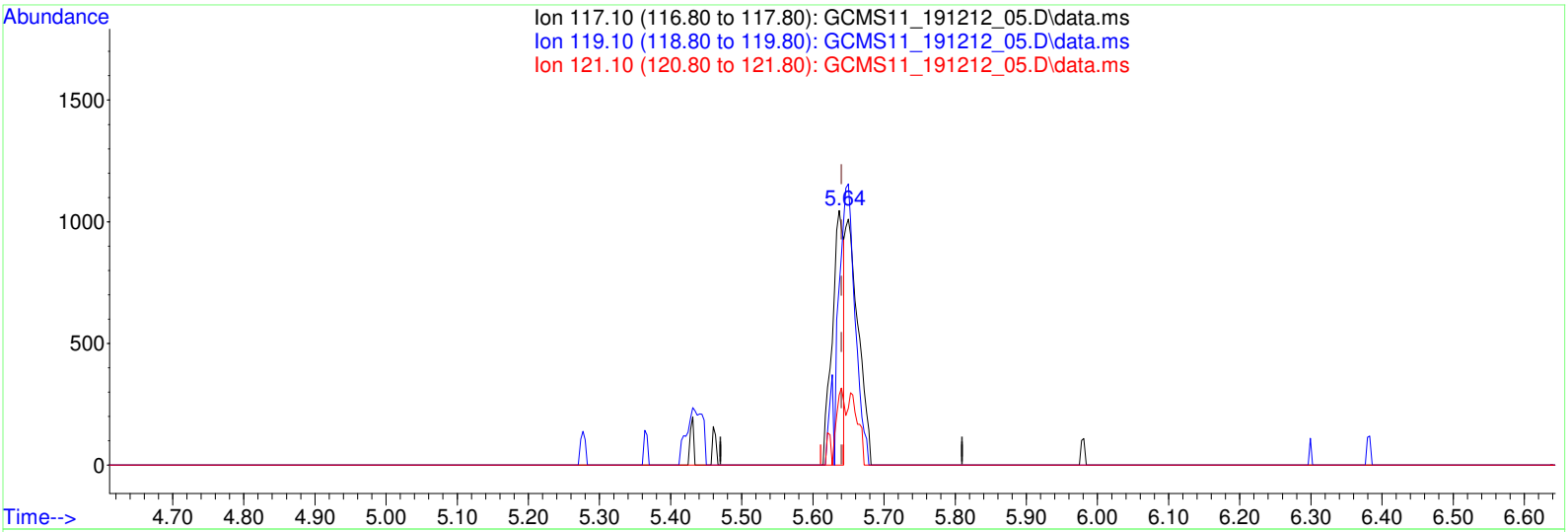
Tgt Ion:180 Resp: 4677

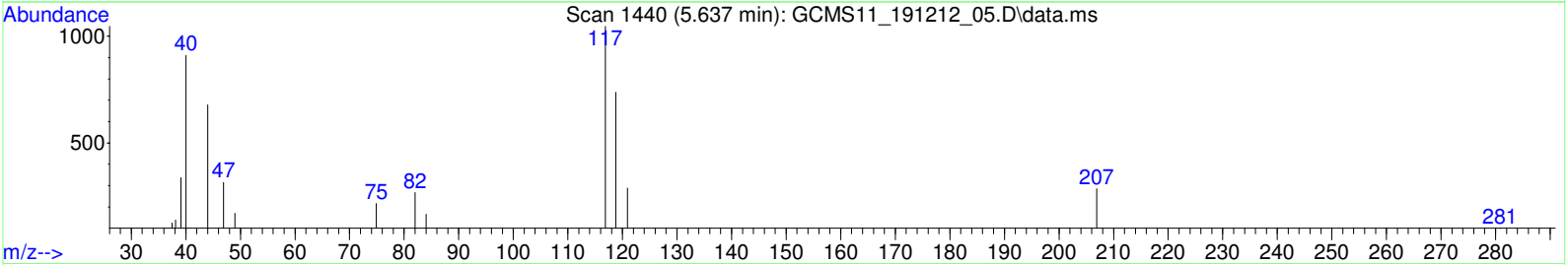
Ion	Ratio	Lower	Upper
180	100		
182	105.5	66.7	126.7
145	34.5	0.0	58.4

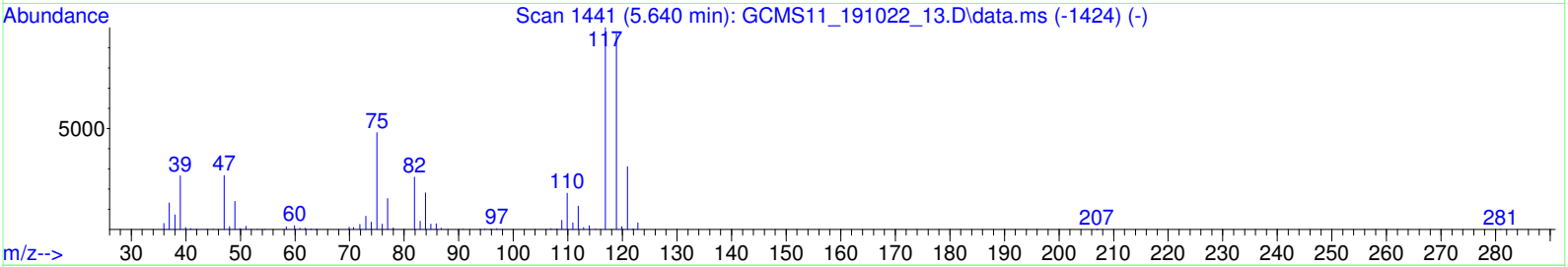


Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_05.D
Acq On : 12 Dec 2019 1:06 pm
Operator : ko
Sample : ICAL 1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 16:29:20 2019
Quant Method : D:\MKERR\METHODS\data processing\GCMS11_191104_8260_FULL LIST.M
Quant Title :
QLast Update : Mon Nov 04 14:22:20 2019
Response via : Initial Calibration







TIC: GCMS11_191212_05.D\data.ms

(24) Carbon tetrachloride (M)

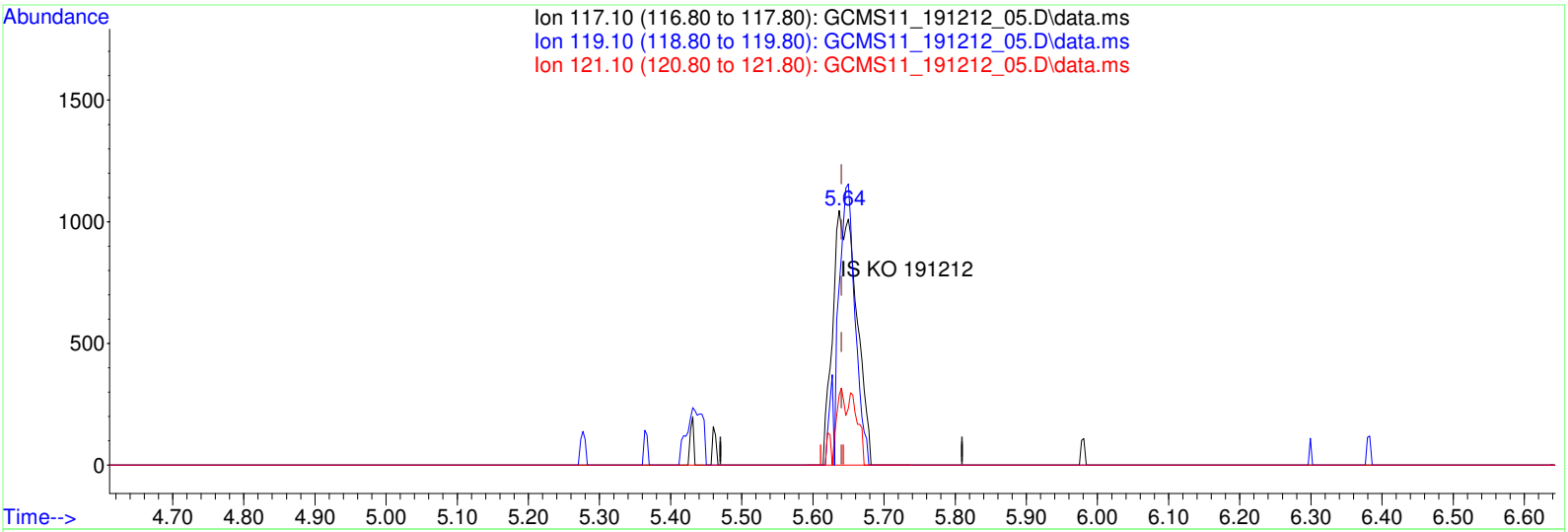
5.637min (-0.003) 2.13 ng

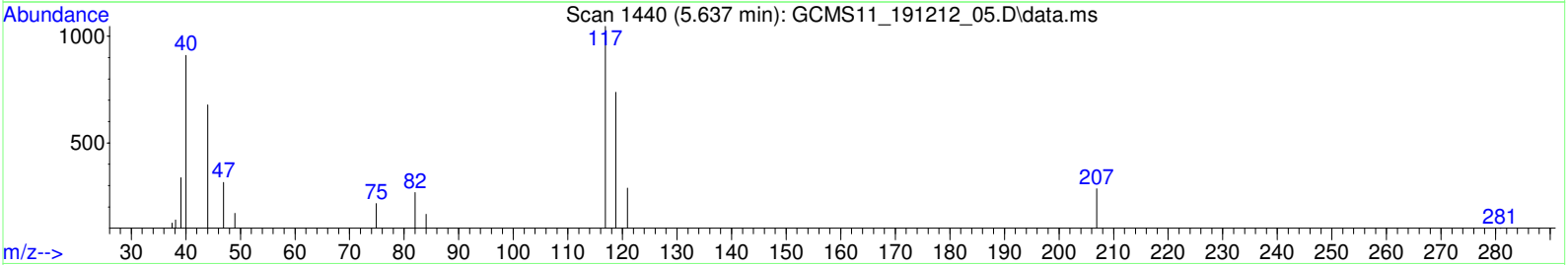
response 1167

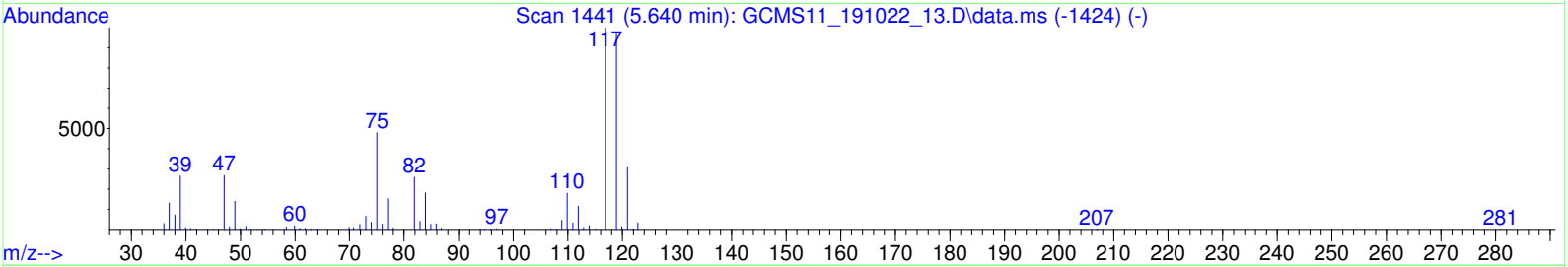
Ion	Exp%	Act%
117.10	100.00	100.00
119.10	97.60	0.00#
121.10	31.10	23.05
0.00	0.00	0.00

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_05.D
Acq On : 12 Dec 2019 1:06 pm
Operator : ko
Sample : ICAL 1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 12 16:29:20 2019
Quant Method : D:\MKERR\METHODS\data processing\GCMS11_191104_8260_FULL LIST.M
Quant Title :
QLast Update : Mon Nov 04 14:22:20 2019
Response via : Initial Calibration







TIC: GCMS11_191212_05.D\data.ms

(24) Carbon tetrachloride (M)

5.637min (-0.003) 4.47 ng m

response 2447

Ion	Exp%	Act%
117.10	100.00	100.00
119.10	97.60	0.00#
121.10	31.10	10.99
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_06.D
Acq On : 12 Dec 2019 1:35 pm
Operator : ko
Sample : ICAL 2
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 20 13:10:21 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.254	96	65812	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.440	82	25612	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.765	152	27278	50.00	ng	#	0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.453	113	18068	52.27	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.849	65	21162	51.37	ng		0.00
37) TOLUENE-D8	7.984	98	66817	51.62	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.617	95	23360	50.30	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.116	85	9141	29.87	ng		98
3) Chloromethane	1.254	50	9088	32.51	ng		95
4) Vinyl chloride	1.341	62	11638	32.84	ng		99
5) Bromomethane	1.595	96	6628	22.41	ng		96
6) Chloroethane	1.691	64	8240	31.81	ng		99
7) Trichlorofluoromethane	1.917	101	13459	29.45	ng		95
9) 1,1-Dichloroethene	2.412	96	8104	23.69	ng		97
12) Methylene chloride	2.961	84	11019	26.64	ng		95
14) trans-1,2-Dichloroethene	3.309	96	8948	23.24	ng		97
16) 1,1-Dichloroethane	3.910	63	15649	24.61	ng		98
17) 2,2-Dichloropropane	4.768	77	14000	26.64	ng		96
18) cis-1,2-Dichloroethene	4.788	96	9836	23.67	ng		94
20) Bromochloromethane	5.106	128	5099	22.57	ng		87
21) Chloroform	5.251	83	15655	24.70	ng		97
23) 1,1,1-Trichloroethane	5.437	97	13619	23.62	ng		98
24) Carbon tetrachloride	5.640	117	11585	22.36	ng		98
25) 1,1-Dichloropropene	5.656	75	10998	23.39	ng		86
27) Benzene	5.900	78	37511	23.51	ng		91
28) 1,2-Dichloroethane	5.939	62	13063	24.36	ng		98
29) Trichloroethene	6.672	95	9075	24.11	ng		95
30) 1,2-Dichloropropane	6.913	63	8538	24.14	ng		98
31) Dibromomethane	7.038	93	7090	24.62	ng		96
33) Bromodichloromethane	7.235	83	12206	24.45	ng		97
35) cis-1,3-Dichloropropene	7.717	75	12925	23.36	ng		94
38) Toluene	8.051	92	20355	22.81	ng		99
40) trans-1,3-Dichloropropene	8.305	75	12885	23.07	ng		94
41) 1,1,2-Trichloroethane	8.479	83	8052	25.07	ng		92
42) Tetrachloroethene	8.604	164	7748	24.03	ng		90
43) 1,3-Dichloropropane	8.643	76	14828	23.84	ng		98
45) Dibromochloromethane	8.865	129	11059	23.20	ng		97
46) 1,2-Dibromoethane (EDB)	8.964	107	9651	23.70	ng		100
47) Chlorobenzene	9.469	112	24620	22.38	ng		98
48) 1,1,1,2-Tetrachloroethane	9.563	131	9866	23.29	ng		97
49) Ethylbenzene	9.595	106	13063	23.04	ng		97
50) m+p-Xylene	9.714	106	31307	43.65	ng		99
51) o-Xylene	10.106	106	14666	21.16	ng		94
52) Styrene	10.119	103	14182	21.64	ng		95
53) Bromoform	10.286	173	7319	21.21	ng	#	98
54) Isopropylbenzene	10.479	105	40491	22.13	ng		95
56) Bromobenzene	10.759	156	11118	23.15	ng		98
57) 1,2,3-Trichloropropane	10.813	75	9840	23.38	ng		96

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_06.D
Acq On : 12 Dec 2019 1:35 pm
Operator : ko
Sample : ICAL 2
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 20 13:10:21 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

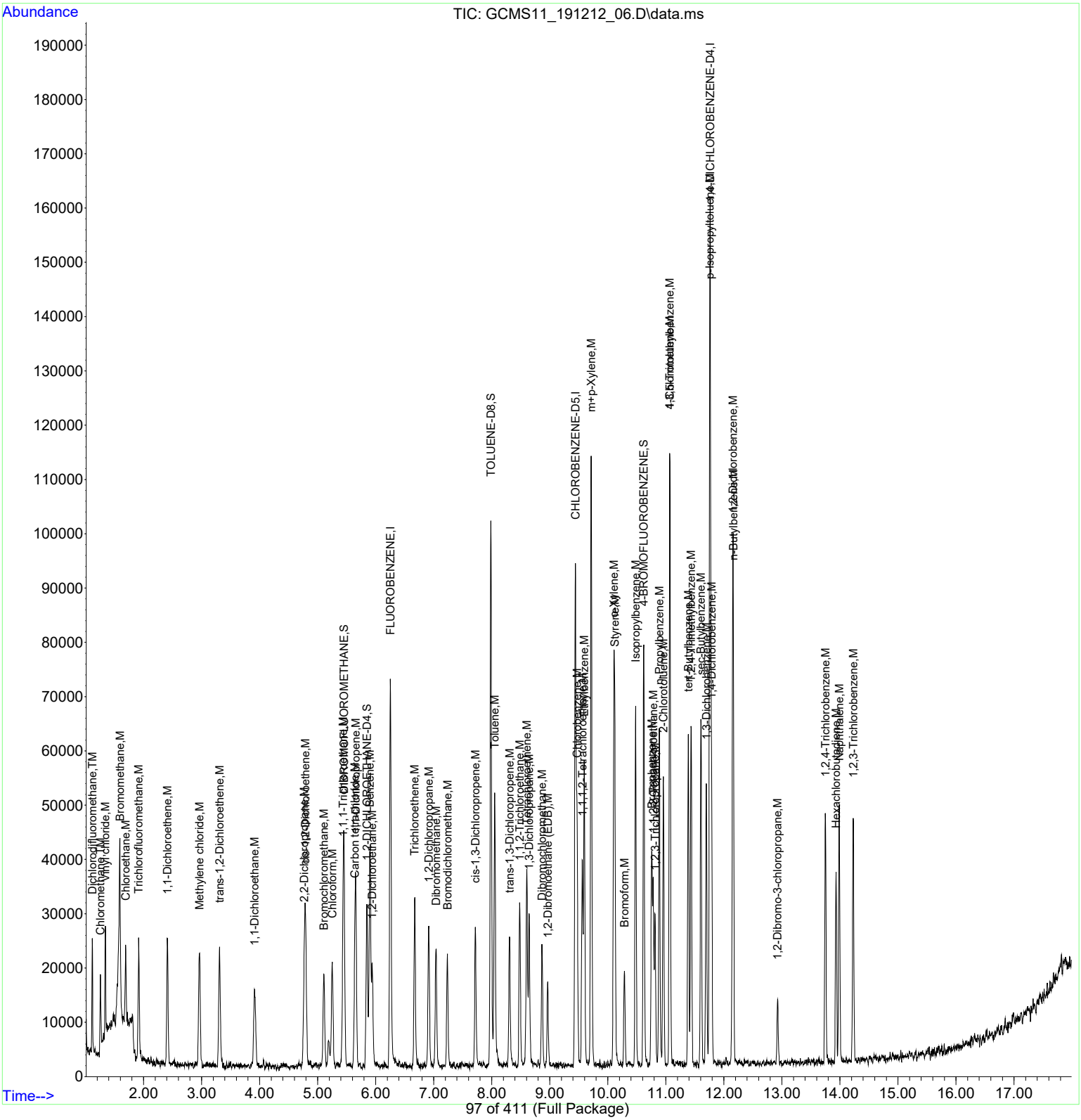
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
58) n-Propylbenzene	10.887	91	44989	21.87 ng		97
59) 2-Chlorotoluene	10.958	91	26895	22.37 ng		98
60) 1,3,5-Trimethylbenzene	11.067	105	31286	21.00 ng		94
61) 4-Chlorotoluene	11.067	91	30926	22.05 ng		98
63) 1,1,2,2-Tetrachloroethane	10.781	83	12257	25.04 ng		96
64) tert-Butylbenzene	11.389	119	29165	24.23 ng		99
65) 1,2,4-Trimethylbenzene	11.434	105	32680	22.20 ng		98
66) sec-Butylbenzene	11.604	105	40206	22.26 ng		98
67) 1,3-Dichlorobenzene	11.697	146	19750	23.45 ng		98
68) p-Isopropyltoluene	11.755	119	34173	21.61 ng		97
69) 1,4-Dichlorobenzene	11.787	146	19841	23.14 ng		95
70) 1,2-Dichlorobenzene	12.154	146	21497	23.61 ng		96
71) n-Butylbenzene	12.164	91	31164	22.16 ng		99
72) 1,2-Dibromo-3-chloropr...	12.922	155	2282	24.40 ng		88
73) 1,2,4-Trichlorobenzene	13.752	180	15078	24.55 ng		94
74) Hexachlorobutadiene	13.932	225	6516	22.77 ng	#	1
75) Naphthalene	13.987	128	35537	22.59 ng		99
76) 1,2,3-Trichlorobenzene	14.231	180	13381	20.64 ng		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_06.D
Acq On : 12 Dec 2019 1:35 pm
Operator : ko
Sample : ICAL 2
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 20 13:10:21 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_07.D
Acq On : 12 Dec 2019 2:03 pm
Operator : ko
Sample : ICAL 3
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 20 13:11:37 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.251	96	66983	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.440	82	22925	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.765	152	25718	50.00	ng	#	0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.450	113	16495	46.89	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.846	65	20658	49.27	ng		0.00
37) TOLUENE-D8	7.984	98	65060	49.39	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.620	95	22202	53.41	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.116	85	18164	58.32	ng		96
3) Chloromethane	1.254	50	16242	57.08	ng		95
4) Vinyl chloride	1.341	62	21178	58.72	ng		96
5) Bromomethane	1.595	96	15681	52.10	ng		99
6) Chloroethane	1.685	64	14698	55.74	ng		99
7) Trichlorofluoromethane	1.913	101	26820	57.65	ng		96
9) 1,1-Dichloroethene	2.408	96	18016	51.75	ng		98
12) Methylene chloride	2.958	84	21768	51.71	ng		99
14) trans-1,2-Dichloroethene	3.306	96	19705	50.28	ng		97
16) 1,1-Dichloroethane	3.913	63	35590	54.99	ng		99
17) 2,2-Dichloropropane	4.769	77	29026	54.27	ng		98
18) cis-1,2-Dichloroethene	4.791	96	22316	52.76	ng		96
20) Bromochloromethane	5.106	128	12852	55.90	ng		96
21) Chloroform	5.251	83	34744	53.85	ng		99
23) 1,1,1-Trichloroethane	5.437	97	30443	51.87	ng		97
24) Carbon tetrachloride	5.643	117	26866	50.95	ng		98
25) 1,1-Dichloropropene	5.656	75	23671	49.46	ng		92
27) Benzene	5.904	78	81514	50.20	ng		91
28) 1,2-Dichloroethane	5.939	62	28284	51.83	ng		99
29) Trichloroethene	6.672	95	19870	51.86	ng		97
30) 1,2-Dichloropropane	6.910	63	19252	53.47	ng		98
31) Dibromomethane	7.039	93	15529	52.98	ng		96
33) Bromodichloromethane	7.235	83	26613	52.37	ng		97
35) cis-1,3-Dichloropropene	7.717	75	28237	50.15	ng		94
38) Toluene	8.051	92	46077	50.73	ng		95
40) trans-1,3-Dichloropropene	8.305	75	27802	55.62	ng		96
41) 1,1,2-Trichloroethane	8.482	83	16471	57.30	ng		96
42) Tetrachloroethene	8.604	164	16762	58.08	ng		99
43) 1,3-Dichloropropane	8.643	76	31832	57.18	ng		97
45) Dibromochloromethane	8.868	129	23496	55.07	ng		97
46) 1,2-Dibromoethane (EDB)	8.964	107	19730	54.14	ng		98
47) Chlorobenzene	9.469	112	55348	56.21	ng		99
48) 1,1,1,2-Tetrachloroethane	9.559	131	22125	58.34	ng		95
49) Ethylbenzene	9.595	106	28937	57.02	ng		99
50) m+p-Xylene	9.714	106	71806	111.84	ng		98
51) o-Xylene	10.103	106	35282	56.88	ng		95
52) Styrene	10.122	103	30870	52.62	ng		100
53) Bromoform	10.289	173	15717	50.88	ng	#	97
54) Isopropylbenzene	10.479	105	93050	56.82	ng		99
56) Bromobenzene	10.755	156	25562	59.45	ng		95
57) 1,2,3-Trichloropropane	10.813	75	21523	57.14	ng		99

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_07.D
Acq On : 12 Dec 2019 2:03 pm
Operator : ko
Sample : ICAL 3
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 20 13:11:37 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

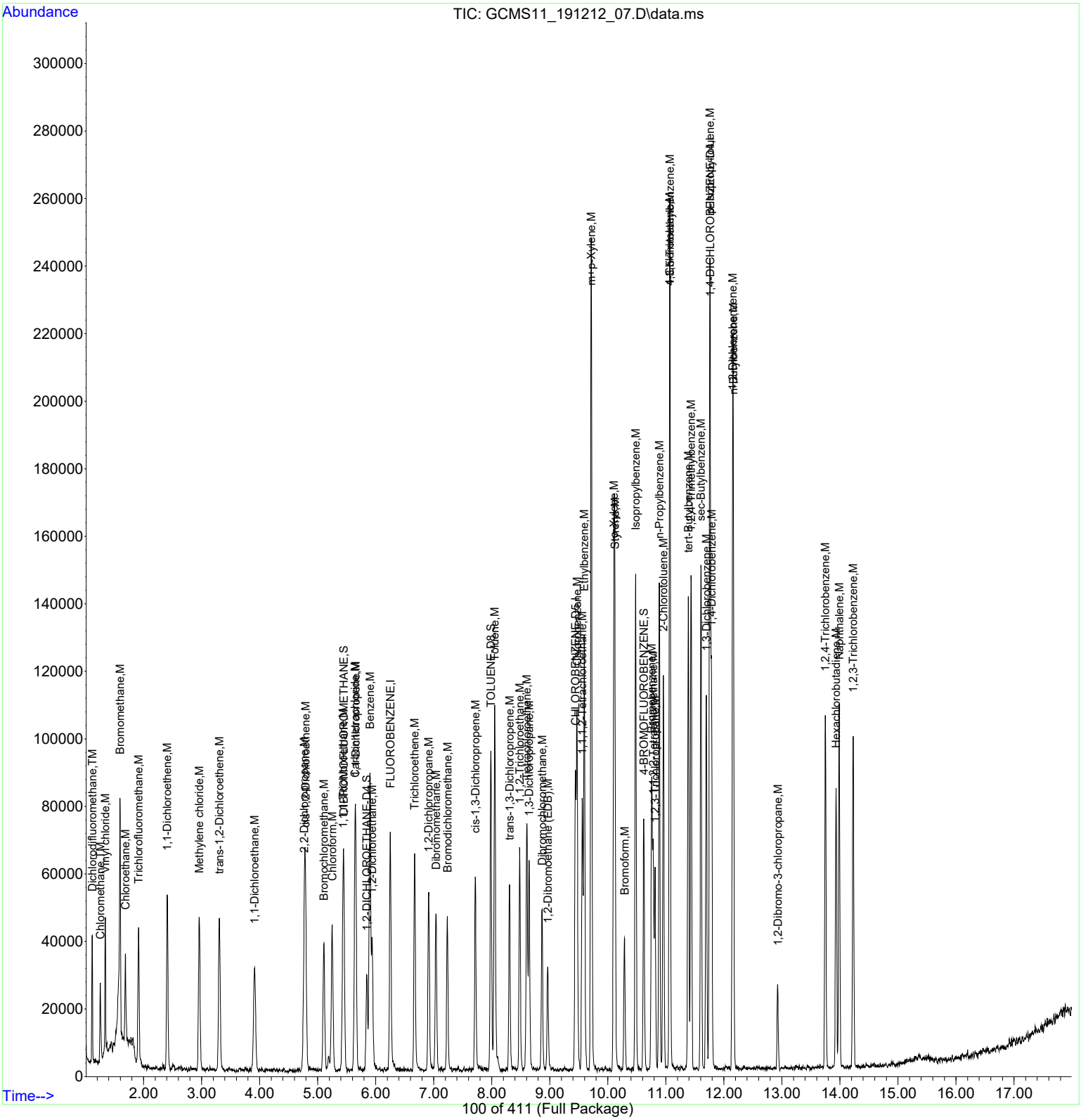
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) n-Propylbenzene	10.887	91	105541	57.31	ng		98
59) 2-Chlorotoluene	10.958	91	59712	55.48	ng		99
60) 1,3,5-Trimethylbenzene	11.070	105	71405	53.54	ng		99
61) 4-Chlorotoluene	11.067	91	68876	54.86	ng		99
63) 1,1,2,2-Tetrachloroethane	10.781	83	27500	59.58	ng		97
64) tert-Butylbenzene	11.389	119	66022	58.18	ng		98
65) 1,2,4-Trimethylbenzene	11.434	105	78071	56.25	ng		98
66) sec-Butylbenzene	11.604	105	94045	55.22	ng		100
67) 1,3-Dichlorobenzene	11.697	146	45539	57.35	ng		97
68) p-Isopropyltoluene	11.759	119	83460	55.97	ng		99
69) 1,4-Dichlorobenzene	11.788	146	45408	56.18	ng		97
70) 1,2-Dichlorobenzene	12.151	146	48788	56.82	ng		98
71) n-Butylbenzene	12.164	91	71774	54.13	ng		100
72) 1,2-Dibromo-3-chloropr...	12.929	155	5413	61.40	ng		81
73) 1,2,4-Trichlorobenzene	13.749	180	31357	54.15	ng		94
74) Hexachlorobutadiene	13.935	225	14757	54.69	ng	#	1
75) Naphthalene	13.987	128	81702	55.09	ng		99
76) 1,2,3-Trichlorobenzene	14.228	180	31955	52.72	ng		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_07.D
Acq On : 12 Dec 2019 2:03 pm
Operator : ko
Sample : ICAL 3
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 20 13:11:37 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_08.D
Acq On : 12 Dec 2019 2:31 pm
Operator : ko
Sample : ICAL 4
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 13:12:33 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.257	96	71619	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.440	82	27488	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.765	152	29568	50.00	ng		0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.460	113	19161	50.94	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.852	65	22927	51.14	ng		0.00
37) TOLUENE-D8	7.984	98	69700	49.48	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.620	95	24086	48.33	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.126	85	45838	137.64	ng		100
3) Chloromethane	1.264	50	40087	131.76	ng		100
4) Vinyl chloride	1.351	62	51614	133.84	ng		100
5) Bromomethane	1.605	96	41048	127.55	ng		100
6) Chloroethane	1.695	64	36630	129.93	ng		100
7) Trichlorofluoromethane	1.923	101	64985	130.65	ng		100
9) 1,1-Dichloroethene	2.418	96	45190	121.40	ng		100
12) Methylene chloride	2.971	84	52758	117.21	ng		100
14) trans-1,2-Dichloroethene	3.318	96	49796	118.83	ng		100
16) 1,1-Dichloroethane	3.923	63	85874	124.10	ng		100
17) 2,2-Dichloropropane	4.781	77	71767	125.49	ng		100
18) cis-1,2-Dichloroethene	4.801	96	56470	124.86	ng		100
20) Bromochloromethane	5.116	128	30547	124.26	ng		100
21) Chloroform	5.257	83	86901	125.97	ng		100
23) 1,1,1-Trichloroethane	5.444	97	77877	124.10	ng		100
24) Carbon tetrachloride	5.650	117	68432	121.37	ng		100
25) 1,1-Dichloropropene	5.662	75	61977	121.13	ng		100
27) Benzene	5.907	78	212864	122.61	ng		100
28) 1,2-Dichloroethane	5.942	62	70976	121.65	ng		100
29) Trichloroethene	6.675	95	49120	119.90	ng		100
30) 1,2-Dichloropropane	6.920	63	46467	120.71	ng		100
31) Dibromomethane	7.042	93	37716	120.36	ng		100
33) Bromodichloromethane	7.238	83	67523	124.28	ng		100
35) cis-1,3-Dichloropropene	7.720	75	75823	125.94	ng		100
38) Toluene	8.055	92	114961	118.38	ng		100
40) trans-1,3-Dichloropropene	8.305	75	72803	121.48	ng		100
41) 1,1,2-Trichloroethane	8.482	83	40669	118.00	ng		100
42) Tetrachloroethene	8.604	164	43832	126.67	ng		98
43) 1,3-Dichloropropane	8.646	76	79747	119.46	ng		100
45) Dibromochloromethane	8.868	129	61127	119.49	ng		100
46) 1,2-Dibromoethane (EDB)	8.965	107	52428	119.98	ng		100
47) Chlorobenzene	9.469	112	138844	117.60	ng		100
48) 1,1,1,2-Tetrachloroethane	9.559	131	52946	116.44	ng		100
49) Ethylbenzene	9.595	106	72513	119.17	ng		100
50) m+p-Xylene	9.714	106	179861	233.64	ng		100
51) o-Xylene	10.103	106	85131	114.47	ng		100
52) Styrene	10.122	103	79878	113.55	ng		100
53) Bromoform	10.286	173	43703	117.99	ng	#	99
54) Isopropylbenzene	10.479	105	229503	116.89	ng		100
56) Bromobenzene	10.755	156	61821	119.92	ng		100
57) 1,2,3-Trichloropropane	10.813	75	54761	121.24	ng		100

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_08.D
Acq On : 12 Dec 2019 2:31 pm
Operator : ko
Sample : ICAL 4
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 13:12:33 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

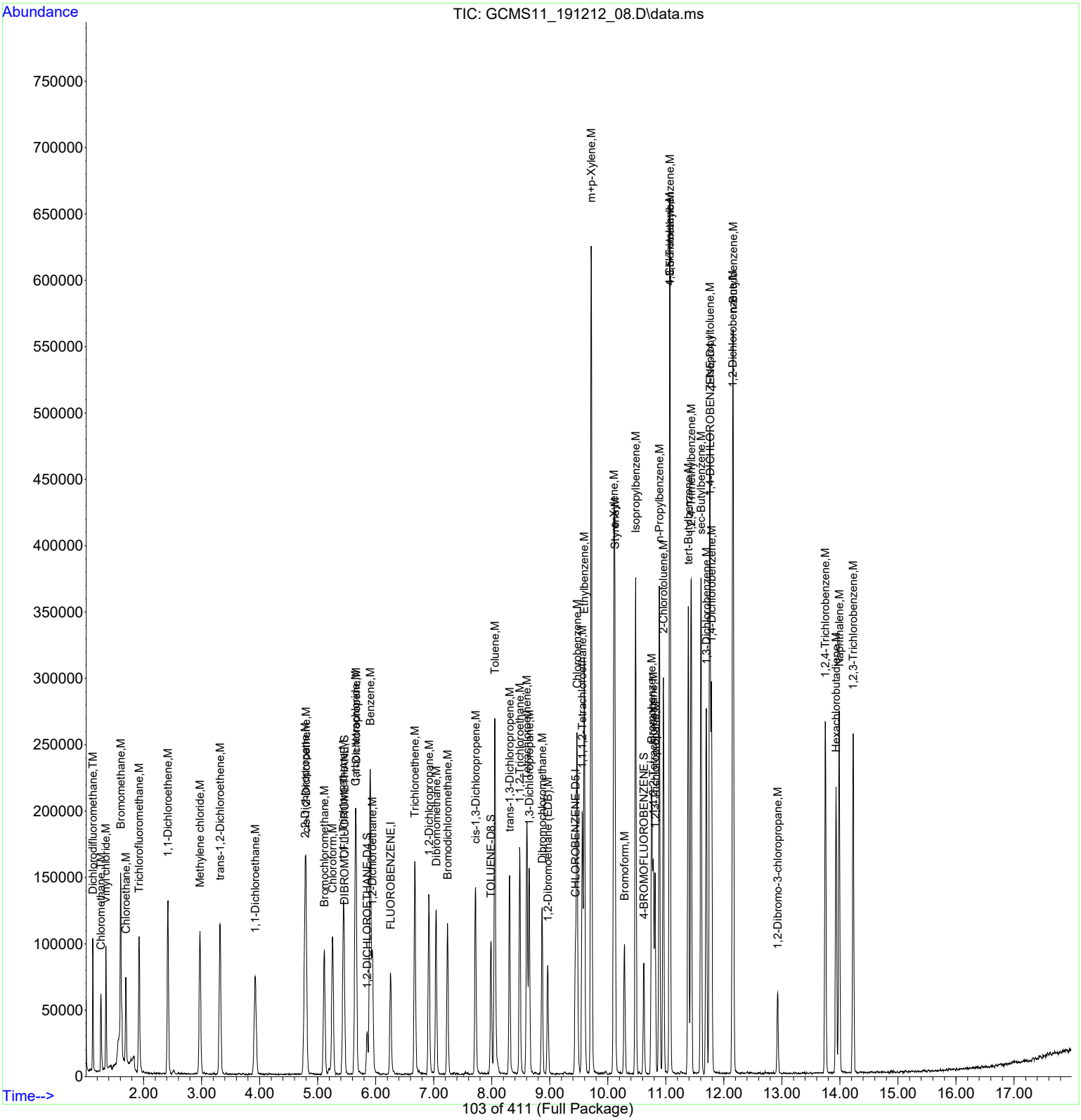
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58)	n-Propylbenzene	10.887	91	263351	119.26	ng		100
59)	2-Chlorotoluene	10.958	91	153299	118.80	ng		100
60)	1,3,5-Trimethylbenzene	11.071	105	185221	115.82	ng		100
61)	4-Chlorotoluene	11.067	91	176286	117.10	ng		100
63)	1,1,2,2-Tetrachloroethane	10.784	83	66953	126.17	ng		100
64)	tert-Butylbenzene	11.389	119	170782	130.89	ng		100
65)	1,2,4-Trimethylbenzene	11.437	105	195368	122.44	ng		100
66)	sec-Butylbenzene	11.608	105	248837	127.09	ng		100
67)	1,3-Dichlorobenzene	11.698	146	110909	121.48	ng		100
68)	p-Isopropyltoluene	11.759	119	213180	124.35	ng		100
69)	1,4-Dichlorobenzene	11.788	146	117053	125.95	ng		100
70)	1,2-Dichlorobenzene	12.151	146	119142	120.70	ng		100
71)	n-Butylbenzene	12.161	91	188524	123.67	ng		100
72)	1,2-Dibromo-3-chloropr...	12.926	155	12153	119.90	ng		100
73)	1,2,4-Trichlorobenzene	13.749	180	81856	122.95	ng		100
74)	Hexachlorobutadiene	13.935	225	41482	133.72	ng	#	1
75)	Naphthalene	13.987	128	212123	124.42	ng		100
76)	1,2,3-Trichlorobenzene	14.228	180	79385	115.89	ng		99

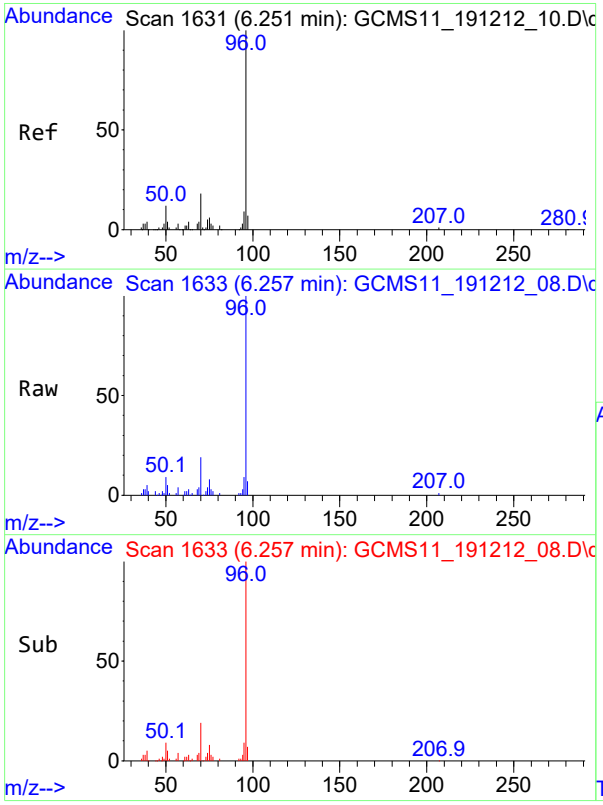
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_08.D
Acq On : 12 Dec 2019 2:31 pm
Operator : ko
Sample : ICAL 4
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 20 13:12:33 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

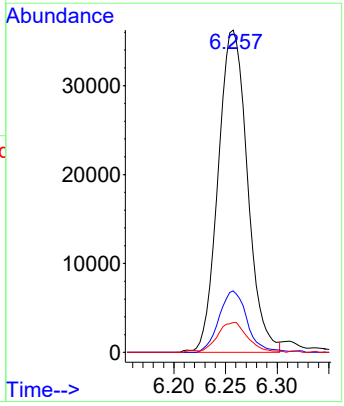


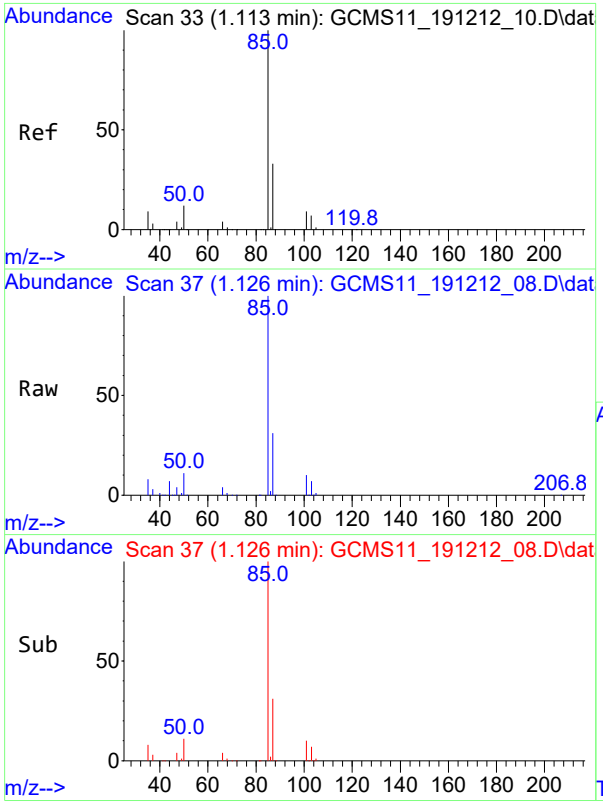


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.257 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 96 Resp: 71619

Ion	Ratio	Lower	Upper
96	100		
70	18.3	0.0	48.3
50	9.5	0.0	39.5

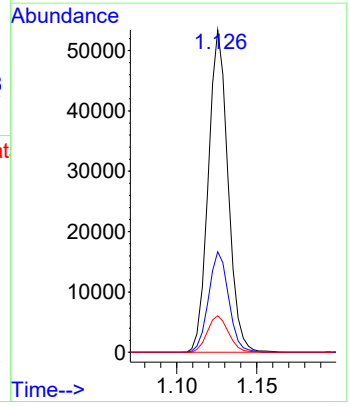


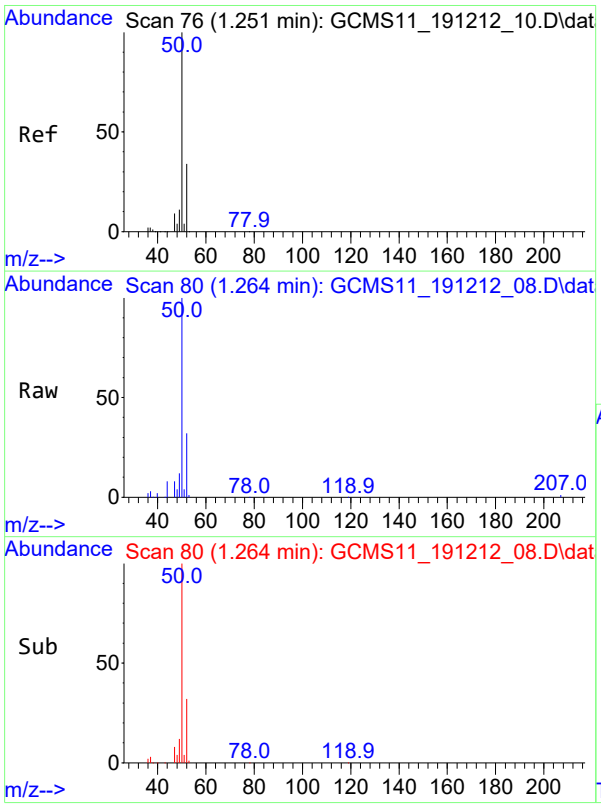


#2
Dichlorodifluoromethane
Concen: 137.64 ng
RT: 1.126 min Scan# 37
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 85 Resp: 45838

Ion	Ratio	Lower	Upper
85	100		
87	31.8	1.8	61.8
50	12.2	0.0	42.2

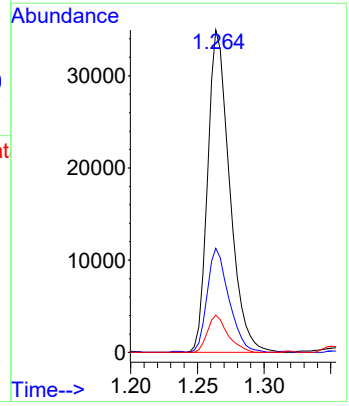


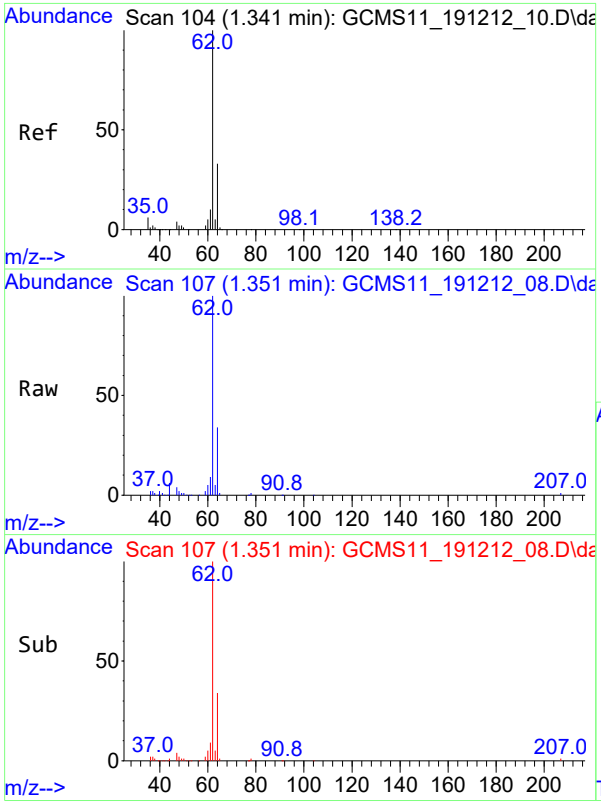


#3
Chloromethane
Concen: 131.76 ng
RT: 1.264 min Scan# 80
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 50 Resp: 40087

Ion	Ratio	Lower	Upper
50	100		
52	32.0	2.0	62.0
49	10.7	0.0	40.7

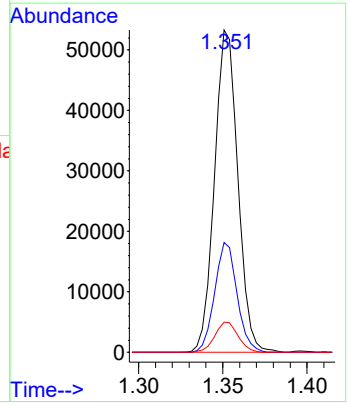


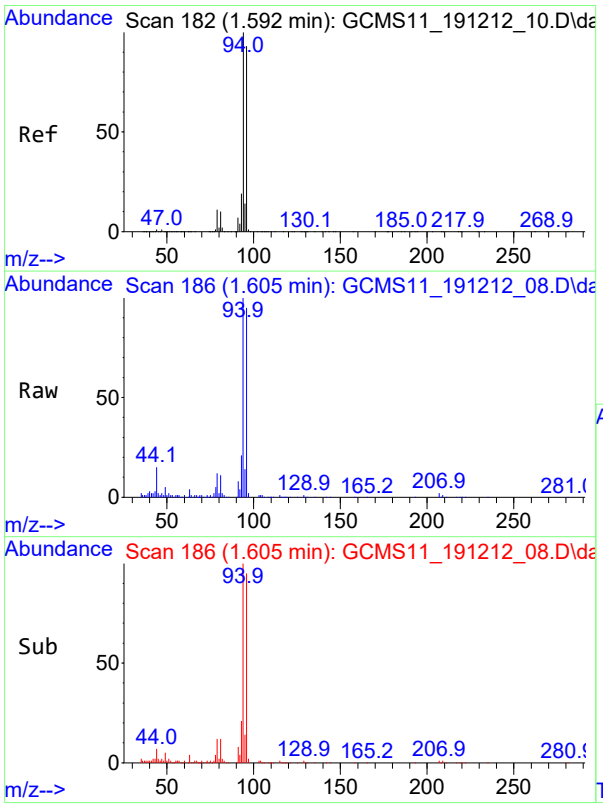


#4
Vinyl chloride
Concen: 133.84 ng
RT: 1.351 min Scan# 107
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 62 Resp: 51614

Ion	Ratio	Lower	Upper
62	100		
64	32.7	2.7	62.7
61	9.4	0.0	39.4

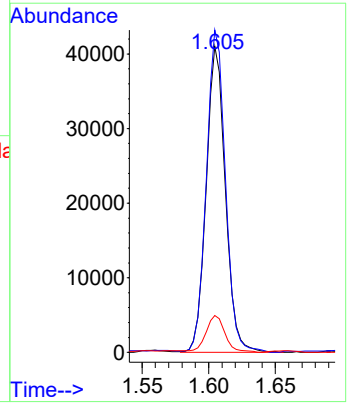


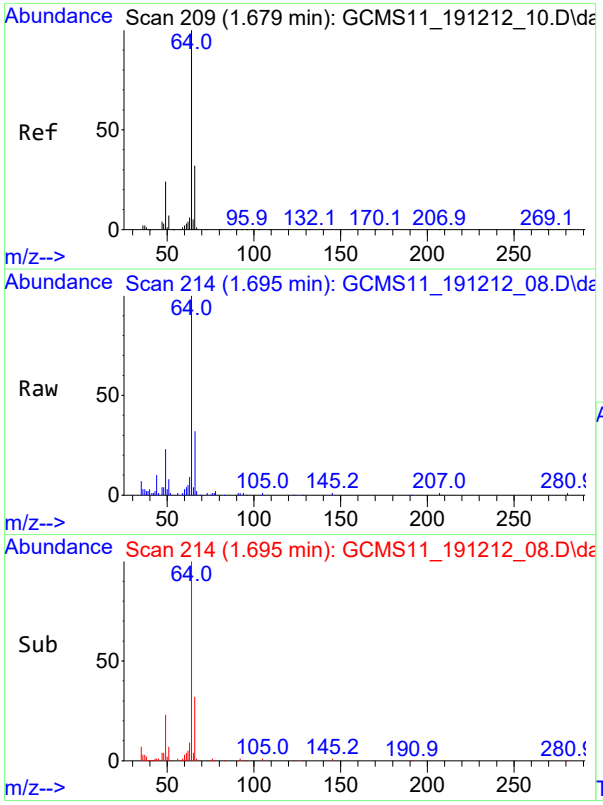


#5
Bromomethane
Concen: 127.55 ng
RT: 1.605 min Scan# 186
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 96 Resp: 41048

Ion	Ratio	Lower	Upper
96	100		
94	104.8	74.8	134.8
81	12.0	0.0	42.0

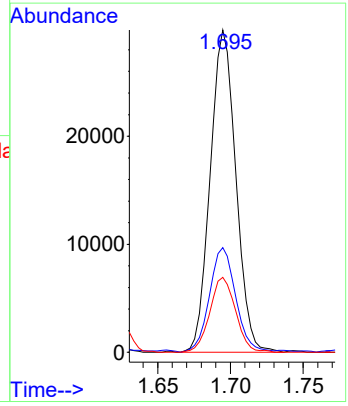


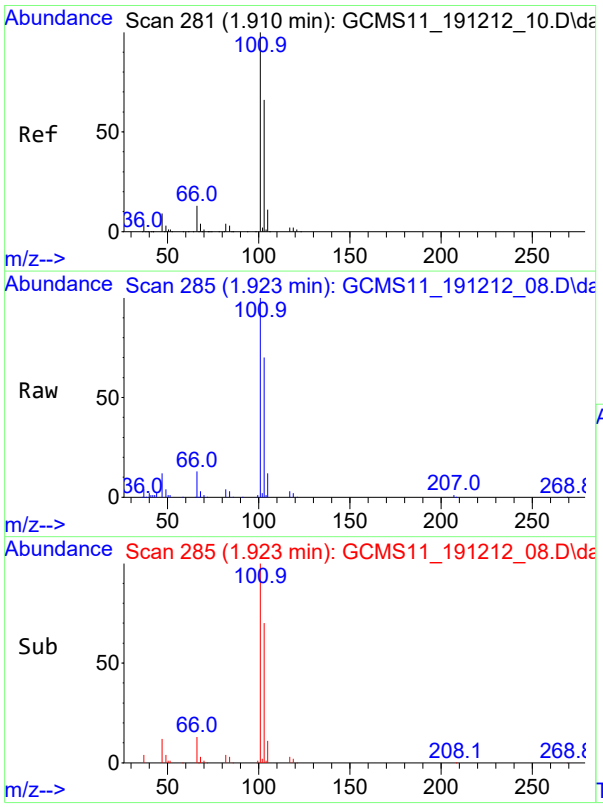


#6
Chloroethane
Concen: 129.93 ng
RT: 1.695 min Scan# 214
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 64 Resp: 36630

Ion	Ratio	Lower	Upper
64	100		
66	33.3	3.3	63.3
49	23.4	0.0	53.3

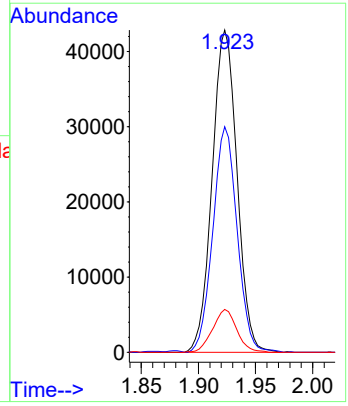


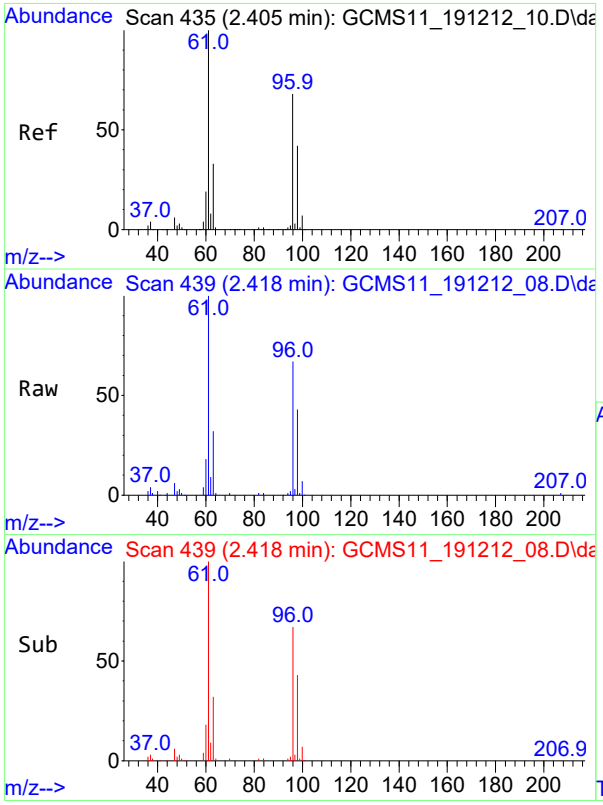


#7
Trichlorofluoromethane
Concen: 130.65 ng
RT: 1.923 min Scan# 285
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:101 Resp: 64985

Ion	Ratio	Lower	Upper
101	100		
103	68.4	38.4	98.4
66	13.0	0.0	43.0

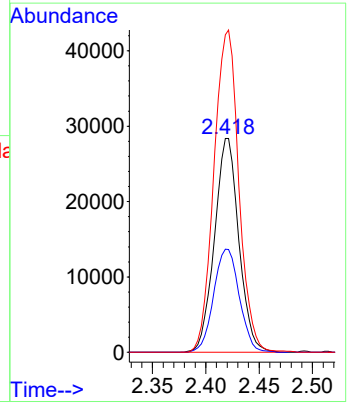


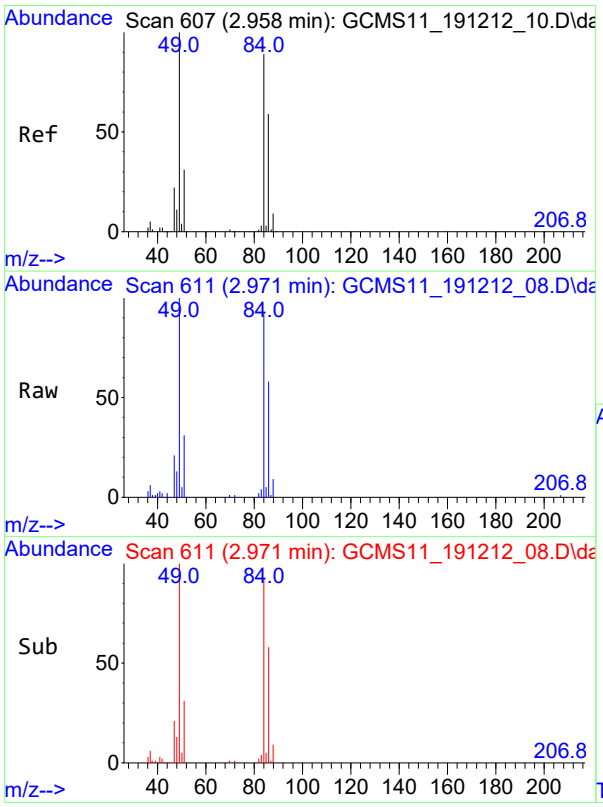


#9
1,1-Dichloroethene
Concen: 121.40 ng
RT: 2.418 min Scan# 439
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 96 Resp: 45190

Ion	Ratio	Lower	Upper
96	100		
63	50.6	20.7	80.7
61	153.8	123.9	183.9

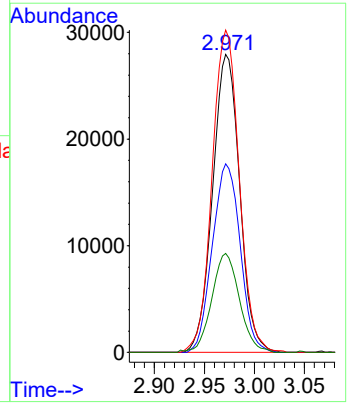


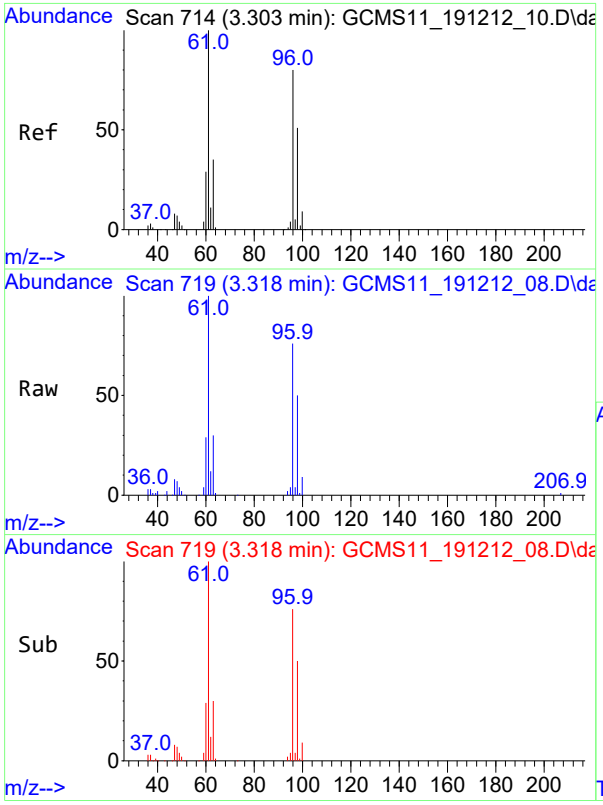


#12
Methylene chloride
Concen: 117.21 ng
RT: 2.971 min Scan# 611
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 84 Resp: 52758

Ion	Ratio	Lower	Upper
84	100		
86	65.2	35.2	95.2
49	108.3	78.3	138.3
51	34.0	4.0	64.0

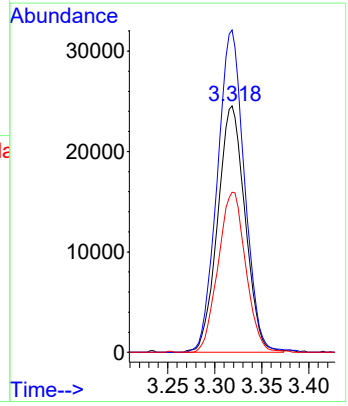


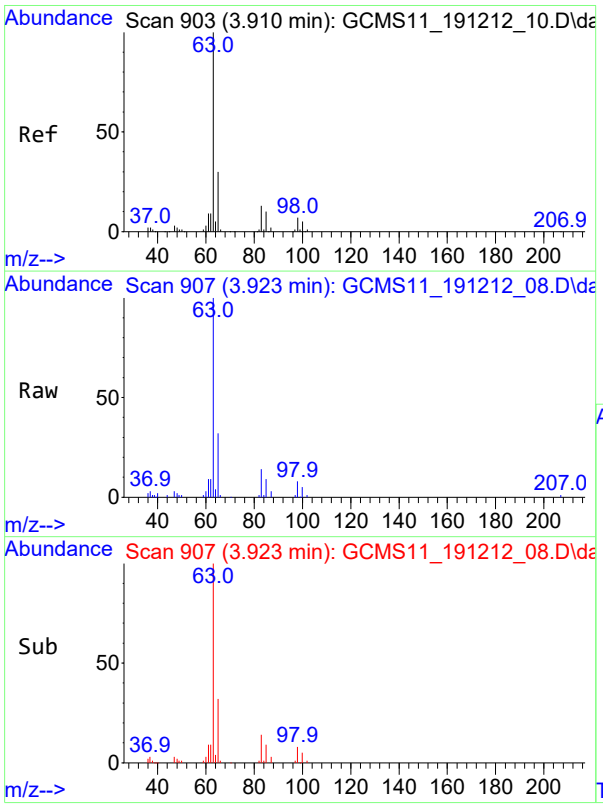


#14
trans-1,2-Dichloroethene
Concen: 118.83 ng
RT: 3.318 min Scan# 719
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 96 Resp: 49796

Ion	Ratio	Lower	Upper
96	100		
61	129.5	99.6	159.6
98	65.3	35.3	95.3

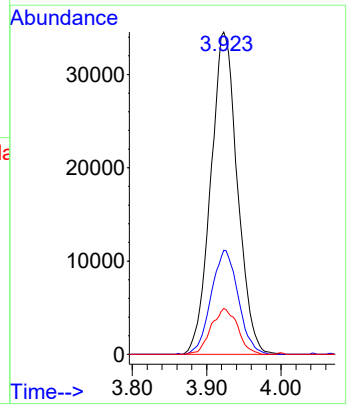


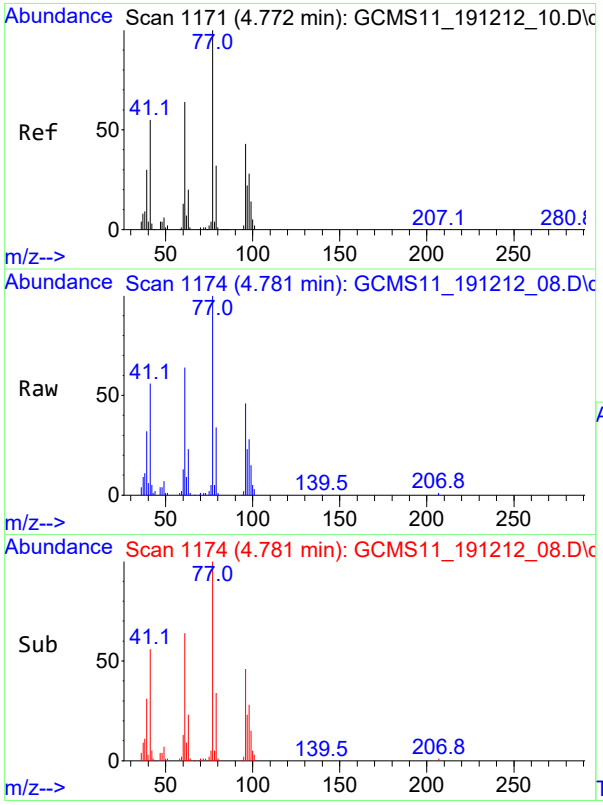


#16
1,1-Dichloroethane
Concen: 124.10 ng
RT: 3.923 min Scan# 907
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 63 Resp: 85874

Ion	Ratio	Lower	Upper
63	100		
65	32.8	2.8	62.8
83	14.3	0.0	44.3

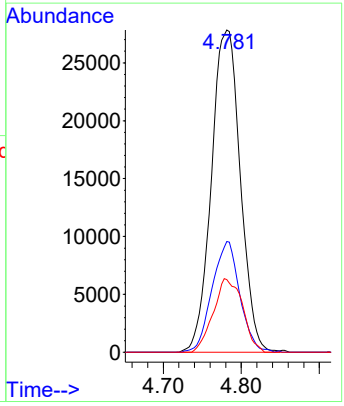


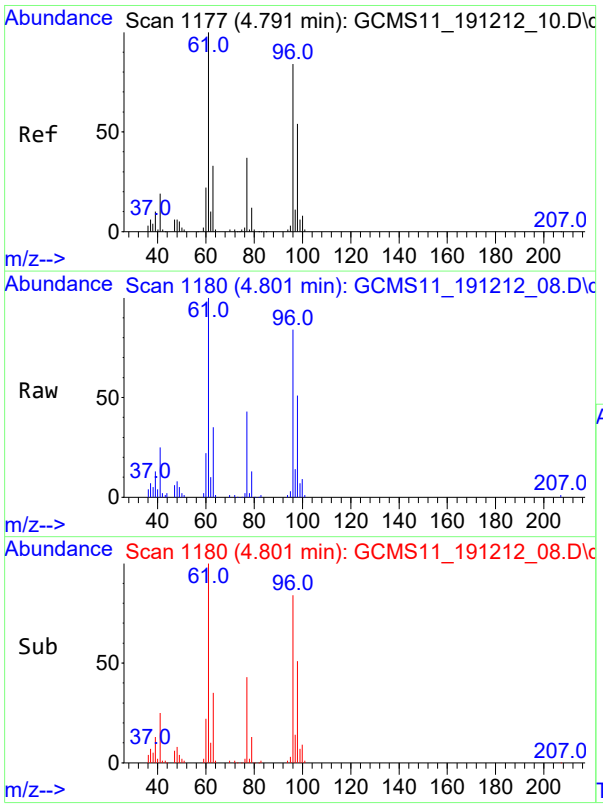


#17
2,2-Dichloropropane
Concen: 125.49 ng
RT: 4.781 min Scan# 1174
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 77 Resp: 71767

Ion	Ratio	Lower	Upper
77	100		
79	33.0	3.0	63.0
97	23.2	0.0	53.2

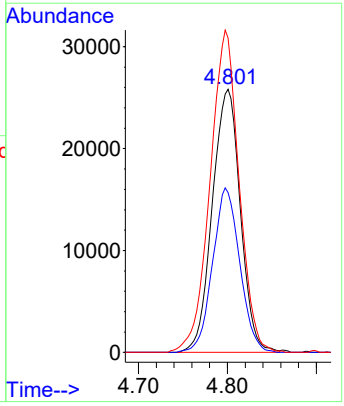


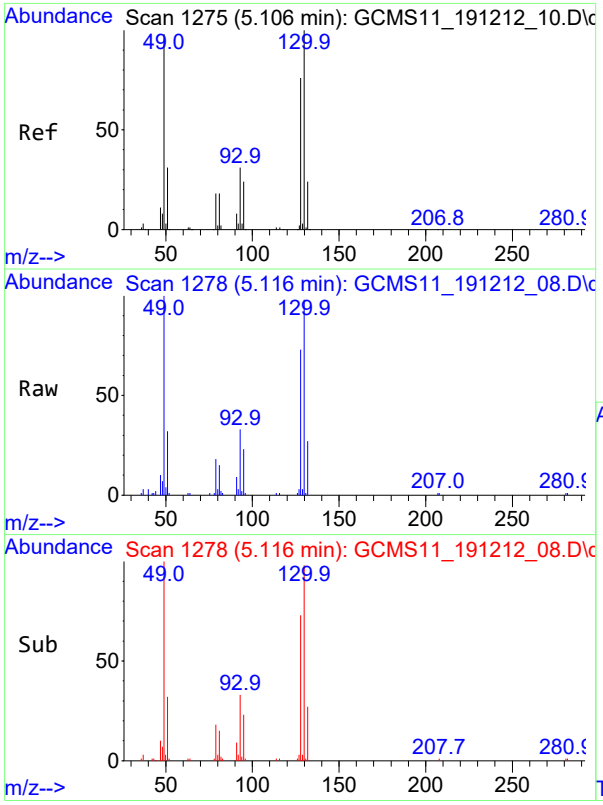


#18
cis-1,2-Dichloroethene
Concen: 124.86 ng
RT: 4.801 min Scan# 1180
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 96 Resp: 56470

Ion	Ratio	Lower	Upper
96	100		
98	60.6	30.6	90.6
61	126.6	96.6	156.6

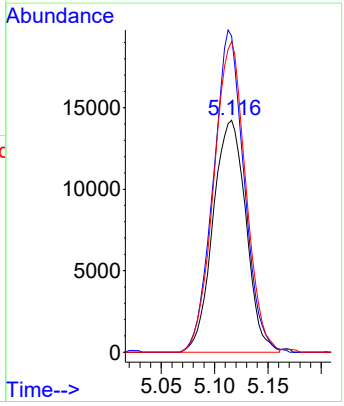


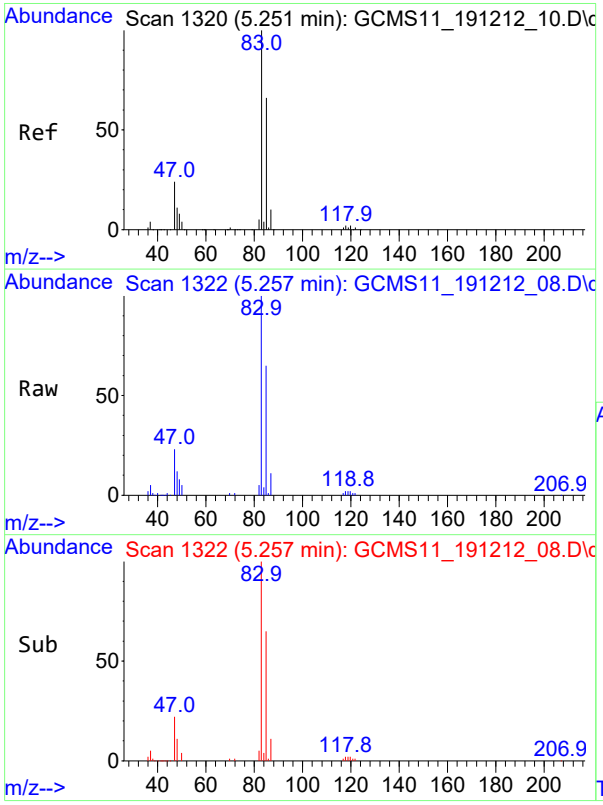


#20
Bromochloromethane
Concen: 124.26 ng
RT: 5.116 min Scan# 1278
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:128 Resp: 30547

Ion	Ratio	Lower	Upper
128	100		
49	129.4	99.5	159.5
130	130.0	99.8	159.8

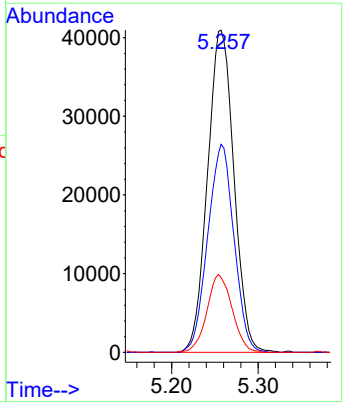


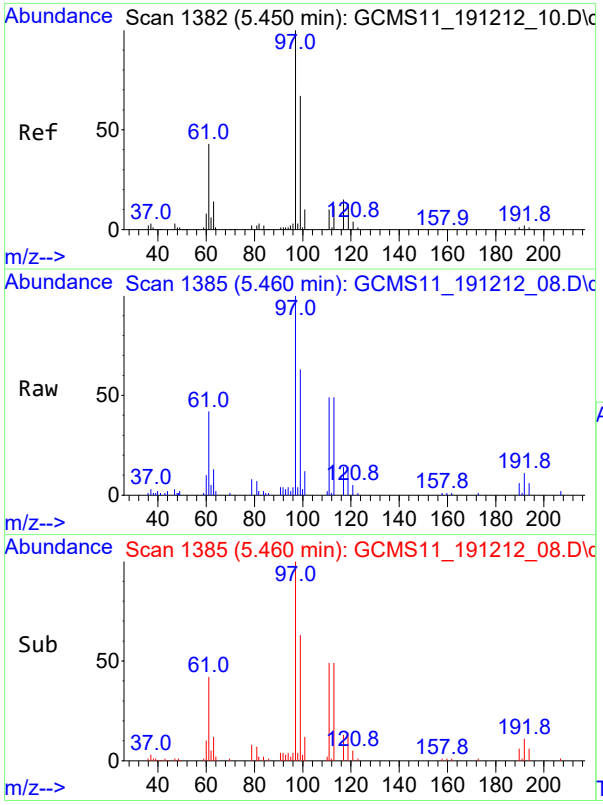


#21
Chloroform
Concen: 125.97 ng
RT: 5.257 min Scan# 1322
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 83 Resp: 86901

Ion	Ratio	Lower	Upper
83	100		
85	64.1	34.2	94.2
47	23.2	0.0	53.2

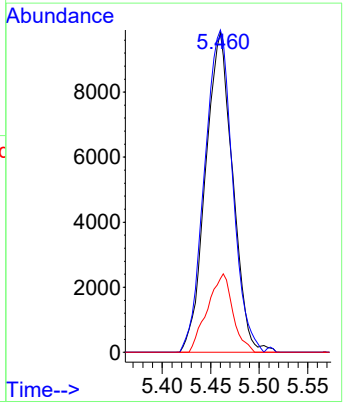


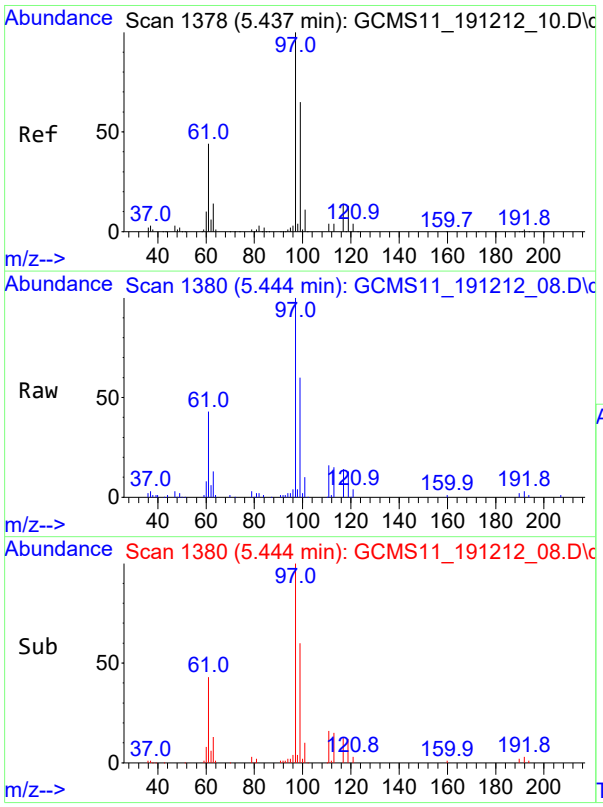


#22
DIBROMOFLUOROMETHANE
Concen: 50.94 ng
RT: 5.460 min Scan# 1385
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:113 Resp: 19161

Ion	Ratio	Lower	Upper
113	100		
111	103.9	75.2	135.2
192	22.9	0.0	52.1

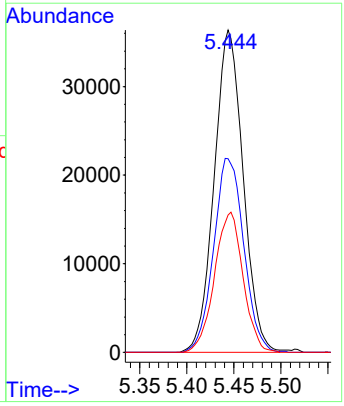


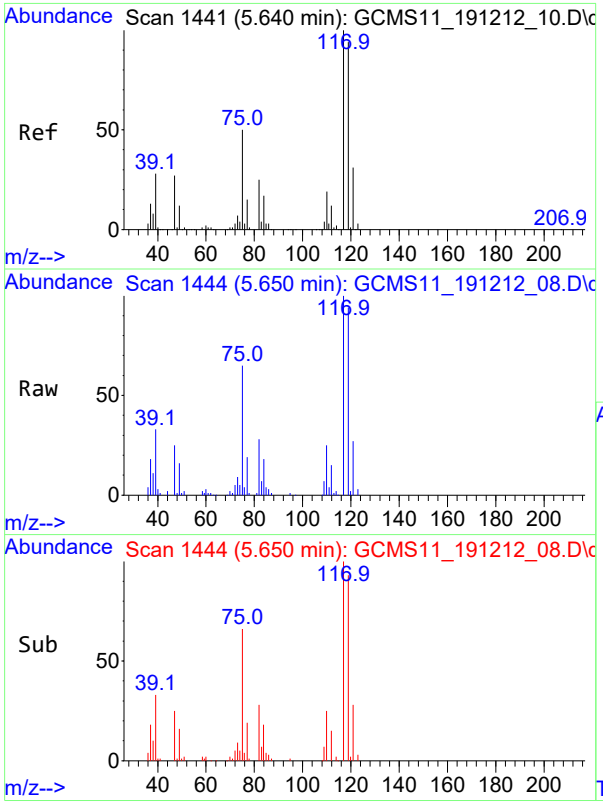


#23
1,1,1-Trichloroethane
Concen: 124.10 ng
RT: 5.444 min Scan# 1380
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 97 Resp: 77877

Ion	Ratio	Lower	Upper
97	100		
99	62.7	32.7	92.7
61	43.0	13.1	73.1

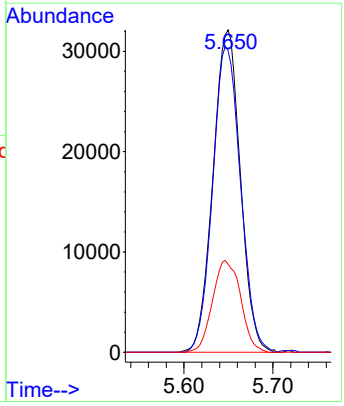


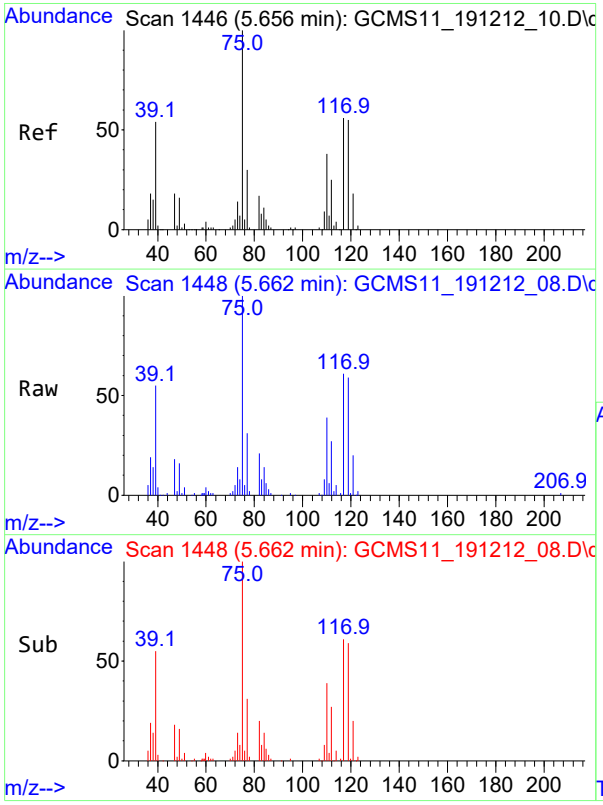


#24
Carbon tetrachloride
Concen: 121.37 ng
RT: 5.650 min Scan# 1444
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:117 Resp: 68432

Ion	Ratio	Lower	Upper
117	100		
119	96.6	66.6	126.6
121	29.3	0.0	59.5

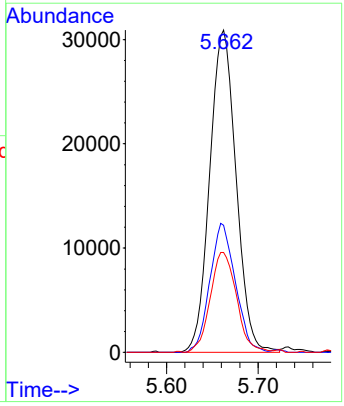


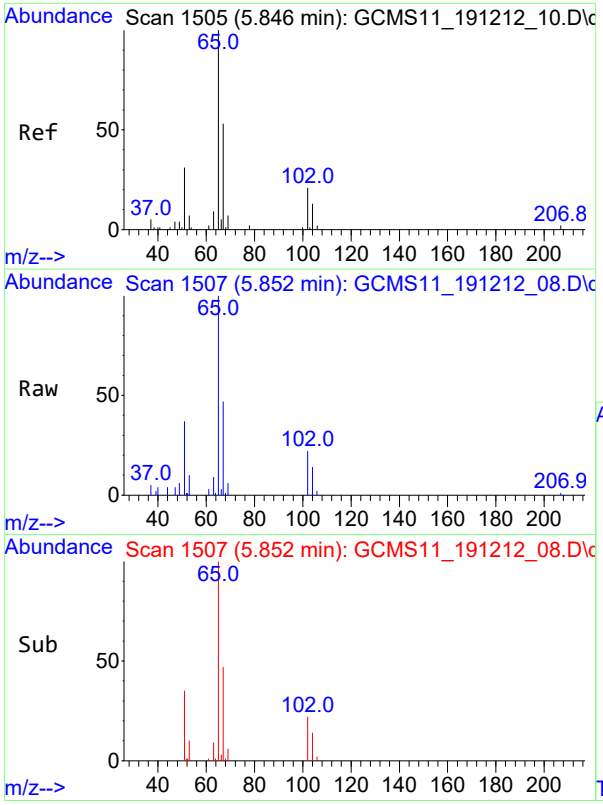


#25
1,1-Dichloropropene
Concen: 121.13 ng
RT: 5.662 min Scan# 1448
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 75 Resp: 61977

Ion	Ratio	Lower	Upper
75	100		
110	38.8	8.8	68.8
77	31.1	1.1	61.1

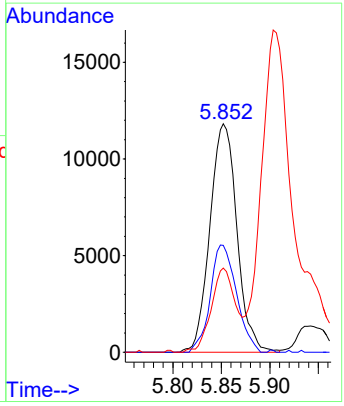


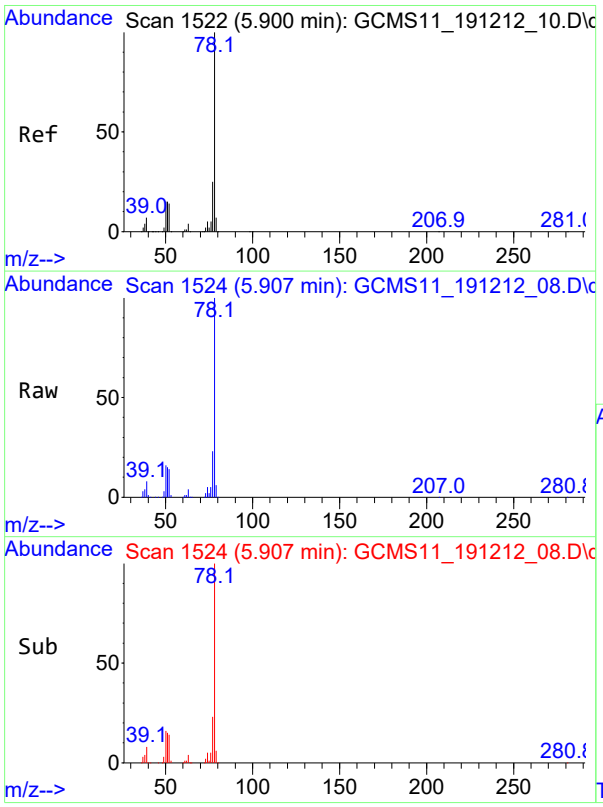


#26
1,2-DICHLOROETHANE-D4
Concen: 51.14 ng
RT: 5.852 min Scan# 1507
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 65 Resp: 22927

Ion	Ratio	Lower	Upper
65	100		
67	45.4	15.4	75.4
51	32.7	2.7	62.7

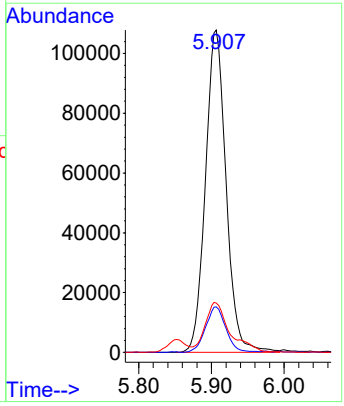


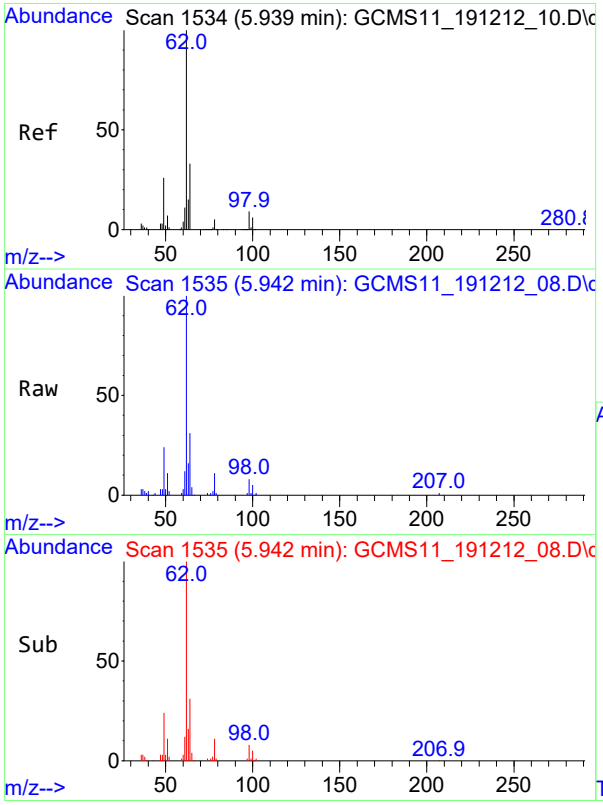


#27
Benzene
Concen: 122.61 ng
RT: 5.907 min Scan# 1524
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 78 Resp: 212864

Ion	Ratio	Lower	Upper
78	100		
52	14.0	0.0	44.0
51	18.4	0.0	48.4

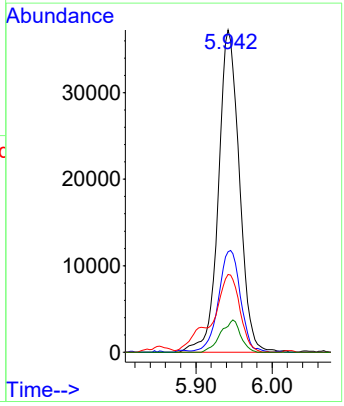


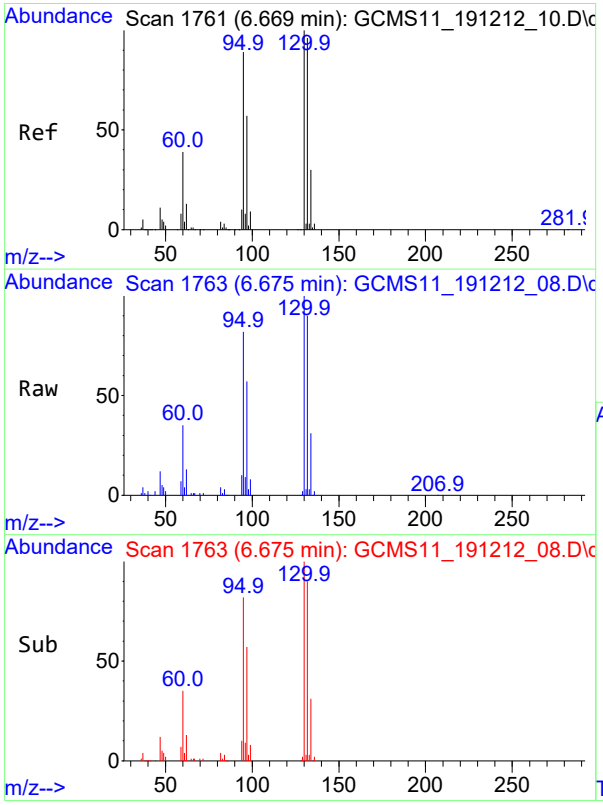


#28
1,2-Dichloroethane
Concen: 121.65 ng
RT: 5.942 min Scan# 1535
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 62 Resp: 70976

Ion	Ratio	Lower	Upper
62	100		
64	33.3	3.2	63.2
49	25.4	0.0	55.4
98	9.6	0.0	39.6

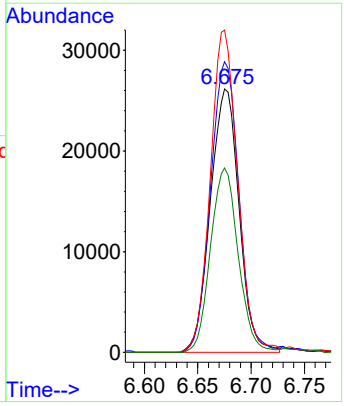


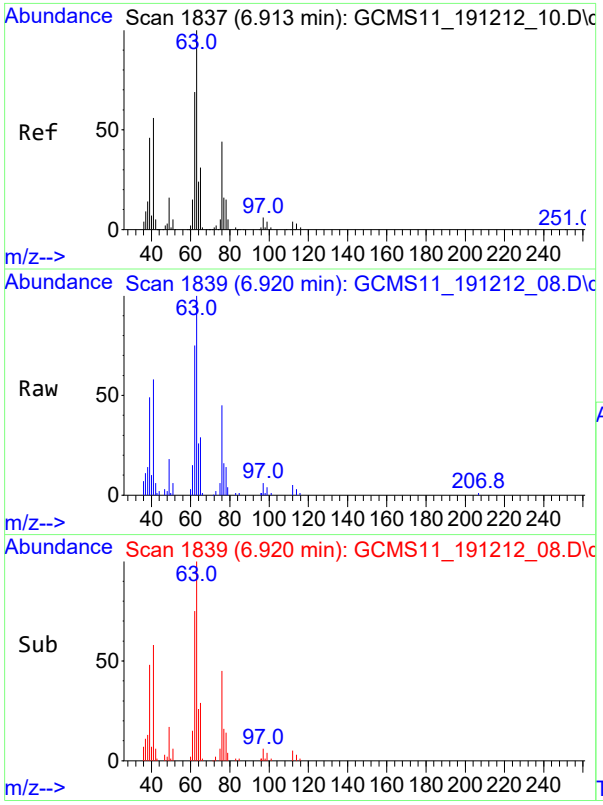


#29
Trichloroethene
Concen: 119.90 ng
RT: 6.675 min Scan# 1763
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 95 Resp: 49120

Ion	Ratio	Lower	Upper
95	100		
132	108.5	78.7	138.7
130	116.2	86.1	146.1
97	67.3	37.2	97.2

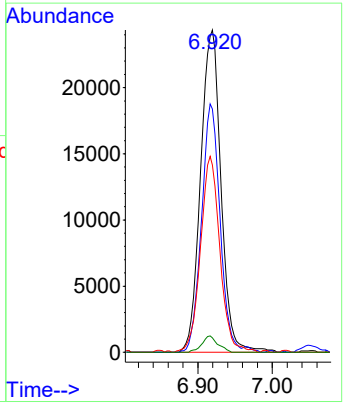


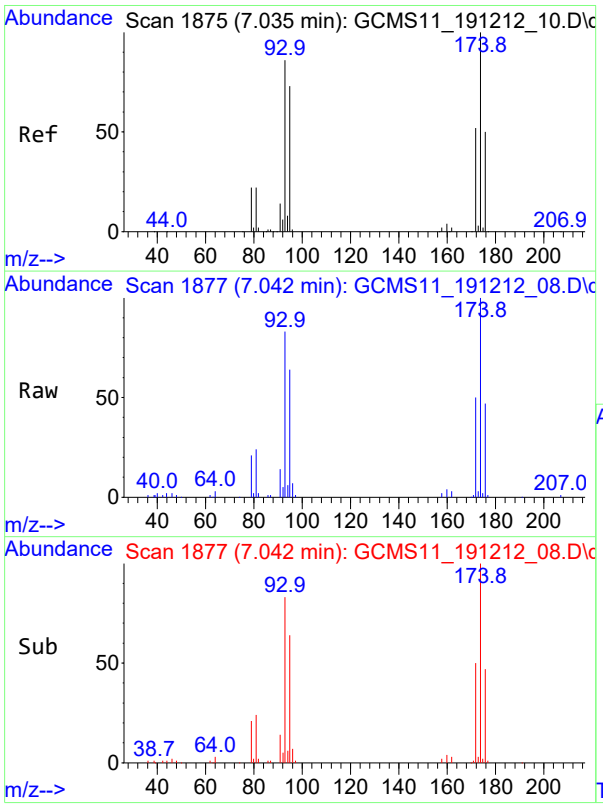


#30
1,2-Dichloropropane
Concen: 120.71 ng
RT: 6.920 min Scan# 1839
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 63 Resp: 46467

Ion	Ratio	Lower	Upper
63	100		
62	69.8	39.8	99.8
41	57.8	27.8	87.8
112	4.0	0.0	34.0

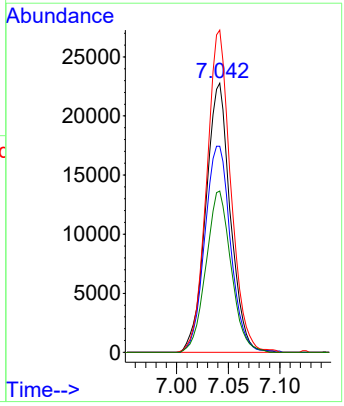


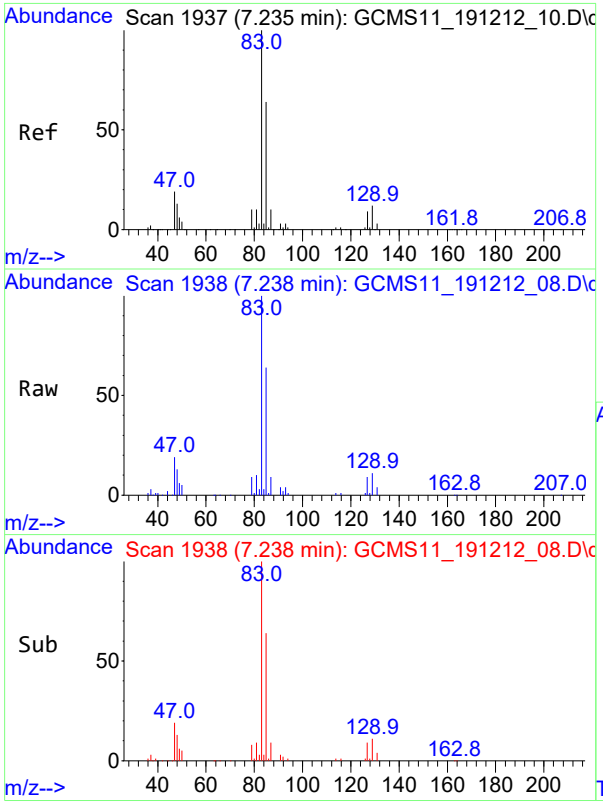


#31
Dibromomethane
Concen: 120.36 ng
RT: 7.042 min Scan# 1877
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 93 Resp: 37716

Ion	Ratio	Lower	Upper
93	100		
95	80.8	50.8	110.8
174	118.1	88.3	148.3
172	61.4	31.3	91.3

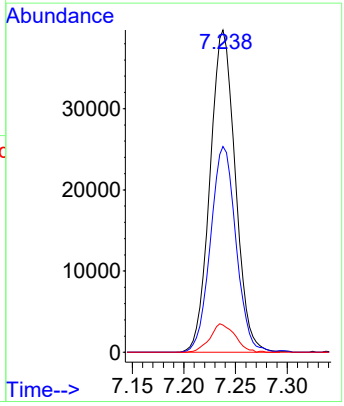


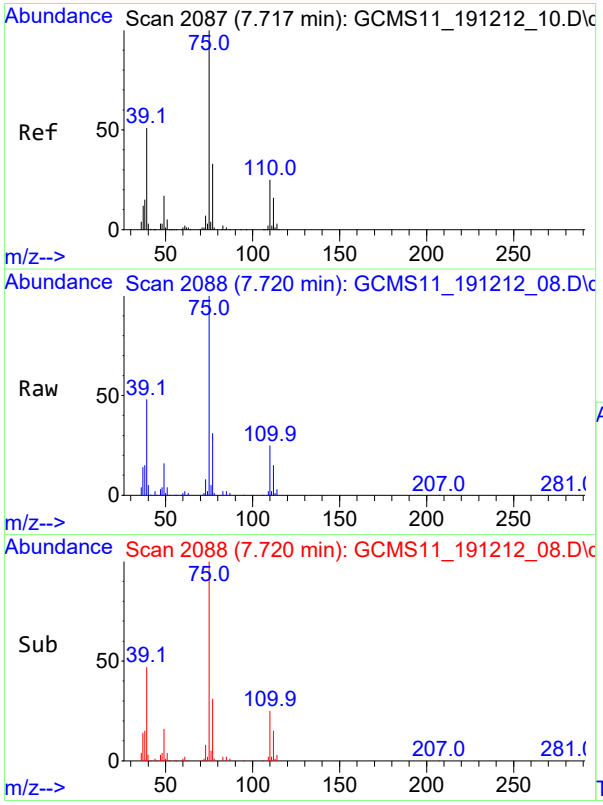


#33
Bromodichloromethane
Concen: 124.28 ng
RT: 7.238 min Scan# 1938
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 83 Resp: 67523

Ion	Ratio	Lower	Upper
83	100		
85	64.5	34.5	94.5
127	8.8	0.0	38.6

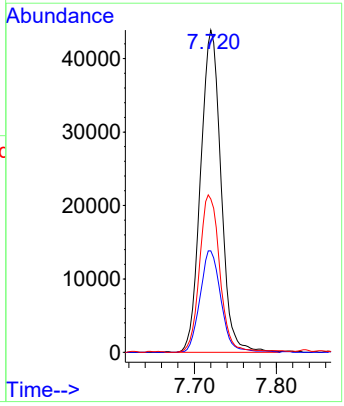


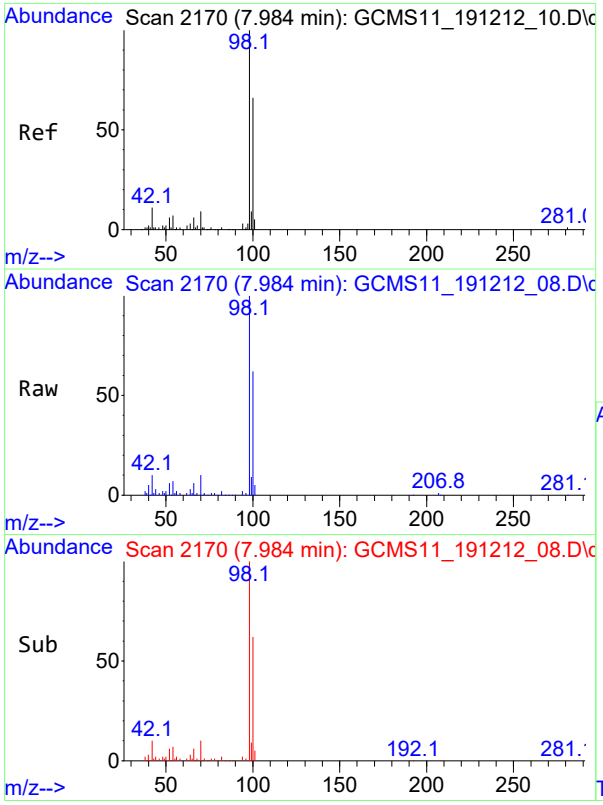


#35
cis-1,3-Dichloropropene
Concen: 125.94 ng
RT: 7.720 min Scan# 2088
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 75 Resp: 75823

Ion	Ratio	Lower	Upper
75	100		
77	32.5	2.5	62.5
39	48.8	18.8	78.8

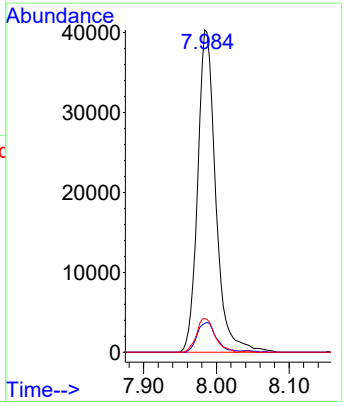


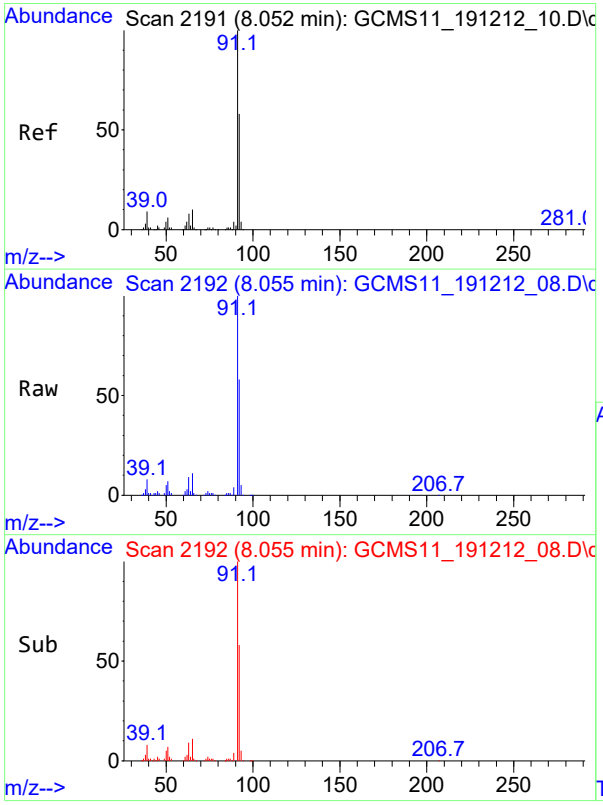


#37
TOLUENE-D8
Concen: 49.48 ng
RT: 7.984 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 98 Resp: 69700

Ion	Ratio	Lower	Upper
98	100		
99	9.8	0.0	39.8
70	10.7	0.0	40.7

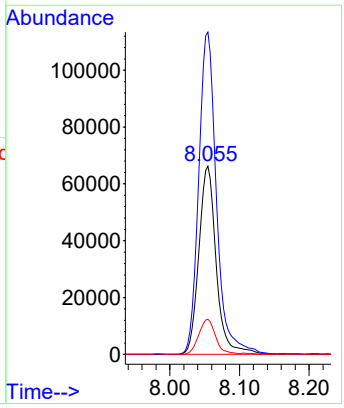


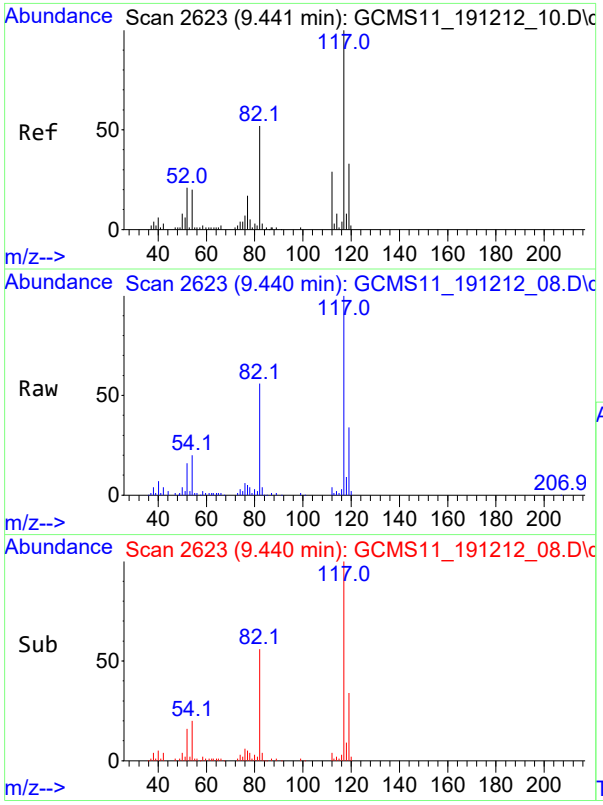


#38
Toluene
Concen: 118.38 ng
RT: 8.055 min Scan# 2192
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 92 Resp: 114961

Ion	Ratio	Lower	Upper
92	100		
91	175.1	145.1	205.1
65	18.1	0.0	48.1

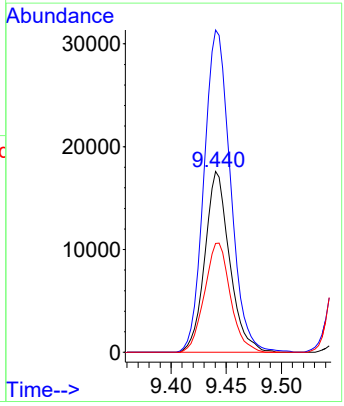


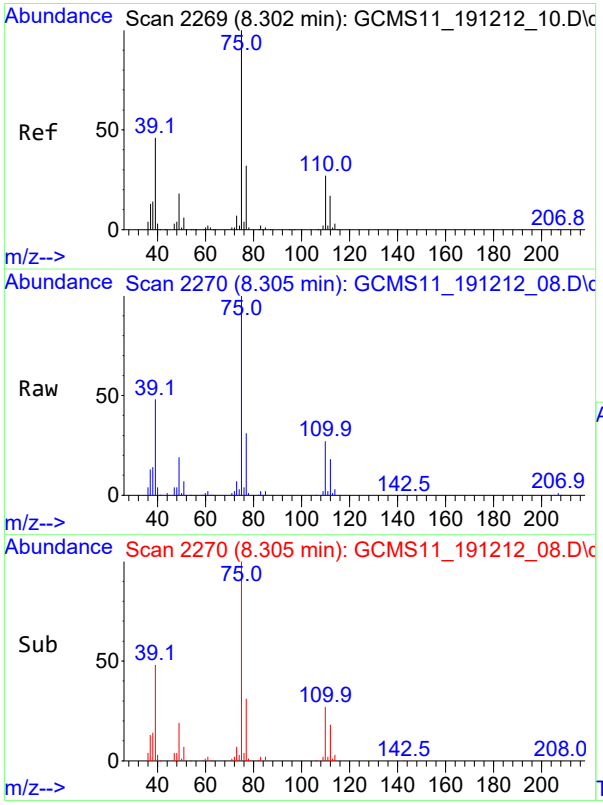


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.440 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 82 Resp: 27488

Ion	Ratio	Lower	Upper
82	100		
117	190.0	160.7	220.7
119	63.1	33.5	93.5

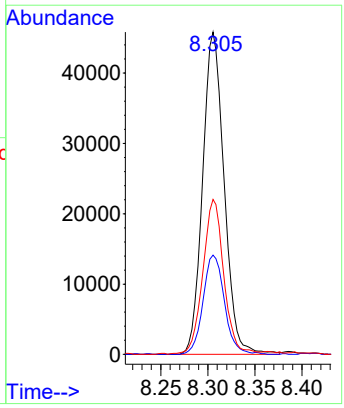


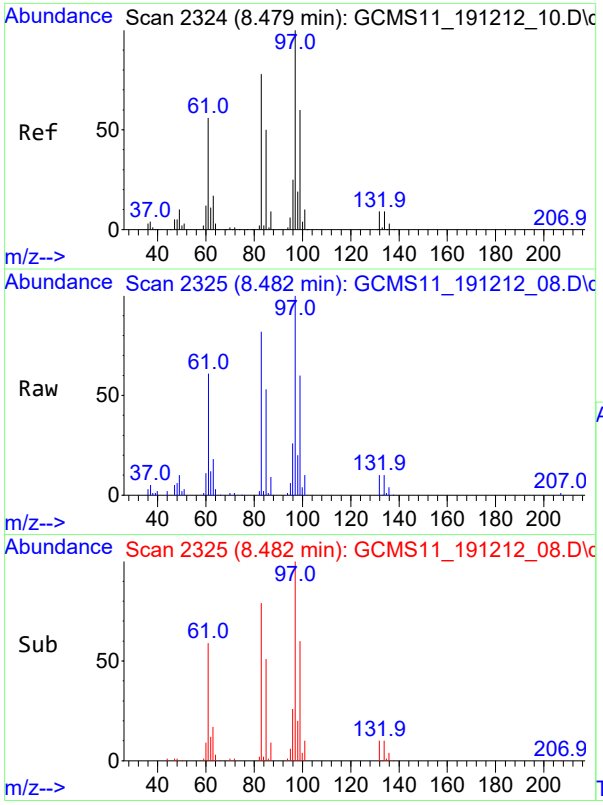


#40
trans-1,3-Dichloropropene
Concen: 121.48 ng
RT: 8.305 min Scan# 2270
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 75 Resp: 72803

Ion	Ratio	Lower	Upper
75	100		
77	30.7	0.7	60.7
39	47.0	17.0	77.0

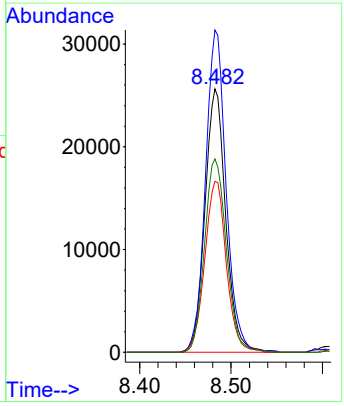


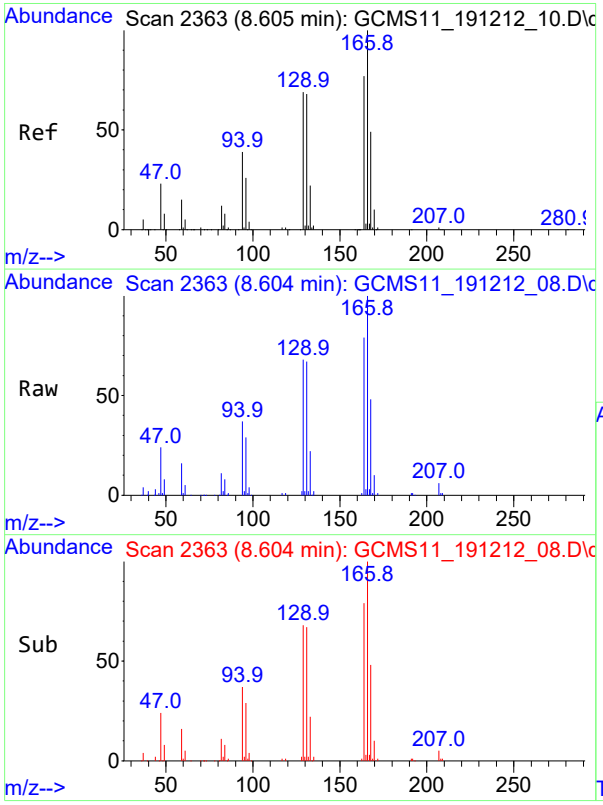


#41
1,1,2-Trichloroethane
Concen: 118.00 ng
RT: 8.482 min Scan# 2325
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 83 Resp: 40669

Ion	Ratio	Lower	Upper
83	100		
97	120.7	90.7	150.7
85	67.5	37.5	97.5
99	76.8	46.8	106.8

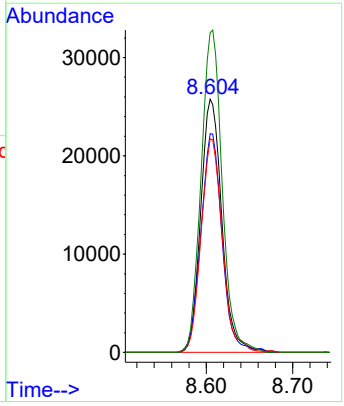


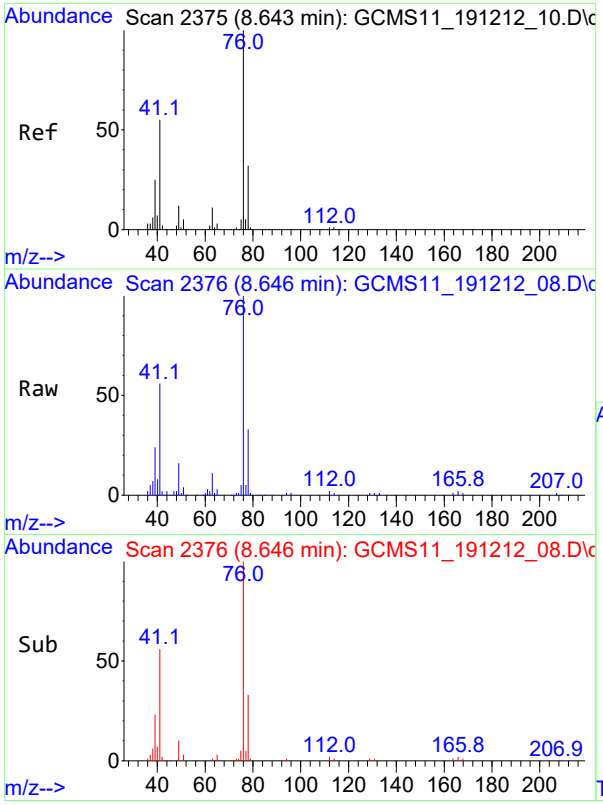


#42
Tetrachloroethene
Concen: 126.67 ng
RT: 8.604 min Scan# 2363
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:164 Resp: 43832

Ion	Ratio	Lower	Upper
164	100		
129	85.9	57.5	117.5
131	84.4	55.8	115.8
166	126.8	99.4	159.4

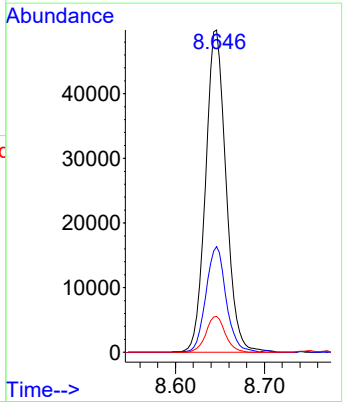


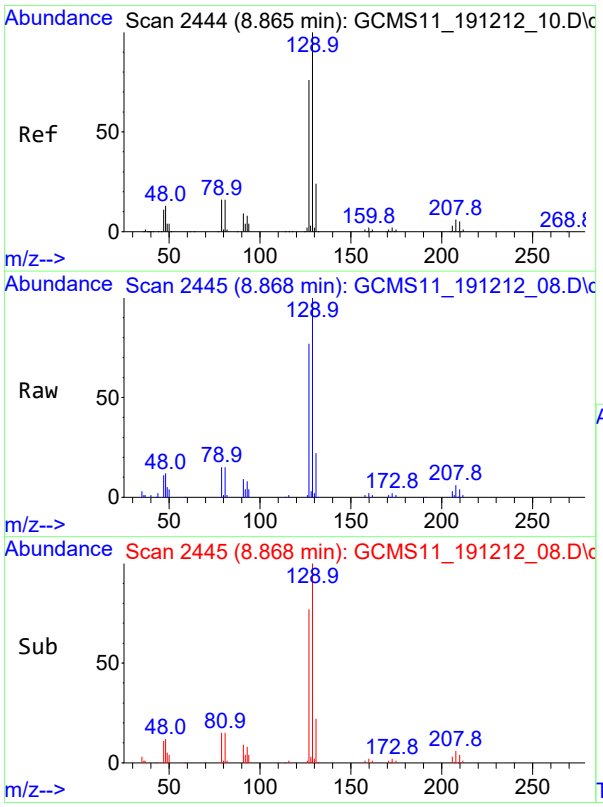


#43
1,3-Dichloropropane
Concen: 119.46 ng
RT: 8.646 min Scan# 2376
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 76 Resp: 79747

Ion	Ratio	Lower	Upper
76	100		
78	32.5	2.5	62.5
63	10.6	0.0	40.6

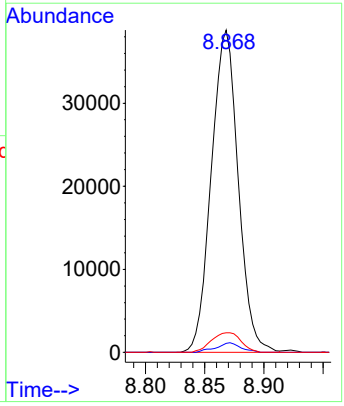


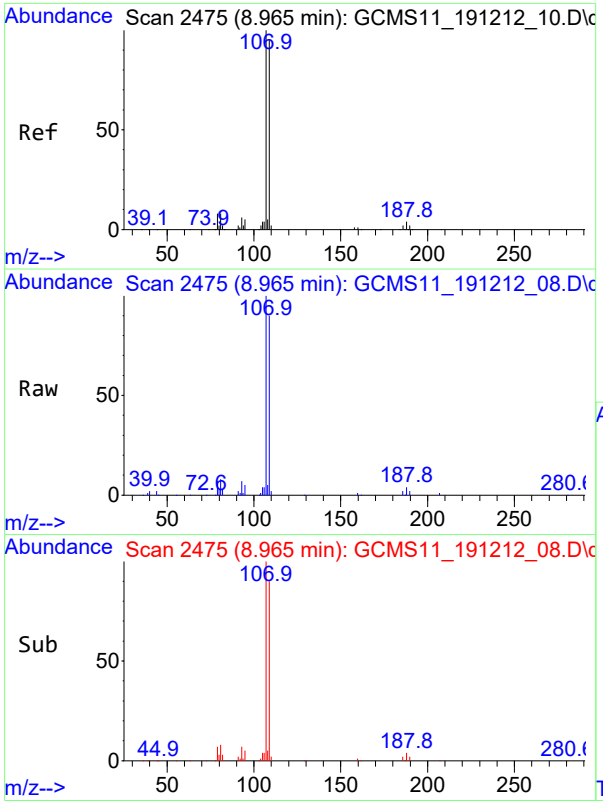


#45
Dibromochloromethane
Concen: 119.49 ng
RT: 8.868 min Scan# 2445
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:129 Resp: 61127

Ion	Ratio	Lower	Upper
129	100		
206	2.8	0.0	32.2
208	6.8	0.0	36.8

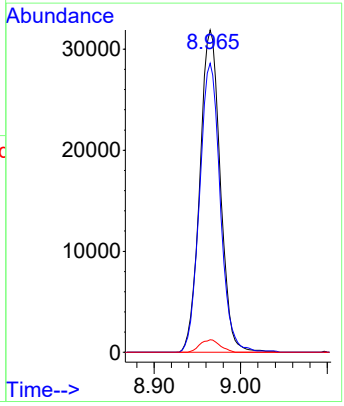


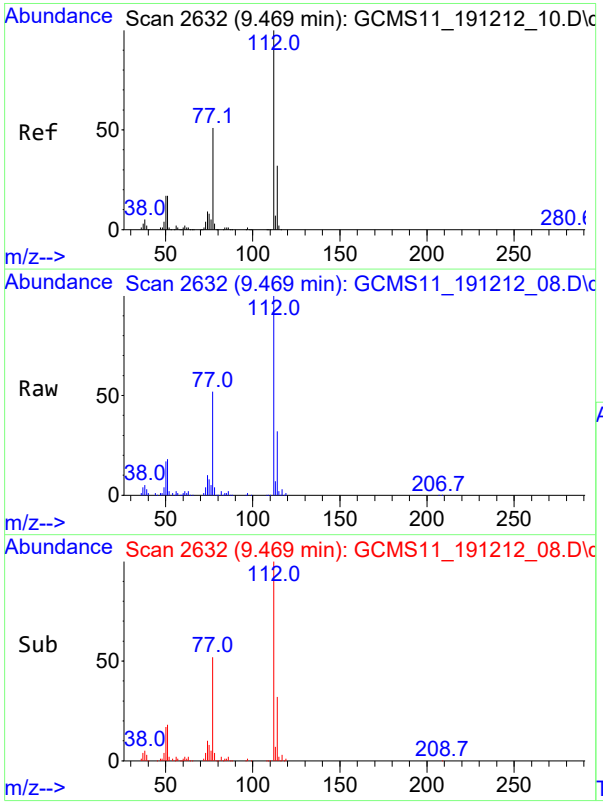


#46
1,2-Dibromoethane (EDB)
Concen: 119.98 ng
RT: 8.965 min Scan# 2475
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:107 Resp: 52428

Ion	Ratio	Lower	Upper
107	100		
109	90.5	60.6	120.6
188	3.9	0.0	33.6

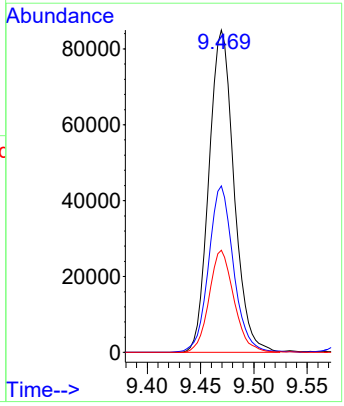


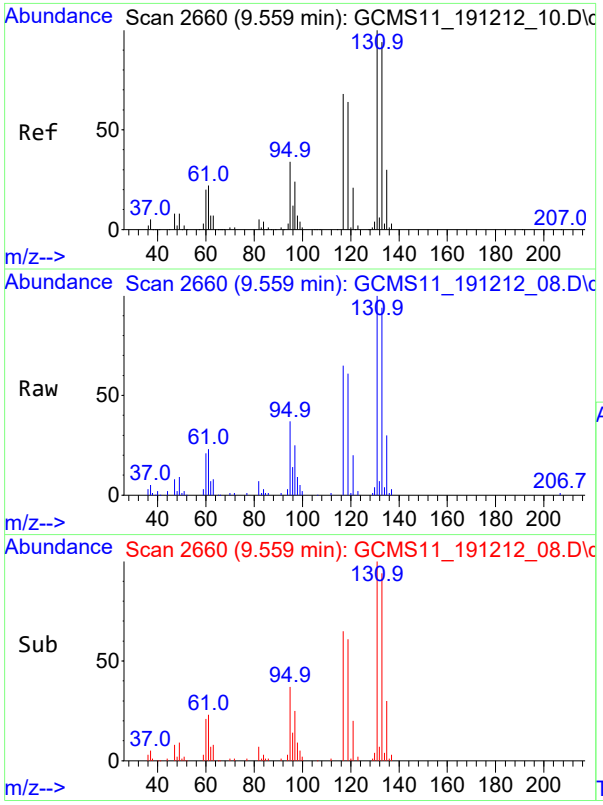


#47
Chlorobenzene
Concen: 117.60 ng
RT: 9.469 min Scan# 2632
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:112 Resp: 138844

Ion	Ratio	Lower	Upper
112	100		
77	51.6	21.6	81.6
114	31.5	1.4	61.4

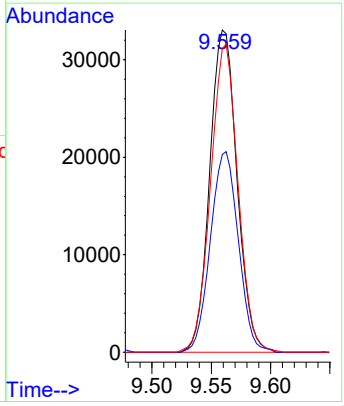


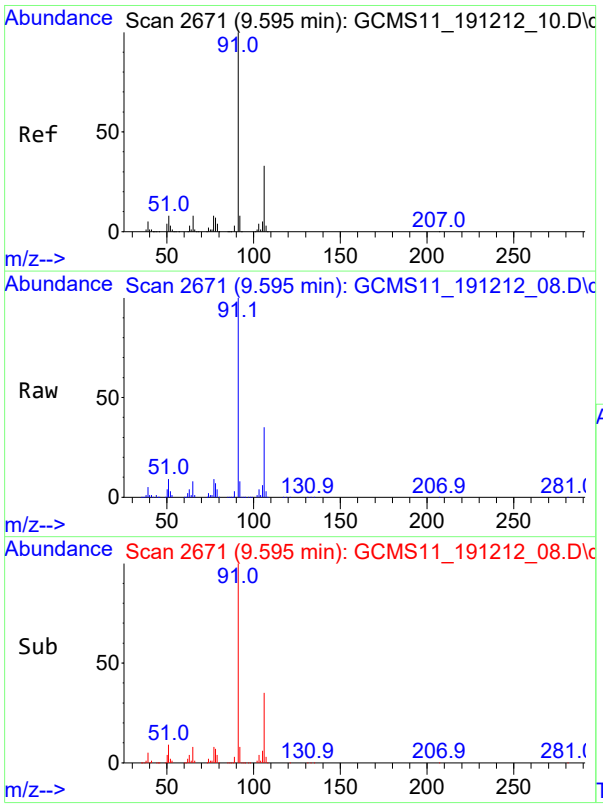


#48
1,1,1,2-Tetrachloroethane
Concen: 116.44 ng
RT: 9.559 min Scan# 2660
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:131 Resp: 52946

Ion	Ratio	Lower	Upper
131	100		
119	63.6	33.7	93.7
133	95.9	65.9	125.9

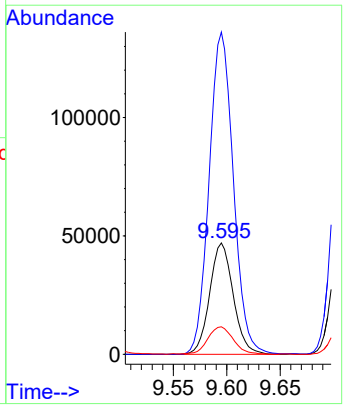


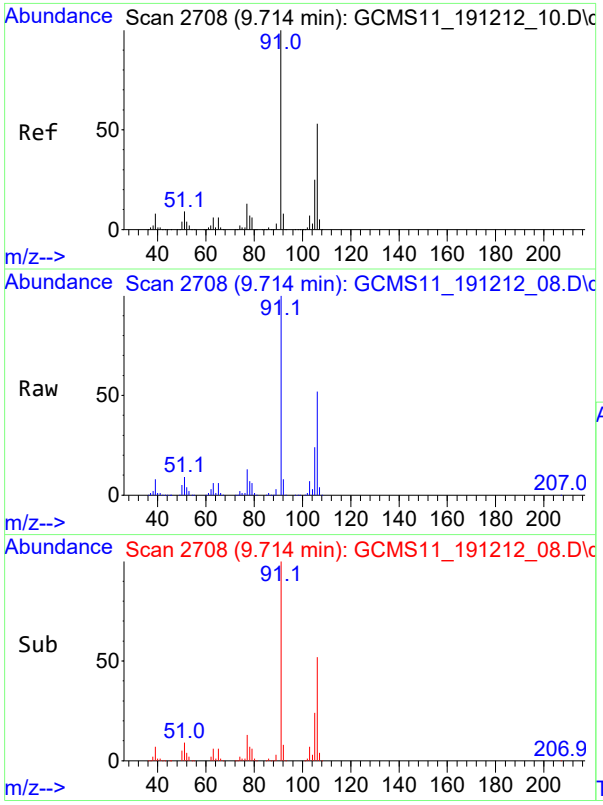


#49
Ethylbenzene
Concen: 119.17 ng
RT: 9.595 min Scan# 2671
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:106 Resp: 72513

Ion	Ratio	Lower	Upper
106	100		
91	296.7	267.1	327.1
77	27.1	0.0	57.1

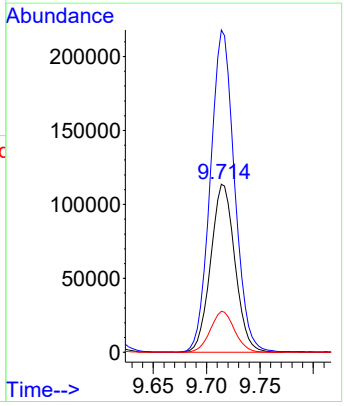


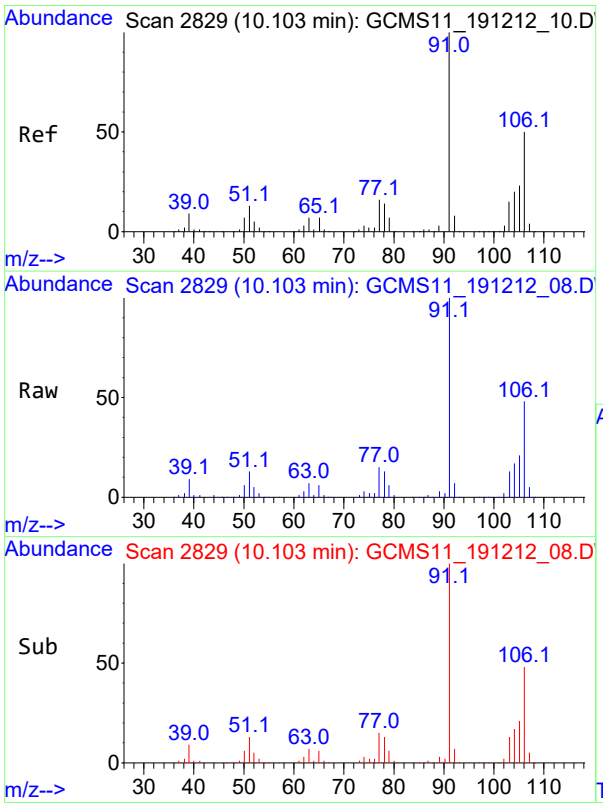


#50
m+p-Xylene
Concen: 233.64 ng
RT: 9.714 min Scan# 2708
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:106 Resp: 179861

Ion	Ratio	Lower	Upper
106	100		
91	190.7	160.8	220.8
77	24.6	0.0	54.6

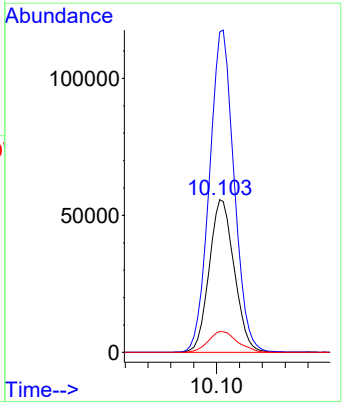


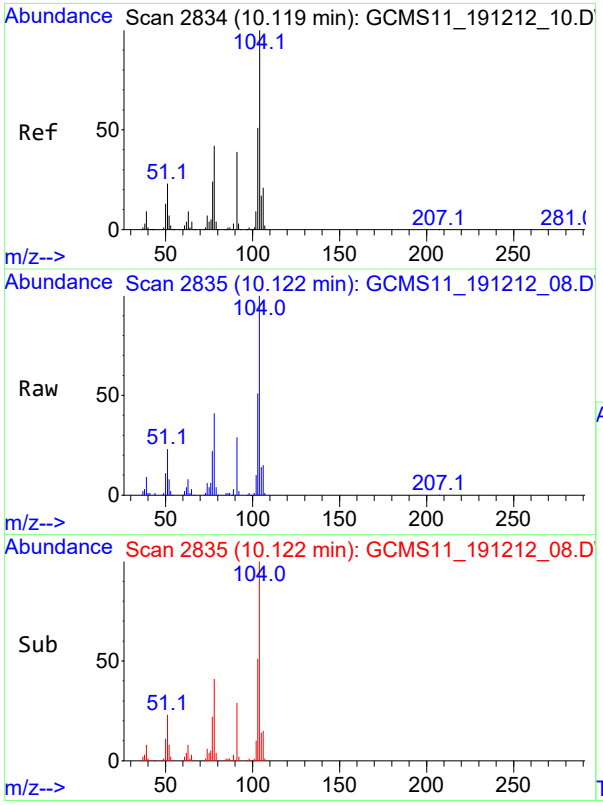


#51
o-Xylene
Concen: 114.47 ng
RT: 10.103 min Scan# 2829
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:106 Resp: 85131

Ion	Ratio	Lower	Upper
106	100		
91	208.4	178.4	238.4
65	15.9	0.0	45.9

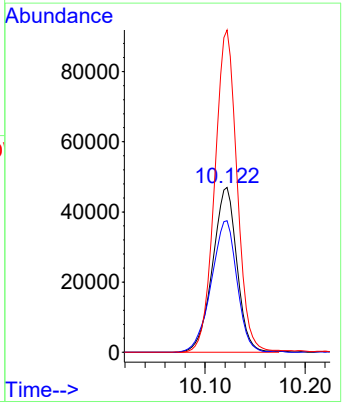


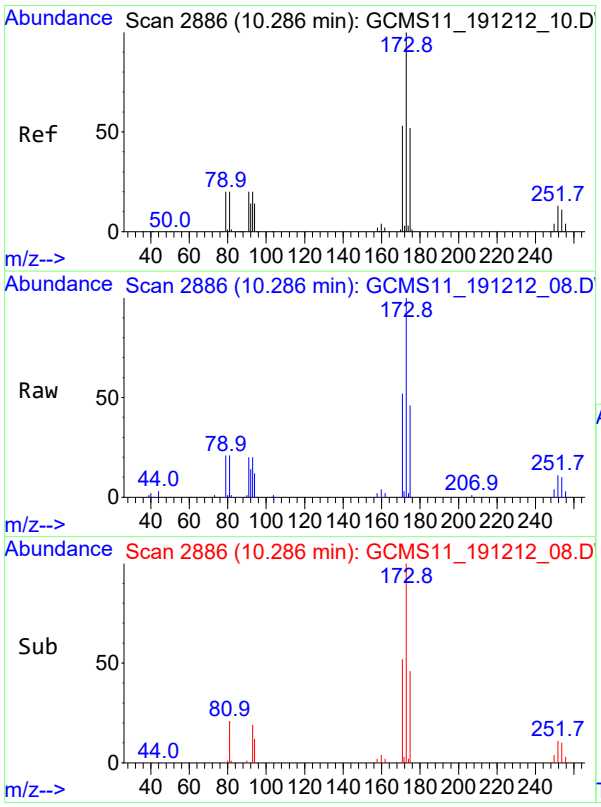


#52
Styrene
Concen: 113.55 ng
RT: 10.122 min Scan# 2835
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:103 Resp: 79878

Ion	Ratio	Lower	Upper
103	100		
78	84.2	54.1	114.1
104	180.0	150.1	210.1

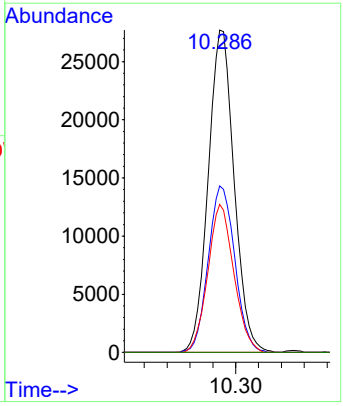


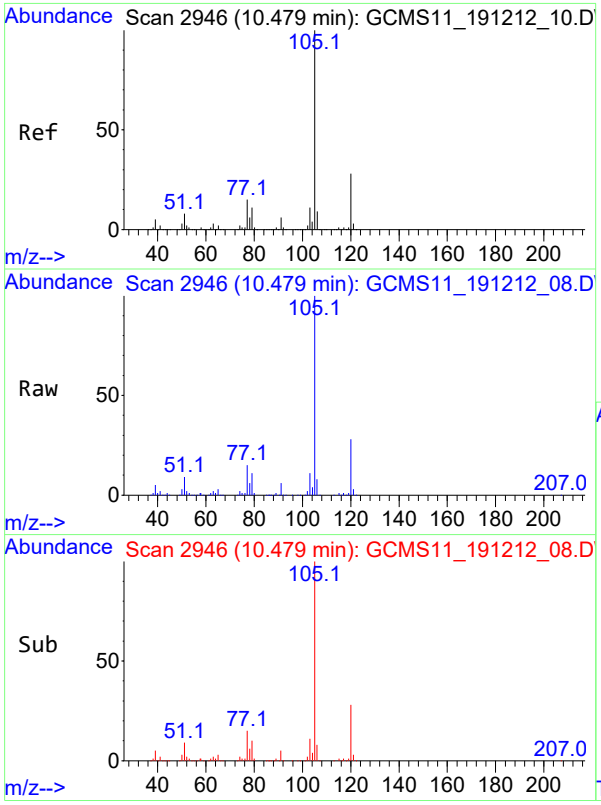


#53
Bromoform
Concen: 117.99 ng
RT: 10.286 min Scan# 2886
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:173 Resp: 43703

Ion	Ratio	Lower	Upper
173	100		
171	53.0	24.1	84.1
175	46.1	16.4	76.4
254	0.0	0.0	30.0

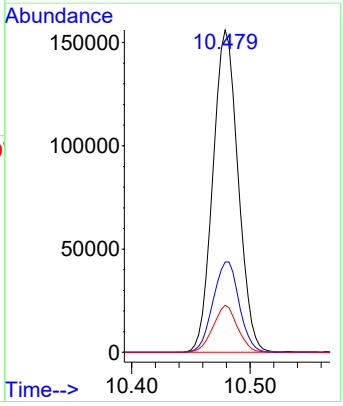


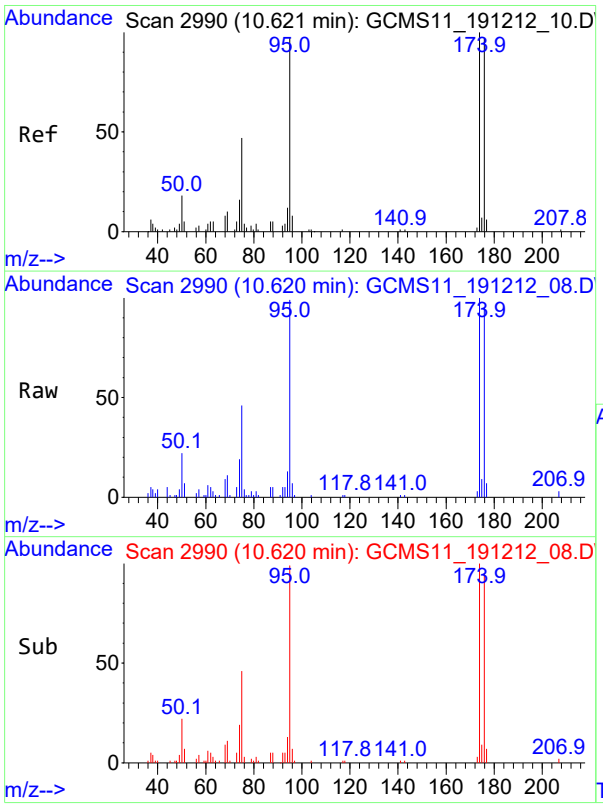


#54
Isopropylbenzene
Concen: 116.89 ng
RT: 10.479 min Scan# 2946
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:105 Resp: 229503

Ion	Ratio	Lower	Upper
105	100		
120	29.1	0.0	59.2
77	14.3	0.0	44.3

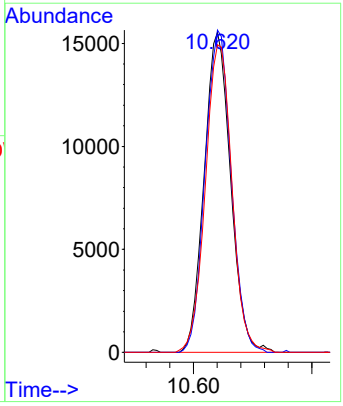


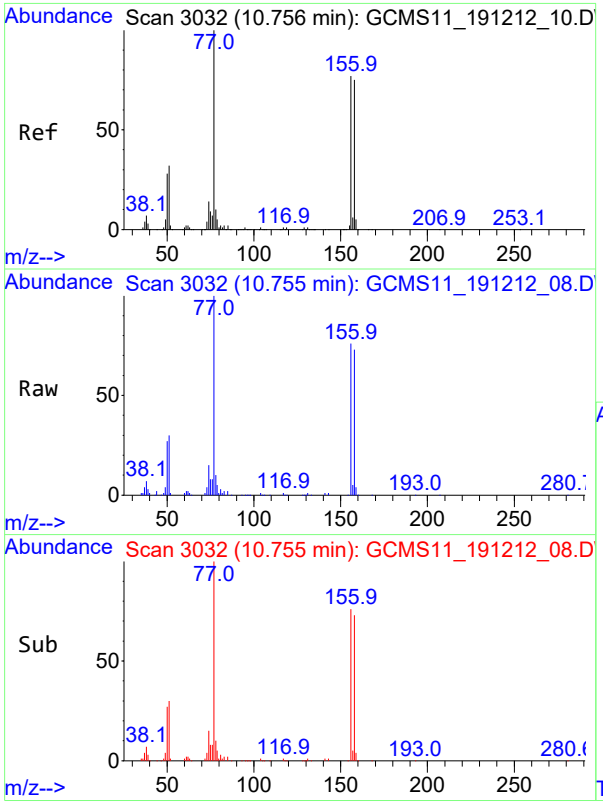


#55
4-BROMOFLUOROBENZENE
Concen: 48.33 ng
RT: 10.620 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 95 Resp: 24086

Ion	Ratio	Lower	Upper
95	100		
174	99.2	68.5	128.5
176	96.5	66.8	126.8

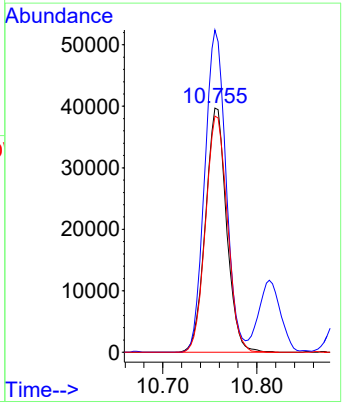


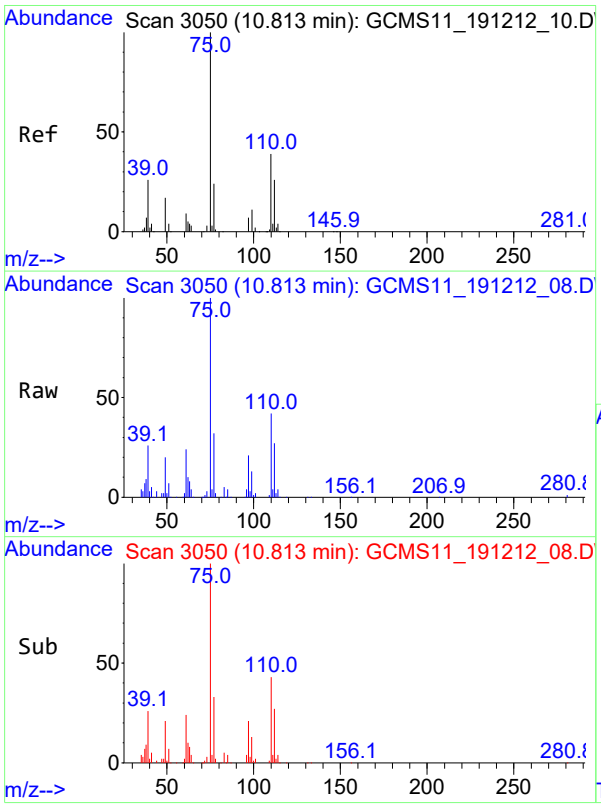


#56
Bromobenzene
Concen: 119.92 ng
RT: 10.755 min Scan# 3032
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:156 Resp: 61821

Ion	Ratio	Lower	Upper
156	100		
77	132.3	102.0	162.0
158	100.1	70.7	130.7

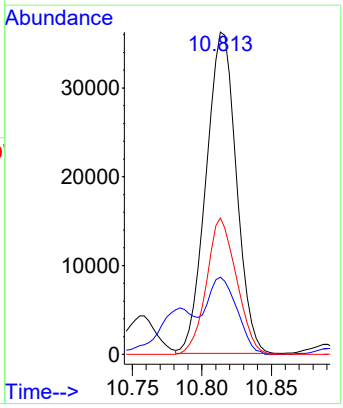


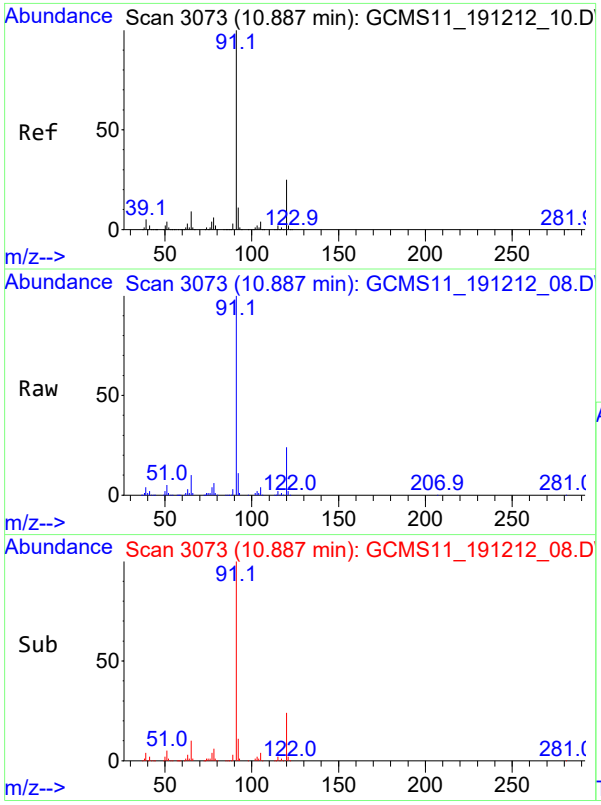


#57
1,2,3-Trichloropropane
Concen: 121.24 ng
RT: 10.813 min Scan# 3050
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 75 Resp: 54761

Ion	Ratio	Lower	Upper
75	100		
61	23.9	0.0	53.9
110	42.0	12.0	72.0

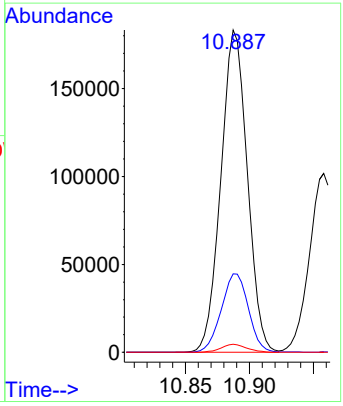


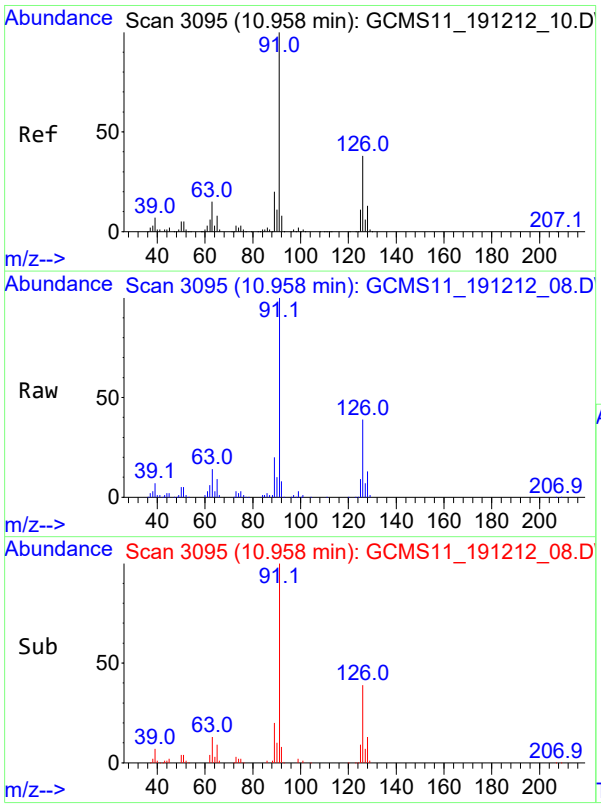


#58
n-Propylbenzene
Concen: 119.26 ng
RT: 10.887 min Scan# 3073
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 91 Resp: 263351

Ion	Ratio	Lower	Upper
91	100		
120	25.0	0.0	55.0
121	2.4	0.0	32.4

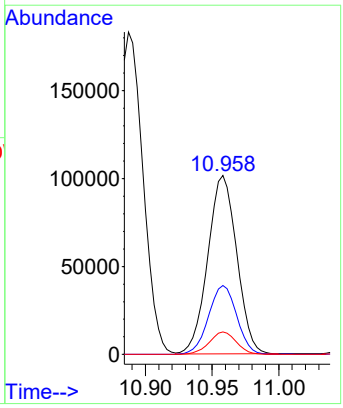


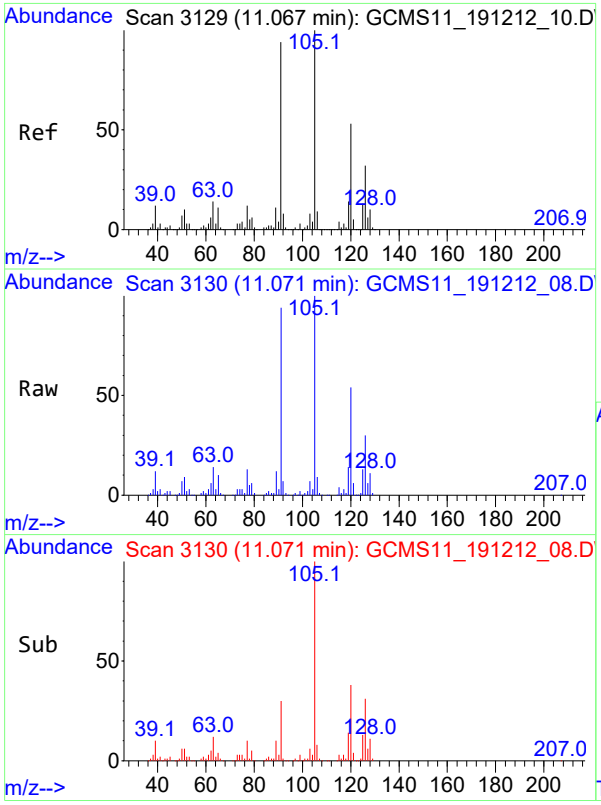


#59
2-Chlorotoluene
Concen: 118.80 ng
RT: 10.958 min Scan# 3095
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 91 Resp: 153299

Ion	Ratio	Lower	Upper
91	100		
126	37.6	7.6	67.6
128	11.8	0.0	41.8

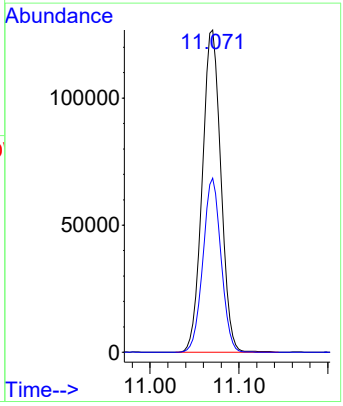


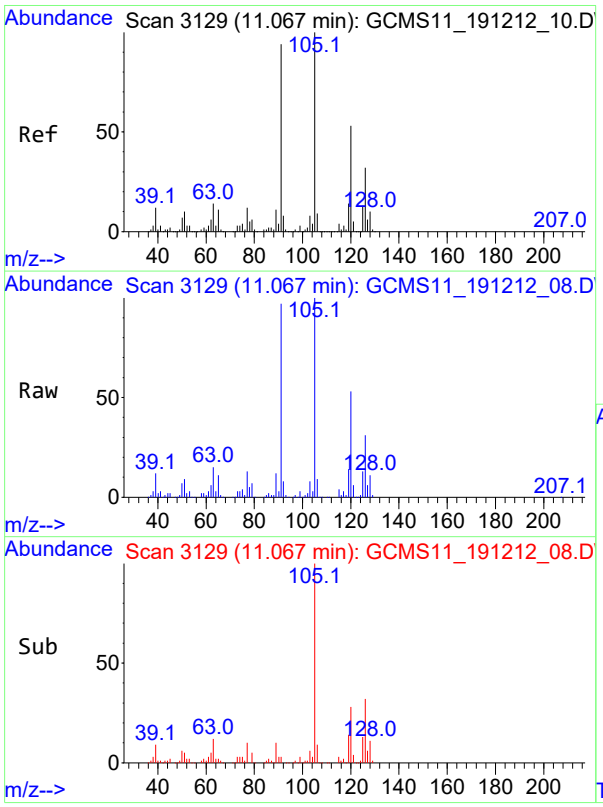


#60
1,3,5-Trimethylbenzene
Concen: 115.82 ng
RT: 11.071 min Scan# 3130
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:105 Resp: 185221

Ion	Ratio	Lower	Upper
105	100		
120	52.5	22.4	82.4

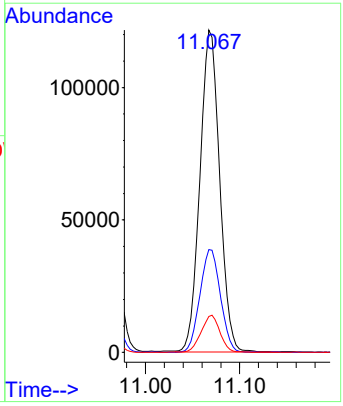


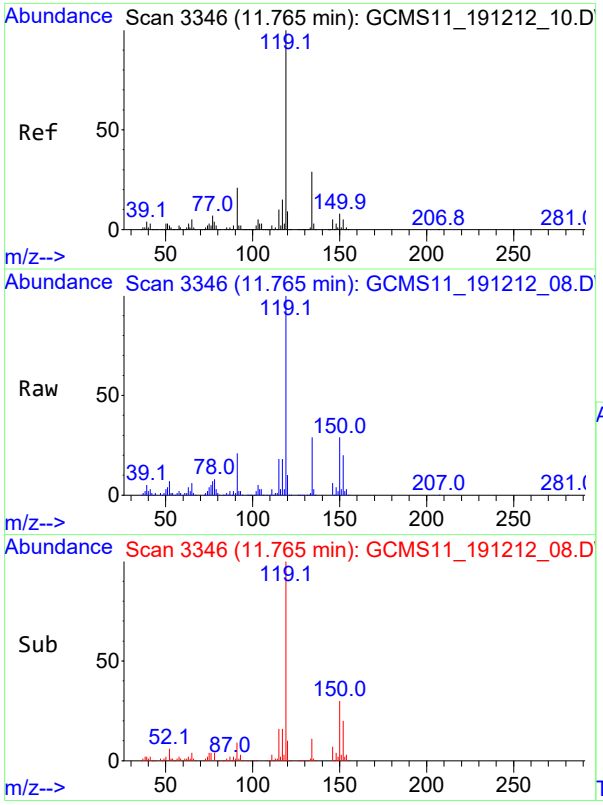


#61
4-Chlorotoluene
Concen: 117.10 ng
RT: 11.067 min Scan# 3129
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 91 Resp: 176286

Ion	Ratio	Lower	Upper
91	100		
126	33.3	3.3	63.3
128	11.2	0.0	41.2

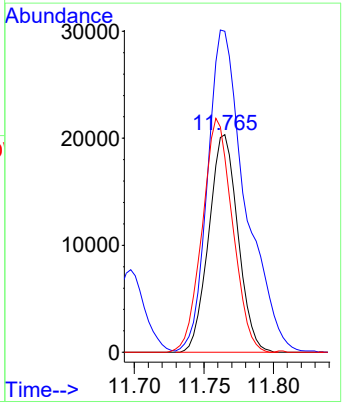


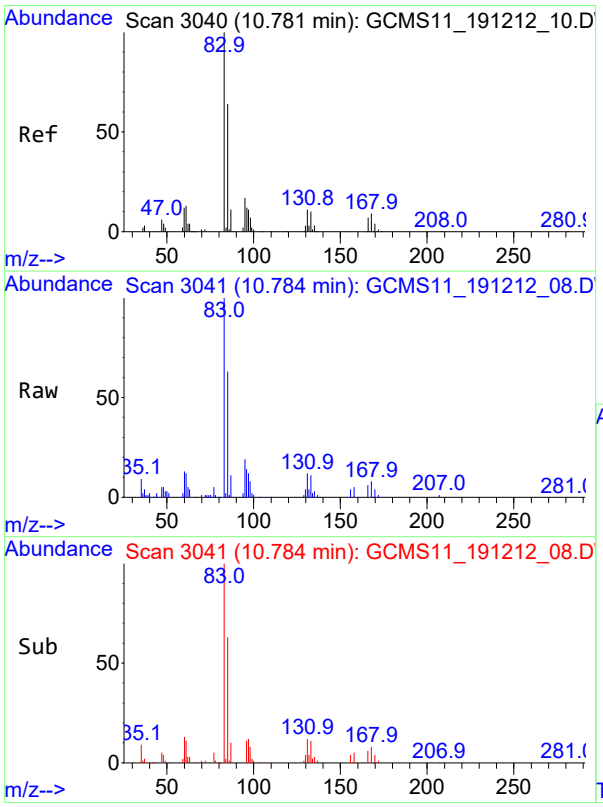


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.765 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:152 Resp: 29568

Ion	Ratio	Lower	Upper
152	100		
150	192.6	162.5	222.5
115	112.0	82.3	142.3

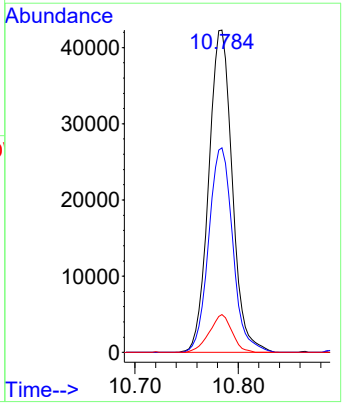


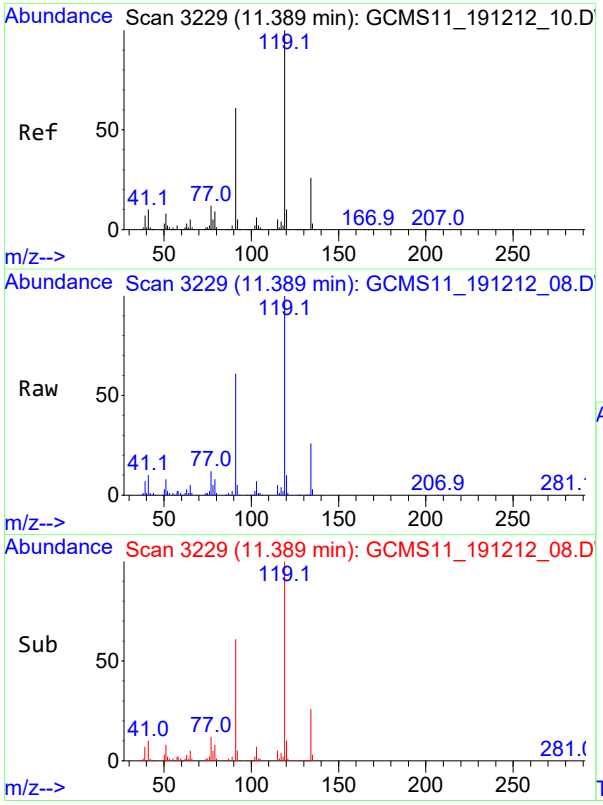


#63
1,1,2,2-Tetrachloroethane
Concen: 126.17 ng
RT: 10.784 min Scan# 3041
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 83 Resp: 66953

Ion	Ratio	Lower	Upper
83	100		
85	65.1	35.1	95.1
131	11.4	0.0	41.4

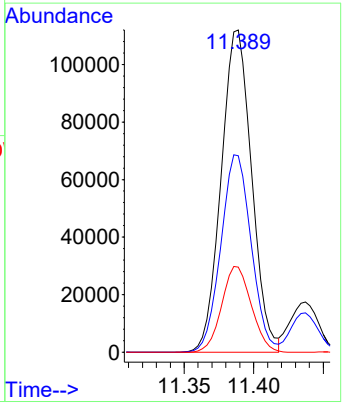


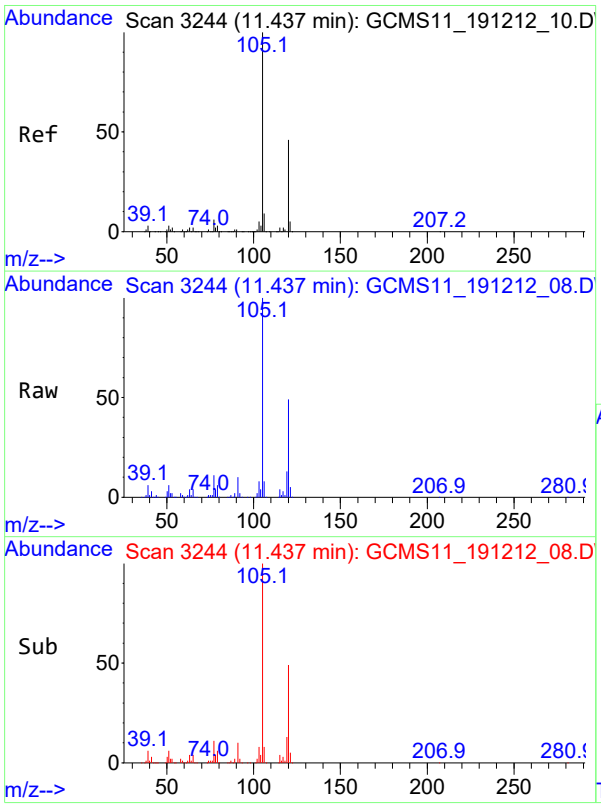


#64
tert-Butylbenzene
Concen: 130.89 ng
RT: 11.389 min Scan# 3229
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:119 Resp: 170782

Ion	Ratio	Lower	Upper
119	100		
91	61.1	31.1	91.1
134	25.9	0.0	55.9

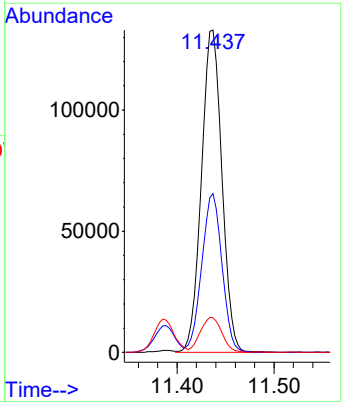


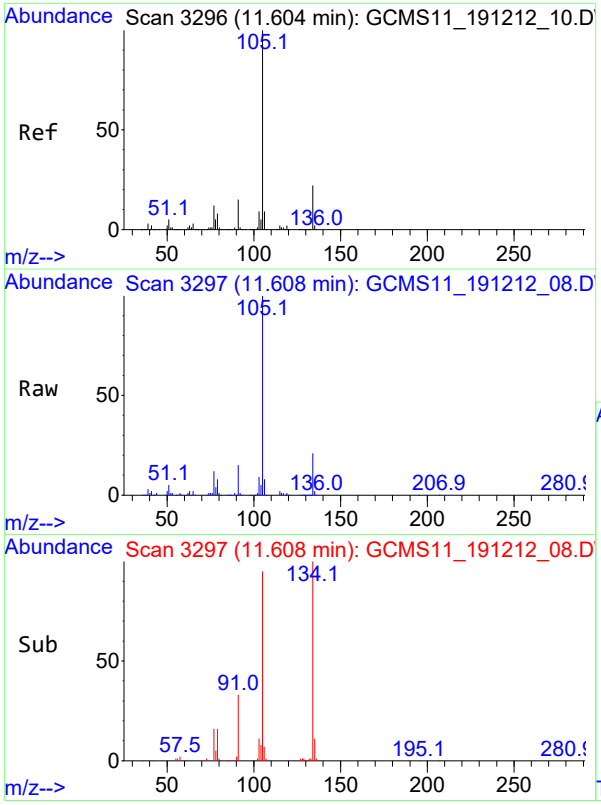


#65
1,2,4-Trimethylbenzene
Concen: 122.44 ng
RT: 11.437 min Scan# 3244
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:105 Resp: 195368

Ion	Ratio	Lower	Upper
105	100		
120	48.6	18.6	78.6
77	11.4	0.0	41.4

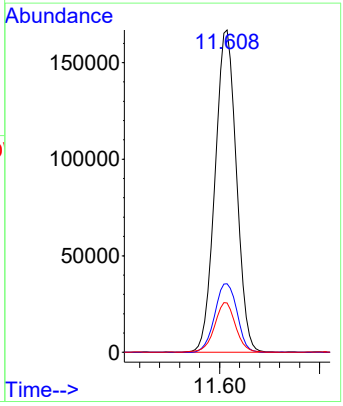


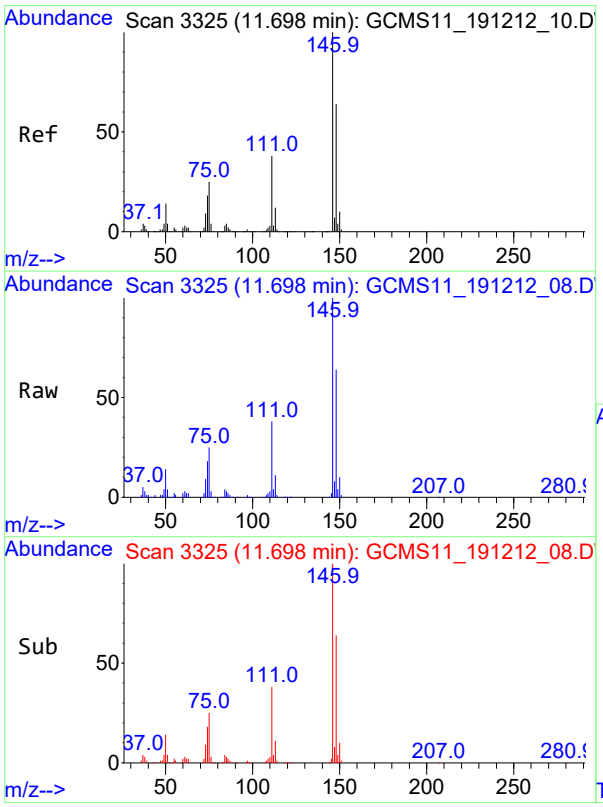


#66
sec-Butylbenzene
Concen: 127.09 ng
RT: 11.608 min Scan# 3297
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:105 Resp: 248837

Ion	Ratio	Lower	Upper
105	100		
134	22.3	0.0	52.3
91	15.3	0.0	45.3

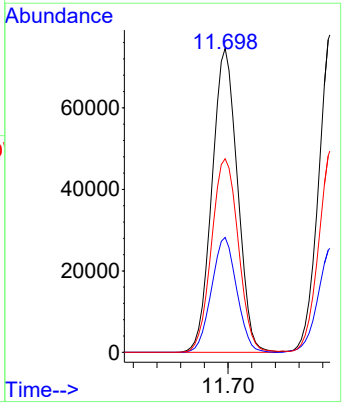


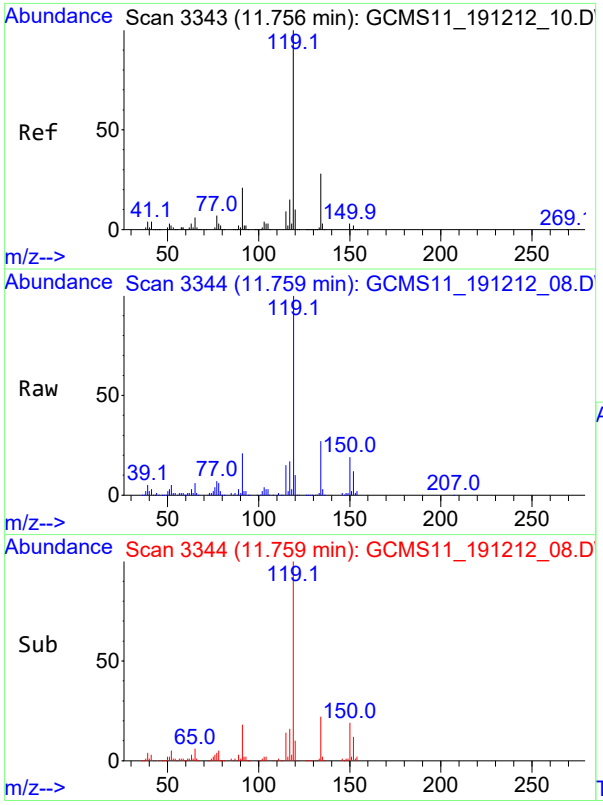


#67
1,3-Dichlorobenzene
Concen: 121.48 ng
RT: 11.698 min Scan# 3325
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:146 Resp: 110909

Ion	Ratio	Lower	Upper
146	100		
111	37.5	7.5	67.5
148	67.3	37.4	97.4

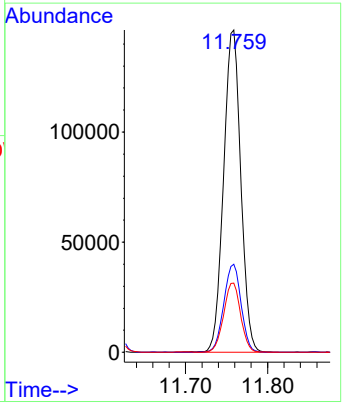


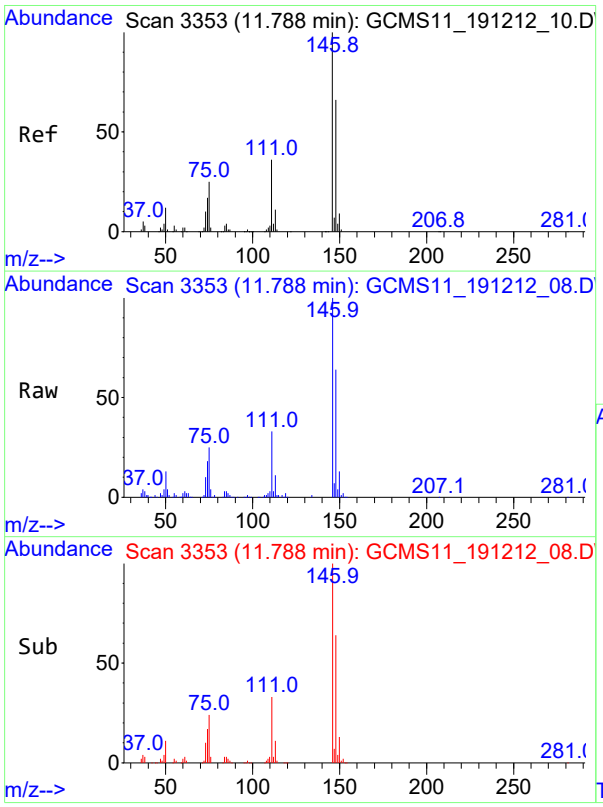


#68
p-Isopropyltoluene
Concen: 124.35 ng
RT: 11.759 min Scan# 3344
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:119 Resp: 213180

Ion	Ratio	Lower	Upper
119	100		
134	27.5	0.0	57.5
91	21.3	0.0	51.3

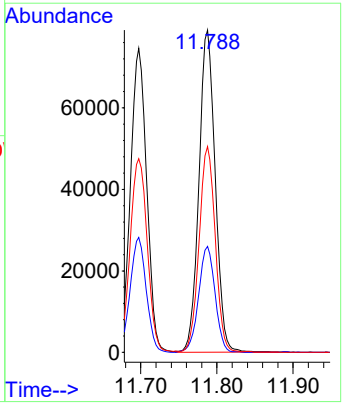


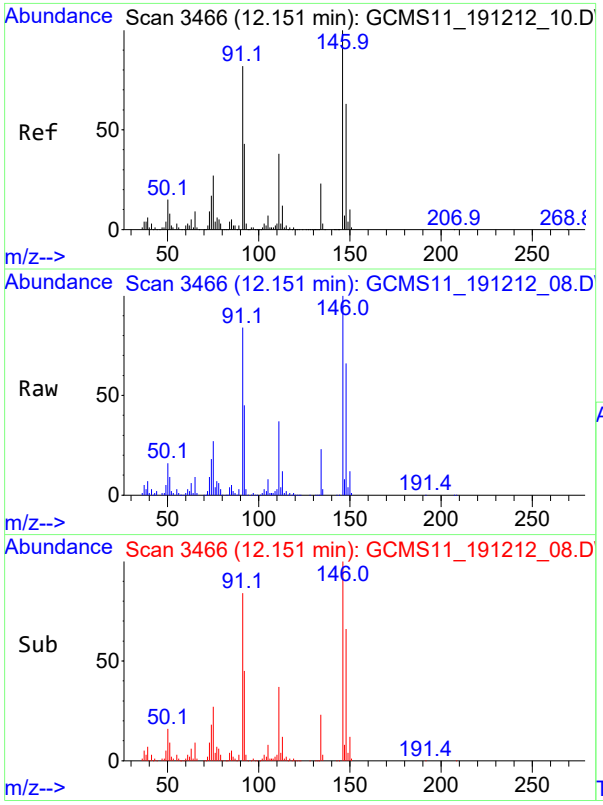


#69
1,4-Dichlorobenzene
Concen: 125.95 ng
RT: 11.788 min Scan# 3353
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:146 Resp: 117053

Ion	Ratio	Lower	Upper
146	100		
111	33.4	3.3	63.3
148	63.1	33.5	93.5

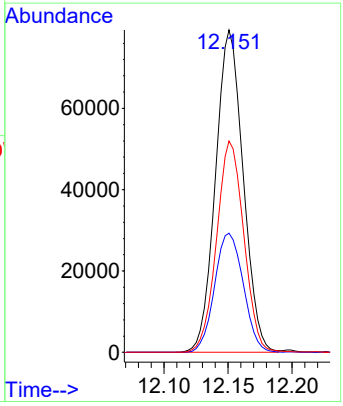


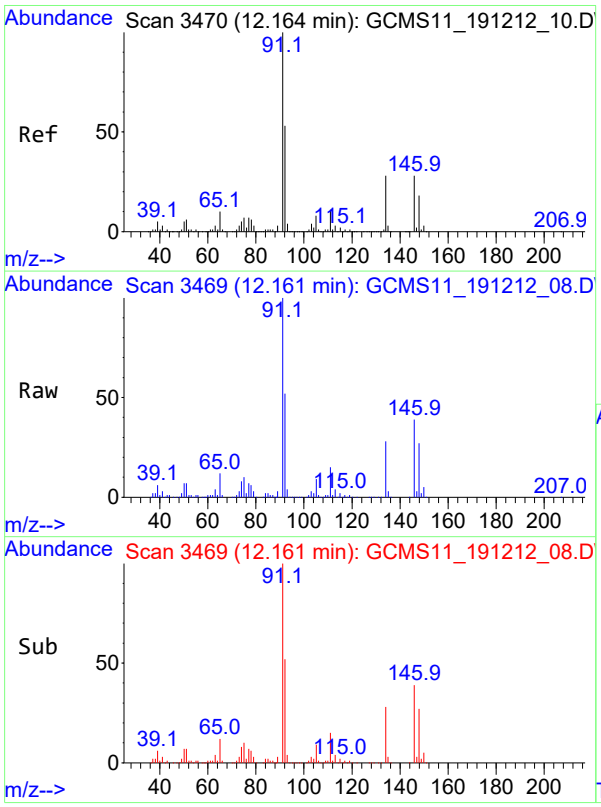


#70
1,2-Dichlorobenzene
Concen: 120.70 ng
RT: 12.151 min Scan# 3466
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:146 Resp: 119142

Ion	Ratio	Lower	Upper
146	100		
111	38.3	8.4	68.4
148	64.6	34.6	94.6

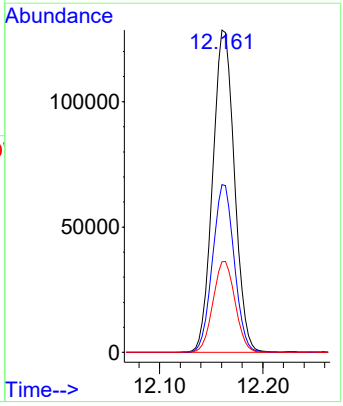


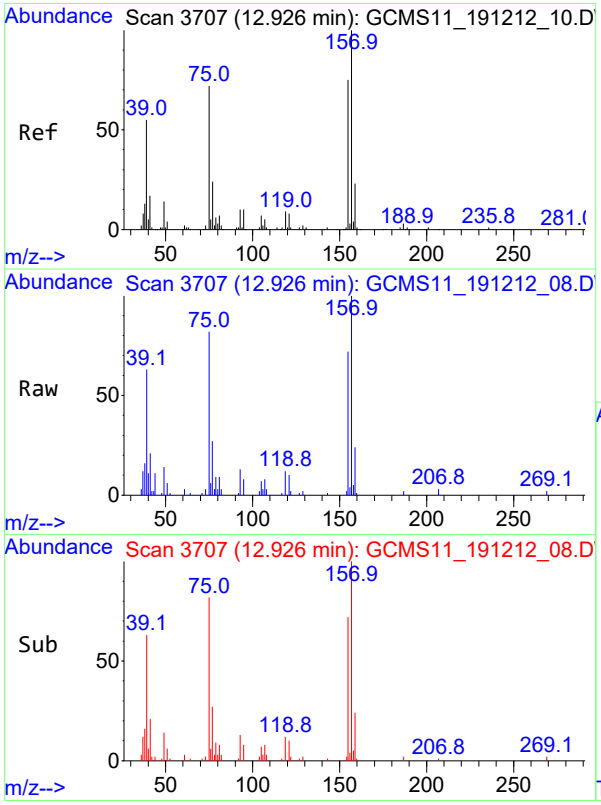


#71
n-Butylbenzene
Concen: 123.67 ng
RT: 12.161 min Scan# 3469
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion: 91 Resp: 188524

Ion	Ratio	Lower	Upper
91	100		
92	52.0	22.0	82.0
134	28.6	0.0	58.4

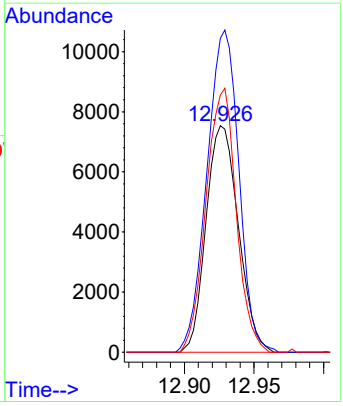


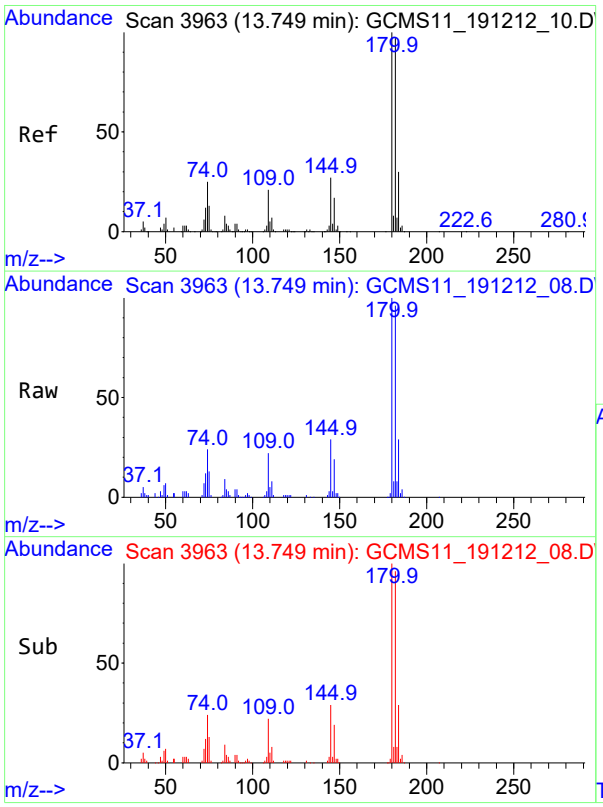


#72
1,2-Dibromo-3-chloropropane
Concen: 119.90 ng
RT: 12.926 min Scan# 3707
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:155 Resp: 12153

Ion	Ratio	Lower	Upper
155	100		
157	140.8	110.8	170.8
75	109.2	79.5	139.5

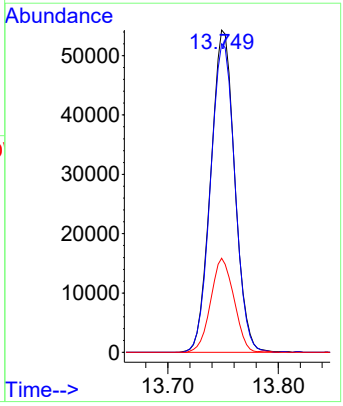


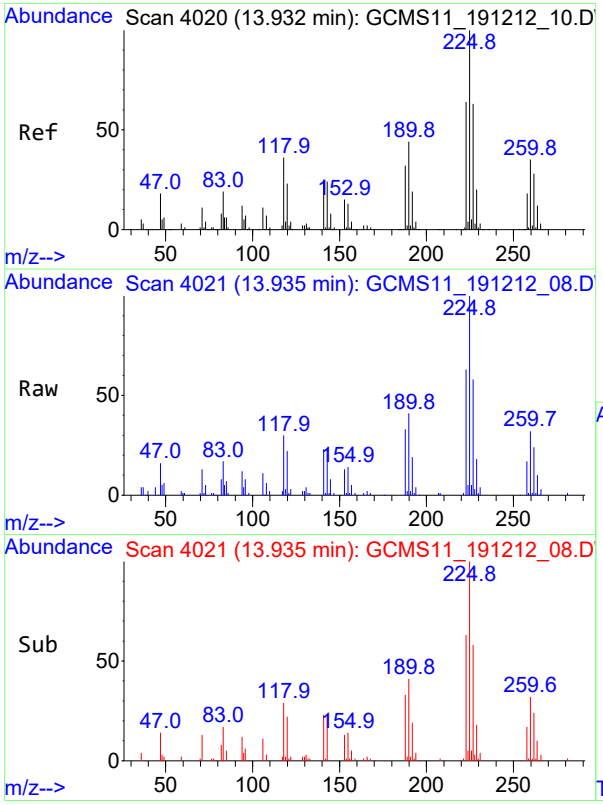


#73
1,2,4-Trichlorobenzene
Concen: 122.95 ng
RT: 13.749 min Scan# 3963
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:180 Resp: 81856

Ion	Ratio	Lower	Upper
180	100		
182	97.2	66.7	126.7
145	28.3	0.0	58.2

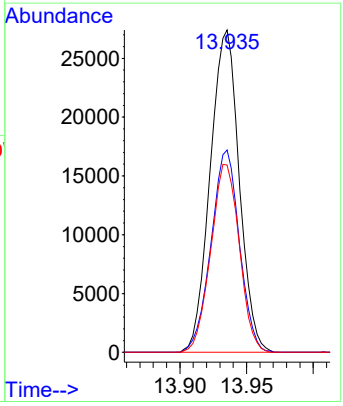


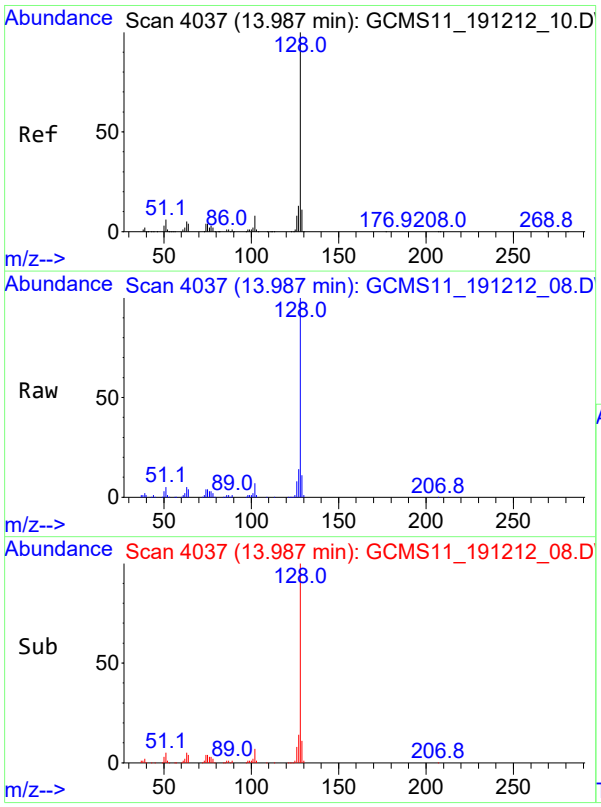


#74
Hexachlorobutadiene
Concen: 133.72 ng
RT: 13.935 min Scan# 4021
Delta R.T. 0.003 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:225 Resp: 41482

Ion	Ratio	Lower	Upper
225	100		
223	61.4	1242.7	1302.7#
227	57.3	19.6	79.6

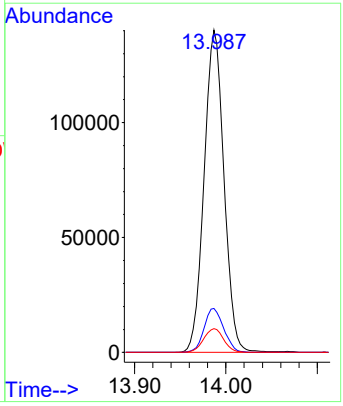


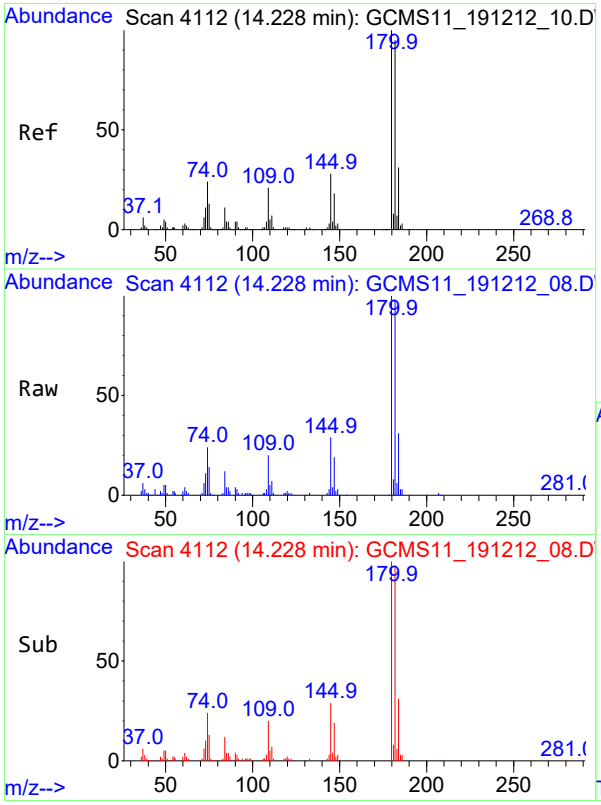


#75
Naphthalene
Concen: 124.42 ng
RT: 13.987 min Scan# 4037
Delta R.T. -0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:128 Resp: 212123

Ion	Ratio	Lower	Upper
128	100		
127	13.5	0.0	43.5
102	7.4	0.0	37.4

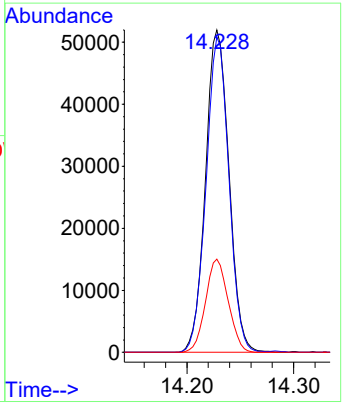




#76
1,2,3-Trichlorobenzene
Concen: 115.89 ng
RT: 14.228 min Scan# 4112
Delta R.T. -0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:180 Resp: 79385

Ion	Ratio	Lower	Upper
180	100		
182	95.3	66.7	126.7
145	27.9	0.0	58.4



Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_09.D
Acq On : 12 Dec 2019 3:00 pm
Operator : ko
Sample : ICAL 5
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 20 13:23:33 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.257	96	71453	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.440	82	27084	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.765	152	28353	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.460	113	18507	49.32	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.852	65	22038	49.28	ng	0.00
37) TOLUENE-D8	7.987	98	70664	50.29	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.617	95	23674	48.21	ng	0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.129	85	81796	246.18	ng	98
3) Chloromethane	1.267	50	73494	242.12	ng	97
4) Vinyl chloride	1.357	62	94595	245.86	ng	100
5) Bromomethane	1.608	96	75973	236.62	ng	99
6) Chloroethane	1.695	64	69087	245.62	ng	98
7) Trichlorofluoromethane	1.923	101	127196	256.32	ng	95
9) 1,1-Dichloroethene	2.421	96	97244	261.85	ng	96
12) Methylene chloride	2.971	84	109158	243.08	ng	97
14) trans-1,2-Dichloroethene	3.319	96	111268	266.15	ng	94
16) 1,1-Dichloroethane	3.926	63	184797	267.67	ng	99
17) 2,2-Dichloropropane	4.781	77	147900	259.21	ng	98
18) cis-1,2-Dichloroethene	4.801	96	117809	261.09	ng	94
20) Bromochloromethane	5.116	128	65101	265.44	ng	99
21) Chloroform	5.257	83	181203	263.28	ng	97
23) 1,1,1-Trichloroethane	5.447	97	162630	259.75	ng	98
24) Carbon tetrachloride	5.650	117	147373	261.98	ng	99
25) 1,1-Dichloropropene	5.662	75	130530	255.70	ng	99
27) Benzene	5.907	78	446612	257.86	ng	99
28) 1,2-Dichloroethane	5.945	62	150856	259.16	ng	98
29) Trichloroethene	6.675	95	107354	262.65	ng	96
30) 1,2-Dichloropropane	6.916	63	100608	261.96	ng	98
31) Dibromomethane	7.042	93	80917	258.82	ng	99
33) Bromodichloromethane	7.238	83	143993	265.64	ng	98
35) cis-1,3-Dichloropropene	7.720	75	162502	270.54	ng	98
38) Toluene	8.055	92	250251	258.28	ng	99
40) trans-1,3-Dichloropropene	8.305	75	154776	262.11	ng	98
41) 1,1,2-Trichloroethane	8.482	83	85431	251.58	ng	97
42) Tetrachloroethene	8.608	164	89317	261.97	ng	99
43) 1,3-Dichloropropane	8.646	76	172138	261.71	ng	99
45) Dibromochloromethane	8.868	129	134564	266.96	ng	99
46) 1,2-Dibromoethane (EDB)	8.965	107	109279	253.81	ng	94
47) Chlorobenzene	9.469	112	295740	254.22	ng	99
48) 1,1,1,2-Tetrachloroethane	9.563	131	114912	256.49	ng	97
49) Ethylbenzene	9.595	106	156163	260.47	ng	98
50) m+p-Xylene	9.714	106	387200	510.47	ng	99
51) o-Xylene	10.106	106	188732	257.56	ng	94
52) Styrene	10.119	103	177877	256.64	ng	99
53) Bromoform	10.289	173	93854	257.17	ng	96
54) Isopropylbenzene	10.479	105	498593	257.73	ng	99
56) Bromobenzene	10.756	156	131631	259.15	ng	98
57) 1,2,3-Trichloropropane	10.813	75	111541	250.64	ng	99

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_09.D
Acq On : 12 Dec 2019 3:00 pm
Operator : ko
Sample : ICAL 5
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 20 13:23:33 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

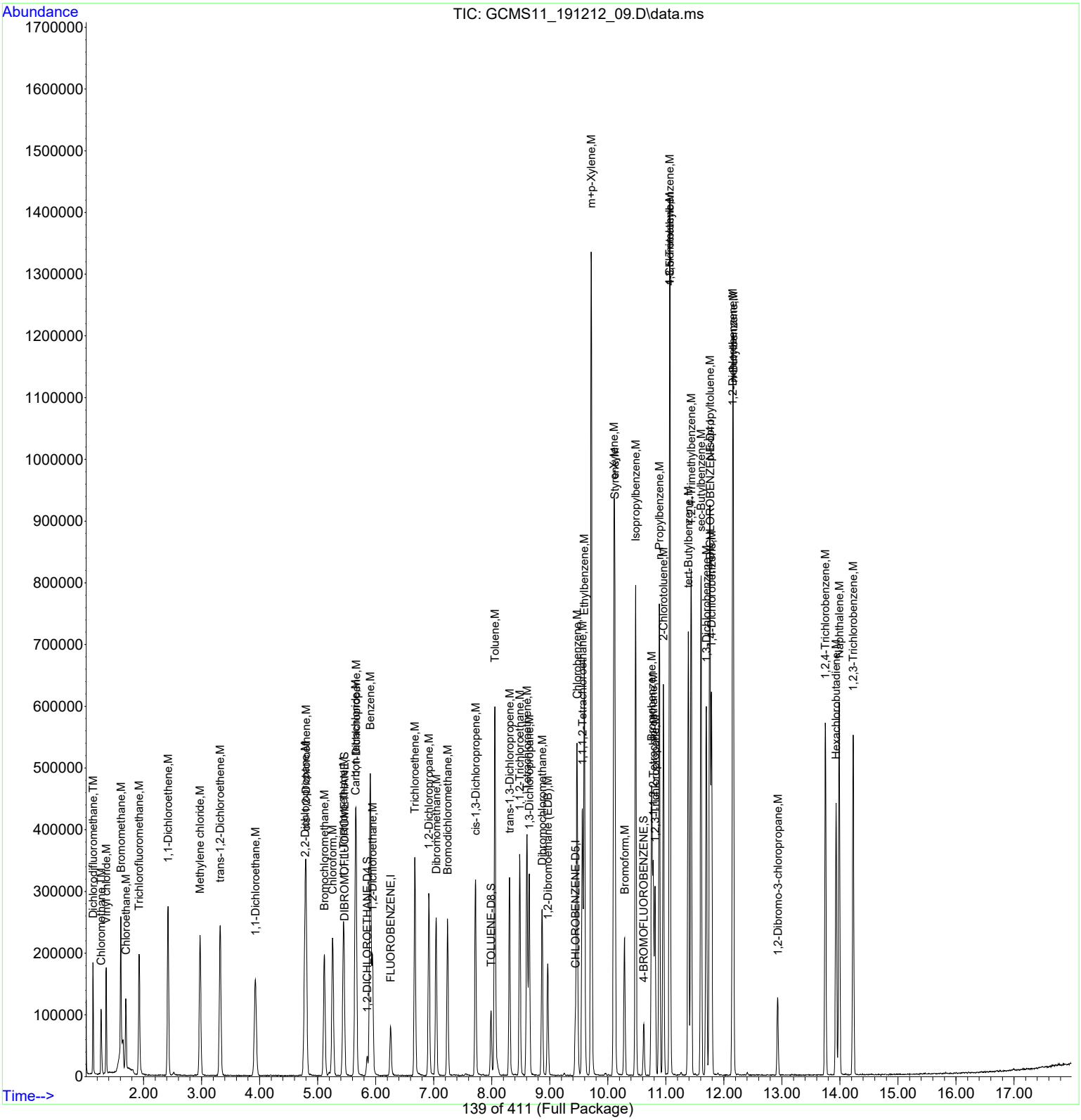
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
58) n-Propylbenzene	10.887	91	557262	256.13 ng		99
59) 2-Chlorotoluene	10.958	91	324050	254.87 ng		98
60) 1,3,5-Trimethylbenzene	11.067	105	401911	255.07 ng		99
61) 4-Chlorotoluene	11.067	91	371115	250.20 ng		98
63) 1,1,2,2-Tetrachloroethane	10.781	83	140193	275.51 ng		100
64) tert-Butylbenzene	11.389	119	362699	289.90 ng		99
65) 1,2,4-Trimethylbenzene	11.437	105	426534	278.76 ng		100
66) sec-Butylbenzene	11.608	105	525025	279.63 ng		99
67) 1,3-Dichlorobenzene	11.698	146	241236	275.56 ng		98
68) p-Isopropyltoluene	11.759	119	459883	279.75 ng		100
69) 1,4-Dichlorobenzene	11.788	146	242319	271.92 ng		97
70) 1,2-Dichlorobenzene	12.151	146	252703	266.97 ng		99
71) n-Butylbenzene	12.164	91	408194	279.26 ng		99
72) 1,2-Dibromo-3-chloropr...	12.929	155	26437	272.00 ng		93
73) 1,2,4-Trichlorobenzene	13.749	180	179740	281.54 ng		96
74) Hexachlorobutadiene	13.935	225	82164	276.20 ng	#	1
75) Naphthalene	13.987	128	472958	289.29 ng		99
76) 1,2,3-Trichlorobenzene	14.228	180	170852	271.64 ng		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_09.D
Acq On : 12 Dec 2019 3:00 pm
Operator : ko
Sample : ICAL 5
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 20 13:23:33 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_10.D
Acq On : 12 Dec 2019 3:28 pm
Operator : ko
Sample : ICAL 6
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 20 13:24:22 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.251	96	72375	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.441	82	27484	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.765	152	33377	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.450	113	19444	51.15	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.846	65	22265	49.15	ng	0.00
37) TOLUENE-D8	7.984	98	72246	50.76	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.621	95	25290	50.75	ng	0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.113	85	162717	483.48	ng	99
3) Chloromethane	1.251	50	146178	475.44	ng	97
4) Vinyl chloride	1.341	62	185432	475.81	ng	100
5) Bromomethane	1.592	96	165732	509.60	ng	98
6) Chloroethane	1.679	64	137024	480.95	ng	99
7) Trichlorofluoromethane	1.910	101	242020	481.50	ng	97
9) 1,1-Dichloroethene	2.405	96	186566	495.98	ng	95
12) Methylene chloride	2.958	84	212114	466.33	ng	98
14) trans-1,2-Dichloroethene	3.303	96	209268	494.18	ng	98
16) 1,1-Dichloroethane	3.910	63	354219	506.53	ng	98
17) 2,2-Dichloropropane	4.772	77	281670	487.37	ng	99
18) cis-1,2-Dichloroethene	4.791	96	230054	503.35	ng	95
20) Bromochloromethane	5.106	128	126363	508.67	ng	97
21) Chloroform	5.251	83	356546	511.45	ng	98
23) 1,1,1-Trichloroethane	5.437	97	314670	496.19	ng	98
24) Carbon tetrachloride	5.640	117	284260	498.89	ng	100
25) 1,1-Dichloropropene	5.656	75	261448	505.64	ng	99
27) Benzene	5.900	78	874420	498.43	ng	99
28) 1,2-Dichloroethane	5.939	62	294750	499.90	ng	99
29) Trichloroethene	6.669	95	204593	494.18	ng	98
30) 1,2-Dichloropropane	6.913	63	193589	497.65	ng	99
31) Dibromomethane	7.035	93	157153	496.26	ng	99
33) Bromodichloromethane	7.235	83	288644	525.71	ng	99
35) cis-1,3-Dichloropropene	7.717	75	327650	538.54	ng	100
38) Toluene	8.052	92	493288	502.63	ng	99
40) trans-1,3-Dichloropropene	8.302	75	311253	519.42	ng	99
41) 1,1,2-Trichloroethane	8.479	83	166340	482.71	ng	97
42) Tetrachloroethene	8.605	164	170645	493.23	ng	98
43) 1,3-Dichloropropane	8.643	76	339726	508.99	ng	100
45) Dibromochloromethane	8.865	129	264642	517.38	ng	99
46) 1,2-Dibromoethane (EDB)	8.965	107	213298	488.20	ng	95
47) Chlorobenzene	9.469	112	592387	501.81	ng	99
48) 1,1,1,2-Tetrachloroethane	9.559	131	228969	503.63	ng	99
49) Ethylbenzene	9.595	106	300065	493.20	ng	96
50) m+p-Xylene	9.714	106	774920	1006.76	ng	99
51) o-Xylene	10.103	106	373616	502.45	ng	94
52) Styrene	10.119	103	357526	508.33	ng	99
53) Bromoform	10.286	173	188921	510.13	ng	97
54) Isopropylbenzene	10.479	105	983687	501.08	ng	98
56) Bromobenzene	10.756	156	265162	514.44	ng	98
57) 1,2,3-Trichloropropane	10.813	75	221983	491.54	ng	98

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_10.D
Acq On : 12 Dec 2019 3:28 pm
Operator : ko
Sample : ICAL 6
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 20 13:24:22 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

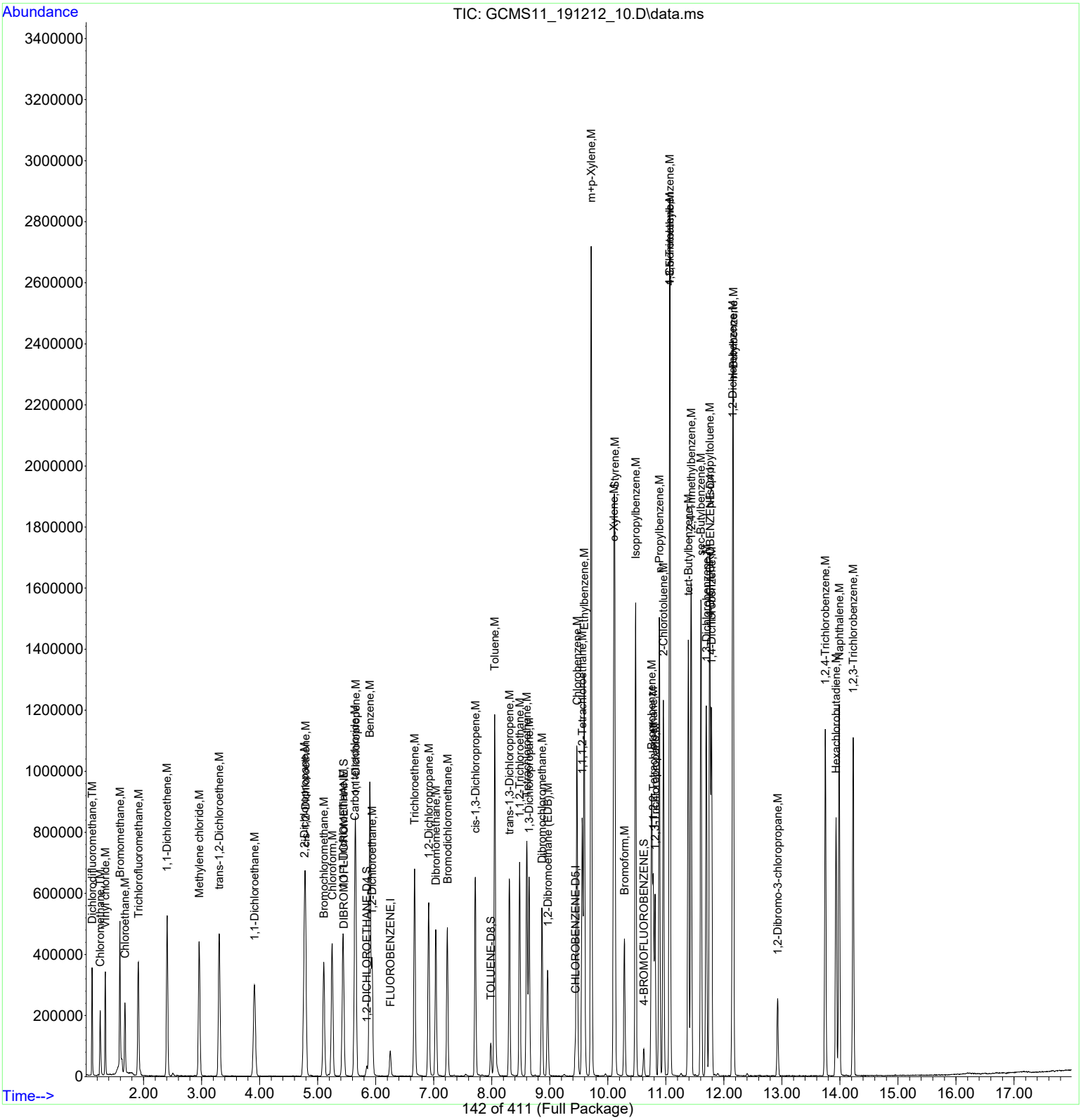
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
58)	n-Propylbenzene	10.887	91	1104834	500.42 ng		99
59)	2-Chlorotoluene	10.958	91	647397	501.77 ng		99
60)	1,3,5-Trimethylbenzene	11.067	105	813264	508.62 ng		100
61)	4-Chlorotoluene	11.067	91	765939	508.86 ng		99
63)	1,1,2,2-Tetrachloroethane	10.781	83	277669	463.55 ng		99
64)	tert-Butylbenzene	11.389	119	709523	481.74 ng		99
65)	1,2,4-Trimethylbenzene	11.437	105	851704	472.85 ng		100
66)	sec-Butylbenzene	11.604	105	1039568	470.34 ng		100
67)	1,3-Dichlorobenzene	11.698	146	492708	478.09 ng		97
68)	p-Isopropyltoluene	11.756	119	912276	471.41 ng		99
69)	1,4-Dichlorobenzene	11.788	146	485418	462.72 ng		97
70)	1,2-Dichlorobenzene	12.151	146	513402	460.74 ng		99
71)	n-Butylbenzene	12.164	91	817636	475.17 ng		100
72)	1,2-Dibromo-3-chloropr...	12.926	155	54483	476.17 ng		89
73)	1,2,4-Trichlorobenzene	13.749	180	355712	473.31 ng		99
74)	Hexachlorobutadiene	13.932	225	163535	466.99 ng	#	1
75)	Naphthalene	13.987	128	935990	486.34 ng		99
76)	1,2,3-Trichlorobenzene	14.228	180	341048	491.37 ng		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_10.D
Acq On : 12 Dec 2019 3:28 pm
Operator : ko
Sample : ICAL 6
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 20 13:24:22 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_61.D
Acq On : 13 Dec 2019 6:21 pm
Operator : ko
Sample : B19L015-MRL1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 16 12:48:13 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.257	96	55970	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.444	82	21826	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.762	152	22123	50.00	ng	#	0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.460	113	15135	51.49	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.852	65	17474	49.88	ng		0.00
37) TOLUENE-D8	7.984	98	58219	52.89	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.620	95	19014	48.05	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.126	85	1369	5.26	ng		97
3) Chloromethane	1.264	50	2897	12.18	ng		93
4) Vinyl chloride	1.351	62	2611	8.66	ng		91
5) Bromomethane	1.611	96	1897	7.54	ng		88
6) Chloroethane	1.701	64	1730	7.85	ng		79
7) Trichlorofluoromethane	1.929	101	2194	5.64	ng		94
9) 1,1-Dichloroethene	2.418	96	1928	6.63	ng		91
11) Carbon disulfide	2.608	76	54	52.99	ng	#	1
12) Methylene chloride	2.974	84	3744	10.64	ng		89
14) trans-1,2-Dichloroethene	3.318	96	2727	8.33	ng		98
16) 1,1-Dichloroethane	3.926	63	4845	8.96	ng		78
17) 2,2-Dichloropropane	4.772	77	2836m	6.35	ng		
18) cis-1,2-Dichloroethene	4.794	96	4186	11.84	ng		94
20) Bromochloromethane	5.116	128	1886	9.82	ng	#	73
21) Chloroform	5.257	83	4598	8.53	ng	#	66
23) 1,1,1-Trichloroethane	5.444	97	4220	8.60	ng		93
24) Carbon tetrachloride	5.646	117	2130	4.83	ng		84
25) 1,1-Dichloropropene	5.653	75	2324	5.81	ng	#	54
27) Benzene	5.904	78	12055	8.89	ng		95
28) 1,2-Dichloroethane	5.942	62	4541	9.96	ng	#	75
29) Trichloroethene	6.675	95	2658	8.30	ng	#	69
30) 1,2-Dichloropropane	6.913	63	2963	9.85	ng	#	93
31) Dibromomethane	7.039	93	2361	9.64	ng		95
33) Bromodichloromethane	7.235	83	4808	11.32	ng		82
35) cis-1,3-Dichloropropene	7.723	75	4839	10.28	ng		92
38) Toluene	8.051	92	6198	8.17	ng		99
40) trans-1,3-Dichloropropene	8.305	75	4356	9.15	ng		83
41) 1,1,2-Trichloroethane	8.485	83	3110	11.36	ng		90
42) Tetrachloroethene	8.604	164	1788	6.51	ng	#	79
43) 1,3-Dichloropropane	8.649	76	5178	9.77	ng		92
45) Dibromochloromethane	8.865	129	3891	9.58	ng	#	98
46) 1,2-Dibromoethane (EDB)	8.965	107	3033	8.74	ng	#	99
47) Chlorobenzene	9.469	112	8115	8.66	ng		90
48) 1,1,1,2-Tetrachloroethane	9.559	131	3058	8.47	ng		83
49) Ethylbenzene	9.598	106	3478	7.20	ng	#	81
50) m+p-Xylene	9.714	106	9137	14.95	ng		98
51) o-Xylene	10.106	106	5085	8.61	ng		95
52) Styrene	10.119	103	4625	8.28	ng		93
53) Bromoform	10.289	173	2273	7.73	ng		91
54) Isopropylbenzene	10.479	105	10172	6.52	ng		99
56) Bromobenzene	10.755	156	4288	10.48	ng		91

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_61.D
Acq On : 13 Dec 2019 6:21 pm
Operator : ko
Sample : B19L015-MRL1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 16 12:48:13 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

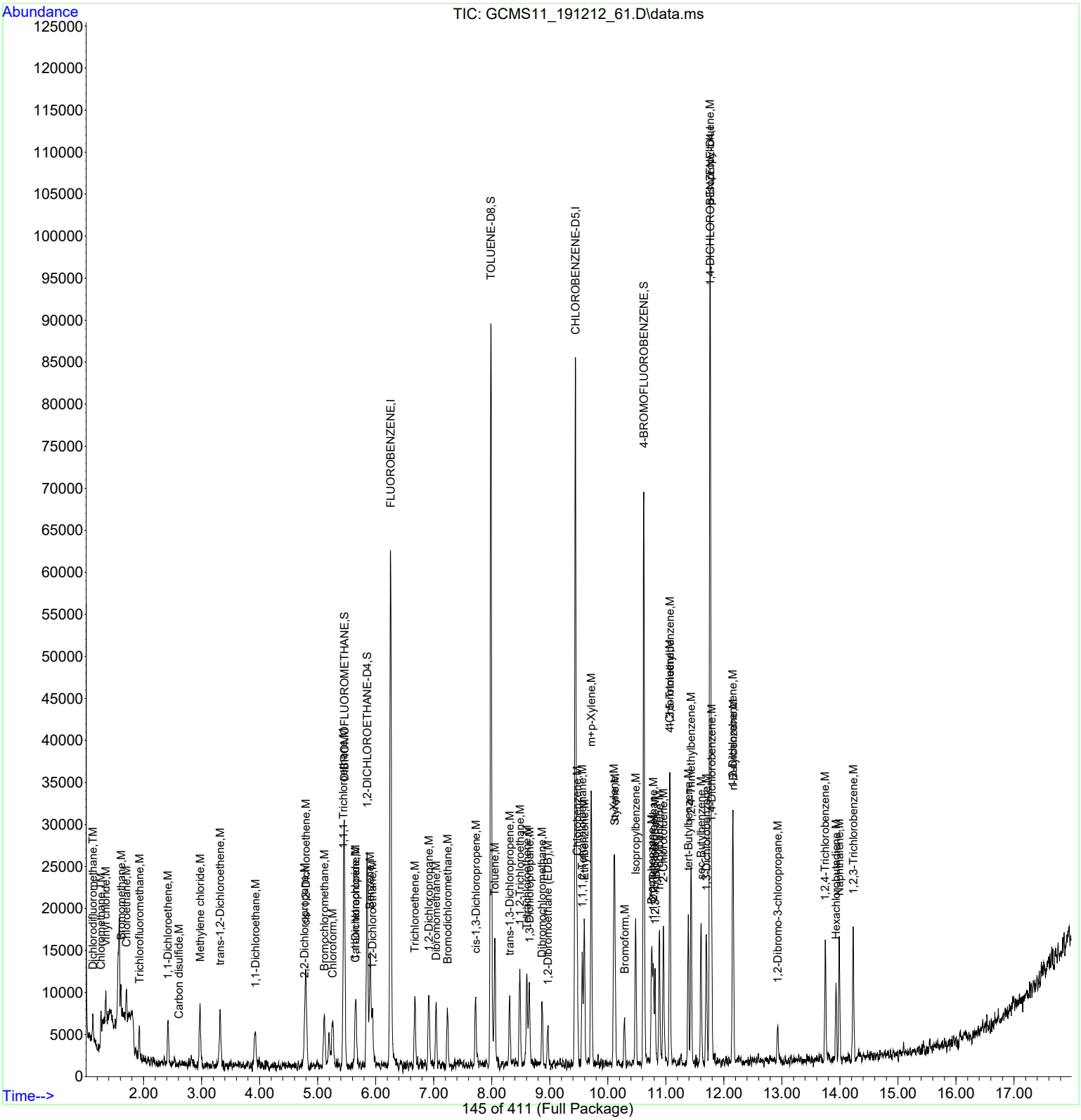
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57)	1,2,3-Trichloropropane	10.813	75	4109	11.46	ng		86
58)	n-Propylbenzene	10.887	91	12160	6.94	ng		99
59)	2-Chlorotoluene	10.958	91	8866	8.65	ng		93
60)	1,3,5-Trimethylbenzene	11.071	105	9505	7.49	ng		99
61)	4-Chlorotoluene	11.067	91	9234	7.73	ng		97
63)	1,1,2,2-Tetrachloroethane	10.784	83	4673	11.77	ng		96
64)	tert-Butylbenzene	11.386	119	7076	7.25	ng		86
65)	1,2,4-Trimethylbenzene	11.434	105	11932	9.99	ng		99
66)	sec-Butylbenzene	11.608	105	10431	7.12	ng		96
67)	1,3-Dichlorobenzene	11.698	146	6002	8.79	ng		95
68)	p-Isopropyltoluene	11.759	119	9438	7.36	ng		96
69)	1,4-Dichlorobenzene	11.788	146	6773	9.74	ng		89
70)	1,2-Dichlorobenzene	12.151	146	7322	9.91	ng		97
71)	n-Butylbenzene	12.161	91	7557	6.63	ng		97
72)	1,2-Dibromo-3-chloropr...	12.926	155	1057	13.94	ng	#	77
73)	1,2,4-Trichlorobenzene	13.746	180	5090	10.22	ng		84
74)	Hexachlorobutadiene	13.932	225	2037	8.78	ng	#	1
75)	Naphthalene	13.990	128	10791	8.46	ng		97
76)	1,2,3-Trichlorobenzene	14.231	180	4398	8.34	ng		98

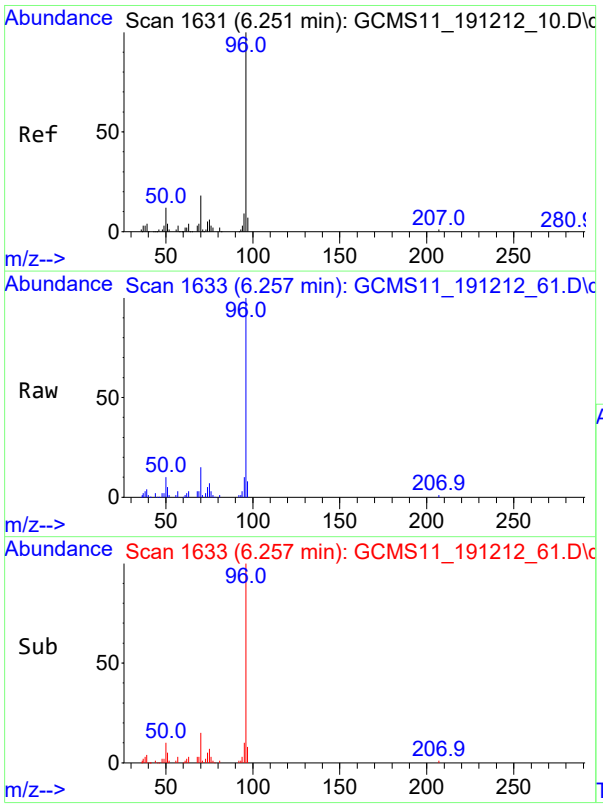
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_61.D
Acq On : 13 Dec 2019 6:21 pm
Operator : ko
Sample : B19L015-MRL1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 16 12:48:13 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

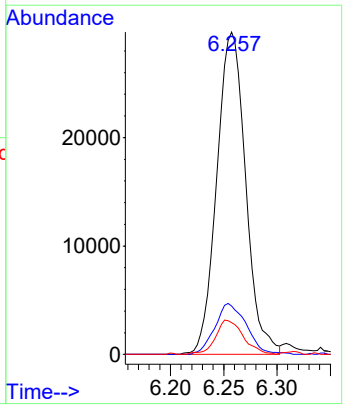


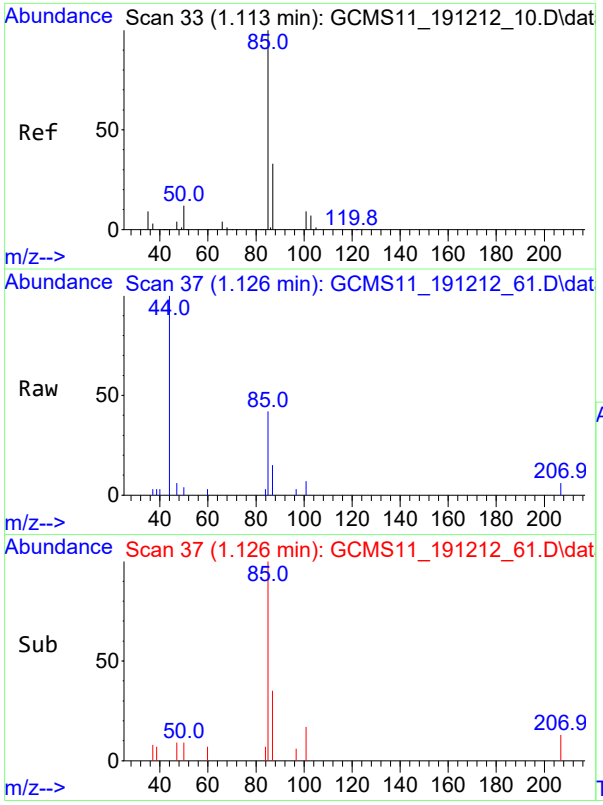


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.257 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 96 Resp: 55970

Ion	Ratio	Lower	Upper
96	100		
70	17.3	0.0	48.3
50	10.2	0.0	39.5

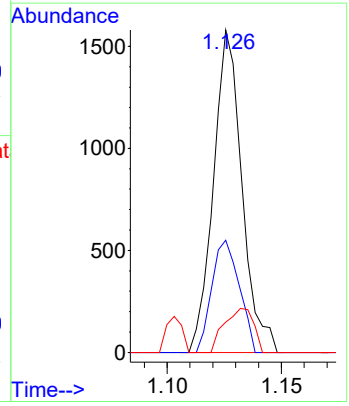


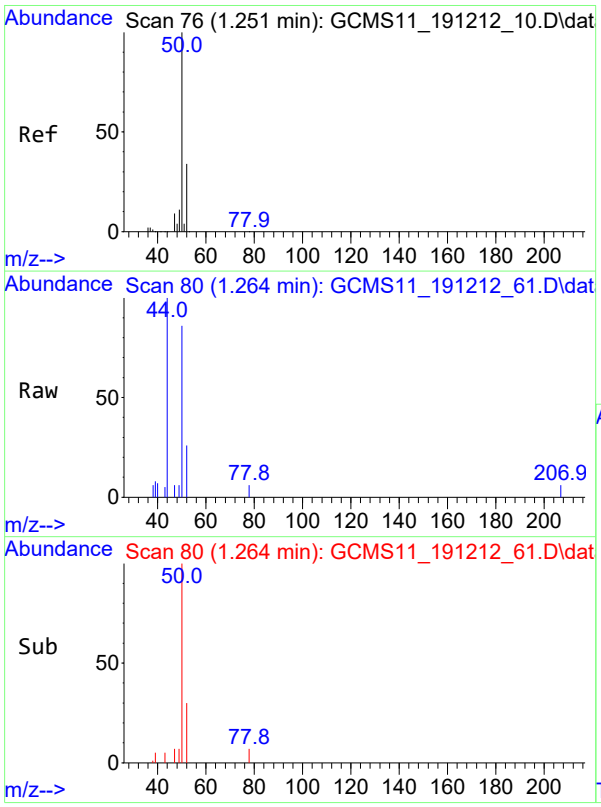


#2
Dichlorodifluoromethane
Concen: 5.26 ng
RT: 1.126 min Scan# 37
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 85 Resp: 1369

Ion	Ratio	Lower	Upper
85	100		
87	33.5	1.8	61.8
50	14.0	0.0	42.2

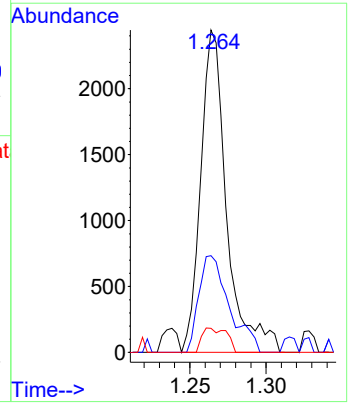


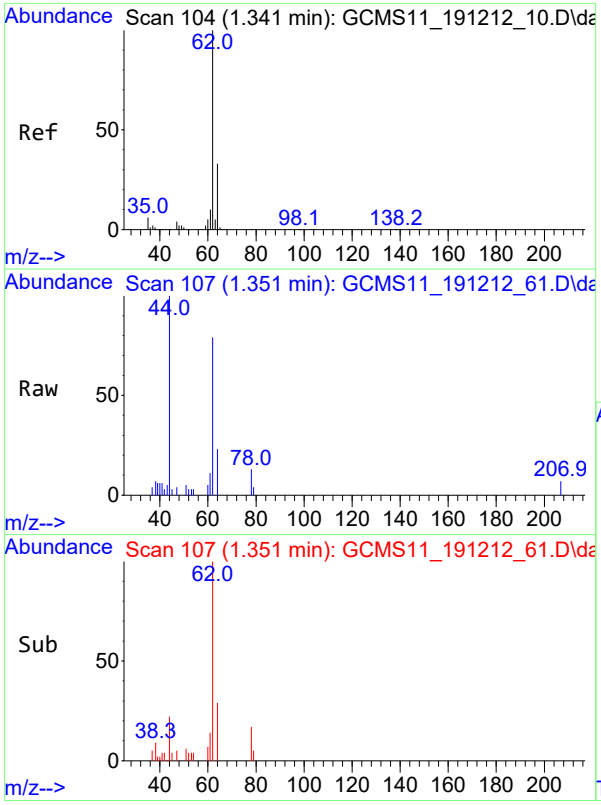


#3
Chloromethane
Concen: 12.18 ng
RT: 1.264 min Scan# 80
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 50 Resp: 2897

Ion	Ratio	Lower	Upper
50	100		
52	35.2	2.0	62.0
49	7.2	0.0	40.7

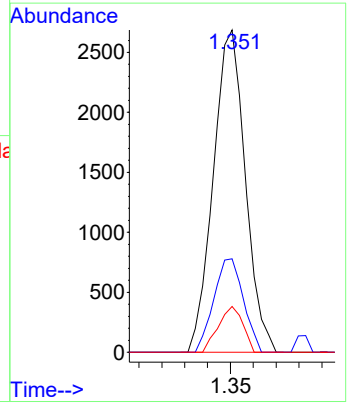


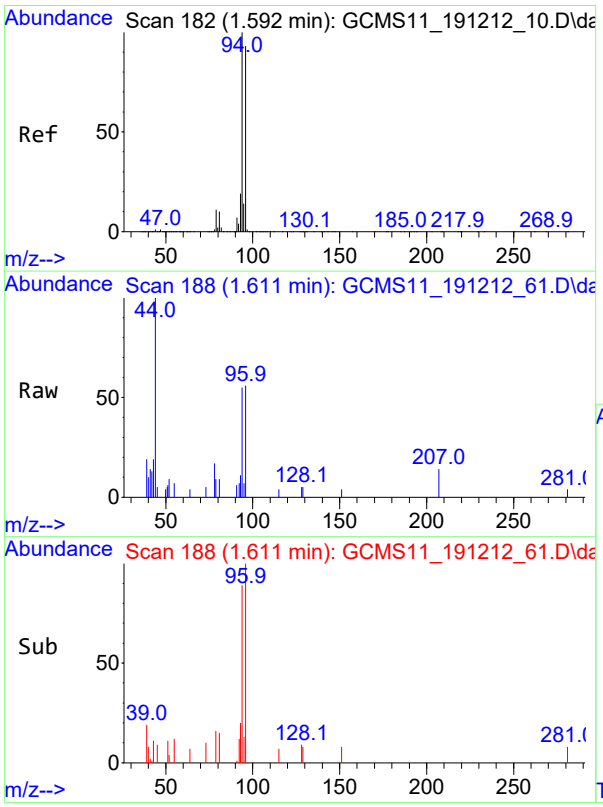


#4
Vinyl chloride
Concen: 8.66 ng
RT: 1.351 min Scan# 107
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 62 Resp: 2611

Ion	Ratio	Lower	Upper
62	100		
64	26.8	2.7	62.7
61	10.9	0.0	39.4

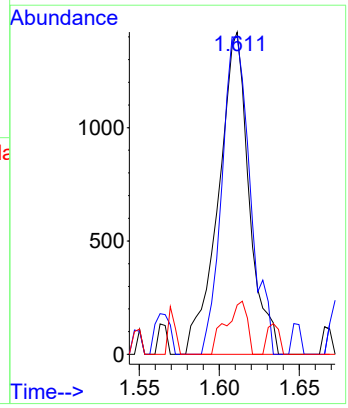


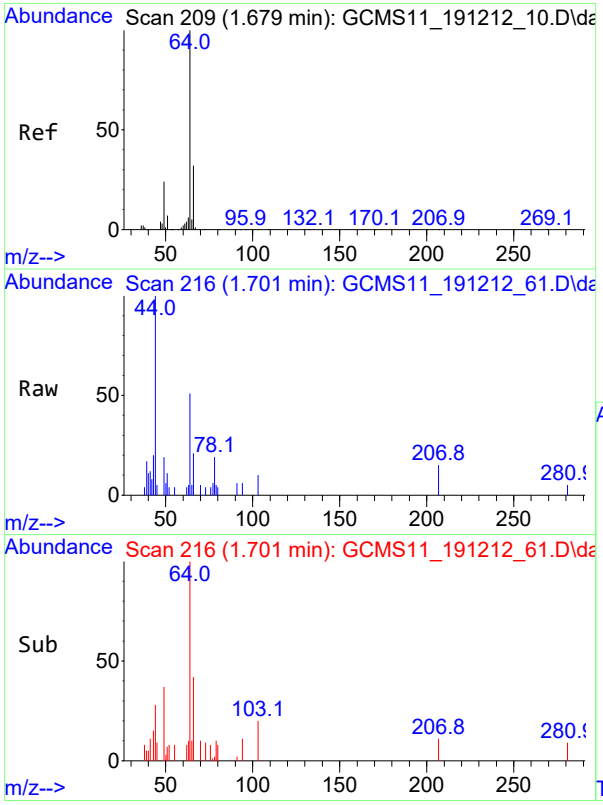


#5
Bromomethane
Concen: 7.54 ng
RT: 1.611 min Scan# 188
Delta R.T. 0.006 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 96 Resp: 1897

Ion	Ratio	Lower	Upper
96	100		
94	91.5	74.8	134.8
81	11.5	0.0	42.0

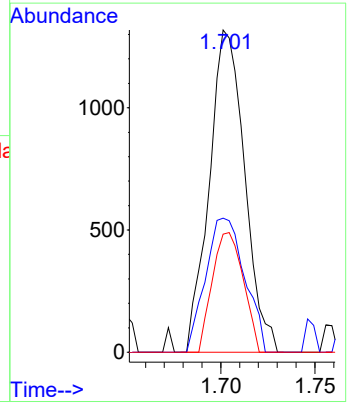


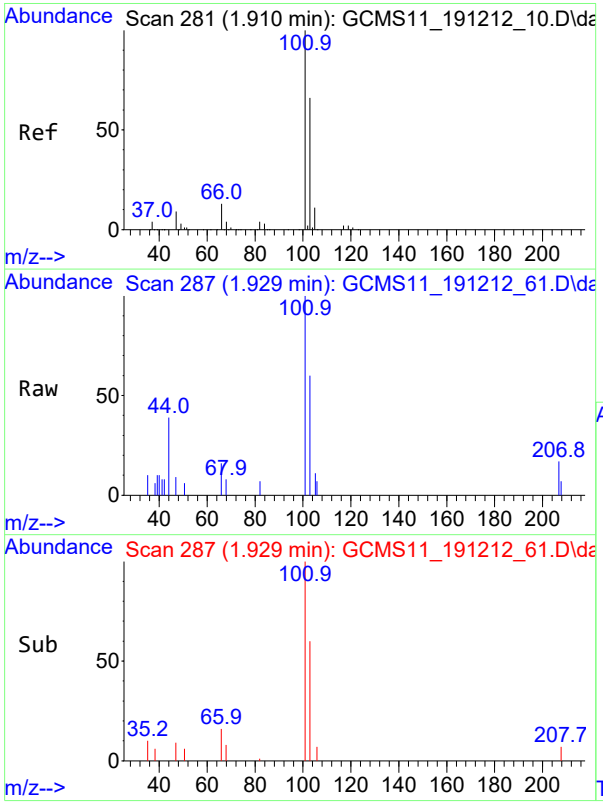


#6
Chloroethane
Concen: 7.85 ng
RT: 1.701 min Scan# 216
Delta R.T. 0.006 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 64 Resp: 1730

Ion	Ratio	Lower	Upper
64	100		
66	45.8	3.3	63.3
49	32.4	0.0	53.3

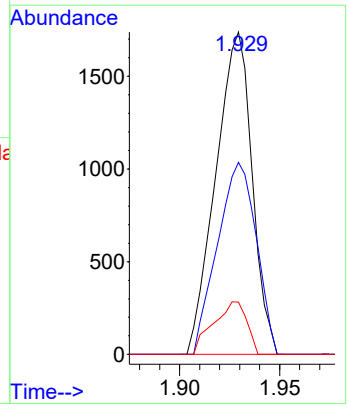


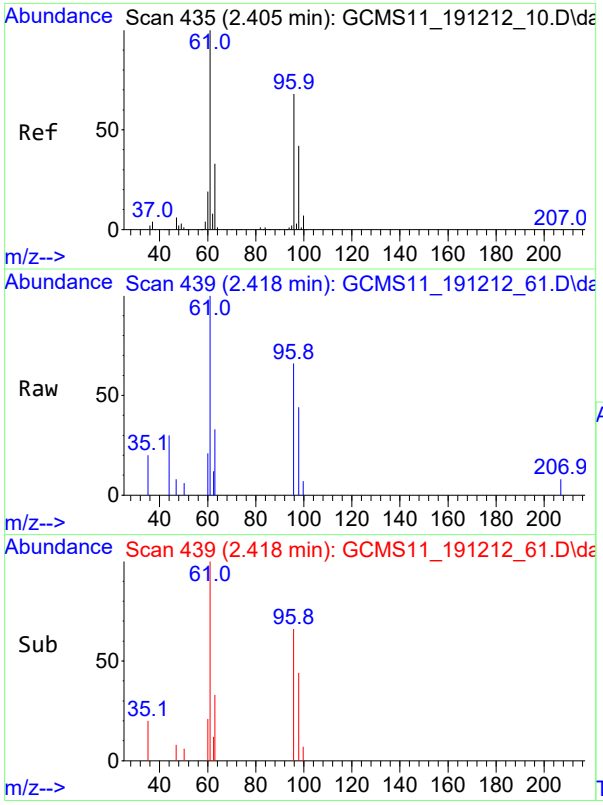


#7
Trichlorofluoromethane
Concen: 5.64 ng
RT: 1.929 min Scan# 287
Delta R.T. 0.006 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:101 Resp: 2194

Ion	Ratio	Lower	Upper
101	100		
103	63.7	38.4	98.4
66	15.0	0.0	43.0

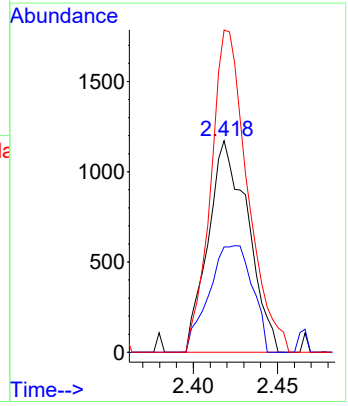


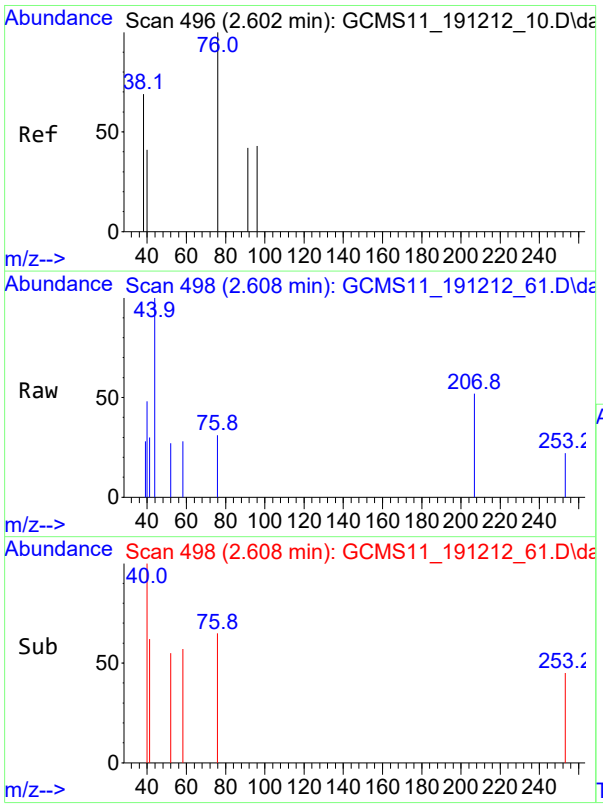


#9
1,1-Dichloroethene
Concen: 6.63 ng
RT: 2.418 min Scan# 439
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 96 Resp: 1928

Ion	Ratio	Lower	Upper
96	100		
63	54.9	20.7	80.7
61	140.7	123.9	183.9

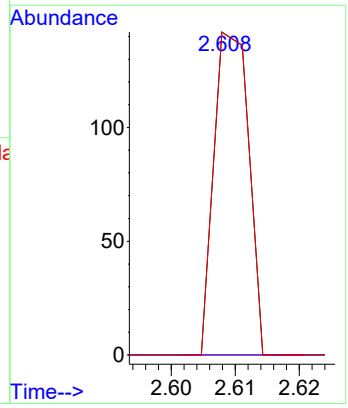


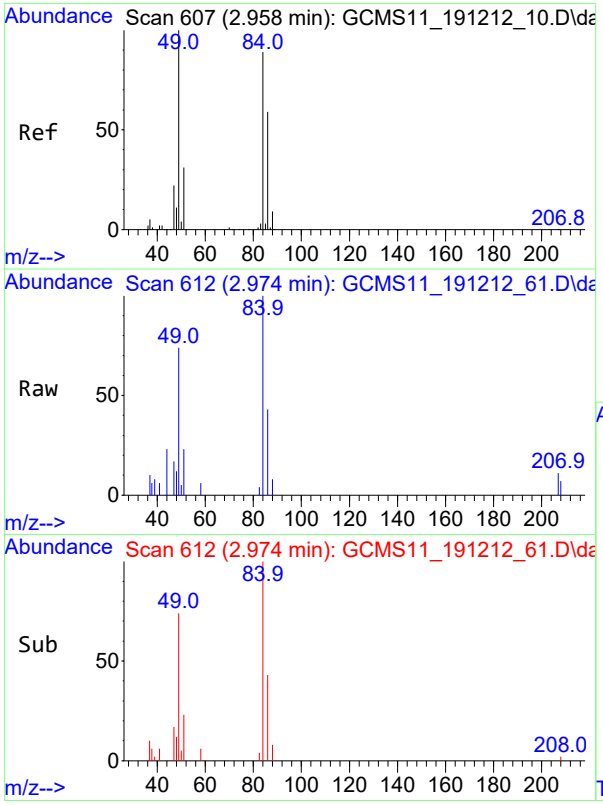


#11
Carbon disulfide
Concen: 52.99 ng
RT: 2.608 min Scan# 498
Delta R.T. -0.016 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 76 Resp: 54

Ion	Ratio	Lower	Upper
76	100		
78	0.0	0.0	30.0
76	100.0	0.0	43.5#

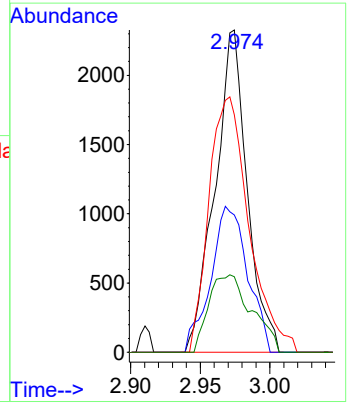


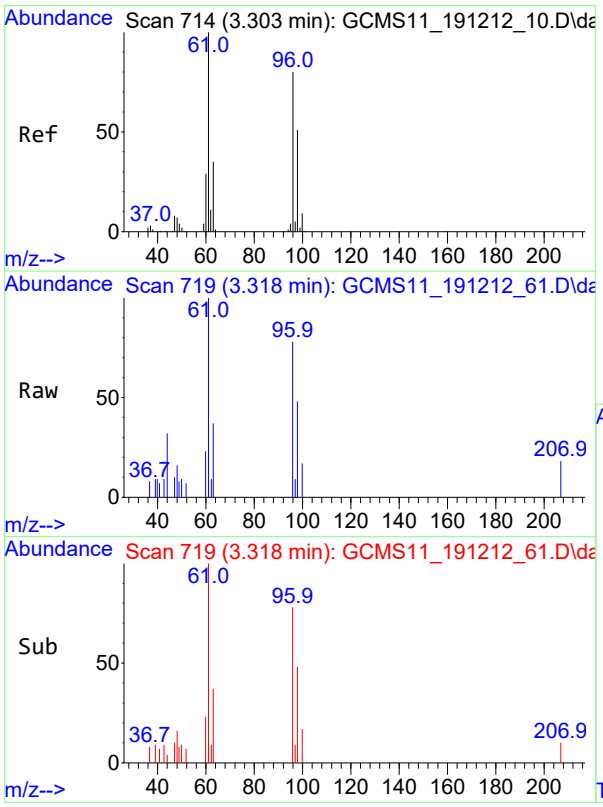


#12
Methylene chloride
Concen: 10.64 ng
RT: 2.974 min Scan# 612
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 84 Resp: 3744

Ion	Ratio	Lower	Upper
84	100		
86	51.9	35.2	95.2
49	98.5	78.3	138.3
51	31.9	4.0	64.0

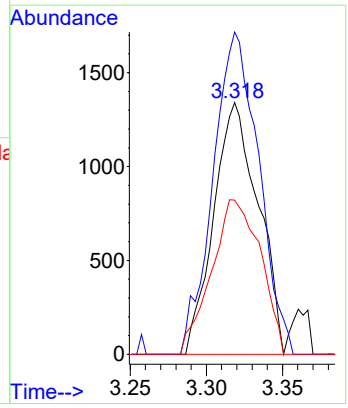


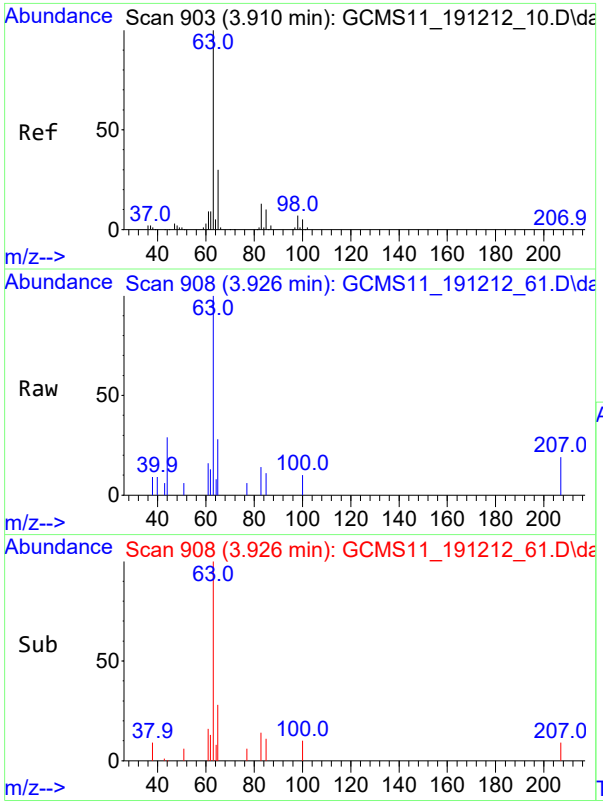


#14
trans-1,2-Dichloroethene
Concen: 8.33 ng
RT: 3.318 min Scan# 719
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 96 Resp: 2727

Ion	Ratio	Lower	Upper
96	100		
61	131.1	99.6	159.6
98	67.4	35.3	95.3

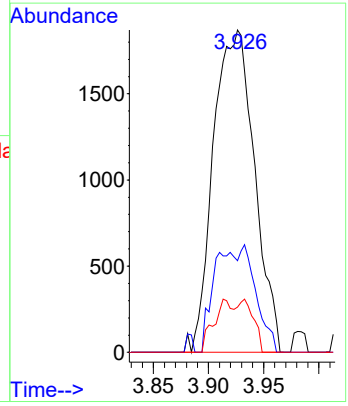


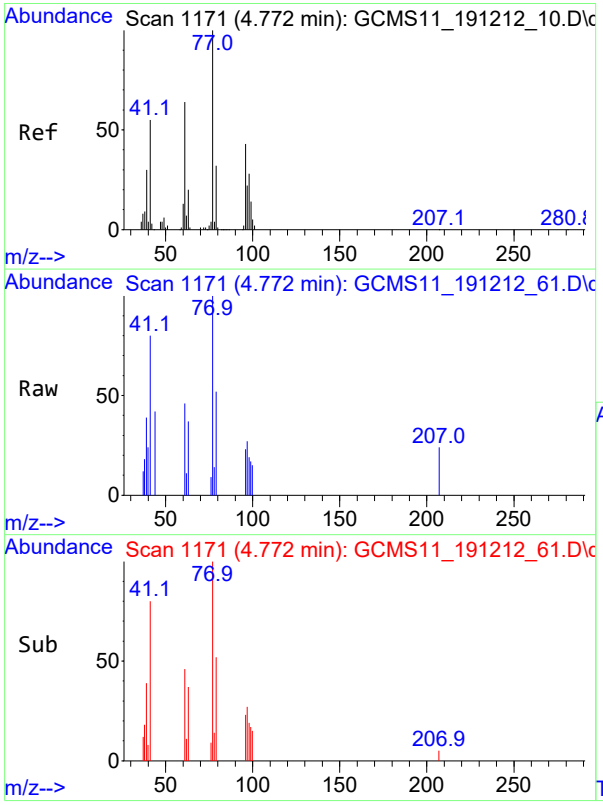


#16
1,1-Dichloroethane
Concen: 8.96 ng
RT: 3.926 min Scan# 908
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 63 Resp: 4845

Ion	Ratio	Lower	Upper
63	100		
65	19.1	2.8	62.8
83	7.8	0.0	44.3

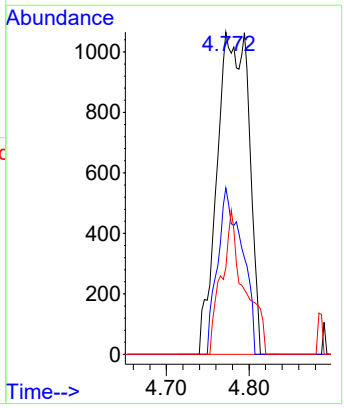


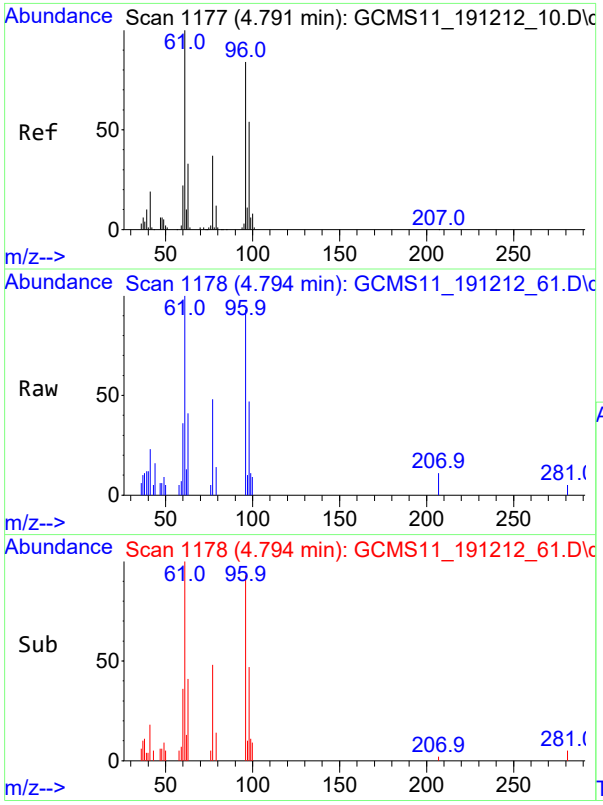


#17
2,2-Dichloropropane
Concen: 6.35 ng m
RT: 4.772 min Scan# 1171
Delta R.T. -0.010 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 77 Resp: 2836

Ion	Ratio	Lower	Upper
77	100		
79	40.0	3.0	63.0
97	32.2	0.0	53.2

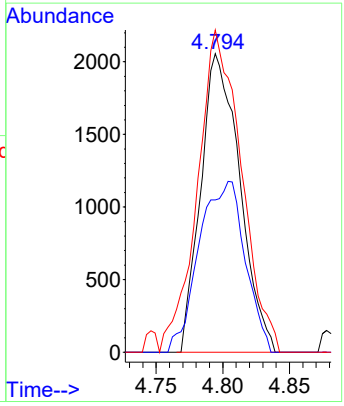


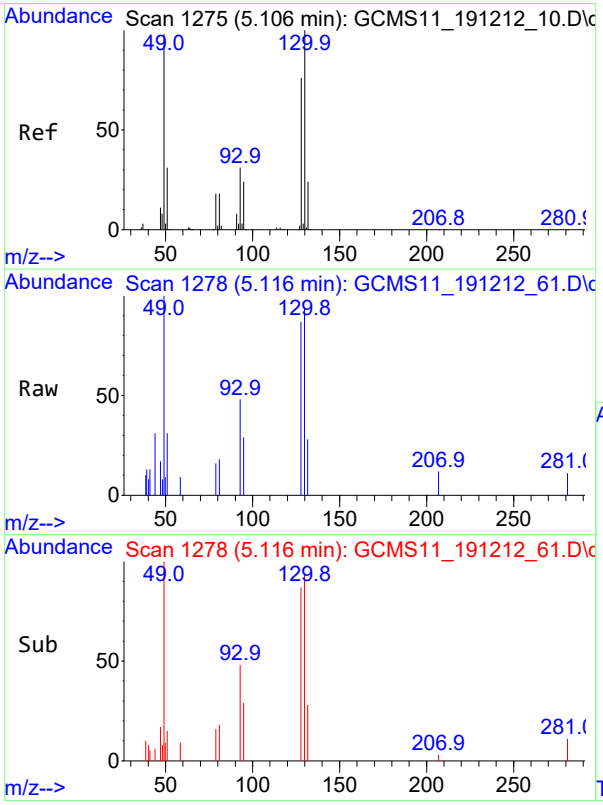


#18
cis-1,2-Dichloroethene
Concen: 11.84 ng
RT: 4.794 min Scan# 1178
Delta R.T. -0.006 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 96 Resp: 4186

Ion	Ratio	Lower	Upper
96	100		
98	67.4	30.6	90.6
61	120.9	96.6	156.6

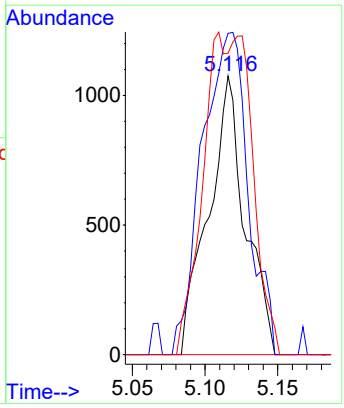


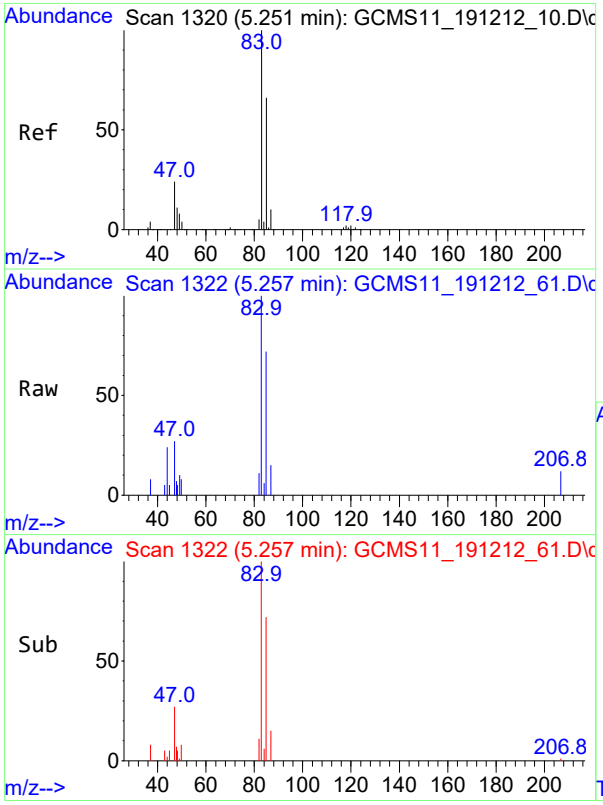


#20
Bromochloromethane
Concen: 9.82 ng
RT: 5.116 min Scan# 1278
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:128 Resp: 1886

Ion	Ratio	Lower	Upper
128	100		
49	144.7	99.5	159.5
130	82.7	99.8	159.8#

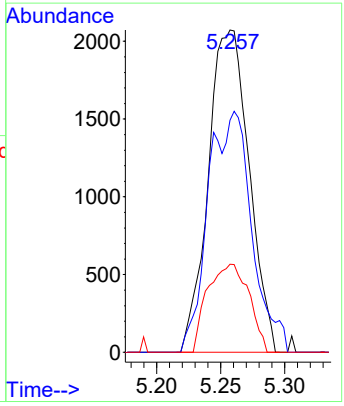


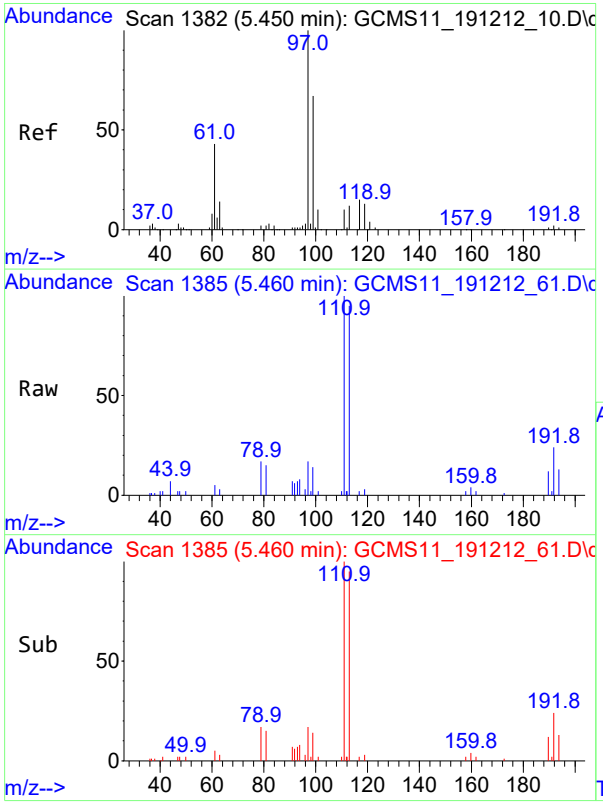


#21
Chloroform
Concen: 8.53 ng
RT: 5.257 min Scan# 1322
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 83 Resp: 4598

Ion	Ratio	Lower	Upper
83	100		
85	31.0	34.2	94.2#
47	27.7	0.0	53.2

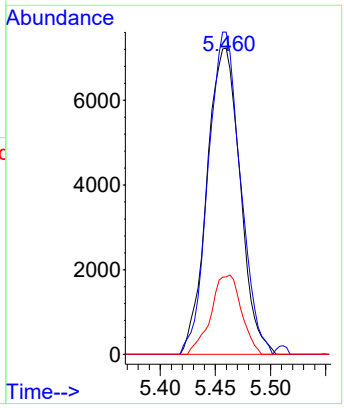


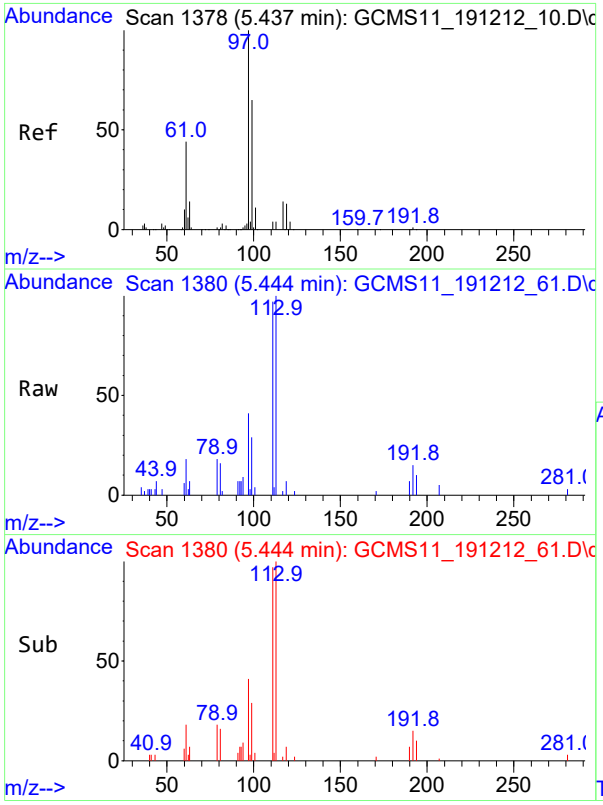


#22
DIBROMOFLUOROMETHANE
Concen: 51.49 ng
RT: 5.460 min Scan# 1385
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:113 Resp: 15135

Ion	Ratio	Lower	Upper
113	100		
111	101.9	75.2	135.2
192	23.7	0.0	52.1

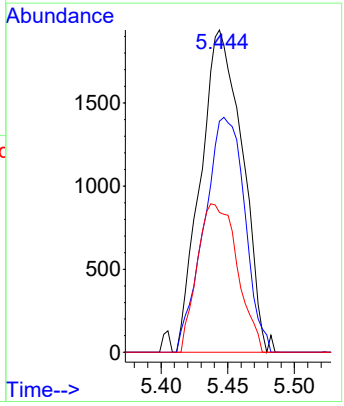


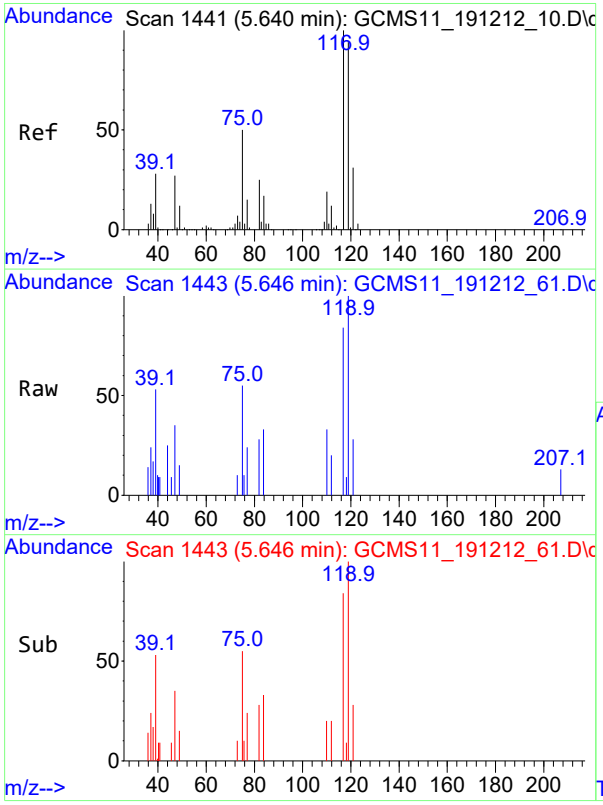


#23
1,1,1-Trichloroethane
Concen: 8.60 ng
RT: 5.444 min Scan# 1380
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 97 Resp: 4220

Ion	Ratio	Lower	Upper
97	100		
99	70.9	32.7	92.7
61	44.3	13.1	73.1

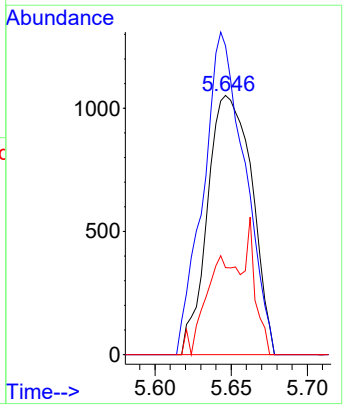


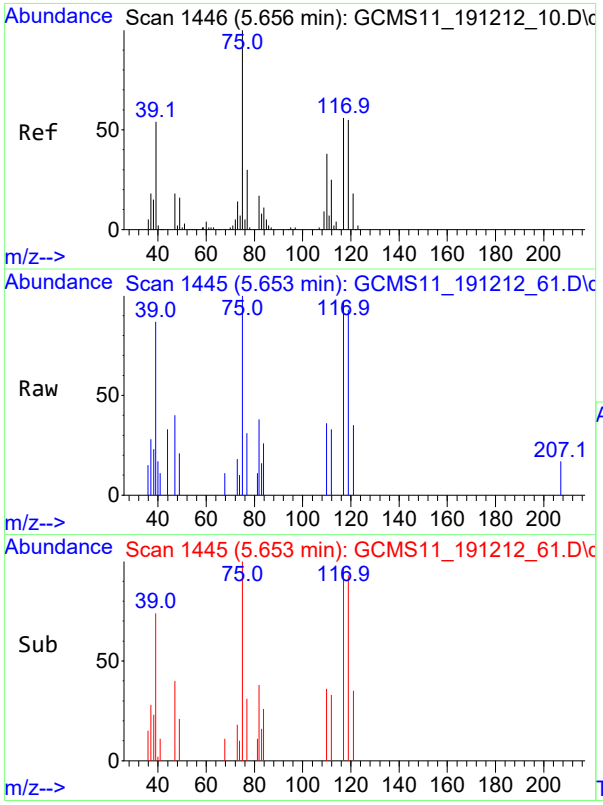


#24
Carbon tetrachloride
Concen: 4.83 ng
RT: 5.646 min Scan# 1443
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:117 Resp: 2130

Ion	Ratio	Lower	Upper
117	100		
119	116.0	66.6	126.6
121	27.8	0.0	59.5

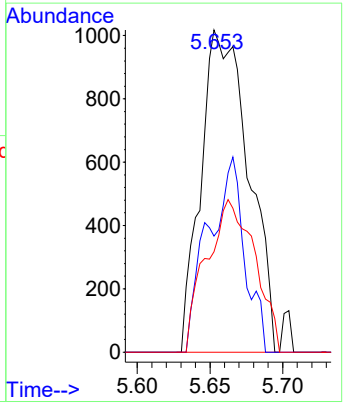


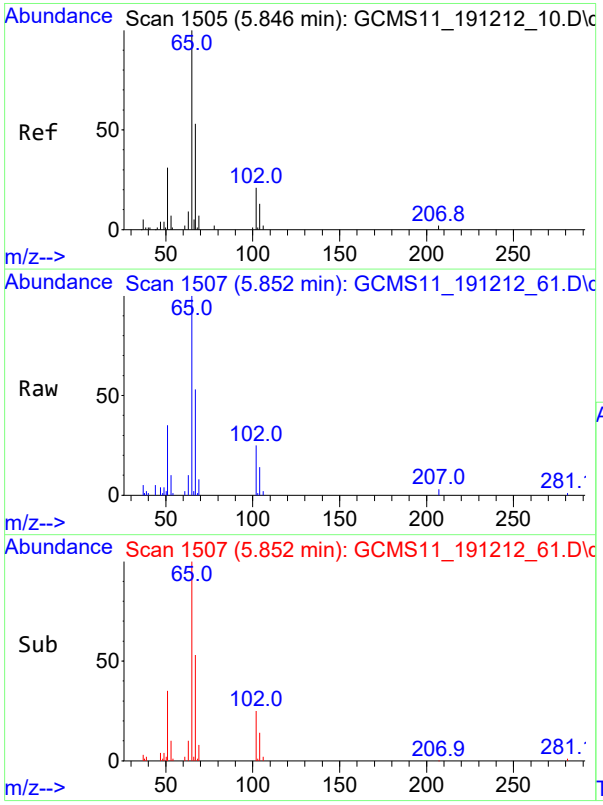


#25
1,1-Dichloropropene
Concen: 5.81 ng
RT: 5.653 min Scan# 1445
Delta R.T. -0.010 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 75 Resp: 2324

Ion	Ratio	Lower	Upper
75	100		
110	15.6	8.8	68.8
77	0.0	1.1	61.1#

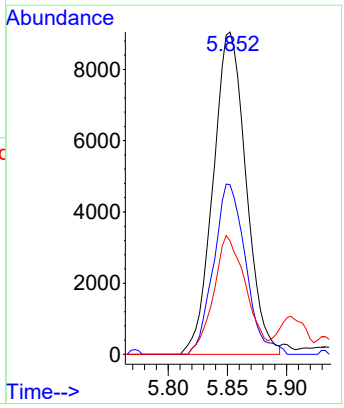


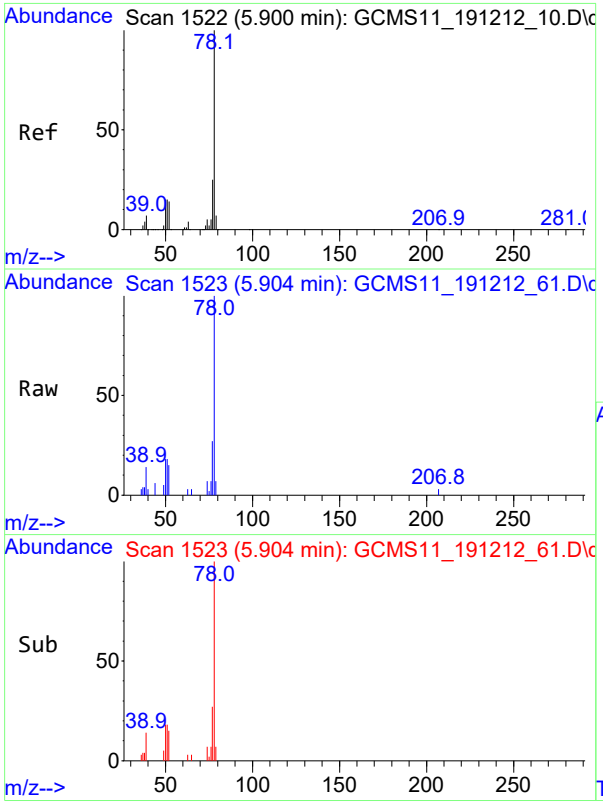


#26
1,2-DICHLOROETHANE-D4
Concen: 49.88 ng
RT: 5.852 min Scan# 1507
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 65 Resp: 17474

Ion	Ratio	Lower	Upper
65	100		
67	51.4	15.4	75.4
51	36.3	2.7	62.7

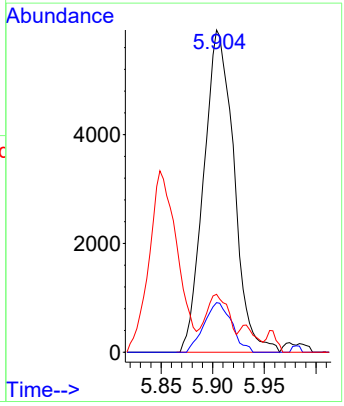


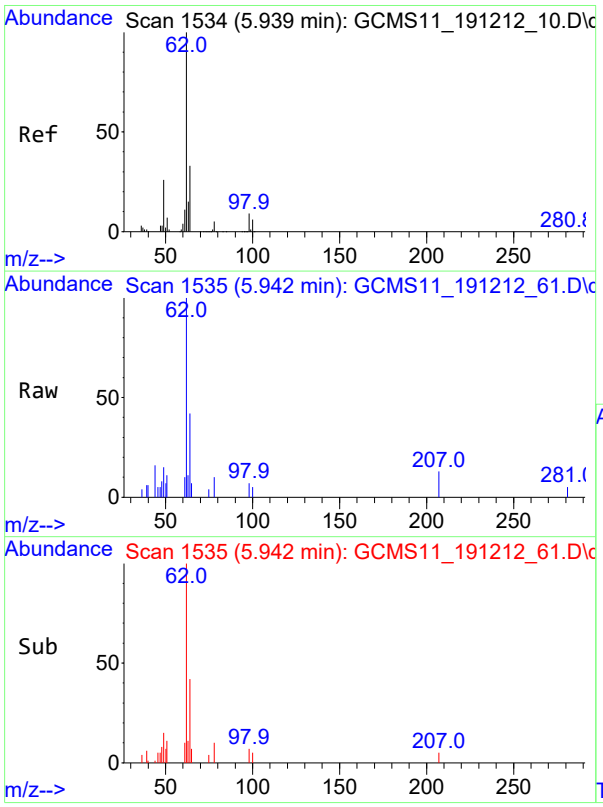


#27
Benzene
Concen: 8.89 ng
RT: 5.904 min Scan# 1523
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 78 Resp: 12055

Ion	Ratio	Lower	Upper
78	100		
52	14.2	0.0	44.0
51	14.4	0.0	48.4

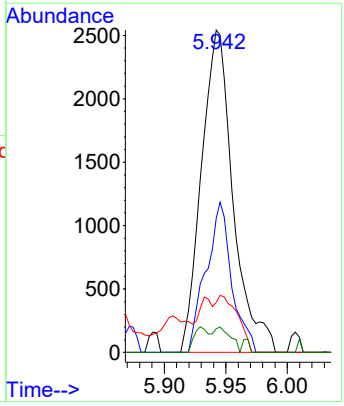


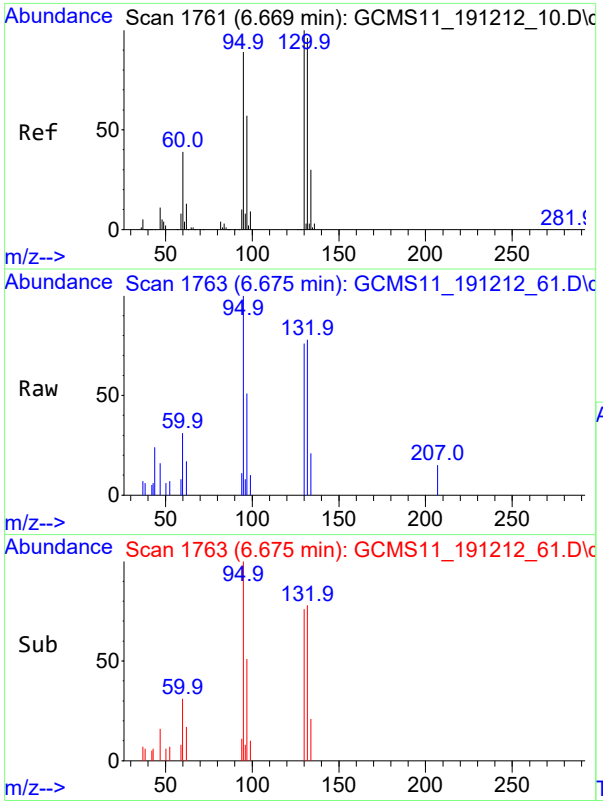


#28
1,2-Dichloroethane
Concen: 9.96 ng
RT: 5.942 min Scan# 1535
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 62 Resp: 4541

Ion	Ratio	Lower	Upper
62	100		
64	37.9	3.2	63.2
49	0.0	0.0	55.4
98	3.9	0.0	39.6

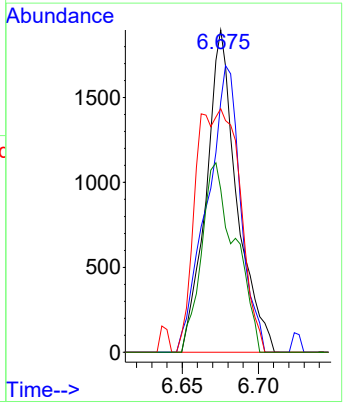


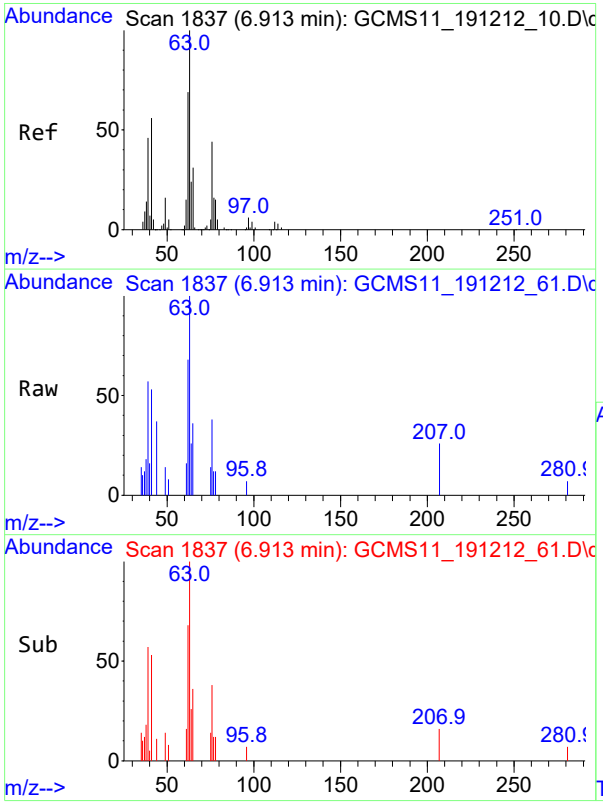


#29
Trichloroethene
Concen: 8.30 ng
RT: 6.675 min Scan# 1763
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 95 Resp: 2658

Ion	Ratio	Lower	Upper
95	100		
132	96.8	78.7	138.7
130	44.9	86.1	146.1#
97	64.6	37.2	97.2

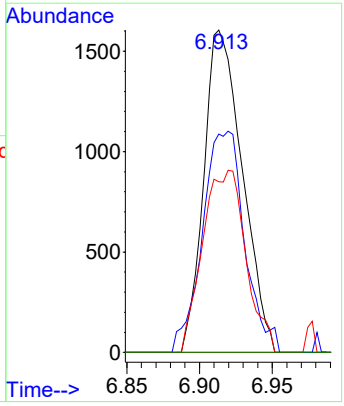


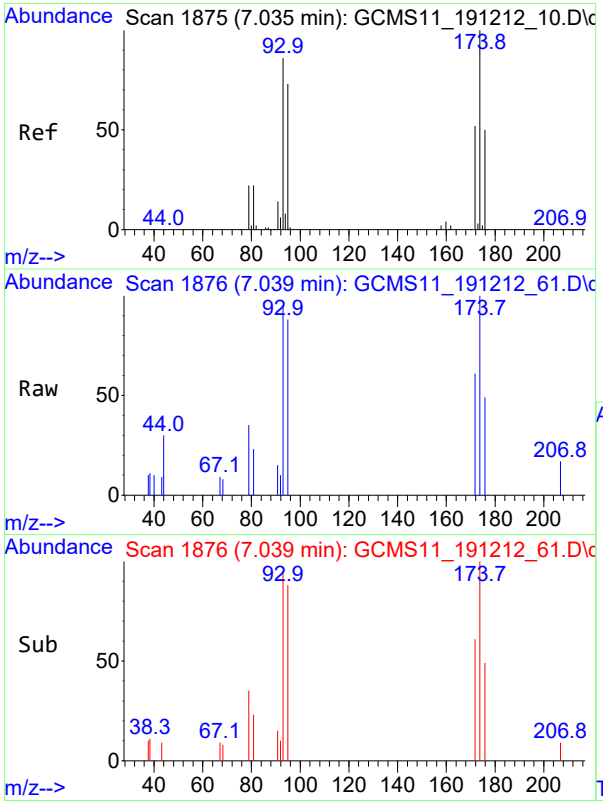


#30
1,2-Dichloropropane
Concen: 9.85 ng
RT: 6.913 min Scan# 1837
Delta R.T. -0.006 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 63 Resp: 2963

Ion	Ratio	Lower	Upper
63	100		
62	74.9	39.8	99.8
41	63.0	27.8	87.8
112	0.0	0.0	34.0

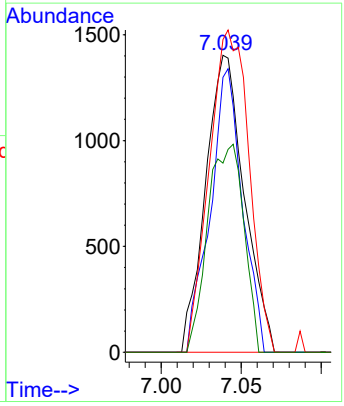


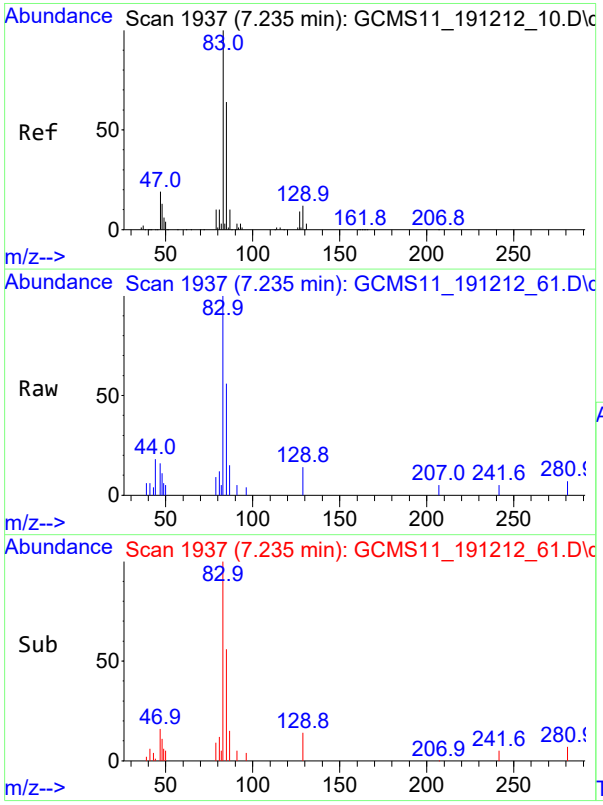


#31
Dibromomethane
Concen: 9.64 ng
RT: 7.039 min Scan# 1876
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 93 Resp: 2361

Ion	Ratio	Lower	Upper
93	100		
95	79.2	50.8	110.8
174	111.8	88.3	148.3
172	65.6	31.3	91.3

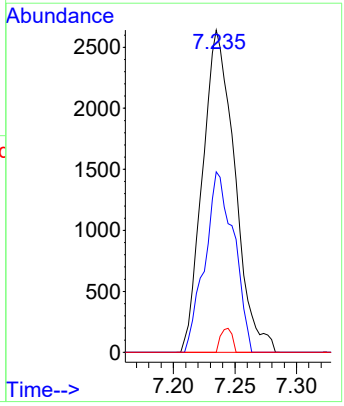


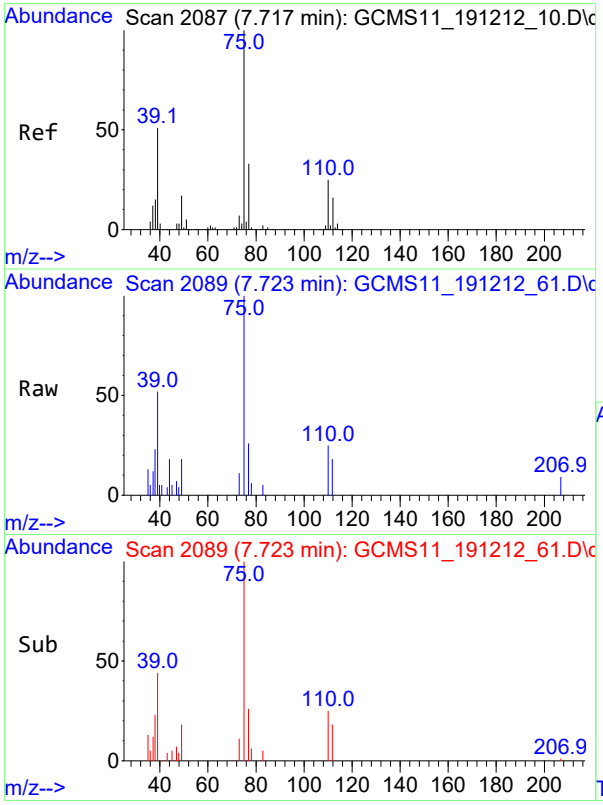


#33
Bromodichloromethane
Concen: 11.32 ng
RT: 7.235 min Scan# 1937
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 83 Resp: 4808

Ion	Ratio	Lower	Upper
83	100		
85	50.5	34.5	94.5
127	2.7	0.0	38.6

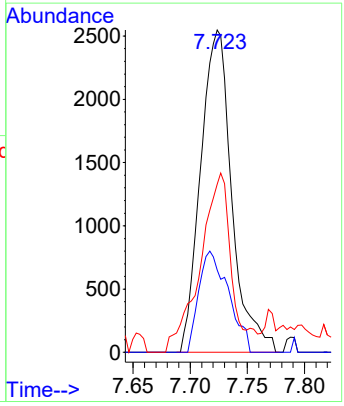


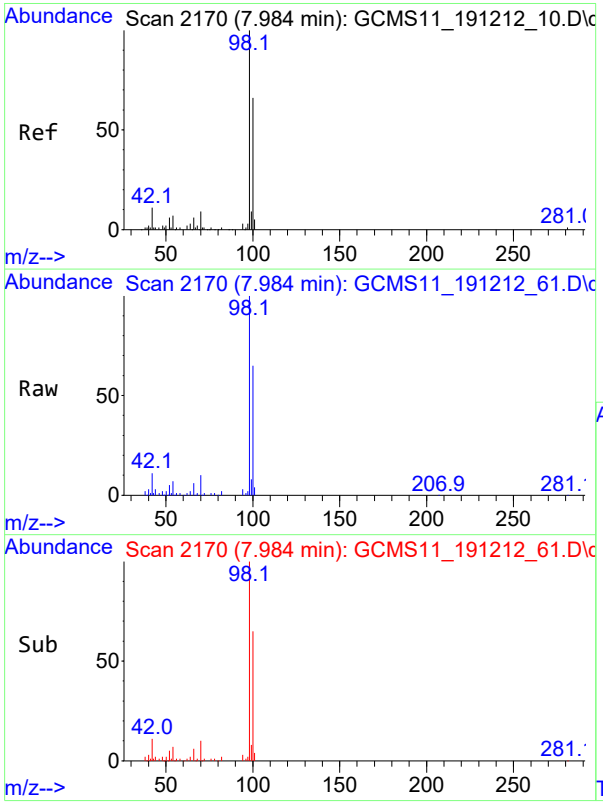


#35
cis-1,3-Dichloropropene
Concen: 10.28 ng
RT: 7.723 min Scan# 2089
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 75 Resp: 4839

Ion	Ratio	Lower	Upper
75	100		
77	29.9	2.5	62.5
39	56.0	18.8	78.8

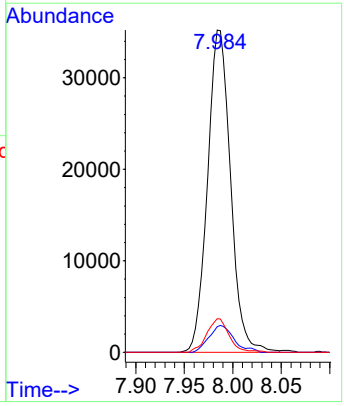


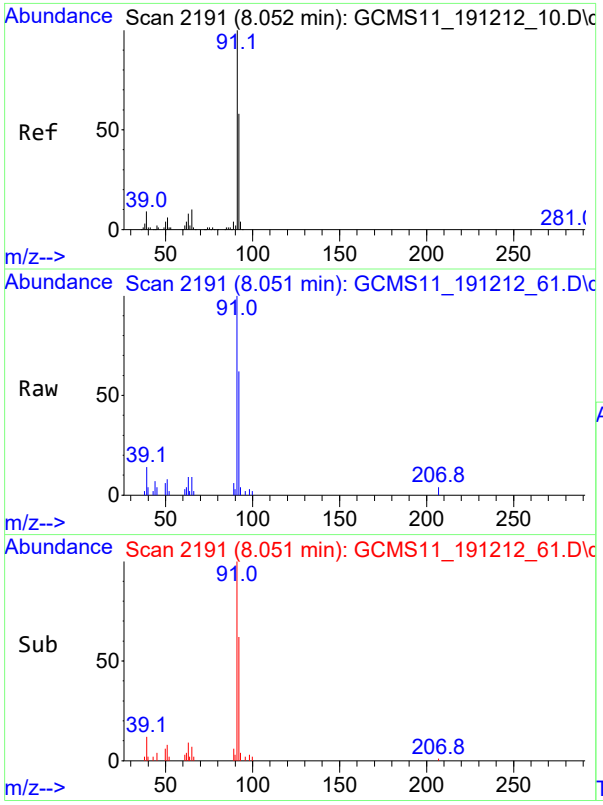


#37
TOLUENE-D8
Concen: 52.89 ng
RT: 7.984 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 98 Resp: 58219

Ion	Ratio	Lower	Upper
98	100		
99	9.1	0.0	39.8
70	10.2	0.0	40.7

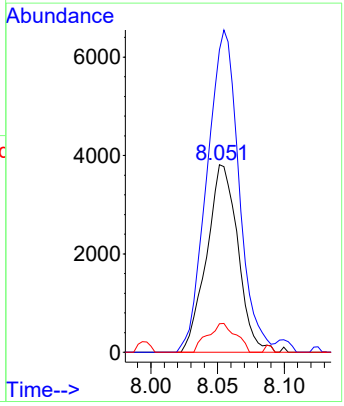


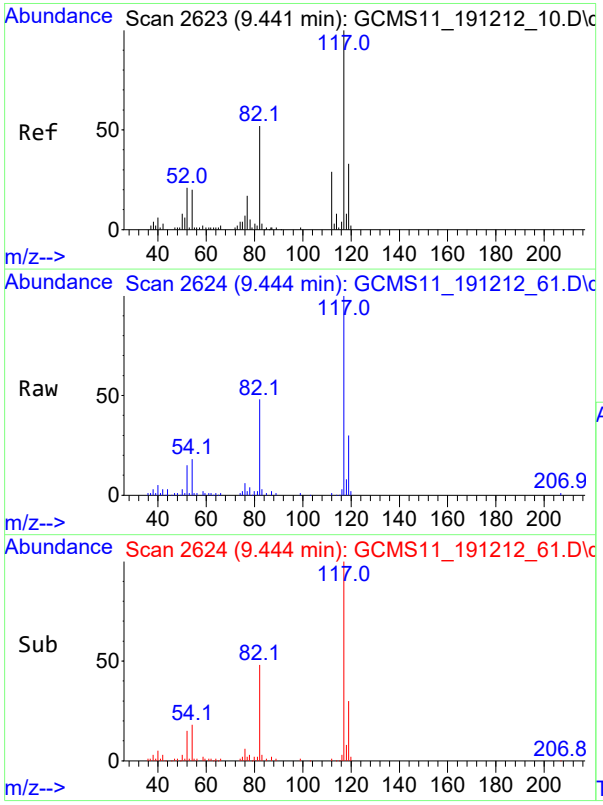


#38
Toluene
Concen: 8.17 ng
RT: 8.051 min Scan# 2191
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 92 Resp: 6198

Ion	Ratio	Lower	Upper
92	100		
91	176.1	145.1	205.1
65	14.0	0.0	48.1

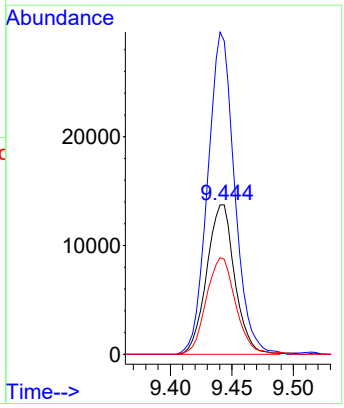


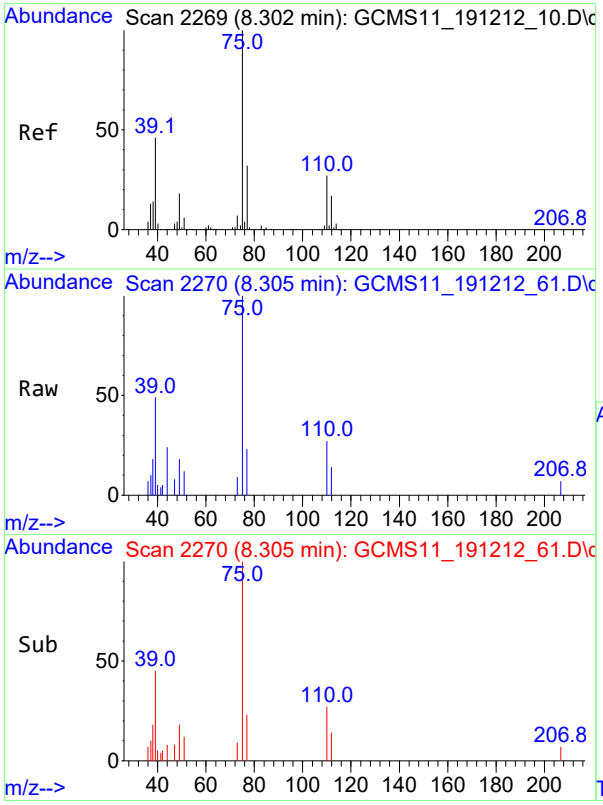


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.444 min Scan# 2624
Delta R.T. 0.004 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 82 Resp: 21826

Ion	Ratio	Lower	Upper
82	100		
117	206.6	160.7	220.7
119	67.5	33.5	93.5

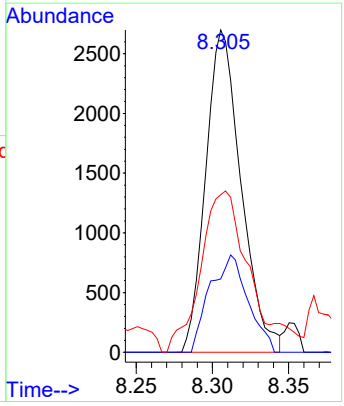


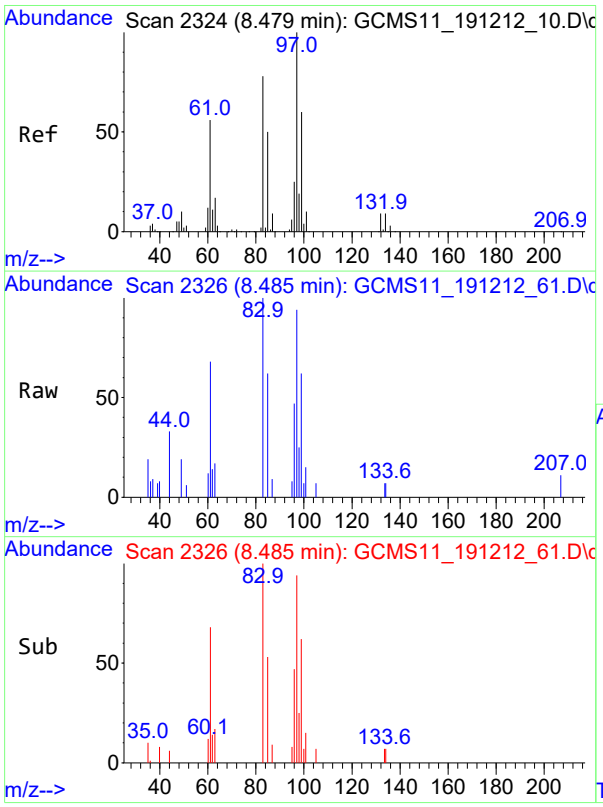


#40
trans-1,3-Dichloropropene
Concen: 9.15 ng
RT: 8.305 min Scan# 2270
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 75 Resp: 4356

Ion	Ratio	Lower	Upper
75	100		
77	32.5	0.7	60.7
39	64.1	17.0	77.0

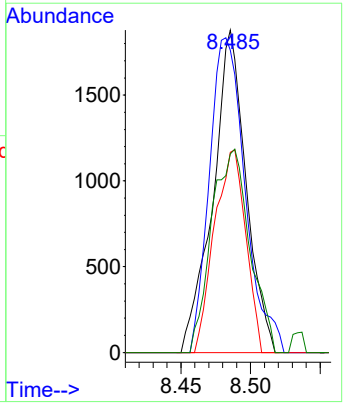


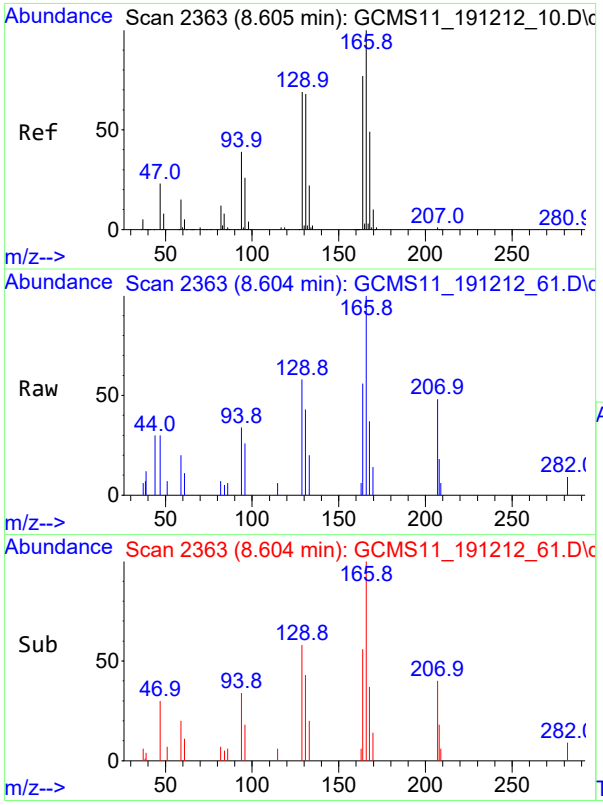


#41
1,1,2-Trichloroethane
Concen: 11.36 ng
RT: 8.485 min Scan# 2326
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 83 Resp: 3110

Ion	Ratio	Lower	Upper
83	100		
97	105.2	90.7	150.7
85	59.1	37.5	97.5
99	72.9	46.8	106.8

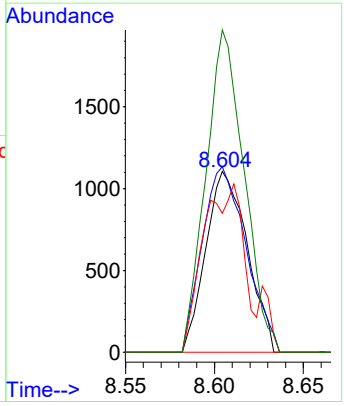


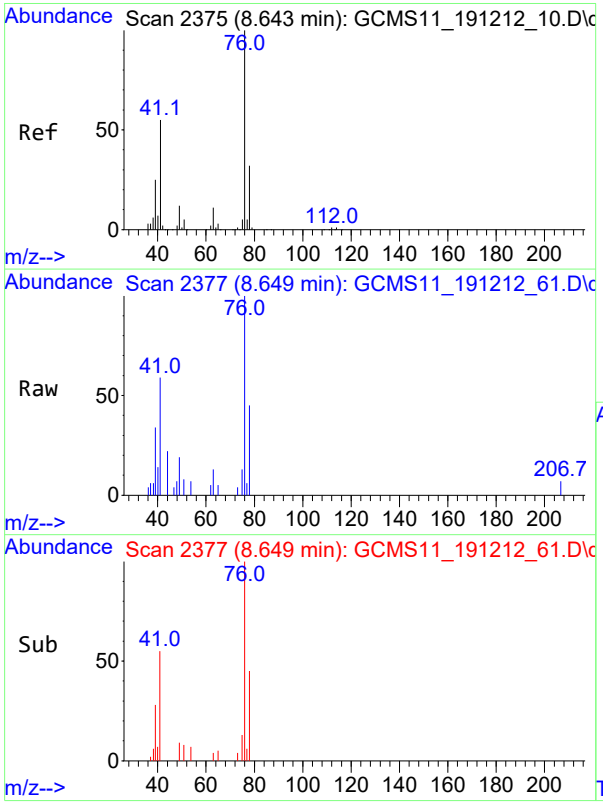


#42
Tetrachloroethene
Concen: 6.51 ng
RT: 8.604 min Scan# 2363
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:164 Resp: 1788

Ion	Ratio	Lower	Upper
164	100		
129	108.9	57.5	117.5
131	91.4	55.8	115.8
166	164.3	99.4	159.4#

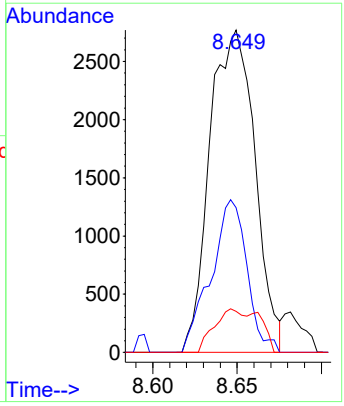


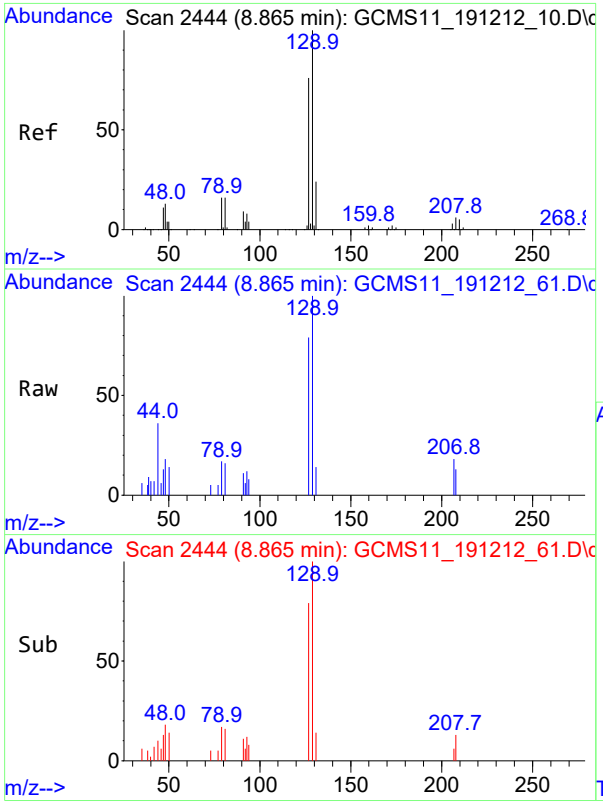


#43
1,3-Dichloropropane
Concen: 9.77 ng
RT: 8.649 min Scan# 2377
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 76 Resp: 5178

Ion	Ratio	Lower	Upper
76	100		
78	37.9	2.5	62.5
63	9.4	0.0	40.6

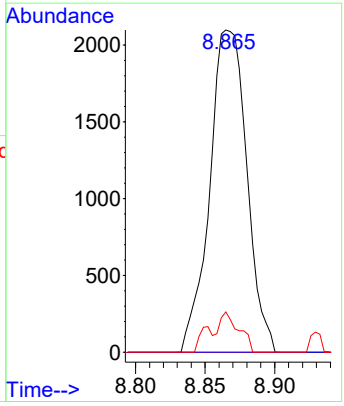


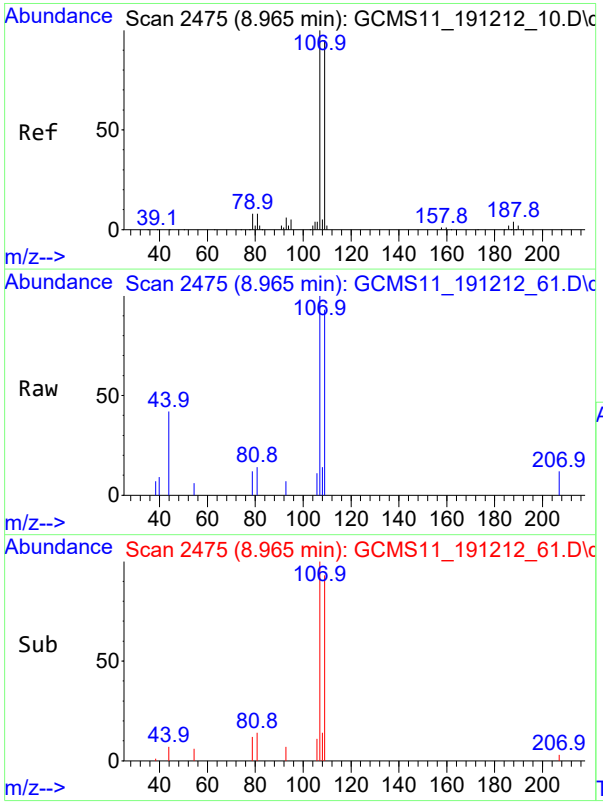


#45
Dibromochloromethane
Concen: 9.58 ng
RT: 8.865 min Scan# 2444
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:129 Resp: 3891

Ion	Ratio	Lower	Upper
129	100		
206	0.0	0.0	32.2
208	6.8	0.0	36.8

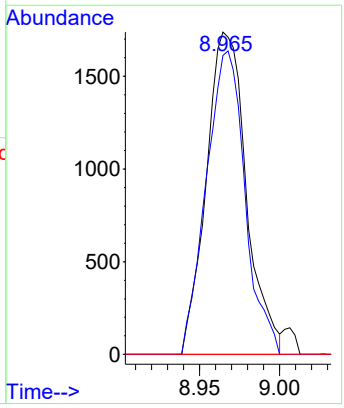


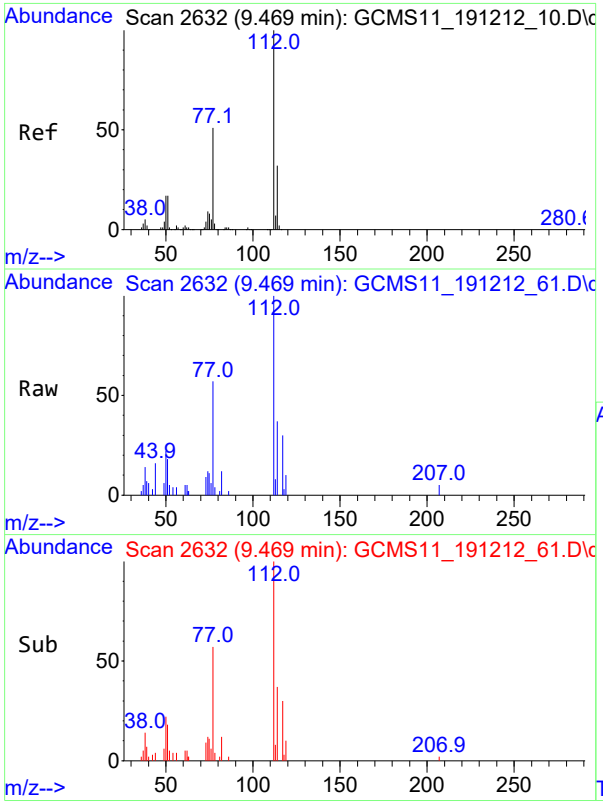


#46
1,2-Dibromoethane (EDB)
Concen: 8.74 ng
RT: 8.965 min Scan# 2475
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:107 Resp: 3033

Ion	Ratio	Lower	Upper
107	100		
109	90.9	60.6	120.6
188	0.0	0.0	33.6

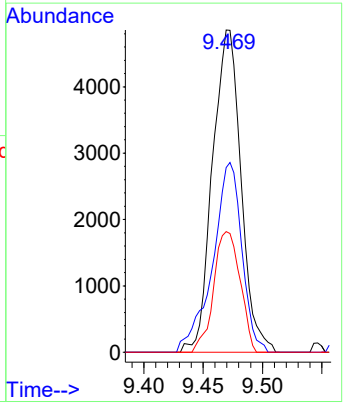


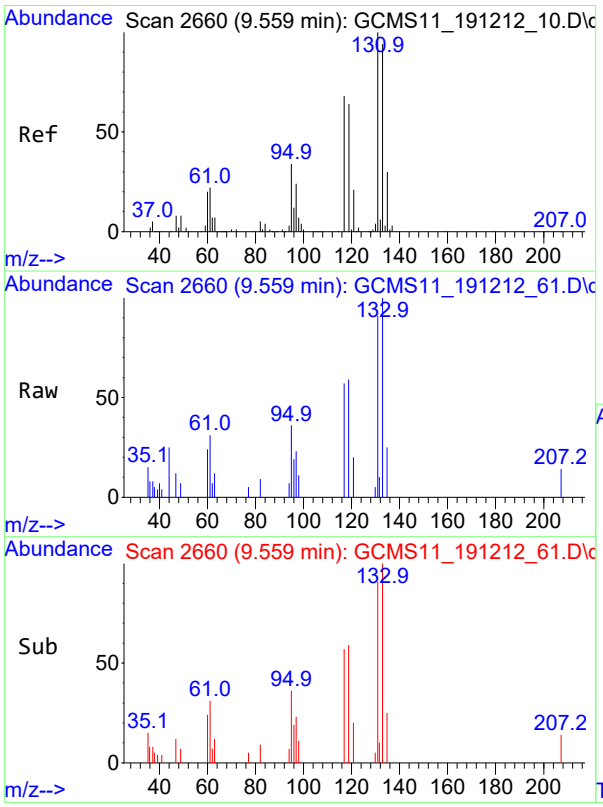


#47
Chlorobenzene
Concen: 8.66 ng
RT: 9.469 min Scan# 2632
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:112 Resp: 8115

Ion	Ratio	Lower	Upper
112	100		
77	60.3	21.6	81.6
114	34.7	1.4	61.4

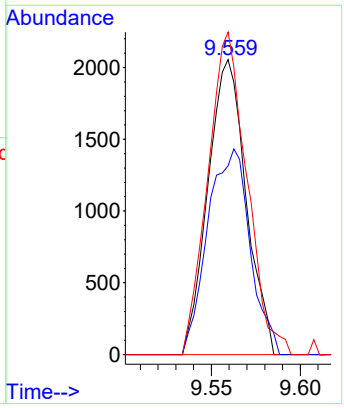


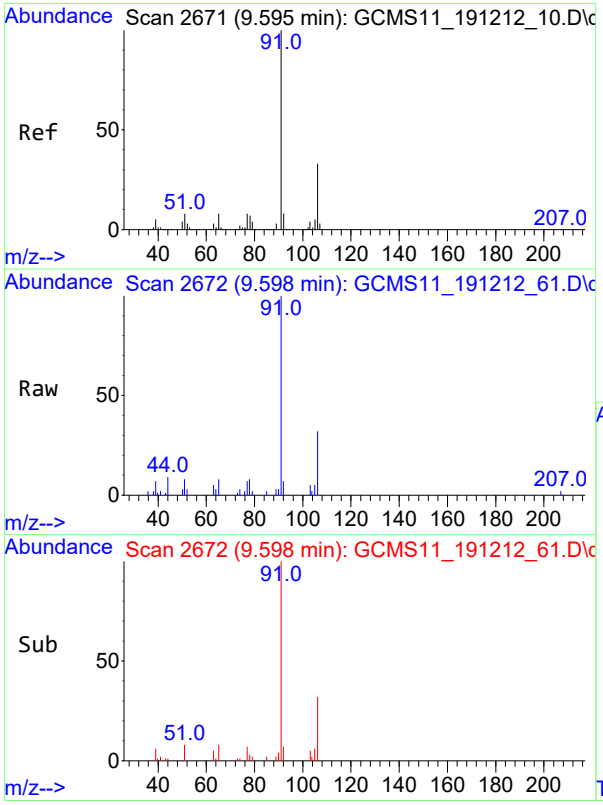


#48
1,1,1,2-Tetrachloroethane
Concen: 8.47 ng
RT: 9.559 min Scan# 2660
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:131 Resp: 3058

Ion	Ratio	Lower	Upper
131	100		
119	77.3	33.7	93.7
133	111.9	65.9	125.9

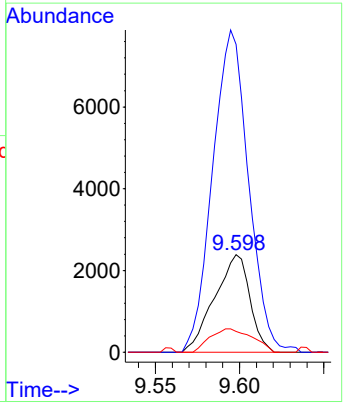


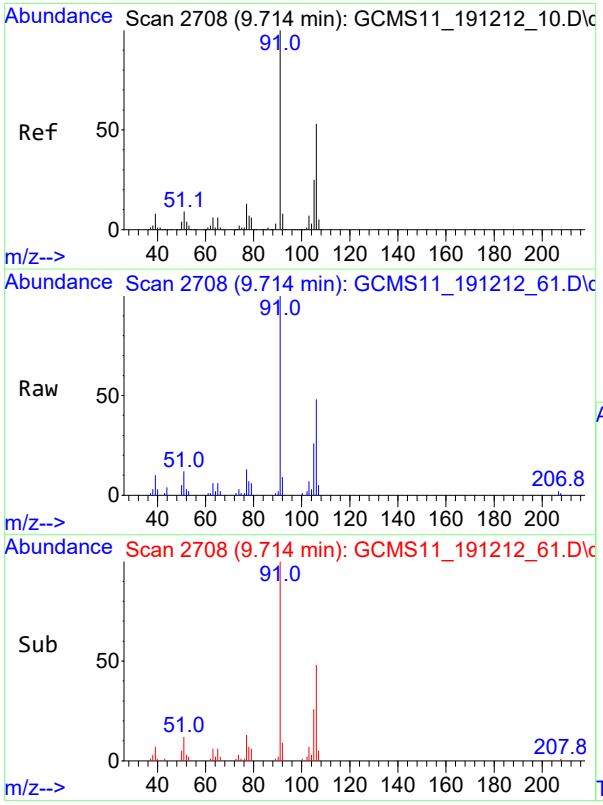


#49
Ethylbenzene
Concen: 7.20 ng
RT: 9.598 min Scan# 2672
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:106 Resp: 3478

Ion	Ratio	Lower	Upper
106	100		
91	337.2	267.1	327.1#
77	29.0	0.0	57.1

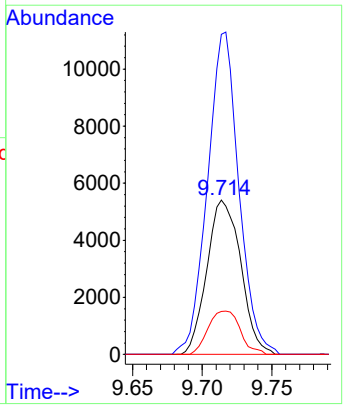


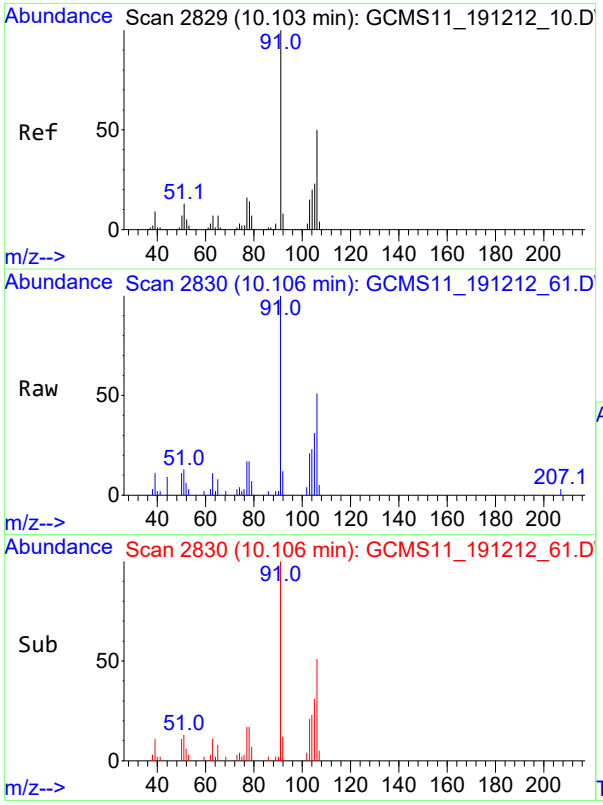


#50
m+p-Xylene
Concen: 14.95 ng
RT: 9.714 min Scan# 2708
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:106 Resp: 9137

Ion	Ratio	Lower	Upper
106	100		
91	193.5	160.8	220.8
77	26.7	0.0	54.6

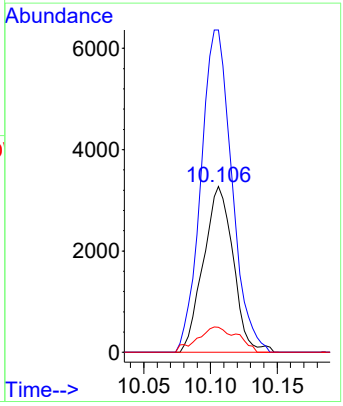


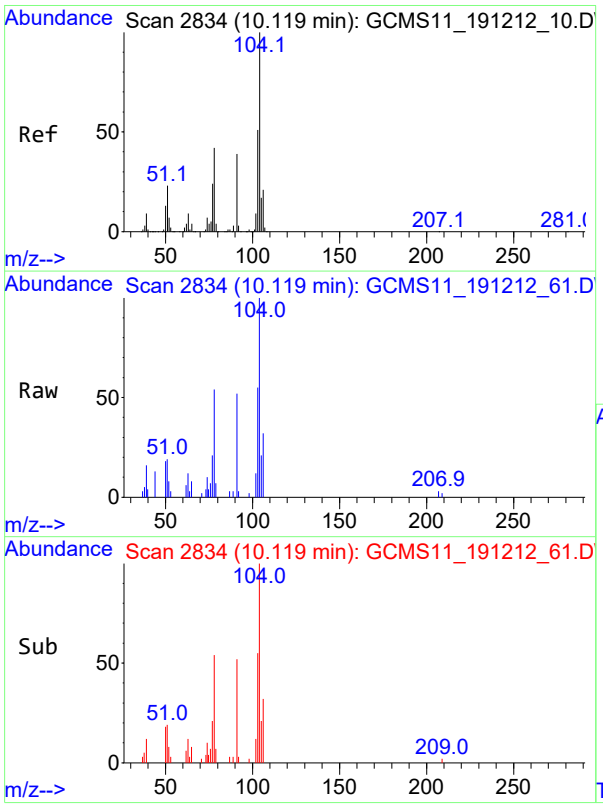


#51
o-Xylene
Concen: 8.61 ng
RT: 10.106 min Scan# 2830
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:106 Resp: 5085

Ion	Ratio	Lower	Upper
106	100		
91	202.0	178.4	238.4
65	20.5	0.0	45.9

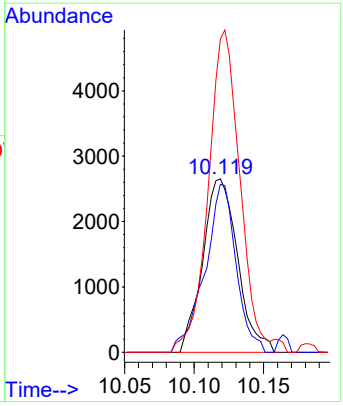


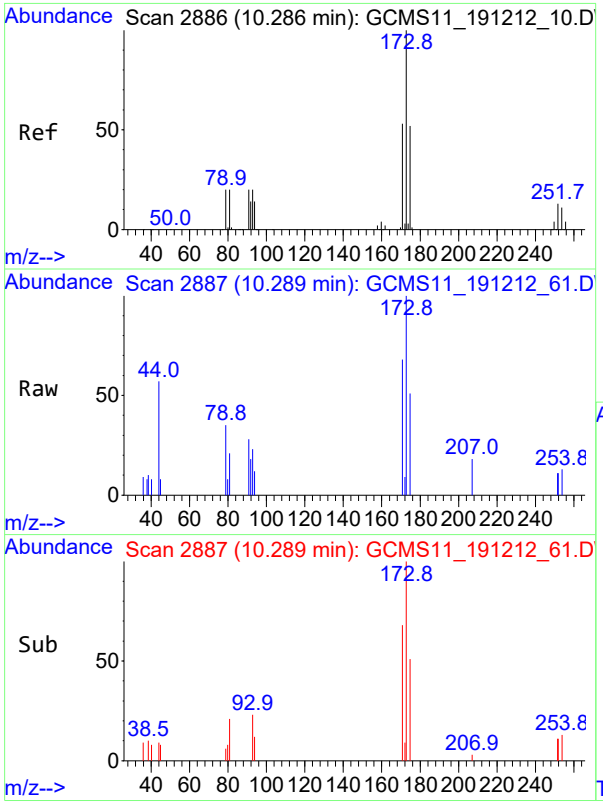


#52
Styrene
Concen: 8.28 ng
RT: 10.119 min Scan# 2834
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:103 Resp: 4625

Ion	Ratio	Lower	Upper
103	100		
78	86.8	54.1	114.1
104	167.0	150.1	210.1

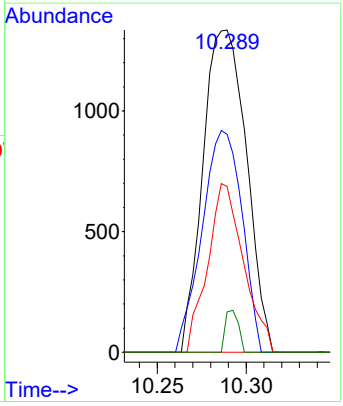


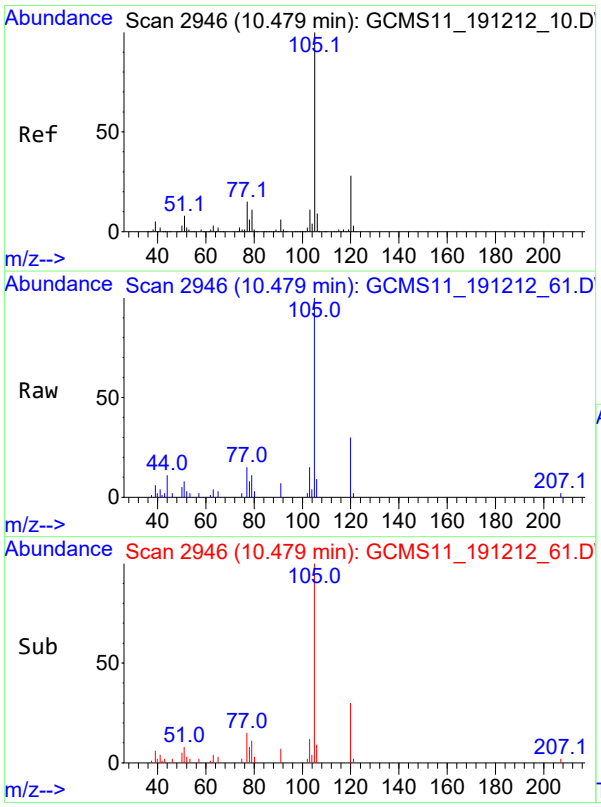


#53
Bromoform
Concen: 7.73 ng
RT: 10.289 min Scan# 2887
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:173 Resp: 2273

Ion	Ratio	Lower	Upper
173	100		
171	63.1	24.1	84.1
175	43.2	16.4	76.4
254	3.9	0.0	30.0

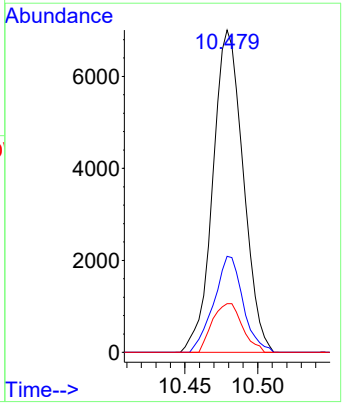


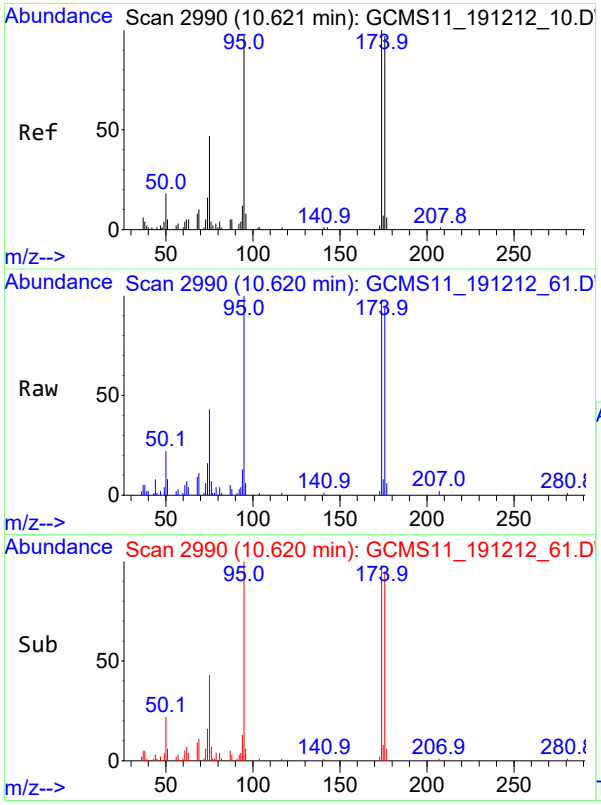


#54
Isopropylbenzene
Concen: 6.52 ng
RT: 10.479 min Scan# 2946
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:105 Resp: 10172

Ion	Ratio	Lower	Upper
105	100		
120	28.7	0.0	59.2
77	15.0	0.0	44.3

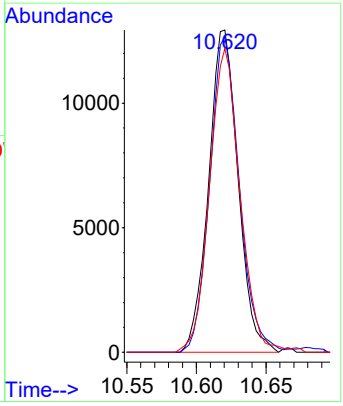


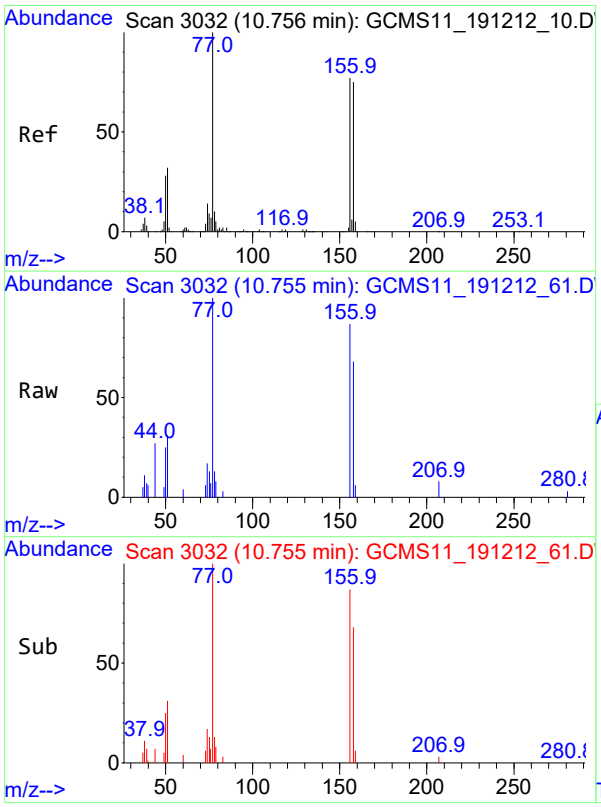


#55
4-BROMOFLUOROBENZENE
Concen: 48.05 ng
RT: 10.620 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 95 Resp: 19014

Ion	Ratio	Lower	Upper
95	100		
174	98.6	68.5	128.5
176	97.0	66.8	126.8

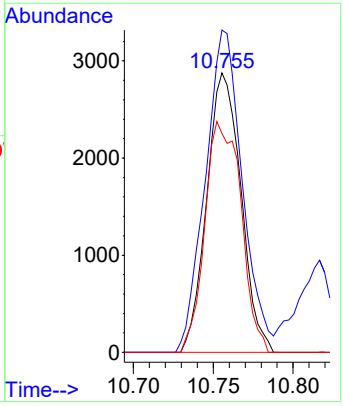


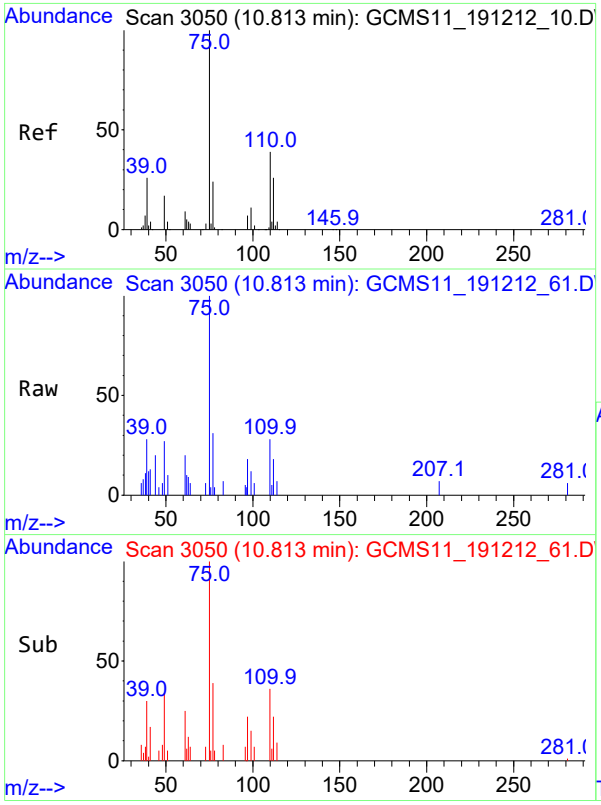


#56
Bromobenzene
Concen: 10.48 ng
RT: 10.755 min Scan# 3032
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:156 Resp: 4288

Ion	Ratio	Lower	Upper
156	100		
77	124.5	102.0	162.0
158	87.3	70.7	130.7

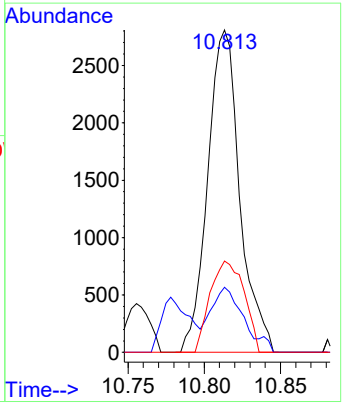


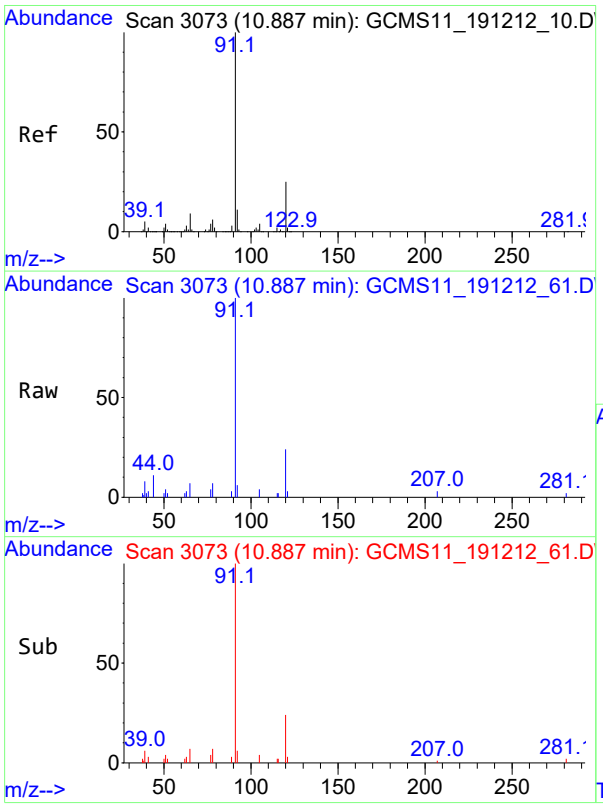


#57
1,2,3-Trichloropropane
Concen: 11.46 ng
RT: 10.813 min Scan# 3050
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 75 Resp: 4109

Ion	Ratio	Lower	Upper
75	100		
61	20.8	0.0	53.9
110	30.0	12.0	72.0

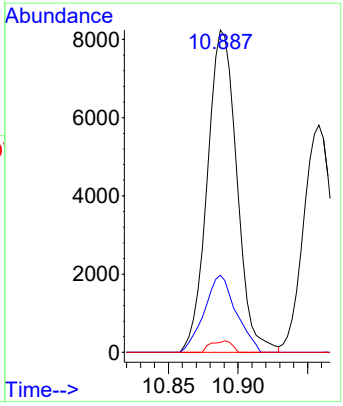


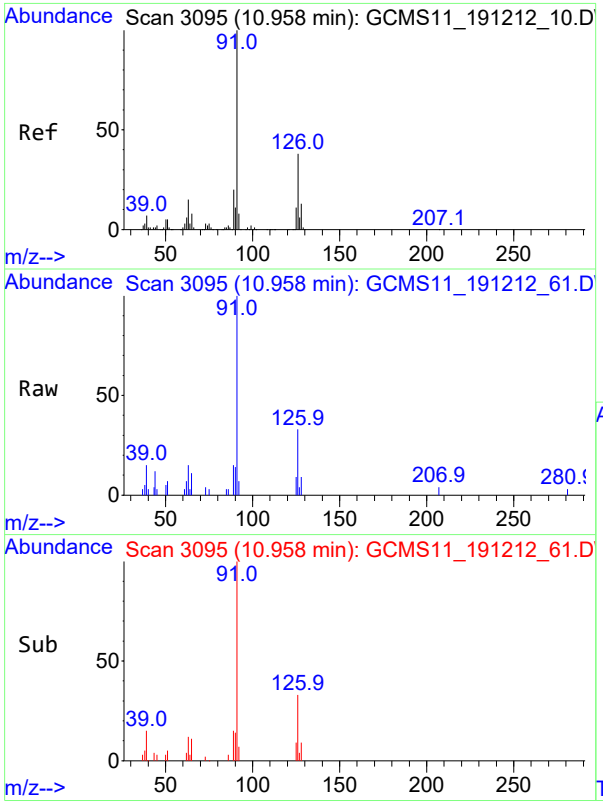


#58
n-Propylbenzene
Concen: 6.94 ng
RT: 10.887 min Scan# 3073
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 91 Resp: 12160

Ion	Ratio	Lower	Upper
91	100		
120	25.7	0.0	55.0
121	2.6	0.0	32.4

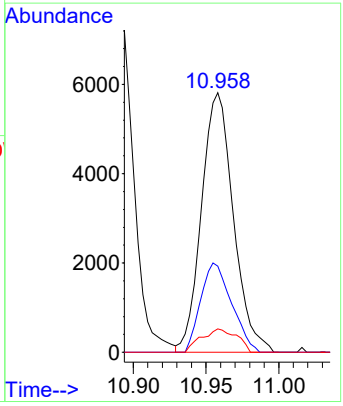


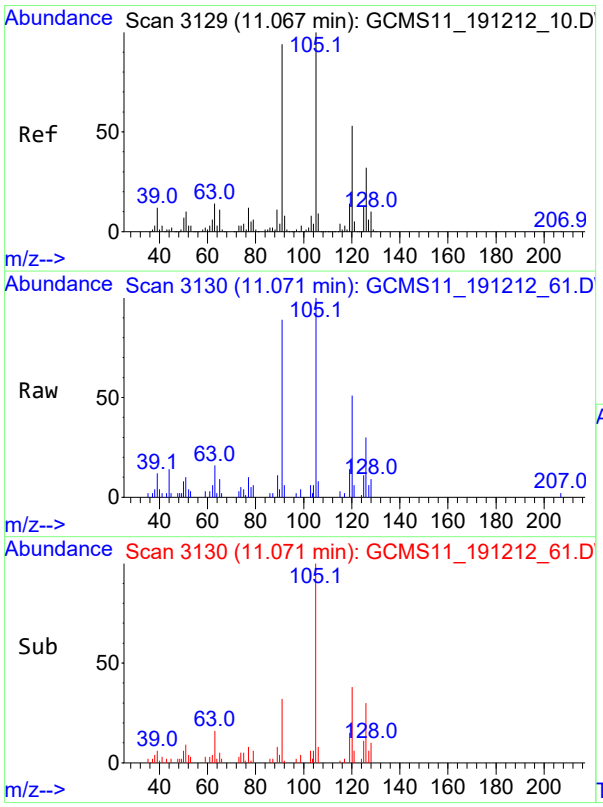


#59
2-Chlorotoluene
Concen: 8.65 ng
RT: 10.958 min Scan# 3095
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 91 Resp: 8866

Ion	Ratio	Lower	Upper
91	100		
126	33.3	7.6	67.6
128	10.0	0.0	41.8

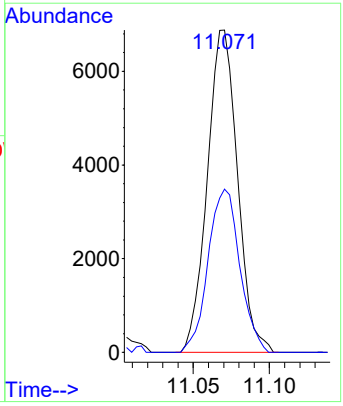


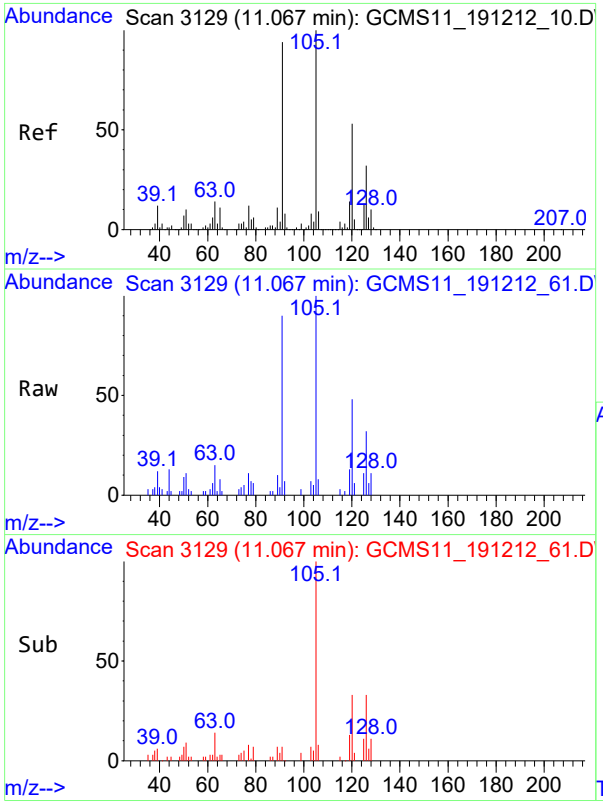


#60
1,3,5-Trimethylbenzene
Concen: 7.49 ng
RT: 11.071 min Scan# 3130
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:105 Resp: 9505

Ion	Ratio	Lower	Upper
105	100		
120	53.0	22.4	82.4

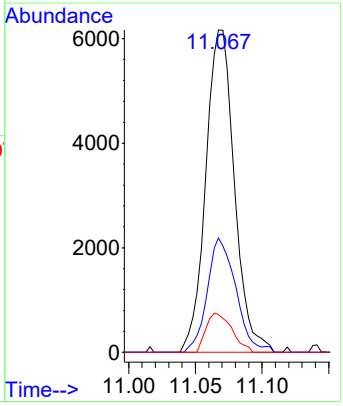


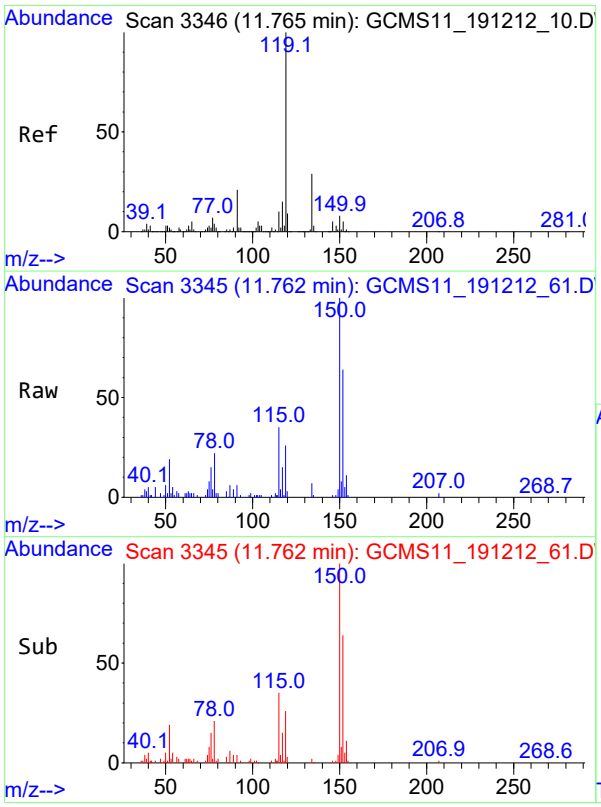


#61
4-Chlorotoluene
Concen: 7.73 ng
RT: 11.067 min Scan# 3129
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 91 Resp: 9234

Ion	Ratio	Lower	Upper
91	100		
126	35.3	3.3	63.3
128	10.9	0.0	41.2

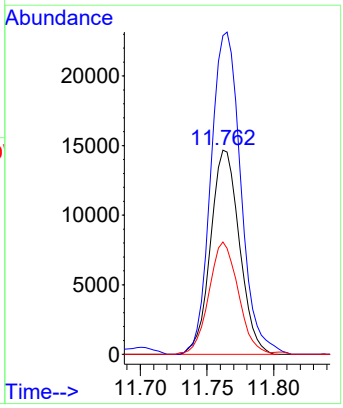


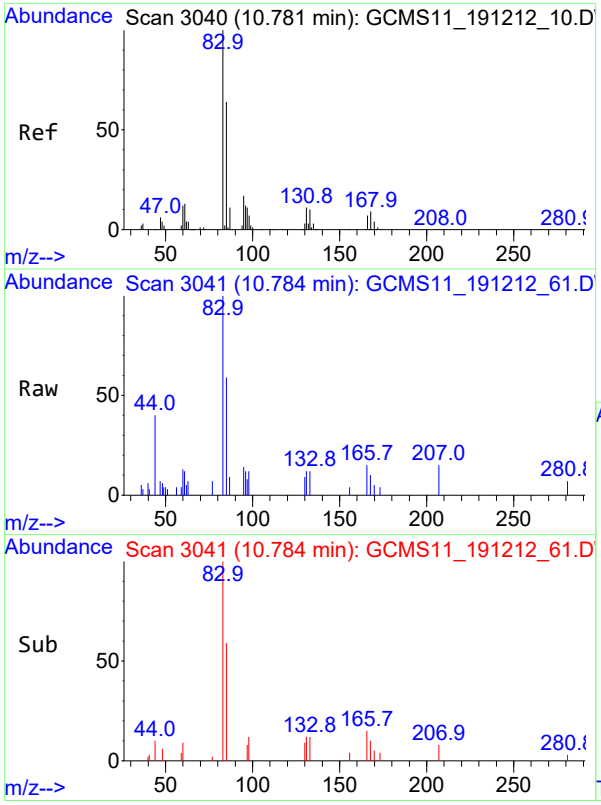


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.762 min Scan# 3345
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:152 Resp: 22123

Ion	Ratio	Lower	Upper
152	100		
150	163.4	162.5	222.5
115	56.1	82.3	142.3#

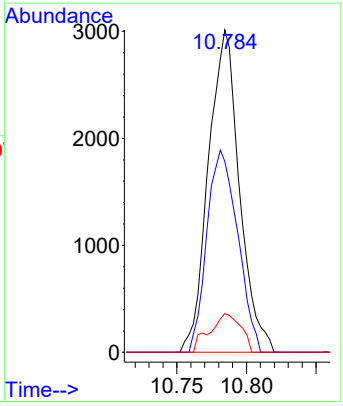


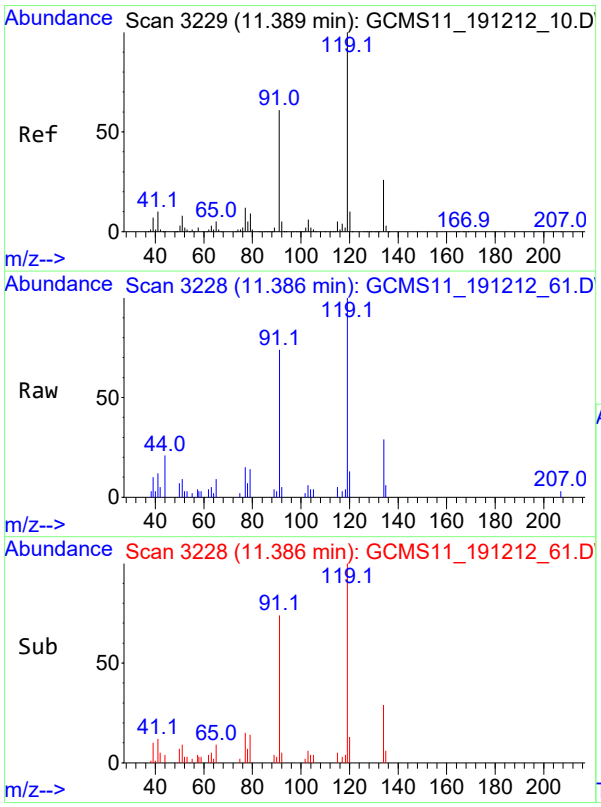


#63
1,1,2,2-Tetrachloroethane
Concen: 11.77 ng
RT: 10.784 min Scan# 3041
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 83 Resp: 4673

Ion	Ratio	Lower	Upper
83	100		
85	62.0	35.1	95.1
131	12.0	0.0	41.4

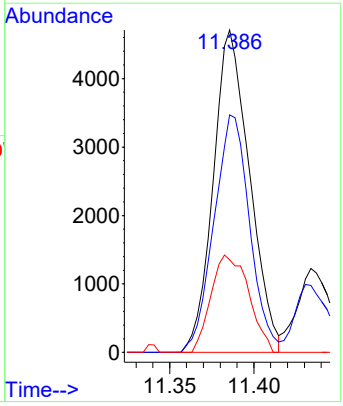


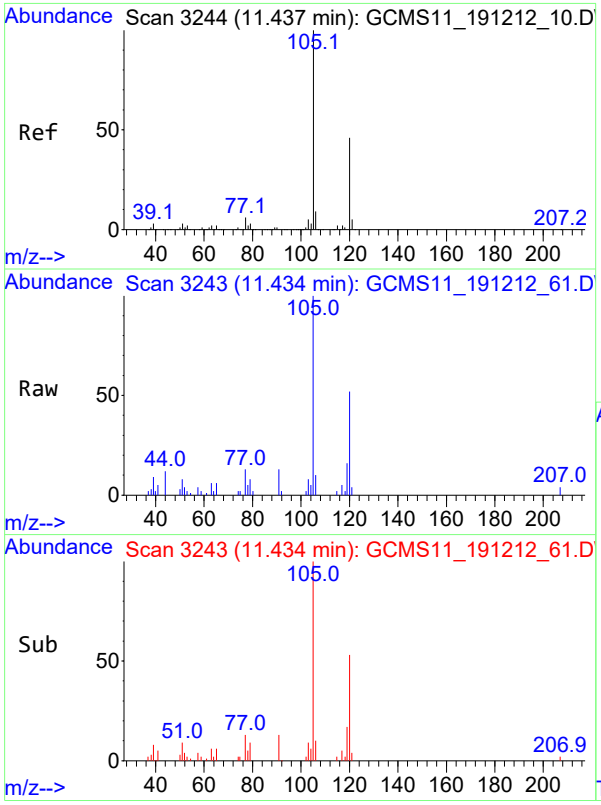


#64
tert-Butylbenzene
Concen: 7.25 ng
RT: 11.386 min Scan# 3228
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:119 Resp: 7076

Ion	Ratio	Lower	Upper
119	100		
91	72.6	31.1	91.1
134	31.5	0.0	55.9

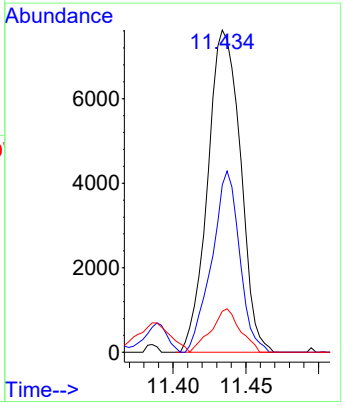


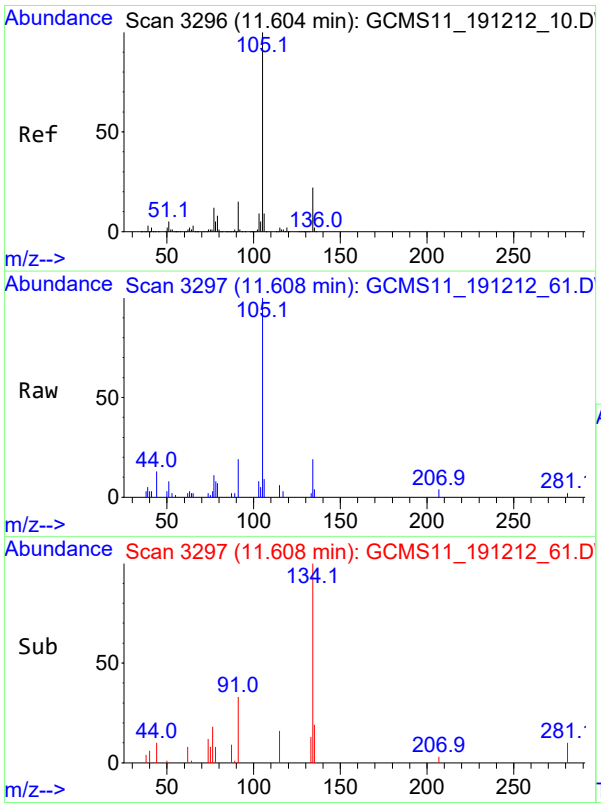


#65
1,2,4-Trimethylbenzene
Concen: 9.99 ng
RT: 11.434 min Scan# 3243
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:105 Resp: 11932

Ion	Ratio	Lower	Upper
105	100		
120	47.8	18.6	78.6
77	11.9	0.0	41.4

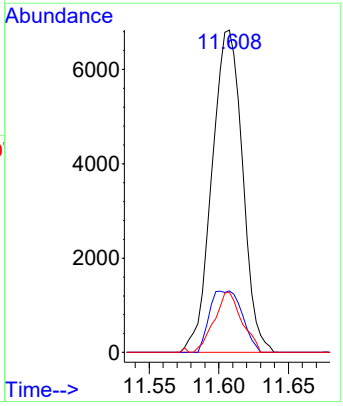


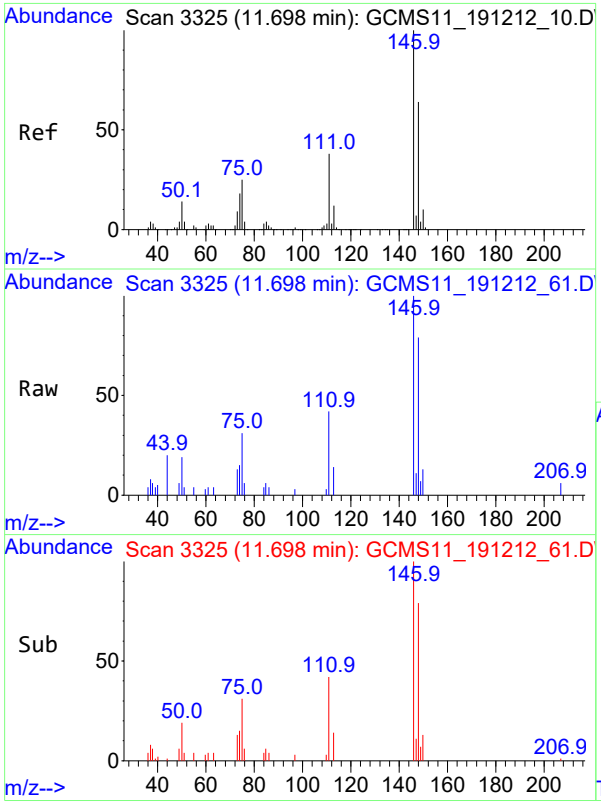


#66
sec-Butylbenzene
Concen: 7.12 ng
RT: 11.608 min Scan# 3297
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:105 Resp: 10431

Ion	Ratio	Lower	Upper
105	100		
134	20.4	0.0	52.3
91	16.8	0.0	45.3

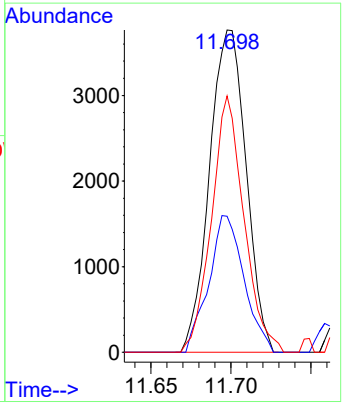


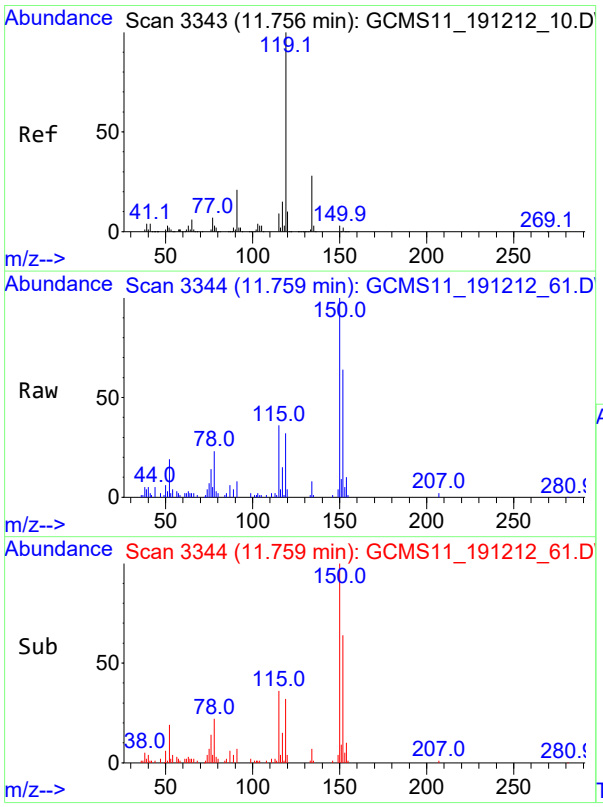


#67
1,3-Dichlorobenzene
Concen: 8.79 ng
RT: 11.698 min Scan# 3325
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:146 Resp: 6002

Ion	Ratio	Lower	Upper
146	100		
111	40.9	7.5	67.5
148	70.7	37.4	97.4

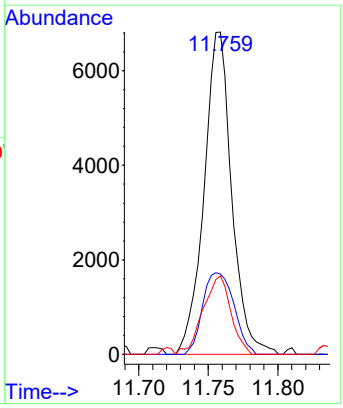


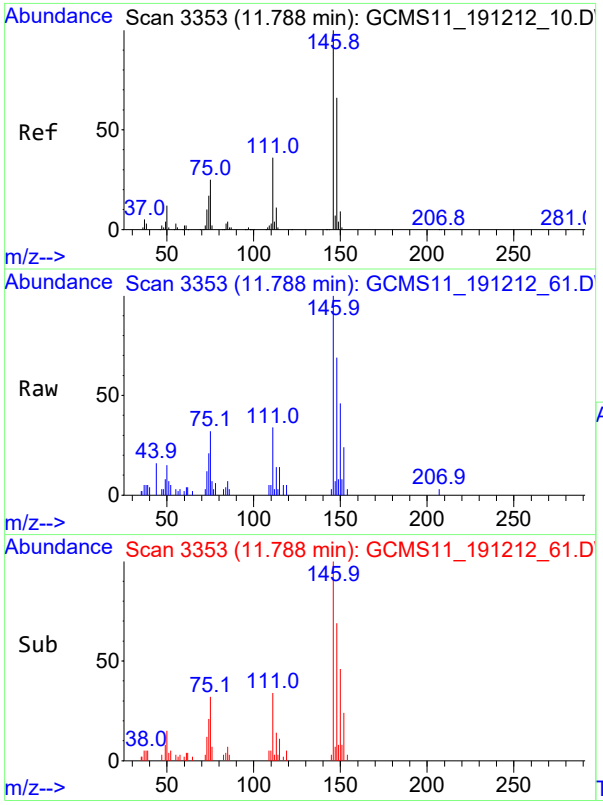


#68
p-Isopropyltoluene
Concen: 7.36 ng
RT: 11.759 min Scan# 3344
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:119 Resp: 9438

Ion	Ratio	Lower	Upper
119	100		
134	28.5	0.0	57.5
91	24.4	0.0	51.3

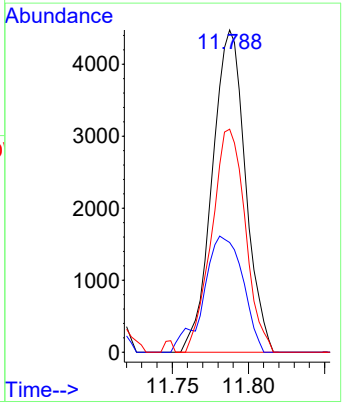


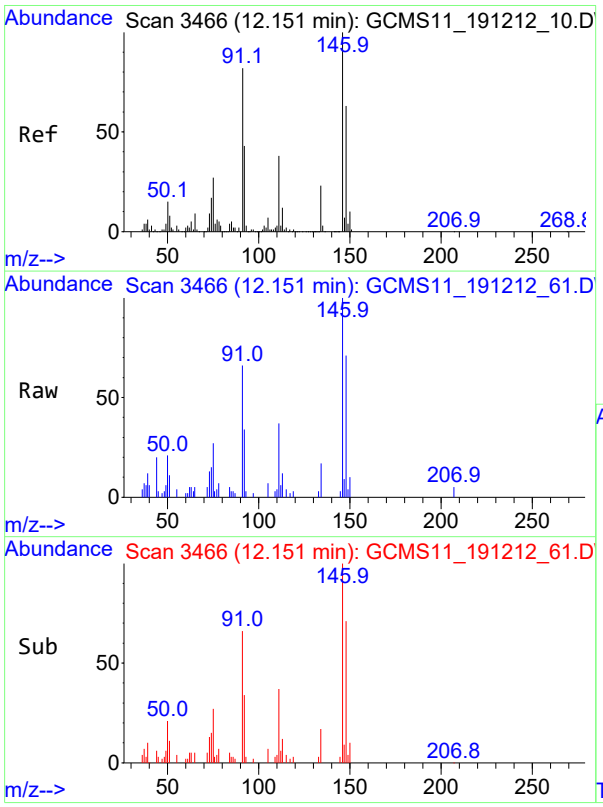


#69
1,4-Dichlorobenzene
Concen: 9.74 ng
RT: 11.788 min Scan# 3353
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:146 Resp: 6773

Ion	Ratio	Lower	Upper
146	100		
111	42.4	3.3	63.3
148	70.2	33.5	93.5

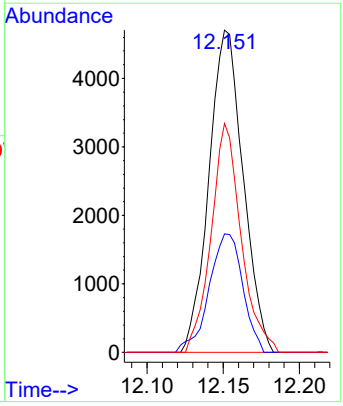


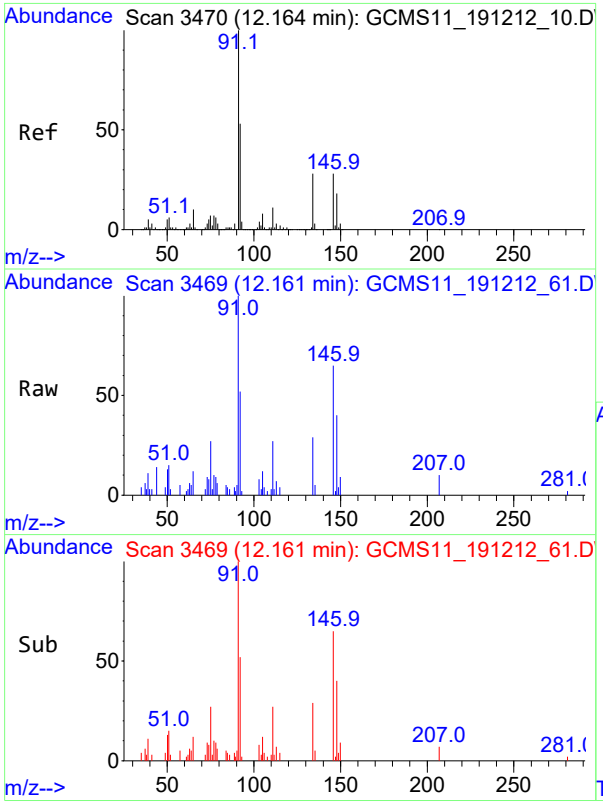


#70
1,2-Dichlorobenzene
Concen: 9.91 ng
RT: 12.151 min Scan# 3466
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:146 Resp: 7322

Ion	Ratio	Lower	Upper
146	100		
111	36.2	8.4	68.4
148	62.5	34.6	94.6

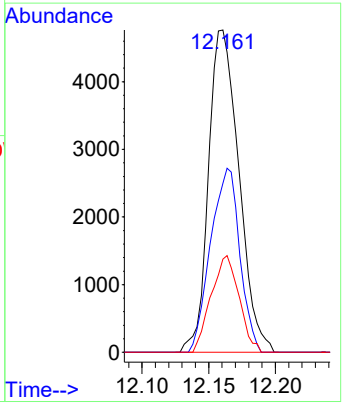


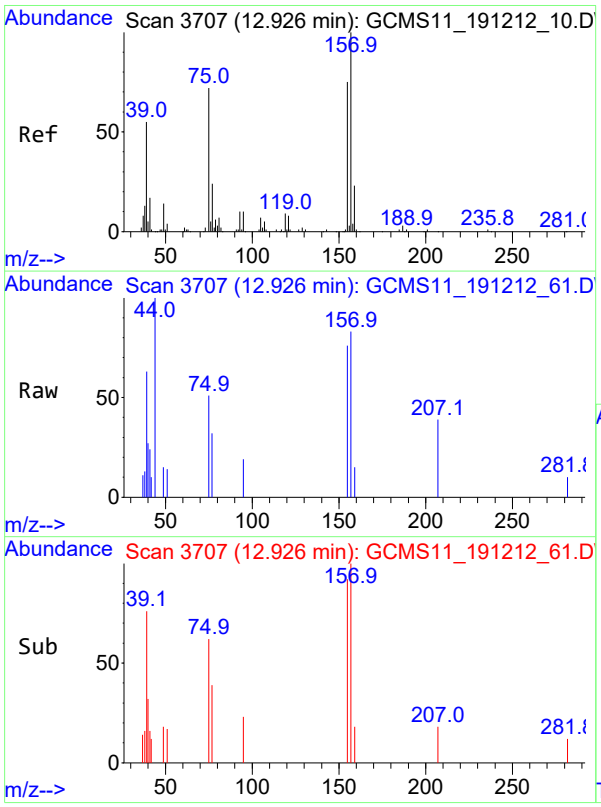


#71
n-Butylbenzene
Concen: 6.63 ng
RT: 12.161 min Scan# 3469
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion: 91 Resp: 7557

Ion	Ratio	Lower	Upper
91	100		
92	54.7	22.0	82.0
134	27.6	0.0	58.4

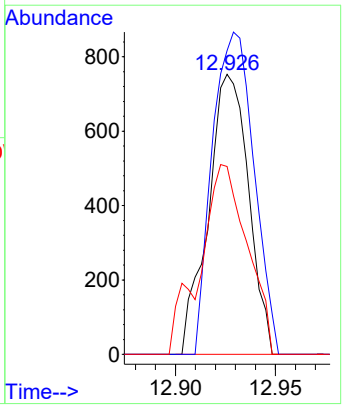


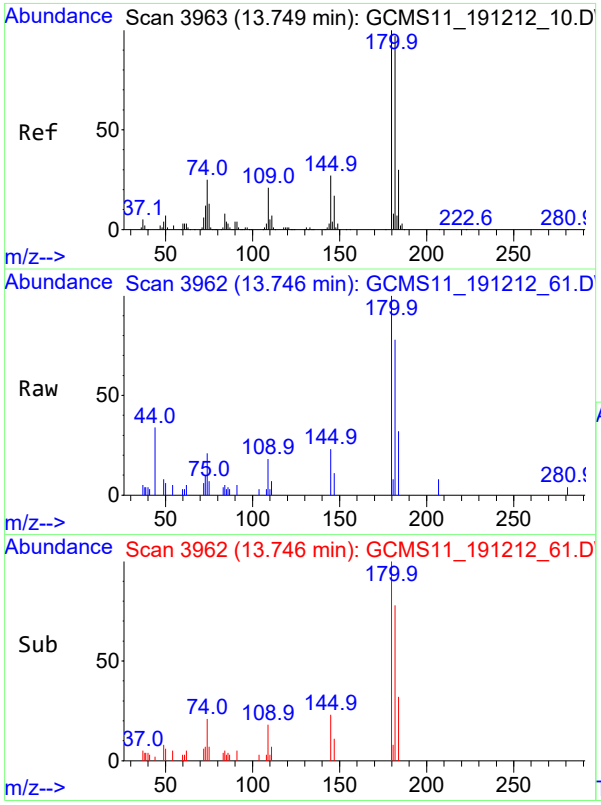


#72
1,2-Dibromo-3-chloropropane
Concen: 13.94 ng
RT: 12.926 min Scan# 3707
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:155 Resp: 1057

Ion	Ratio	Lower	Upper
155	100		
157	118.7	110.8	170.8
75	79.4	79.5	139.5#

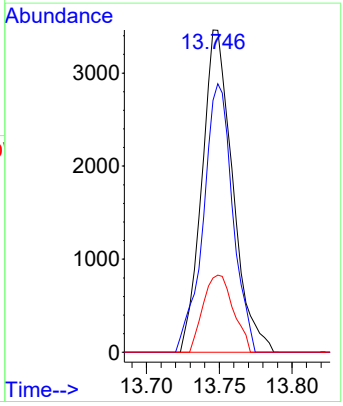


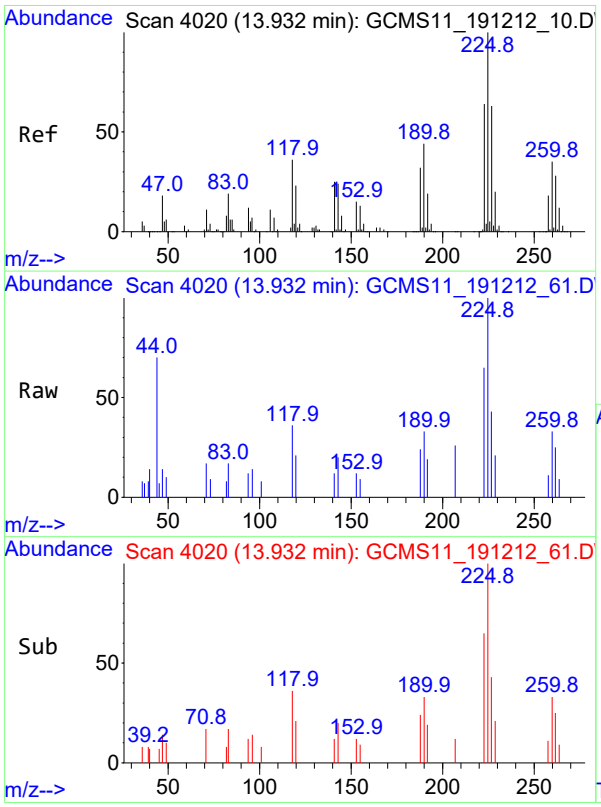


#73
1,2,4-Trichlorobenzene
Concen: 10.22 ng
RT: 13.746 min Scan# 3962
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:180 Resp: 5090

Ion	Ratio	Lower	Upper
180	100		
182	79.6	66.7	126.7
145	23.4	0.0	58.2

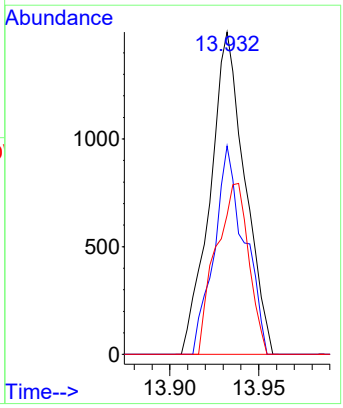


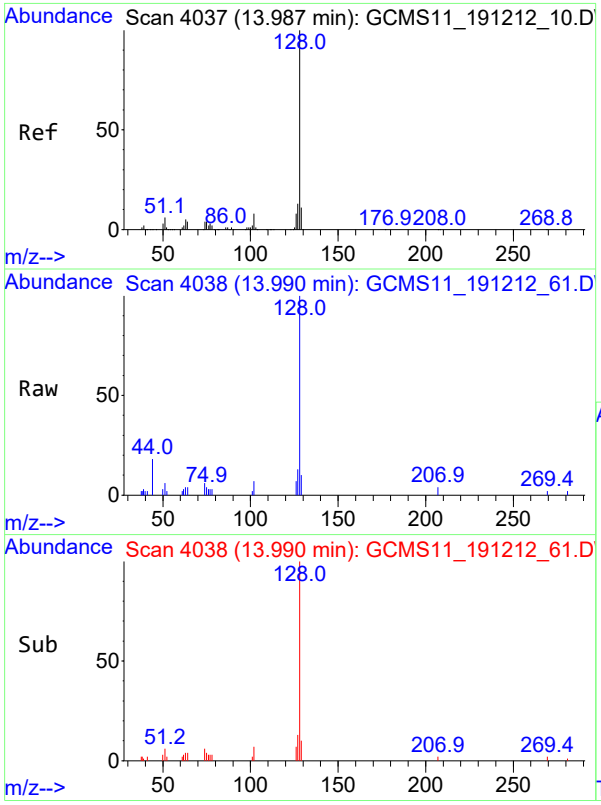


#74
Hexachlorobutadiene
Concen: 8.78 ng
RT: 13.932 min Scan# 4020
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:225 Resp: 2037

Ion	Ratio	Lower	Upper
225	100		
223	56.5	1242.7	1302.7#
227	50.0	19.6	79.6

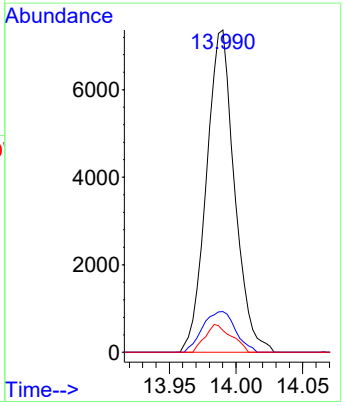


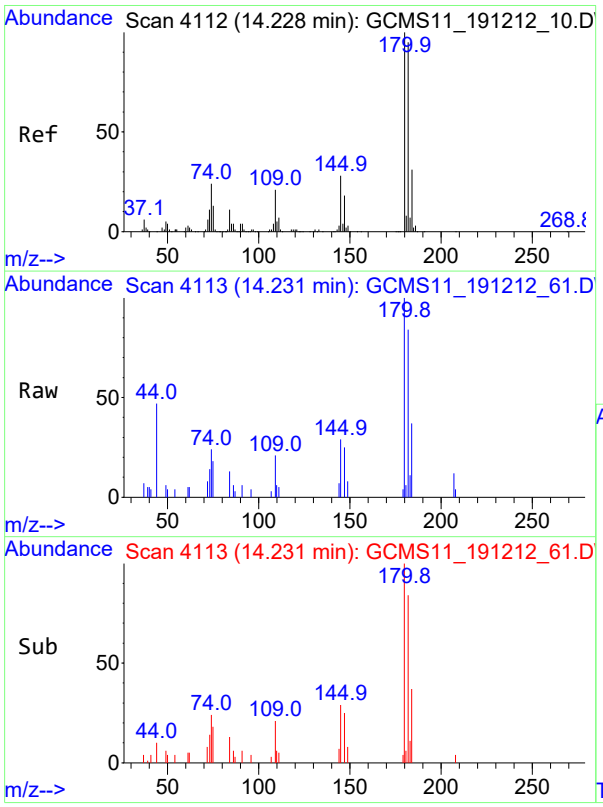


#75
Naphthalene
Concen: 8.46 ng
RT: 13.990 min Scan# 4038
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:128 Resp: 10791

Ion	Ratio	Lower	Upper
128	100		
127	14.8	0.0	43.5
102	8.1	0.0	37.4

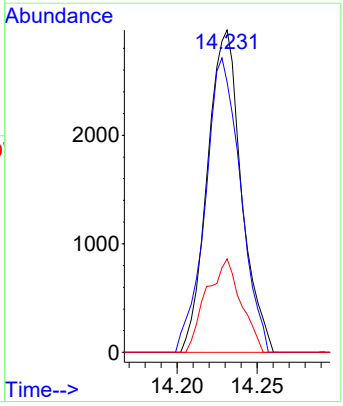




#76
1,2,3-Trichlorobenzene
Concen: 8.34 ng
RT: 14.231 min Scan# 4113
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:180 Resp: 4398

Ion	Ratio	Lower	Upper
180	100		
182	94.5	66.7	126.7
145	29.4	0.0	58.4



Evaluate Continuing Calibration Report

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_61.D
Acq On : 13 Dec 2019 6:21 pm
Operator : ko
Sample : B19L015-MRL1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 16 12:49:02 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE	50.000	50.000	0.0	82	0.00
2	TM	Dichlorodifluoromethane	10.000	5.260	47.4	96	0.00
3	TM	Chloromethane	10.000	12.184	-21.8	48	0.00
4	M	Vinyl chloride	10.000	8.663	13.4	55	0.00
5	M	Bromomethane	10.000	7.543	24.6	53	0.00
6	M	Chloroethane	10.000	7.852	21.5	41	0.00
7	M	Trichlorofluoromethane	10.000	5.644	43.6	102	0.00
8	M	Acrolein	50.000	0.000	100.0#	0	-2.32#
9	M	1,1-Dichloroethene	10.000	6.628	33.7	103	0.00
10	M	Acetone	50.000	0.000	100.0#	0	0.02
11	M	Carbon disulfide	10.000	52.989	-429.9#	0	-0.02
12	M	Methylene chloride	10.000	10.644	-6.4	83	0.00
13	M	Acrylonitrile	50.000	0.000	100.0#	0	-0.03
14	M	trans-1,2-Dichloroethene	10.000	8.327	16.7	92	0.00
15	M	Methyl tert-butyl ether	10.000	0.000	100.0#	0	0.00
16	M	1,1-Dichloroethane	10.000	8.959	10.4	88	0.00
17	M	2,2-Dichloropropane	10.000	6.345	36.6	75	0.00
18	M	cis-1,2-Dichloroethene	10.000	11.843	-18.4	103	0.00
19	M	2-Butanone	50.000	0.000	100.0#	0	-4.86#
20	M	Bromochloromethane	10.000	9.817	1.8	89	0.00
21	M	Chloroform	10.000	8.529	14.7	82	0.00
22	S	DIBROMOFLUOROMETHANE	50.000	51.488	-3.0	84	0.00
23	M	1,1,1-Trichloroethane	10.000	8.605	13.9	149	0.00
24	M	Carbon tetrachloride	10.000	4.834	51.7#	87	0.00
25	M	1,1-Dichloropropene	10.000	5.812	41.9	103	0.00
26	S	1,2-DICHLOROETHANE-D4	50.000	49.879	0.2	83	0.00
27	M	Benzene	10.000	8.885	11.2	100	0.00
28	M	1,2-Dichloroethane	10.000	9.959	0.4	84	0.00
29	M	Trichloroethene	10.000	8.302	17.0	92	0.00
30	M	1,2-Dichloropropane	10.000	9.849	1.5	85	0.00
31	M	Dibromomethane	10.000	9.641	3.6	82	0.00
32	M	1,4-Dioxane	125.000	0.000	100.0#	0	-7.20#
33	M	Bromodichloromethane	10.000	11.324	-13.2	108	0.00
34	M	2-Chloroethylvinyl ether	10.000	0.000	100.0#	0	-7.59#
35	M	cis-1,3-Dichloropropene	10.000	10.285	-2.9	95	0.00
36	M	4-Methyl-2-pentanone	20.000	0.000	100.0#	0	0.07
37	S	TOLUENE-D8	50.000	52.890	-5.8	90	0.00
38	M	Toluene	10.000	8.167	18.3	94	0.00
39	I	CHLOROBENZENE-D5	50.000	50.000	0.0	86	0.00
40	M	trans-1,3-Dichloropropene	10.000	9.154	8.5	87	0.00
41	M	1,1,2-Trichloroethane	10.000	11.365	-13.7	105	0.00
42	M	Tetrachloroethene	10.000	6.508	34.9	123	0.00
43	M	1,3-Dichloropropane	10.000	9.769	2.3	93	0.00
44	M	2-Hexanone	20.000	0.000	100.0#	0	0.12
45	M	Dibromochloromethane	10.000	9.579	4.2	90	0.00
46	M	1,2-Dibromoethane (EDB)	10.000	8.742	12.6	74	0.00
47	M	Chlorobenzene	10.000	8.656	13.4	91	0.00
48	M	1,1,1,2-Tetrachloroethane	10.000	8.470	15.3	78	0.00
49	M	Ethylbenzene	10.000	7.199	28.0	79	0.00
50	M	m+p-Xylene	20.000	14.948	25.3	88	0.00
51	M	o-Xylene	10.000	8.611	13.9	92	0.00
52	M	Styrene	10.000	8.280	17.2	92	0.00
53	M	Bromoform	10.000	7.729	22.7	72	0.00

Carbon tetrachloride exceeded %Dev criteria and has RL raised to the appropriate level. See LIMS case narrative for more information.

All analytes with a %dev of 100 are not spiked in the MRL QC sample

-KO 12.23.19

Evaluate Continuing Calibration Report

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_61.D
Acq On : 13 Dec 2019 6:21 pm
Operator : ko
Sample : B19L015-MRL1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Dec 16 12:49:02 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 50% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
54	M	Isopropylbenzene	10.000	6.525	34.8	95	0.00
55	S	4-BROMOFLUOROBENZENE	50.000	48.047	3.9	84	0.00
56	M	Bromobenzene	10.000	10.476	-4.8	105	0.00
57	M	1,2,3-Trichloropropane	10.000	11.457	-14.6	102	0.00
58	M	n-Propylbenzene	10.000	6.935	30.7	108	0.00
59	M	2-Chlorotoluene	10.000	8.653	13.5	103	0.00
60	M	1,3,5-Trimethylbenzene	10.000	7.486	25.1	99	0.00
61	M	4-Chlorotoluene	10.000	7.725	22.8	89	0.00
62	I	1,4-DICHLOROBENZENE-D4	50.000	50.000	0.0	86	0.00
63	M	1,1,2,2-Tetrachloroethane	10.000	11.770	-17.7	100	0.00
64	M	tert-Butylbenzene	10.000	7.248	27.5	93	0.00
65	M	1,2,4-Trimethylbenzene	10.000	9.994	0.1	114	0.00
66	M	sec-Butylbenzene	10.000	7.120	28.8	109	0.00
67	M	1,3-Dichlorobenzene	10.000	8.787	12.1	87	0.00
68	M	p-Isopropyltoluene	10.000	7.358	26.4	100	0.00
69	M	1,4-Dichlorobenzene	10.000	9.741	2.6	93	0.00
70	M	1,2-Dichlorobenzene	10.000	9.914	0.9	90	0.00
71	M	n-Butylbenzene	10.000	6.626	33.7	101	0.00
72	M	1,2-Dibromo-3-chloropropane	10.000	13.937	-39.4	168	0.00
73	M	1,2,4-Trichlorobenzene	10.000	10.218	-2.2	95	0.00
74	M	Hexachlorobutadiene	10.000	8.776	12.2	133	0.00
75	M	Naphthalene	10.000	8.459	15.4	85	0.00
76	M	1,2,3-Trichlorobenzene	10.000	8.336	16.6	113	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_12.D
Acq On : 12 Dec 2019 4:25 pm
Operator : ko
Sample : ICV
Misc : LIMS 19L1101, 19L1204, 19L1205
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 13 10:33:53 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.26	96	69771	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	27406	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	28907	50.00	ng		0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.46	113	18593	50.74	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	21834	50.00	ng		0.00
37) TOLUENE-D8	7.98	98	71288	51.95	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	23422	47.14	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.12	85	57173	176.22	ng		99
3) Chloromethane	1.26	50	44359	149.66	ng		99
4) Vinyl chloride	1.35	62	59727	158.98	ng		97
5) Bromomethane	1.60	96	38528	122.89	ng		98
6) Chloroethane	1.69	64	35028	127.54	ng		95
7) Trichlorofluoromethane	1.92	101	72417	149.45	ng		99
9) 1,1-Dichloroethene	2.42	96	39198	108.09	ng		95
12) Methylene chloride	2.97	84	44594	101.70	ng		99
14) trans-1,2-Dichloroethene	3.32	96	44631	109.33	ng		93
16) 1,1-Dichloroethane	3.92	63	72073	106.91	ng		100
17) 2,2-Dichloropropane	4.78	77	59618	107.01	ng		98
18) cis-1,2-Dichloroethene	4.79	96	49510	112.37	ng		94
20) Bromochloromethane	5.11	128	27708	115.70	ng		95
21) Chloroform	5.26	83	77771	115.72	ng		97
23) 1,1,1-Trichloroethane	5.44	97	73247	119.81	ng		99
24) Carbon tetrachloride	5.65	117	62426	113.65	ng		99
25) 1,1-Dichloropropene	5.66	75	60105	120.58	ng		98
27) Benzene	5.90	78	177089	104.71	ng		99
28) 1,2-Dichloroethane	5.94	62	67772	119.23	ng		99
29) Trichloroethene	6.68	95	45830	114.83	ng		99
30) 1,2-Dichloropropane	6.91	63	42094	112.25	ng		98
31) Dibromomethane	7.04	93	32286	105.76	ng		98
33) Bromodichloromethane	7.23	83	61264	115.75	ng		99
35) cis-1,3-Dichloropropene	7.72	75	69203	117.99	ng		98
38) Toluene	8.05	92	114711	121.25	ng		97
40) trans-1,3-Dichloropropene	8.31	75	66479	111.26	ng		96
41) 1,1,2-Trichloroethane	8.48	83	37835	110.11	ng		98
42) Tetrachloroethene	8.60	164	41110	119.16	ng		99
43) 1,3-Dichloropropane	8.64	76	73107	109.84	ng		98
45) Dibromochloromethane	8.87	129	52033	102.01	ng		99
46) 1,2-Dibromoethane (EDB)	8.96	107	45942	105.45	ng		92
47) Chlorobenzene	9.47	112	130690	111.02	ng		100
48) 1,1,1,2-Tetrachloroethane	9.56	131	48261	106.45	ng		100
49) Ethylbenzene	9.59	106	67782	111.73	ng		96
50) m+p-Xylene	9.71	106	169032	220.23	ng		97
51) o-Xylene	10.10	106	84086	113.40	ng		93
52) Styrene	10.12	103	74658	106.45	ng		99
53) Bromoform	10.29	173	39823	107.84	ng	#	95
54) Isopropylbenzene	10.48	105	211425	108.00	ng		99
56) Bromobenzene	10.76	156	59283	115.34	ng		98
57) 1,2,3-Trichloropropane	10.81	75	48656	108.05	ng		98
58) n-Propylbenzene	10.89	91	238385	108.28	ng		99
59) 2-Chlorotoluene	10.96	91	143411	111.47	ng		100
60) 1,3,5-Trimethylbenzene	11.07	105	176593	110.76	ng		99
61) 4-Chlorotoluene	11.07	91	161819	107.81	ng		97
63) 1,1,2,2-Tetrachloroethane	10.78	83	62041	119.59	ng		98

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_12.D
Acq On : 12 Dec 2019 4:25 pm
Operator : ko
Sample : ICV
Misc : LIMS 19L1101, 19L1204, 19L1205
ALS Vial : 8 Sample Multiplier: 1

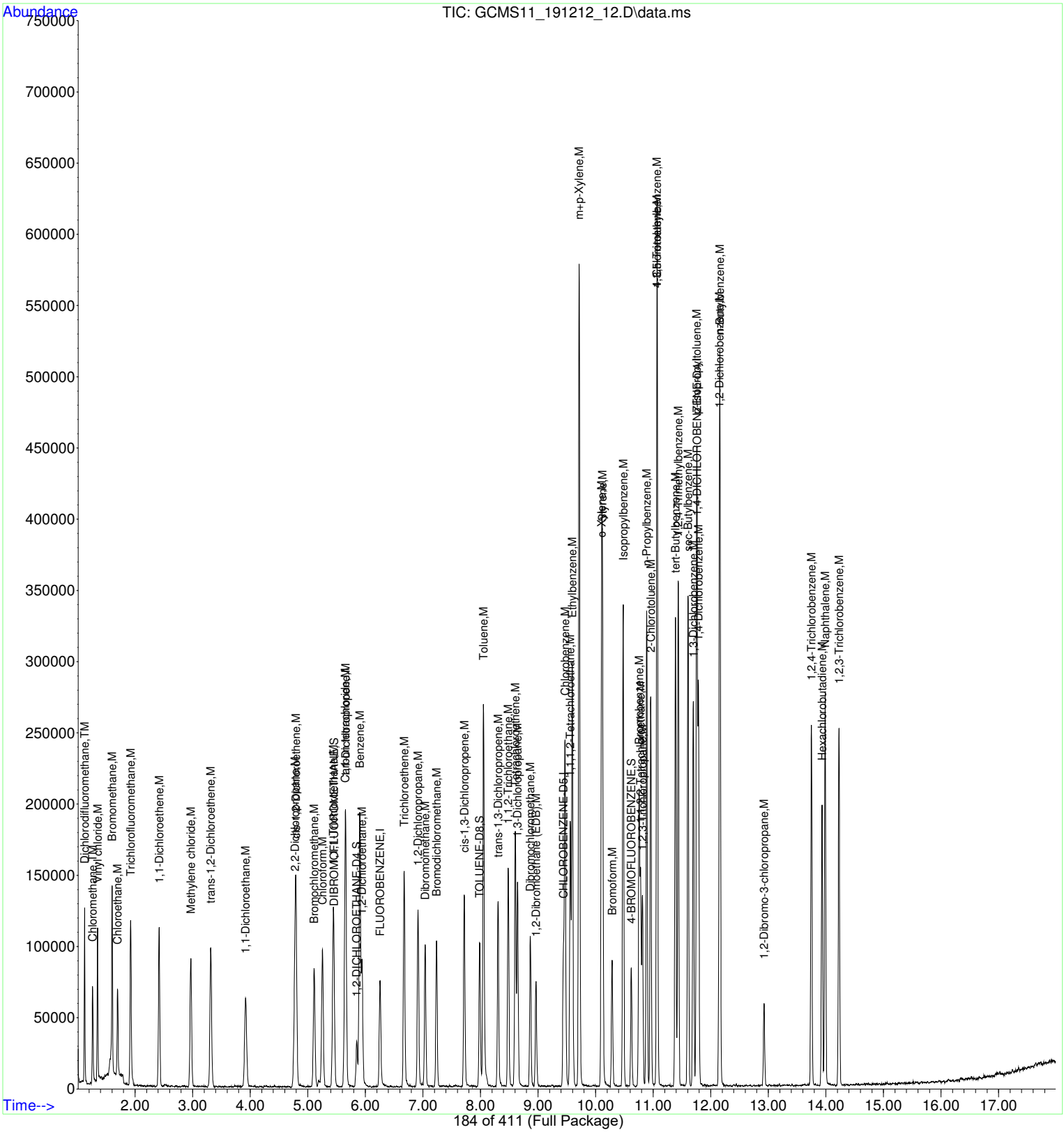
Quant Time: Dec 13 10:33:53 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
64) tert-Butylbenzene	11.39	119	161841	126.88	ng		98
65) 1,2,4-Trimethylbenzene	11.43	105	178506	114.43	ng		99
66) sec-Butylbenzene	11.60	105	224803	117.44	ng		99
67) 1,3-Dichlorobenzene	11.70	146	111232	124.62	ng		95
68) p-Isopropyltoluene	11.76	119	198338	118.34	ng		100
69) 1,4-Dichlorobenzene	11.79	146	108425	119.34	ng		97
70) 1,2-Dichlorobenzene	12.15	146	110246	114.24	ng		99
71) n-Butylbenzene	12.16	91	169280	113.59	ng		98
72) 1,2-Dibromo-3-chloropr...	12.93	155	11846	119.54	ng		90
73) 1,2,4-Trichlorobenzene	13.75	180	80246	123.29	ng		99
74) Hexachlorobutadiene	13.93	225	36677	120.93	ng	#	1
75) Naphthalene	13.99	128	212233	127.33	ng		99
76) 1,2,3-Trichlorobenzene	14.23	180	78363	117.05	ng		98

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_12.D
Acq On : 12 Dec 2019 4:25 pm
Operator : ko
Sample : ICV
Misc : LIMS 19L1101, 19L1204, 19L1205
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 13 10:33:53 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_12.D
Acq On : 12 Dec 2019 4:25 pm
Operator : ko
Sample : ICV
Misc : LIMS 19L1101, 19L1204, 19L1205
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 13 10:33:53 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE	50.000	50.000	0.0	97	0.00
2	TM	Dichlorodifluoromethane	125.000	176.218	-41.0#	125	0.00
3	TM	Chloromethane	125.000	149.662	-19.7	111	0.00
4	M	Vinyl chloride	125.000	158.977	-27.2	116	0.00
5	M	Bromomethane	125.000	122.890	1.7	94	0.00
6	M	Chloroethane	125.000	127.536	-2.0	96	0.00
7	M	Trichlorofluoromethane	125.000	149.451	-19.6	111	0.00
8	M	Acrolein	625.000	0.000	100.0#	0	-2.32#
9	M	1,1-Dichloroethene	125.000	108.095	13.5	87	0.00
10	M	Acetone	625.000	0.000	100.0#	0	-2.49#
11	M	Carbon disulfide	125.000	0.000	100.0#	0	-2.62#
12	M	Methylene chloride	125.000	101.699	18.6	85	0.00
13	M	Acrylonitrile	625.000	0.000	100.0#	0	-3.29#
14	M	trans-1,2-Dichloroethene	125.000	109.328	12.5	90	0.00
15	M	Methyl tert-butyl ether	125.000	0.000	100.0#	0	-3.34#
16	M	1,1-Dichloroethane	125.000	106.910	14.5	84	0.00
17	M	2,2-Dichloropropane	125.000	107.007	14.4	83	0.00
18	M	cis-1,2-Dichloroethene	125.000	112.369	10.1	88	0.00
19	M	2-Butanone	625.000	0.000	100.0#	0	-4.86#
20	M	Bromochloromethane	125.000	115.701	7.4	91	0.00
21	M	Chloroform	125.000	115.722	7.4	90	0.00
22	S	DIBROMOFLUOROMETHANE	50.000	50.740	-1.5	98	0.00
23	M	1,1,1-Trichloroethane	125.000	119.811	4.2	94	0.00
24	M	Carbon tetrachloride	125.000	113.649	9.1	91	0.00
25	M	1,1-Dichloropropene	125.000	120.582	3.5	97	0.00
26	S	1,2-DICHLOROETHANE-D4	50.000	49.997	0.0	95	0.00
27	M	Benzene	125.000	104.709	16.2	83	0.00
28	M	1,2-Dichloroethane	125.000	119.232	4.6	95	0.00
29	M	Trichloroethene	125.000	114.831	8.1	93	0.00
30	M	1,2-Dichloropropane	125.000	112.247	10.2	91	0.00
31	M	Dibromomethane	125.000	105.758	15.4	86	0.00
32	M	1,4-Dioxane	750.000	0.000	100.0#	0	-7.20#
33	M	Bromodichloromethane	125.000	115.746	7.4	91	0.00
34	M	2-Chloroethylvinyl ether	125.000	0.000	100.0#	0	-7.59#
35	M	cis-1,3-Dichloropropene	125.000	117.990	5.6	91	0.00
36	M	4-Methyl-2-pentanone	250.000	0.000	100.0#	0	-7.91#
37	S	TOLUENE-D8	50.000	51.952	-3.9	102	0.00
38	M	Toluene	125.000	121.247	3.0	100	0.00
39	I	CHLOROBENZENE-D5	50.000	50.000	0.0	100	0.00
40	M	trans-1,3-Dichloropropene	125.000	111.256	11.0	91	0.00
41	M	1,1,2-Trichloroethane	125.000	110.108	11.9	93	0.00
42	M	Tetrachloroethene	125.000	119.161	4.7	96	0.00
43	M	1,3-Dichloropropane	125.000	109.844	12.1	92	0.00
44	M	2-Hexanone	250.000	0.000	100.0#	0	-8.76#
45	M	Dibromochloromethane	125.000	102.014	18.4	85	0.00
46	M	1,2-Dibromoethane (EDB)	125.000	105.452	15.6	88	0.00
47	M	Chlorobenzene	125.000	111.022	11.2	94	0.00
48	M	1,1,1,2-Tetrachloroethane	125.000	106.455	14.8	91	0.00
49	M	Ethylbenzene	125.000	111.727	10.6	94	0.00
50	M	m+p-Xylene	250.000	220.228	11.9	94	0.00
51	M	o-Xylene	125.000	113.403	9.3	99	0.00
52	M	Styrene	125.000	106.450	14.8	94	0.00
53	M	Bromoform	125.000	107.837	13.7	92	0.00

Dichlorodifluoromethane exceeded %Dev criteria in the ICV QC sample and has been flagged appropriately in the LIMS report.

All analytes with %Dev of 100 were not spiked in the ICV sample -KO 12.23.19

Evaluate Continuing Calibration Report

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_12.D
Acq On : 12 Dec 2019 4:25 pm
Operator : ko
Sample : ICV
Misc : LIMS 19L1101, 19L1204, 19L1205
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 13 10:33:53 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
54	M	Isopropylbenzene	125.000	108.004	13.6	92	0.00
55	S	4-BROMOFLUOROBENZENE	50.000	47.136	5.7	97	0.00
56	M	Bromobenzene	125.000	115.341	7.7	96	0.00
57	M	1,2,3-Trichloropropane	125.000	108.047	13.6	89	0.00
58	M	n-Propylbenzene	125.000	108.280	13.4	91	0.00
59	M	2-Chlorotoluene	125.000	111.469	10.8	94	0.00
60	M	1,3,5-Trimethylbenzene	125.000	110.757	11.4	95	0.00
61	M	4-Chlorotoluene	125.000	107.812	13.8	92	0.00
62	I	1,4-DICHLOROBENZENE-D4	50.000	50.000	0.0	98	0.00
63	M	1,1,2,2-Tetrachloroethane	125.000	119.589	4.3	93	0.00
64	M	tert-Butylbenzene	125.000	126.876	-1.5	95	0.00
65	M	1,2,4-Trimethylbenzene	125.000	114.427	8.5	91	0.00
66	M	sec-Butylbenzene	125.000	117.437	6.1	90	0.00
67	M	1,3-Dichlorobenzene	125.000	124.622	0.3	100	0.00
68	M	p-Isopropyltoluene	125.000	118.336	5.3	93	0.00
69	M	1,4-Dichlorobenzene	125.000	119.338	4.5	92	0.00
70	M	1,2-Dichlorobenzene	125.000	114.238	8.6	93	0.00
71	M	n-Butylbenzene	125.000	113.589	9.1	90	0.00
72	M	1,2-Dibromo-3-chloropropane	125.000	119.542	4.4	97	0.00
73	M	1,2,4-Trichlorobenzene	125.000	123.285	1.4	97	0.00
74	M	Hexachlorobutadiene	125.000	120.931	3.3	88	0.00
75	M	Naphthalene	125.000	127.328	-1.9	100	0.00
76	M	1,2,3-Trichlorobenzene	125.000	117.046	6.4	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Date Printed: 12/17/2019

Environmental Protection Agency Region 5

Chicago Regional Laboratory

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Volatiles in WATER Preparation Bench Sheet

Analyst(s): Kelsey O'Malley

Field Samples Acid Preserved?: Yes (X) No ( )

Batch Number: B19L021

Analyses Included On This Benchsheet

VOA - 8260

Surrogate 1: 19L1101 Amount: 5uL

Sample Number	Source ID for Duplicate or MS/MSD	LCS/MS Spike #1 LIMS ID	LCS/MS Spike #1 Amount (uL)	LCS/MS Spike #2 LIMS ID	LCS/MS Spike #2 Amount (uL)	Sample Volume (mL)	pH	Dil 1	Dil 2	Dil 3	Comments
1912013-01 A						5	1	1X			
1912013-02 A						5	1	50X			50x dilution NR
1912013-02RE1 B						5	1	1X			
1912013-03 A						5	1	50X			50x dilution NR
1912013-03RE1 B						5	1	1X			
1912013-04 A						5	1	50X			50x dilution NR
1912013-04RE1 B						5	1	1X			
1912013-05 A						5	1	50X			50x dilution ~~NR~~ KO 12.20.19
1912013-05RE1 B						5	1	2X			
1912013-06 A						5	1	50X			50x dilution NR
1912013-06RE1 B						5	1	1X			
1912013-07 A						5	1	~~50X~~ 1X KO 12.17.19			
B19L021-BLK1	-					5					Method Blank
B19L021-BLK2	-					5					Storage Blank
B19L021-BLK3	-					5					Method Blank
B19L021-BS1	-	19L1201	2.5	19L1812	2.5	5					
B19L021-BS2	-	"	"	"	"	5					

Batch Comments:

NR = not reported

No MS/MSD assigned to this batch - KO 12.17.19

NOTE: Information not provided on this bench sheet is documented with the original observations (e.g. laboratory notebook).

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date Printed: 12/17/2019

Volatiles in WATER Preparation Bench Sheet

Analyst(s): Kelsey O'Malley

Field Samples Acid Preserved?: Yes (X) No ( )

Batch Number: B19L021
Analyses Included On This Benchsheet

VOA - 8260

Surrogate 1: 19L1101 Amount: 5uL

Sample Number	Source ID for Duplicate or MS/MSD	LCS/MS Spike #1 LIMS ID	LCS/MS Spike #1 Amount (uL)	LCS/MS Spike #2 LIMS ID	LCS/MS Spike #2 Amount (uL)	Sample Volume (mL)	pH	Dil 1	Dil 2	Dil 3	Comments
B19L021-BSD1	-	19L1201	2.5	19L1812	2.5	5					
B19L021-BSD2	-	"	"	"	"	5					

pH paper LIMS ID: 18D1901

Other reagents LIMS ID(s): _____

Batch Comments: QC does not require pH measurements -KO 12.19.19

NOTE: Information not provided on this bench sheet is documented with the original observations (e.g. laboratory notebook).

Schedule "GCMS11_191216" version 5

Instrument: Atomx #1
Last Save Time: Monday, December 16, 2019 at 2:17:23 PM
Creation Time: Monday, December 16, 2019 at 12:43:18 PM

Comments: None

Line	Use?	Vial	Method	Type	STD 1	STD 2	STD 3	Dilution
1	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
2	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
3	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
4	Yes	1	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
5	Yes	2	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
6	Yes	3	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
7	Yes	4	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
8	Yes	5	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
9	Yes	6	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
10	Yes	7	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
11	Yes	8	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
12	Yes	9	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
13	Yes	10	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
14	Yes	11	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
15	Yes	12	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
16	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
17	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
18	Yes	13	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
19	Yes	14	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
20	Yes	15	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
21	Yes	16	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
22	Yes	17	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
23	Yes	18	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
24	Yes	19	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
25	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
26	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
27	Yes	20	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
28	Yes	21	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
29	Yes	22	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
30	Yes	23	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
31	Yes	24	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
32	Yes	25	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
33	Yes	26	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
34	Yes	27	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
35	Yes	28	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
36	Yes	29	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
37	Yes	30	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1

Schedule "GCMS11_191218" version 6

Instrument: Atomx #1
Last Save Time: Thursday, December 19, 2019 at 4:25:15 PM
Creation Time: Wednesday, December 18, 2019 at 5:28:35 PM

Comments: None

Line	Use?	Vial	Method	Type	STD 1	STD 2	STD 3	Dilution
1	Yes	1	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
2	Yes	2	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
3	Yes	3	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
4	Yes	4	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
5	Yes	5	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
6	Yes	6	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
7	Yes	7	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
8	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
9	Yes	8	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
10	Yes	9	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
11	Yes	10	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
12	Yes	11	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
13	Yes	12	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
14	Yes	13	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
15	Yes	14	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
16	Yes	15	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
17	Yes	16	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
18	Yes	17	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
19	Yes	18	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
20	Yes	19	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
21	Yes	20	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
22	Yes	21	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:2
23	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
24	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
25	Yes	22	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:2
26	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
27	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
28	Yes	23	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
29	Yes	24	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:5
30	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
31	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
32	Yes	25	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:2
33	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
34	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
35	Yes	26	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:2
36	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
37	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
38	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
39	Yes	27	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:2
40	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
41	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
42	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
43	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
44	Yes	28	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:5

45	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
46	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
47	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
48	Yes	29	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
49	Yes	30	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:50
50	Yes	31	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
51	Yes	32	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
52	Yes	33	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
53	Yes	34	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:2
54	Yes	35	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
55	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
56	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
57	Yes	36	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
58	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
59	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
60	Yes	37	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
61	Yes	38	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
62	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
63	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
64	Yes	39	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
65	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
66	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
67	Yes	40	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
68	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
69	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
70	Yes	41	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
71	Yes	42	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
72	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
73	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
74	Yes	43	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
75	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
76	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
77	Yes	44	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:5
78	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
79	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
80	Yes	BLK	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1
81	Yes	45	Method 8260C/624 water 105C soil valve	Water	0	5	0	1:1

2019 Dec 16 1244 Sequence Log

Starting sequence Mon Dec 16 12:44:50 2019

Instrument Name: GC MS 11
Sequence File: D:\MKERR\SEQUENCES\GCMS11_191216s.s
Comment:
Operator: ko
Data Path: D:\KELSEY\191216\
Method Path: D:\MKERR\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	Blank	99	IB1		
	Datafile		GCMS11_191216_01		
	Method		GCMS11_190612_ACQ		
2)	Blank	99	IB2		
	Datafile		GCMS11_191216_02		
	Method		GCMS11_190612_ACQ		
3)	Blank	99	IB3		
	Datafile		GCMS11_191216_03		
	Method		GCMS11_190612_ACQ		
4)	Sample	1	B19L016-BS1		
	Datafile		GCMS11_191216_04		
	Method		GCMS11_190612_ACQ		
5)	Blank	2	B19L016-BLK1		
	Datafile		GCMS11_191216_05		
	Method		GCMS11_190612_ACQ		
6)	Blank	3	B19L016-BLK2		
	Datafile		GCMS11_191216_06		
	Method		GCMS11_190612_ACQ		
7)	Sample	4	1912011-21		
	Datafile		GCMS11_191216_07		
	Method		GCMS11_190612_ACQ		
8)	Sample	5	1912011-22		
	Datafile		GCMS11_191216_08		
	Method		GCMS11_190612_ACQ		
9)	Sample	6	1912011-23		
	Datafile		GCMS11_191216_09		
	Method		GCMS11_190612_ACQ		
10)	Sample	7	1912011-24		
	Datafile		GCMS11_191216_10		
	Method		GCMS11_190612_ACQ		
11)	Sample	8	1912011-25		
	Datafile		GCMS11_191216_11		
	Method		GCMS11_190612_ACQ		
12)	Sample	9	1912011-26		
	Datafile		GCMS11_191216_12		
	Method		GCMS11_190612_ACQ		
13)	Sample	10	1912011-27		

```
     Datafile          GCMS11_191216_13
     Method            GCMS11_190612_ACQ
14) Sample        11   1912011-28
     Datafile          GCMS11_191216_14
     Method            GCMS11_190612_ACQ
15) Sample        12   1912011-29
     Datafile          GCMS11_191216_15
     Method            GCMS11_190612_ACQ
16) Blank         99   IB4
     Datafile          GCMS11_191216_16
     Method            GCMS11_190612_ACQ
17) Blank         99   IB5
     Datafile          GCMS11_191216_17
     Method            GCMS11_190612_ACQ
18) Spike         13   B19L016-BSD1
     Datafile          GCMS11_191216_18
     Method            GCMS11_190612_ACQ
19) Sample        14   1912011-30
     Datafile          GCMS11_191216_19
     Method            GCMS11_190612_ACQ
20) Sample        15   1912011-31
     Datafile          GCMS11_191216_20
     Method            GCMS11_190612_ACQ
21) Sample        16   1912011-32
     Datafile          GCMS11_191216_21
     Method            GCMS11_190612_ACQ
22) Sample        17   1912011-33
     Datafile          GCMS11_191216_22
     Method            GCMS11_190612_ACQ
23) Sample        18   1912011-34
     Datafile          GCMS11_191216_23
     Method            GCMS11_190612_ACQ
24) Sample        19   1912011-35
     Datafile          GCMS11_191216_24
     Method            GCMS11_190612_ACQ
25) Blank         99   IB6
     Datafile          GCMS11_191216_25
     Method            GCMS11_190612_ACQ
26) Blank         99   IB7
     Datafile          GCMS11_191216_26
     Method            GCMS11_190612_ACQ
27) Spike         20   B19L021-BS1
     Datafile          GCMS11_191216_27
     Method            GCMS11_190612_ACQ
28) Blank         21   B19L021-BLK1
     Datafile          GCMS11_191216_28
     Method            GCMS11_190612_ACQ
29) Blank         22   B19L021-BLK2
```

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                        2019 Dec 16 1244 Sequence Log
     Datafile           GCMS11_191216_29
     Method             GCMS11_190612_ACQ
 30) Sample        23   1912013-01
     Datafile           GCMS11_191216_30
     Method             GCMS11_190612_ACQ
 31) Sample        24   1912013-02
     Datafile           GCMS11_191216_31
     Method             GCMS11_190612_ACQ
 32) Sample        25   1912013-03
     Datafile           GCMS11_191216_32
     Method             GCMS11_190612_ACQ
 33) Sample        26   1912013-04
     Datafile           GCMS11_191216_33
     Method             GCMS11_190612_ACQ
 34) Sample        27   1912013-05
     Datafile           GCMS11_191216_34
     Method             GCMS11_190612_ACQ
 35) Sample        28   1912013-06
     Datafile           GCMS11_191216_35
     Method             GCMS11_190612_ACQ
 36) Sample        29   1912013-07
     Datafile           GCMS11_191216_36
     Method             GCMS11_190612_ACQ
 37) Sample        30   B19L021-BSD1
     Datafile           GCMS11_191216_37
     Method             GCMS11_190612_ACQ

Sequence completed Tue Dec 17 07:10:42 2019

  D:\KELSEY\191216\2019 Dec 16 1244 Quality Log.LOG
  D:\KELSEY\191216\2019 Dec 16 1244 Sequence Log .LOG
```

2019 Dec 18 1730 Sequence Log

Starting sequence Wed Dec 18 17:30:50 2019

Instrument Name: GC MS 11
Sequence File: D:\MKERR\SEQUENCES\GCMS11_191218.s
Comment:
Operator: ko
Data Path: D:\KELSEY\191218\
Method Path: D:\MKERR\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	BFB	99	BFB DIRECT INJECT		
	Datafile		GCMS11_191218_01		
	Method		BFB_8260B		
2)	Spike	1	B19L021-BS1		
	Datafile		GCMS11_191218_02		
	Method		GCMS11_190612_ACQ		
3)	Blank	2	B19L021-BLK3		
	Datafile		GCMS11_191218_03		
	Method		GCMS11_190612_ACQ		
4)	Spike	3	1912013-02RE1		
	Datafile		GCMS11_191218_04		
	Method		GCMS11_190612_ACQ		
5)	Sample	4	1912013-03RE1		
	Datafile		GCMS11_191218_05		
	Method		GCMS11_190612_ACQ		
6)	Sample	5	1912013-04RE1		
	Datafile		GCMS11_191218_06		
	Method		GCMS11_190612_ACQ		
7)	Sample	6	1912013-06RE1		
	Datafile		GCMS11_191218_07		
	Method		GCMS11_190612_ACQ		
8)	Sample	7	1912013-05RE1		
	Datafile		GCMS11_191218_08		
	Method		GCMS11_190612_ACQ		
9)	Blank	99	IB		
	Datafile		GCMS11_191218_09		
	Method		GCMS11_190612_ACQ		
10)	Spike	8	B19L021-BSD1		
	Datafile		GCMS11_191218_10		
	Method		GCMS11_190612_ACQ		
11)	Blank	9	B19L025-BLK1		
	Datafile		GCMS11_191218_11		
	Method		GCMS11_190612_ACQ		
12)	Sample	10	1912011-33RE1		
	Datafile		GCMS11_191218_12		
	Method		GCMS11_190612_ACQ		
13)	Sample	11	1912011-28RE1		

```
     Datafile         GCMS11_191218_13
     Method           GCMS11_190612_ACQ
14) Sample        12  B19L025-MS2
     Datafile         GCMS11_191218_14
     Method           GCMS11_190612_ACQ
15) Sample        13  B19L025-MSD2
     Datafile         GCMS11_191218_15
     Method           GCMS11_190612_ACQ
16) Sample        14  1912011-31RE1
     Datafile         GCMS11_191218_16
     Method           GCMS11_190612_ACQ
17) Sample        15  B19L025-MS3
     Datafile         GCMS11_191218_17
     Method           GCMS11_190612_ACQ
18) Sample        16  B19L025-MSD3
     Datafile         GCMS11_191218_18
     Method           GCMS11_190612_ACQ
19) Sample        17  1912011-27RE1
     Datafile         GCMS11_191218_19
     Method           GCMS11_190612_ACQ
20) Sample        18  1912011-29RE1
     Datafile         GCMS11_191218_20
     Method           GCMS11_190612_ACQ
21) Sample        19  1912011-30RE1
     Datafile         GCMS11_191218_21
     Method           GCMS11_190612_ACQ
22) Sample        20  1912011-32RE1
     Datafile         GCMS11_191218_22
     Method           GCMS11_190612_ACQ
23) Sample        21  1912011-24RE1
     Datafile         GCMS11_191218_23
     Method           GCMS11_190612_ACQ
24) Blank         99  IB1
     Datafile         GCMS11_191218_24
     Method           GCMS11_190612_ACQ
25) Blank         99  IB2
     Datafile         GCMS11_191218_25
     Method           GCMS11_190612_ACQ
26) Sample        22  1912011-23RE1
     Datafile         GCMS11_191218_26
     Method           GCMS11_190612_ACQ
27) Blank         99  IB3
     Datafile         GCMS11_191218_27
     Method           GCMS11_190612_ACQ
28) Blank         99  IB4
     Datafile         GCMS11_191218_28
     Method           GCMS11_190612_ACQ
29) Spike         23  B19L025-BS1
```

```
     Datafile         GCMS11_191218_29
     Method           GCMS11_190612_ACQ
30) Sample        24  1912011-25RE1
     Datafile         GCMS11_191218_30
     Method           GCMS11_190612_ACQ
31) Blank         99  IB5
     Datafile         GCMS11_191218_31
     Method           GCMS11_190612_ACQ
32) Blank         99  IB6
     Datafile         GCMS11_191218_32
     Method           GCMS11_190612_ACQ
33) Sample        25  1912011-22RE1
     Datafile         GCMS11_191218_33
     Method           GCMS11_190612_ACQ
34) Blank         99  IB7
     Datafile         GCMS11_191218_34
     Method           GCMS11_190612_ACQ
35) Blank         99  IB8
     Datafile         GCMS11_191218_35
     Method           GCMS11_190612_ACQ
36) Sample        26  1912011-35RE1
     Datafile         GCMS11_191218_36
     Method           GCMS11_190612_ACQ
37) Blank         99  IB9
     Datafile         GCMS11_191218_37
     Method           GCMS11_190612_ACQ
38) Blank         99  IB10
     Datafile         GCMS11_191218_38
     Method           GCMS11_190612_ACQ
39) Blank         99  IB11
     Datafile         GCMS11_191218_39
     Method           GCMS11_190612_ACQ
40) Sample        27  1912011-26RE1
     Datafile         GCMS11_191218_40
     Method           GCMS11_190612_ACQ
41) Blank         99  IB12
     Datafile         GCMS11_191218_41
     Method           GCMS11_190612_ACQ
42) Blank         99  IB13
     Datafile         GCMS11_191218_42
     Method           GCMS11_190612_ACQ
43) Blank         99  IB14
     Datafile         GCMS11_191218_43
     Method           GCMS11_190612_ACQ
44) Sample        28  1912011-21RE1
     Datafile         GCMS11_191218_44
     Method           GCMS11_190612_ACQ
45) Blank         99  IB16
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```
                        2019 Dec 18 1730 Sequence Log
     Datafile           GCMS11_191218_45
     Method             GCMS11_190612_ACQ
 46) Blank          99  IB17
     Datafile           GCMS11_191218_46
     Method             GCMS11_190612_ACQ
 47) Sample         29  B19L025-MS1
     Datafile           GCMS11_191218_47
     Method             GCMS11_190612_ACQ
 48) Blank          99  IB18
     Datafile           GCMS11_191218_48
     Method             GCMS11_190612_ACQ
Sequence Table edit performed Thu Dec 19 16:13:18 2019
 49) Sample         29  B19L025-MS1 (sequence mismatch)
     Datafile           GCMS11_191218_49
     Method             GCMS11_190612_ACQ
 50) Sample         30  B19L025-MSD1
     Datafile           GCMS11_191218_50
     Method             GCMS11_190612_ACQ
 51) Sample         31  B19L025-BSD1
     Datafile           GCMS11_191218_51
     Method             GCMS11_190612_ACQ
 52) Blank          32  B19L026-BLK1
     Datafile           GCMS11_191218_53
     Method             GCMS11_190612_ACQ
 53) Blank          33  B19L026-BLK2
     Datafile           GCMS11_191218_54
     Method             GCMS11_190612_ACQ
 54) Sample         34  1912011-32RE2
     Datafile           GCMS11_191218_55
     Method             GCMS11_190612_ACQ
 55) Sample         35  1912011-03RE2
     Datafile           GCMS11_191218_56
     Method             GCMS11_190612_ACQ
 56) Blank          99  IB1
     Datafile           GCMS11_191218_57
     Method             GCMS11_190612_ACQ
 57) Blank          99  IB2
     Datafile           GCMS11_191218_58
     Method             GCMS11_190612_ACQ
 58) Sample         36  1912009-02RE2
     Datafile           GCMS11_191218_59
     Method             GCMS11_190612_ACQ
 59) Blank          99  IB3
     Datafile           GCMS11_191218_60
     Method             GCMS11_190612_ACQ
 60) Blank          99  IB4
     Datafile           GCMS11_191218_61
     Method             GCMS11_190612_ACQ
```

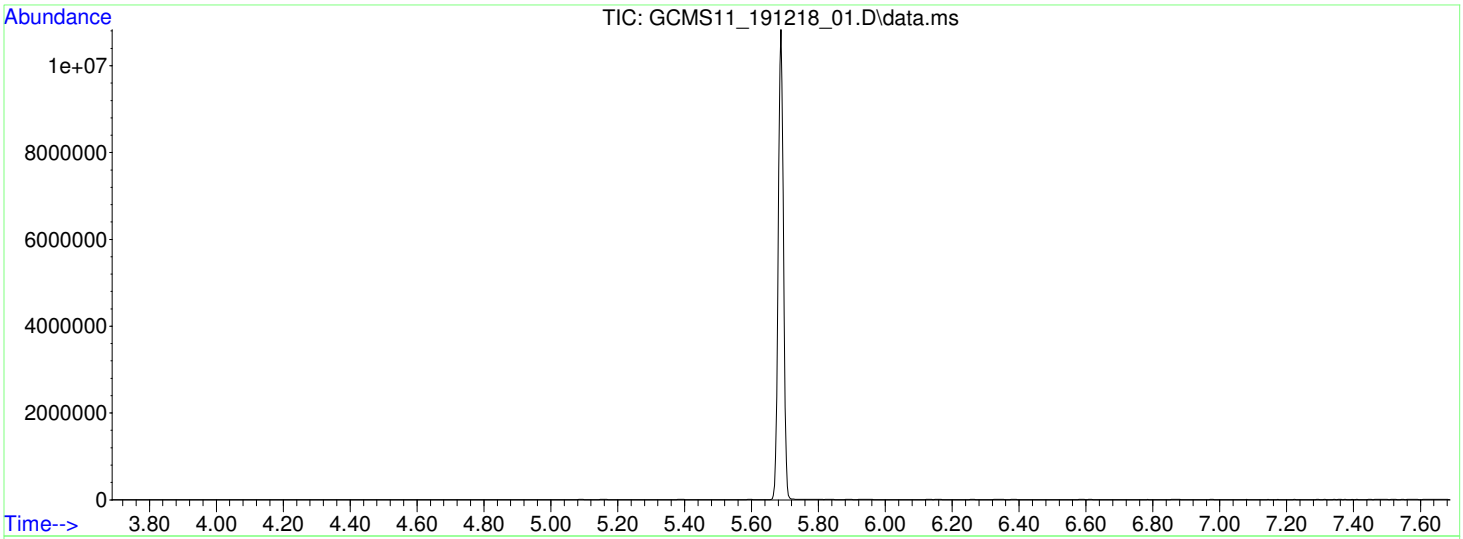
```
61) Spike         37  B19L026-BS1
     Datafile         GCMS11_191218_52
     Method           GCMS11_190612_ACQ
62) Sample        38  1912011-23RE2
     Datafile         GCMS11_191218_62
     Method           GCMS11_190612_ACQ
63) Blank         99  IB5
     Datafile         GCMS11_191218_63
     Method           GCMS11_190612_ACQ
64) Blank         99  IB6
     Datafile         GCMS11_191218_64
     Method           GCMS11_190612_ACQ
65) Sample        39  1912011-07RE2
     Datafile         GCMS11_191218_65
     Method           GCMS11_190612_ACQ
66) Blank         99  IB7
     Datafile         GCMS11_191218_66
     Method           GCMS11_190612_ACQ
67) Blank         99  IB8
     Datafile         GCMS11_191218_67
     Method           GCMS11_190612_ACQ
68) Sample        40  1912011-25RE2
     Datafile         GCMS11_191218_68
     Method           GCMS11_190612_ACQ
69) Blank         99  IB9
     Datafile         GCMS11_191218_69
     Method           GCMS11_190612_ACQ
70) Blank         99  IB10
     Datafile         GCMS11_191218_70
     Method           GCMS11_190612_ACQ
71) Spike         41  B19L026-CCV1
     Datafile         GCMS11_191218_71
     Method           GCMS11_190612_ACQ
72) Sample        42  1912011-24RE2
     Datafile         GCMS11_191218_72
     Method           GCMS11_190612_ACQ
73) Blank         99  IB11
     Datafile         GCMS11_191218_73
     Method           GCMS11_190612_ACQ
74) Blank         99  IB12
     Datafile         GCMS11_191218_74
     Method           GCMS11_190612_ACQ
75) Sample        43  1912011-22RE2
     Datafile         GCMS11_191218_75
     Method           GCMS11_190612_ACQ
76) Blank         99  IB13
     Datafile         GCMS11_191218_76
     Method           GCMS11_190612_ACQ
```

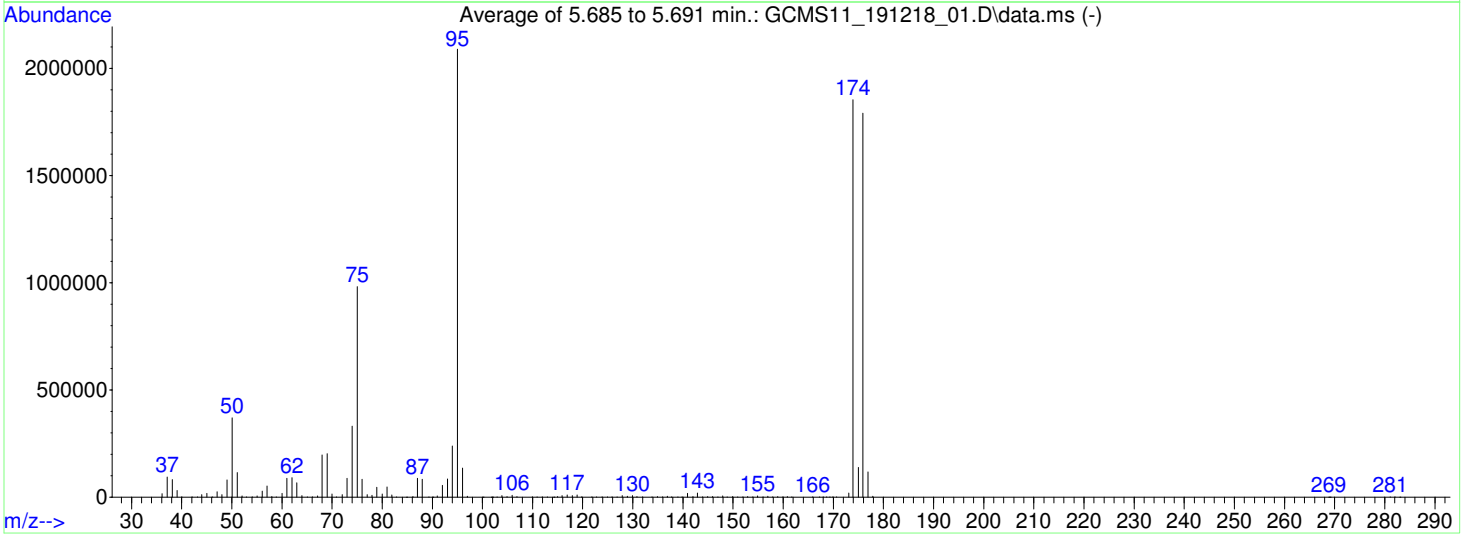
```
                        2019 Dec 18 1730 Sequence Log
 77) Blank         99  IB14
      Datafile         GCMS11_191218_77
      Method           GCMS11_190612_ACQ
 78) Sample        44  1912011-08RE2
      Datafile         GCMS11_191218_78
      Method           GCMS11_190612_ACQ
 79) Blank         99  IB15
      Datafile         GCMS11_191218_79
      Method           GCMS11_190612_ACQ
 80) Blank         99  IB16
      Datafile         GCMS11_191218_80
      Method           GCMS11_190612_ACQ
 81) Blank         99  IB17
      Datafile         GCMS11_191218_81
      Method           GCMS11_190612_ACQ
 82) Spike         45  B19L026-BSD1
      Datafile         GCMS11_191218_82
      Method           GCMS11_190612_ACQ

Sequence completed Fri Dec 20 08:21:17 2019

  D:\KELSEY\191218\2019 Dec 18 1730 Quality Log.LOG
  D:\KELSEY\191218\2019 Dec 18 1730 Sequence Log .LOG
```

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_01.D
Acq On : 18 Dec 2019 5:31 pm
Operator : ko
Sample : BFB DIRECT INJECT
Misc : LIMS 18G1106
ALS Vial : 99 Sample Multiplier: 1

Integration File: rteint.p

Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Title :
Last Update : Fri Dec 13 10:29:00 2019





AutoFind: Scans 807, 808, 809; Background Corrected with Scan 795

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	370176	PASS
75	95	30	60	47.0	981504	PASS
95	95	100	100	100.0	2089813	PASS
96	95	5	9	6.5	135467	PASS
173	174	0.00	2	1.0	18448	PASS
174	95	50	100	88.7	1852757	PASS
175	174	5	9	7.4	137899	PASS
176	174	95	101	96.7	1790805	PASS
177	176	5	9	6.6	117568	PASS

Method 8260 - BFB Tune Check

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_25.D
Acq On : 17 Dec 2019 12:58 am
Operator : ko
Sample : IB6
Misc : LIMS 19L1101
ALS Vial : 99 Sample Multiplier: 1

Integration File: rteint.p

Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Title :
Last Update : Fri Dec 13 10:29:00 2019

AutoFind: Averaged scan 2978 to 3005; Bkg corrected with scan 2977

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	690	PASS
75	95	30	60	52.0	1746	PASS
95	95	100	100	100.0	3358	PASS
96	95	5	9	7.8	261	PASS
173	174	0.00	2	1.1	36	PASS
174	95	50	100	96.2	3230	PASS
175	174	5	9	6.8	219	PASS
176	174	95	101	98.7	3188	PASS
177	176	5	9	6.1	196	PASS

GCMS11_1912..._FULL LIST.M Tue Dec 17 14:21:39 2019

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_28.D
Acq On : 17 Dec 2019 2:23 am
Operator : ko
Sample : B19L021-BLK1
Misc : LIMS 19L1101
ALS Vial : 21 Sample Multiplier: 1

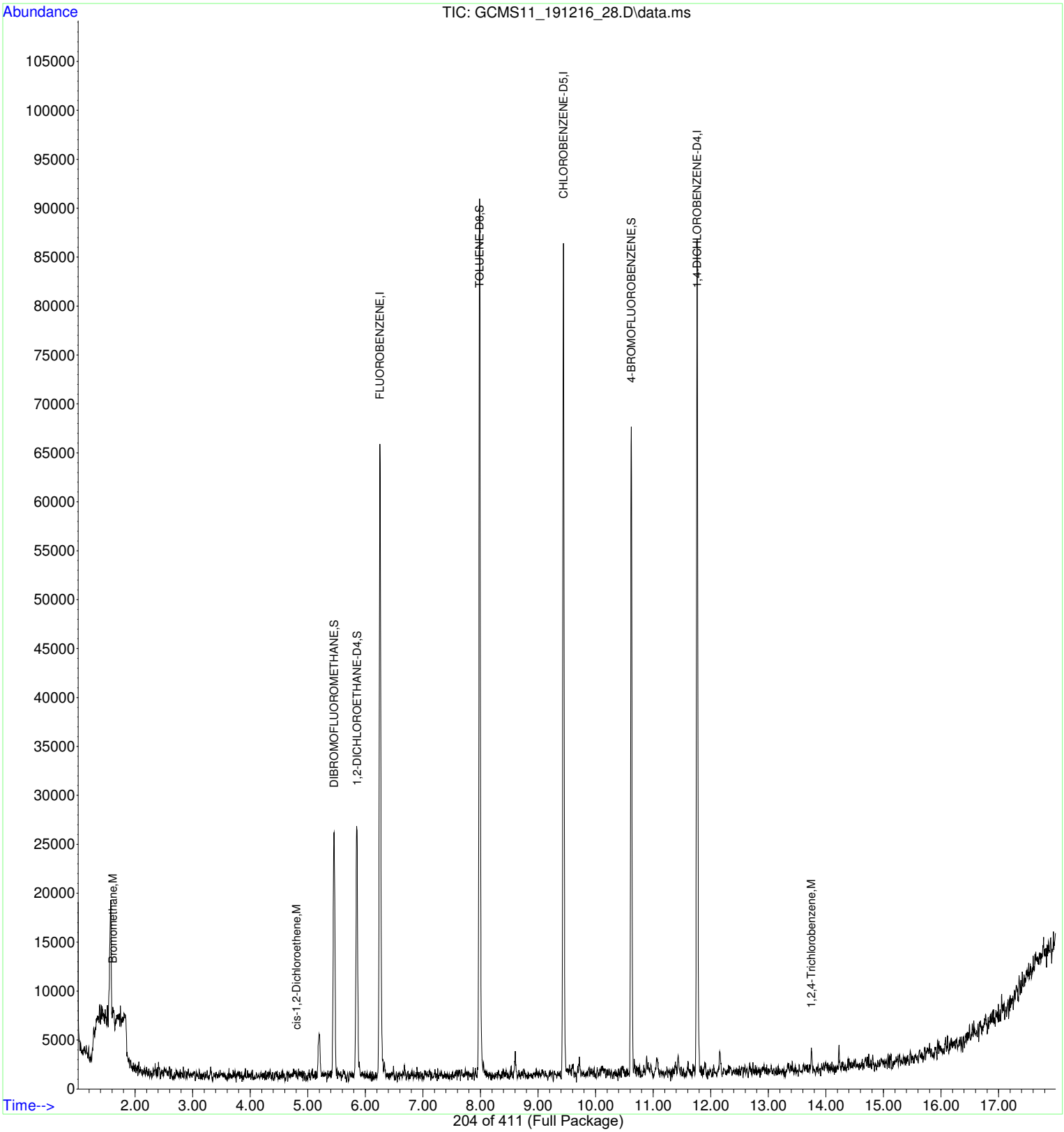
Quant Time: Dec 17 14:45:49 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

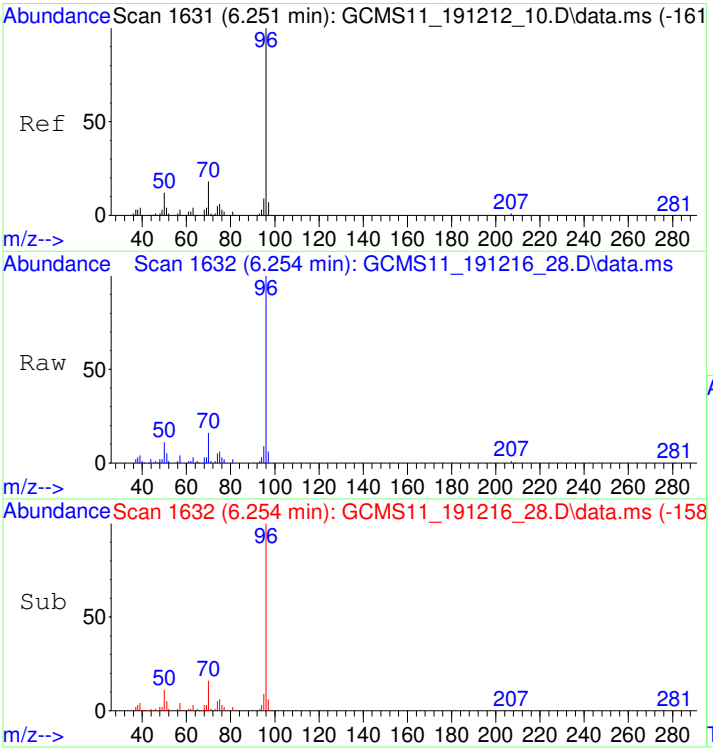
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.25	96	57948	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	22556	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	21107	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.46	113	15240	50.08	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.86	65	18264	50.35	ng	0.00
37) TOLUENE-D8	7.98	98	56256	49.36	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	18989	46.43	ng	0.00
Target Compounds						Qvalue
5) Bromomethane	1.61	96	516m	1.98	ng	
18) cis-1,2-Dichloroethene	4.80	96	549	1.50	ng	# 19
73) 1,2,4-Trichlorobenzene	13.75	180	681	1.43	ng	92

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

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_28.D
Acq On : 17 Dec 2019 2:23 am
Operator : ko
Sample : B19L021-BLK1
Misc : LIMS 19L1101
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 17 14:45:49 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

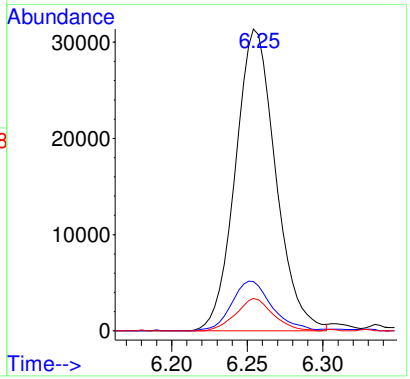


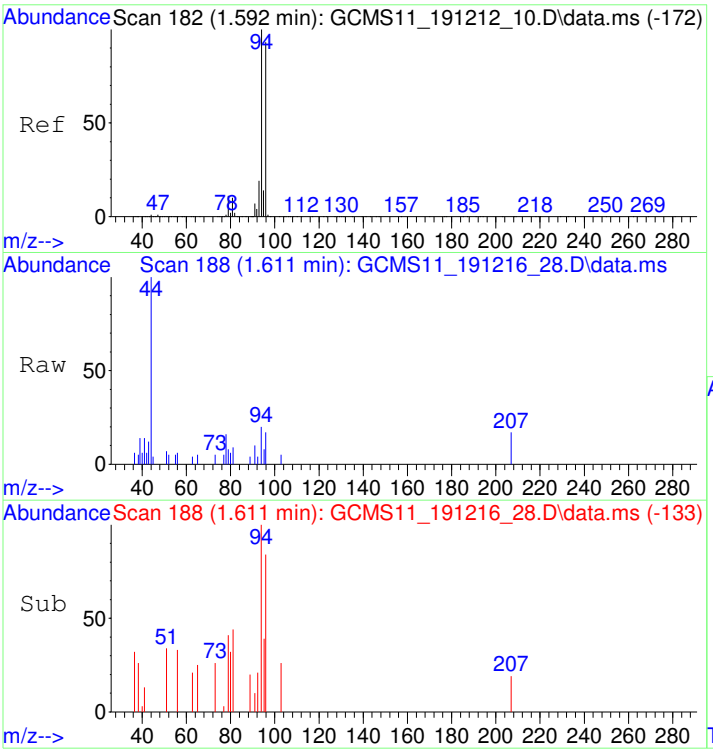


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191216_28.D
Acq: 17 Dec 2019 2:23 am

Tgt Ion: 96 Resp: 57948

Ion	Ratio	Lower	Upper
96	100		
70	16.5	0.0	48.3
50	9.9	0.0	39.5

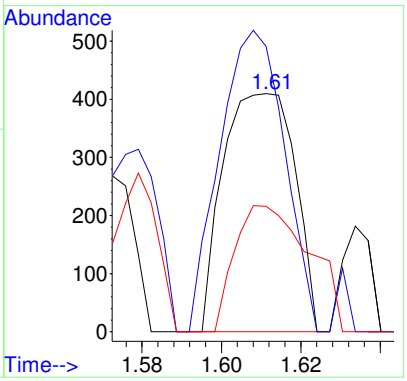


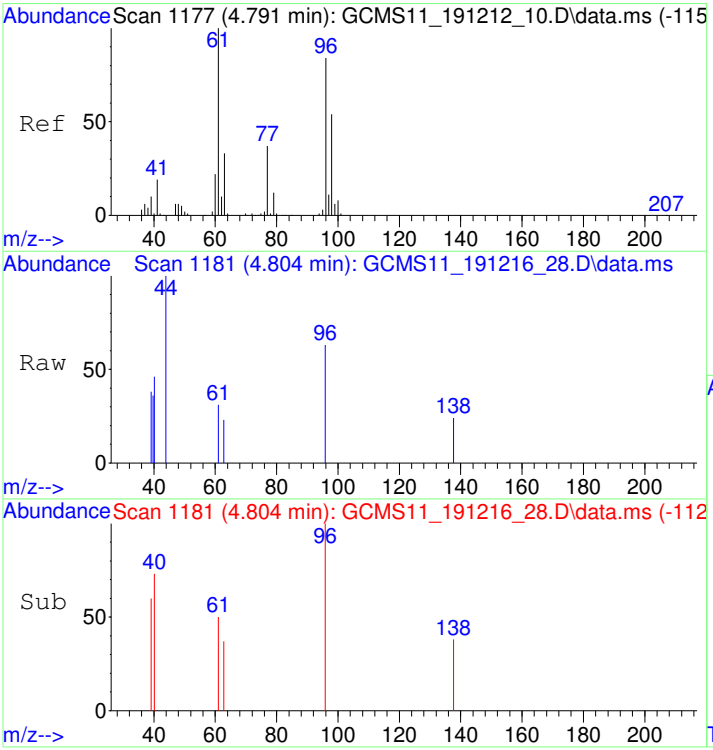


#5
Bromomethane
Concen: 1.98 ng m
RT: 1.61 min Scan# 188
Delta R.T. 0.006 min
Lab File: GCMS11_191216_28.D
Acq: 17 Dec 2019 2:23 am

Tgt Ion: 96 Resp: 516

Ion	Ratio	Lower	Upper
96	100		
94	0.0	74.8	134.8#
81	0.0	0.0	42.0

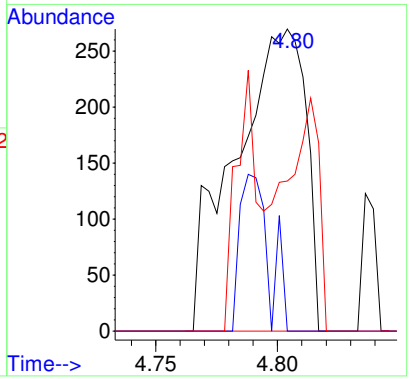


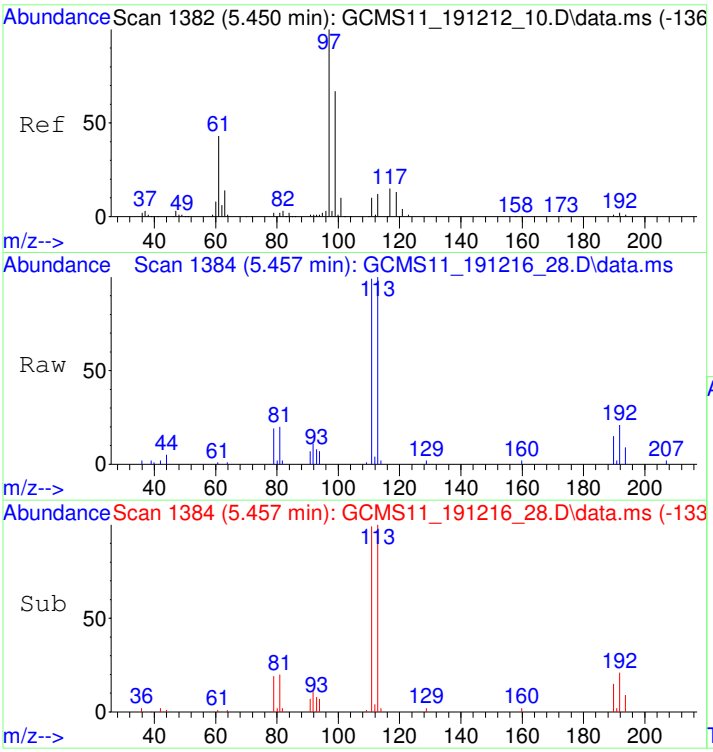


#18
cis-1,2-Dichloroethene
Concen: 1.50 ng
RT: 4.80 min Scan# 1181
Delta R.T. 0.003 min
Lab File: GCMS11_191216_28.D
Acq: 17 Dec 2019 2:23 am

Tgt Ion: 96 Resp: 549

Ion	Ratio	Lower	Upper
96	100		
98	0.0	30.6	90.6#
61	33.5	96.6	156.6#

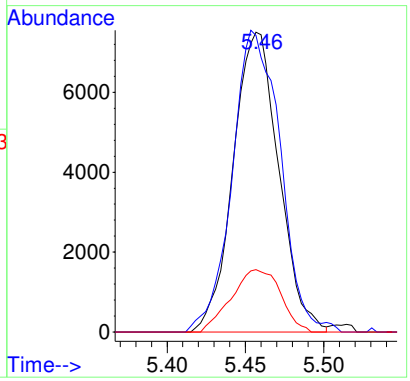


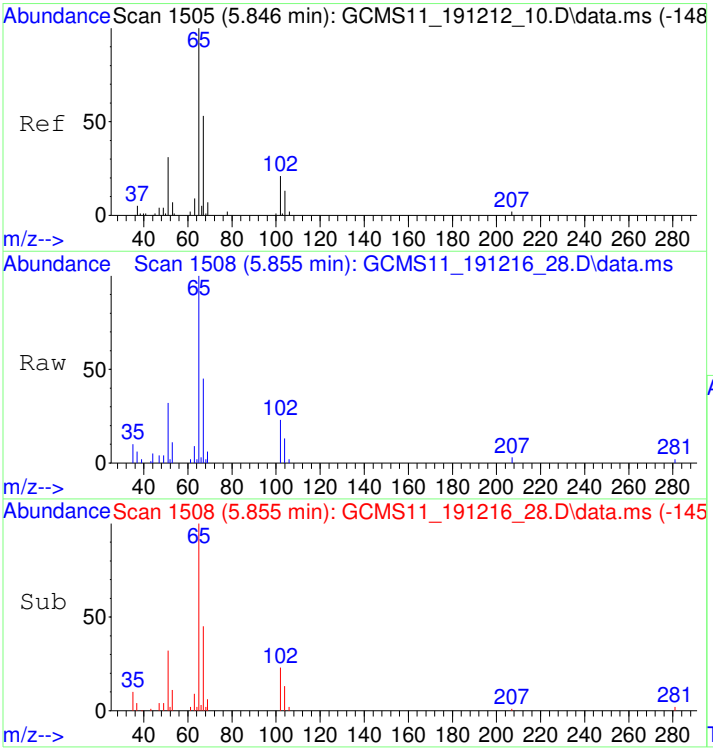


#22
DIBROMOFLUOROMETHANE
Concen: 50.08 ng
RT: 5.46 min Scan# 1384
Delta R.T. -0.003 min
Lab File: GCMS11_191216_28.D
Acq: 17 Dec 2019 2:23 am

Tgt Ion:113 Resp: 15240

Ion	Ratio	Lower	Upper
113	100		
111	105.6	75.2	135.2
192	22.4	0.0	52.1

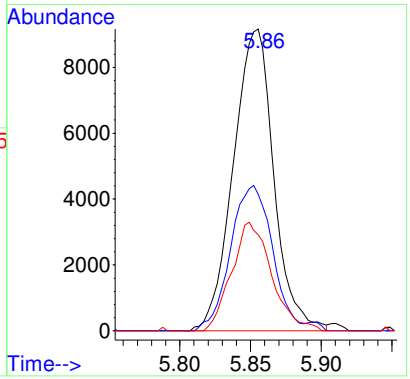


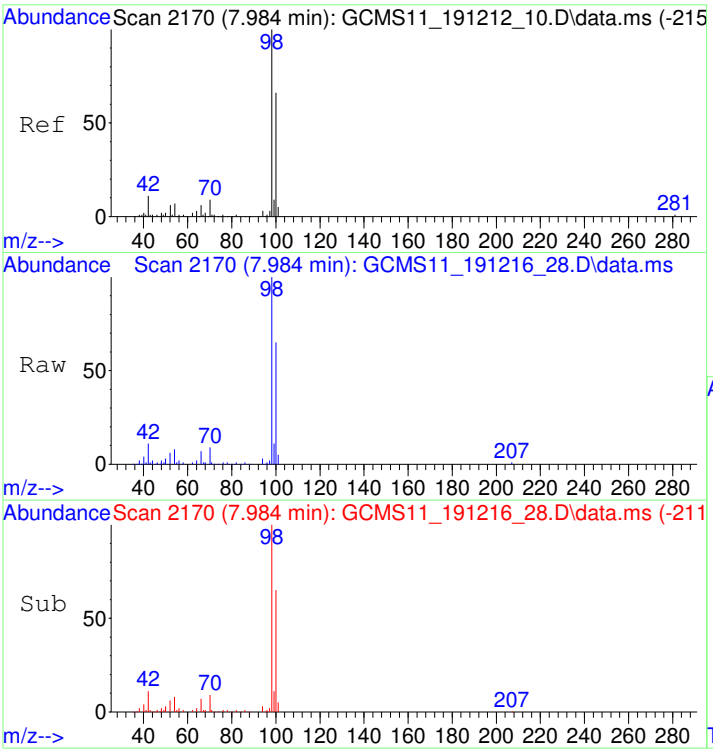


#26
1,2-DICHLOROETHANE-D4
Concen: 50.35 ng
RT: 5.86 min Scan# 1508
Delta R.T. 0.003 min
Lab File: GCMS11_191216_28.D
Acq: 17 Dec 2019 2:23 am

Tgt Ion: 65 Resp: 18264

Ion	Ratio	Lower	Upper
65	100		
67	49.7	15.4	75.4
51	35.6	2.7	62.7

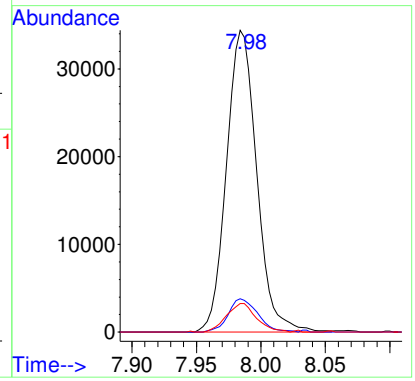


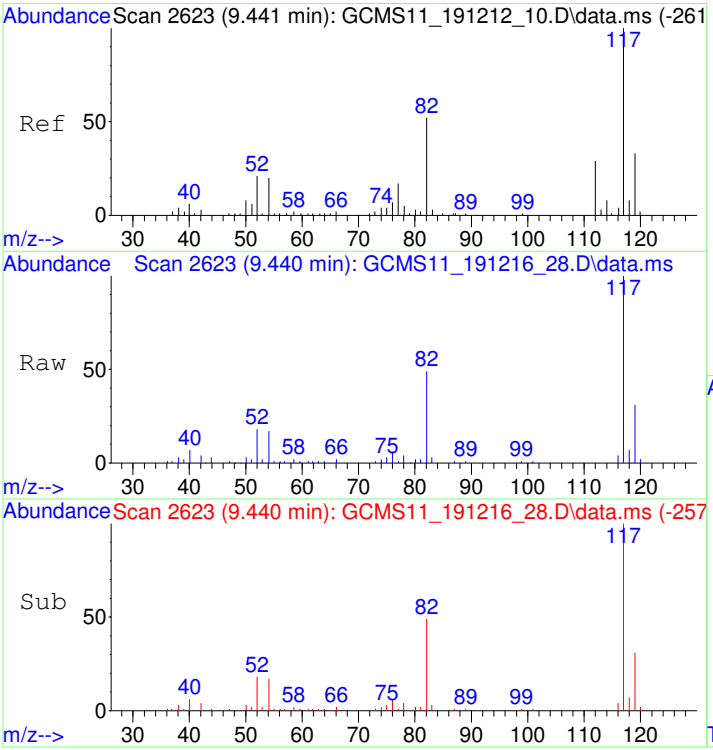


#37
TOLUENE-D8
Concen: 49.36 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191216_28.D
Acq: 17 Dec 2019 2:23 am

Tgt Ion: 98 Resp: 56256

Ion	Ratio	Lower	Upper
98	100		
99	10.8	0.0	39.8
70	9.4	0.0	40.7

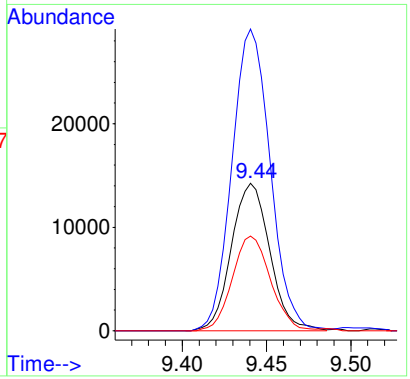


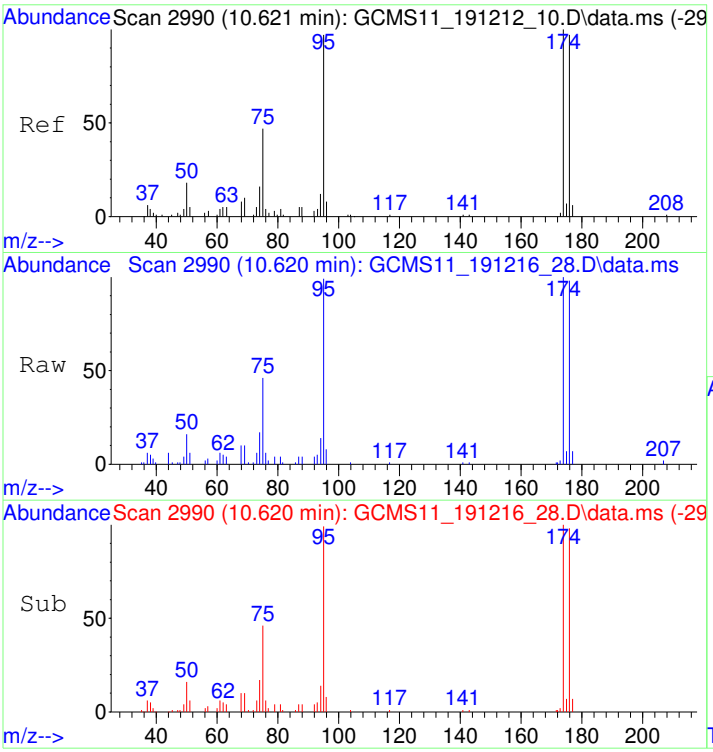


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191216_28.D
Acq: 17 Dec 2019 2:23 am

Tgt Ion: 82 Resp: 22556

Ion	Ratio	Lower	Upper
82	100		
117	203.6	160.7	220.7
119	63.8	33.5	93.5

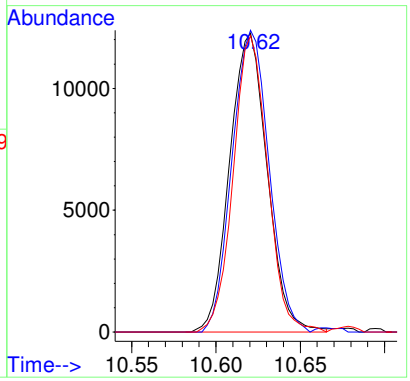


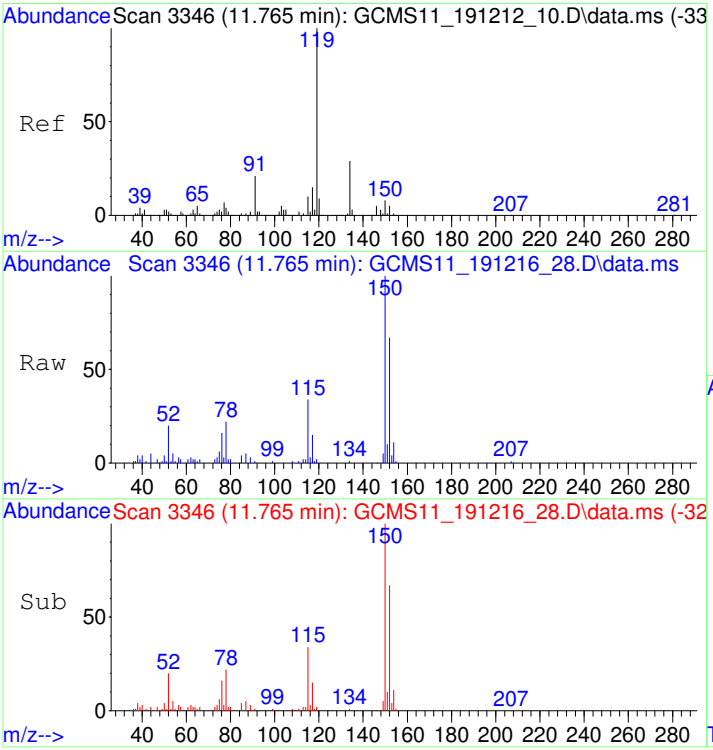


#55
4-BROMOFLUOROBENZENE
Concen: 46.43 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191216_28.D
Acq: 17 Dec 2019 2:23 am

Tgt Ion: 95 Resp: 18989

Ion	Ratio	Lower	Upper
95	100		
174	99.3	68.5	128.5
176	90.3	66.8	126.8

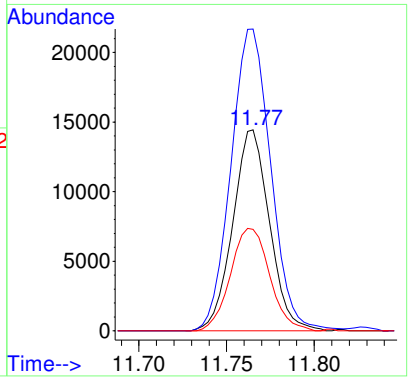


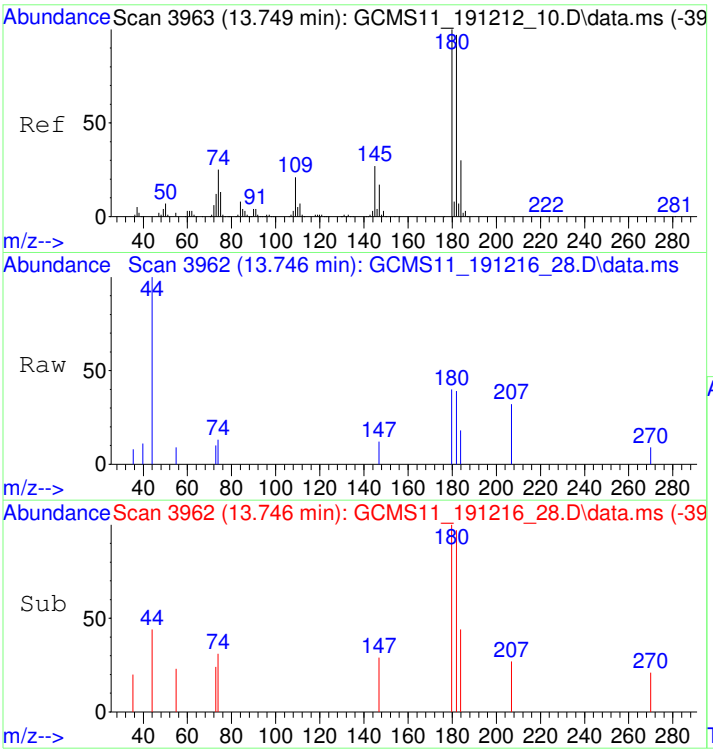


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191216_28.D
Acq: 17 Dec 2019 2:23 am

Tgt Ion:152 Resp: 21107

Ion	Ratio	Lower	Upper
152	100		
150	162.4	162.5	222.5#
115	54.4	82.3	142.3#

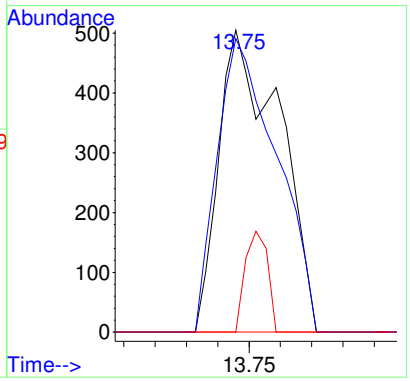




#73
1,2,4-Trichlorobenzene
Concen: 1.43 ng
RT: 13.75 min Scan# 3962
Delta R.T. -0.003 min
Lab File: GCMS11_191216_28.D
Acq: 17 Dec 2019 2:23 am

Tgt Ion:180 Resp: 681

Ion	Ratio	Lower	Upper
180	100		
182	95.4	66.7	126.7
145	12.3	0.0	58.2



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_29.D
Acq On : 17 Dec 2019 2:52 am
Operator : ko
Sample : B19L021-BLK2
Misc : LIMS 19L1101
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 17 14:51:49 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

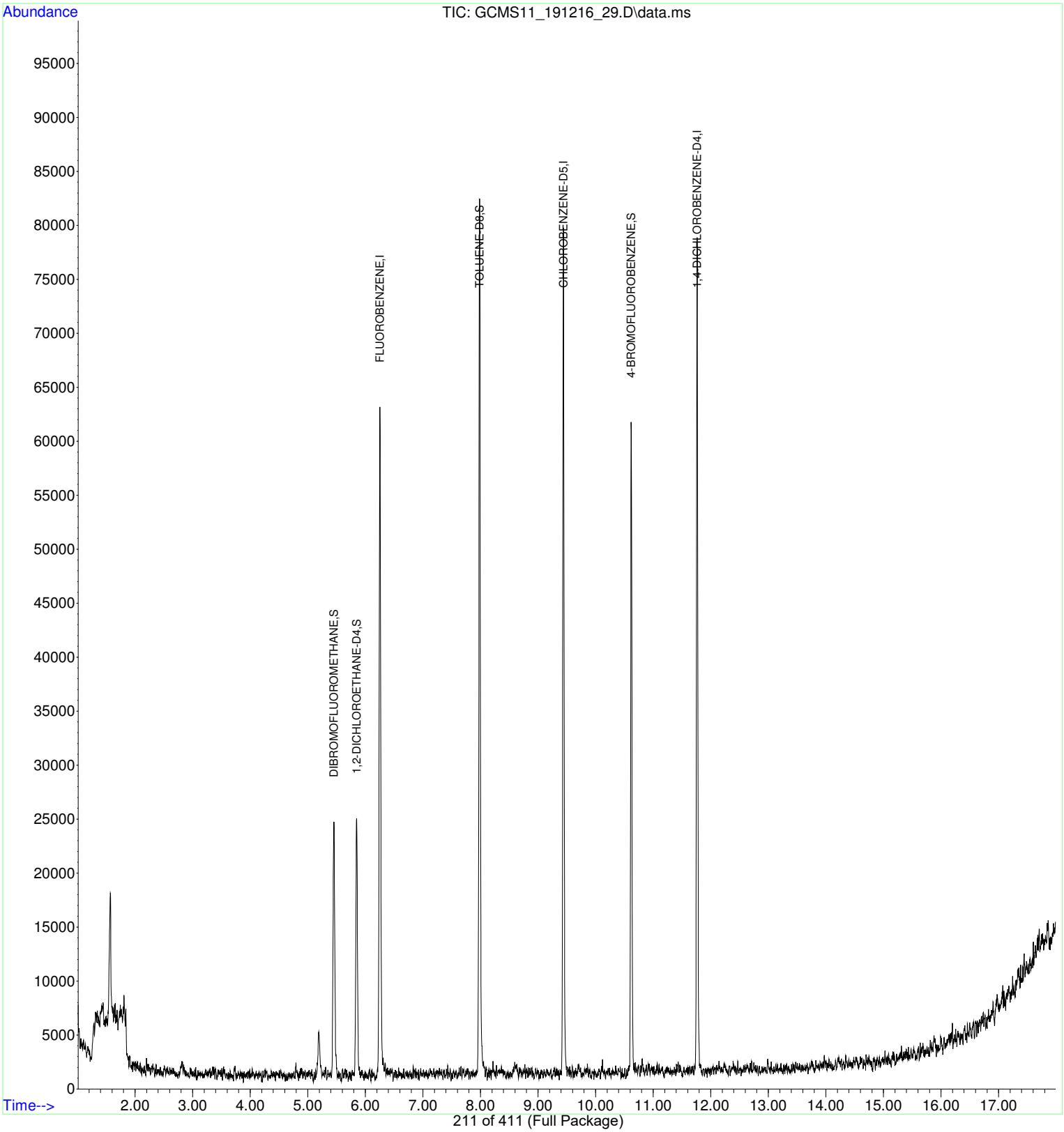
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) FLUOROBENZENE	6.25	96	55751	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	21357	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	19430	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.45	113	14339	48.97 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	16943	48.55 ng	0.00
37) TOLUENE-D8	7.98	98	53736	49.01 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	17847	46.09 ng	0.00

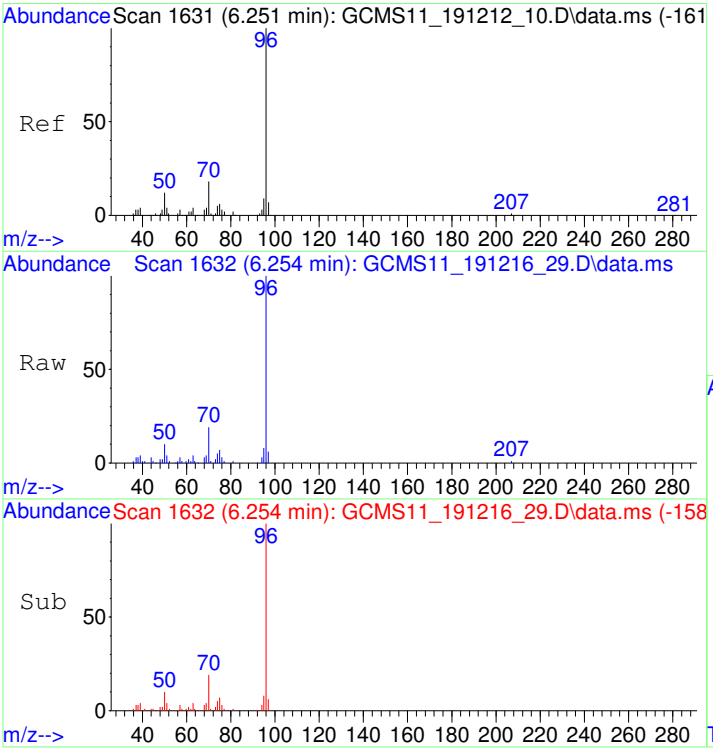
Target Compounds Qvalue

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

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_29.D
Acq On : 17 Dec 2019 2:52 am
Operator : ko
Sample : B19L021-BLK2
Misc : LIMS 19L1101
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 17 14:51:49 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

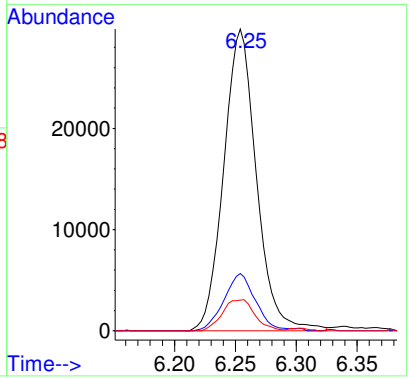


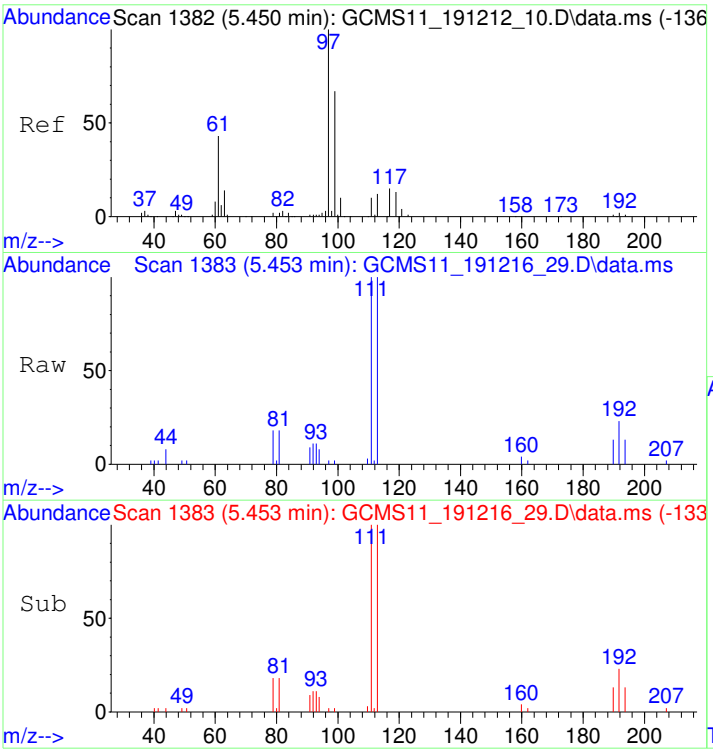


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191216_29.D
Acq: 17 Dec 2019 2:52 am

Tgt Ion: 96 Resp: 55751

Ion	Ratio	Lower	Upper
96	100		
70	18.3	0.0	48.3
50	10.3	0.0	39.5

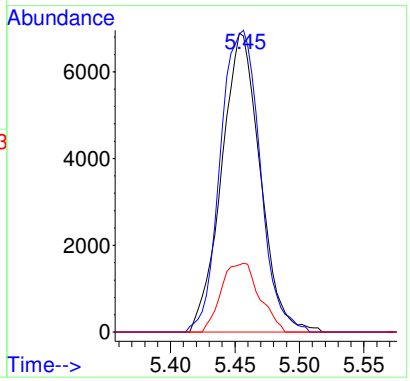


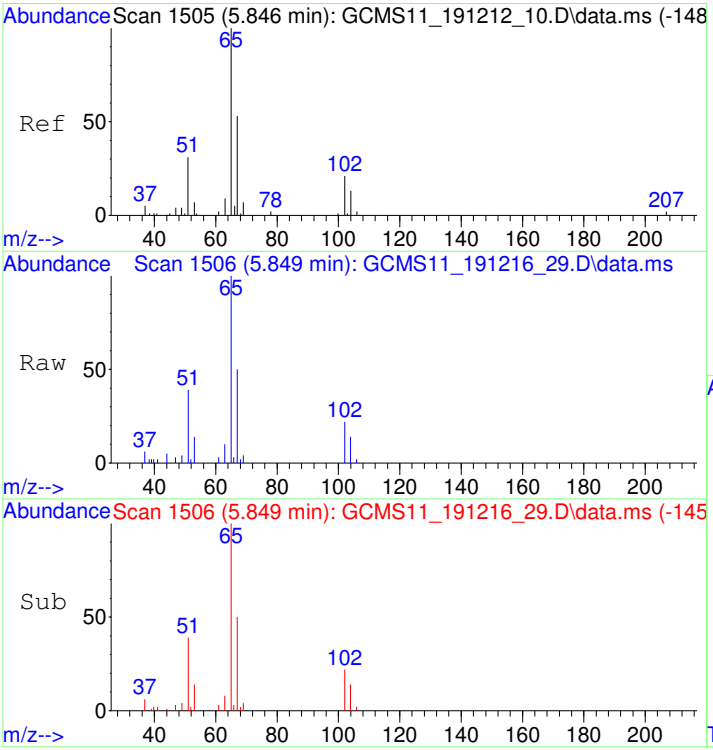


#22
DIBROMOFLUOROMETHANE
Concen: 48.97 ng
RT: 5.45 min Scan# 1383
Delta R.T. -0.006 min
Lab File: GCMS11_191216_29.D
Acq: 17 Dec 2019 2:52 am

Tgt Ion:113 Resp: 14339

Ion	Ratio	Lower	Upper
113	100		
111	103.8	75.2	135.2
192	22.8	0.0	52.1

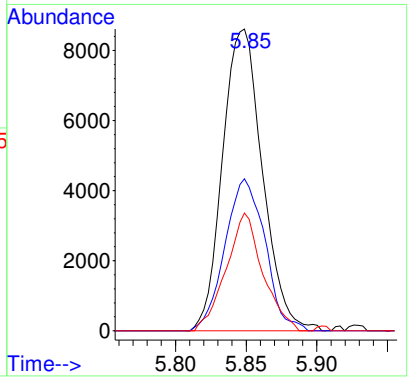


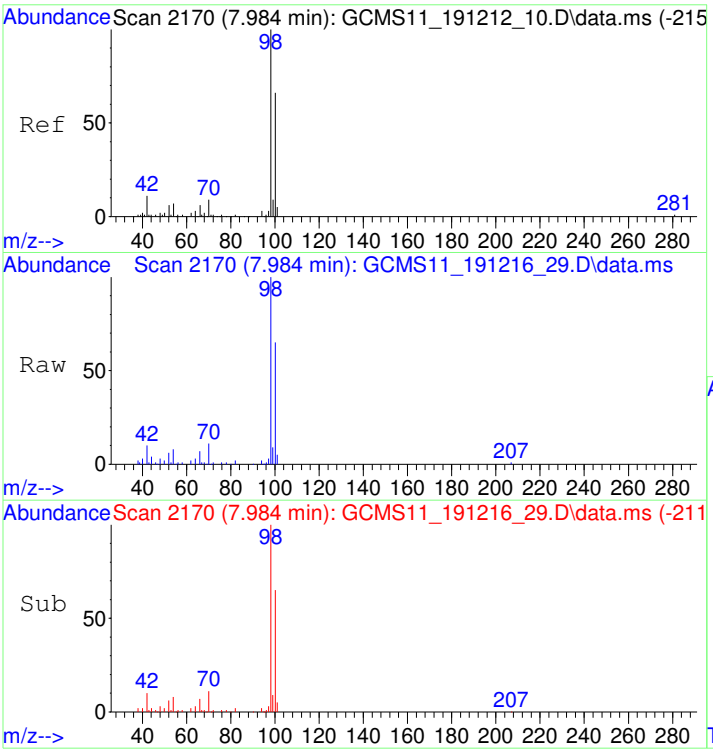


#26
1,2-DICHLOROETHANE-D4
Concen: 48.55 ng
RT: 5.85 min Scan# 1506
Delta R.T. -0.003 min
Lab File: GCMS11_191216_29.D
Acq: 17 Dec 2019 2:52 am

Tgt Ion: 65 Resp: 16943

Ion	Ratio	Lower	Upper
65	100		
67	50.5	15.4	75.4
51	35.7	2.7	62.7

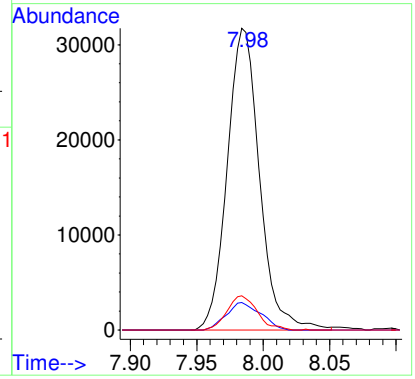


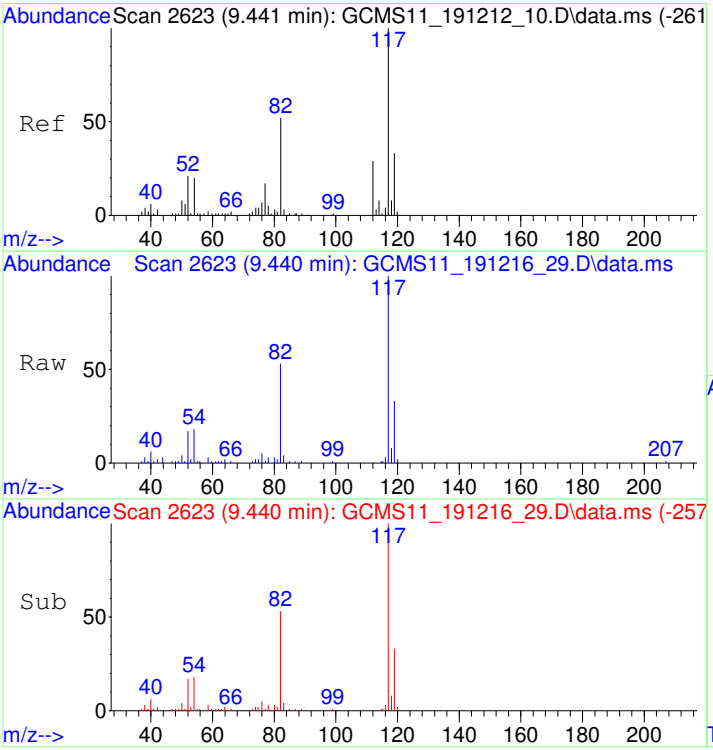


#37
TOLUENE-D8
Concen: 49.01 ng
RT: 7.98 min Scan# 2170
Delta R.T. -0.000 min
Lab File: GCMS11_191216_29.D
Acq: 17 Dec 2019 2:52 am

Tgt Ion: 98 Resp: 53736

Ion	Ratio	Lower	Upper
98	100		
99	9.7	0.0	39.8
70	10.7	0.0	40.7

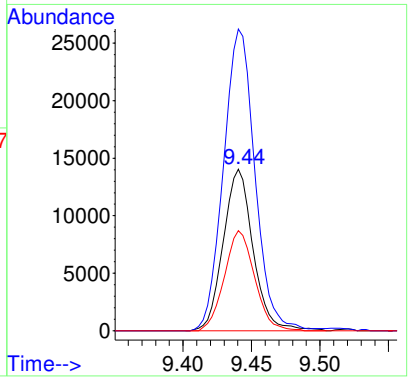


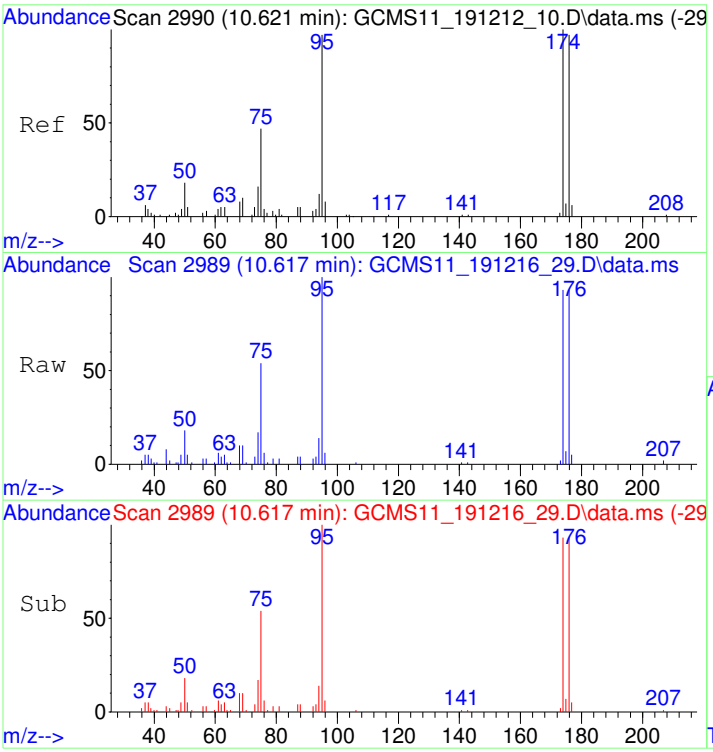


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191216_29.D
Acq: 17 Dec 2019 2:52 am

Tgt Ion: 82 Resp: 21357

Ion	Ratio	Lower	Upper
82	100		
117	196.0	160.7	220.7
119	62.5	33.5	93.5

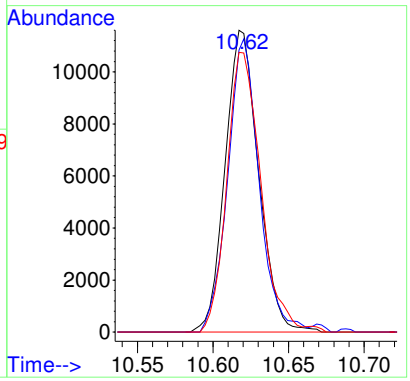


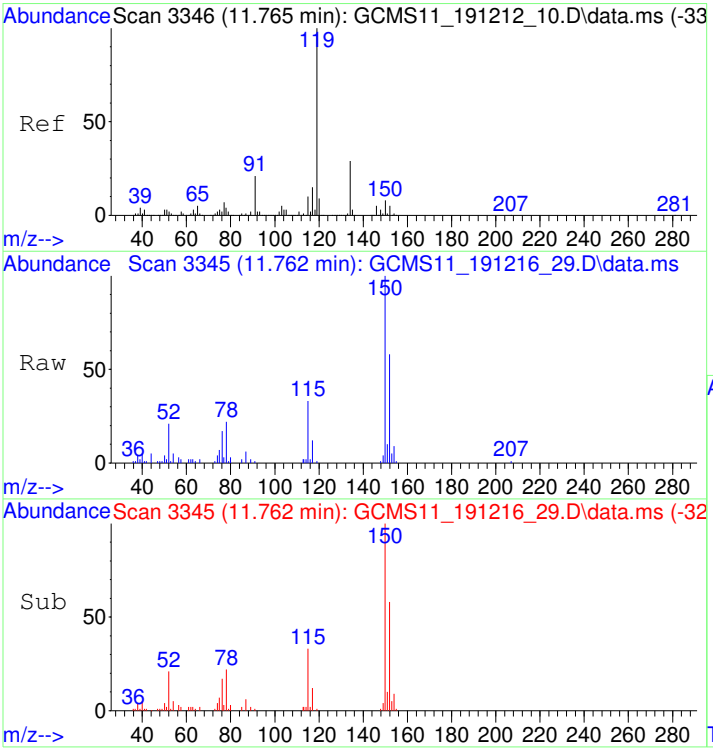


#55
4-BROMOFLUOROBENZENE
Concen: 46.09 ng
RT: 10.62 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191216_29.D
Acq: 17 Dec 2019 2:52 am

Tgt Ion: 95 Resp: 17847

Ion	Ratio	Lower	Upper
95	100		
174	91.0	68.5	128.5
176	94.2	66.8	126.8

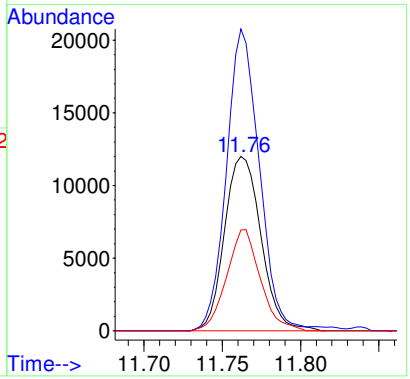




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.76 min Scan# 3345
Delta R.T. -0.003 min
Lab File: GCMS11_191216_29.D
Acq: 17 Dec 2019 2:52 am

Tgt Ion:152 Resp: 19430

Ion	Ratio	Lower	Upper
152	100		
150	157.4	162.5	222.5#
115	53.8	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_03.D
Acq On : 18 Dec 2019 6:20 pm
Operator : ko
Sample : B19L021-BLK3
Misc : LIMS 19L1101, METHOD BLK
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 19 08:29:25 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

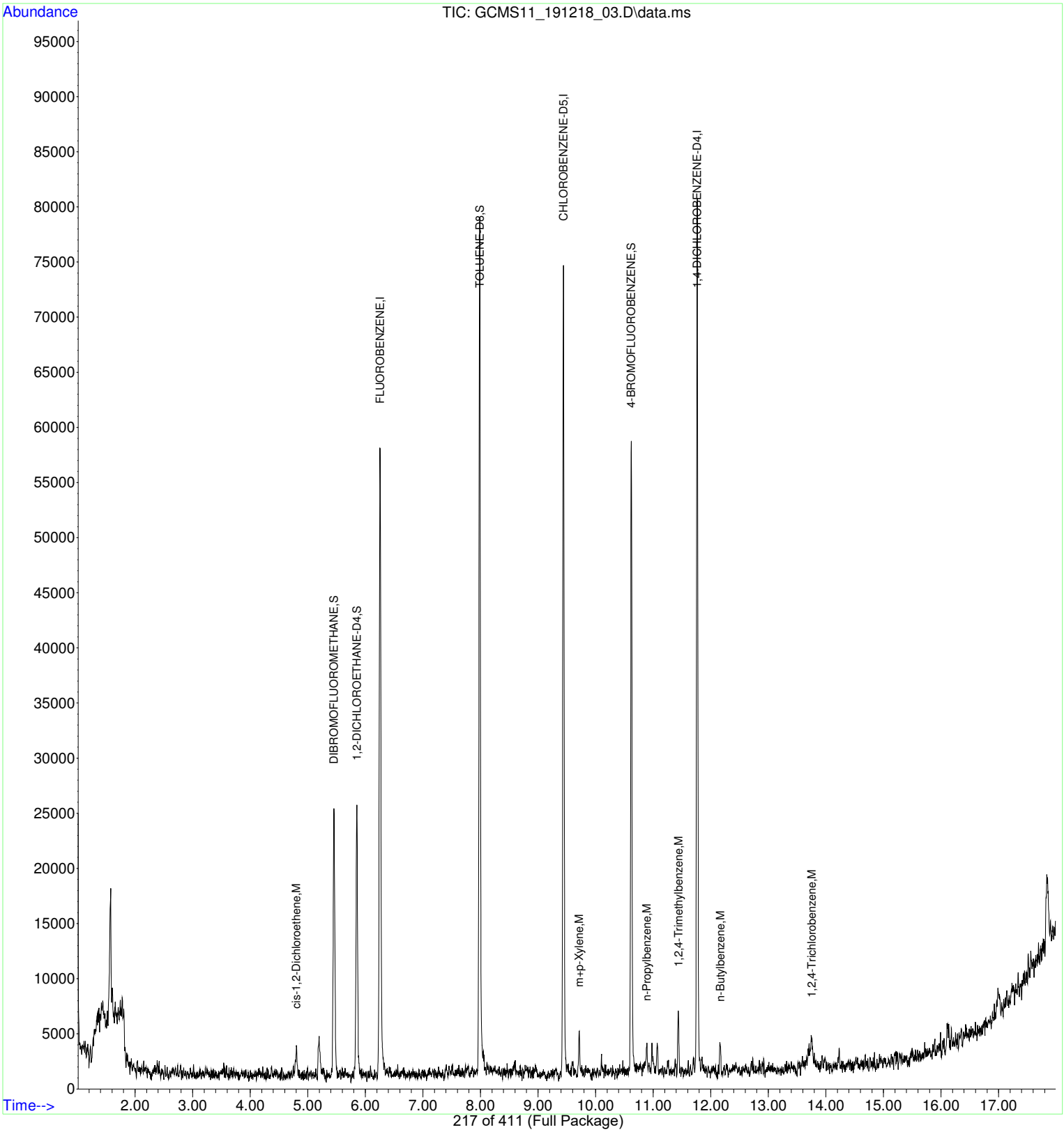
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.26	96	54199	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	20022	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	19505	50.00	ng		# 0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.45	113	14010	49.22	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	16197	47.74	ng		0.00
37) TOLUENE-D8	7.99	98	50393	47.28	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	15955	43.95	ng		0.00
Target Compounds							Qvalue
18) cis-1,2-Dichloroethene	4.80	96	1093	3.19	ng		81
50) m+p-Xylene	9.71	106	1056	1.88	ng		88
58) n-Propylbenzene	10.89	91	1688	1.05	ng	#	86
65) 1,2,4-Trimethylbenzene	11.44	105	2700	2.57	ng		84
71) n-Butylbenzene	12.17	91	1316	1.31	ng		69
73) 1,2,4-Trichlorobenzene	13.75	180	598	1.36	ng		88

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

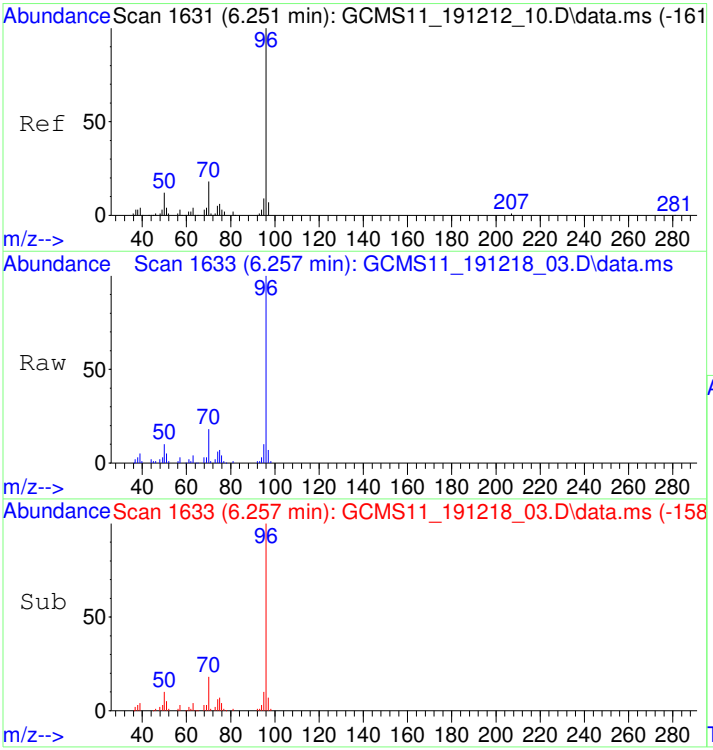
Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_03.D
Acq On : 18 Dec 2019 6:20 pm
Operator : ko
Sample : B19L021-BLK3
Misc : LIMS 19L1101, METHOD BLK
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 19 08:29:25 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration



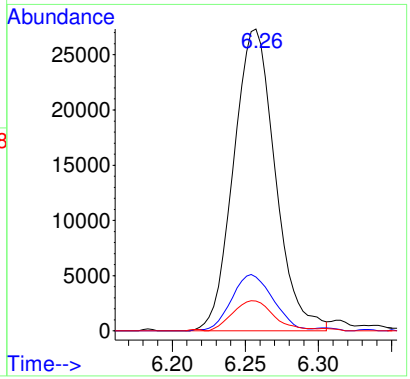
217 of 411 (Full Package)

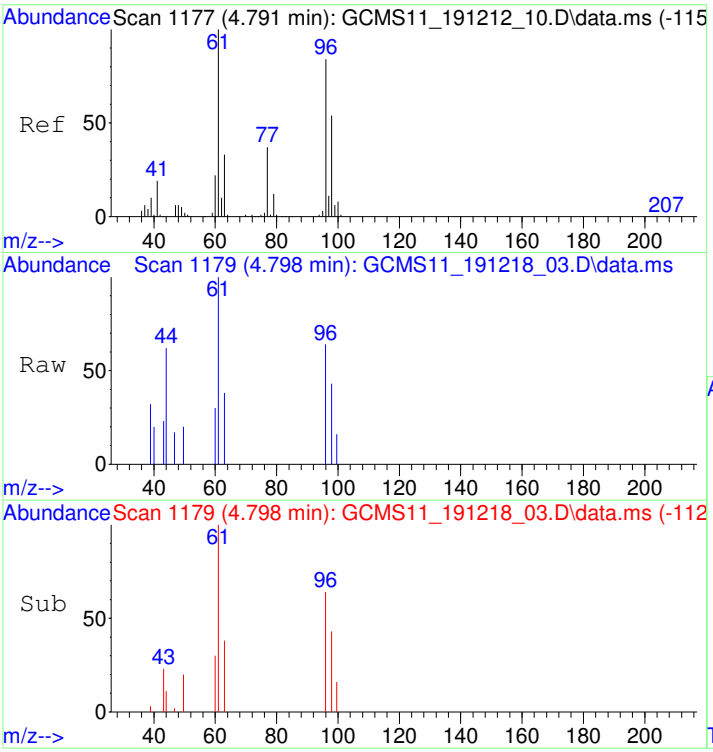


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.26 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191218_03.D
Acq: 18 Dec 2019 6:20 pm

Tgt Ion: 96 Resp: 54199

Ion	Ratio	Lower	Upper
96	100		
70	18.7	0.0	48.3
50	10.0	0.0	39.5

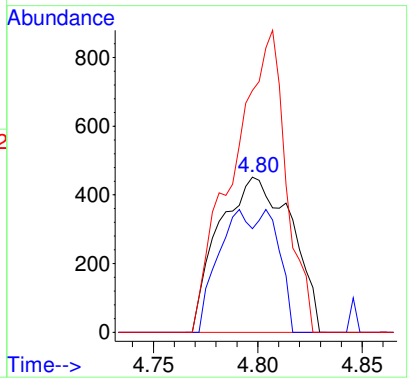


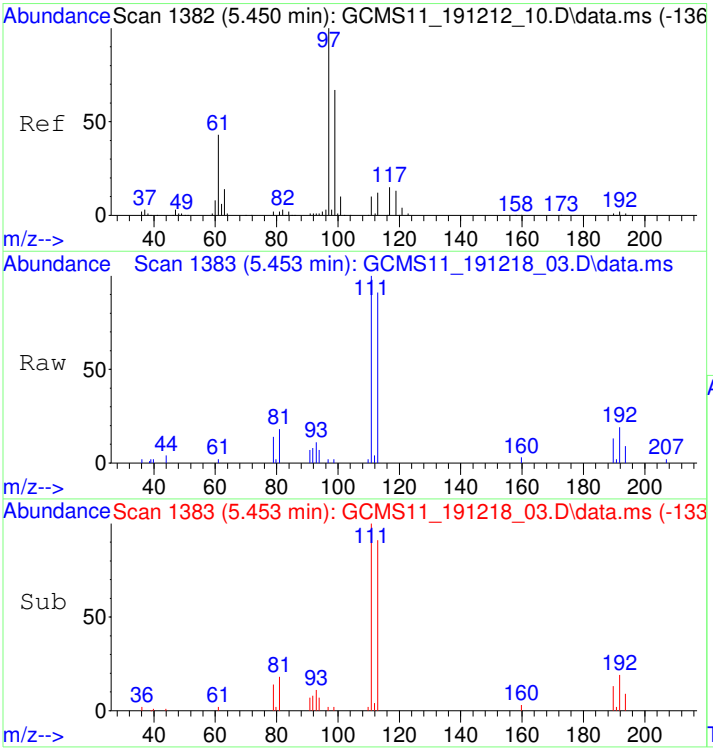


#18
cis-1,2-Dichloroethene
Concen: 3.19 ng
RT: 4.80 min Scan# 1179
Delta R.T. -0.003 min
Lab File: GCMS11_191218_03.D
Acq: 18 Dec 2019 6:20 pm

Tgt Ion: 96 Resp: 1093

Ion	Ratio	Lower	Upper
96	100		
98	37.7	30.6	90.6
61	141.8	96.6	156.6

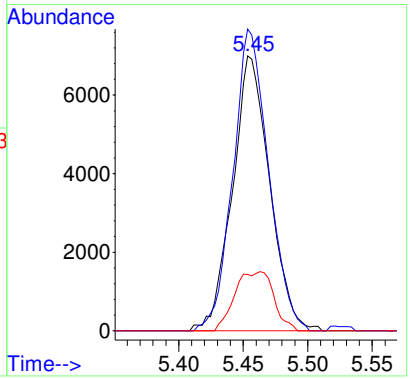


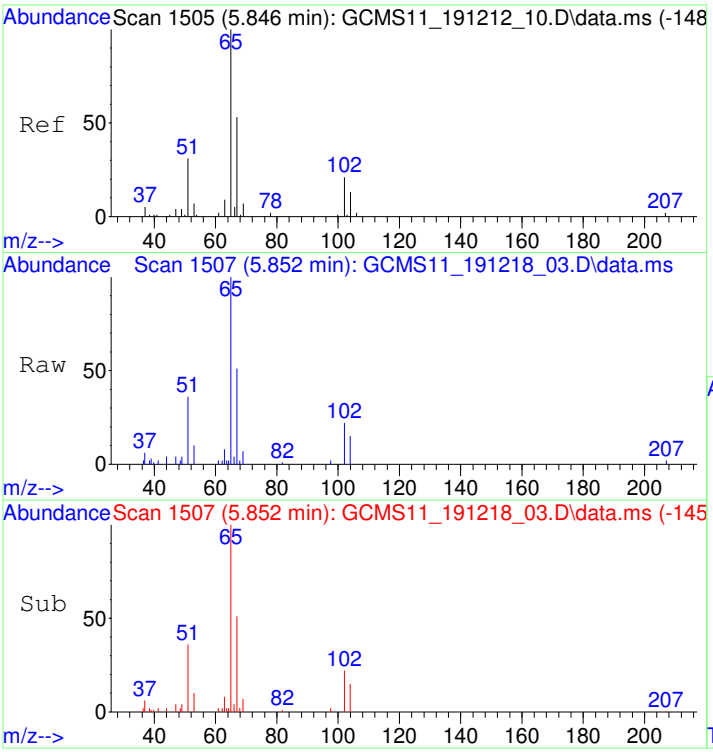


#22
DIBROMOFLUOROMETHANE
Concen: 49.22 ng
RT: 5.45 min Scan# 1383
Delta R.T. -0.006 min
Lab File: GCMS11_191218_03.D
Acq: 18 Dec 2019 6:20 pm

Tgt Ion:113 Resp: 14010

Ion	Ratio	Lower	Upper
113	100		
111	105.0	75.2	135.2
192	22.5	0.0	52.1

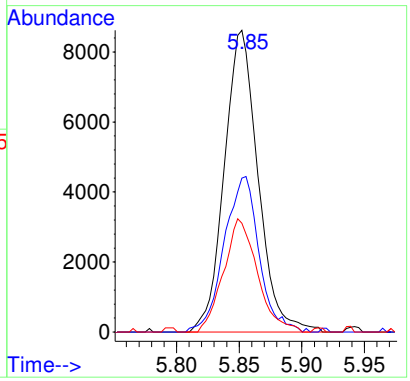


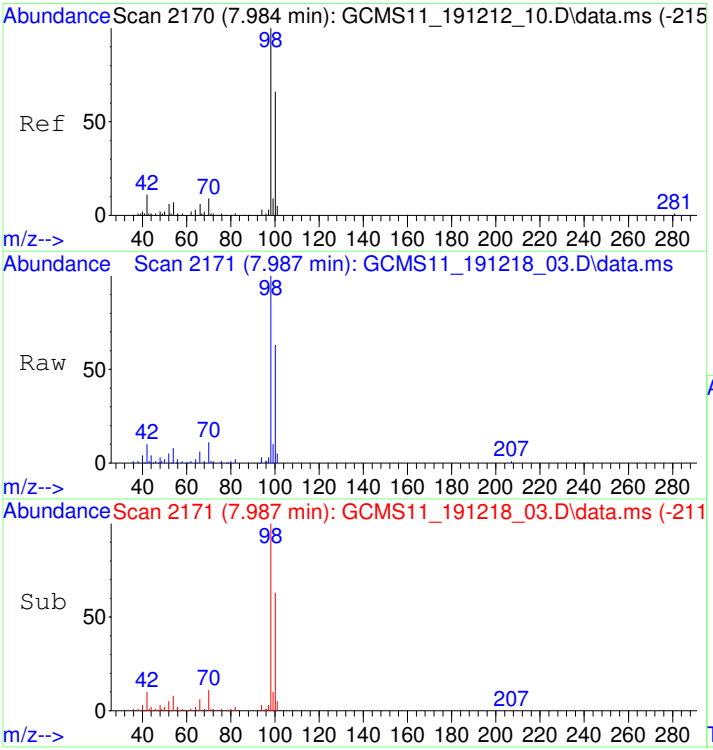


#26
1,2-DICHLOROETHANE-D4
Concen: 47.74 ng
RT: 5.85 min Scan# 1507
Delta R.T. 0.000 min
Lab File: GCMS11_191218_03.D
Acq: 18 Dec 2019 6:20 pm

Tgt Ion: 65 Resp: 16197

Ion	Ratio	Lower	Upper
65	100		
67	53.2	15.4	75.4
51	37.7	2.7	62.7

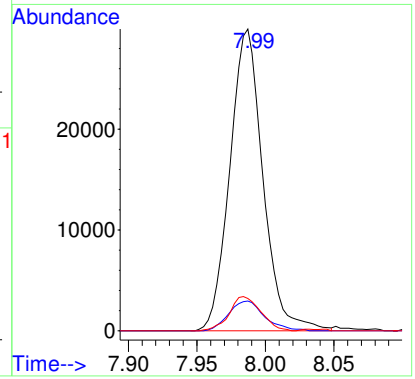


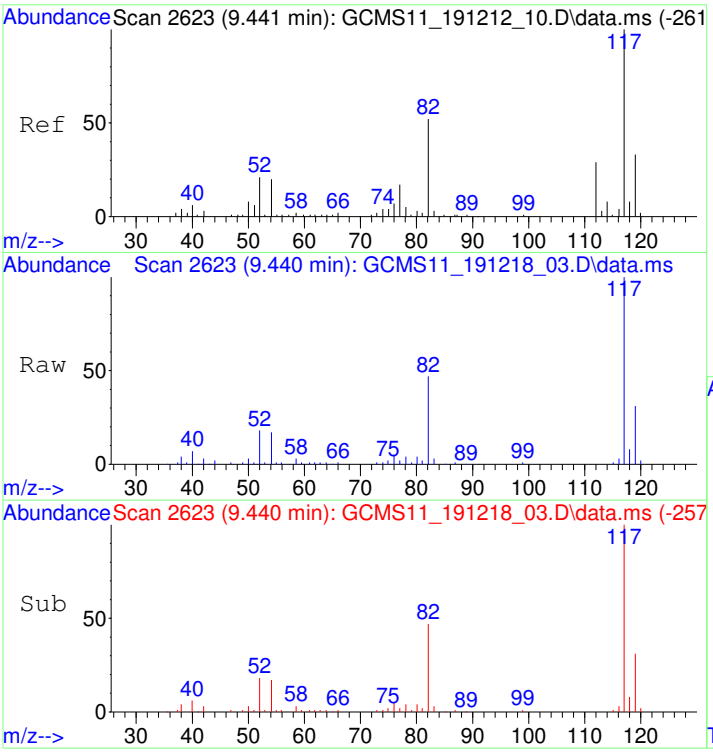


#37
TOLUENE-D8
Concen: 47.28 ng
RT: 7.99 min Scan# 2171
Delta R.T. 0.003 min
Lab File: GCMS11_191218_03.D
Acq: 18 Dec 2019 6:20 pm

Tgt Ion: 98 Resp: 50393

Ion	Ratio	Lower	Upper
98	100		
99	10.7	0.0	39.8
70	10.8	0.0	40.7

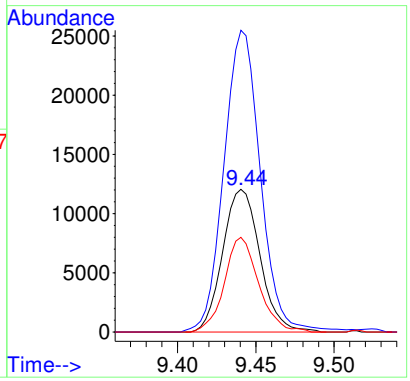


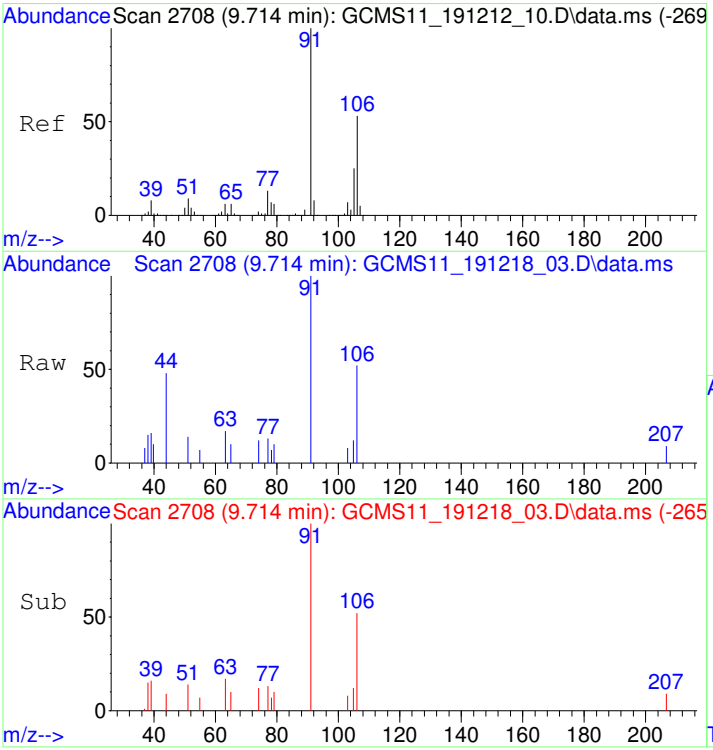


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191218_03.D
Acq: 18 Dec 2019 6:20 pm

Tgt Ion: 82 Resp: 20022

Ion	Ratio	Lower	Upper
82	100		
117	206.7	160.7	220.7
119	61.0	33.5	93.5

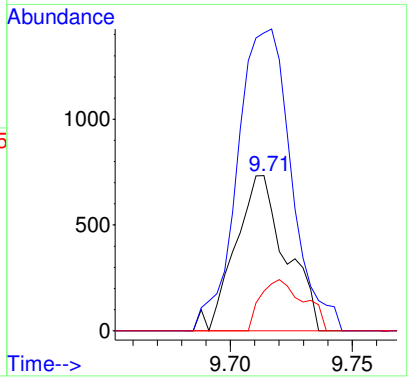


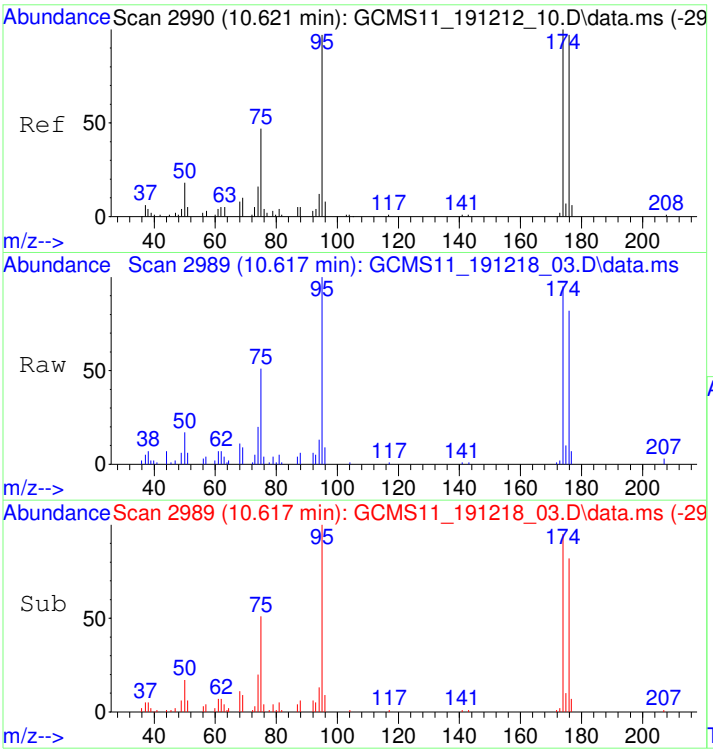


#50
m+p-Xylene
Concen: 1.88 ng
RT: 9.71 min Scan# 2708
Delta R.T. 0.000 min
Lab File: GCMS11_191218_03.D
Acq: 18 Dec 2019 6:20 pm

Tgt Ion:106 Resp: 1056

Ion	Ratio	Lower	Upper
106	100		
91	208.9	160.8	220.8
77	28.4	0.0	54.6

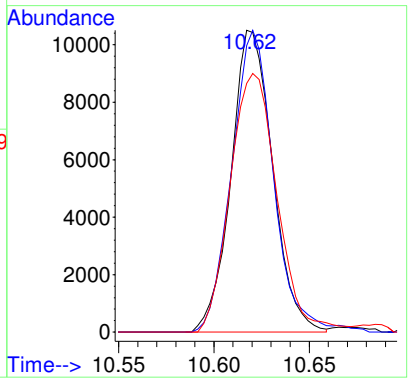


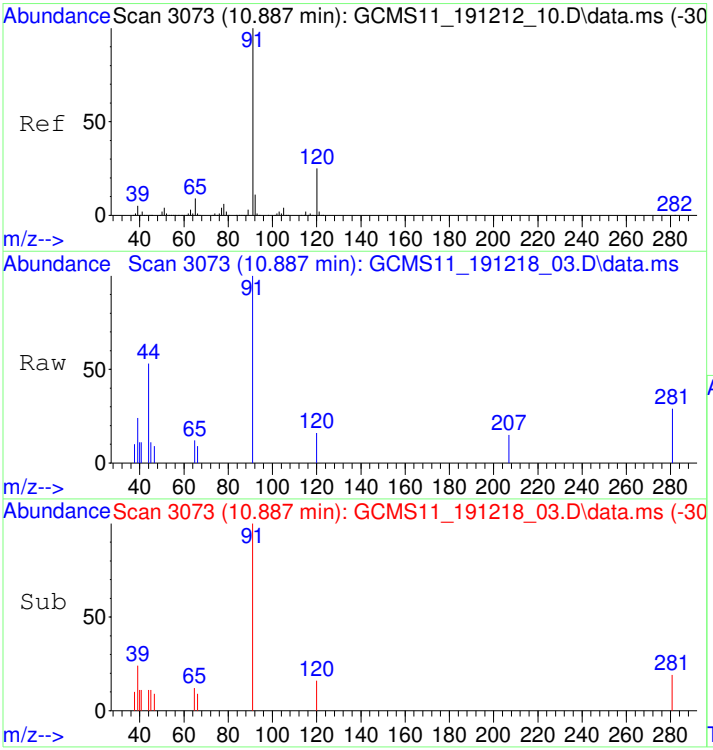


#55
4-BROMOFLUOROBENZENE
Concen: 43.95 ng
RT: 10.62 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191218_03.D
Acq: 18 Dec 2019 6:20 pm

Tgt Ion: 95 Resp: 15955

Ion	Ratio	Lower	Upper
95	100		
174	100.7	68.5	128.5
176	96.5	66.8	126.8

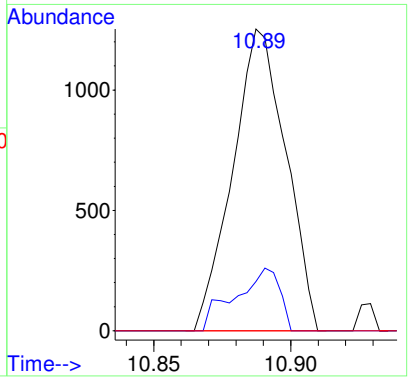


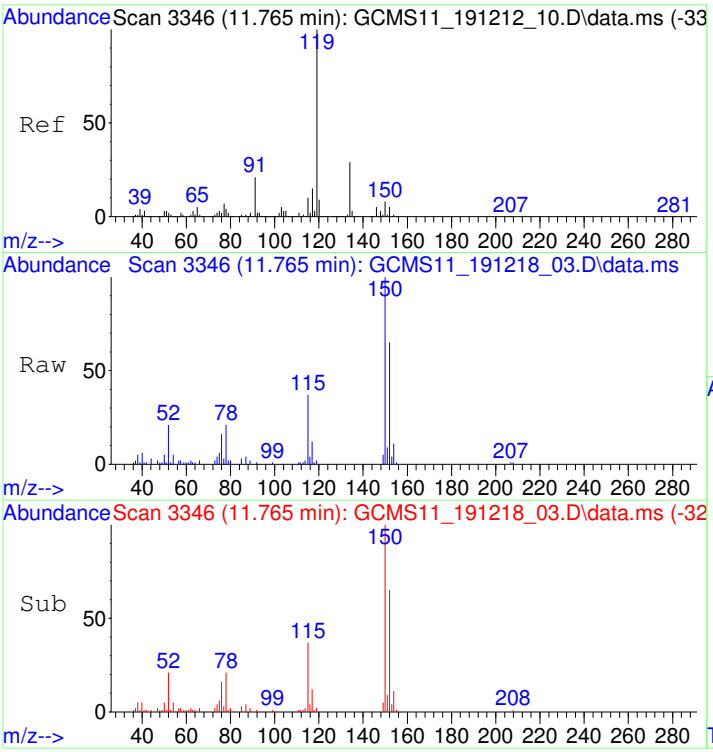


#58
n-Propylbenzene
Concen: 1.05 ng
RT: 10.89 min Scan# 3073
Delta R.T. 0.000 min
Lab File: GCMS11_191218_03.D
Acq: 18 Dec 2019 6:20 pm

Tgt Ion: 91 Resp: 1688

Ion	Ratio	Lower	Upper
91	100		
120	17.4	0.0	55.0
121	0.0	0.0	32.4

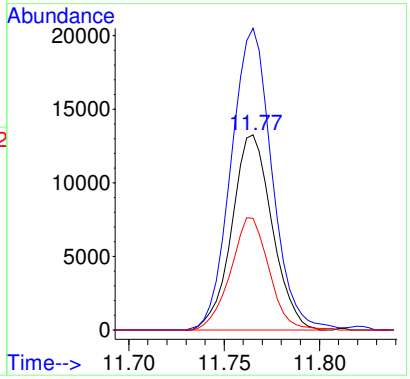


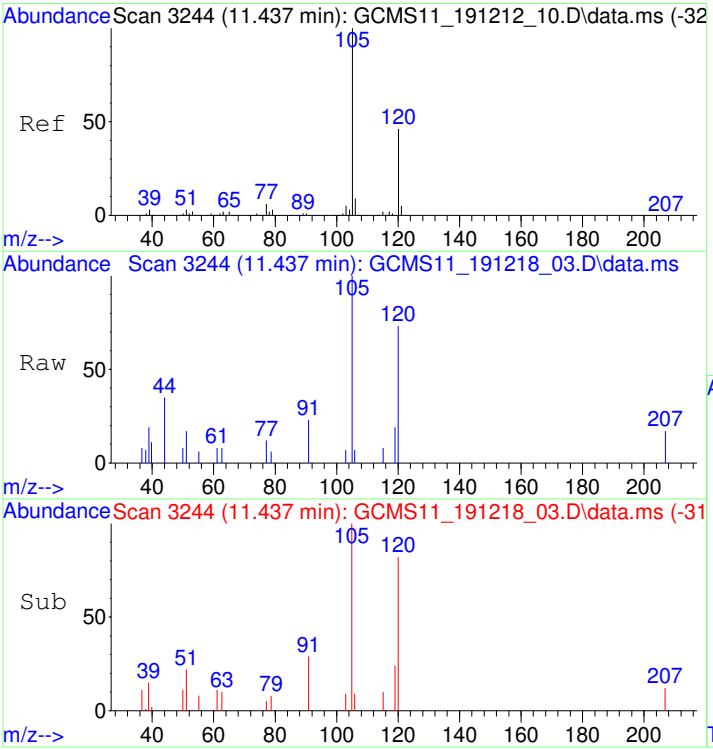


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191218_03.D
Acq: 18 Dec 2019 6:20 pm

Tgt Ion:152 Resp: 19505

Ion	Ratio	Lower	Upper
152	100		
150	156.8	162.5	222.5#
115	54.9	82.3	142.3#

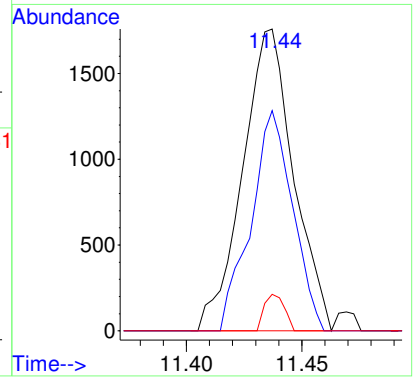


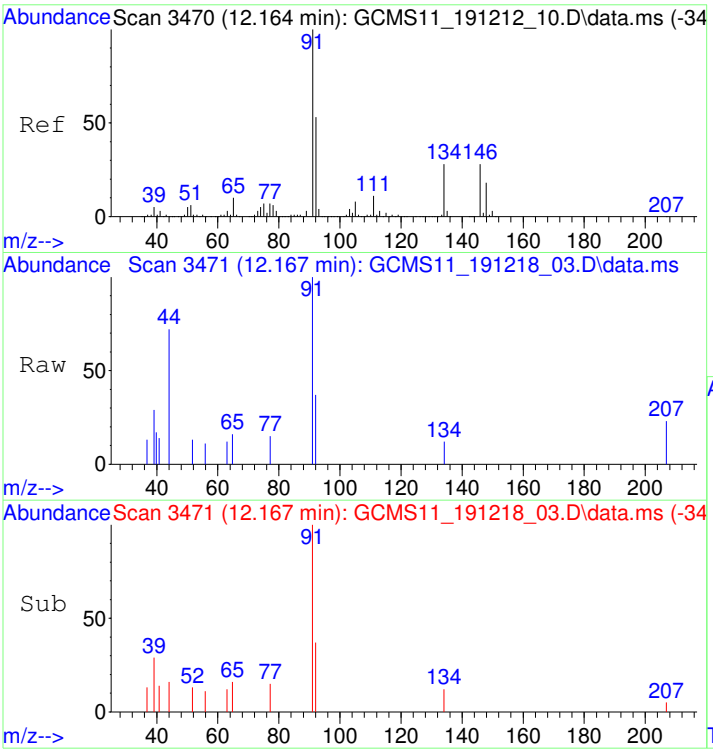


#65
1,2,4-Trimethylbenzene
Concen: 2.57 ng
RT: 11.44 min Scan# 3244
Delta R.T. 0.000 min
Lab File: GCMS11_191218_03.D
Acq: 18 Dec 2019 6:20 pm

Tgt Ion:105 Resp: 2700

Ion	Ratio	Lower	Upper
105	100		
120	59.7	18.6	78.6
77	4.8	0.0	41.4

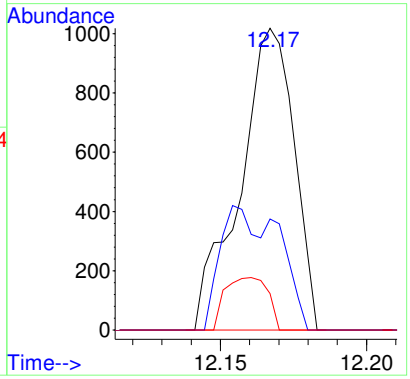


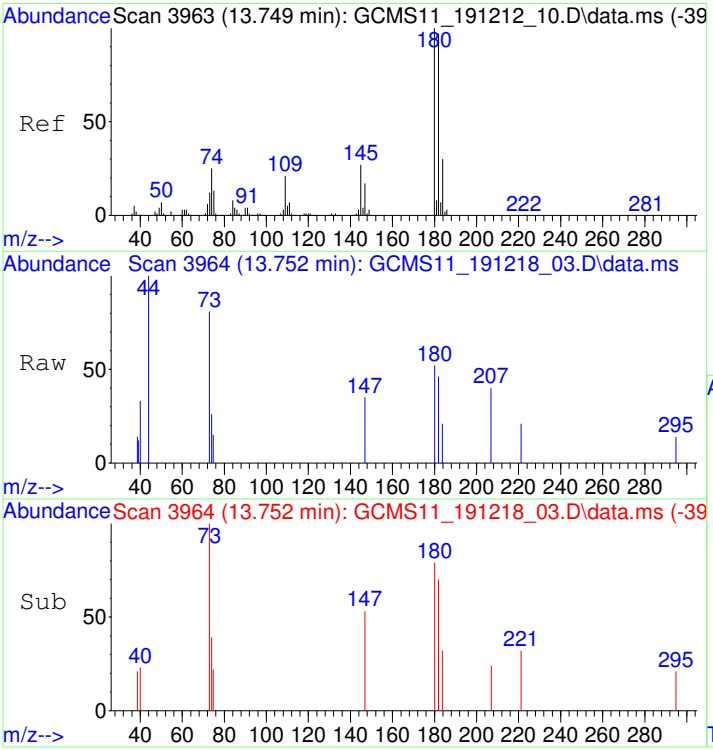


#71
n-Butylbenzene
Concen: 1.31 ng
RT: 12.17 min Scan# 3471
Delta R.T. 0.006 min
Lab File: GCMS11_191218_03.D
Acq: 18 Dec 2019 6:20 pm

Tgt Ion: 91 Resp: 1316

Ion	Ratio	Lower	Upper
91	100		
92	28.6	22.0	82.0
134	13.7	0.0	58.4

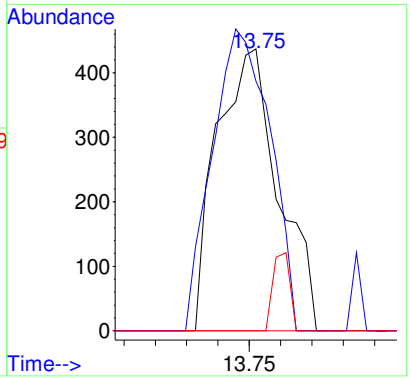




#73
1,2,4-Trichlorobenzene
Concen: 1.36 ng
RT: 13.75 min Scan# 3964
Delta R.T. 0.003 min
Lab File: GCMS11_191218_03.D
Acq: 18 Dec 2019 6:20 pm

Tgt Ion:180 Resp: 598

Ion	Ratio	Lower	Upper
180	100		
182	100.7	66.7	126.7
145	7.5	0.0	58.2



Evaluate Continuing Calibration Report

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_27.D
Acq On : 17 Dec 2019 1:55 am
Operator : ko
Sample : B19L021-BS1
Misc : LIMS 19L1101
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 17 14:40:29 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE	50.000	50.000	0.0	79	0.00
2	TM	Dichlorodifluoromethane	125.000	127.137	-1.7	73	0.00
3	TM	Chloromethane	125.000	117.881	5.7	71	0.00
4	M	Vinyl chloride	125.000	123.061	1.6	72	0.00
5	M	Bromomethane	125.000	94.776	24.2	59	0.00
6	M	Chloroethane	125.000	118.846	4.9	72	0.00
7	M	Trichlorofluoromethane	125.000	126.469	-1.2	76	0.00
8	M	Acrolein	625.000	0.000	100.0#	0	-2.32#
9	M	1,1-Dichloroethene	125.000	101.812	18.6	66	0.00
10	M	Acetone	625.000	0.000	100.0#	0	0.02
11	M	Carbon disulfide	125.000	68.119	45.5#	43	-0.02
12	M	Methylene chloride	125.000	109.777	12.2	74	0.00
13	M	Acrylonitrile	625.000	0.000	100.0#	0	-3.29#
14	M	trans-1,2-Dichloroethene	125.000	99.695	20.2	66	0.00
15	M	Methyl tert-butyl ether	125.000	0.000	100.0#	0	-3.34#
16	M	1,1-Dichloroethane	125.000	113.913	8.9	72	0.00
17	M	2,2-Dichloropropane	125.000	65.900	47.3#	41	0.00
18	M	cis-1,2-Dichloroethene	125.000	113.939	8.8	72	0.00
19	M	2-Butanone	625.000	0.000	100.0#	0	-4.86#
20	M	Bromochloromethane	125.000	113.416	9.3	72	0.00
21	M	Chloroform	125.000	117.370	6.1	73	0.00
22	S	DIBROMOFLUOROMETHANE	50.000	51.644	-3.3	81	0.00
23	M	1,1,1-Trichloroethane	125.000	107.074	14.3	68	0.00
24	M	Carbon tetrachloride	125.000	97.912	21.7	64	0.00
25	M	1,1-Dichloropropene	125.000	100.007	20.0	65	0.00
26	S	1,2-DICHLOROETHANE-D4	50.000	51.588	-3.2	79	0.00
27	M	Benzene	125.000	109.778	12.2	71	0.00
28	M	1,2-Dichloroethane	125.000	116.733	6.6	76	0.00
29	M	Trichloroethene	125.000	106.639	14.7	70	0.00
30	M	1,2-Dichloropropane	125.000	114.286	8.6	75	0.00
31	M	Dibromomethane	125.000	118.968	4.8	78	0.00
32	M	1,4-Dioxane	750.000	0.000	100.0#	0	-7.20#
33	M	Bromodichloromethane	125.000	117.499	6.0	75	0.00
34	M	2-Chloroethylvinyl ether	125.000	0.000	100.0#	0	-7.59#
35	M	cis-1,3-Dichloropropene	125.000	108.557	13.2	68	0.00
36	M	4-Methyl-2-pentanone	250.000	0.000	100.0#	0	-7.91#
37	S	TOLUENE-D8	50.000	49.194	1.6	78	0.00
38	M	Toluene	125.000	107.513	14.0	72	0.00
39	I	CHLOROBENZENE-D5	50.000	50.000	0.0	81	0.00
40	M	trans-1,3-Dichloropropene	125.000	100.571	19.5	67	0.00
41	M	1,1,2-Trichloroethane	125.000	116.454	6.8	80	0.00
42	M	Tetrachloroethene	125.000	100.993	19.2	66	0.00
43	M	1,3-Dichloropropane	125.000	122.002	2.4	82	0.00
44	M	2-Hexanone	250.000	0.000	100.0#	0	-8.76#
45	M	Dibromochloromethane	125.000	109.147	12.7	74	0.00
46	M	1,2-Dibromoethane (EDB)	125.000	113.982	8.8	77	0.00
47	M	Chlorobenzene	125.000	109.283	12.6	75	0.00
48	M	1,1,1,2-Tetrachloroethane	125.000	111.361	10.9	77	0.00
49	M	Ethylbenzene	125.000	105.796	15.4	72	0.00
50	M	m+p-Xylene	250.000	206.658	17.3	71	0.00
51	M	o-Xylene	125.000	104.676	16.3	74	0.00
52	M	Styrene	125.000	107.482	14.0	76	0.00
53	M	Bromoform	125.000	115.091	7.9	79	0.00

2,2-Dichloropropane did not meet %Dev criteria and has been flagged appropriately in the LIMS report.

All other analytes that exceed %Dev are not spiked in BS QC samples
-KO 12.23.19

Evaluate Continuing Calibration Report

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_27.D
Acq On : 17 Dec 2019 1:55 am
Operator : ko
Sample : B19L021-BS1
Misc : LIMS 19L1101
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 17 14:40:29 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
54	M	Isopropylbenzene	125.000	106.079	15.1	73	0.00
55	S	4-BROMOFLUOROBENZENE	50.000	48.754	2.5	81	0.00
56	M	Bromobenzene	125.000	115.270	7.8	77	0.00
57	M	1,2,3-Trichloropropane	125.000	126.700	-1.4	84	0.00
58	M	n-Propylbenzene	125.000	103.299	17.4	70	0.00
59	M	2-Chlorotoluene	125.000	108.989	12.8	74	0.00
60	M	1,3,5-Trimethylbenzene	125.000	101.976	18.4	71	0.00
61	M	4-Chlorotoluene	125.000	107.919	13.7	74	0.00
62	I	1,4-DICHLOROBENZENE-D4	50.000	50.000	0.0	82	0.00
63	M	1,1,2,2-Tetrachloroethane	125.000	129.375	-3.5	84	0.00
64	M	tert-Butylbenzene	125.000	109.361	12.5	68	0.00
65	M	1,2,4-Trimethylbenzene	125.000	107.700	13.8	72	0.00
66	M	sec-Butylbenzene	125.000	108.234	13.4	69	0.00
67	M	1,3-Dichlorobenzene	125.000	119.035	4.8	80	0.00
68	M	p-Isopropyltoluene	125.000	103.009	17.6	68	0.00
69	M	1,4-Dichlorobenzene	125.000	116.944	6.4	75	0.00
70	M	1,2-Dichlorobenzene	125.000	119.863	4.1	81	0.00
71	M	n-Butylbenzene	125.000	103.233	17.4	68	0.00
72	M	1,2-Dibromo-3-chloropropane	125.000	128.782	-3.0	88	0.00
73	M	1,2,4-Trichlorobenzene	125.000	112.142	10.3	73	0.00
74	M	Hexachlorobutadiene	125.000	98.266	21.4	60	0.00
75	M	Naphthalene	125.000	120.637	3.5	79	0.00
76	M	1,2,3-Trichlorobenzene	125.000	107.604	13.9	77	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_27.D
Acq On : 17 Dec 2019 1:55 am
Operator : ko
Sample : B19L021-BS1
Misc : LIMS 19L1101
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 17 14:40:29 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.25	96	56439	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	22169	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	24099	50.00	ng		0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.45	113	15308	51.64	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	18224	51.59	ng		0.00
37) TOLUENE-D8	7.98	98	54605	49.19	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	19597	48.75	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.12	85	33367	127.14	ng		99
3) Chloromethane	1.26	50	28263	117.88	ng		98
4) Vinyl chloride	1.34	62	37399	123.06	ng		97
5) Bromomethane	1.60	96	24036	94.78	ng		96
6) Chloroethane	1.69	64	26404	118.85	ng		97
7) Trichlorofluoromethane	1.92	101	49571	126.47	ng		97
9) 1,1-Dichloroethene	2.41	96	29865	101.81	ng		97
11) Carbon disulfide	2.61	76	70	68.12	ng	#	1
12) Methylene chloride	2.96	84	38938	109.78	ng		98
14) trans-1,2-Dichloroethene	3.31	96	32922	99.70	ng		99
16) 1,1-Dichloroethane	3.91	63	62120	113.91	ng		99
17) 2,2-Dichloropropane	4.78	77	29700	65.90	ng		96
18) cis-1,2-Dichloroethene	4.79	96	40609	113.94	ng		95
20) Bromochloromethane	5.11	128	21971	113.42	ng		94
21) Chloroform	5.25	83	63806	117.37	ng		98
23) 1,1,1-Trichloroethane	5.44	97	52952	107.07	ng		97
24) Carbon tetrachloride	5.64	117	43505	97.91	ng		97
25) 1,1-Dichloropropene	5.66	75	40324	100.01	ng		98
27) Benzene	5.90	78	150184	109.78	ng		92
28) 1,2-Dichloroethane	5.94	62	53673	116.73	ng		94
29) Trichloroethene	6.67	95	34428	106.64	ng		97
30) 1,2-Dichloropropane	6.91	63	34669	114.29	ng		99
31) Dibromomethane	7.04	93	29379	118.97	ng		95
33) Bromodichloromethane	7.23	83	50308	117.50	ng		99
35) cis-1,3-Dichloropropene	7.72	75	51504	108.56	ng		98
38) Toluene	8.05	92	82281	107.51	ng		99
40) trans-1,3-Dichloropropene	8.31	75	48611	100.57	ng		99
41) 1,1,2-Trichloroethane	8.48	83	32369	116.45	ng		98
42) Tetrachloroethene	8.61	164	28184	100.99	ng		95
43) 1,3-Dichloropropane	8.64	76	65683	122.00	ng		100
45) Dibromochloromethane	8.86	129	45033	109.15	ng		99
46) 1,2-Dibromoethane (EDB)	8.96	107	40169	113.98	ng		97
47) Chlorobenzene	9.47	112	104061	109.28	ng		99
48) 1,1,1,2-Tetrachloroethane	9.56	131	40838	111.36	ng		98
49) Ethylbenzene	9.59	106	51919	105.80	ng		99
50) m+p-Xylene	9.71	106	128307	206.66	ng		99
51) o-Xylene	10.10	106	62784	104.68	ng		100
52) Styrene	10.12	103	60977	107.48	ng		96
53) Bromoform	10.29	173	34380	115.09	ng		95
54) Isopropylbenzene	10.48	105	167976	106.08	ng		98
56) Bromobenzene	10.76	156	47925	115.27	ng		97
57) 1,2,3-Trichloropropane	10.81	75	46153	126.70	ng		99
58) n-Propylbenzene	10.89	91	183961	103.30	ng		100
59) 2-Chlorotoluene	10.96	91	113426	108.99	ng		99
60) 1,3,5-Trimethylbenzene	11.07	105	131522	101.98	ng		99
61) 4-Chlorotoluene	11.07	91	131027	107.92	ng		99

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_27.D
Acq On : 17 Dec 2019 1:55 am
Operator : ko
Sample : B19L021-BS1
Misc : LIMS 19L1101
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 17 14:40:29 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

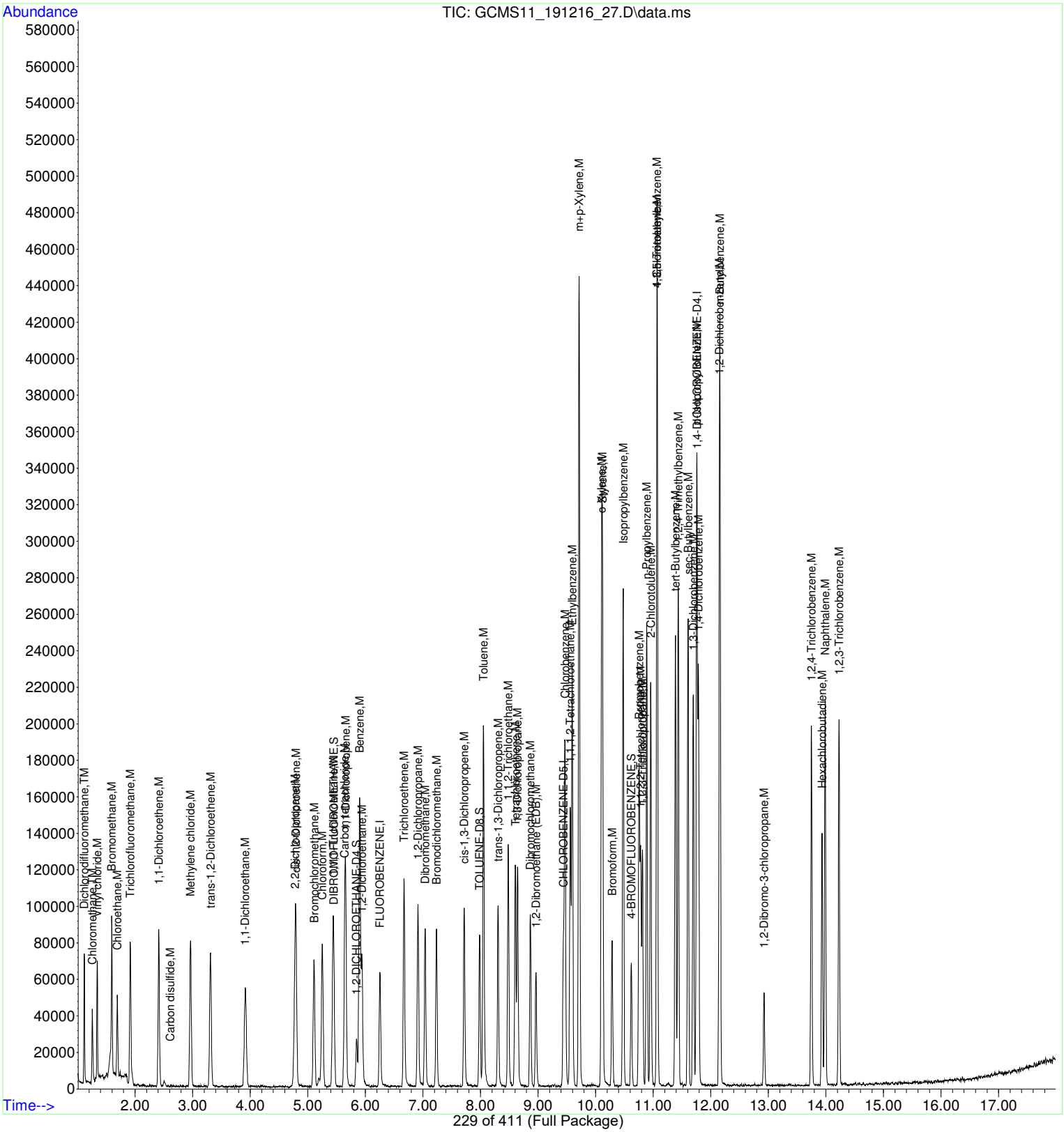
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
63)	1,1,2,2-Tetrachloroethane	10.78	83	55954	129.37	ng		97
64)	tert-Butylbenzene	11.39	119	116296	109.36	ng		99
65)	1,2,4-Trimethylbenzene	11.43	105	140067	107.70	ng		99
66)	sec-Butylbenzene	11.61	105	172727	108.23	ng		98
67)	1,3-Dichlorobenzene	11.70	146	88574	119.03	ng		96
68)	p-Isopropyltoluene	11.76	119	143933	103.01	ng		99
69)	1,4-Dichlorobenzene	11.79	146	88578	116.94	ng		99
70)	1,2-Dichlorobenzene	12.15	146	96435	119.86	ng		98
71)	n-Butylbenzene	12.16	91	128258	103.23	ng		100
72)	1,2-Dibromo-3-chloropr...	12.93	155	10639	128.78	ng		89
73)	1,2,4-Trichlorobenzene	13.75	180	60852	112.14	ng		98
74)	Hexachlorobutadiene	13.93	225	24846	98.27	ng	#	1
75)	Naphthalene	13.99	128	167636	120.64	ng		99
76)	1,2,3-Trichlorobenzene	14.23	180	60214	107.60	ng		98

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

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_27.D
Acq On : 17 Dec 2019 1:55 am
Operator : ko
Sample : B19L021-BS1
Misc : LIMS 19L1101
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 17 14:40:29 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration



229 of 411 (Full Package)

Evaluate Continuing Calibration Report

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_02.D
Acq On : 18 Dec 2019 5:51 pm
Operator : ko
Sample : B19L021-BS2
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 08:27:18 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE	50.000	50.000	0.0	76	0.00
2	TM	Dichlorodifluoromethane	125.000	109.090	12.7	61	0.00
3	TM	Chloromethane	125.000	125.060	-0.0	73	0.00
4	M	Vinyl chloride	125.000	126.084	-0.9	72	0.00
5	M	Bromomethane	125.000	87.733	29.8	53	0.00
6	M	Chloroethane	125.000	118.750	5.0	70	0.00
7	M	Trichlorofluoromethane	125.000	129.430	-3.5	76	0.00
8	M	Acrolein	625.000	0.000	100.0#	0	0.04
9	M	1,1-Dichloroethene	125.000	125.733	-0.6	79	0.00
10	M	Acetone	625.000	0.000	100.0#	0	0.03
11	M	Carbon disulfide	125.000	0.000	100.0#	0	-2.62#
12	M	Methylene chloride	125.000	115.503	7.6	75	0.00
13	M	Acrylonitrile	625.000	0.000	100.0#	0	0.06
14	M	trans-1,2-Dichloroethene	125.000	126.267	-1.0	81	0.00
15	M	Methyl tert-butyl ether	125.000	0.000	100.0#	0	-0.03
16	M	1,1-Dichloroethane	125.000	128.948	-3.2	79	0.00
17	M	2,2-Dichloropropane	125.000	133.233	-6.6	81	0.00
18	M	cis-1,2-Dichloroethene	125.000	126.071	-0.9	77	0.00
19	M	2-Butanone	625.000	0.000	100.0#	0	-0.07
20	M	Bromochloromethane	125.000	130.092	-4.1	80	0.00
21	M	Chloroform	125.000	128.415	-2.7	78	0.00
22	S	DIBROMOFLUOROMETHANE	50.000	54.528	-9.1	83	0.00
23	M	1,1,1-Trichloroethane	125.000	122.941	1.6	76	0.00
24	M	Carbon tetrachloride	125.000	116.675	6.7	73	0.00
25	M	1,1-Dichloropropene	125.000	120.418	3.7	76	0.00
26	S	1,2-DICHLOROETHANE-D4	50.000	51.644	-3.3	77	0.00
27	M	Benzene	125.000	123.084	1.5	77	0.00
28	M	1,2-Dichloroethane	125.000	119.071	4.7	75	0.00
29	M	Trichloroethene	125.000	123.532	1.2	79	0.00
30	M	1,2-Dichloropropane	125.000	120.407	3.7	76	0.00
31	M	Dibromomethane	125.000	122.204	2.2	78	0.00
32	M	1,4-Dioxane	750.000	0.000	100.0#	0	-0.16
33	M	Bromodichloromethane	125.000	127.489	-2.0	78	0.00
34	M	2-Chloroethylvinyl ether	125.000	0.000	100.0#	0	0.00
35	M	cis-1,3-Dichloropropene	125.000	125.177	-0.1	76	0.00
36	M	4-Methyl-2-pentanone	250.000	0.000	100.0#	0	0.04
37	S	TOLUENE-D8	50.000	50.679	-1.4	78	0.00
38	M	Toluene	125.000	118.785	5.0	77	0.00
39	I	CHLOROBENZENE-D5	50.000	50.000	0.0	78	0.00
40	M	trans-1,3-Dichloropropene	125.000	114.802	8.2	74	0.00
41	M	1,1,2-Trichloroethane	125.000	118.971	4.8	79	0.00
42	M	Tetrachloroethene	125.000	123.900	0.9	78	0.00
43	M	1,3-Dichloropropane	125.000	120.766	3.4	79	0.00
44	M	2-Hexanone	250.000	0.000	100.0#	0	-0.10
45	M	Dibromochloromethane	125.000	115.611	7.5	75	0.00
46	M	1,2-Dibromoethane (EDB)	125.000	111.964	10.4	73	0.00
47	M	Chlorobenzene	125.000	113.374	9.3	75	0.00
48	M	1,1,1,2-Tetrachloroethane	125.000	111.225	11.0	75	0.00
49	M	Ethylbenzene	125.000	112.874	9.7	74	0.00
50	M	m+p-Xylene	250.000	234.352	6.3	78	0.00
51	M	o-Xylene	125.000	113.198	9.4	77	0.00
52	M	Styrene	125.000	114.924	8.1	79	0.00
53	M	Bromoform	125.000	108.519	13.2	72	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_02.D
Acq On : 18 Dec 2019 5:51 pm
Operator : ko
Sample : B19L021-BS2
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 08:27:18 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
54	M	Isopropylbenzene	125.000	114.758	8.2	77	0.00
55	S	4-BROMOFLUOROBENZENE	50.000	47.997	4.0	78	0.00
56	M	Bromobenzene	125.000	118.343	5.3	77	0.00
57	M	1,2,3-Trichloropropane	125.000	110.161	11.9	71	0.00
58	M	n-Propylbenzene	125.000	121.871	2.5	80	0.00
59	M	2-Chlorotoluene	125.000	118.369	5.3	78	0.00
60	M	1,3,5-Trimethylbenzene	125.000	115.918	7.3	78	0.00
61	M	4-Chlorotoluene	125.000	118.003	5.6	79	0.00
62	I	1,4-DICHLOROBENZENE-D4	50.000	50.000	0.0	78	0.00
63	M	1,1,2,2-Tetrachloroethane	125.000	122.965	1.6	76	0.00
64	M	tert-Butylbenzene	125.000	127.278	-1.8	75	0.00
65	M	1,2,4-Trimethylbenzene	125.000	122.990	1.6	78	0.00
66	M	sec-Butylbenzene	125.000	129.674	-3.7	79	0.00
67	M	1,3-Dichlorobenzene	125.000	126.464	-1.2	81	0.00
68	M	p-Isopropyltoluene	125.000	123.513	1.2	77	0.00
69	M	1,4-Dichlorobenzene	125.000	122.918	1.7	75	0.00
70	M	1,2-Dichlorobenzene	125.000	123.339	1.3	79	0.00
71	M	n-Butylbenzene	125.000	133.752	-7.0	84	0.00
72	M	1,2-Dibromo-3-chloropropane	125.000	105.163	15.9	68	0.00
73	M	1,2,4-Trichlorobenzene	125.000	128.110	-2.5	80	0.00
74	M	Hexachlorobutadiene	125.000	124.548	0.4	72	0.00
75	M	Naphthalene	125.000	111.344	10.9	69	0.00
76	M	1,2,3-Trichlorobenzene	125.000	116.789	6.6	79	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_02.D
Acq On : 18 Dec 2019 5:51 pm
Operator : ko
Sample : B19L021-BS2
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 08:27:18 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.25	96	54707	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	21464	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	22954	50.00	ng		0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.45	113	15667	54.53	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	17684	51.64	ng		0.00
37) TOLUENE-D8	7.98	98	54527	50.68	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	18679	48.00	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.12	85	27752	109.09	ng		97
3) Chloromethane	1.26	50	29064	125.06	ng		99
4) Vinyl chloride	1.35	62	37142	126.08	ng		96
5) Bromomethane	1.60	96	21567	87.73	ng		98
6) Chloroethane	1.69	64	25573	118.75	ng		99
7) Trichlorofluoromethane	1.92	101	49175	129.43	ng		96
9) 1,1-Dichloroethene	2.42	96	35750	125.73	ng		92
12) Methylene chloride	2.97	84	39712	115.50	ng		96
14) trans-1,2-Dichloroethene	3.31	96	40417	126.27	ng		93
16) 1,1-Dichloroethane	3.92	63	68161	128.95	ng		99
17) 2,2-Dichloropropane	4.77	77	58203	133.23	ng		98
18) cis-1,2-Dichloroethene	4.79	96	43554	126.07	ng		93
20) Bromochloromethane	5.11	128	24428	130.09	ng		98
21) Chloroform	5.25	83	67668	128.41	ng		99
23) 1,1,1-Trichloroethane	5.44	97	58933	122.94	ng		99
24) Carbon tetrachloride	5.64	117	50251	116.67	ng		96
25) 1,1-Dichloropropene	5.66	75	47064	120.42	ng		97
27) Benzene	5.90	78	163221	123.08	ng		99
28) 1,2-Dichloroethane	5.94	62	53068	119.07	ng		97
29) Trichloroethene	6.67	95	38658	123.53	ng		95
30) 1,2-Dichloropropane	6.91	63	35405	120.41	ng		99
31) Dibromomethane	7.04	93	29252	122.20	ng		94
33) Bromodichloromethane	7.23	83	52910	127.49	ng		97
35) cis-1,3-Dichloropropene	7.72	75	57567	125.18	ng		97
38) Toluene	8.05	92	88118	118.79	ng		99
40) trans-1,3-Dichloropropene	8.30	75	53725	114.80	ng		98
41) 1,1,2-Trichloroethane	8.48	83	32017	118.97	ng		95
42) Tetrachloroethene	8.60	164	33477	123.90	ng		98
43) 1,3-Dichloropropane	8.64	76	62950	120.77	ng		99
45) Dibromochloromethane	8.87	129	46183	115.61	ng		100
46) 1,2-Dibromoethane (EDB)	8.96	107	38203	111.96	ng		94
47) Chlorobenzene	9.47	112	104523	113.37	ng		98
48) 1,1,1,2-Tetrachloroethane	9.56	131	39491	111.22	ng		98
49) Ethylbenzene	9.59	106	53631	112.87	ng		93
50) m+p-Xylene	9.71	106	140874	234.35	ng		100
51) o-Xylene	10.10	106	65736	113.20	ng		95
52) Styrene	10.12	103	63126	114.92	ng		96
53) Bromoform	10.29	173	31386	108.52	ng	#	96
54) Isopropylbenzene	10.48	105	175941	114.76	ng		97
56) Bromobenzene	10.76	156	47638	118.34	ng		99
57) 1,2,3-Trichloropropane	10.81	75	38852	110.16	ng		98
58) n-Propylbenzene	10.89	91	210134	121.87	ng		100
59) 2-Chlorotoluene	10.96	91	119270	118.37	ng		100
60) 1,3,5-Trimethylbenzene	11.07	105	144750	115.92	ng		97
61) 4-Chlorotoluene	11.07	91	138713	118.00	ng		100
63) 1,1,2,2-Tetrachloroethane	10.78	83	50655	122.96	ng		99

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_02.D
Acq On : 18 Dec 2019 5:51 pm
Operator : ko
Sample : B19L021-BS2
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 1 Sample Multiplier: 1

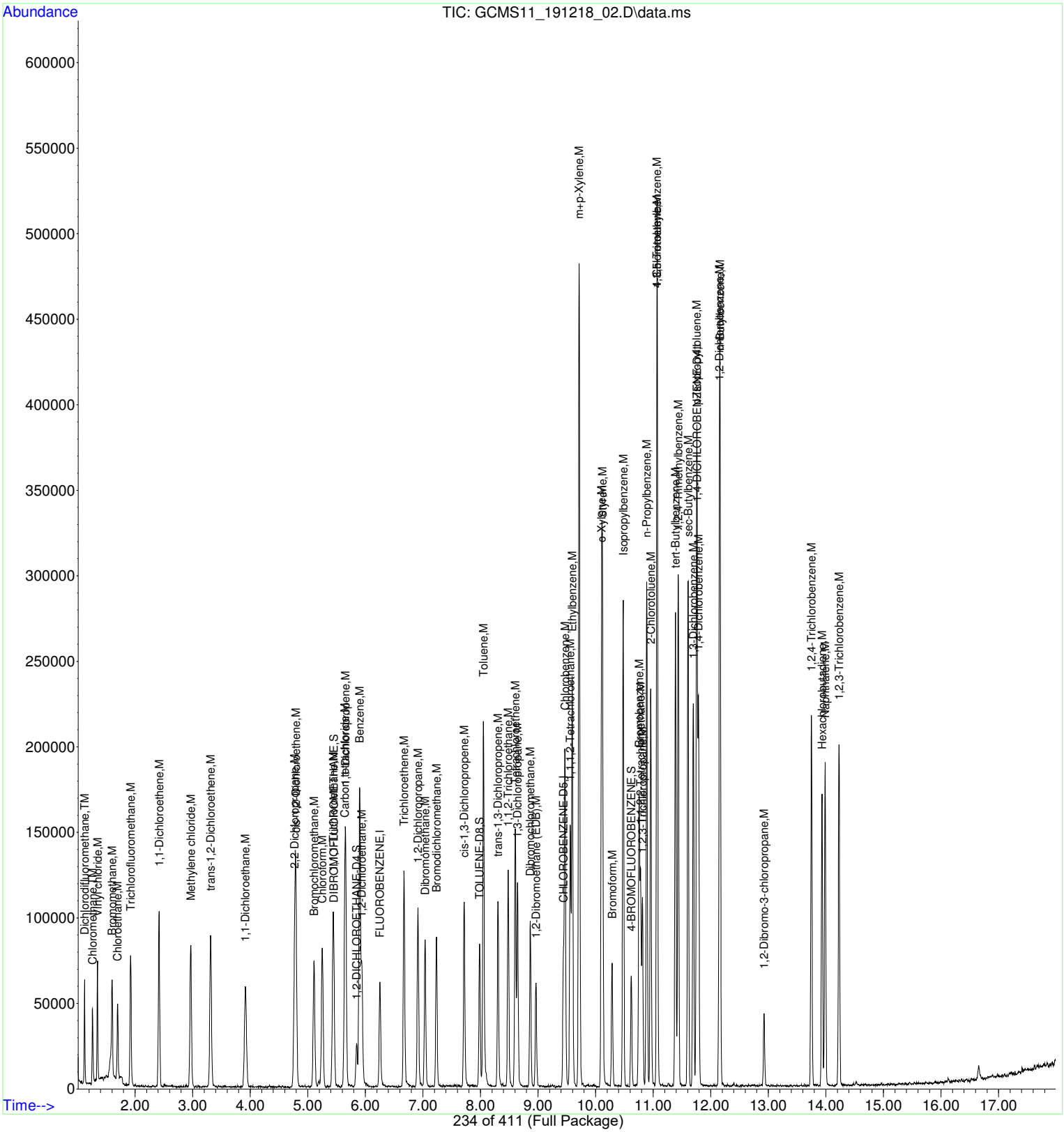
Quant Time: Dec 19 08:27:18 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

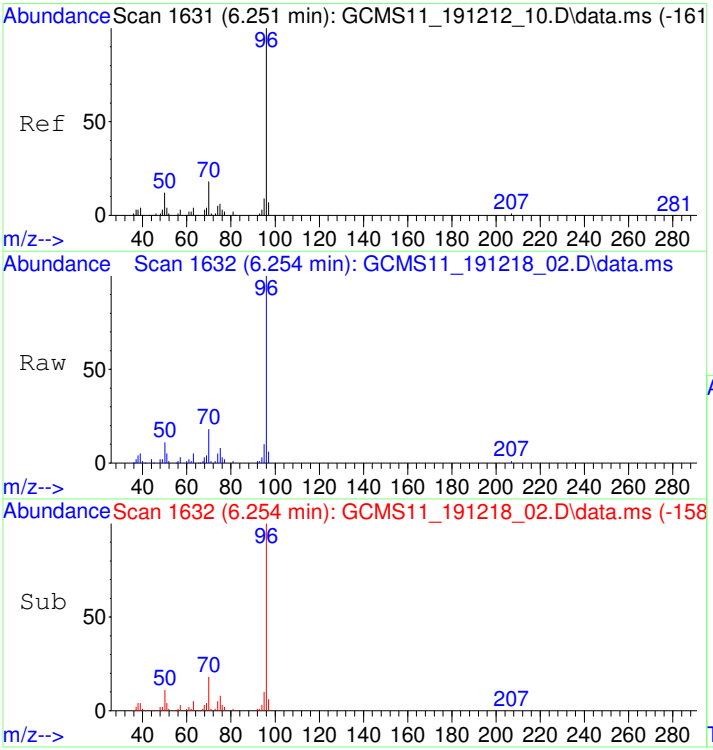
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
64) tert-Butylbenzene	11.39	119	128919	127.28	ng		99
65) 1,2,4-Trimethylbenzene	11.43	105	152353	122.99	ng		99
66) sec-Butylbenzene	11.61	105	197110	129.67	ng		98
67) 1,3-Dichlorobenzene	11.70	146	89631	126.46	ng		98
68) p-Isopropyltoluene	11.76	119	164382	123.51	ng		99
69) 1,4-Dichlorobenzene	11.79	146	88679	122.92	ng		98
70) 1,2-Dichlorobenzene	12.15	146	94517	123.34	ng		98
71) n-Butylbenzene	12.16	91	158279	133.75	ng		97
72) 1,2-Dibromo-3-chloropr...	12.93	155	8275	105.16	ng		97
73) 1,2,4-Trichlorobenzene	13.75	180	66214	128.11	ng		98
74) Hexachlorobutadiene	13.93	225	29995	124.55	ng	#	1
75) Naphthalene	13.99	128	147371	111.34	ng		98
76) 1,2,3-Trichlorobenzene	14.23	180	62093	116.79	ng		97

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

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_02.D
Acq On : 18 Dec 2019 5:51 pm
Operator : ko
Sample : B19L021-BS2
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 19 08:27:18 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

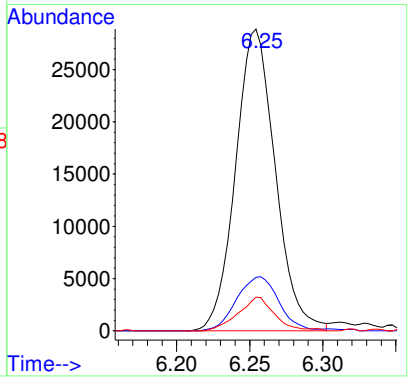


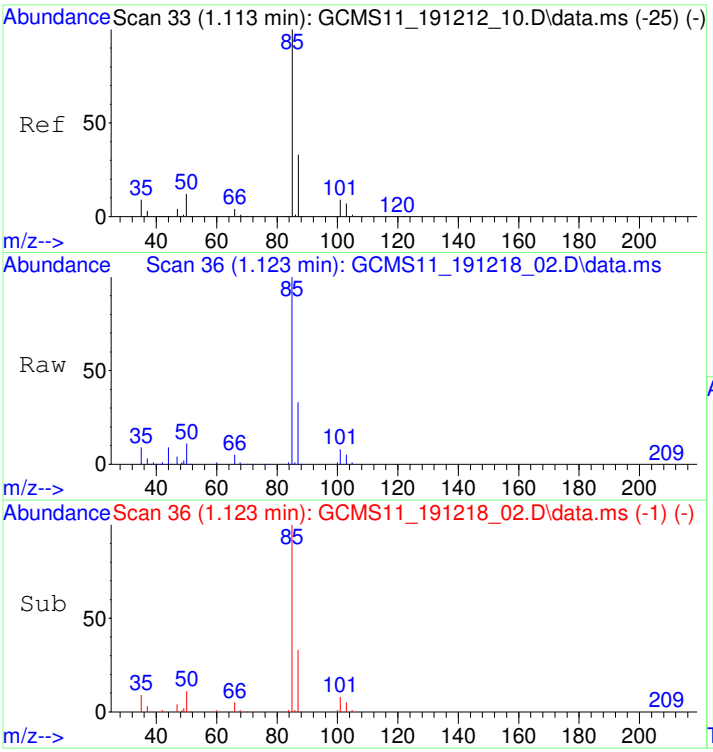


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 96 Resp: 54707

Ion	Ratio	Lower	Upper
96	100		
70	18.9	0.0	48.3
50	10.2	0.0	39.5

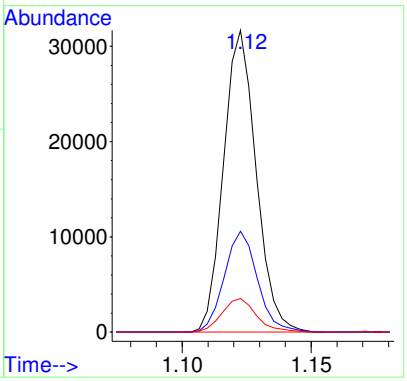


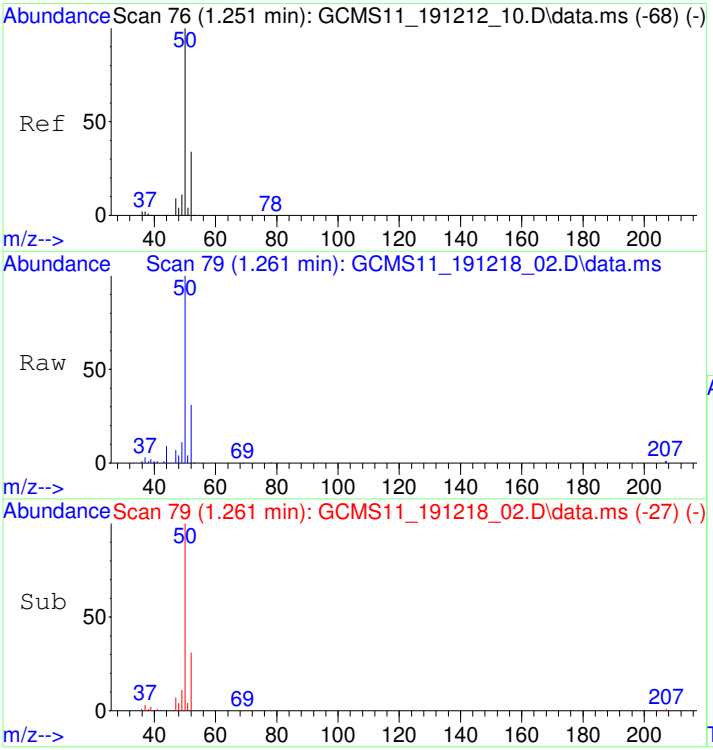


#2
Dichlorodifluoromethane
Concen: 109.09 ng
RT: 1.12 min Scan# 36
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 85 Resp: 27752

Ion	Ratio	Lower	Upper
85	100		
87	34.0	1.8	61.8
50	11.9	0.0	42.2

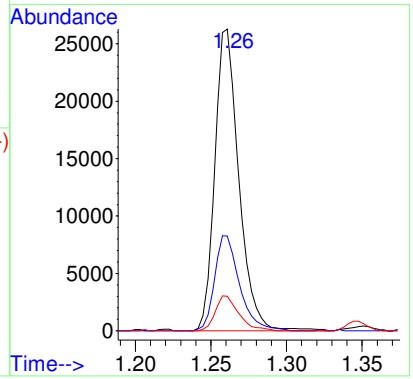


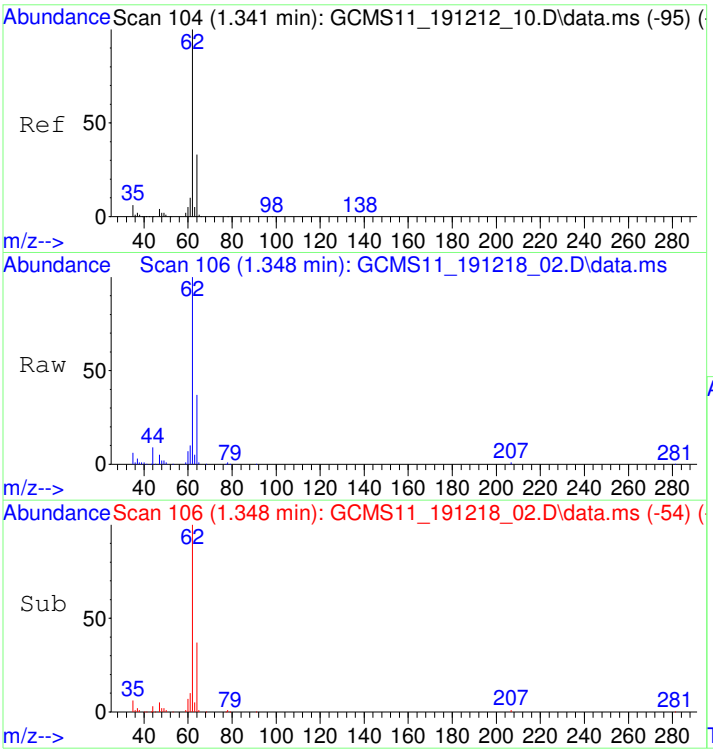


#3
Chloromethane
Concen: 125.06 ng
RT: 1.26 min Scan# 79
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 50 Resp: 29064

Ion	Ratio	Lower	Upper
50	100		
52	32.6	2.0	62.0
49	11.4	0.0	40.7

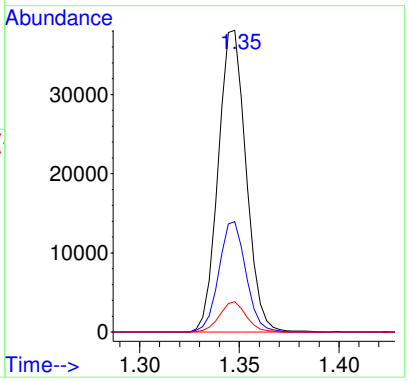


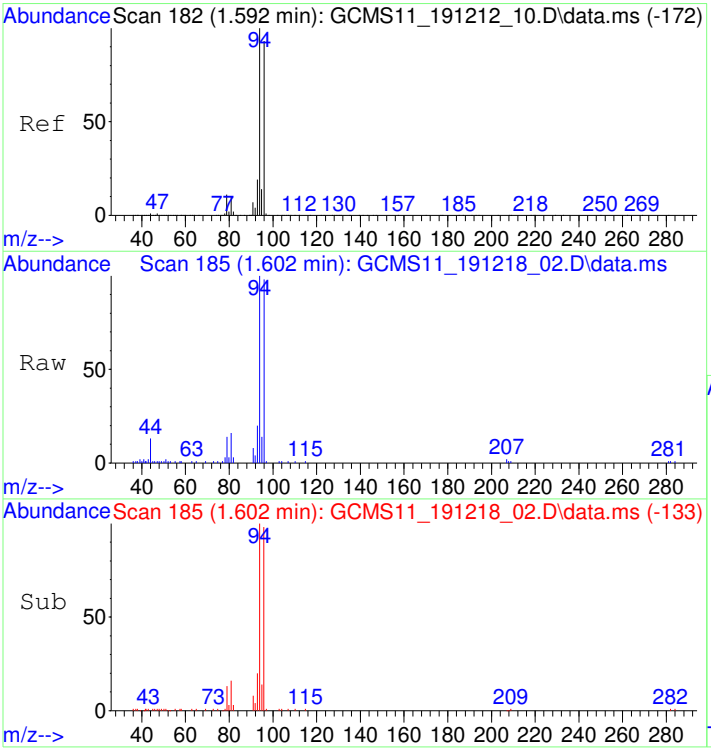


#4
Vinyl chloride
Concen: 126.08 ng
RT: 1.35 min Scan# 106
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 62 Resp: 37142

Ion	Ratio	Lower	Upper
62	100		
64	35.5	2.7	62.7
61	9.7	0.0	39.4

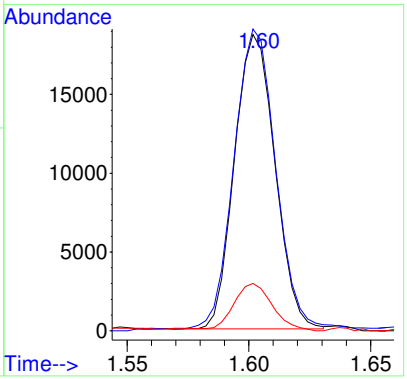


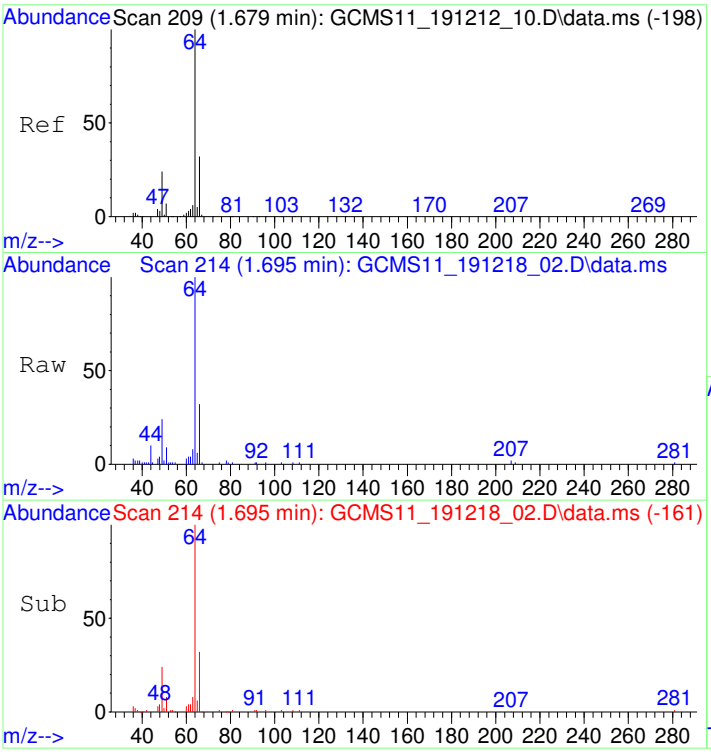


#5
Bromomethane
Concen: 87.73 ng
RT: 1.60 min Scan# 185
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 96 Resp: 21567

Ion	Ratio	Lower	Upper
96	100		
94	105.7	74.8	134.8
81	15.5	0.0	42.0

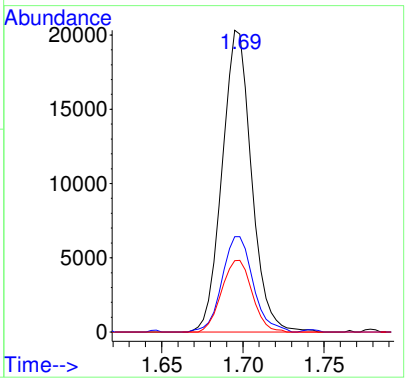


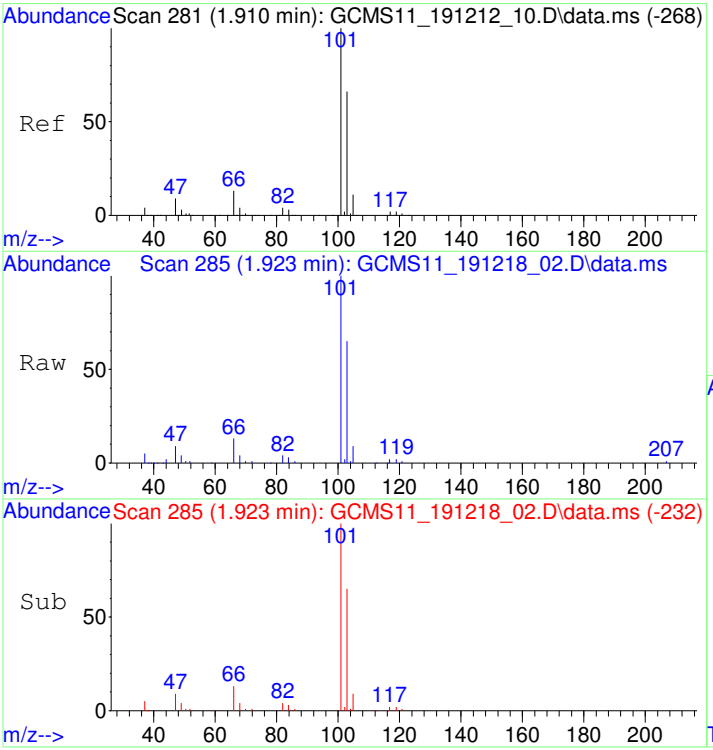


#6
Chloroethane
Concen: 118.75 ng
RT: 1.69 min Scan# 214
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 64 Resp: 25573

Ion	Ratio	Lower	Upper
64	100		
66	33.4	3.3	63.3
49	24.6	0.0	53.3

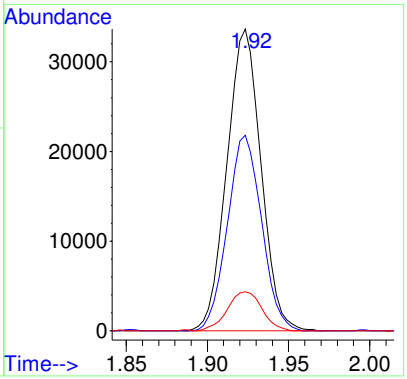


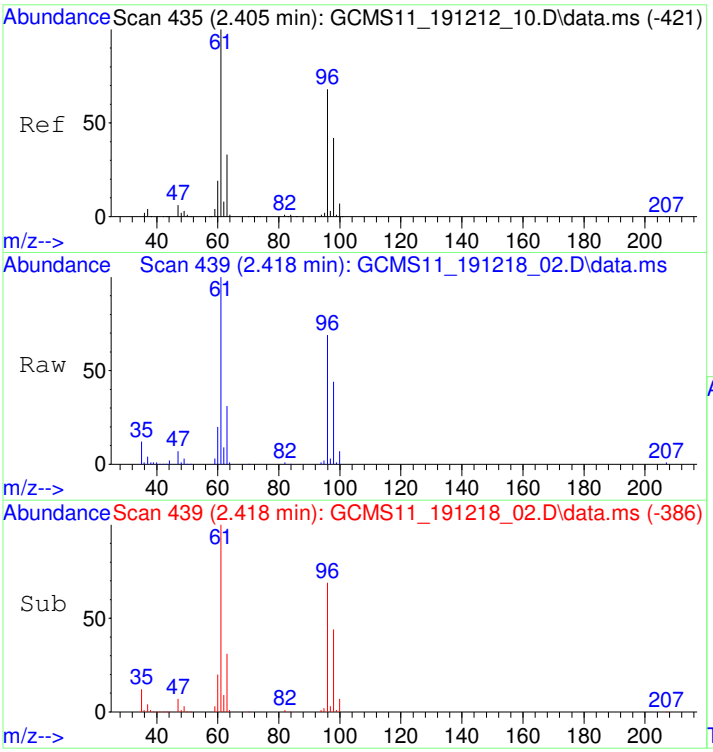


#7
Trichlorofluoromethane
Concen: 129.43 ng
RT: 1.92 min Scan# 285
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:101 Resp: 49175

Ion	Ratio	Lower	Upper
101	100		
103	64.8	38.4	98.4
66	13.2	0.0	43.0

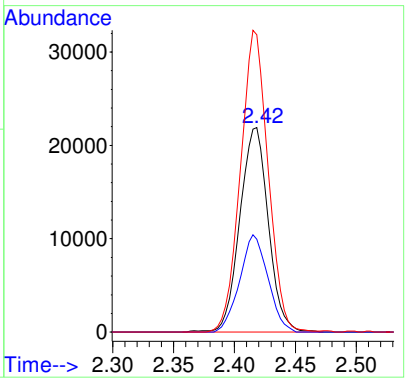


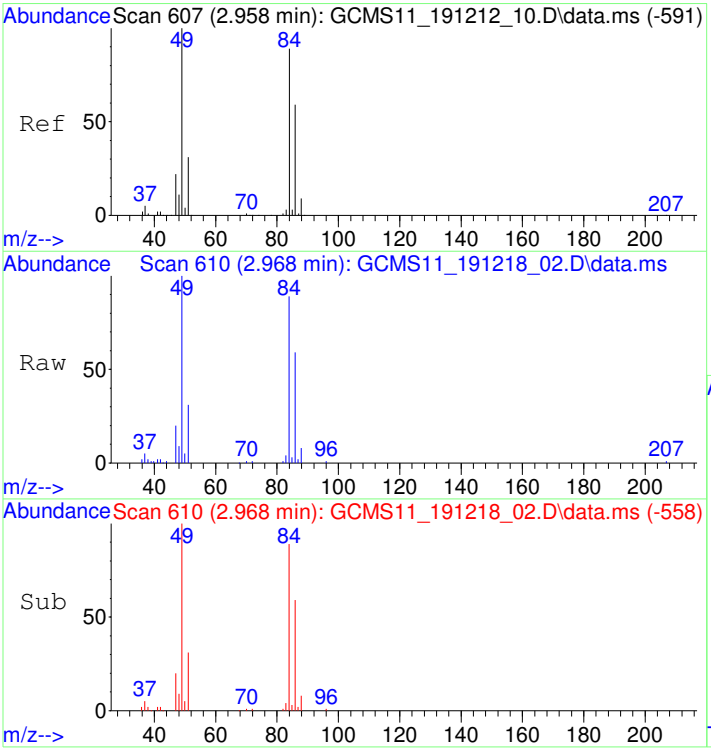


#9
1,1-Dichloroethene
Concen: 125.73 ng
RT: 2.42 min Scan# 439
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 96 Resp: 35750

Ion	Ratio	Lower	Upper
96	100		
63	47.1	20.7	80.7
61	142.8	123.9	183.9

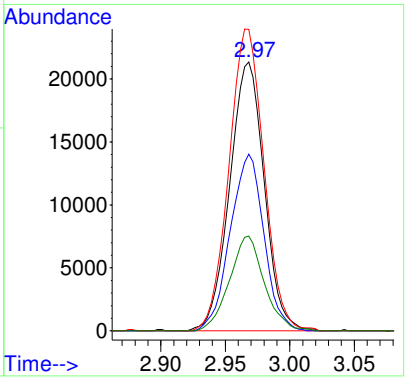


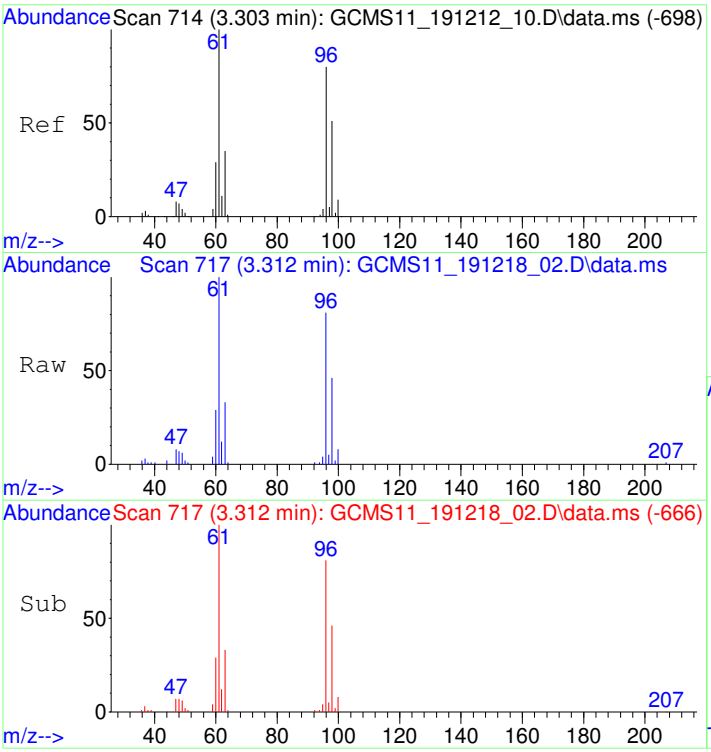


#12
Methylene chloride
Concen: 115.50 ng
RT: 2.97 min Scan# 610
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 84 Resp: 39712

Ion	Ratio	Lower	Upper
84	100		
86	64.1	35.2	95.2
49	113.8	78.3	138.3
51	35.5	4.0	64.0

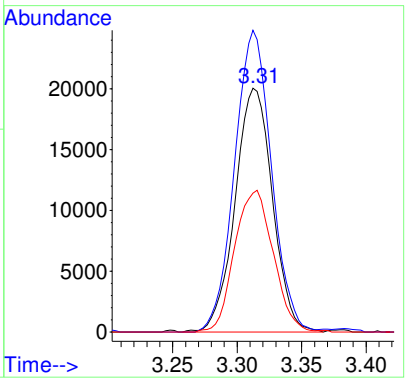


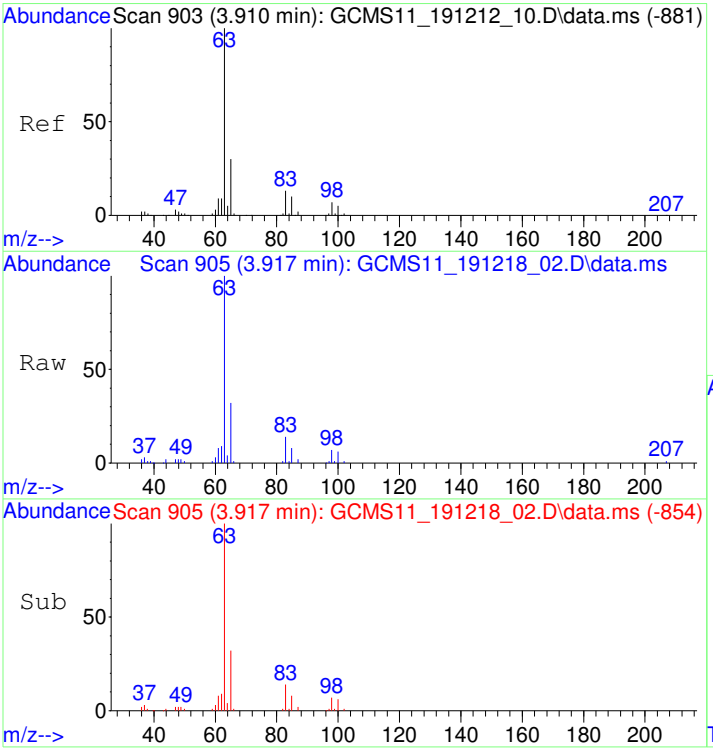


#14
trans-1,2-Dichloroethene
Concen: 126.27 ng
RT: 3.31 min Scan# 717
Delta R.T. -0.006 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 96 Resp: 40417

Ion	Ratio	Lower	Upper
96	100		
61	121.8	99.6	159.6
98	59.8	35.3	95.3

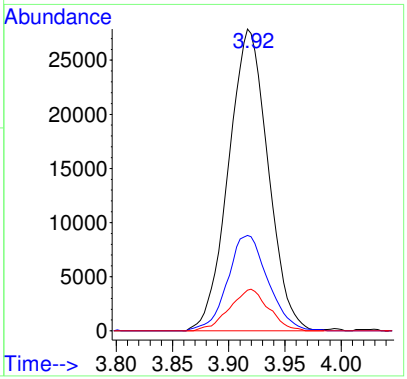


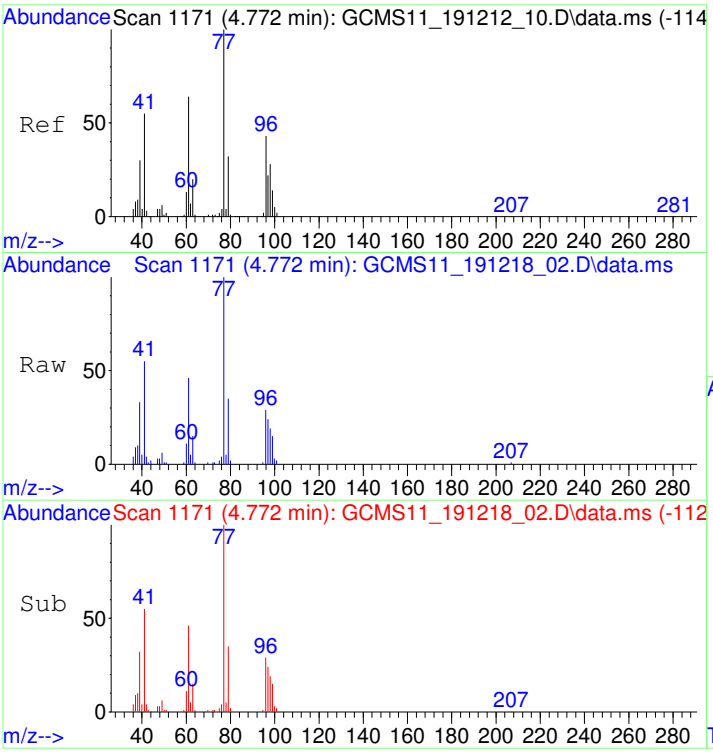


#16
1,1-Dichloroethane
Concen: 128.95 ng
RT: 3.92 min Scan# 905
Delta R.T. -0.006 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 63 Resp: 68161

Ion	Ratio	Lower	Upper
63	100		
65	32.4	2.8	62.8
83	13.7	0.0	44.3

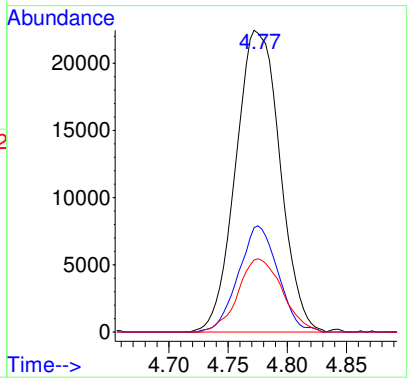


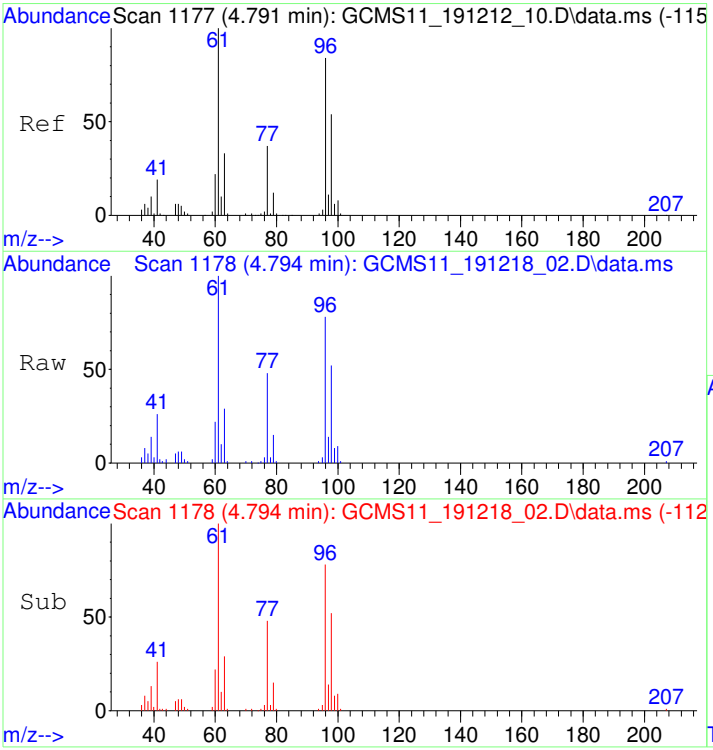


#17
2,2-Dichloropropane
Concen: 133.23 ng
RT: 4.77 min Scan# 1171
Delta R.T. -0.009 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 77 Resp: 58203

Ion	Ratio	Lower	Upper
77	100		
79	31.6	3.0	63.0
97	24.4	0.0	53.2

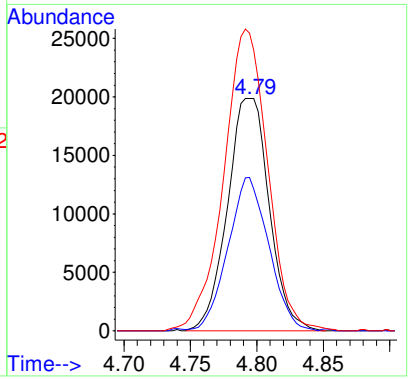


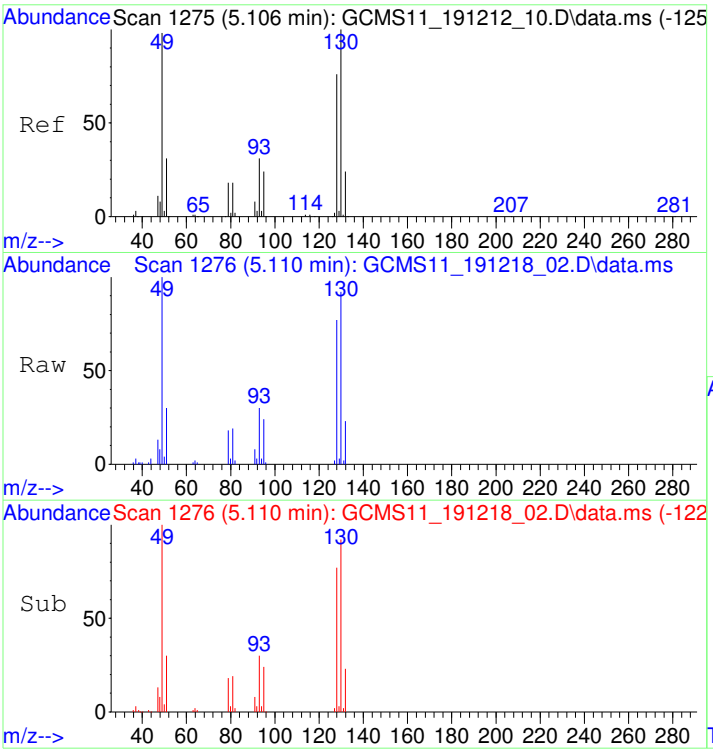


#18
cis-1,2-Dichloroethene
Concen: 126.07 ng
RT: 4.79 min Scan# 1178
Delta R.T. -0.006 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 96 Resp: 43554

Ion	Ratio	Lower	Upper
96	100		
98	64.4	30.6	90.6
61	136.6	96.6	156.6

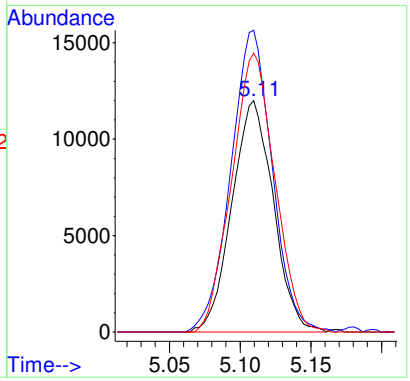


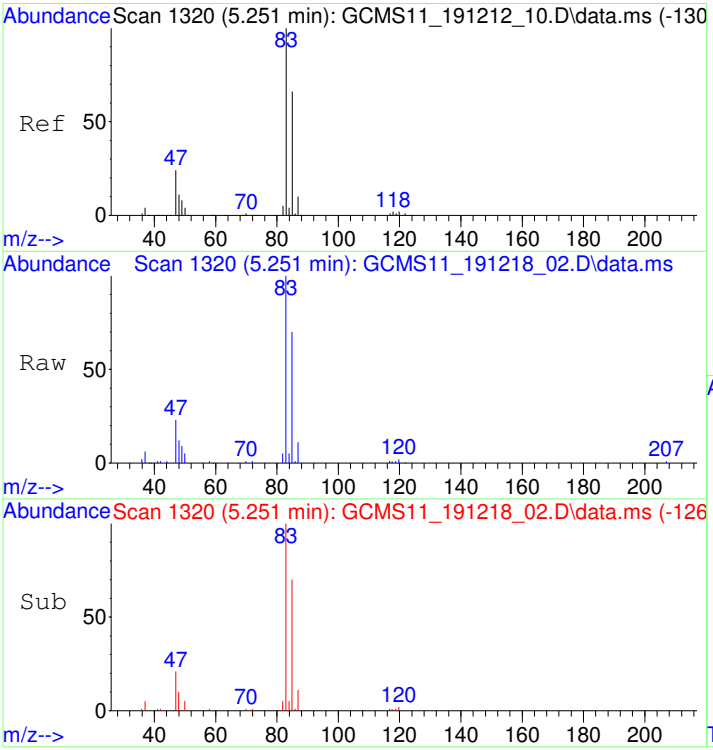


#20
Bromochloromethane
Concen: 130.09 ng
RT: 5.11 min Scan# 1276
Delta R.T. -0.006 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:128 Resp: 24428

Ion	Ratio	Lower	Upper
128	100		
49	130.5	99.5	159.5
130	125.9	99.8	159.8

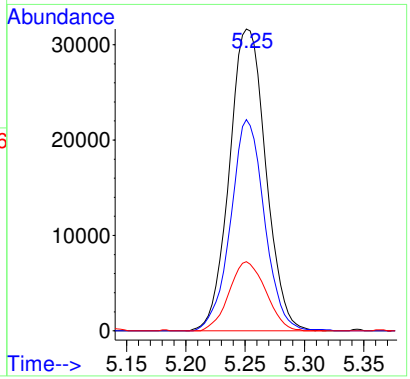


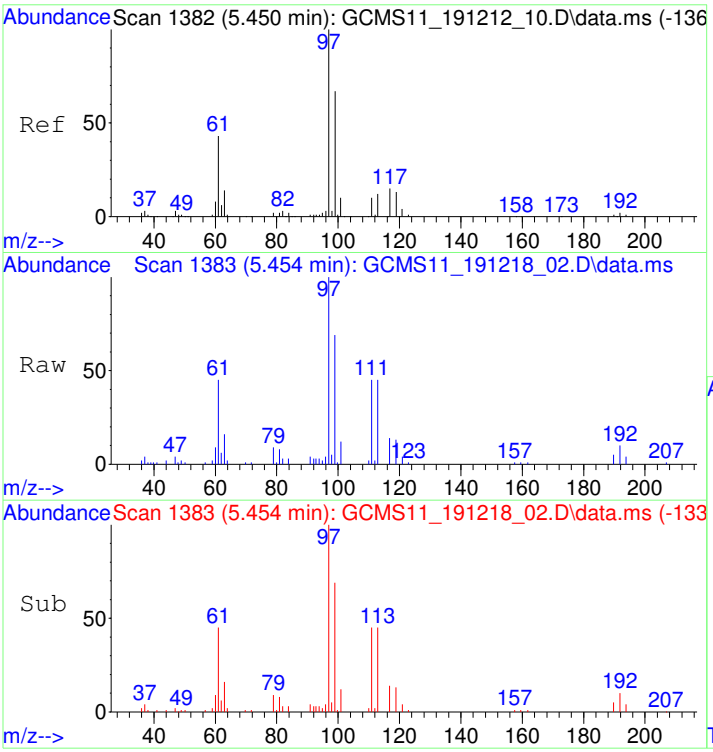


#21
Chloroform
Concen: 128.41 ng
RT: 5.25 min Scan# 1320
Delta R.T. -0.006 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 83 Resp: 67668

Ion	Ratio	Lower	Upper
83	100		
85	64.9	34.2	94.2
47	23.1	0.0	53.2

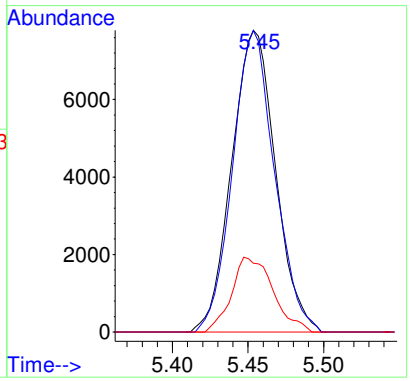


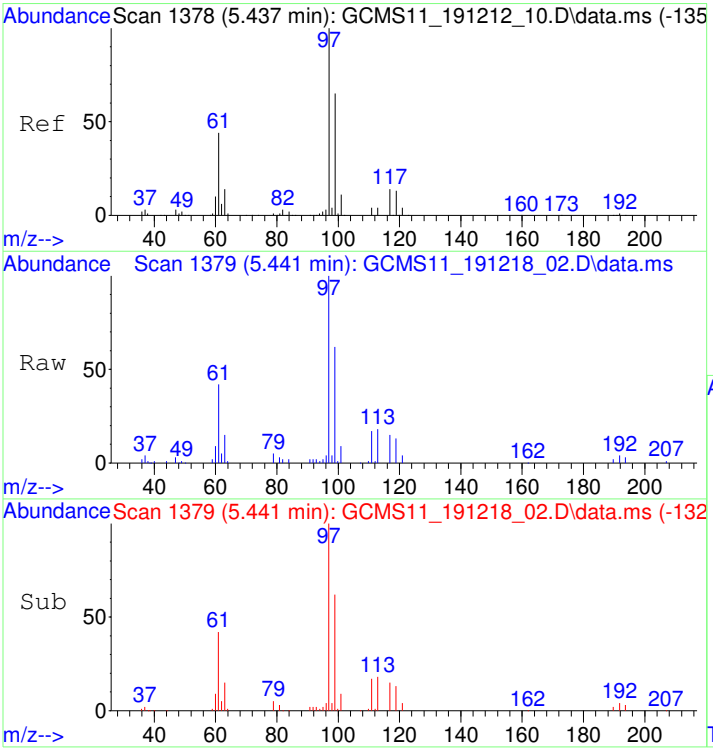


#22
DIBROMOFLUOROMETHANE
Concen: 54.53 ng
RT: 5.45 min Scan# 1383
Delta R.T. -0.006 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:113 Resp: 15667

Ion	Ratio	Lower	Upper
113	100		
111	96.0	75.2	135.2
192	23.5	0.0	52.1

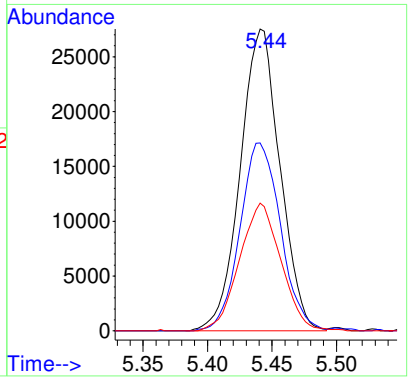


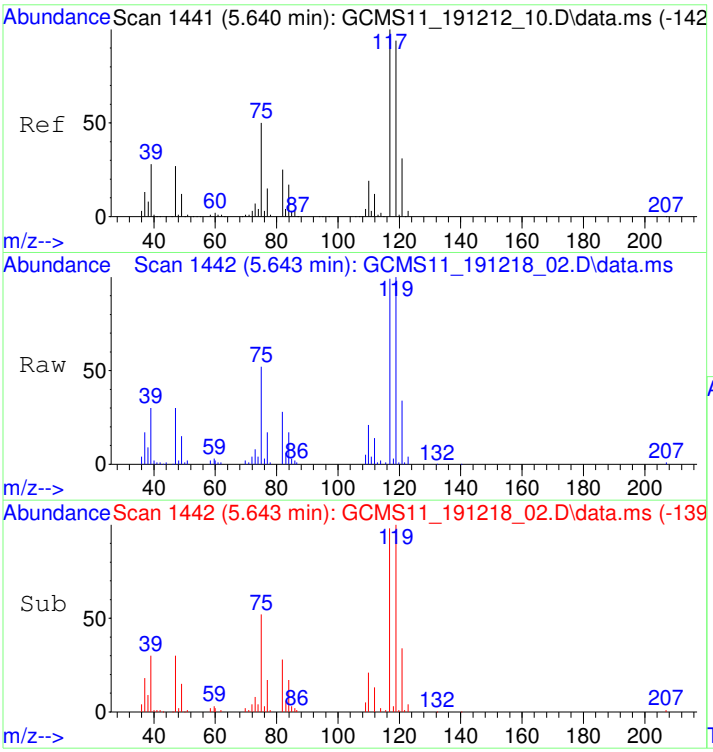


#23
1,1,1-Trichloroethane
Concen: 122.94 ng
RT: 5.44 min Scan# 1379
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 97 Resp: 58933

Ion	Ratio	Lower	Upper
97	100		
99	63.6	32.7	92.7
61	44.1	13.1	73.1

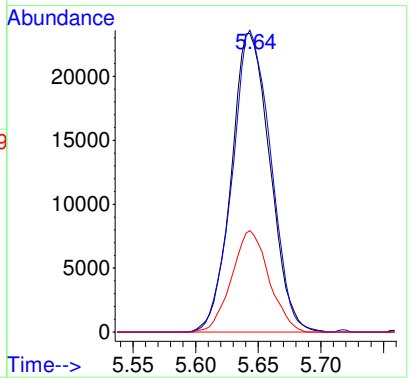


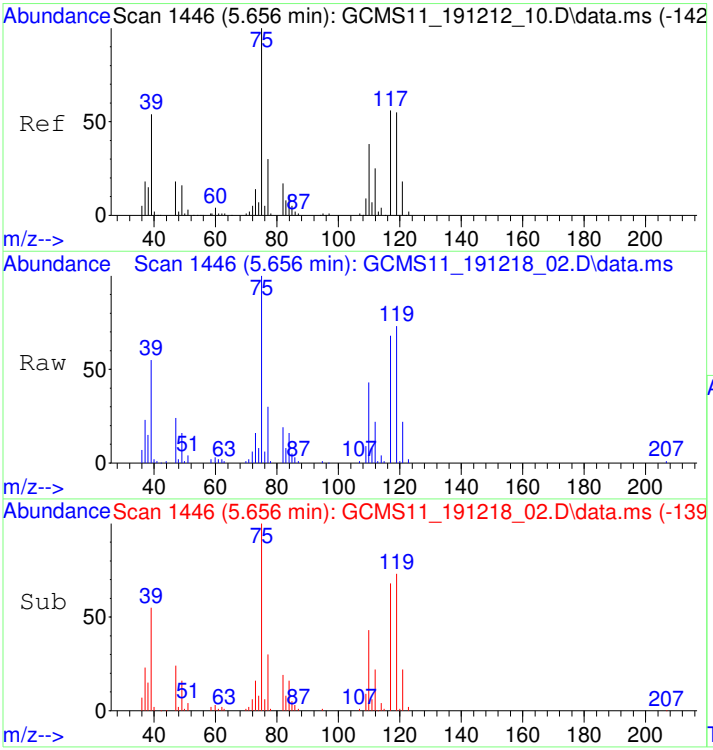


#24
Carbon tetrachloride
Concen: 116.67 ng
RT: 5.64 min Scan# 1442
Delta R.T. -0.006 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:117 Resp: 50251

Ion	Ratio	Lower	Upper
117	100		
119	100.5	66.6	126.6
121	32.8	0.0	59.5

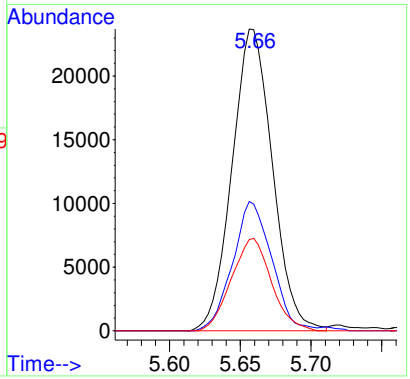


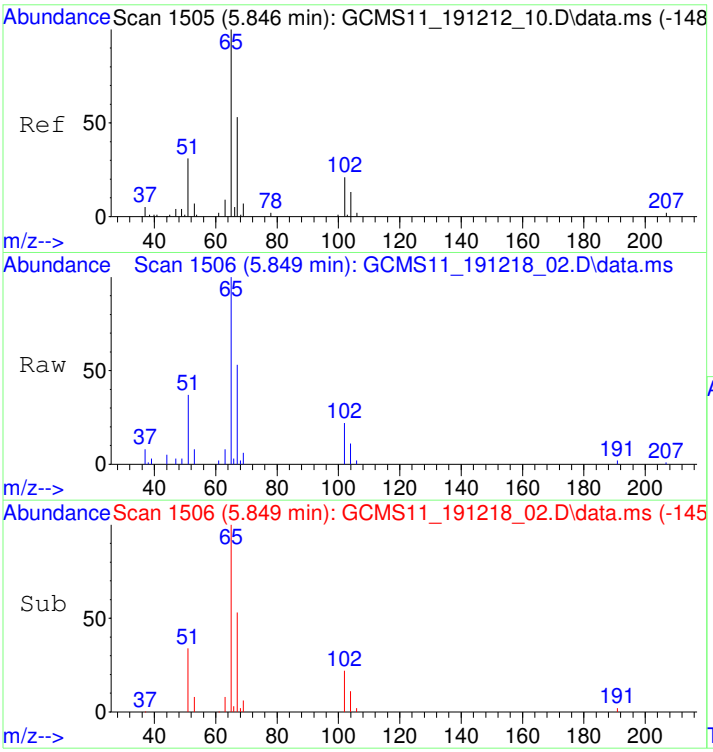


#25
1,1-Dichloropropene
Concen: 120.42 ng
RT: 5.66 min Scan# 1446
Delta R.T. -0.006 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 75 Resp: 47064

Ion	Ratio	Lower	Upper
75	100		
110	41.4	8.8	68.8
77	30.3	1.1	61.1

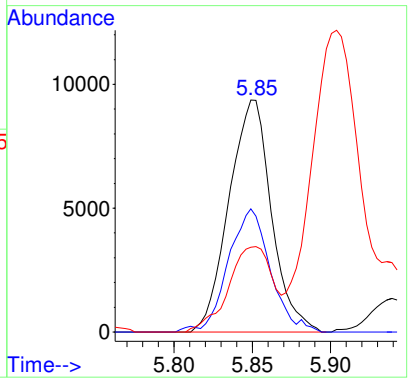


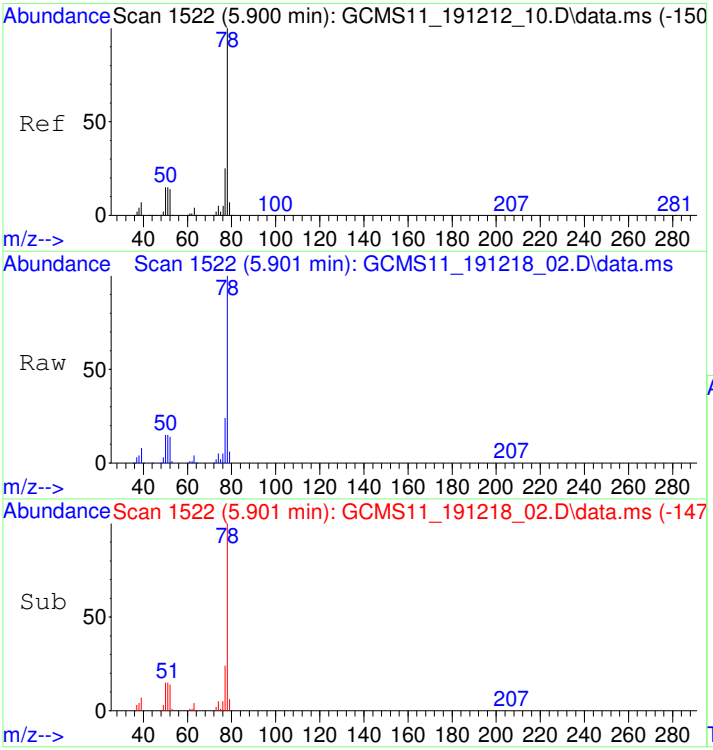


#26
1,2-DICHLOROETHANE-D4
Concen: 51.64 ng
RT: 5.85 min Scan# 1506
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 65 Resp: 17684

Ion	Ratio	Lower	Upper
65	100		
67	51.6	15.4	75.4
51	38.2	2.7	62.7

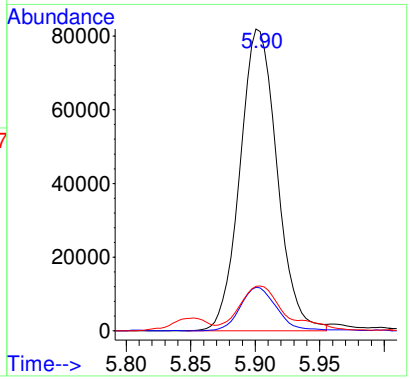


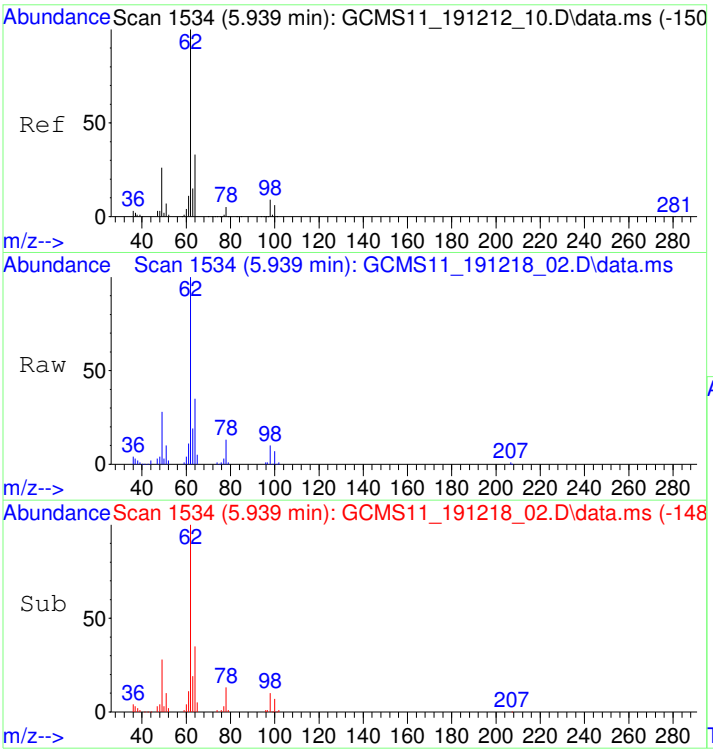


#27
Benzene
Concen: 123.08 ng
RT: 5.90 min Scan# 1522
Delta R.T. -0.006 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 78 Resp: 163221

Ion	Ratio	Lower	Upper
78	100		
52	14.3	0.0	44.0
51	17.8	0.0	48.4

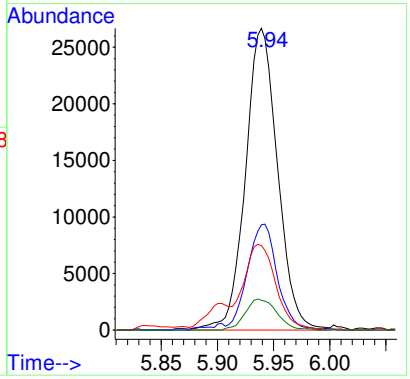


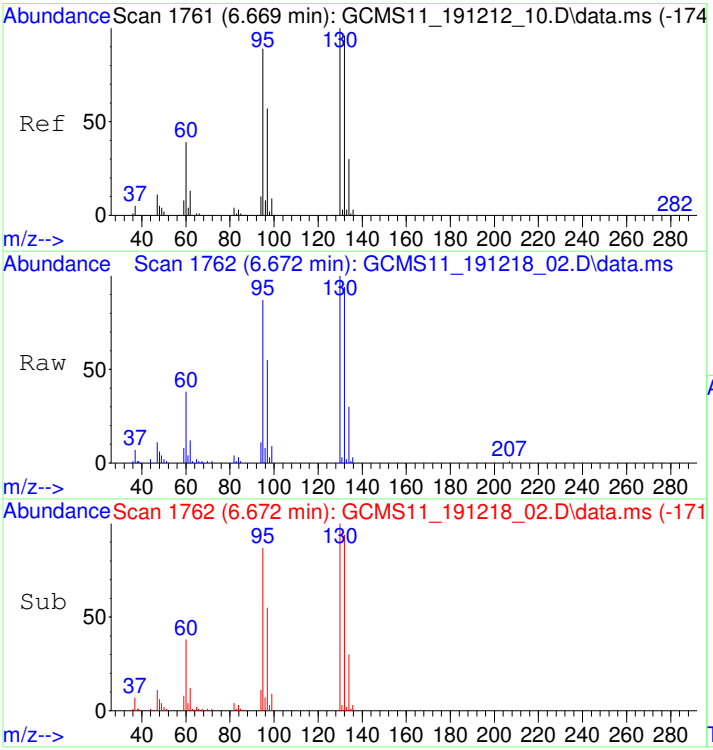


#28
1,2-Dichloroethane
Concen: 119.07 ng
RT: 5.94 min Scan# 1534
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 62 Resp: 53068

Ion	Ratio	Lower	Upper
62	100		
64	32.6	3.2	63.2
49	28.8	0.0	55.4
98	10.2	0.0	39.6

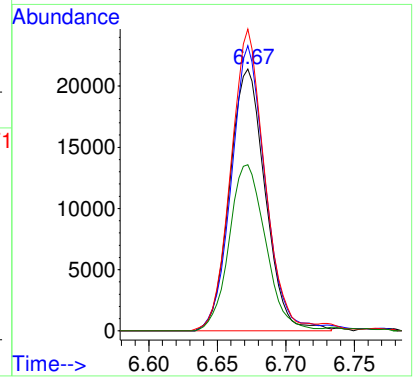


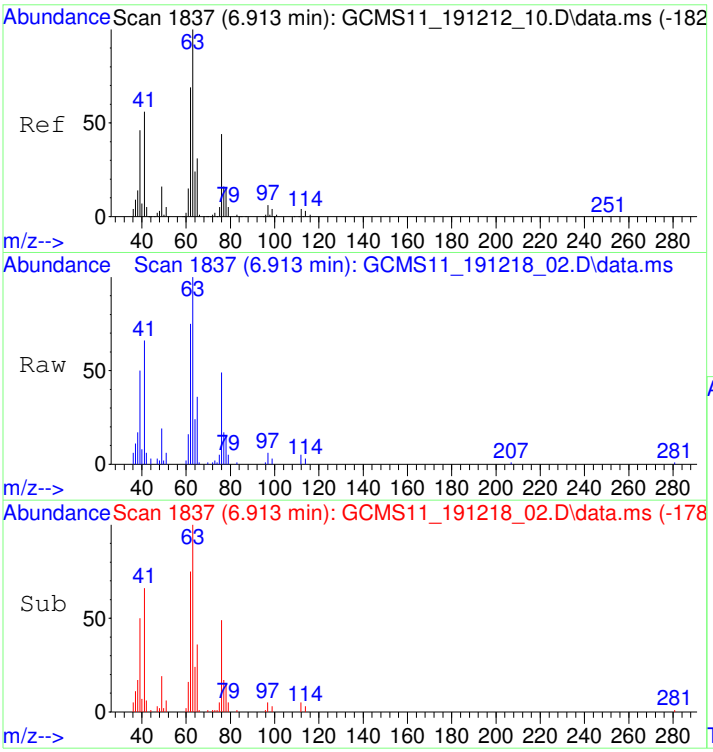


#29
Trichloroethene
Concen: 123.53 ng
RT: 6.67 min Scan# 1762
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 95 Resp: 38658

Ion	Ratio	Lower	Upper
95	100		
132	103.8	78.7	138.7
130	109.4	86.1	146.1
97	65.0	37.2	97.2

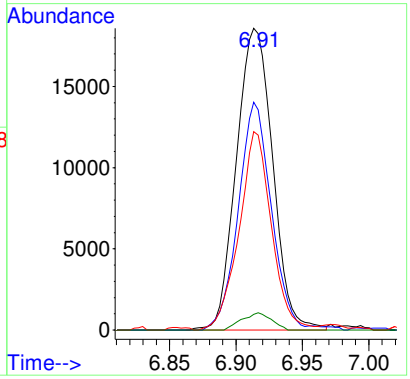


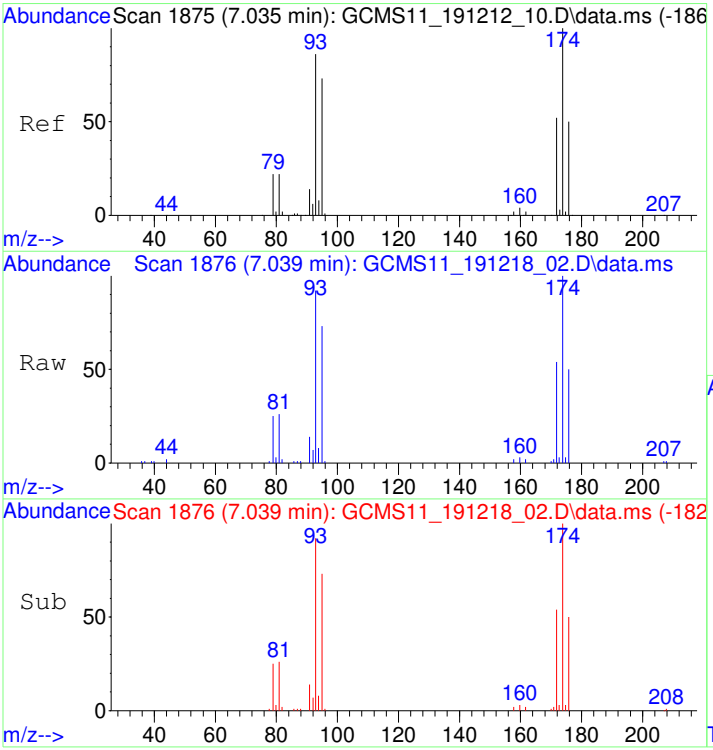


#30
1,2-Dichloropropane
Concen: 120.41 ng
RT: 6.91 min Scan# 1837
Delta R.T. -0.006 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 63 Resp: 35405

Ion	Ratio	Lower	Upper
63	100		
62	69.1	39.8	99.8
41	58.4	27.8	87.8
112	4.7	0.0	34.0

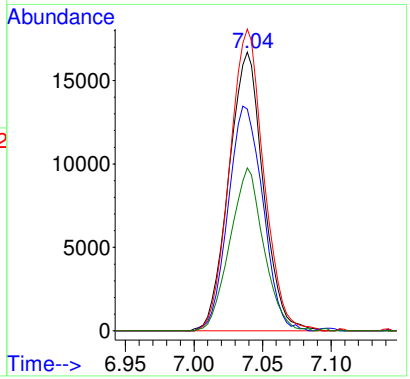


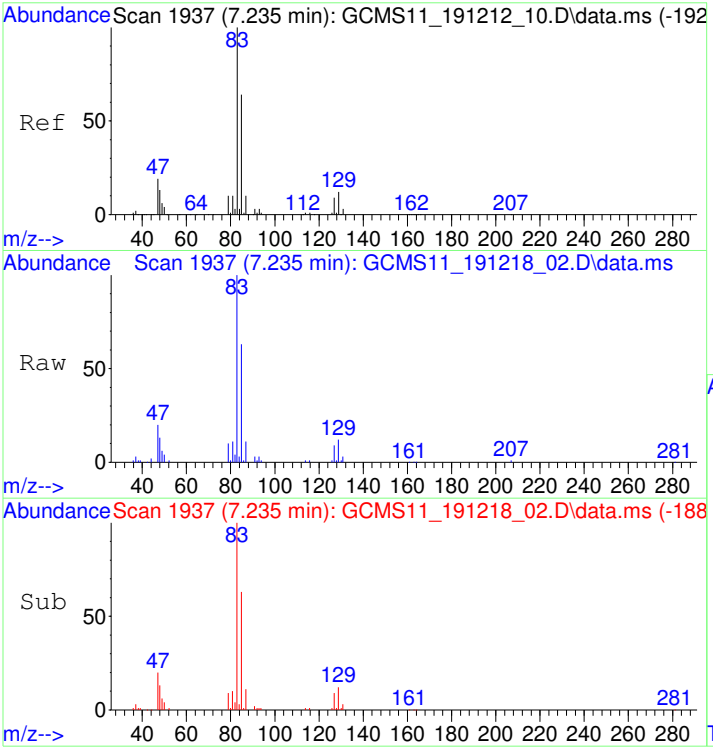


#31
Dibromomethane
Concen: 122.20 ng
RT: 7.04 min Scan# 1876
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 93 Resp: 29252

Ion	Ratio	Lower	Upper
93	100		
95	80.8	50.8	110.8
174	107.0	88.3	148.3
172	57.1	31.3	91.3

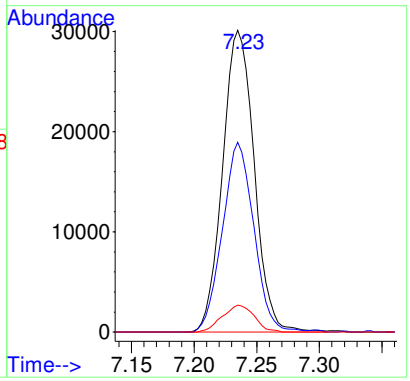


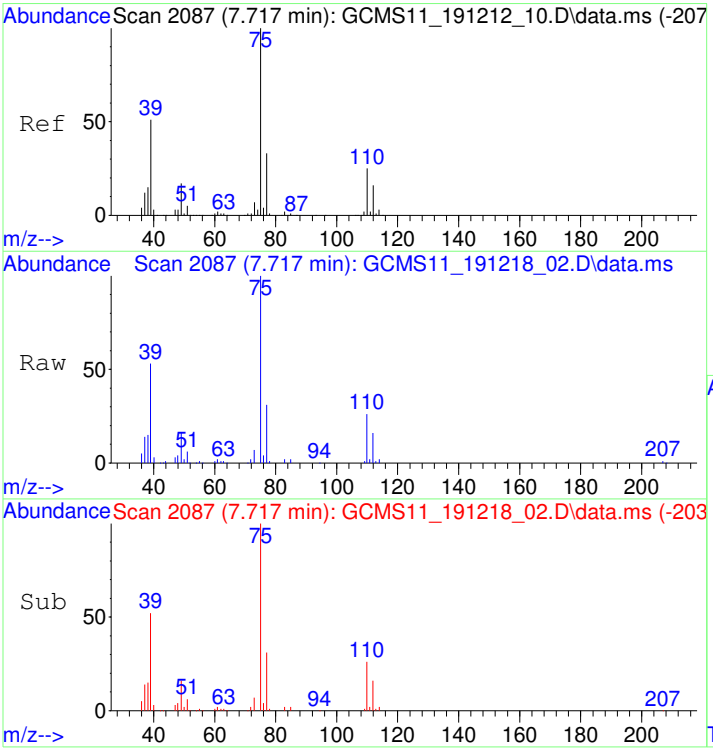


#33
Bromodichloromethane
Concen: 127.49 ng
RT: 7.23 min Scan# 1937
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 83 Resp: 52910

Ion	Ratio	Lower	Upper
83	100		
85	62.3	34.5	94.5
127	9.1	0.0	38.6

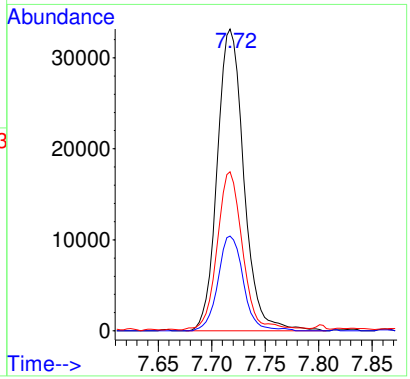


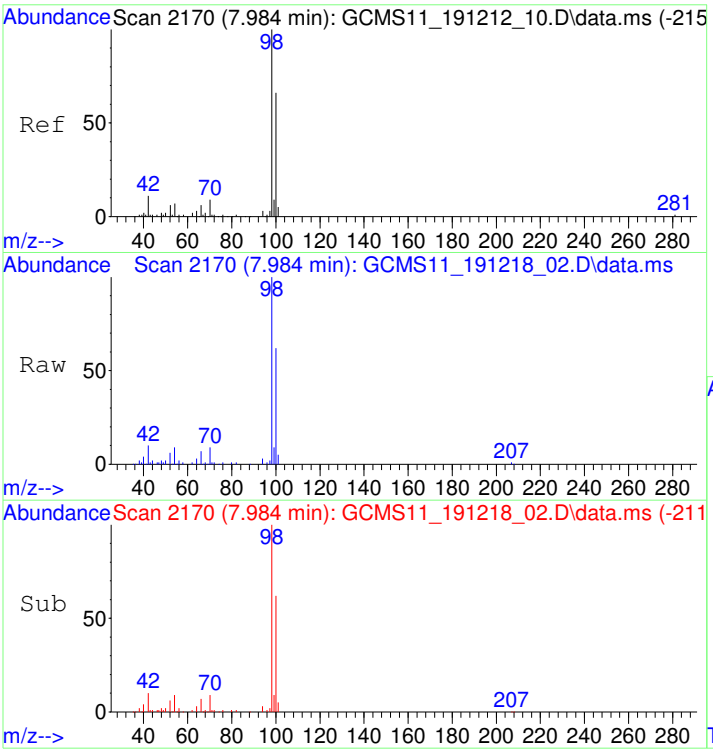


#35
cis-1,3-Dichloropropene
Concen: 125.18 ng
RT: 7.72 min Scan# 2087
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 75 Resp: 57567

Ion	Ratio	Lower	Upper
75	100		
77	29.6	2.5	62.5
39	50.1	18.8	78.8

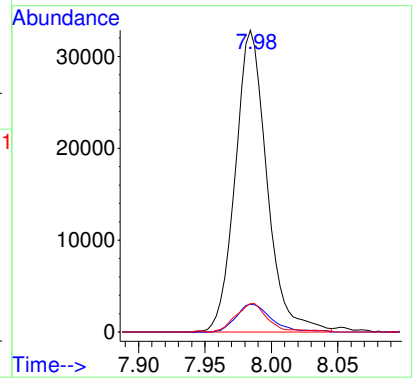


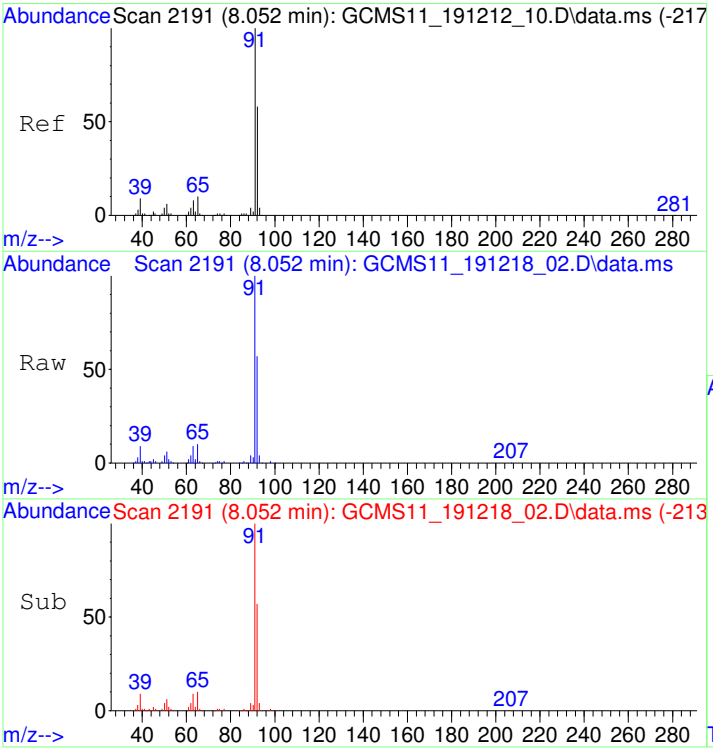


#37
TOLUENE-D8
Concen: 50.68 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 98 Resp: 54527

Ion	Ratio	Lower	Upper
98	100		
99	10.2	0.0	39.8
70	9.8	0.0	40.7

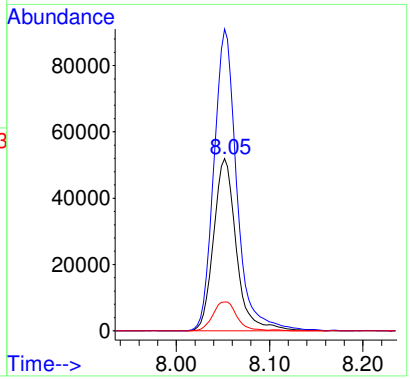


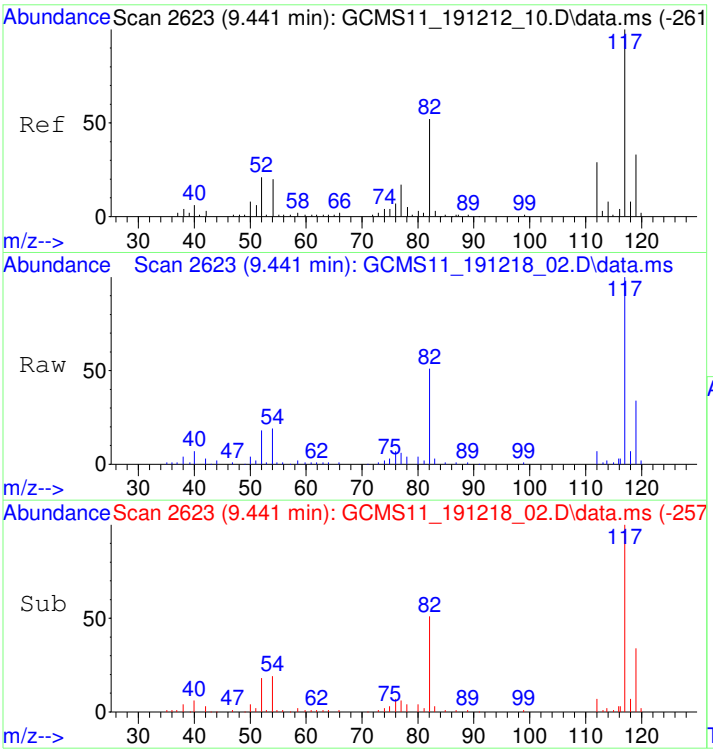


#38
Toluene
Concen: 118.79 ng
RT: 8.05 min Scan# 2191
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 92 Resp: 88118

Ion	Ratio	Lower	Upper
92	100		
91	176.5	145.1	205.1
65	17.7	0.0	48.1

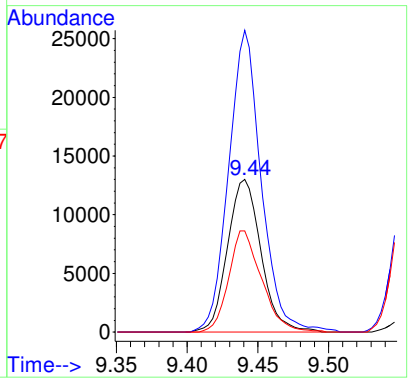


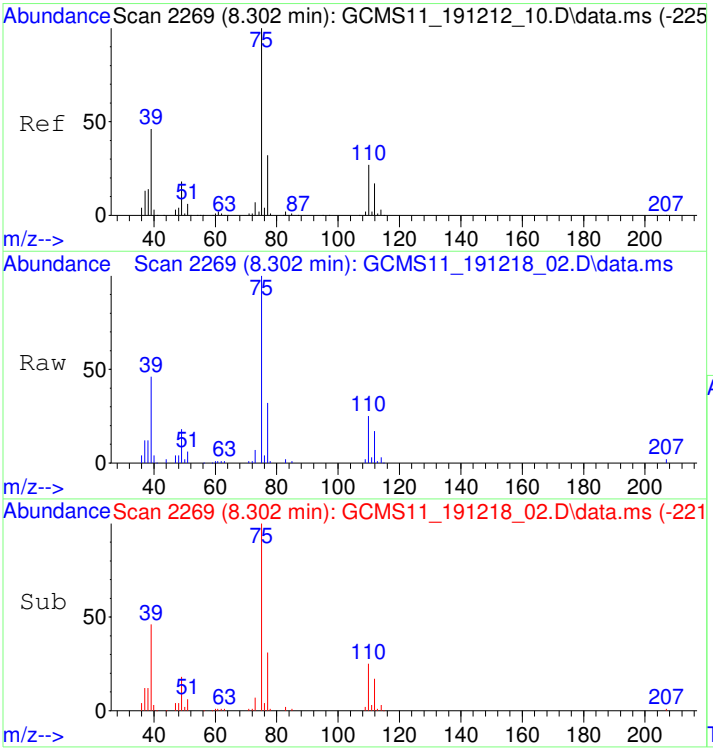


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.001 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 82 Resp: 21464

Ion	Ratio	Lower	Upper
82	100		
117	192.0	160.7	220.7
119	65.2	33.5	93.5

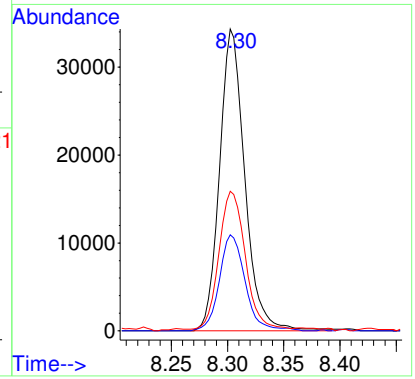


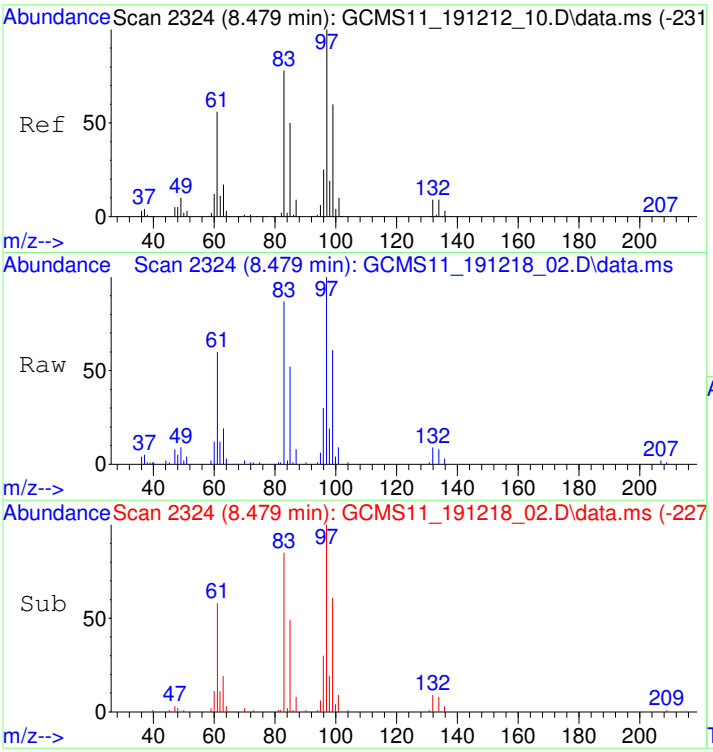


#40
trans-1,3-Dichloropropene
Concen: 114.80 ng
RT: 8.30 min Scan# 2269
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 75 Resp: 53725

Ion	Ratio	Lower	Upper
75	100		
77	32.5	0.7	60.7
39	47.4	17.0	77.0

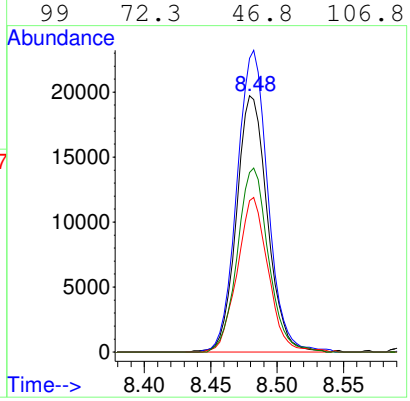


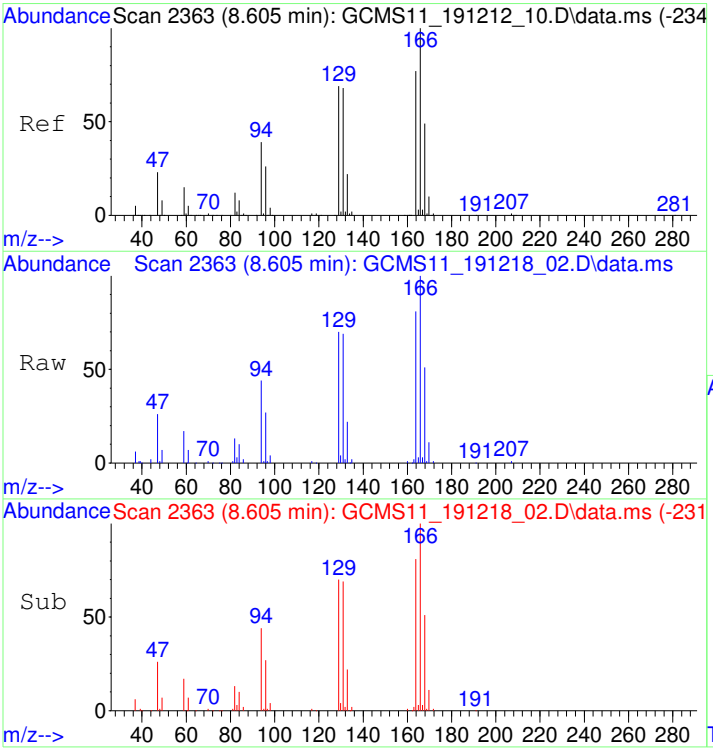


#41
1,1,2-Trichloroethane
Concen: 118.97 ng
RT: 8.48 min Scan# 2324
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 83 Resp: 32017

Ion	Ratio	Lower	Upper
83	100		
97	117.8	90.7	150.7
85	60.3	37.5	97.5
99	72.3	46.8	106.8

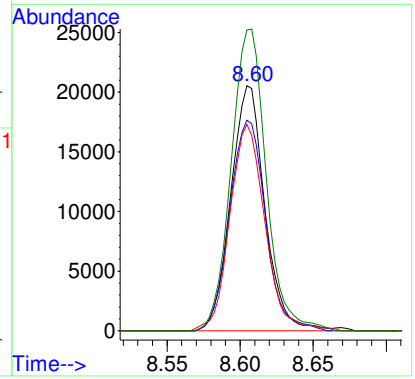


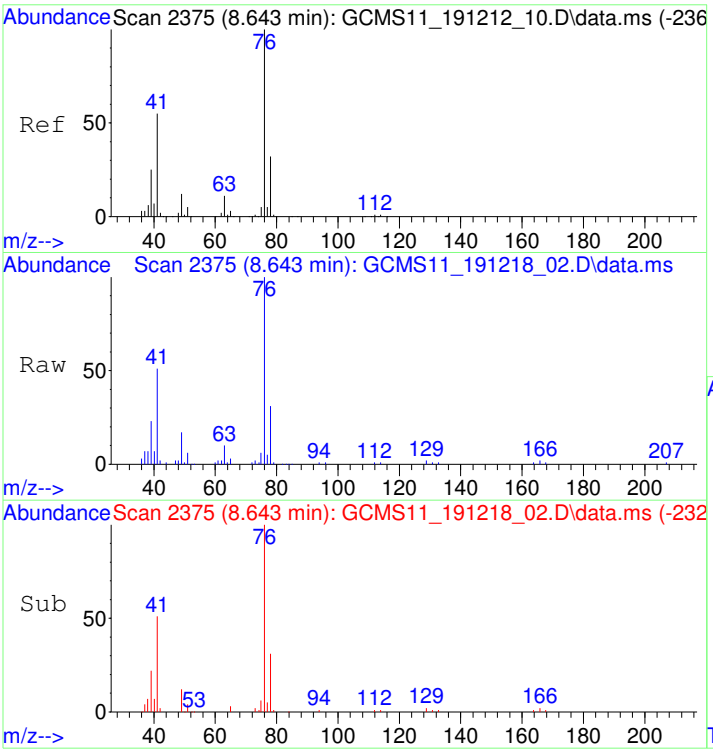


#42
Tetrachloroethene
Concen: 123.90 ng
RT: 8.60 min Scan# 2363
Delta R.T. 0.001 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:164 Resp: 33477

Ion	Ratio	Lower	Upper
164	100		
129	90.4	57.5	117.5
131	86.2	55.8	115.8
166	126.3	99.4	159.4

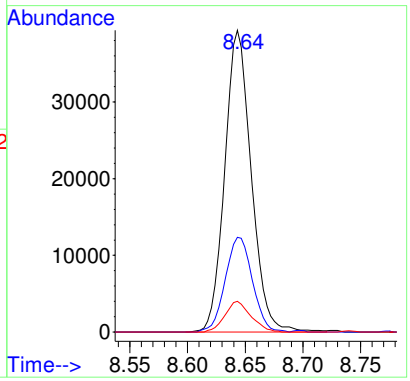


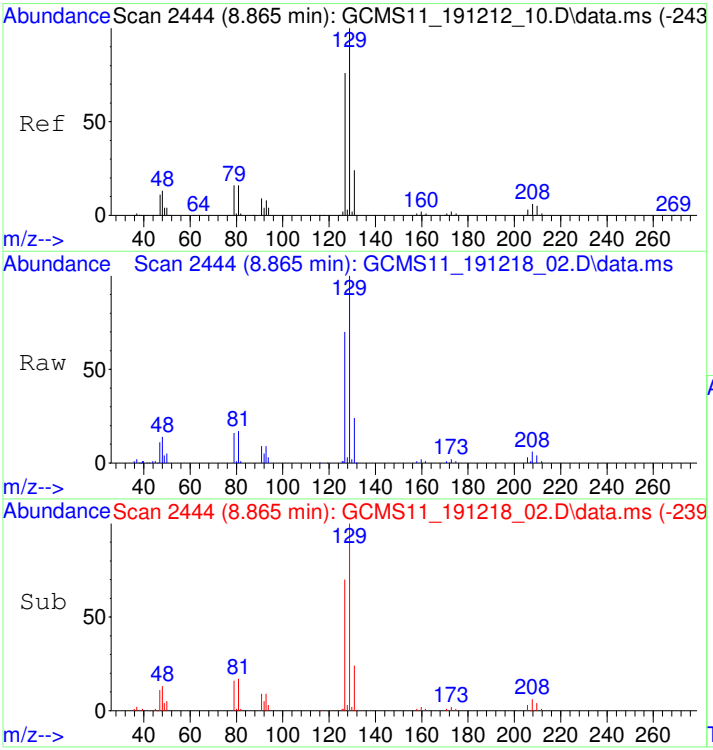


#43
1,3-Dichloropropane
Concen: 120.77 ng
RT: 8.64 min Scan# 2375
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 76 Resp: 62950

Ion	Ratio	Lower	Upper
76	100		
78	32.1	2.5	62.5
63	10.0	0.0	40.6

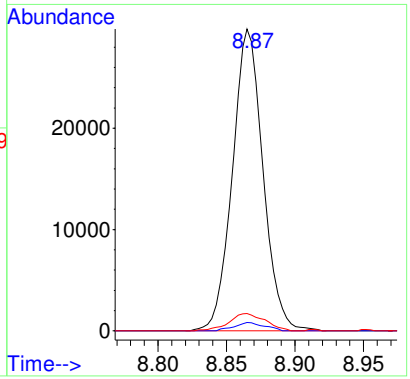


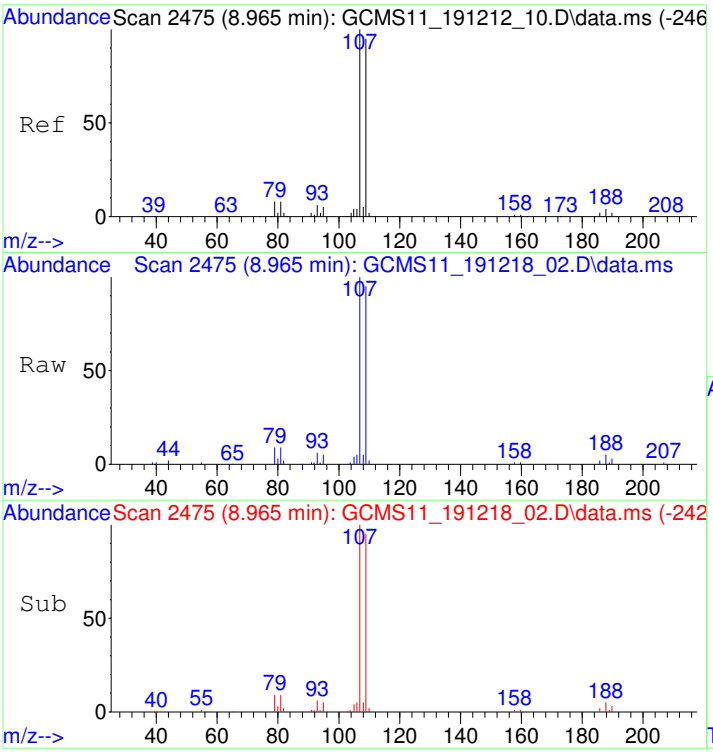


#45
Dibromochloromethane
Concen: 115.61 ng
RT: 8.87 min Scan# 2444
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:129 Resp: 46183

Ion	Ratio	Lower	Upper
129	100		
206	2.7	0.0	32.2
208	6.8	0.0	36.8

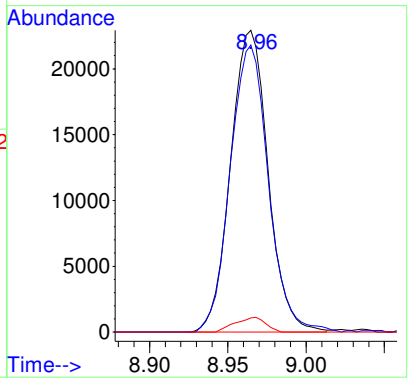


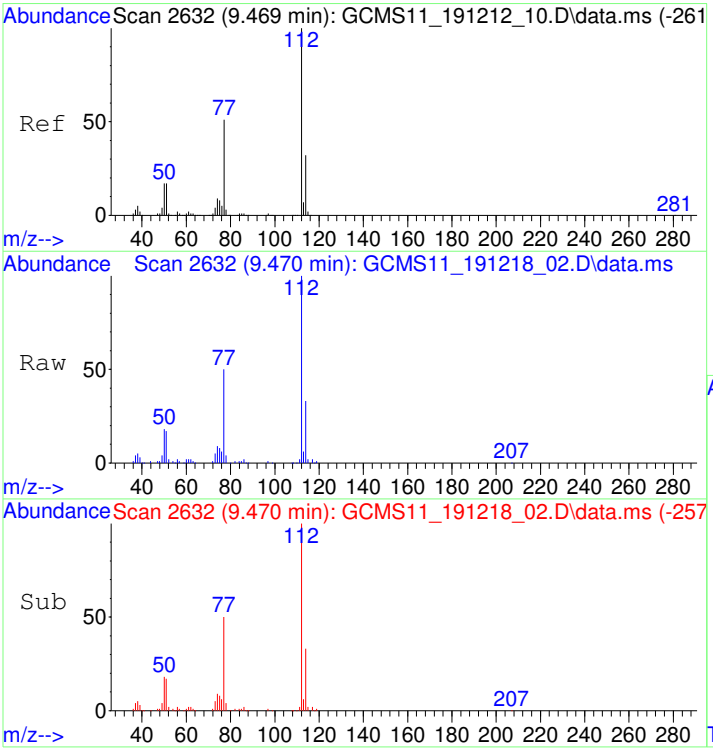


#46
1,2-Dibromoethane (EDB)
Concen: 111.96 ng
RT: 8.96 min Scan# 2475
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:107 Resp: 38203

Ion	Ratio	Lower	Upper
107	100		
109	96.6	60.6	120.6
188	4.0	0.0	33.6

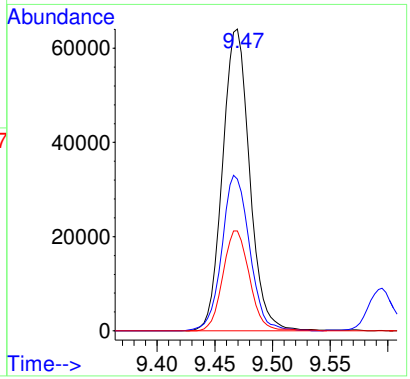


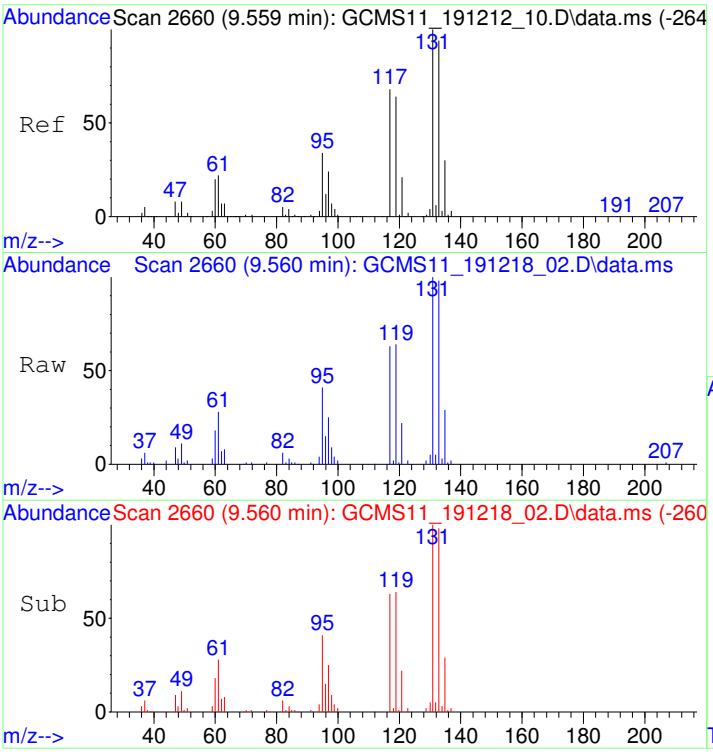


#47
Chlorobenzene
Concen: 113.37 ng
RT: 9.47 min Scan# 2632
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:112 Resp: 104523

Ion	Ratio	Lower	Upper
112	100		
77	52.9	21.6	81.6
114	32.3	1.4	61.4

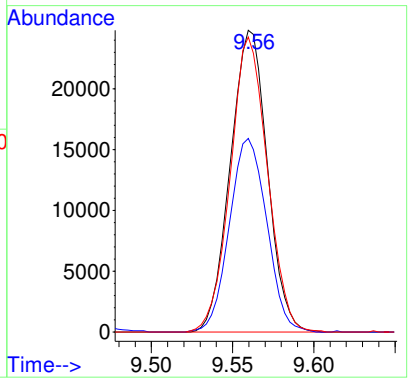


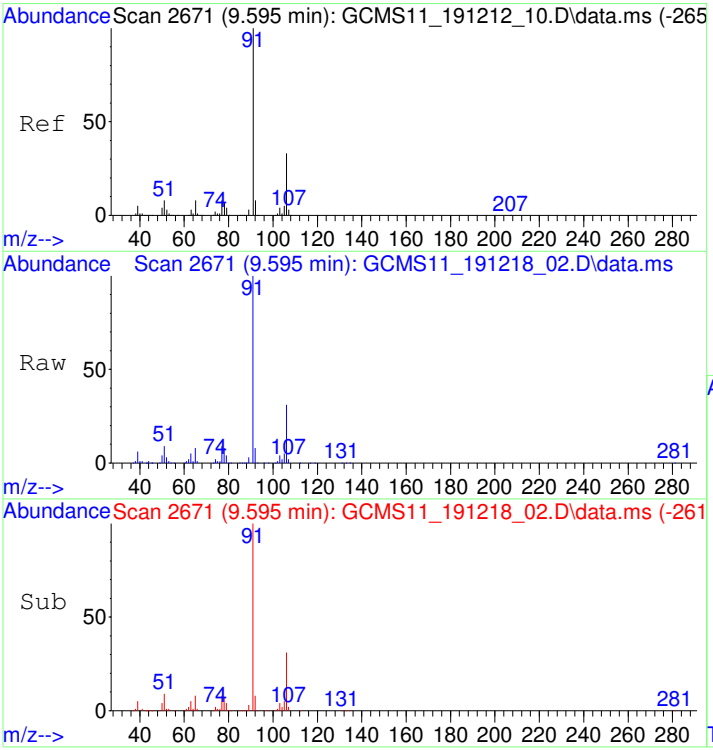


#48
1,1,1,2-Tetrachloroethane
Concen: 111.22 ng
RT: 9.56 min Scan# 2660
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:131 Resp: 39491

Ion	Ratio	Lower	Upper
131	100		
119	64.6	33.7	93.7
133	97.6	65.9	125.9

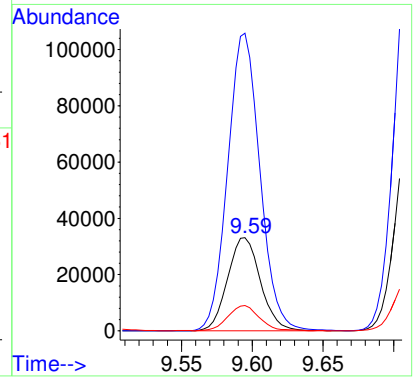


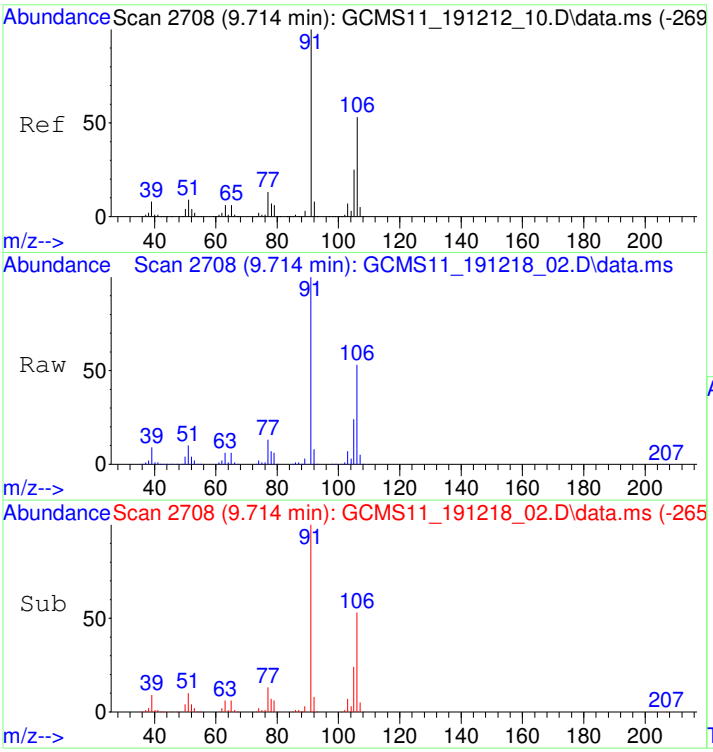


#49
Ethylbenzene
Concen: 112.87 ng
RT: 9.59 min Scan# 2671
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:106 Resp: 53631

Ion	Ratio	Lower	Upper
106	100		
91	312.4	267.1	327.1
77	26.2	0.0	57.1

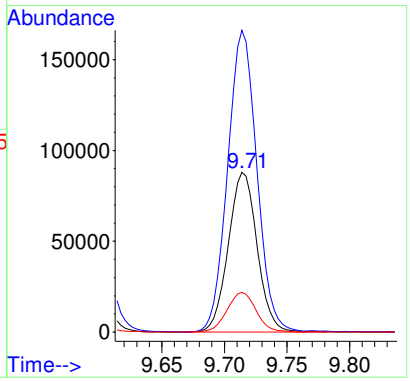


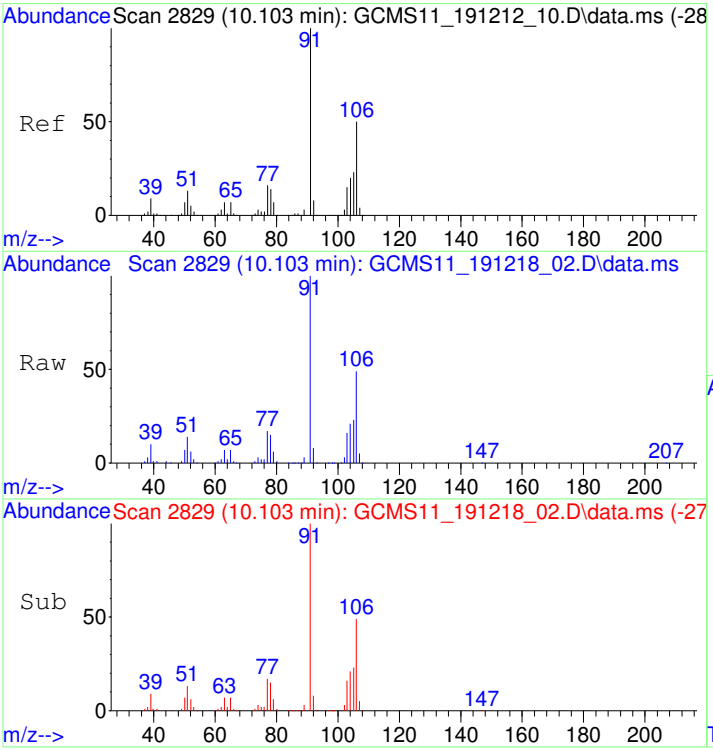


#50
m+p-Xylene
Concen: 234.35 ng
RT: 9.71 min Scan# 2708
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:106 Resp: 140874

Ion	Ratio	Lower	Upper
106	100		
91	191.1	160.8	220.8
77	25.2	0.0	54.6

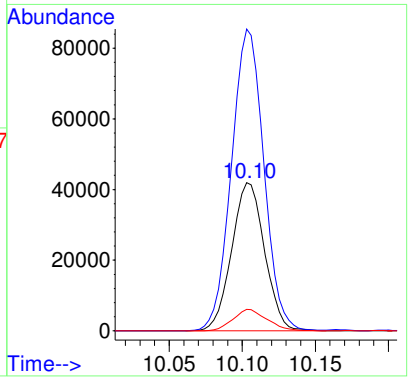


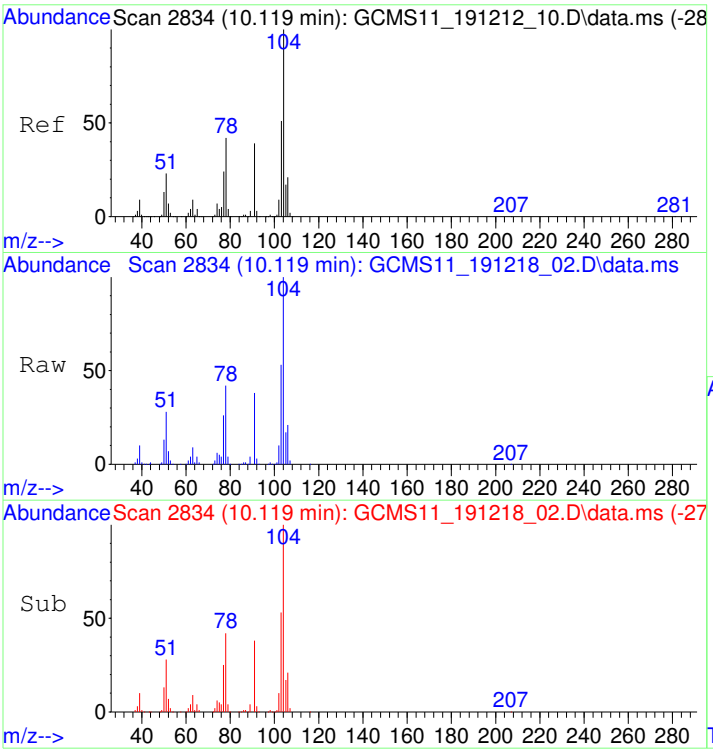


#51
o-Xylene
Concen: 113.20 ng
RT: 10.10 min Scan# 2829
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:106 Resp: 65736

Ion	Ratio	Lower	Upper
106	100		
91	200.6	178.4	238.4
65	15.1	0.0	45.9

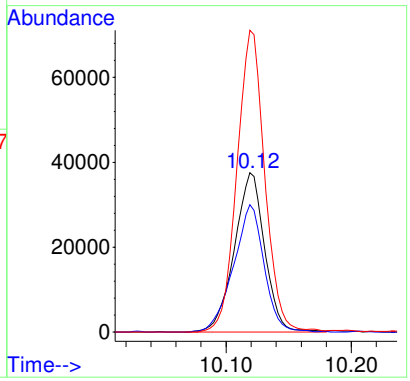


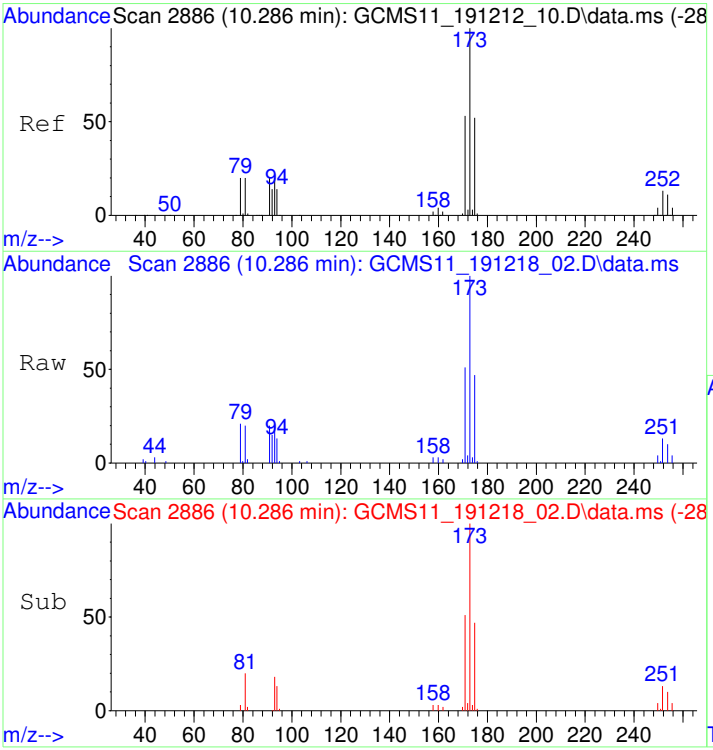


#52
Styrene
Concen: 114.92 ng
RT: 10.12 min Scan# 2834
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:103 Resp: 63126

Ion	Ratio	Lower	Upper
103	100		
78	80.9	54.1	114.1
104	174.3	150.1	210.1

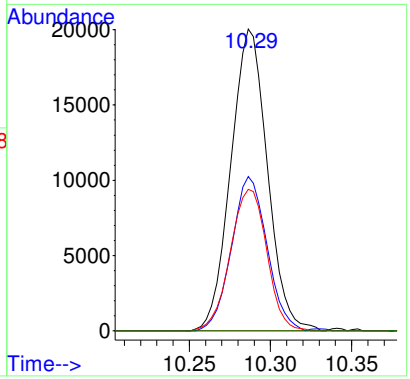


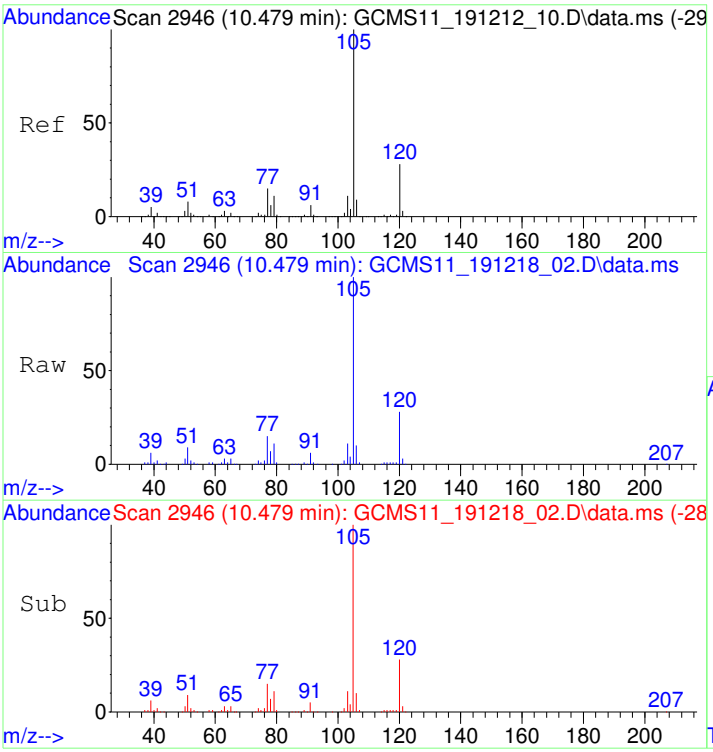


#53
Bromoform
Concen: 108.52 ng
RT: 10.29 min Scan# 2886
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:173 Resp: 31386

Ion	Ratio	Lower	Upper
173	100		
171	49.5	24.1	84.1
175	46.8	16.4	76.4
254	0.0	0.0	30.0

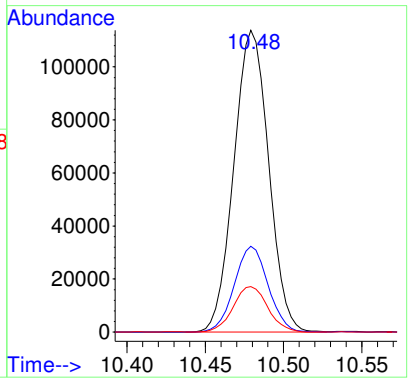


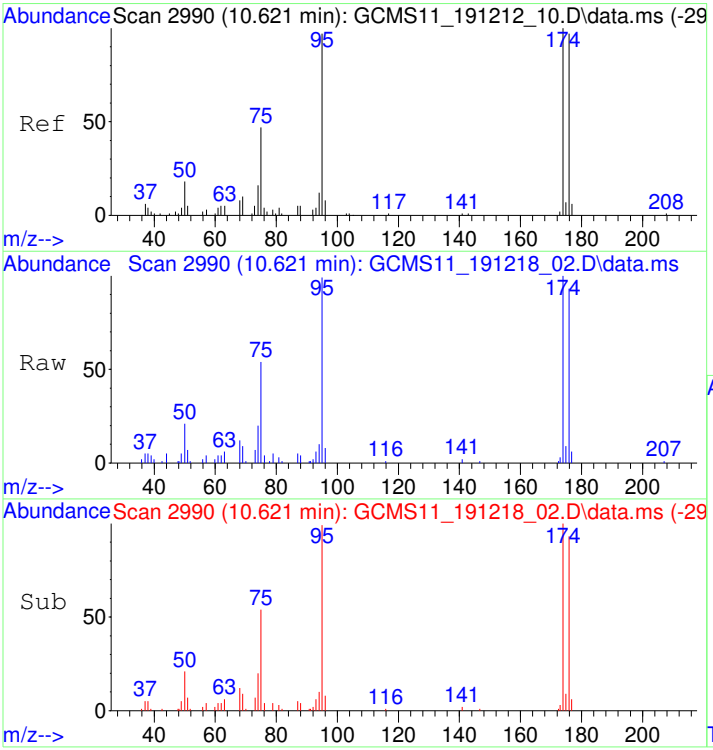


#54
Isopropylbenzene
Concen: 114.76 ng
RT: 10.48 min Scan# 2946
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:105 Resp: 175941

Ion	Ratio	Lower	Upper
105	100		
120	27.6	0.0	59.2
77	15.0	0.0	44.3

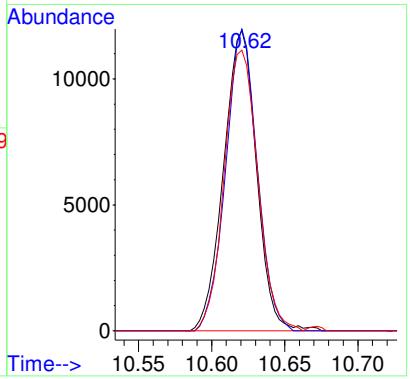


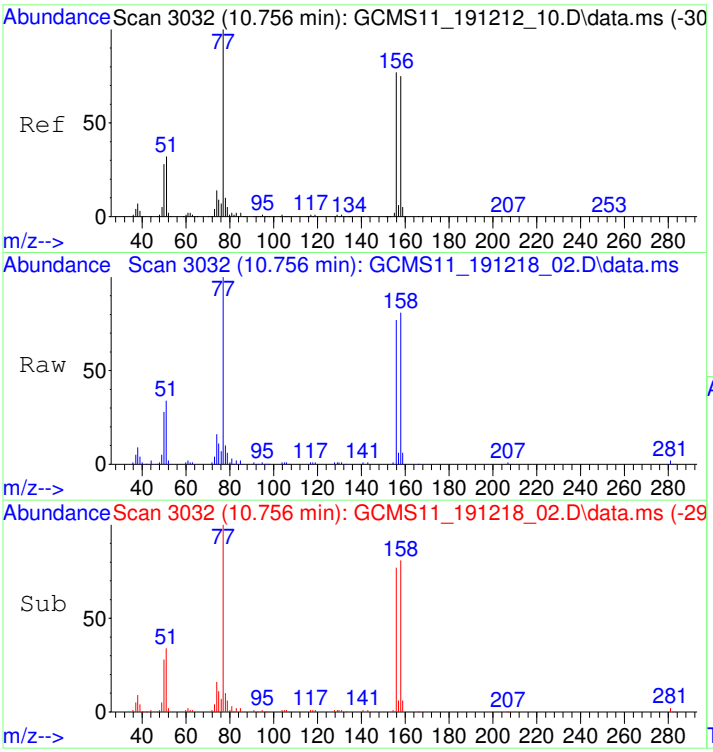


#55
4-BROMOFLUOROBENZENE
Concen: 48.00 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 95 Resp: 18679

Ion	Ratio	Lower	Upper
95	100		
174	96.2	68.5	128.5
176	95.3	66.8	126.8

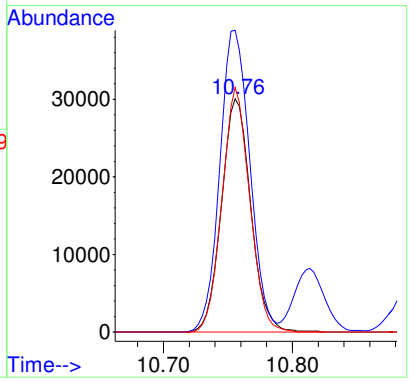


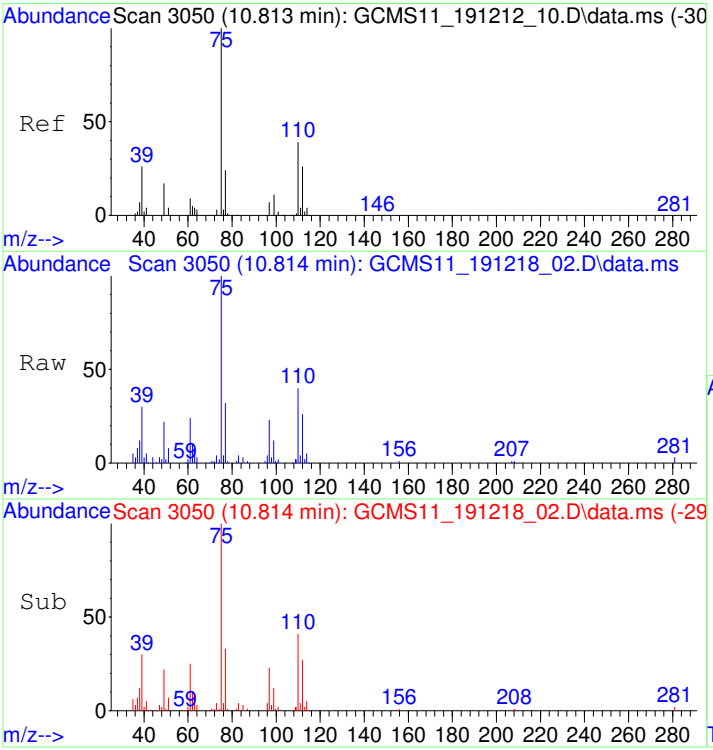


#56
Bromobenzene
Concen: 118.34 ng
RT: 10.76 min Scan# 3032
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:156 Resp: 47638

Ion	Ratio	Lower	Upper
156	100		
77	132.7	102.0	162.0
158	98.8	70.7	130.7

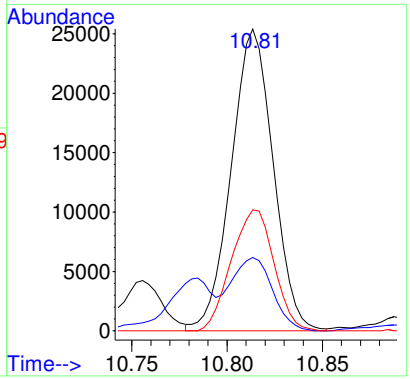


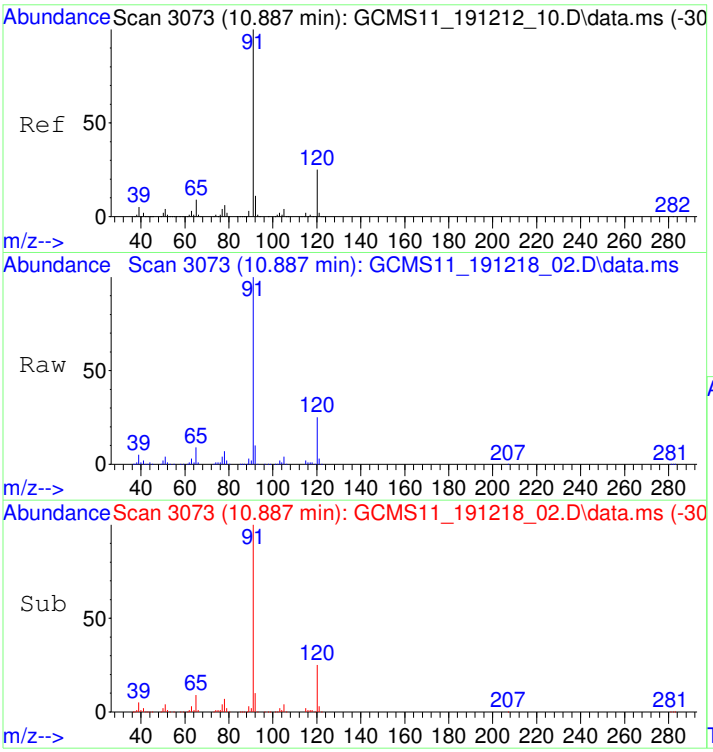


#57
1,2,3-Trichloropropane
Concen: 110.16 ng
RT: 10.81 min Scan# 3050
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 75 Resp: 38852

Ion	Ratio	Lower	Upper
75	100		
61	24.4	0.0	53.9
110	40.7	12.0	72.0

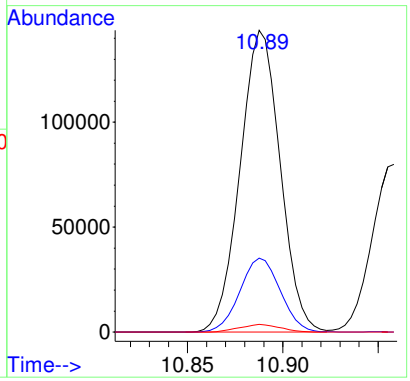


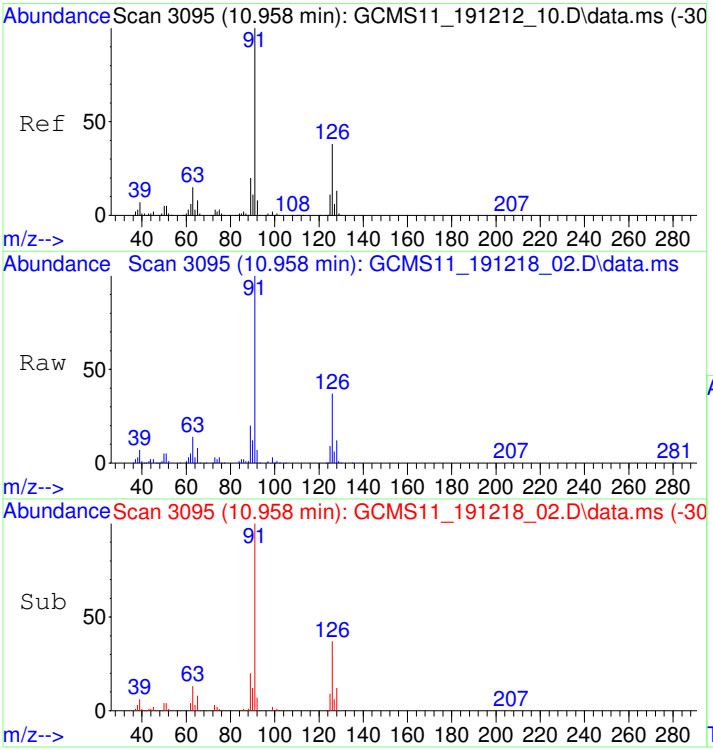


#58
n-Propylbenzene
Concen: 121.87 ng
RT: 10.89 min Scan# 3073
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 91 Resp: 210134

Ion	Ratio	Lower	Upper
91	100		
120	24.8	0.0	55.0
121	2.6	0.0	32.4

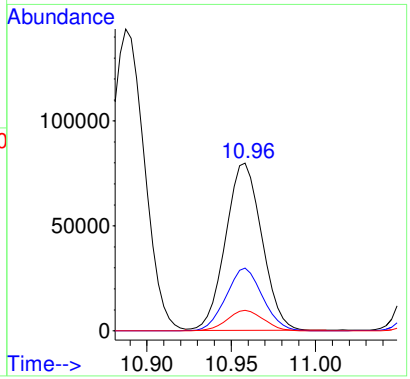


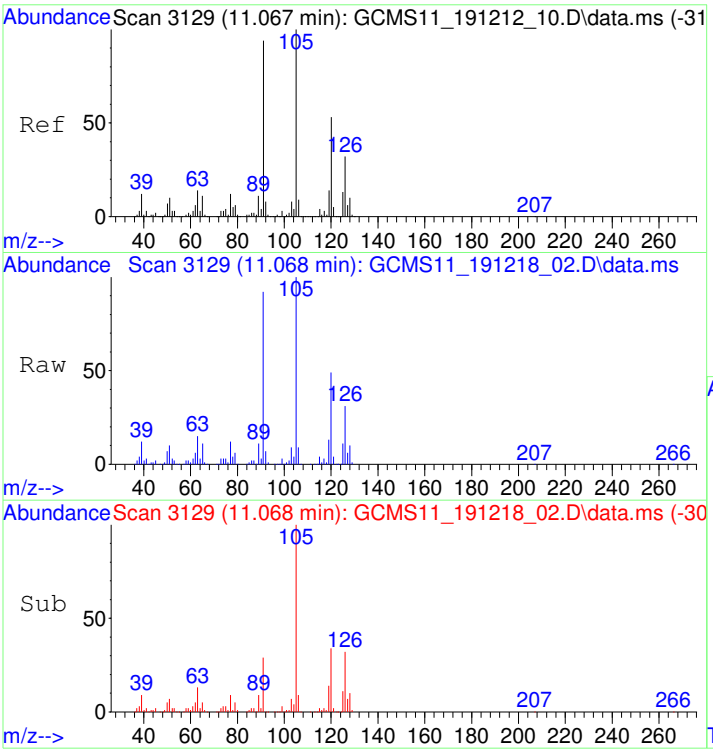


#59
2-Chlorotoluene
Concen: 118.37 ng
RT: 10.96 min Scan# 3095
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 91 Resp: 119270

Ion	Ratio	Lower	Upper
91	100		
126	37.8	7.6	67.6
128	12.3	0.0	41.8

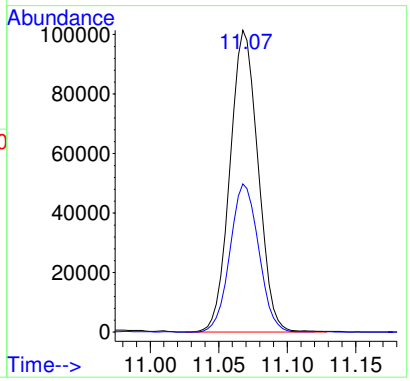


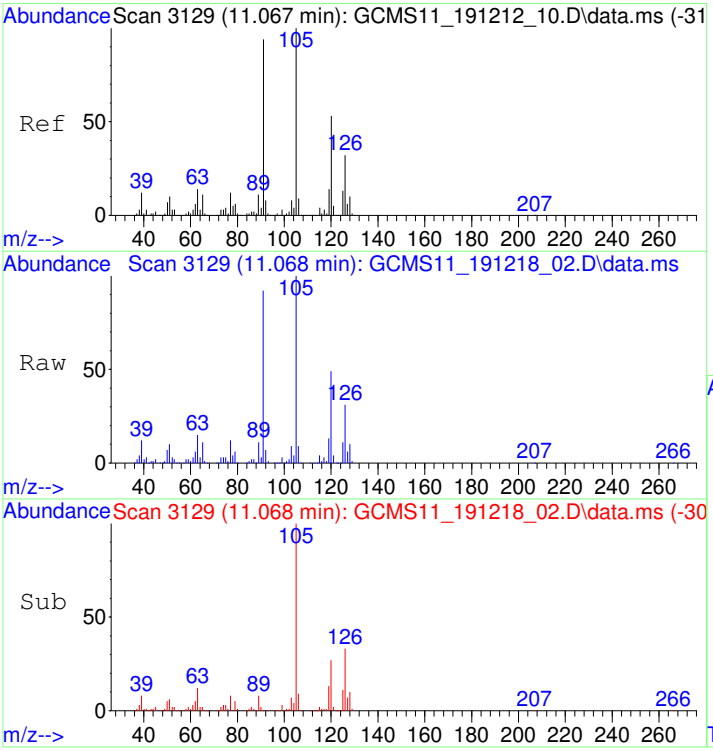


#60
1,3,5-Trimethylbenzene
Concen: 115.92 ng
RT: 11.07 min Scan# 3129
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:105 Resp: 144750

Ion	Ratio	Lower	Upper
105	100		
120	50.1	22.4	82.4

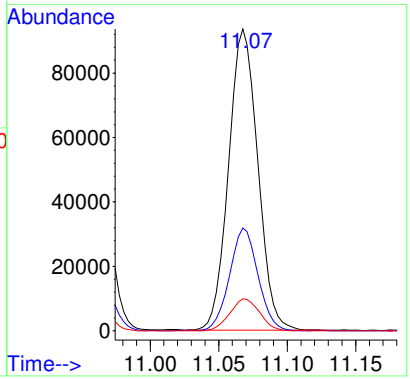


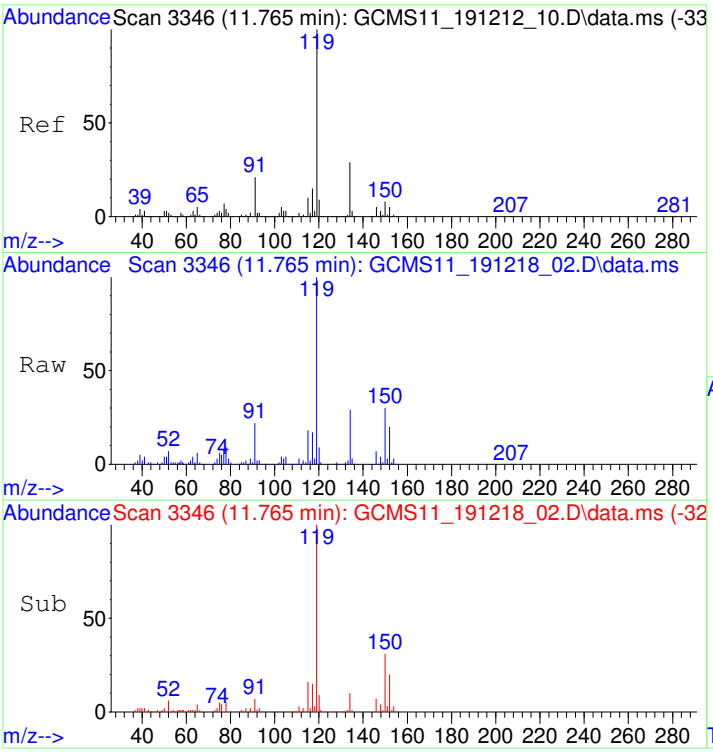


#61
4-Chlorotoluene
Concen: 118.00 ng
RT: 11.07 min Scan# 3129
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 91 Resp: 138713

Ion	Ratio	Lower	Upper
91	100		
126	33.3	3.3	63.3
128	10.8	0.0	41.2

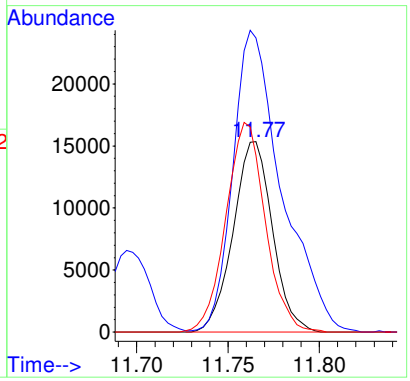


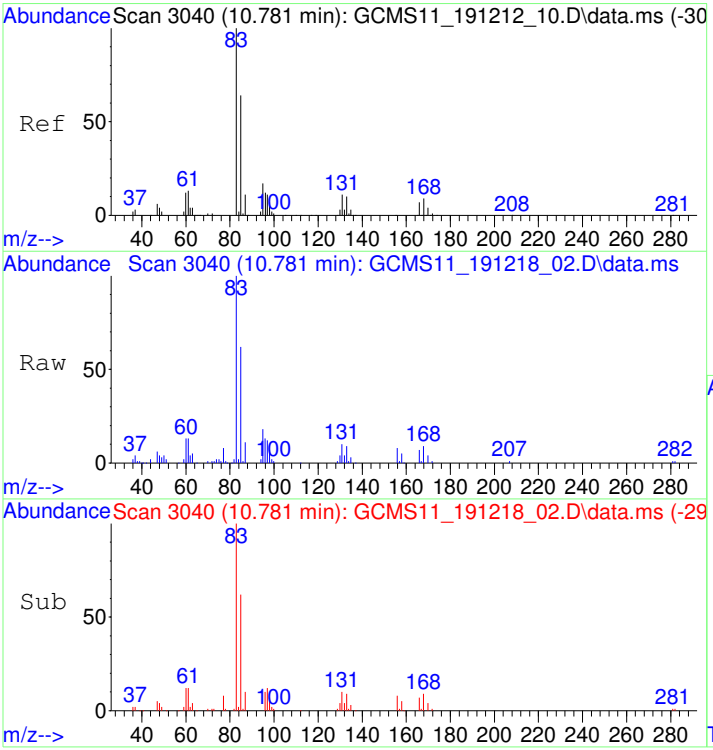


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:152 Resp: 22954

Ion	Ratio	Lower	Upper
152	100		
150	197.7	162.5	222.5
115	110.7	82.3	142.3

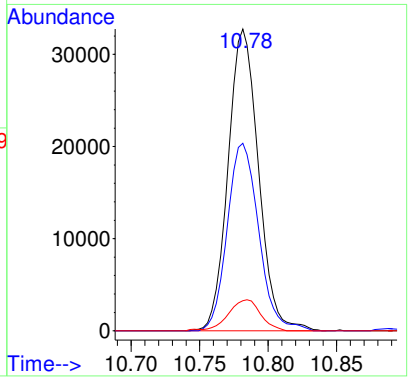


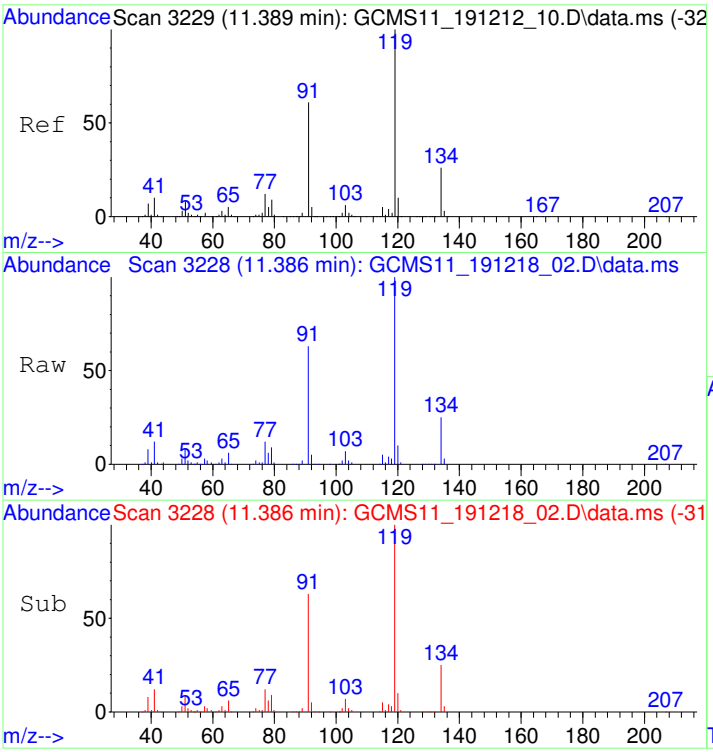


#63
1,1,2,2-Tetrachloroethane
Concen: 122.96 ng
RT: 10.78 min Scan# 3040
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 83 Resp: 50655

Ion	Ratio	Lower	Upper
83	100		
85	64.1	35.1	95.1
131	10.8	0.0	41.4

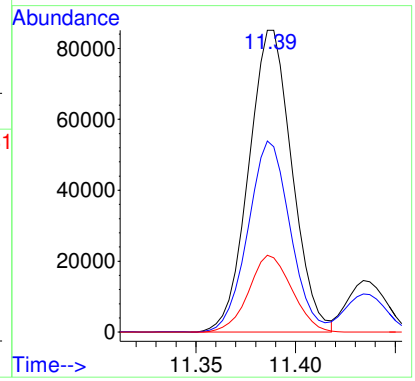


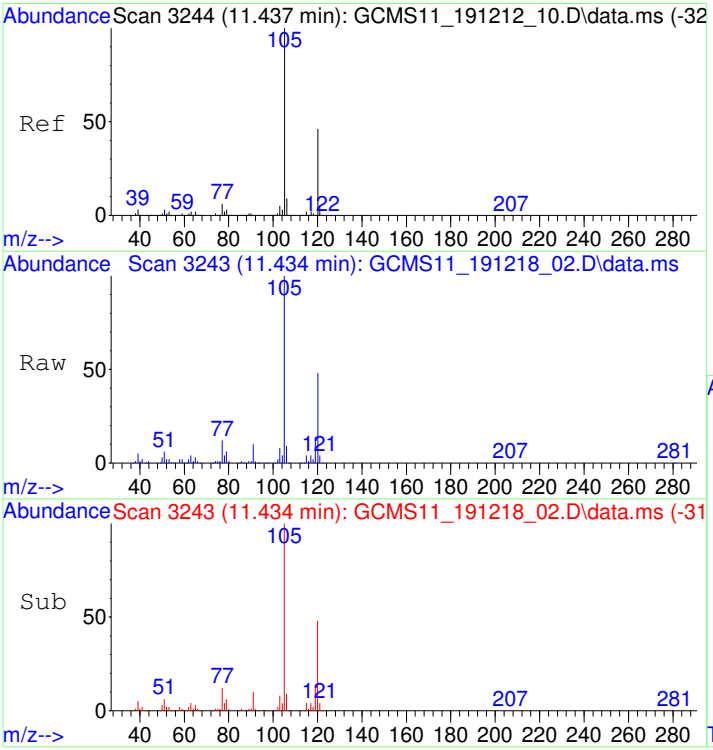


#64
tert-Butylbenzene
Concen: 127.28 ng
RT: 11.39 min Scan# 3228
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:119 Resp: 128919

Ion	Ratio	Lower	Upper
119	100		
91	61.5	31.1	91.1
134	25.3	0.0	55.9

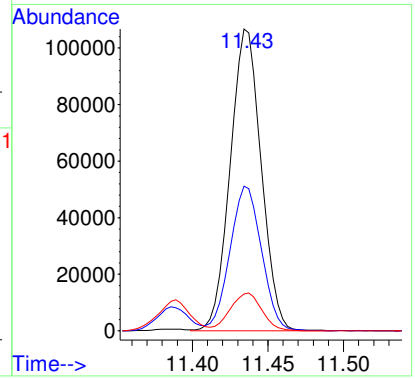


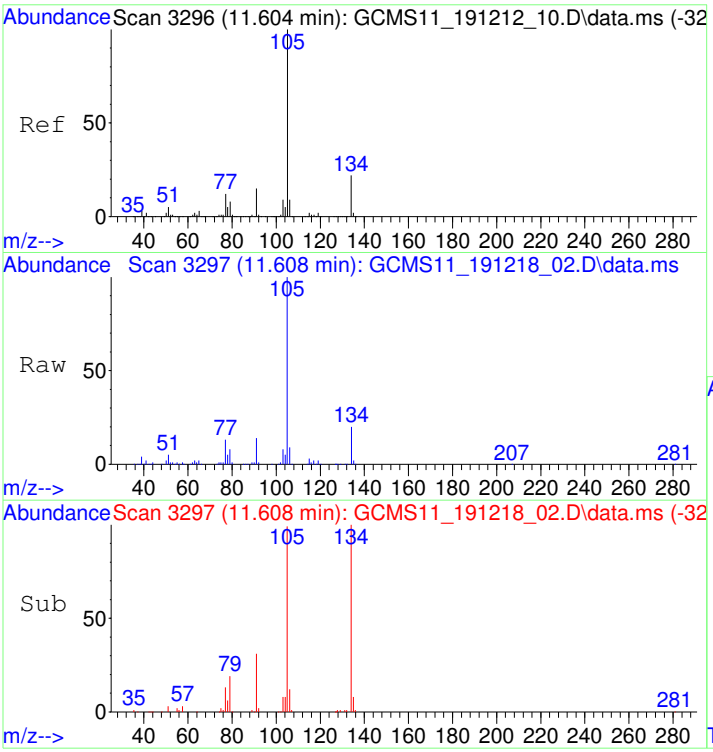


#65
1,2,4-Trimethylbenzene
Concen: 122.99 ng
RT: 11.43 min Scan# 3243
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:105 Resp: 152353

Ion	Ratio	Lower	Upper
105	100		
120	48.7	18.6	78.6
77	12.8	0.0	41.4

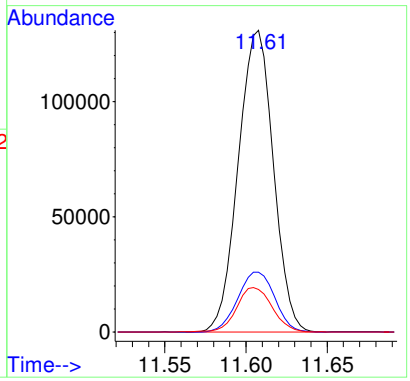


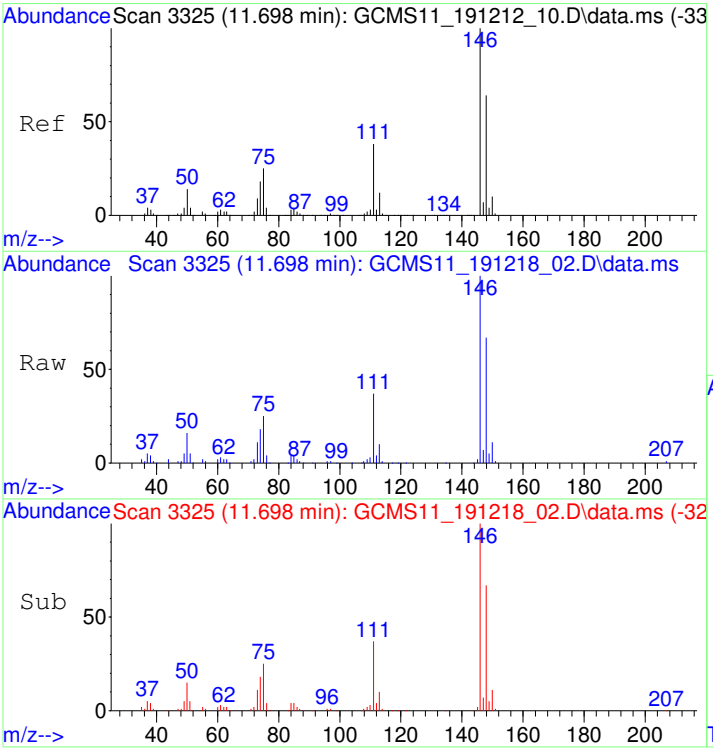


#66
sec-Butylbenzene
Concen: 129.67 ng
RT: 11.61 min Scan# 3297
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:105 Resp: 197110

Ion	Ratio	Lower	Upper
105	100		
134	21.0	0.0	52.3
91	15.1	0.0	45.3

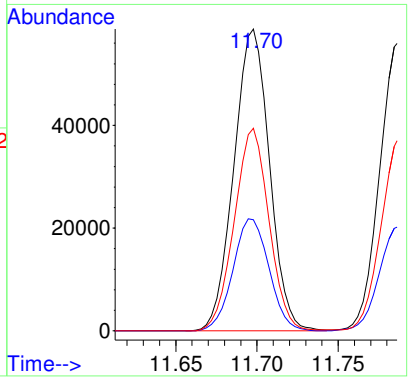


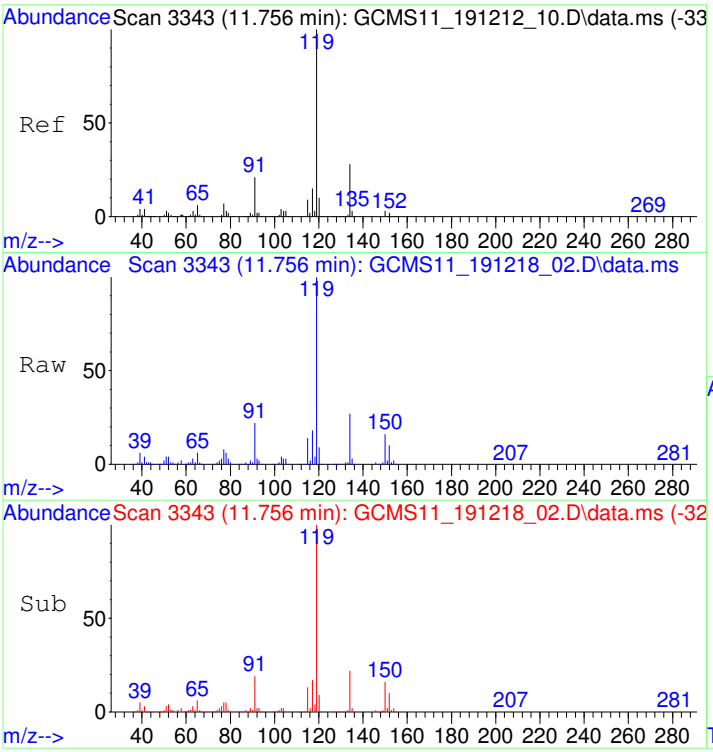


#67
1,3-Dichlorobenzene
Concen: 126.46 ng
RT: 11.70 min Scan# 3325
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:146 Resp: 89631

Ion	Ratio	Lower	Upper
146	100		
111	37.6	7.5	67.5
148	65.5	37.4	97.4

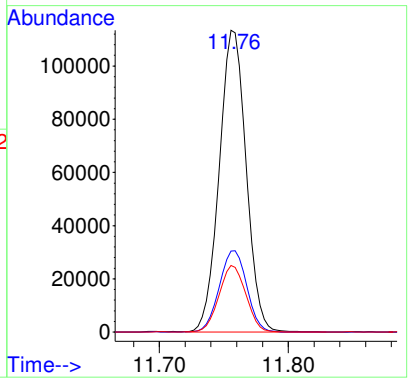


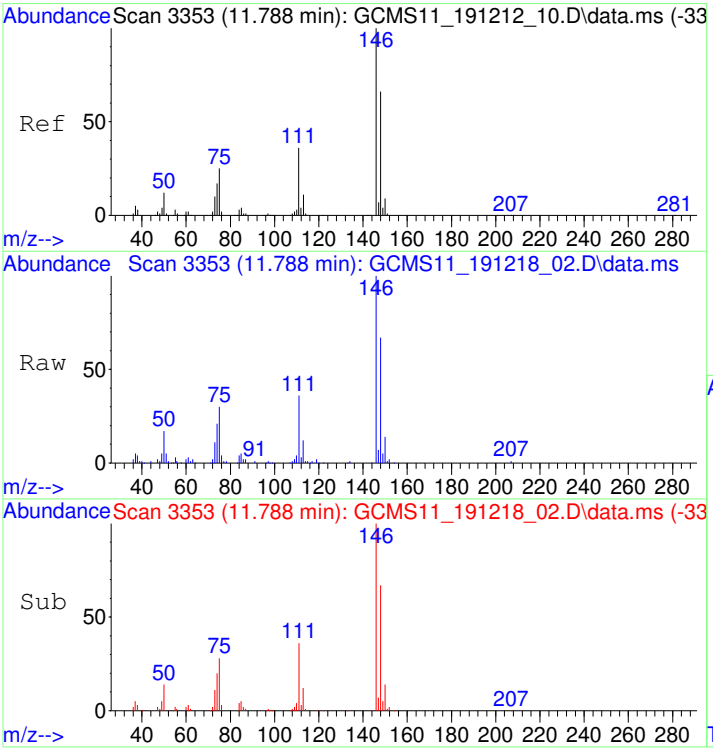


#68
p-Isopropyltoluene
Concen: 123.51 ng
RT: 11.76 min Scan# 3343
Delta R.T. -0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:119 Resp: 164382

Ion	Ratio	Lower	Upper
119	100		
134	27.6	0.0	57.5
91	22.0	0.0	51.3

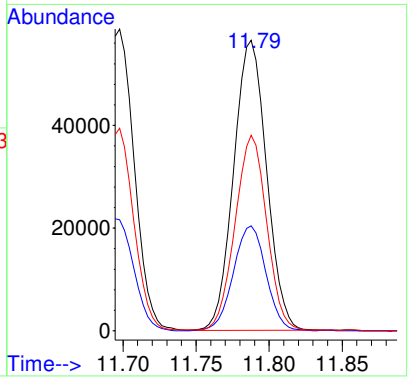


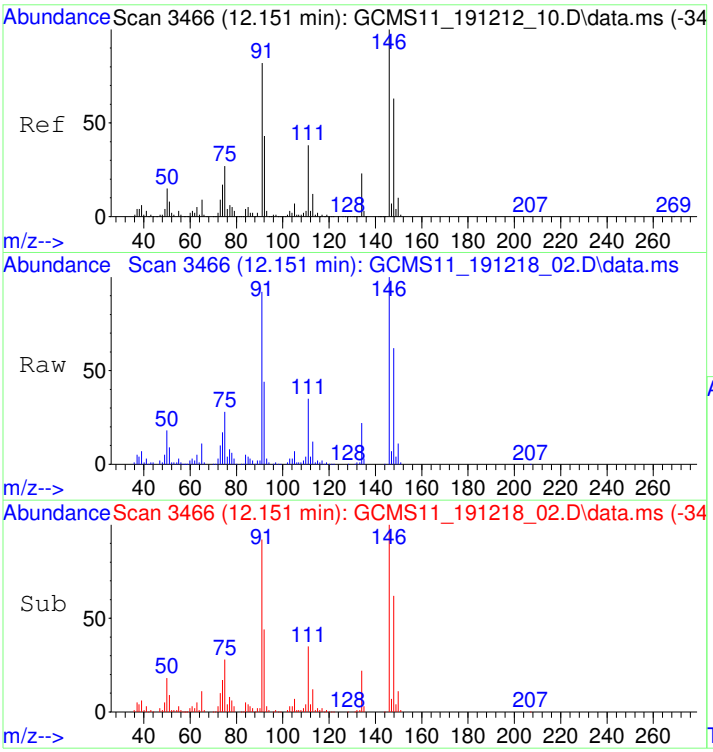


#69
1,4-Dichlorobenzene
Concen: 122.92 ng
RT: 11.79 min Scan# 3353
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:146 Resp: 88679

Ion	Ratio	Lower	Upper
146	100		
111	36.0	3.3	63.3
148	64.4	33.5	93.5

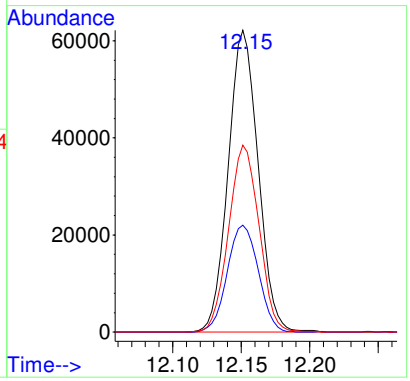


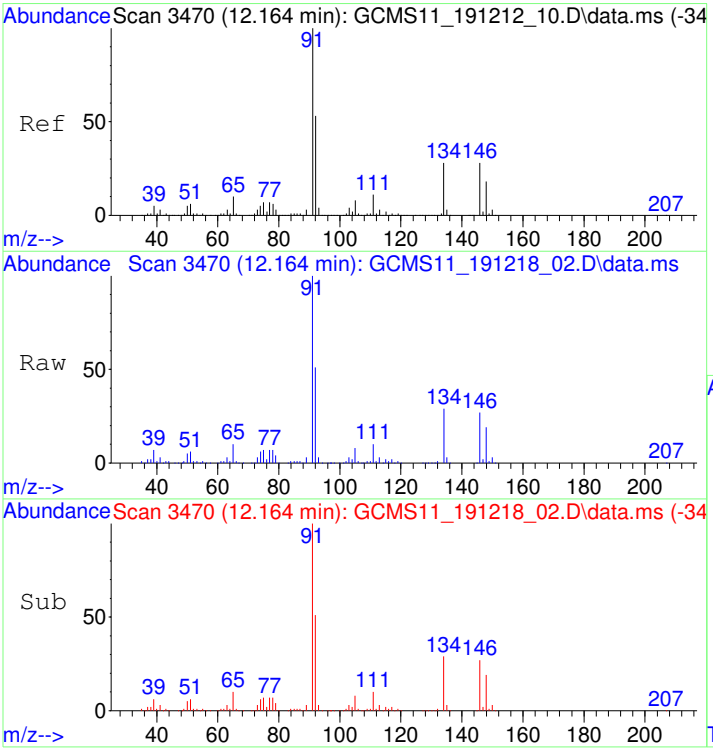


#70
1,2-Dichlorobenzene
Concen: 123.34 ng
RT: 12.15 min Scan# 3466
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:146 Resp: 94517

Ion	Ratio	Lower	Upper
146	100		
111	36.8	8.4	68.4
148	63.0	34.6	94.6

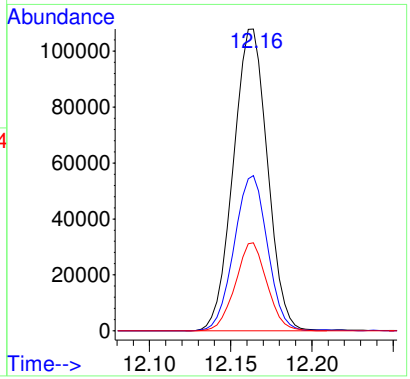


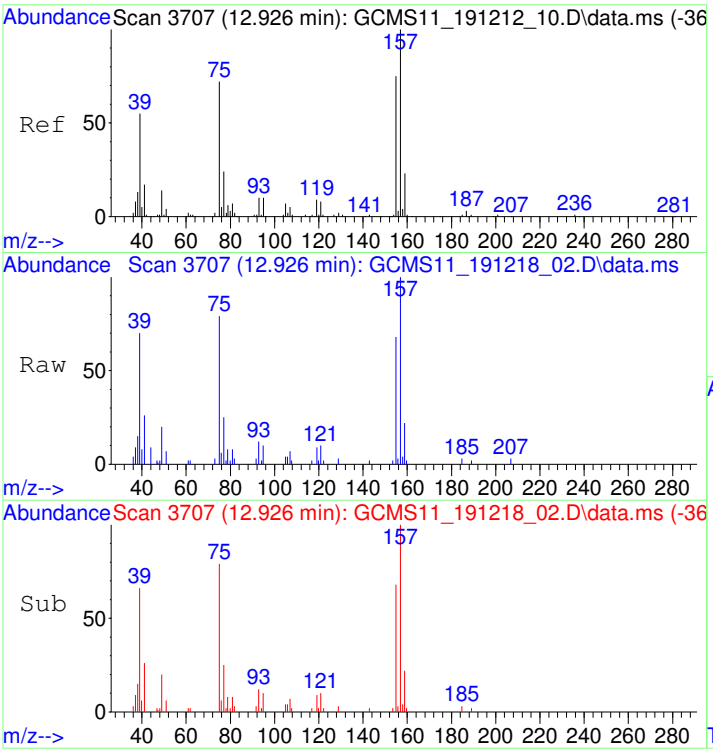


#71
n-Butylbenzene
Concen: 133.75 ng
RT: 12.16 min Scan# 3470
Delta R.T. 0.003 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion: 91 Resp: 158279

Ion	Ratio	Lower	Upper
91	100		
92	50.0	22.0	82.0
134	27.0	0.0	58.4

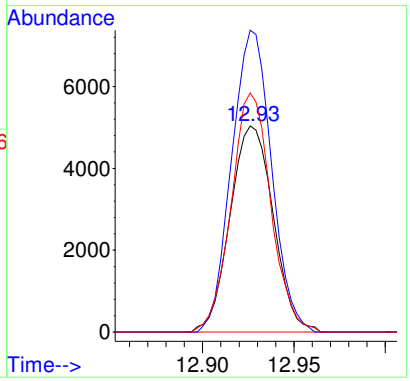


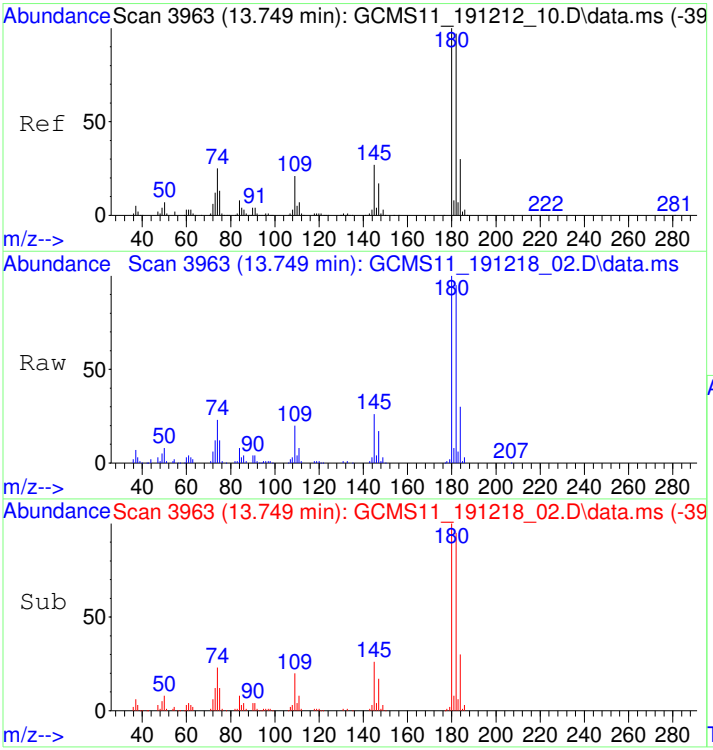


#72
1,2-Dibromo-3-chloropropane
Concen: 105.16 ng
RT: 12.93 min Scan# 3707
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:155 Resp: 8275

Ion	Ratio	Lower	Upper
155	100		
157	135.6	110.8	170.8
75	106.9	79.5	139.5

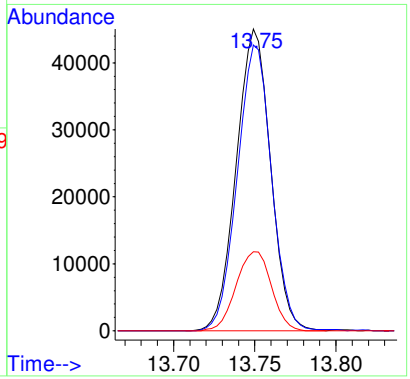


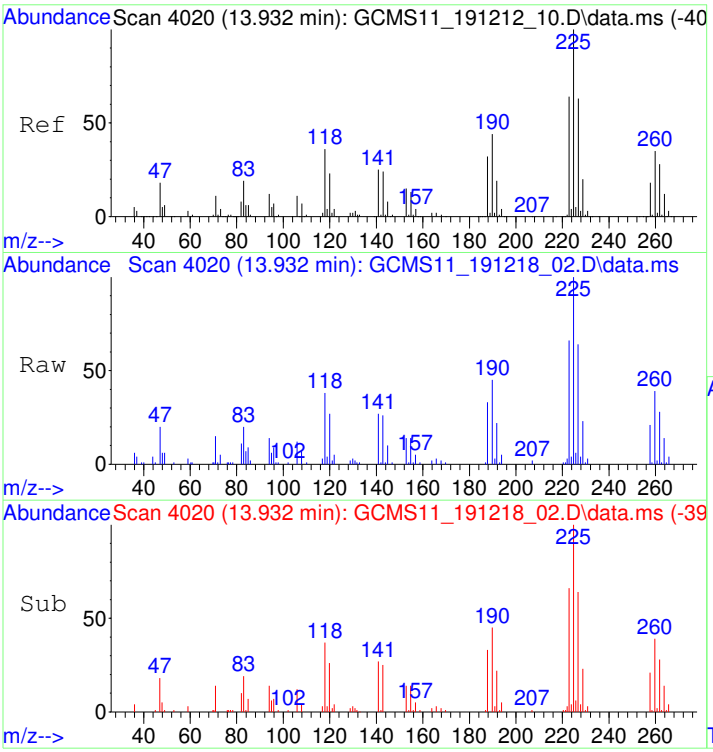


#73
1,2,4-Trichlorobenzene
Concen: 128.11 ng
RT: 13.75 min Scan# 3963
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:180 Resp: 66214

Ion	Ratio	Lower	Upper
180	100		
182	94.4	66.7	126.7
145	27.0	0.0	58.2

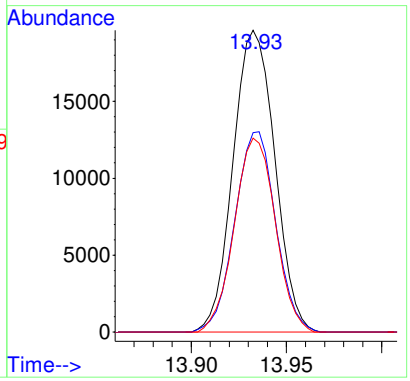


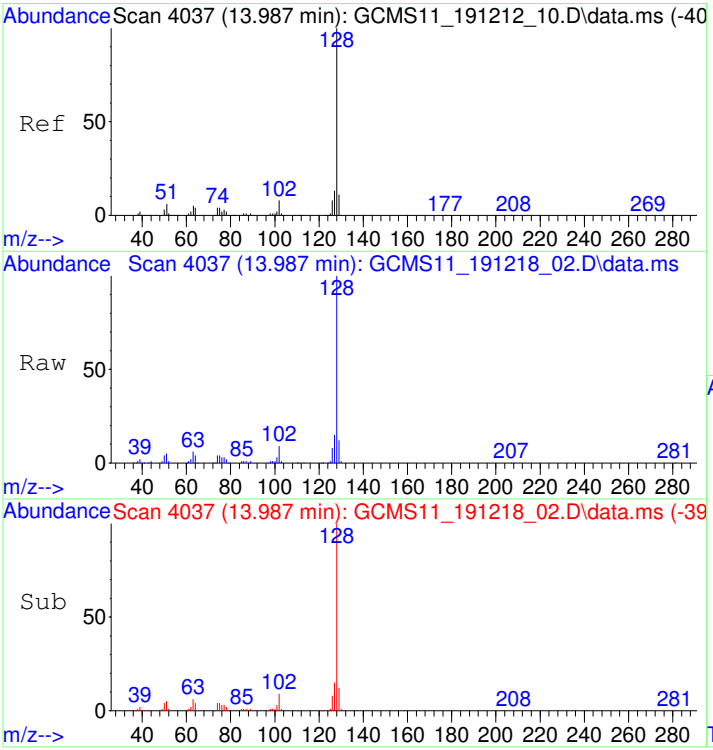


#74
Hexachlorobutadiene
Concen: 124.55 ng
RT: 13.93 min Scan# 4020
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:225 Resp: 29995

Ion	Ratio	Lower	Upper
225	100		
223	64.9	1242.7	1302.7#
227	62.9	19.6	79.6

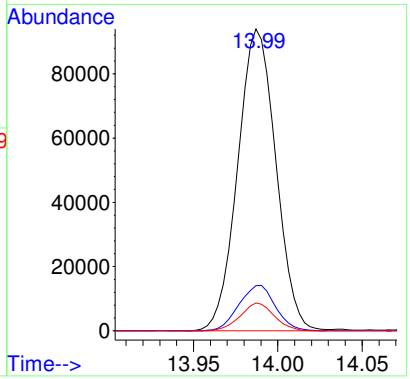


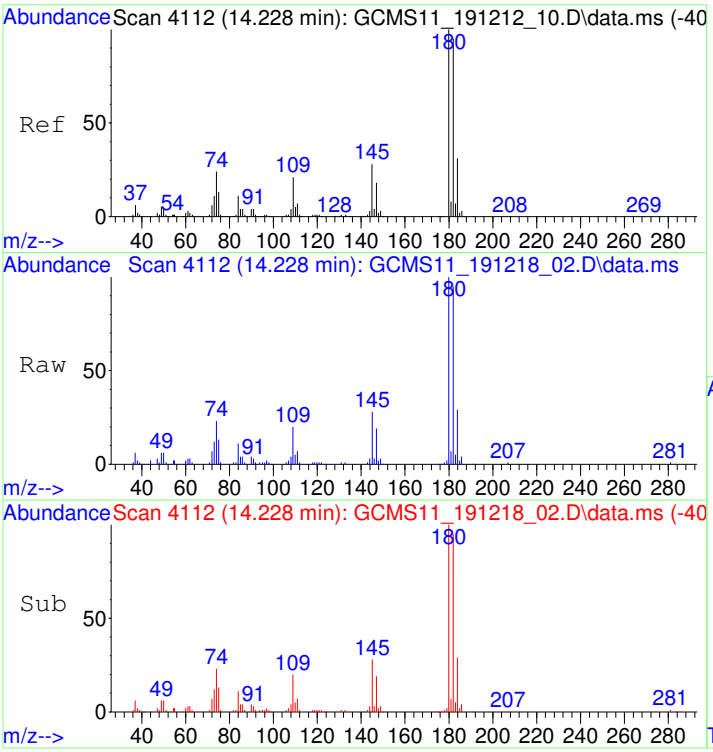


#75
Naphthalene
Concen: 111.34 ng
RT: 13.99 min Scan# 4037
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:128 Resp: 147371

Ion	Ratio	Lower	Upper
128	100		
127	14.4	0.0	43.5
102	8.2	0.0	37.4

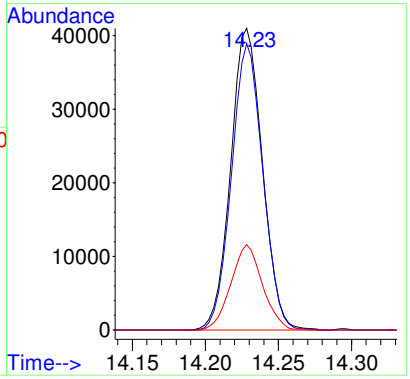




#76
1,2,3-Trichlorobenzene
Concen: 116.79 ng
RT: 14.23 min Scan# 4112
Delta R.T. 0.000 min
Lab File: GCMS11_191218_02.D
Acq: 18 Dec 2019 5:51 pm

Tgt Ion:180 Resp: 62093

Ion	Ratio	Lower	Upper
180	100		
182	93.2	66.7	126.7
145	28.2	0.0	58.4



Evaluate Continuing Calibration Report

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_37.D
Acq On : 17 Dec 2019 6:52 am
Operator : ko
Sample : B19L021-BSD1
Misc : LIMS 19L1101
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Dec 17 15:06:56 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE	50.000	50.000	0.0	77	0.00
2	TM	Dichlorodifluoromethane	125.000	119.163	4.7	67	0.00
3	TM	Chloromethane	125.000	113.000	9.6	66	0.00
4	M	Vinyl chloride	125.000	118.092	5.5	68	0.00
5	M	Bromomethane	125.000	97.409	22.1	59	0.00
6	M	Chloroethane	125.000	118.525	5.2	71	0.00
7	M	Trichlorofluoromethane	125.000	122.870	1.7	73	0.00
8	M	Acrolein	625.000	0.000	100.0#	0	-2.32#
9	M	1,1-Dichloroethene	125.000	107.761	13.8	69	0.00
10	M	Acetone	625.000	0.000	100.0#	0	0.03
11	M	Carbon disulfide	125.000	0.000	100.0#	0	-2.62#
12	M	Methylene chloride	125.000	109.490	12.4	72	0.00
13	M	Acrylonitrile	625.000	0.000	100.0#	0	-3.29#
14	M	trans-1,2-Dichloroethene	125.000	104.382	16.5	68	0.00
15	M	Methyl tert-butyl ether	125.000	0.000	100.0#	0	-3.34#
16	M	1,1-Dichloroethane	125.000	123.540	1.2	77	0.00
17	M	2,2-Dichloropropane	125.000	56.338	54.9#	35	0.00
18	M	cis-1,2-Dichloroethene	125.000	115.765	7.4	72	0.00
19	M	2-Butanone	625.000	0.000	100.0#	0	-4.86#
20	M	Bromochloromethane	125.000	114.447	8.4	71	0.00
21	M	Chloroform	125.000	123.334	1.3	76	0.00
22	S	DIBROMOFLUOROMETHANE	50.000	54.758	-9.5	84	0.00
23	M	1,1,1-Trichloroethane	125.000	115.812	7.4	72	0.00
24	M	Carbon tetrachloride	125.000	106.883	14.5	68	0.00
25	M	1,1-Dichloropropene	125.000	102.820	17.7	66	0.00
26	S	1,2-DICHLOROETHANE-D4	50.000	50.918	-1.8	77	0.00
27	M	Benzene	125.000	115.003	8.0	73	0.00
28	M	1,2-Dichloroethane	125.000	121.373	2.9	77	0.00
29	M	Trichloroethene	125.000	123.060	1.6	79	0.00
30	M	1,2-Dichloropropane	125.000	117.653	5.9	75	0.00
31	M	Dibromomethane	125.000	122.094	2.3	79	0.00
32	M	1,4-Dioxane	750.000	0.000	100.0#	0	-7.20#
33	M	Bromodichloromethane	125.000	119.622	4.3	75	0.00
34	M	2-Chloroethylvinyl ether	125.000	0.000	100.0#	0	-7.59#
35	M	cis-1,3-Dichloropropene	125.000	106.427	14.9	65	0.00
36	M	4-Methyl-2-pentanone	250.000	0.000	100.0#	0	-7.91#
37	S	TOLUENE-D8	50.000	50.853	-1.7	80	0.00
38	M	Toluene	125.000	109.390	12.5	72	0.00
39	I	CHLOROBENZENE-D5	50.000	50.000	0.0	79	0.00
40	M	trans-1,3-Dichloropropene	125.000	100.914	19.3	65	0.00
41	M	1,1,2-Trichloroethane	125.000	125.220	-0.2	83	0.00
42	M	Tetrachloroethene	125.000	106.924	14.5	68	0.00
43	M	1,3-Dichloropropane	125.000	120.385	3.7	79	0.00
44	M	2-Hexanone	250.000	0.000	100.0#	0	-8.76#
45	M	Dibromochloromethane	125.000	112.356	10.1	74	0.00
46	M	1,2-Dibromoethane (EDB)	125.000	115.637	7.5	76	0.00
47	M	Chlorobenzene	125.000	111.015	11.2	74	0.00
48	M	1,1,1,2-Tetrachloroethane	125.000	111.897	10.5	76	0.00
49	M	Ethylbenzene	125.000	105.141	15.9	69	0.00
50	M	m+p-Xylene	250.000	210.807	15.7	71	0.00
51	M	o-Xylene	125.000	108.010	13.6	74	0.00
52	M	Styrene	125.000	108.799	13.0	75	0.00
53	M	Bromoform	125.000	114.350	8.5	77	0.00

2,2-Dichloropropane did not meet %Dev criteria and has been flagged appropriately in the LIMS report.

All other analytes that exceed %Dev are not spiked in BS QC samples
-KO 12.23.19

Evaluate Continuing Calibration Report

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_37.D
Acq On : 17 Dec 2019 6:52 am
Operator : ko
Sample : B19L021-BSD1
Misc : LIMS 19L1101
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Dec 17 15:06:56 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
54	M	Isopropylbenzene	125.000	109.287	12.6	73	0.00
55	S	4-BROMOFLUOROBENZENE	50.000	51.981	-4.0	85	0.00
56	M	Bromobenzene	125.000	115.765	7.4	76	0.00
57	M	1,2,3-Trichloropropane	125.000	123.067	1.5	80	0.00
58	M	n-Propylbenzene	125.000	106.130	15.1	70	0.00
59	M	2-Chlorotoluene	125.000	110.111	11.9	73	0.00
60	M	1,3,5-Trimethylbenzene	125.000	104.852	16.1	71	0.00
61	M	4-Chlorotoluene	125.000	107.923	13.7	72	0.00
62	I	1,4-DICHLOROBENZENE-D4	50.000	50.000	0.0	80	0.00
63	M	1,1,2,2-Tetrachloroethane	125.000	119.468	4.4	76	0.00
64	M	tert-Butylbenzene	125.000	113.994	8.8	70	0.00
65	M	1,2,4-Trimethylbenzene	125.000	110.016	12.0	72	0.00
66	M	sec-Butylbenzene	125.000	110.995	11.2	70	0.00
67	M	1,3-Dichlorobenzene	125.000	115.052	8.0	76	0.00
68	M	p-Isopropyltoluene	125.000	104.802	16.2	68	0.00
69	M	1,4-Dichlorobenzene	125.000	115.451	7.6	73	0.00
70	M	1,2-Dichlorobenzene	125.000	117.422	6.1	78	0.00
71	M	n-Butylbenzene	125.000	103.982	16.8	67	0.00
72	M	1,2-Dibromo-3-chloropropane	125.000	119.626	4.3	80	0.00
73	M	1,2,4-Trichlorobenzene	125.000	109.867	12.1	71	0.00
74	M	Hexachlorobutadiene	125.000	106.268	15.0	64	0.00
75	M	Naphthalene	125.000	123.351	1.3	80	0.00
76	M	1,2,3-Trichlorobenzene	125.000	104.603	16.3	74	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_37.D
Acq On : 17 Dec 2019 6:52 am
Operator : ko
Sample : B19L021-BSD1
Misc : LIMS 19L1101
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Dec 17 15:06:56 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.26	96	55475	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	21596	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	23722	50.00	ng		0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.46	113	15954	54.76	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.86	65	17680	50.92	ng		0.00
37) TOLUENE-D8	7.99	98	55482	50.85	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	20354	51.98	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.13	85	30740	119.16	ng		99
3) Chloromethane	1.27	50	26630	113.00	ng		97
4) Vinyl chloride	1.35	62	35276	118.09	ng		96
5) Bromomethane	1.61	96	24282	97.41	ng		99
6) Chloroethane	1.70	64	25883	118.53	ng		99
7) Trichlorofluoromethane	1.93	101	47338	122.87	ng		95
9) 1,1-Dichloroethene	2.42	96	31070	107.76	ng		98
12) Methylene chloride	2.97	84	38173	109.49	ng		99
14) trans-1,2-Dichloroethene	3.32	96	33881	104.38	ng		99
16) 1,1-Dichloroethane	3.93	63	66219	123.54	ng		97
17) 2,2-Dichloropropane	4.78	77	24957	56.34	ng		96
18) cis-1,2-Dichloroethene	4.80	96	40555	115.76	ng		96
20) Bromochloromethane	5.12	128	21792	114.45	ng		96
21) Chloroform	5.26	83	65903	123.33	ng		98
23) 1,1,1-Trichloroethane	5.45	97	56295	115.81	ng		100
24) Carbon tetrachloride	5.65	117	46680	106.88	ng		97
25) 1,1-Dichloropropene	5.67	75	40750	102.82	ng		99
27) Benzene	5.91	78	154646	115.00	ng		99
28) 1,2-Dichloroethane	5.95	62	54853	121.37	ng		97
29) Trichloroethene	6.68	95	39051	123.06	ng		94
30) 1,2-Dichloropropane	6.92	63	35081	117.65	ng		99
31) Dibromomethane	7.04	93	29636	122.09	ng		95
33) Bromodichloromethane	7.24	83	50342	119.62	ng		99
35) cis-1,3-Dichloropropene	7.72	75	49631	106.43	ng		99
38) Toluene	8.05	92	82288	109.39	ng		97
40) trans-1,3-Dichloropropene	8.31	75	47516	100.91	ng		96
41) 1,1,2-Trichloroethane	8.49	83	33906	125.22	ng		94
42) Tetrachloroethene	8.61	164	29068	106.92	ng		98
43) 1,3-Dichloropropane	8.65	76	63137	120.38	ng		99
45) Dibromochloromethane	8.87	129	45159	112.36	ng		99
46) 1,2-Dibromoethane (EDB)	8.96	107	39699	115.64	ng		95
47) Chlorobenzene	9.47	112	102978	111.02	ng		99
48) 1,1,1,2-Tetrachloroethane	9.56	131	39974	111.90	ng		97
49) Ethylbenzene	9.59	106	50264	105.14	ng		95
50) m+p-Xylene	9.72	106	127500	210.81	ng		99
51) o-Xylene	10.11	106	63109	108.01	ng		97
52) Styrene	10.12	103	60129	108.80	ng		98
53) Bromoform	10.29	173	33276	114.35	ng	#	97
54) Isopropylbenzene	10.48	105	168583	109.29	ng		98
56) Bromobenzene	10.76	156	46887	115.77	ng		98
57) 1,2,3-Trichloropropane	10.81	75	43671	123.07	ng		97
58) n-Propylbenzene	10.89	91	184118	106.13	ng		99
59) 2-Chlorotoluene	10.96	91	111632	110.11	ng		98
60) 1,3,5-Trimethylbenzene	11.07	105	131736	104.85	ng		99
61) 4-Chlorotoluene	11.07	91	127645	107.92	ng		99
63) 1,1,2,2-Tetrachloroethane	10.78	83	50861	119.47	ng		99

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_37.D
Acq On : 17 Dec 2019 6:52 am
Operator : ko
Sample : B19L021-BSD1
Misc : LIMS 19L1101
ALS Vial : 30 Sample Multiplier: 1

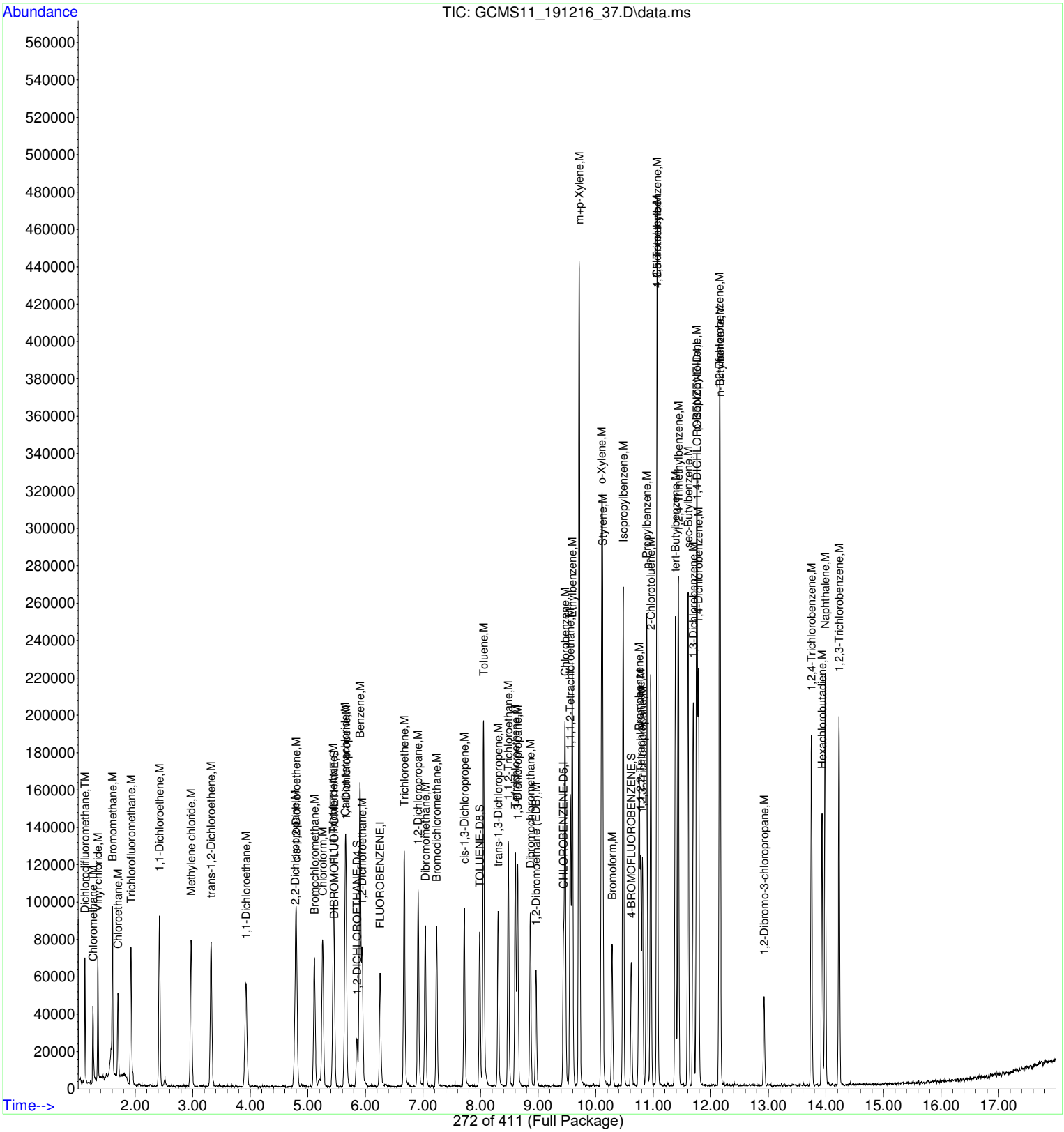
Quant Time: Dec 17 15:06:56 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
64)	tert-Butylbenzene	11.39	119	119327	113.99	ng		99
65)	1,2,4-Trimethylbenzene	11.44	105	140841	110.02	ng		97
66)	sec-Butylbenzene	11.61	105	174362	111.00	ng		99
67)	1,3-Dichlorobenzene	11.70	146	84271	115.05	ng		97
68)	p-Isopropyltoluene	11.76	119	144147	104.80	ng		99
69)	1,4-Dichlorobenzene	11.79	146	86079	115.45	ng		99
70)	1,2-Dichlorobenzene	12.15	146	92993	117.42	ng		96
71)	n-Butylbenzene	12.16	91	127167	103.98	ng		98
72)	1,2-Dibromo-3-chloropr...	12.93	155	9728	119.63	ng		97
73)	1,2,4-Trichlorobenzene	13.75	180	58685	109.87	ng		98
74)	Hexachlorobutadiene	13.93	225	26449	106.27	ng	#	1
75)	Naphthalene	13.99	128	168725	123.35	ng		99
76)	1,2,3-Trichlorobenzene	14.23	180	57666	104.60	ng		98

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

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_37.D
Acq On : 17 Dec 2019 6:52 am
Operator : ko
Sample : B19L021-BSD1
Misc : LIMS 19L1101
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Dec 17 15:06:56 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration



272 of 411 (Full Package)

Evaluate Continuing Calibration Report

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_10.D
Acq On : 18 Dec 2019 9:38 pm
Operator : ko
Sample : B19L021-BSD2
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 19 08:26:05 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE	50.000	50.000	0.0	68	0.00
2	TM	Dichlorodifluoromethane	125.000	112.292	10.2	56	0.00
3	TM	Chloromethane	125.000	129.019	-3.2	67	0.00
4	M	Vinyl chloride	125.000	130.472	-4.4	67	0.00
5	M	Bromomethane	125.000	95.611	23.5	51	0.00
6	M	Chloroethane	125.000	124.555	0.4	66	0.00
7	M	Trichlorofluoromethane	125.000	128.719	-3.0	67	0.00
8	M	Acrolein	625.000	0.000	100.0#	0	0.00
9	M	1,1-Dichloroethene	125.000	126.124	-0.9	71	0.00
10	M	Acetone	625.000	0.000	100.0#	0	0.03
11	M	Carbon disulfide	125.000	0.000	100.0#	0	-2.62#
12	M	Methylene chloride	125.000	125.611	-0.5	73	0.00
13	M	Acrylonitrile	625.000	0.000	100.0#	0	-3.29#
14	M	trans-1,2-Dichloroethene	125.000	127.687	-2.1	74	0.00
15	M	Methyl tert-butyl ether	125.000	0.000	100.0#	0	-0.05
16	M	1,1-Dichloroethane	125.000	137.526	-10.0	76	0.00
17	M	2,2-Dichloropropane	125.000	115.610	7.5	63	0.00
18	M	cis-1,2-Dichloroethene	125.000	131.124	-4.9	72	0.00
19	M	2-Butanone	625.000	0.000	100.0#	0	0.03
20	M	Bromochloromethane	125.000	129.001	-3.2	71	0.00
21	M	Chloroform	125.000	133.762	-7.0	73	0.00
22	S	DIBROMOFLUOROMETHANE	50.000	54.015	-8.0	74	0.00
23	M	1,1,1-Trichloroethane	125.000	129.931	-3.9	72	0.00
24	M	Carbon tetrachloride	125.000	118.456	5.2	67	0.00
25	M	1,1-Dichloropropene	125.000	124.520	0.4	70	0.00
26	S	1,2-DICHLOROETHANE-D4	50.000	49.532	0.9	66	0.00
27	M	Benzene	125.000	129.379	-3.5	72	0.00
28	M	1,2-Dichloroethane	125.000	124.513	0.4	70	0.00
29	M	Trichloroethene	125.000	129.893	-3.9	74	0.00
30	M	1,2-Dichloropropane	125.000	128.930	-3.1	73	0.00
31	M	Dibromomethane	125.000	128.855	-3.1	73	0.00
32	M	1,4-Dioxane	750.000	0.000	100.0#	0	-7.20#
33	M	Bromodichloromethane	125.000	132.343	-5.9	73	0.00
34	M	2-Chloroethylvinyl ether	125.000	0.000	100.0#	0	0.00
35	M	cis-1,3-Dichloropropene	125.000	125.325	-0.3	68	0.00
36	M	4-Methyl-2-pentanone	250.000	0.000	100.0#	0	0.04
37	S	TOLUENE-D8	50.000	50.301	-0.6	70	0.00
38	M	Toluene	125.000	124.597	0.3	72	0.00
39	I	CHLOROBENZENE-D5	50.000	50.000	0.0	71	0.00
40	M	trans-1,3-Dichloropropene	125.000	112.603	9.9	66	0.00
41	M	1,1,2-Trichloroethane	125.000	119.868	4.1	72	0.00
42	M	Tetrachloroethene	125.000	117.941	5.6	68	0.00
43	M	1,3-Dichloropropane	125.000	127.433	-1.9	76	0.00
44	M	2-Hexanone	250.000	0.000	100.0#	0	-8.76#
45	M	Dibromochloromethane	125.000	117.000	6.4	70	0.00
46	M	1,2-Dibromoethane (EDB)	125.000	116.517	6.8	69	0.00
47	M	Chlorobenzene	125.000	119.115	4.7	72	0.00

48	M	1,1,1,2-Tetrachloroethane	125.000	114.889	8.1	70	0.00
49	M	Ethylbenzene	125.000	114.272	8.6	68	0.00
50	M	m+p-Xylene	250.000	237.208	5.1	72	0.00
51	M	o-Xylene	125.000	115.302	7.8	72	0.00
52	M	Styrene	125.000	119.921	4.1	75	0.00
53	M	Bromoform	125.000	114.490	8.4	70	0.00
54	M	Isopropylbenzene	125.000	118.439	5.2	72	0.00
55	S	4-BROMOFLUOROBENZENE	50.000	48.712	2.6	72	0.00
56	M	Bromobenzene	125.000	122.585	1.9	73	0.00
57	M	1,2,3-Trichloropropane	125.000	127.046	-1.6	75	0.00
58	M	n-Propylbenzene	125.000	121.764	2.6	73	0.00
59	M	2-Chlorotoluene	125.000	123.184	1.5	74	0.00
60	M	1,3,5-Trimethylbenzene	125.000	115.036	8.0	71	0.00
61	M	4-Chlorotoluene	125.000	120.759	3.4	73	0.00
62	I	1,4-DICHLOROBENZENE-D4	50.000	50.000	0.0	69	0.00
63	M	1,1,2,2-Tetrachloroethane	125.000	133.980	-7.2	73	0.00
64	M	tert-Butylbenzene	125.000	132.130	-5.7	69	0.00
65	M	1,2,4-Trimethylbenzene	125.000	128.510	-2.8	72	0.00
66	M	sec-Butylbenzene	125.000	131.137	-4.9	71	0.00
67	M	1,3-Dichlorobenzene	125.000	134.016	-7.2	76	0.00
68	M	p-Isopropyltoluene	125.000	125.045	-0.0	69	0.00
69	M	1,4-Dichlorobenzene	125.000	133.470	-6.8	72	0.00
70	M	1,2-Dichlorobenzene	125.000	130.973	-4.8	75	0.00
71	M	n-Butylbenzene	125.000	126.640	-1.3	70	0.00
72	M	1,2-Dibromo-3-chloropropane	125.000	126.427	-1.1	72	0.00
73	M	1,2,4-Trichlorobenzene	125.000	127.317	-1.9	70	0.00
74	M	Hexachlorobutadiene	125.000	120.769	3.4	62	0.00
75	M	Naphthalene	125.000	127.374	-1.9	70	0.00
76	M	1,2,3-Trichlorobenzene	125.000	125.272	-0.2	75	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

GCMS11_1912..._FULL LIST.M Fri Dec 20 07:50:09 2019

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_10.D
Acq On : 18 Dec 2019 9:38 pm
Operator : ko
Sample : B19L021-BSD2
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 19 08:26:05 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.26	96	49047	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	19566	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	20307	50.00	ng		0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.46	113	13914	54.02	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	15206	49.53	ng		0.00
37) TOLUENE-D8	7.99	98	48521	50.30	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	17281	48.71	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.13	85	25611	112.29	ng		98
3) Chloromethane	1.26	50	26882	129.02	ng		97
4) Vinyl chloride	1.35	62	34458	130.47	ng		98
5) Bromomethane	1.60	96	21072	95.61	ng		95
6) Chloroethane	1.70	64	24048	124.55	ng		98
7) Trichlorofluoromethane	1.93	101	43845	128.72	ng		94
9) 1,1-Dichloroethene	2.42	96	32151	126.12	ng		94
12) Methylene chloride	2.97	84	38719	125.61	ng		99
14) trans-1,2-Dichloroethene	3.32	96	36643	127.69	ng		100
16) 1,1-Dichloroethane	3.92	63	65174	137.53	ng		99
17) 2,2-Dichloropropane	4.78	77	45279	115.61	ng		98
18) cis-1,2-Dichloroethene	4.80	96	40613	131.12	ng		97
20) Bromochloromethane	5.11	128	21717	129.00	ng		94
21) Chloroform	5.26	83	63193	133.76	ng		99
23) 1,1,1-Trichloroethane	5.44	97	55840	129.93	ng		99
24) Carbon tetrachloride	5.65	117	45740	118.46	ng		96
25) 1,1-Dichloropropene	5.66	75	43632	124.52	ng		98
27) Benzene	5.90	78	153818	129.38	ng		99
28) 1,2-Dichloroethane	5.95	62	49752	124.51	ng		92
29) Trichloroethene	6.67	95	36443	129.89	ng		95
30) 1,2-Dichloropropane	6.92	63	33989	128.93	ng		99
31) Dibromomethane	7.04	93	27653	128.86	ng		95
33) Bromodichloromethane	7.24	83	49242	132.34	ng		98
35) cis-1,3-Dichloropropene	7.72	75	51672	125.33	ng		98
38) Toluene	8.05	92	82867	124.60	ng		99
40) trans-1,3-Dichloropropene	8.31	75	48036	112.60	ng		99
41) 1,1,2-Trichloroethane	8.48	83	29406	119.87	ng		98
42) Tetrachloroethene	8.61	164	29049	117.94	ng		98
43) 1,3-Dichloropropane	8.65	76	60551	127.43	ng		97
45) Dibromochloromethane	8.87	129	42605	117.00	ng		97
46) 1,2-Dibromoethane (EDB)	8.96	107	36241	116.52	ng		94
47) Chlorobenzene	9.47	112	100105	119.11	ng		99
48) 1,1,1,2-Tetrachloroethane	9.56	131	37185	114.89	ng		97
49) Ethylbenzene	9.59	106	49494	114.27	ng		91
50) m+p-Xylene	9.71	106	129982	237.21	ng		99
51) o-Xylene	10.11	106	61037	115.30	ng		100
52) Styrene	10.12	103	60046	119.92	ng		96
53) Bromoform	10.29	173	30185	114.49	ng	#	97
54) Isopropylbenzene	10.48	105	165527	118.44	ng		97
56) Bromobenzene	10.76	156	44982	122.58	ng		99
57) 1,2,3-Trichloropropane	10.81	75	40845	127.05	ng		97
58) n-Propylbenzene	10.89	91	191384	121.76	ng		98
59) 2-Chlorotoluene	10.96	91	113146	123.18	ng		99
60) 1,3,5-Trimethylbenzene	11.07	105	130946	115.04	ng		98
61) 4-Chlorotoluene	11.07	91	129401	120.76	ng		97
63) 1,1,2,2-Tetrachloroethane	10.78	83	48828	133.98	ng		99

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_10.D
Acq On : 18 Dec 2019 9:38 pm
Operator : ko
Sample : B19L021-BSD2
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 8 Sample Multiplier: 1

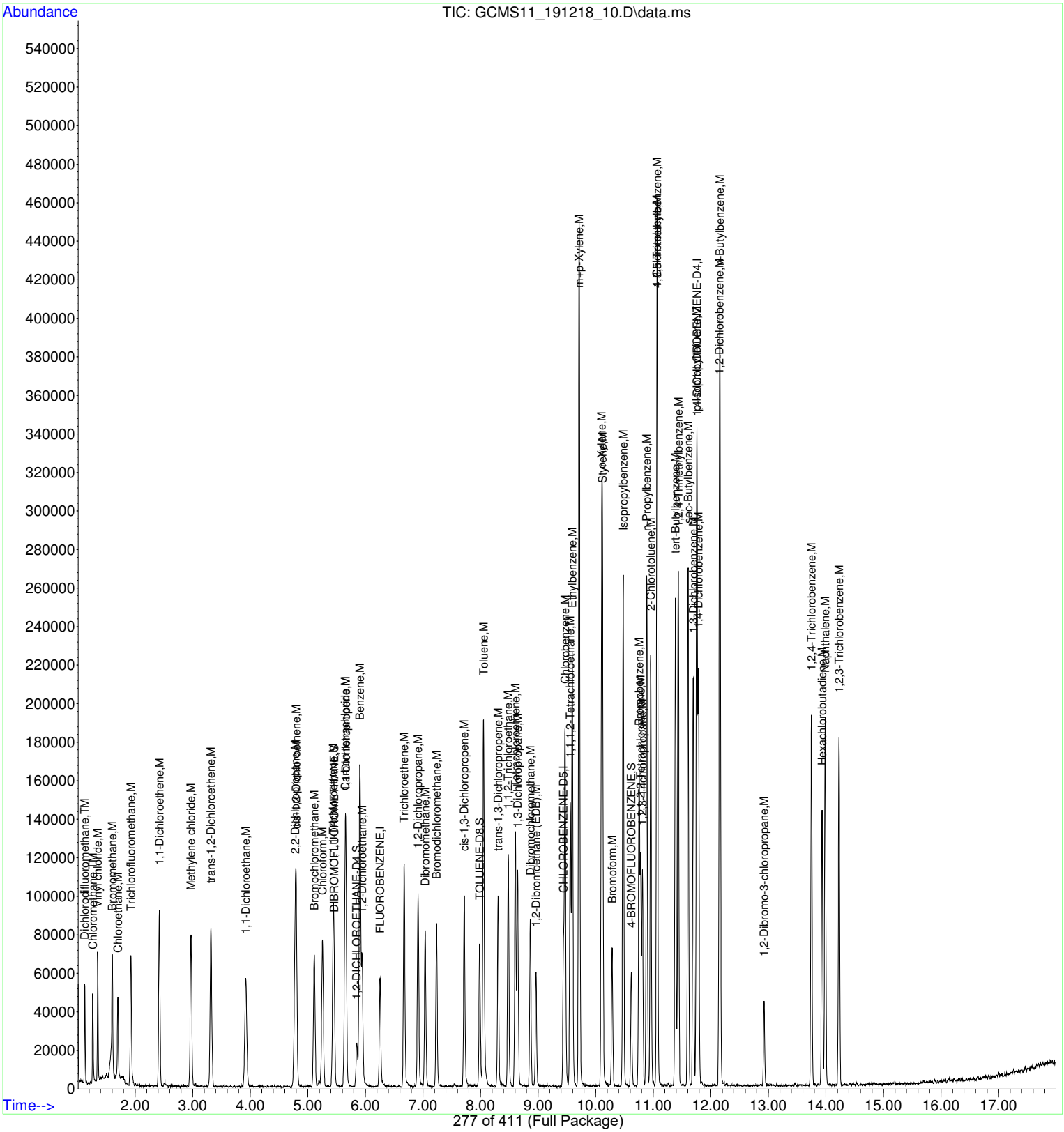
Quant Time: Dec 19 08:26:05 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

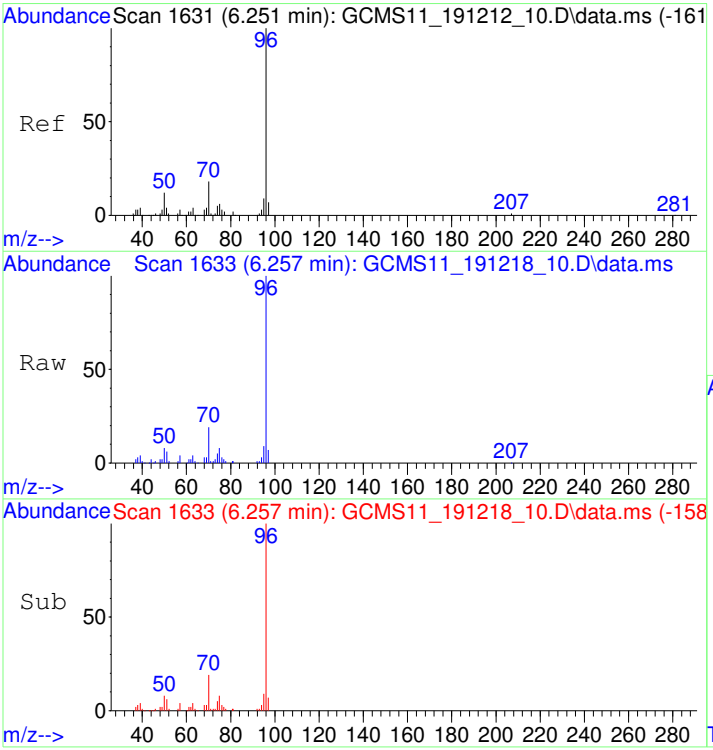
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
64) tert-Butylbenzene	11.39	119	118400	132.13	ng		98
65) 1,2,4-Trimethylbenzene	11.44	105	140833	128.51	ng		97
66) sec-Butylbenzene	11.61	105	176347	131.14	ng		98
67) 1,3-Dichlorobenzene	11.70	146	84030	134.02	ng		96
68) p-Isopropyltoluene	11.76	119	147230	125.04	ng		99
69) 1,4-Dichlorobenzene	11.79	146	85188	133.47	ng		98
70) 1,2-Dichlorobenzene	12.15	146	88793	130.97	ng		98
71) n-Butylbenzene	12.16	91	132581	126.64	ng		99
72) 1,2-Dibromo-3-chloropr...	12.93	155	8801	126.43	ng		93
73) 1,2,4-Trichlorobenzene	13.75	180	58216	127.32	ng		97
74) Hexachlorobutadiene	13.93	225	25731	120.77	ng	#	1
75) Naphthalene	13.99	128	149147	127.37	ng		99
76) 1,2,3-Trichlorobenzene	14.23	180	58786	125.27	ng		96

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

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_10.D
Acq On : 18 Dec 2019 9:38 pm
Operator : ko
Sample : B19L021-BSD2
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 19 08:26:05 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

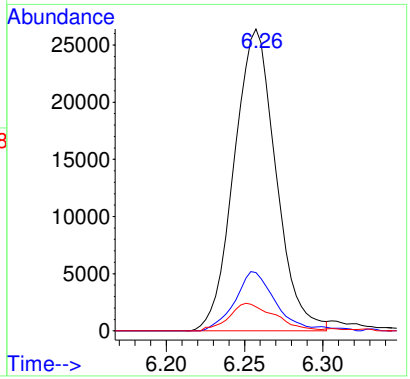


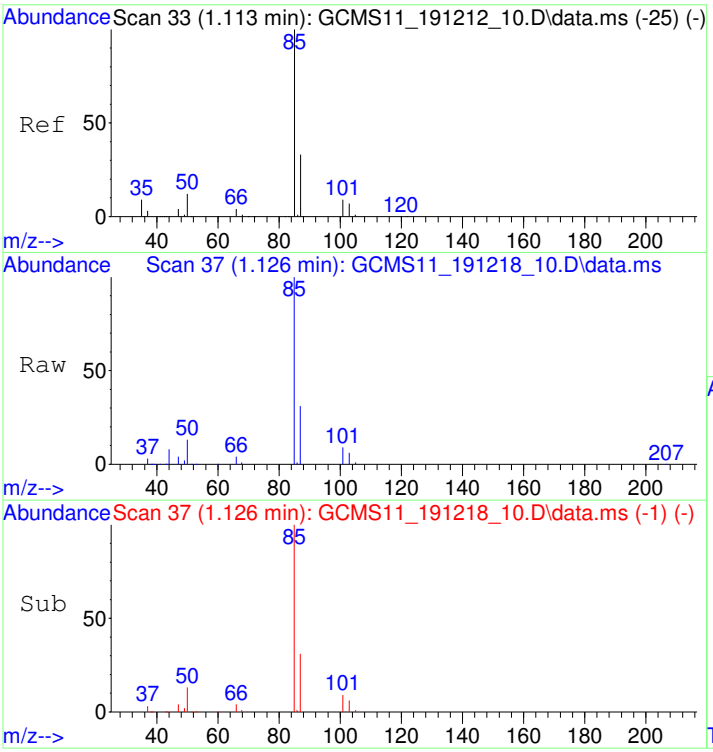


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.26 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 96 Resp: 49047

Ion	Ratio	Lower	Upper
96	100		
70	19.4	0.0	48.3
50	10.0	0.0	39.5

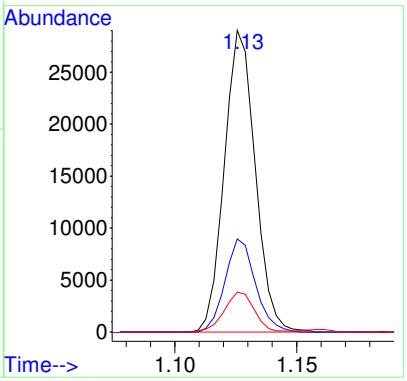


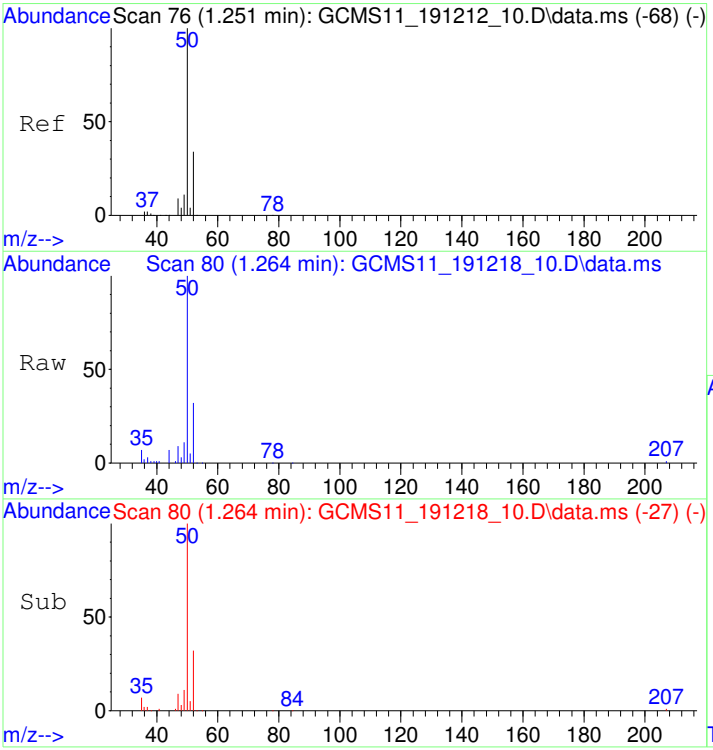


#2
Dichlorodifluoromethane
Concen: 112.29 ng
RT: 1.13 min Scan# 37
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 85 Resp: 25611

Ion	Ratio	Lower	Upper
85	100		
87	30.4	1.8	61.8
50	13.0	0.0	42.2

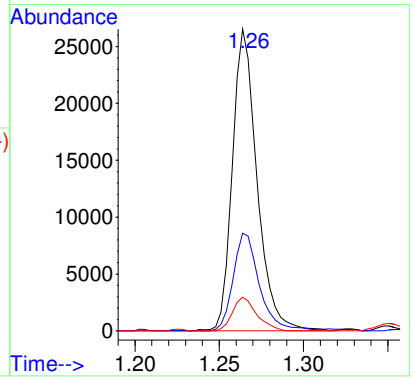


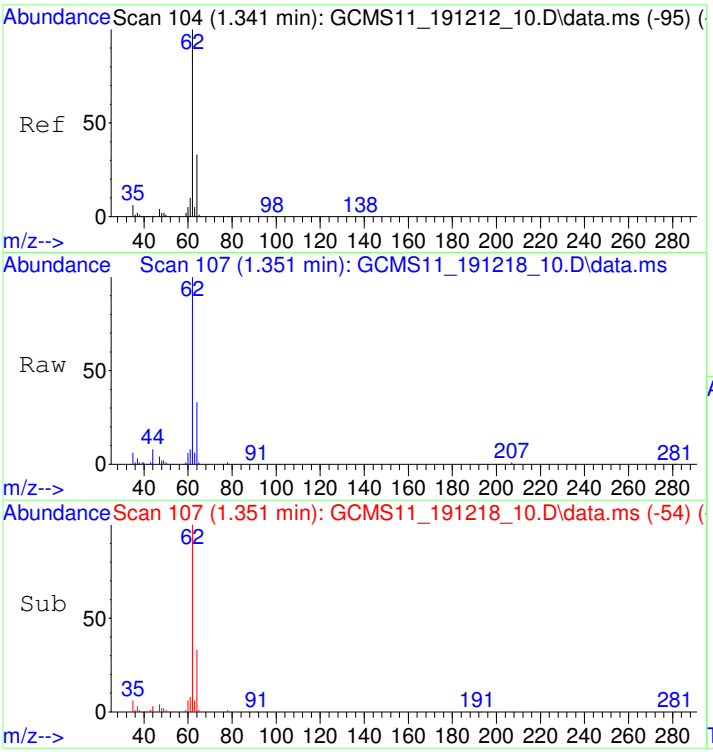


#3
Chloromethane
Concen: 129.02 ng
RT: 1.26 min Scan# 80
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 50 Resp: 26882

Ion	Ratio	Lower	Upper
50	100		
52	34.3	2.0	62.0
49	10.9	0.0	40.7

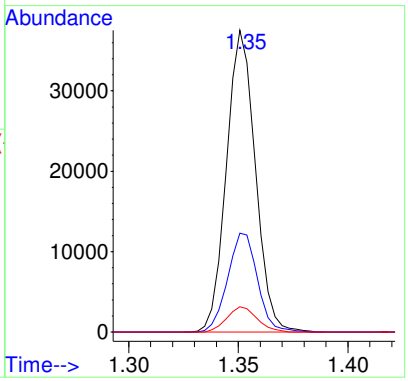


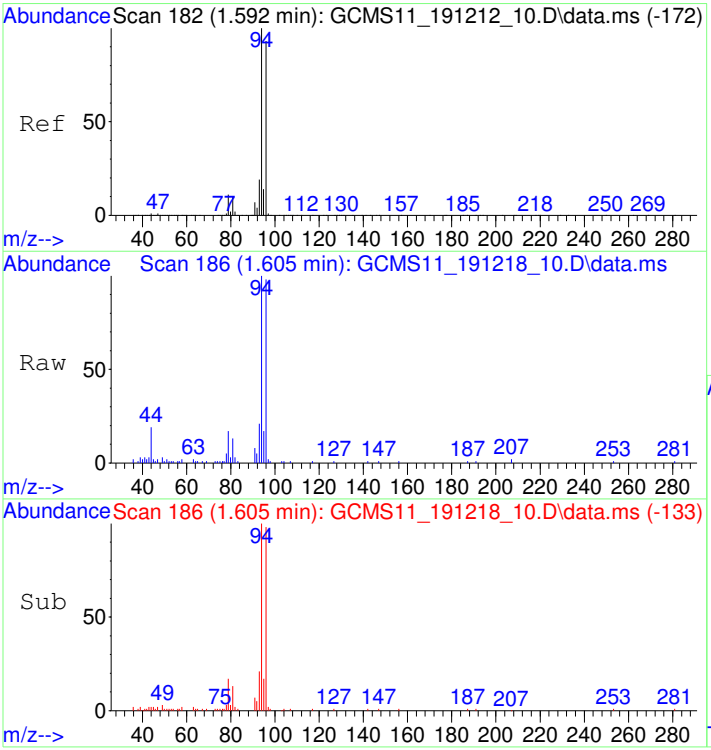


#4
Vinyl chloride
Concen: 130.47 ng
RT: 1.35 min Scan# 107
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 62 Resp: 34458

Ion	Ratio	Lower	Upper
62	100		
64	33.8	2.7	62.7
61	8.8	0.0	39.4

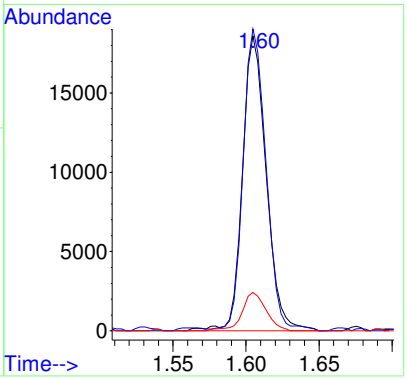


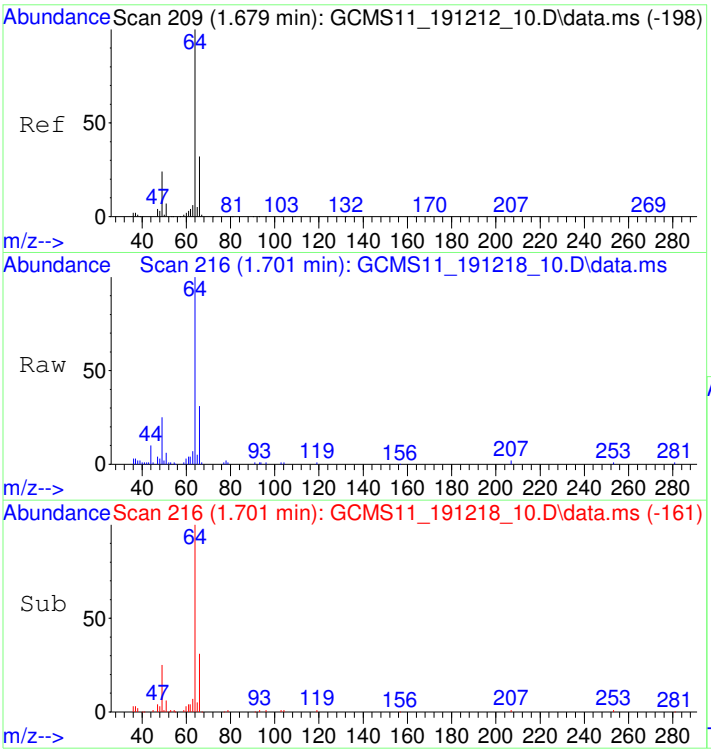


#5
Bromomethane
Concen: 95.61 ng
RT: 1.60 min Scan# 186
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 96 Resp: 21072

Ion	Ratio	Lower	Upper
96	100		
94	99.0	74.8	134.8
81	13.2	0.0	42.0

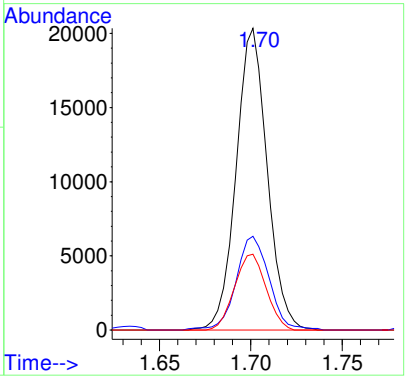


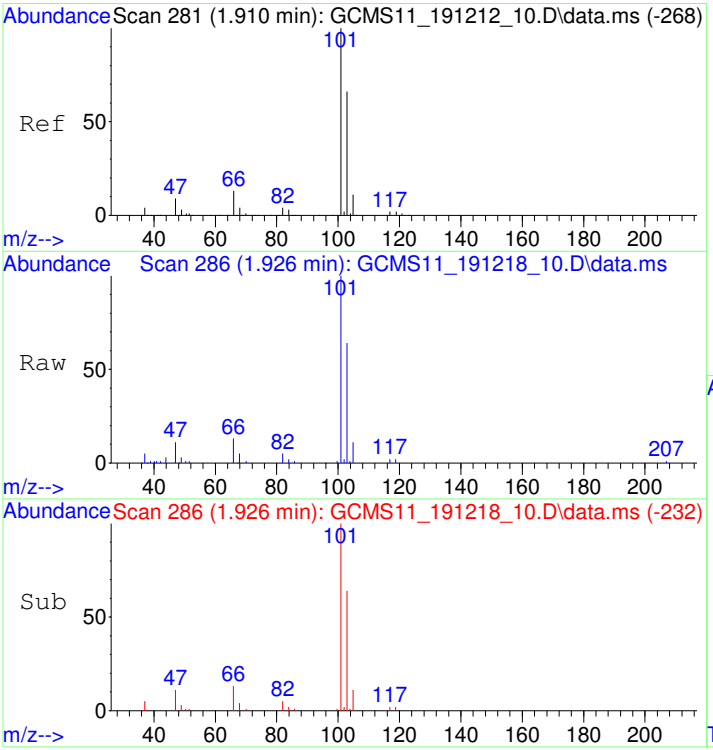


#6
Chloroethane
Concen: 124.55 ng
RT: 1.70 min Scan# 216
Delta R.T. 0.006 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 64 Resp: 24048

Ion	Ratio	Lower	Upper
64	100		
66	33.1	3.3	63.3
49	25.6	0.0	53.3

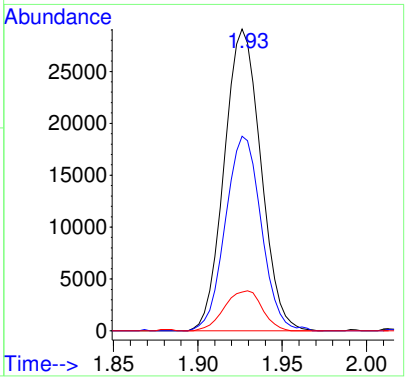


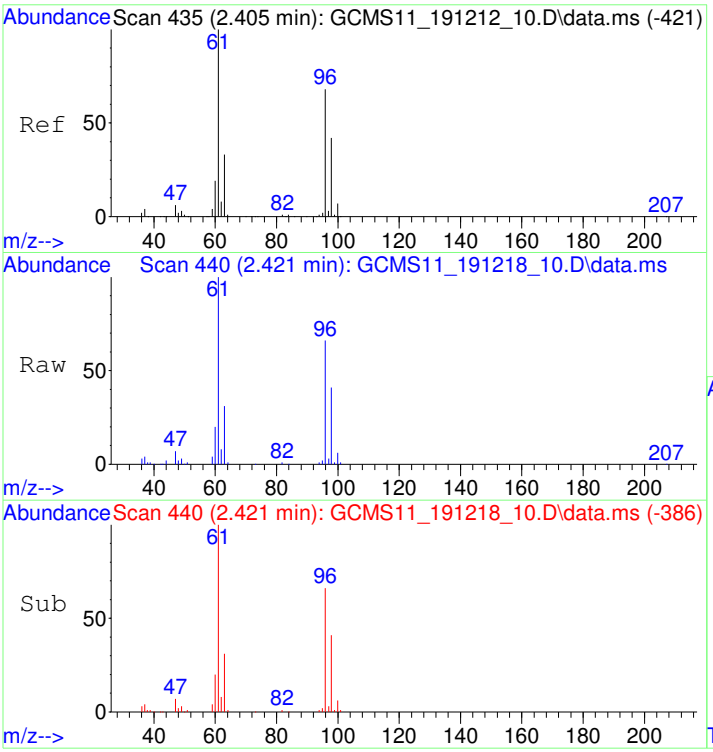


#7
Trichlorofluoromethane
Concen: 128.72 ng
RT: 1.93 min Scan# 286
Delta R.T. 0.003 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:101 Resp: 43845

Ion	Ratio	Lower	Upper
101	100		
103	63.2	38.4	98.4
66	13.7	0.0	43.0

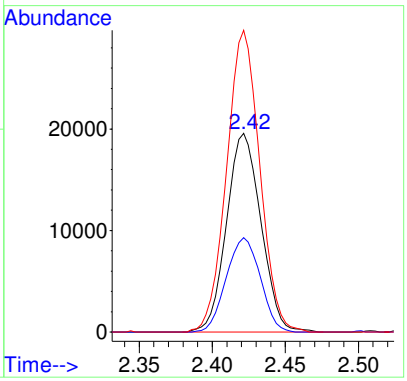


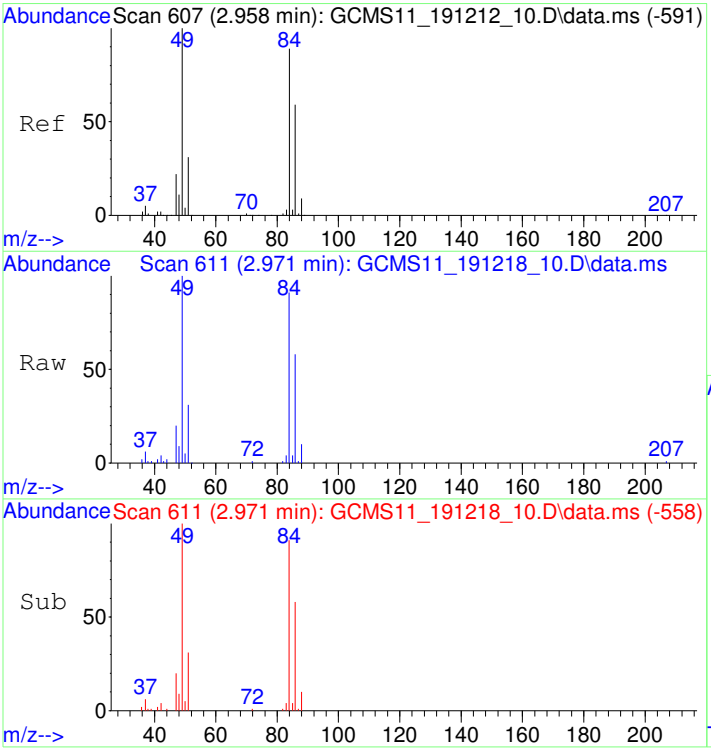


#9
1,1-Dichloroethene
Concen: 126.12 ng
RT: 2.42 min Scan# 440
Delta R.T. 0.003 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 96 Resp: 32151

Ion	Ratio	Lower	Upper
96	100		
63	46.9	20.7	80.7
61	146.3	123.9	183.9

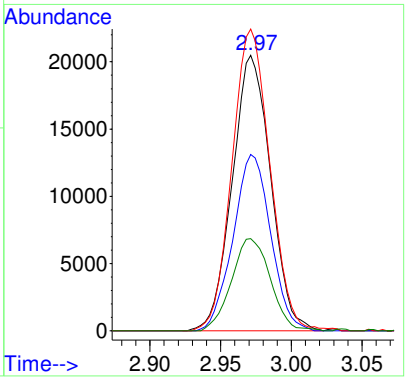


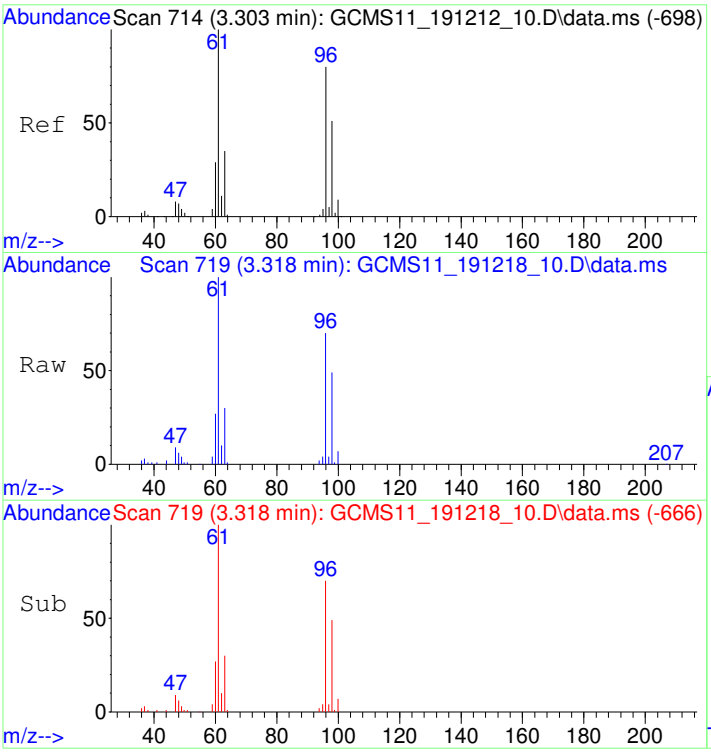


#12
Methylene chloride
Concen: 125.61 ng
RT: 2.97 min Scan# 611
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 84 Resp: 38719

Ion	Ratio	Lower	Upper
84	100		
86	62.6	35.2	95.2
49	108.3	78.3	138.3
51	33.9	4.0	64.0

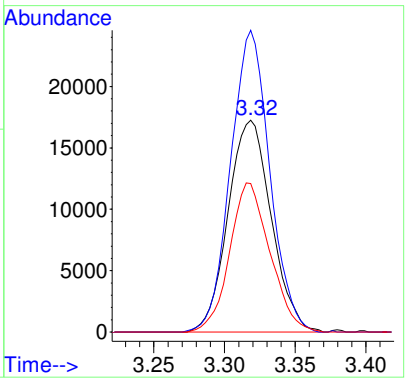


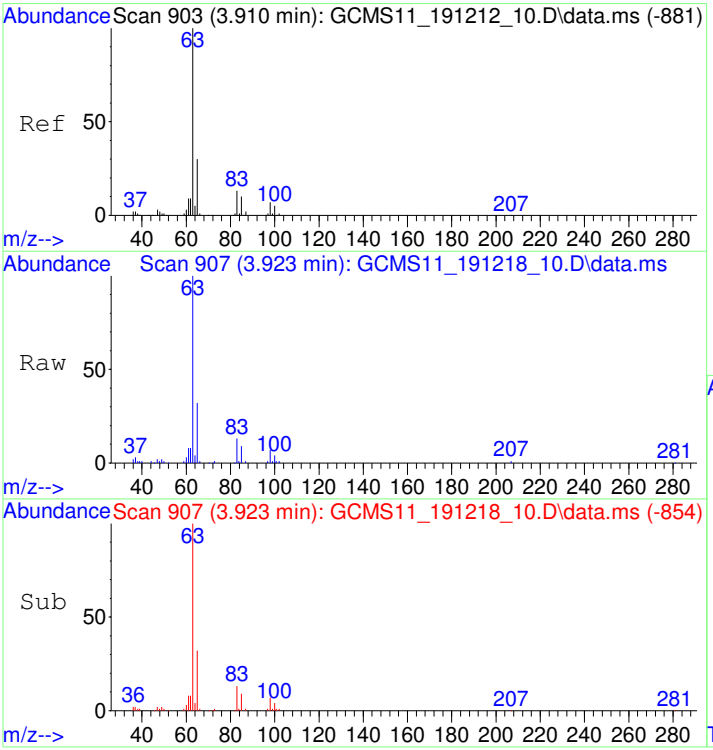


#14
trans-1,2-Dichloroethene
Concen: 127.69 ng
RT: 3.32 min Scan# 719
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 96 Resp: 36643

Ion	Ratio	Lower	Upper
96	100		
61	129.3	99.6	159.6
98	65.7	35.3	95.3

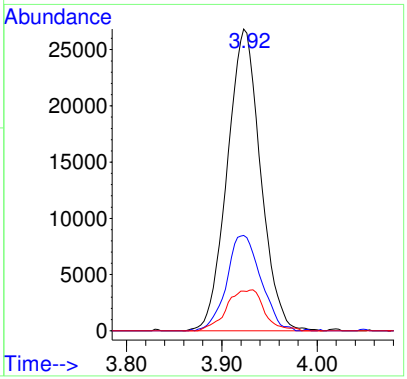


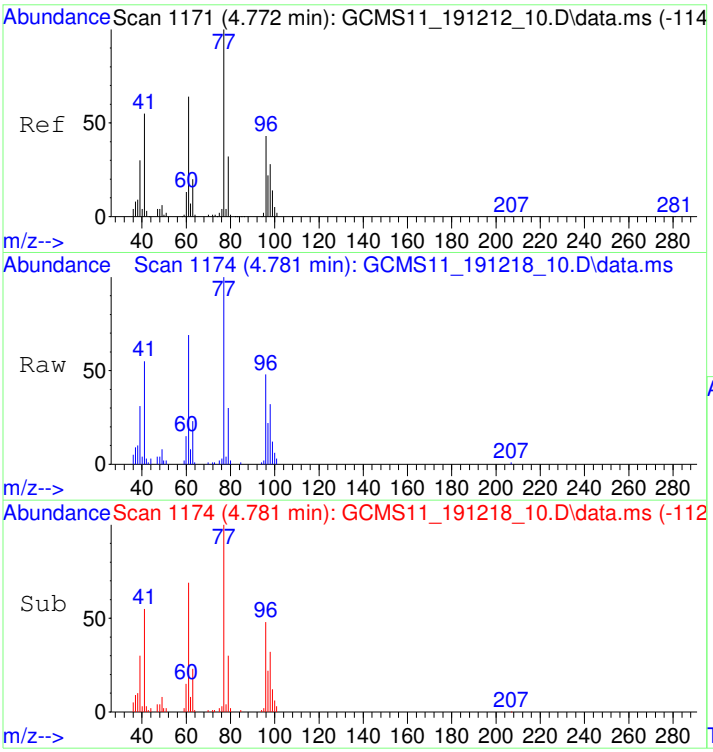


#16
1,1-Dichloroethane
Concen: 137.53 ng
RT: 3.92 min Scan# 907
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 63 Resp: 65174

Ion	Ratio	Lower	Upper
63	100		
65	32.5	2.8	62.8
83	15.3	0.0	44.3

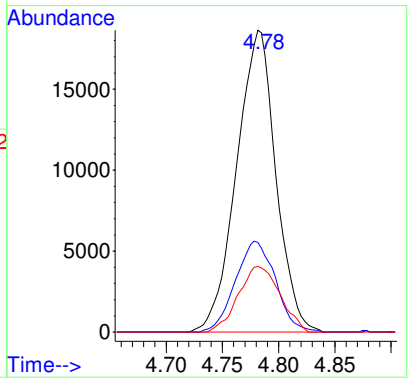


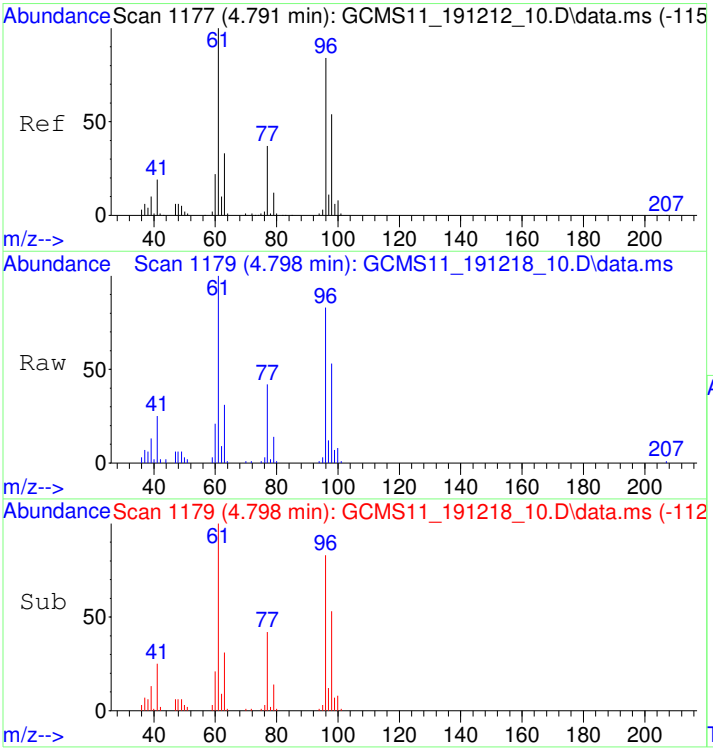


#17
2,2-Dichloropropane
Concen: 115.61 ng
RT: 4.78 min Scan# 1174
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 77 Resp: 45279

Ion	Ratio	Lower	Upper
77	100		
79	30.7	3.0	63.0
97	23.1	0.0	53.2

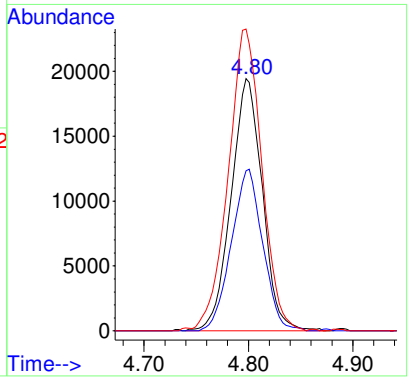


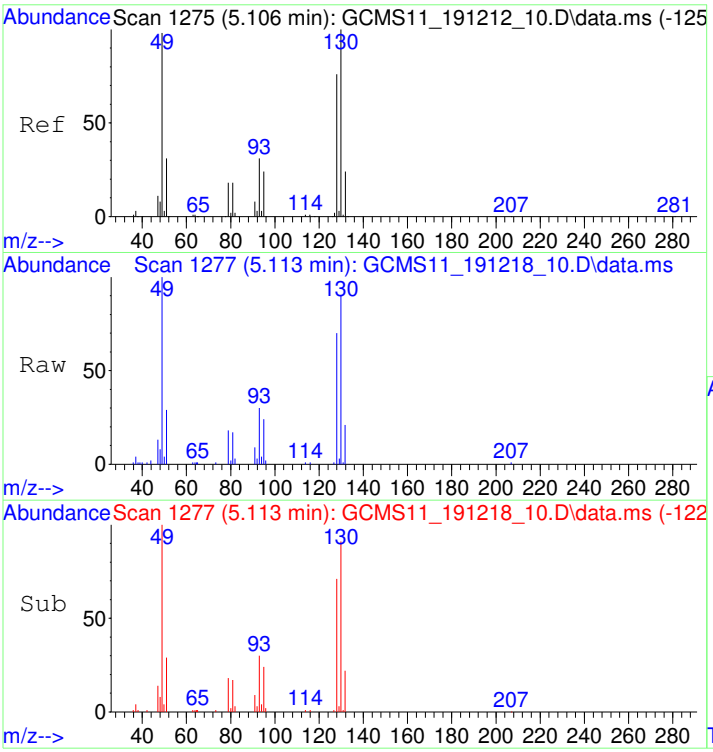


#18
cis-1,2-Dichloroethene
Concen: 131.12 ng
RT: 4.80 min Scan# 1179
Delta R.T. -0.003 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 96 Resp: 40613

Ion	Ratio	Lower	Upper
96	100		
98	64.2	30.6	90.6
61	128.8	96.6	156.6

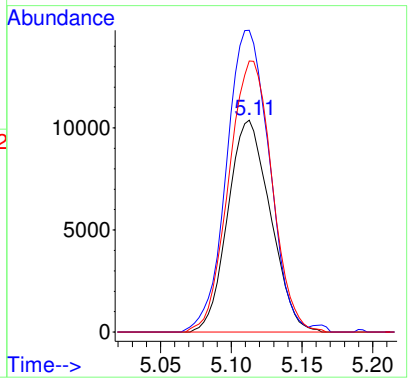


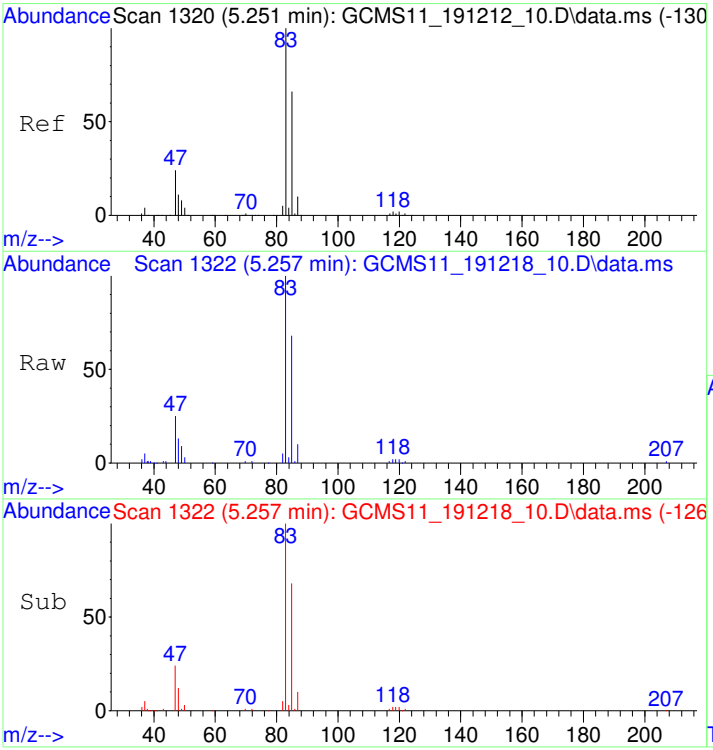


#20
Bromochloromethane
Concen: 129.00 ng
RT: 5.11 min Scan# 1277
Delta R.T. -0.003 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:128 Resp: 21717

Ion	Ratio	Lower	Upper
128	100		
49	143.1	99.5	159.5
130	130.4	99.8	159.8

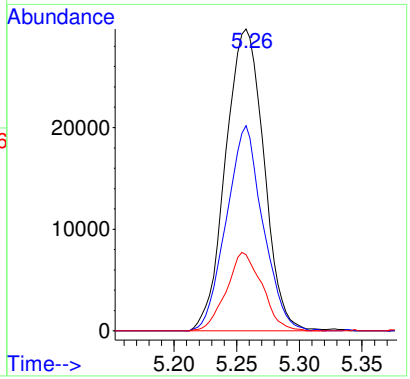


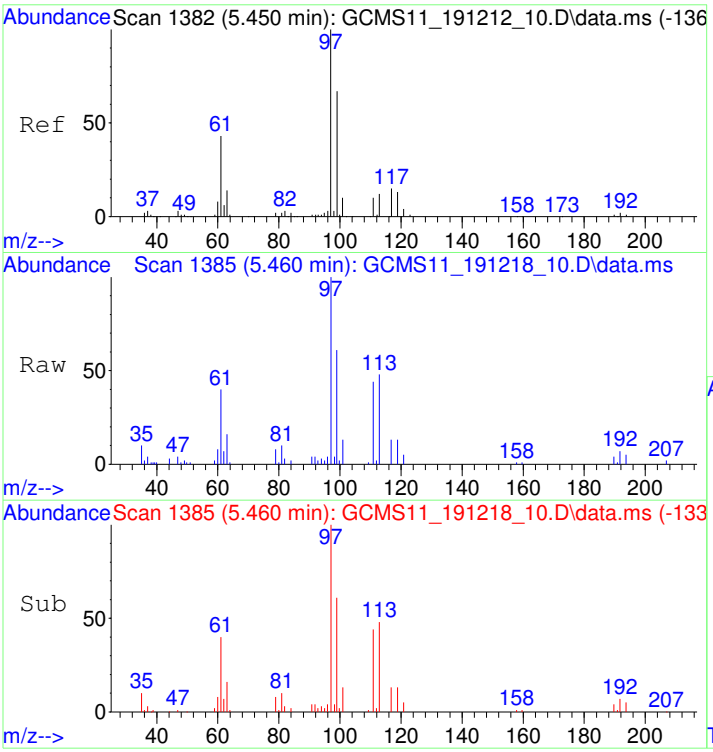


#21
Chloroform
Concen: 133.76 ng
RT: 5.26 min Scan# 1322
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 83 Resp: 63193

Ion	Ratio	Lower	Upper
83	100		
85	64.6	34.2	94.2
47	24.2	0.0	53.2

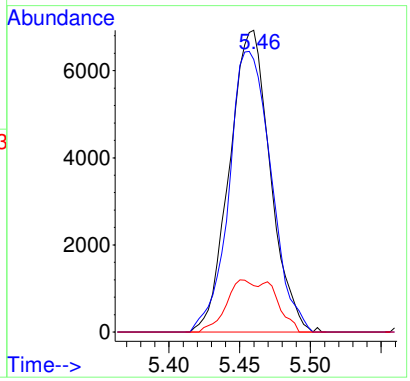


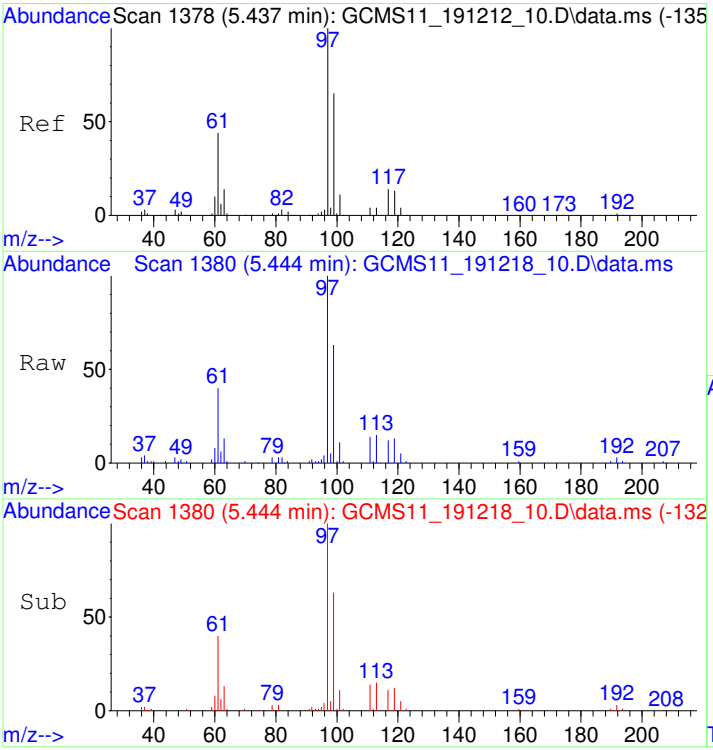


#22
DIBROMOFLUOROMETHANE
Concen: 54.02 ng
RT: 5.46 min Scan# 1385
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:113 Resp: 13914

Ion	Ratio	Lower	Upper
113	100		
111	95.8	75.2	135.2
192	13.0	0.0	52.1

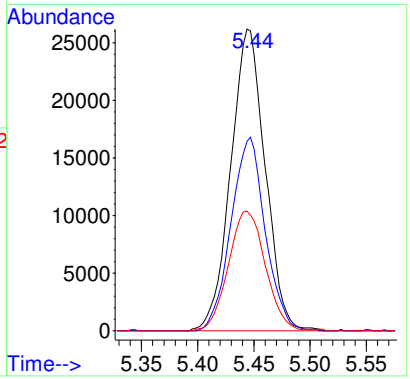


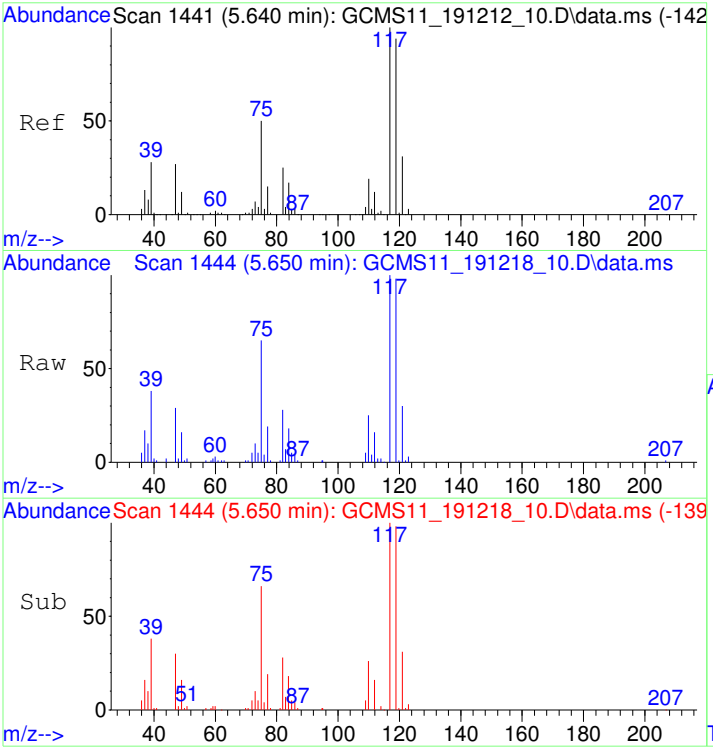


#23
1,1,1-Trichloroethane
Concen: 129.93 ng
RT: 5.44 min Scan# 1380
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 97 Resp: 55840

Ion	Ratio	Lower	Upper
97	100		
99	63.8	32.7	92.7
61	42.6	13.1	73.1

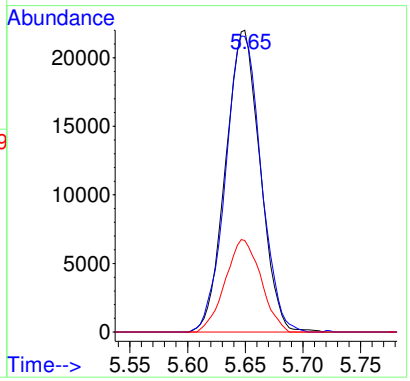


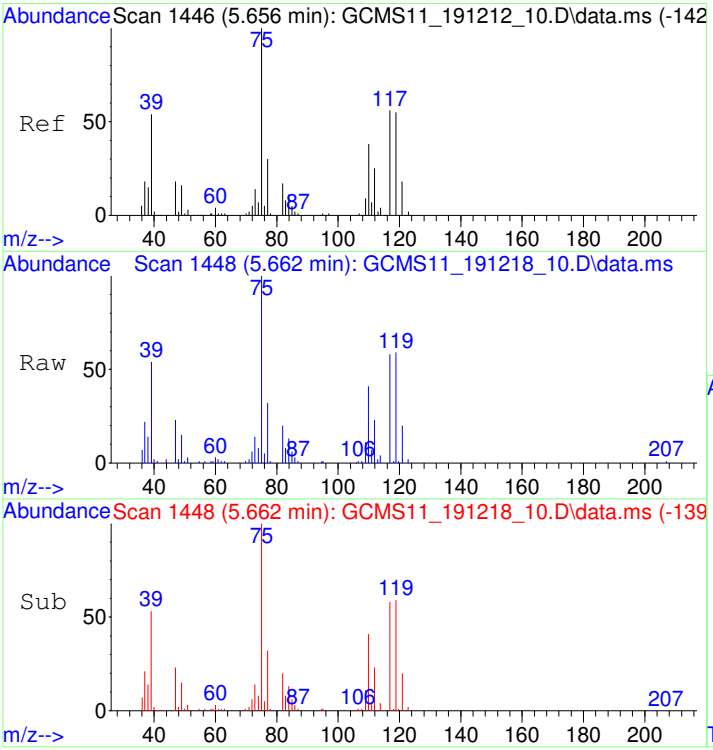


#24
Carbon tetrachloride
Concen: 118.46 ng
RT: 5.65 min Scan# 1444
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:117 Resp: 45740

Ion	Ratio	Lower	Upper
117	100		
119	100.8	66.6	126.6
121	31.7	0.0	59.5

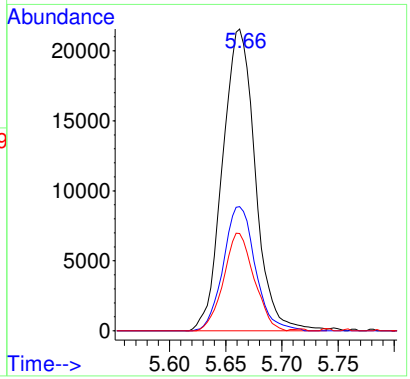


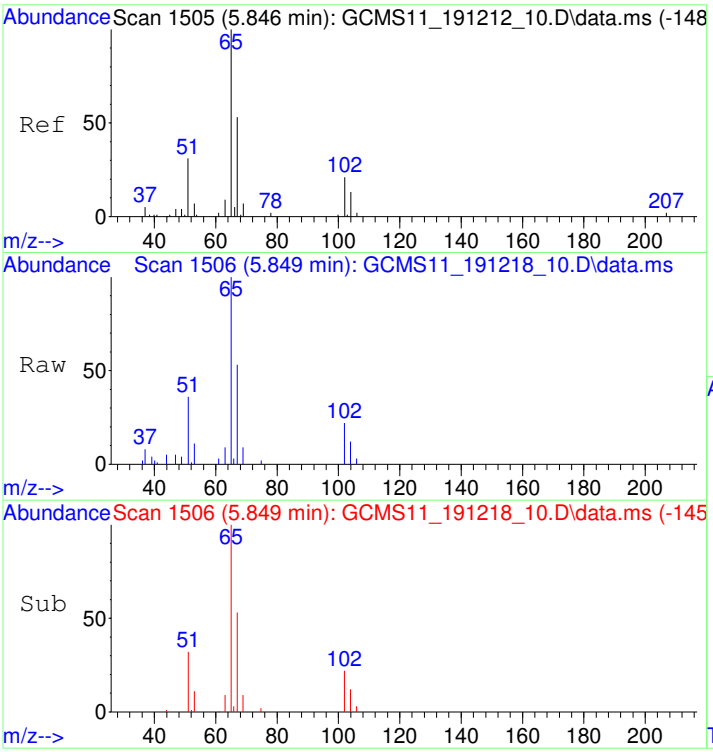


#25
1,1-Dichloropropene
Concen: 124.52 ng
RT: 5.66 min Scan# 1448
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 75 Resp: 43632

Ion	Ratio	Lower	Upper
75	100		
110	40.2	8.8	68.8
77	30.2	1.1	61.1

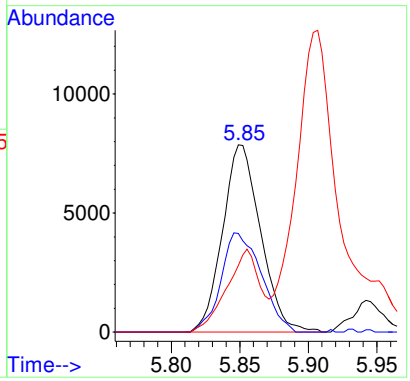


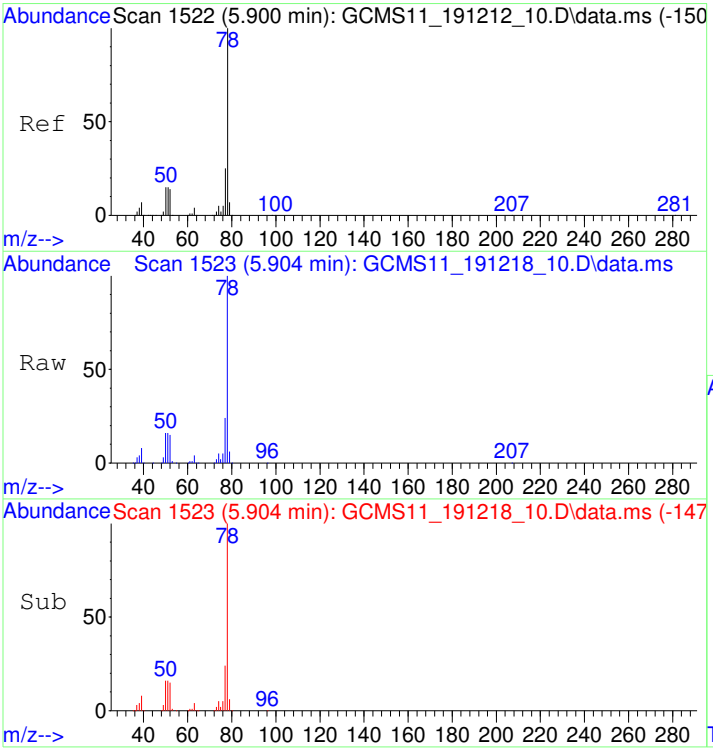


#26
1,2-DICHLOROETHANE-D4
Concen: 49.53 ng
RT: 5.85 min Scan# 1506
Delta R.T. -0.003 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 65 Resp: 15206

Ion	Ratio	Lower	Upper
65	100		
67	56.0	15.4	75.4
51	38.8	2.7	62.7

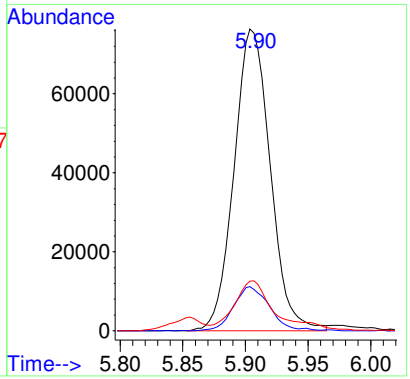


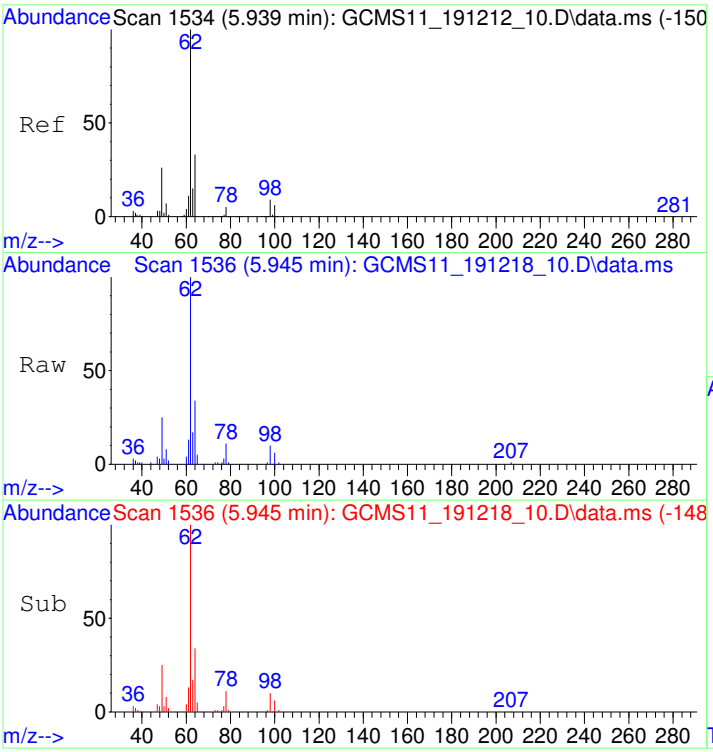


#27
Benzene
Concen: 129.38 ng
RT: 5.90 min Scan# 1523
Delta R.T. -0.003 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 78 Resp: 153818

Ion	Ratio	Lower	Upper
78	100		
52	14.6	0.0	44.0
51	18.2	0.0	48.4

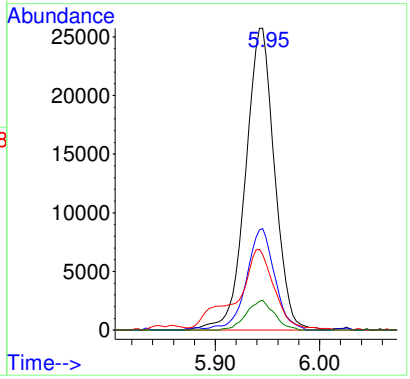


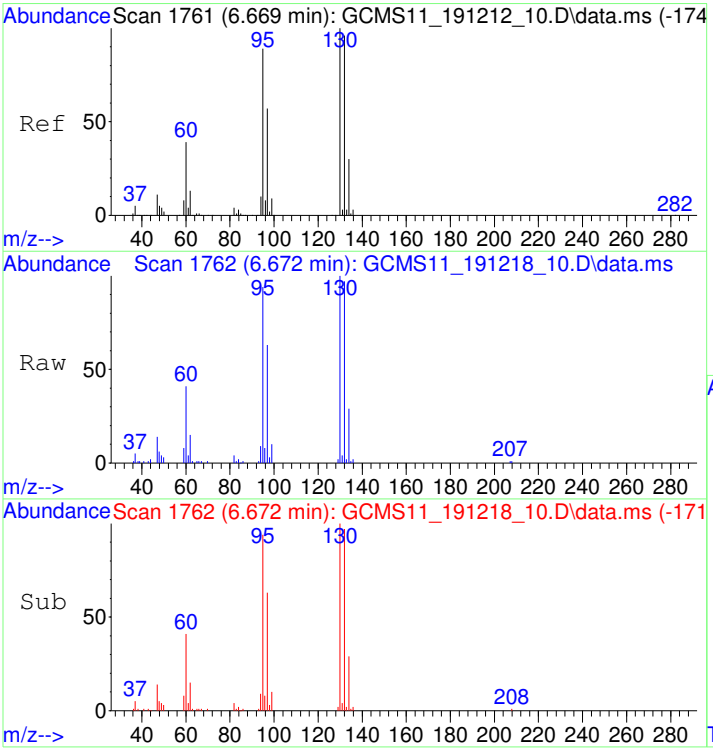


#28
1,2-Dichloroethane
Concen: 124.51 ng
RT: 5.95 min Scan# 1536
Delta R.T. 0.003 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 62 Resp: 49752

Ion	Ratio	Lower	Upper
62	100		
64	32.7	3.2	63.2
49	35.2	0.0	55.4
98	9.5	0.0	39.6

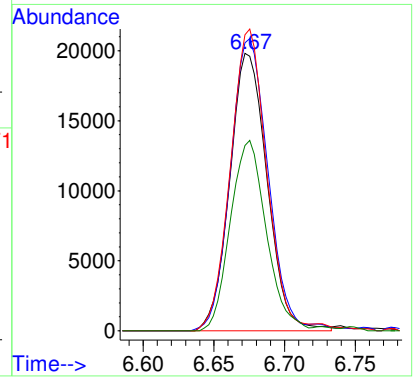


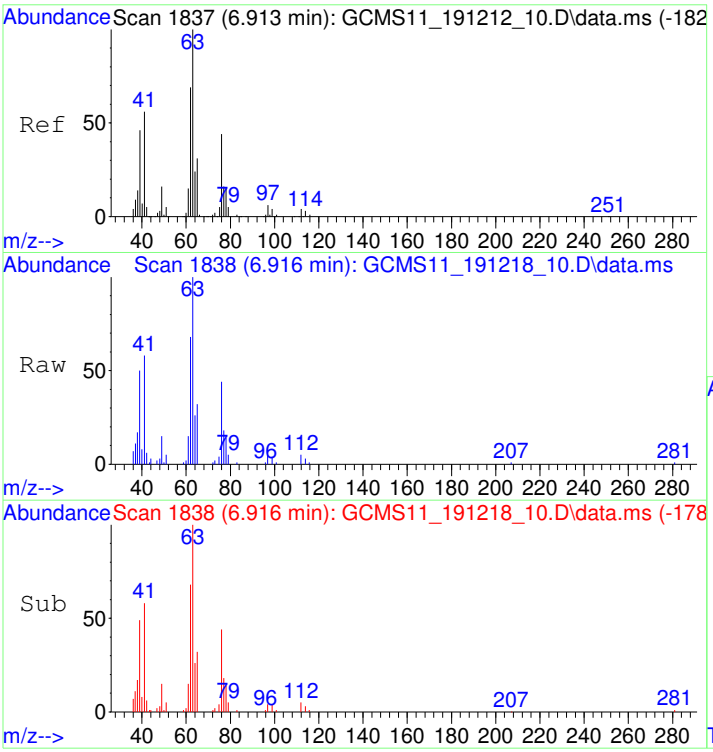


#29
Trichloroethene
Concen: 129.89 ng
RT: 6.67 min Scan# 1762
Delta R.T. -0.003 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 95 Resp: 36443

Ion	Ratio	Lower	Upper
95	100		
132	105.1	78.7	138.7
130	106.9	86.1	146.1
97	66.1	37.2	97.2

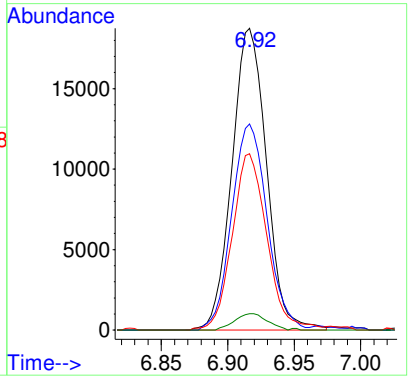


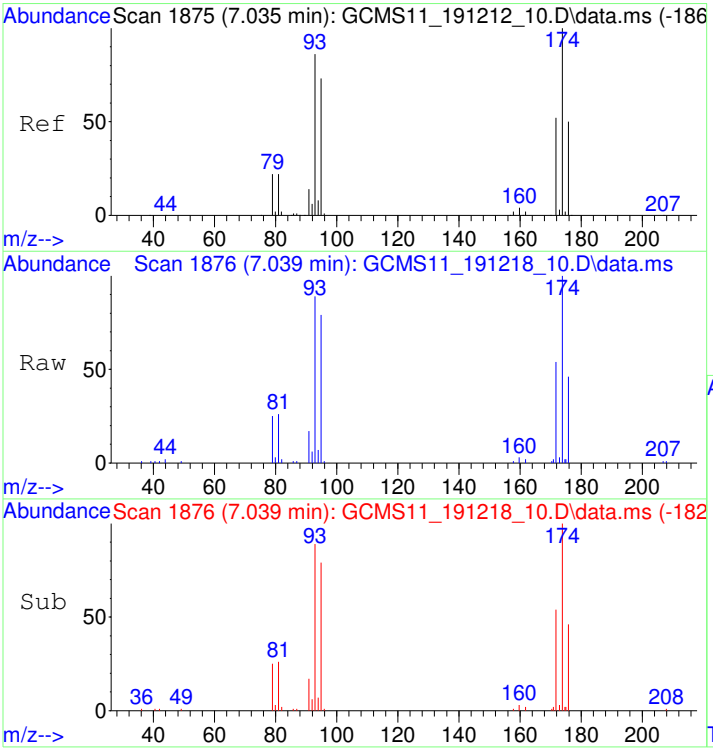


#30
1,2-Dichloropropane
Concen: 128.93 ng
RT: 6.92 min Scan# 1838
Delta R.T. -0.003 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 63 Resp: 33989

Ion	Ratio	Lower	Upper
63	100		
62	70.0	39.8	99.8
41	58.6	27.8	87.8
112	5.1	0.0	34.0

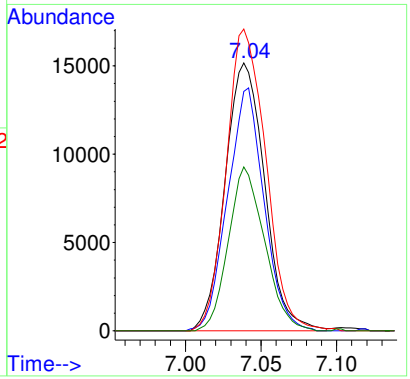


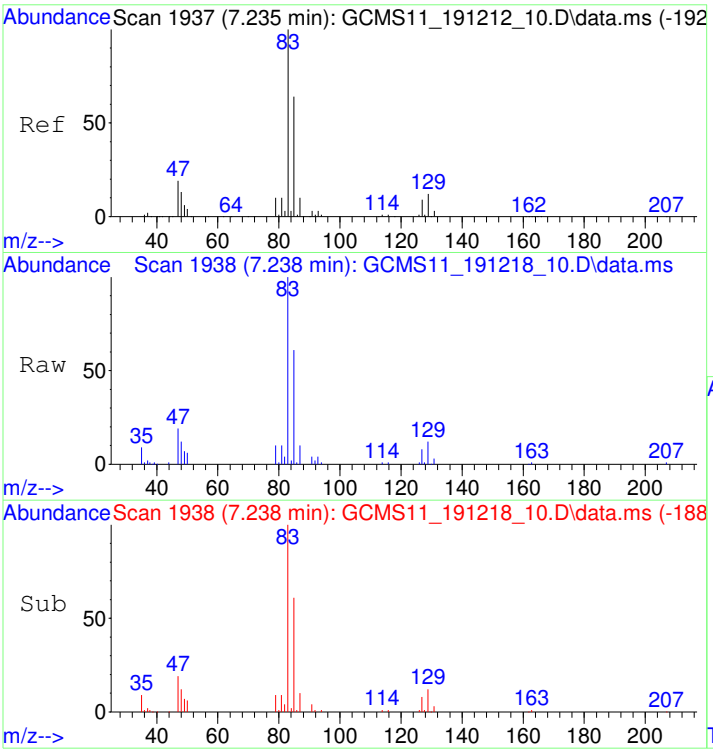


#31
Dibromomethane
Concen: 128.86 ng
RT: 7.04 min Scan# 1876
Delta R.T. -0.003 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 93 Resp: 27653

Ion	Ratio	Lower	Upper
93	100		
95	83.5	50.8	110.8
174	112.3	88.3	148.3
172	56.0	31.3	91.3

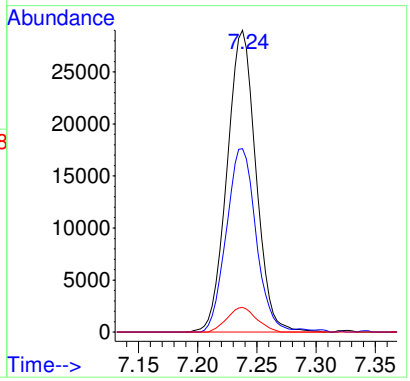


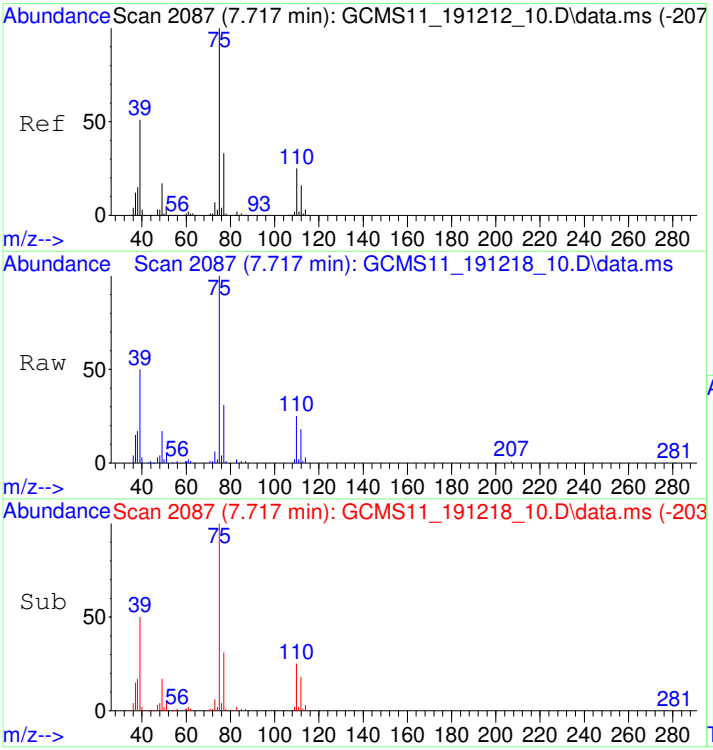


#33
Bromodichloromethane
Concen: 132.34 ng
RT: 7.24 min Scan# 1938
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 83 Resp: 49242

Ion	Ratio	Lower	Upper
83	100		
85	62.4	34.5	94.5
127	8.3	0.0	38.6

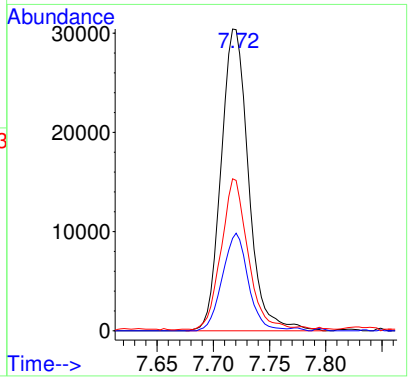


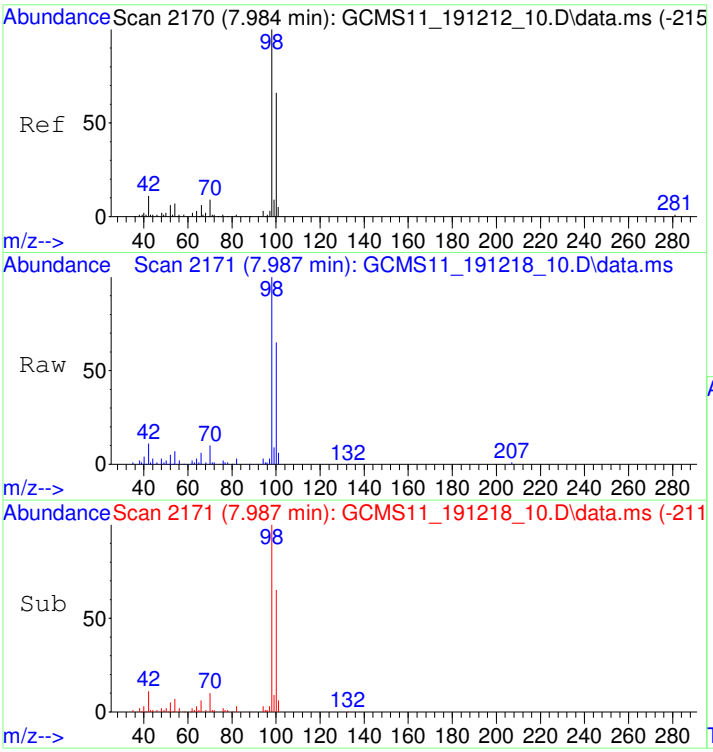


#35
cis-1,3-Dichloropropene
Concen: 125.33 ng
RT: 7.72 min Scan# 2087
Delta R.T. -0.003 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 75 Resp: 51672

Ion	Ratio	Lower	Upper
75	100		
77	30.6	2.5	62.5
39	49.1	18.8	78.8

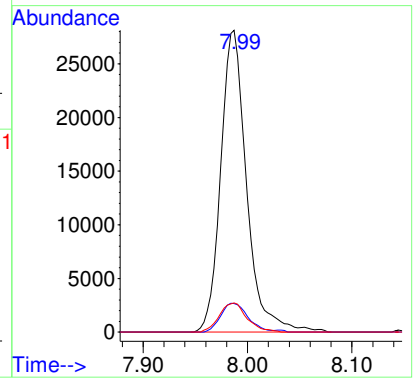


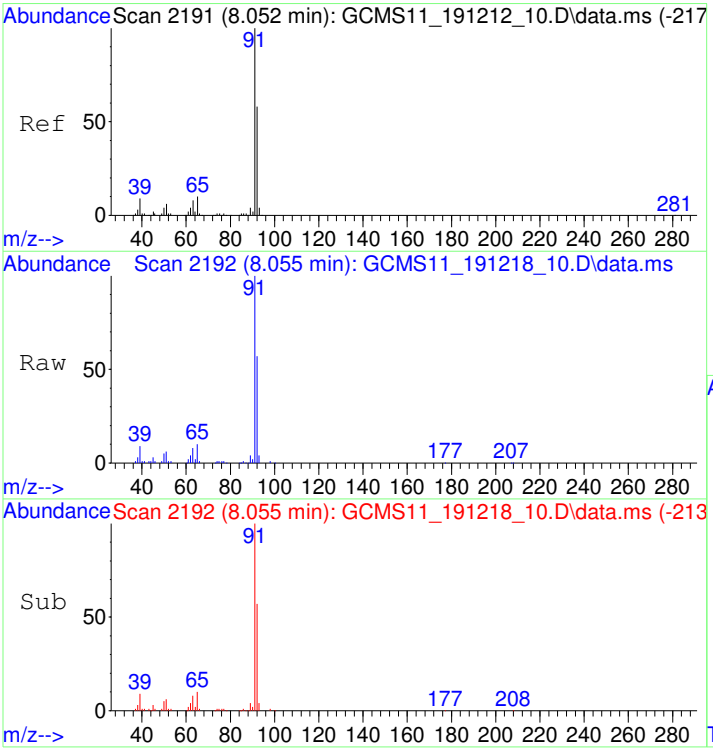


#37
TOLUENE-D8
Concen: 50.30 ng
RT: 7.99 min Scan# 2171
Delta R.T. 0.003 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 98 Resp: 48521

Ion	Ratio	Lower	Upper
98	100		
99	10.1	0.0	39.8
70	10.3	0.0	40.7

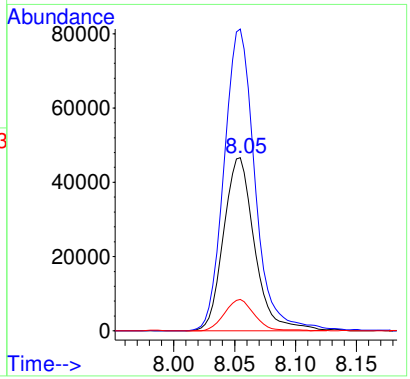


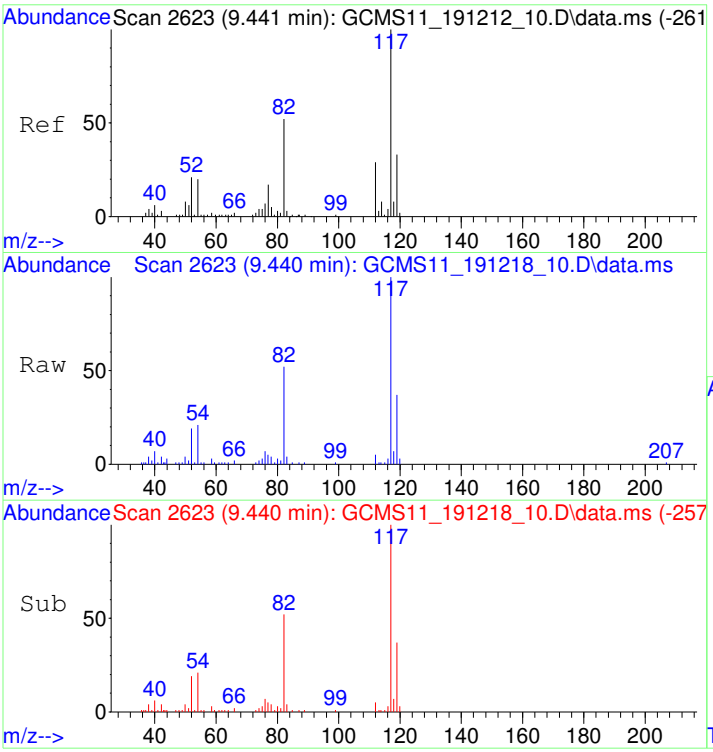


#38
Toluene
Concen: 124.60 ng
RT: 8.05 min Scan# 2192
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 92 Resp: 82867

Ion	Ratio	Lower	Upper
92	100		
91	173.7	145.1	205.1
65	17.4	0.0	48.1

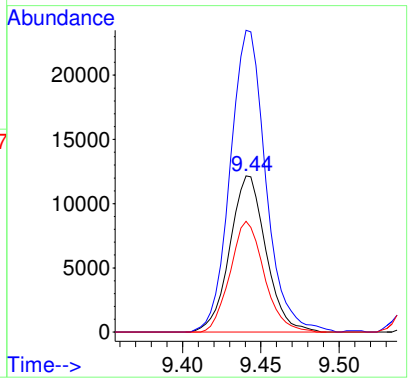


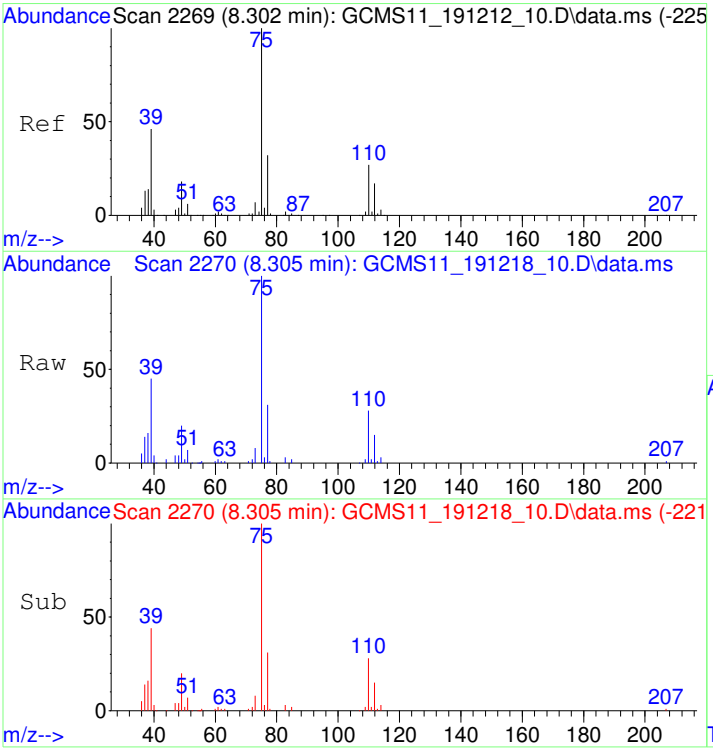


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 82 Resp: 19566

Ion	Ratio	Lower	Upper
82	100		
117	190.3	160.7	220.7
119	67.0	33.5	93.5

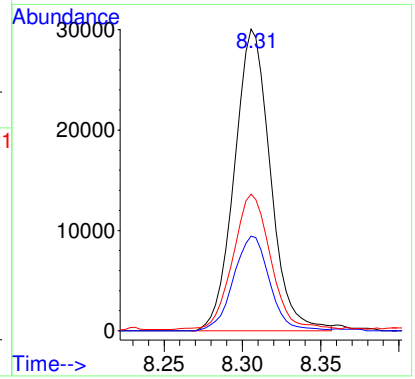


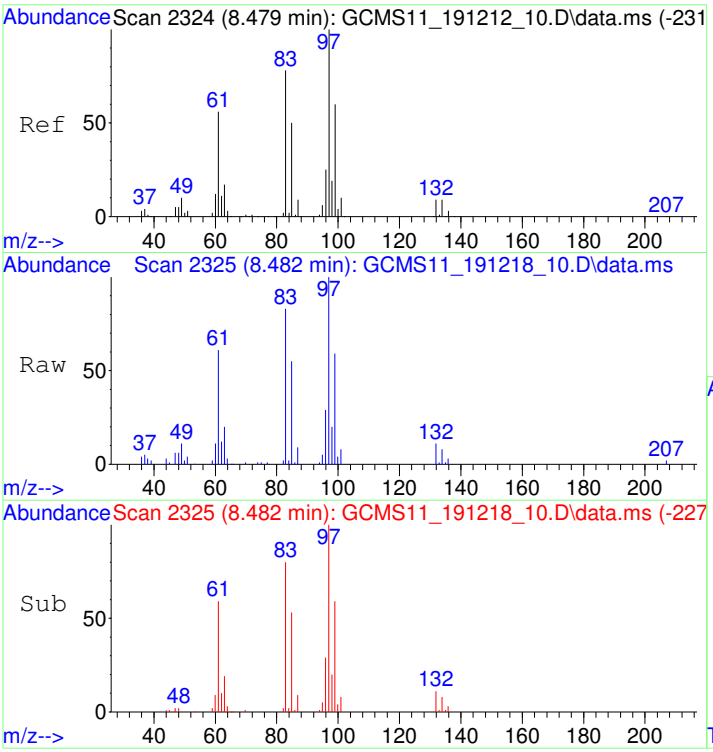


#40
trans-1,3-Dichloropropene
Concen: 112.60 ng
RT: 8.31 min Scan# 2270
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 75 Resp: 48036

Ion	Ratio	Lower	Upper
75	100		
77	31.5	0.7	60.7
39	47.1	17.0	77.0

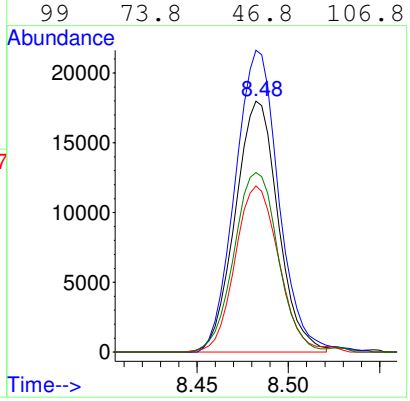


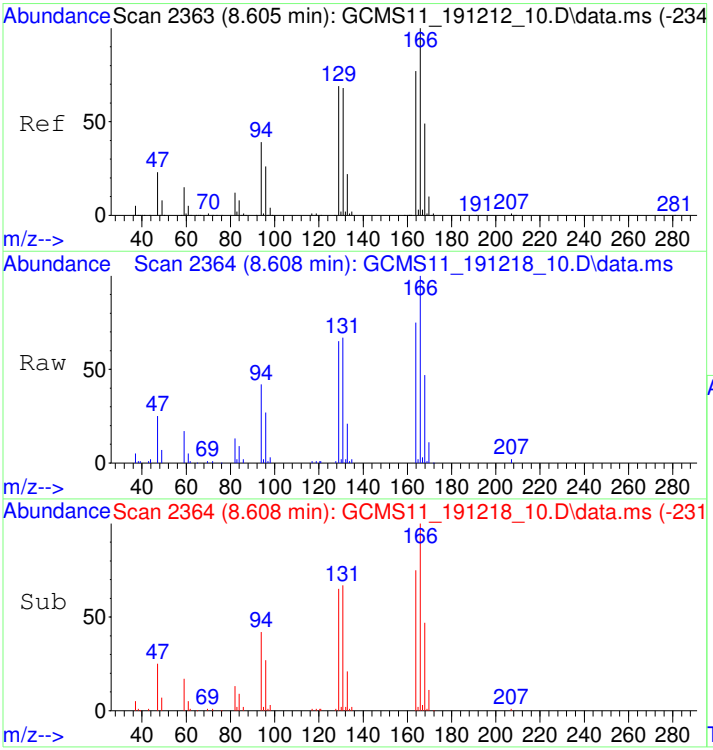


#41
1,1,2-Trichloroethane
Concen: 119.87 ng
RT: 8.48 min Scan# 2325
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 83 Resp: 29406

Ion	Ratio	Lower	Upper
83	100		
97	122.6	90.7	150.7
85	68.0	37.5	97.5
99	73.8	46.8	106.8

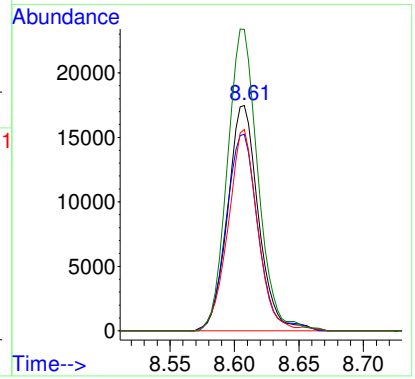


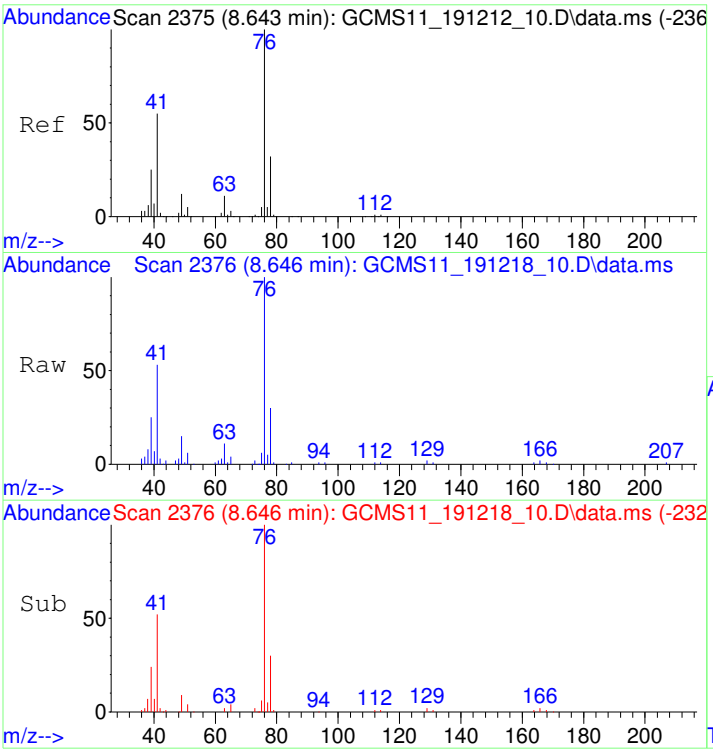


#42
Tetrachloroethene
Concen: 117.94 ng
RT: 8.61 min Scan# 2364
Delta R.T. 0.004 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:164 Resp: 29049

Ion	Ratio	Lower	Upper
164	100		
129	90.2	57.5	117.5
131	84.7	55.8	115.8
166	132.6	99.4	159.4

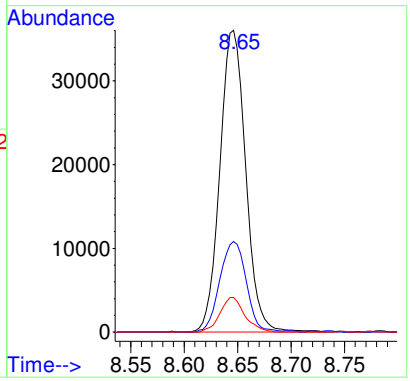


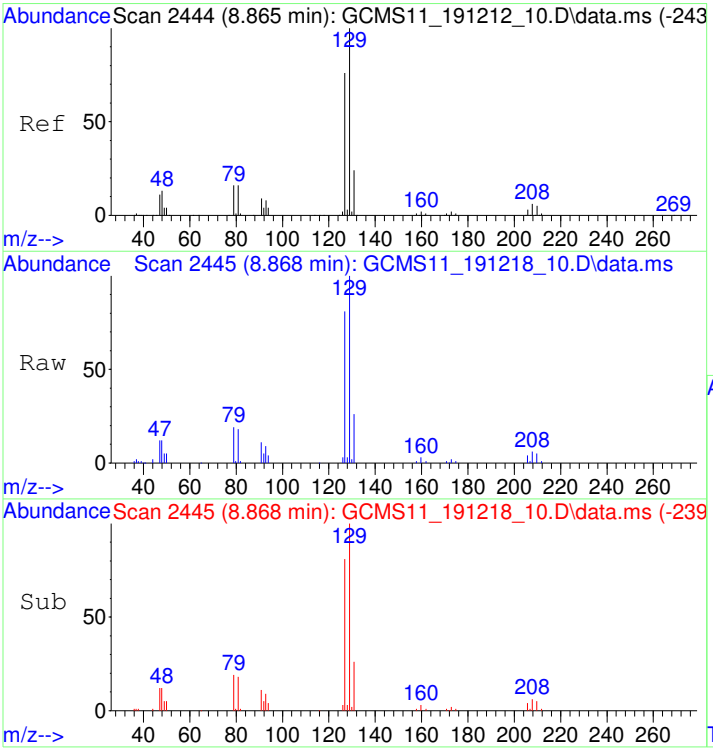


#43
1,3-Dichloropropane
Concen: 127.43 ng
RT: 8.65 min Scan# 2376
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 76 Resp: 60551

Ion	Ratio	Lower	Upper
76	100		
78	30.7	2.5	62.5
63	11.0	0.0	40.6

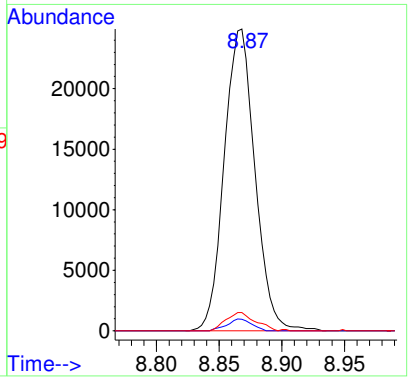


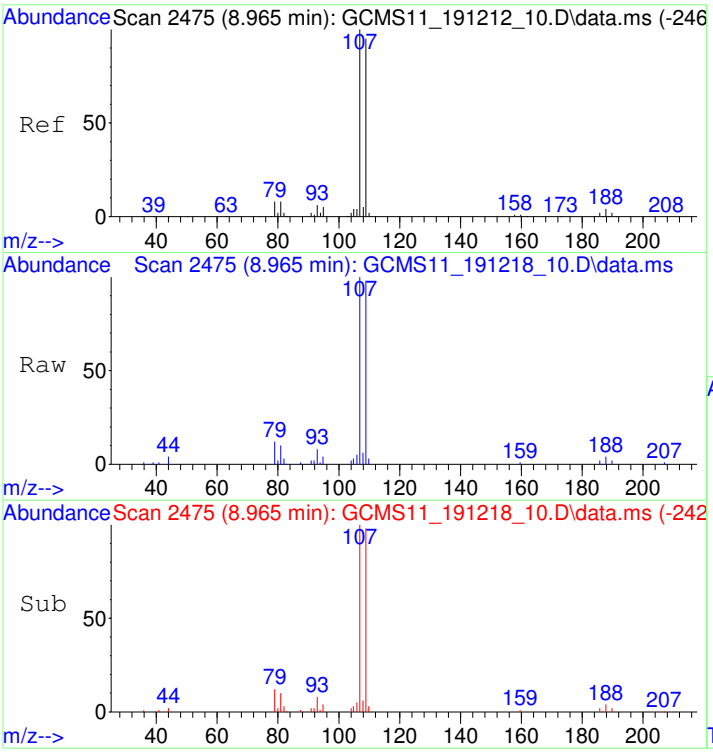


#45
Dibromochloromethane
Concen: 117.00 ng
RT: 8.87 min Scan# 2445
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:129 Resp: 42605

Ion	Ratio	Lower	Upper
129	100		
206	3.1	0.0	32.2
208	5.8	0.0	36.8

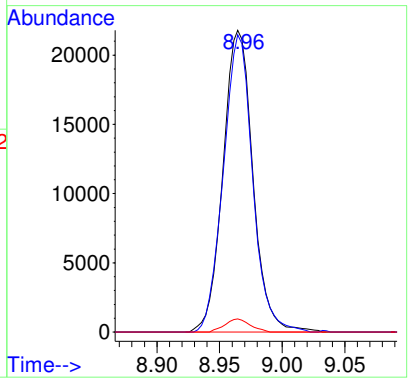


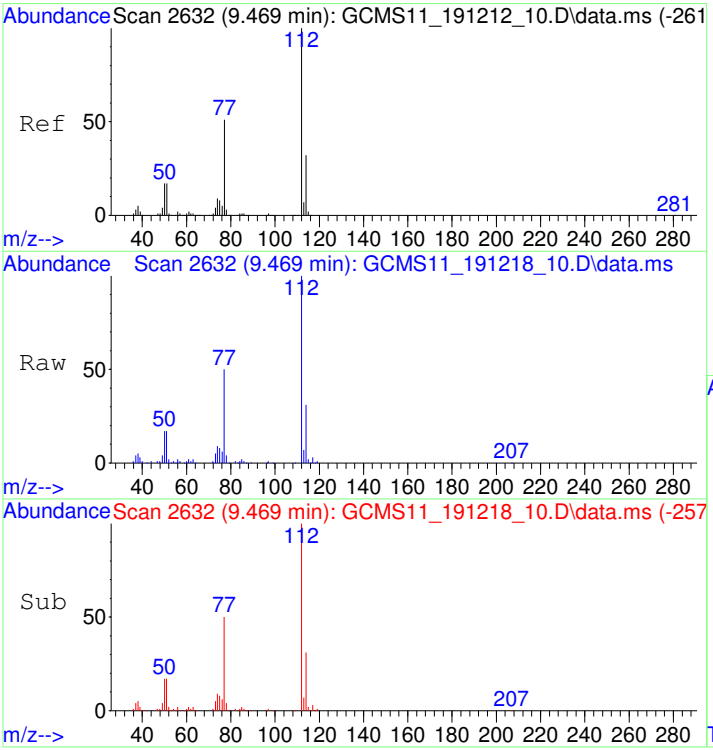


#46
1,2-Dibromoethane (EDB)
Concen: 116.52 ng
RT: 8.96 min Scan# 2475
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:107 Resp: 36241

Ion	Ratio	Lower	Upper
107	100		
109	96.4	60.6	120.6
188	3.7	0.0	33.6

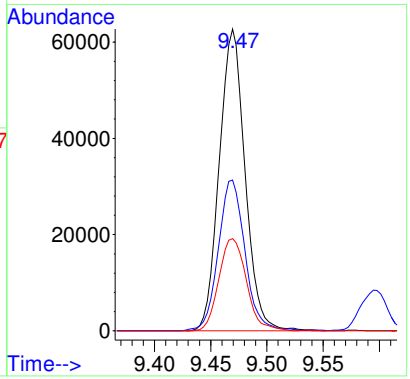


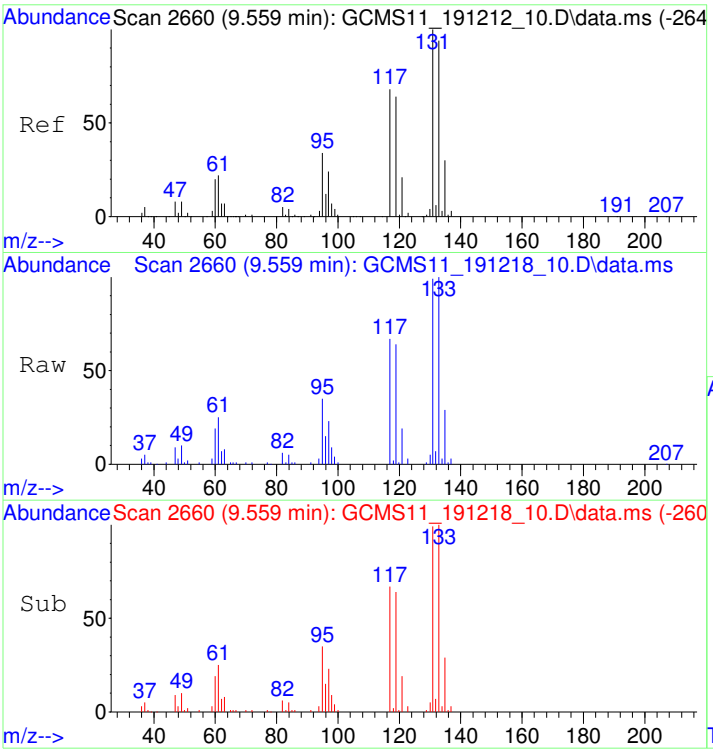


#47
Chlorobenzene
Concen: 119.11 ng
RT: 9.47 min Scan# 2632
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:112 Resp: 100105

Ion	Ratio	Lower	Upper
112	100		
77	51.7	21.6	81.6
114	32.6	1.4	61.4

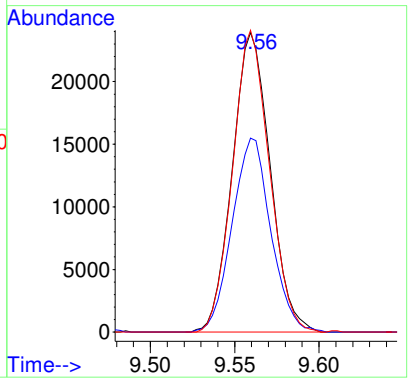


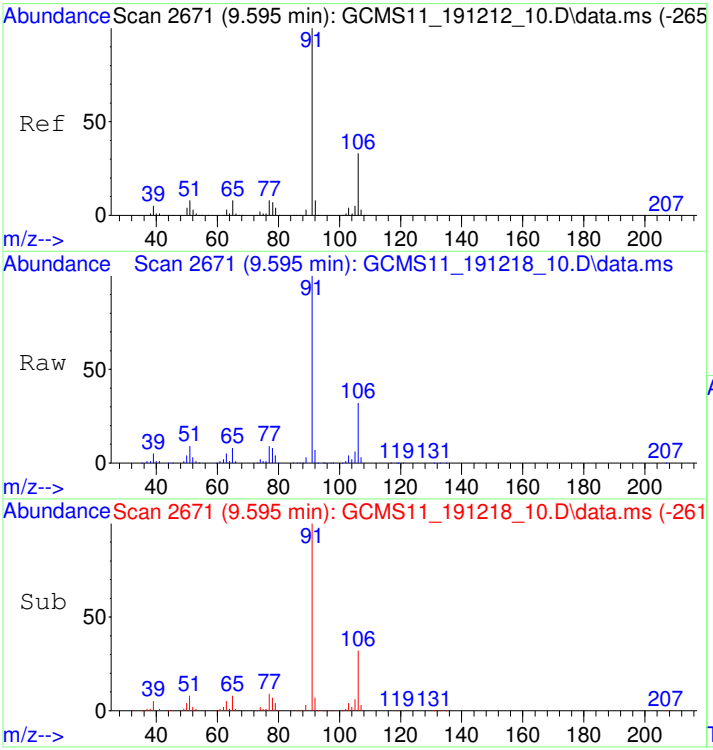


#48
1,1,1,2-Tetrachloroethane
Concen: 114.89 ng
RT: 9.56 min Scan# 2660
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:131 Resp: 37185

Ion	Ratio	Lower	Upper
131	100		
119	66.2	33.7	93.7
133	97.9	65.9	125.9

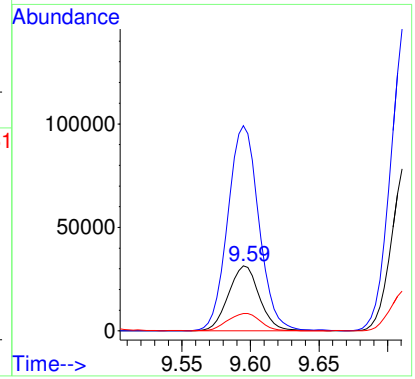


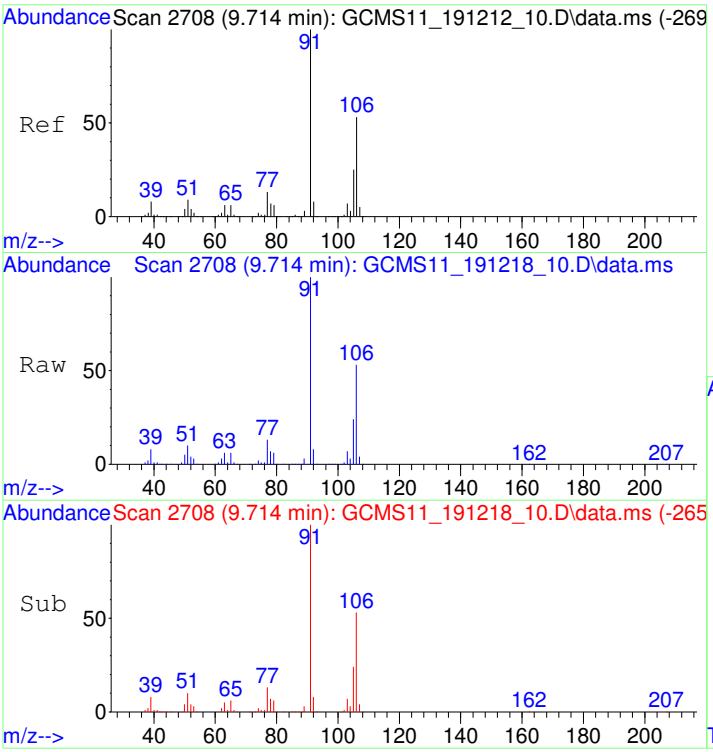


#49
Ethylbenzene
Concen: 114.27 ng
RT: 9.59 min Scan# 2671
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:106 Resp: 49494

Ion	Ratio	Lower	Upper
106	100		
91	316.1	267.1	327.1
77	28.6	0.0	57.1

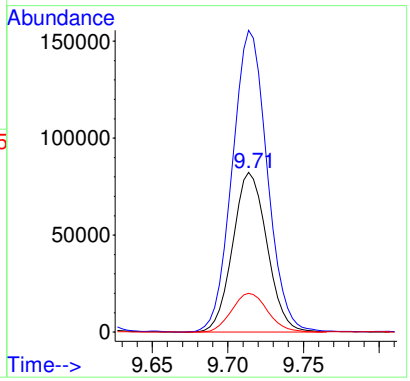


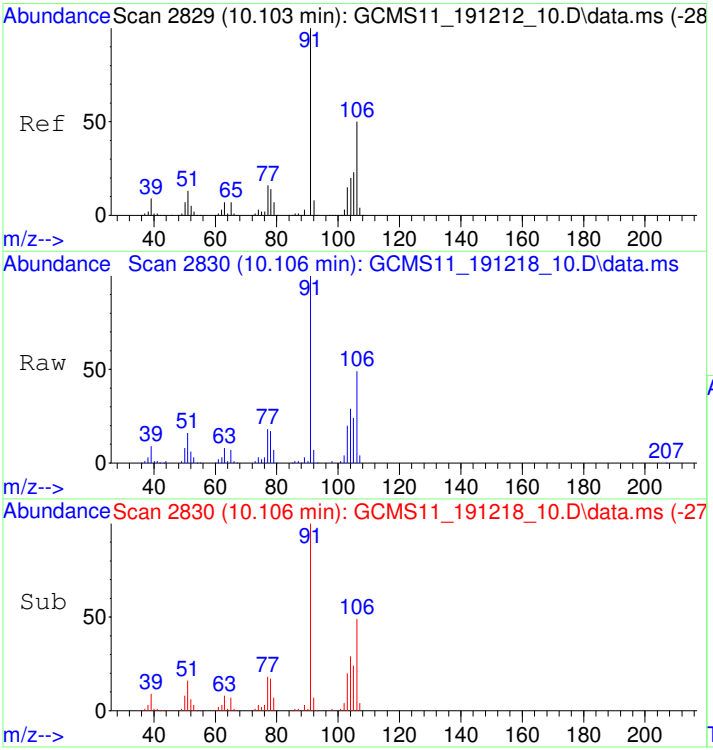


#50
m+p-Xylene
Concen: 237.21 ng
RT: 9.71 min Scan# 2708
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:106 Resp: 129982

Ion	Ratio	Lower	Upper
106	100		
91	192.8	160.8	220.8
77	25.5	0.0	54.6

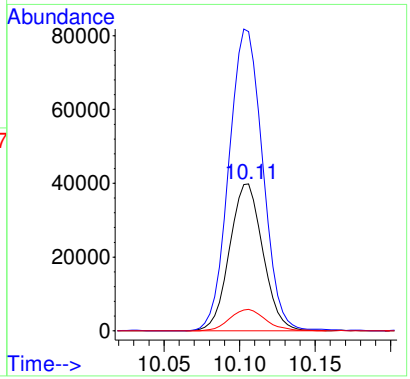


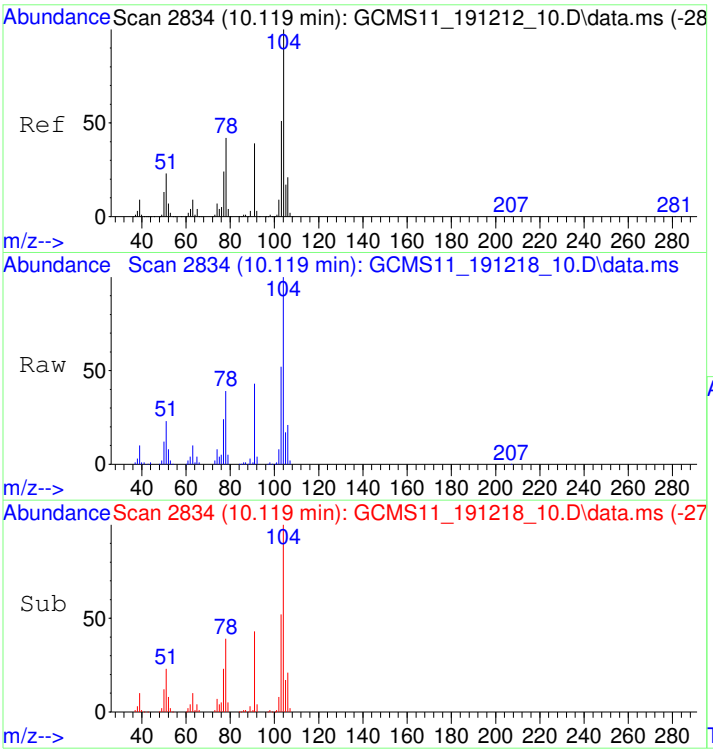


#51
o-Xylene
Concen: 115.30 ng
RT: 10.11 min Scan# 2830
Delta R.T. 0.003 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:106 Resp: 61037

Ion	Ratio	Lower	Upper
106	100		
91	208.4	178.4	238.4
65	15.8	0.0	45.9

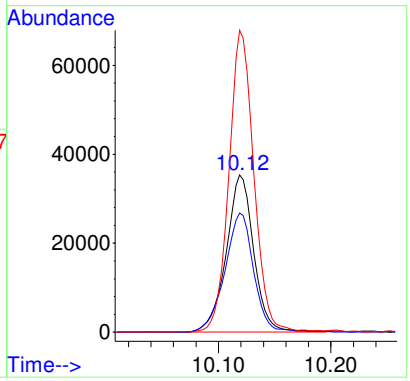


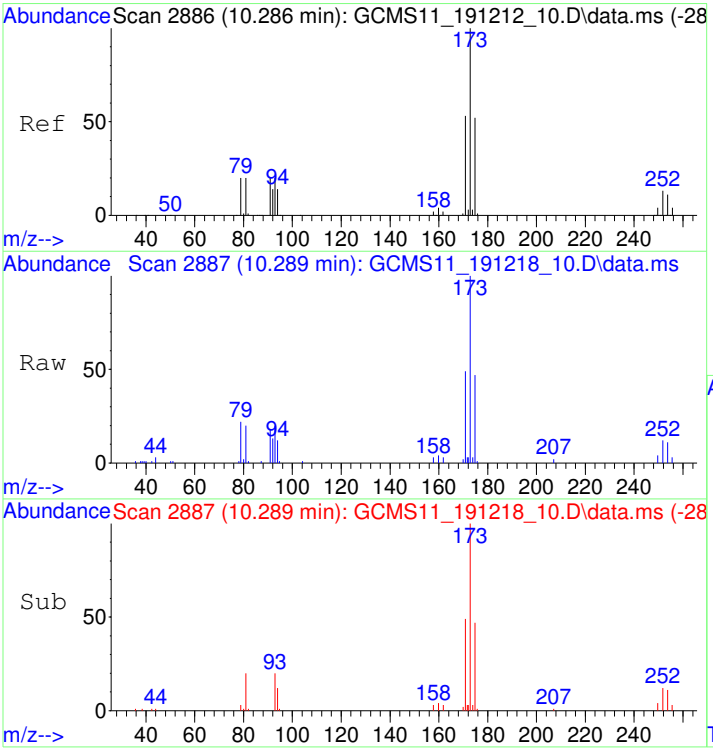


#52
Styrene
Concen: 119.92 ng
RT: 10.12 min Scan# 2834
Delta R.T. -0.003 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:103 Resp: 60046

Ion	Ratio	Lower	Upper
103	100		
78	79.4	54.1	114.1
104	174.2	150.1	210.1

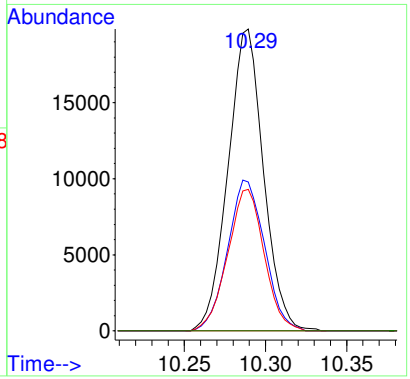


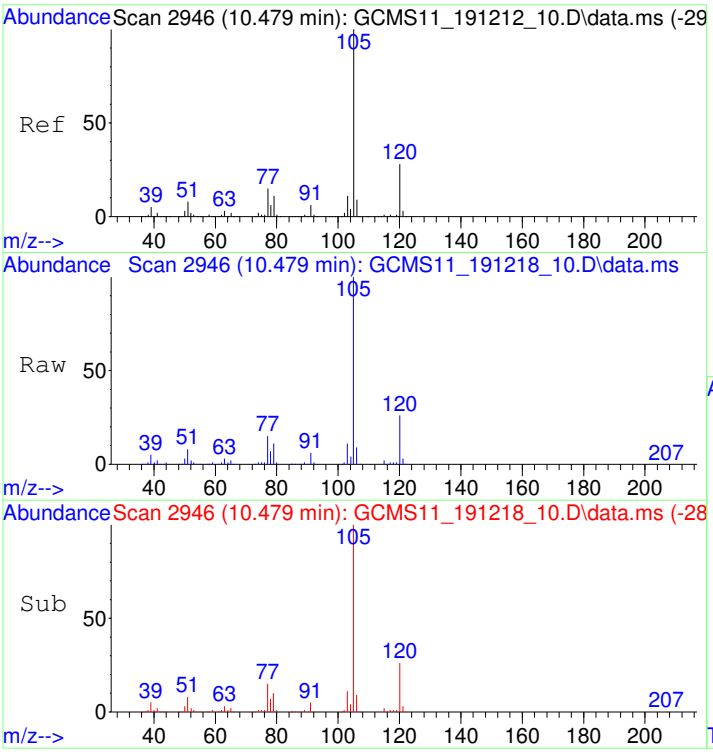


#53
Bromoform
Concen: 114.49 ng
RT: 10.29 min Scan# 2887
Delta R.T. 0.003 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:173 Resp: 30185

Ion	Ratio	Lower	Upper
173	100		
171	52.0	24.1	84.1
175	48.2	16.4	76.4
254	0.0	0.0	30.0

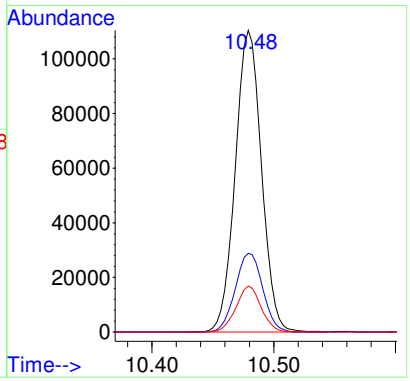


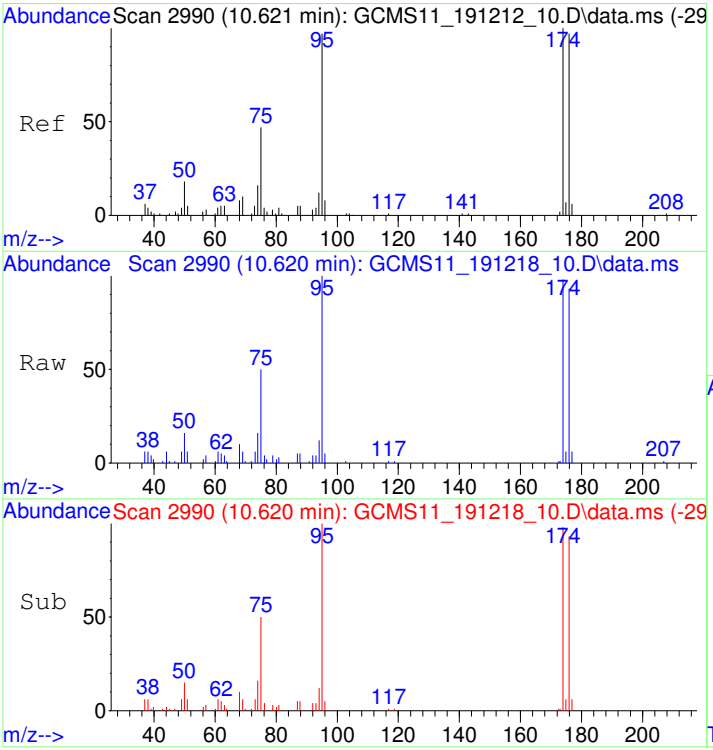


#54
Isopropylbenzene
Concen: 118.44 ng
RT: 10.48 min Scan# 2946
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:105 Resp: 165527

Ion	Ratio	Lower	Upper
105	100		
120	27.3	0.0	59.2
77	14.8	0.0	44.3

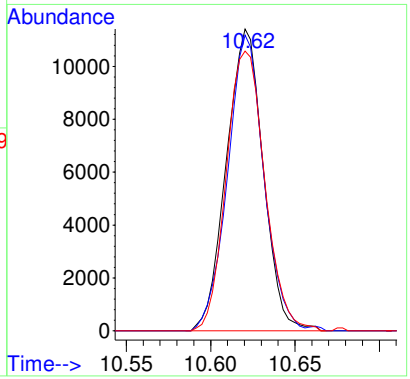


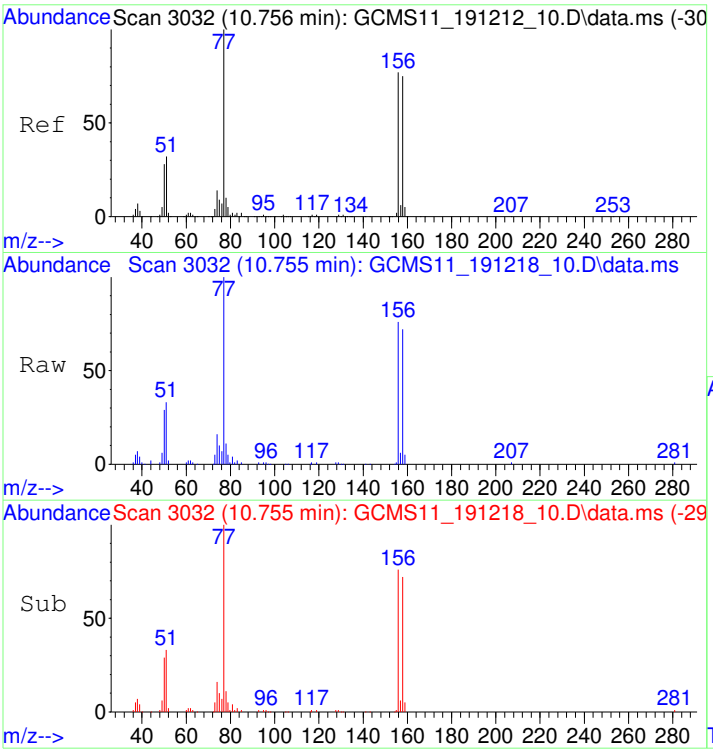


#55
4-BROMOFLUOROBENZENE
Concen: 48.71 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 95 Resp: 17281

Ion	Ratio	Lower	Upper
95	100		
174	96.3	68.5	128.5
176	97.1	66.8	126.8

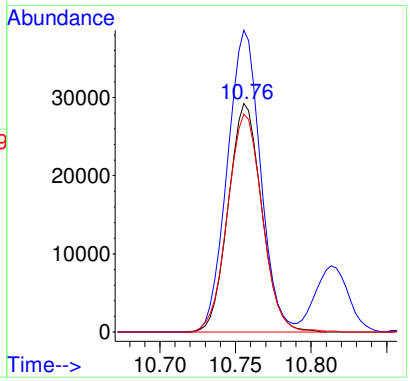


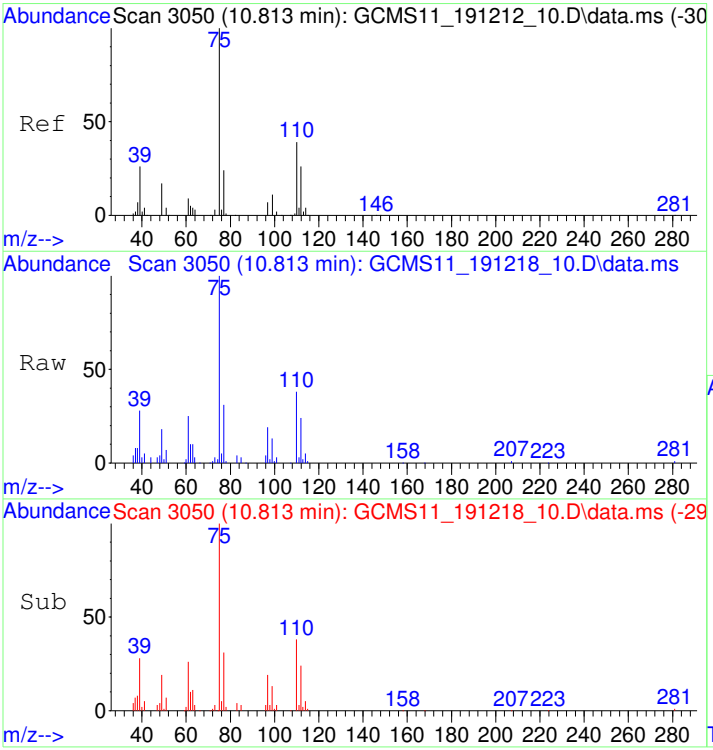


#56
Bromobenzene
Concen: 122.58 ng
RT: 10.76 min Scan# 3032
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:156 Resp: 44982

Ion	Ratio	Lower	Upper
156	100		
77	131.2	102.0	162.0
158	99.0	70.7	130.7

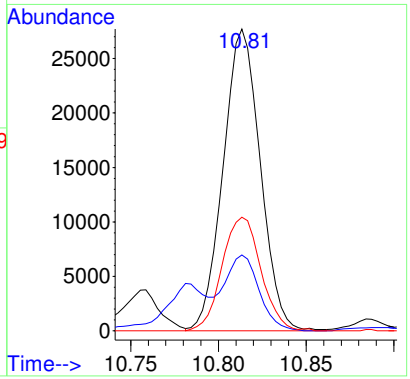


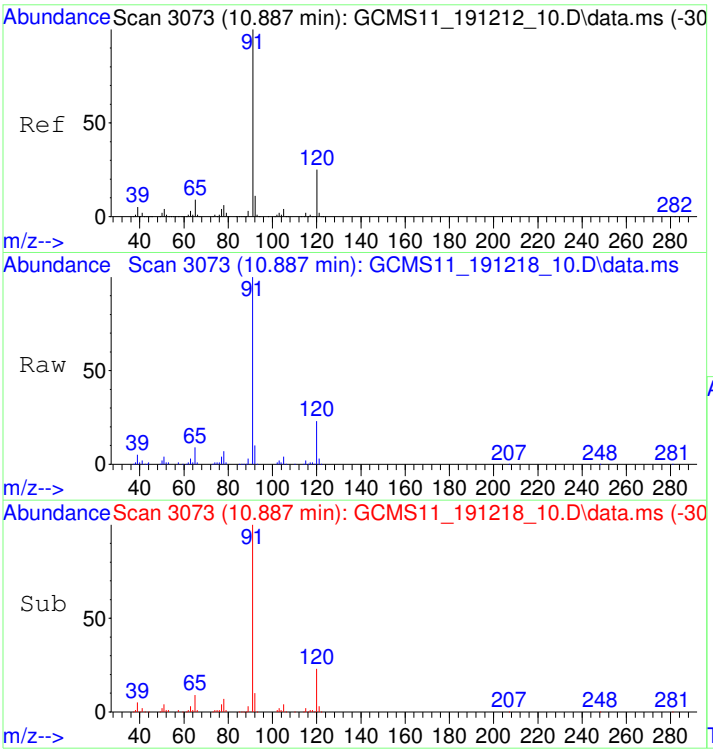


#57
1,2,3-Trichloropropane
Concen: 127.05 ng
RT: 10.81 min Scan# 3050
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 75 Resp: 40845

Ion	Ratio	Lower	Upper
75	100		
61	23.0	0.0	53.9
110	39.4	12.0	72.0

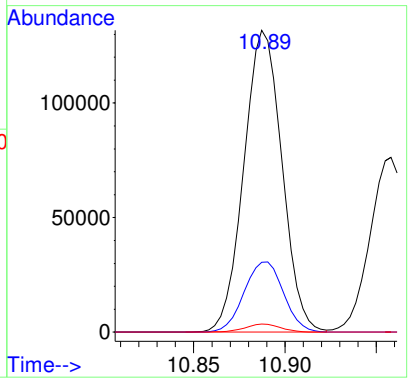


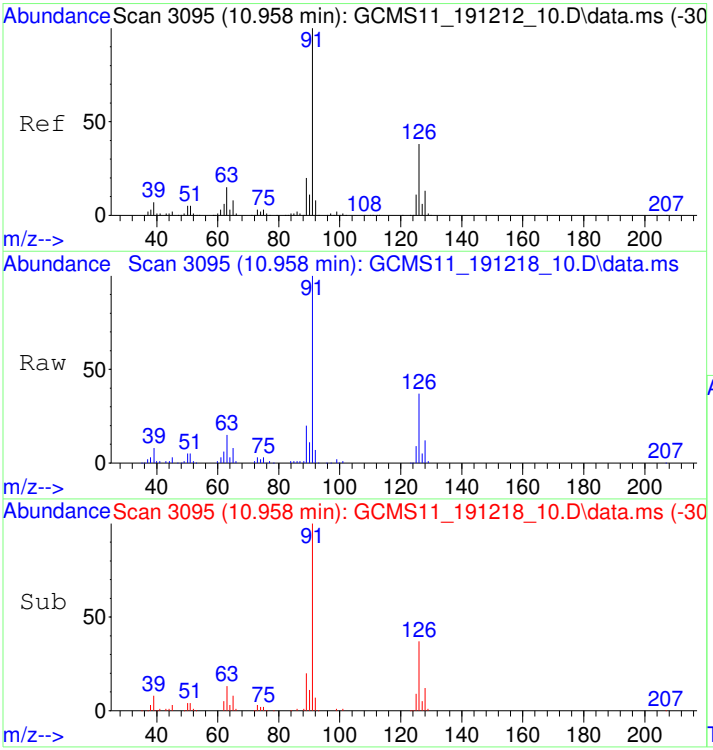


#58
n-Propylbenzene
Concen: 121.76 ng
RT: 10.89 min Scan# 3073
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 91 Resp: 191384

Ion	Ratio	Lower	Upper
91	100		
120	24.0	0.0	55.0
121	2.5	0.0	32.4

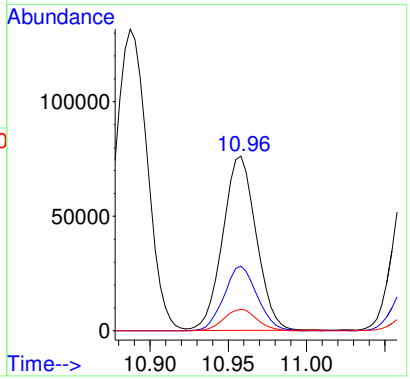


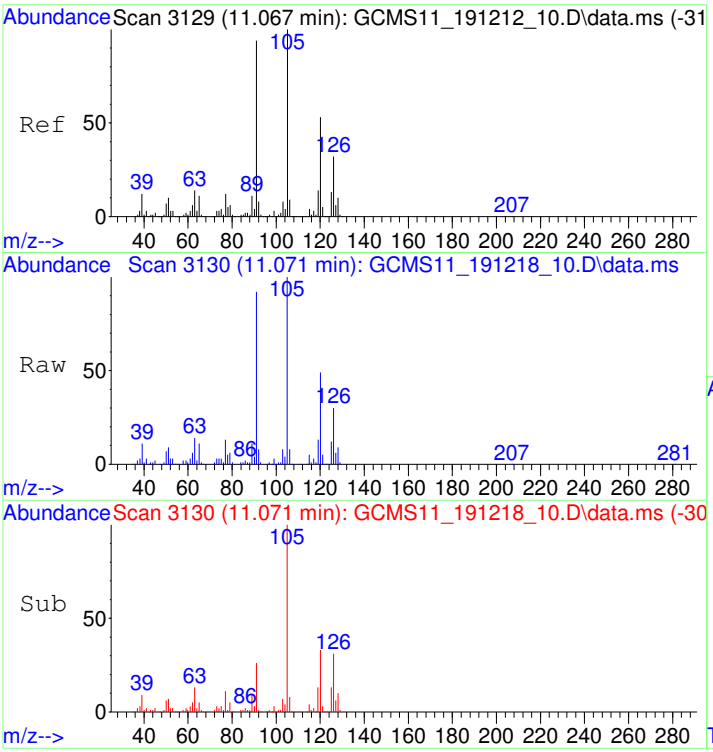


#59
2-Chlorotoluene
Concen: 123.18 ng
RT: 10.96 min Scan# 3095
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 91 Resp: 113146

Ion	Ratio	Lower	Upper
91	100		
126	36.8	7.6	67.6
128	12.3	0.0	41.8

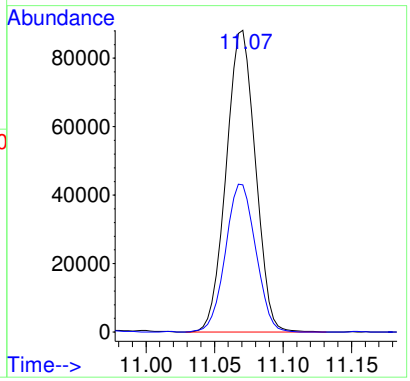


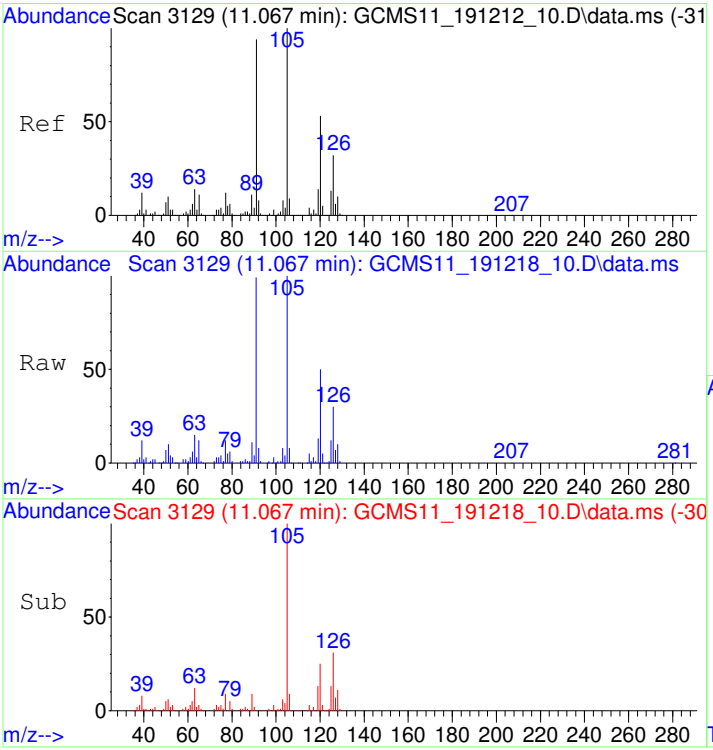


#60
1,3,5-Trimethylbenzene
Concen: 115.04 ng
RT: 11.07 min Scan# 3130
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:105 Resp: 130946

Ion	Ratio	Lower	Upper
105	100		
120	50.8	22.4	82.4

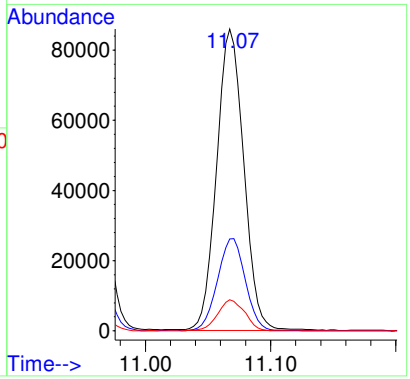


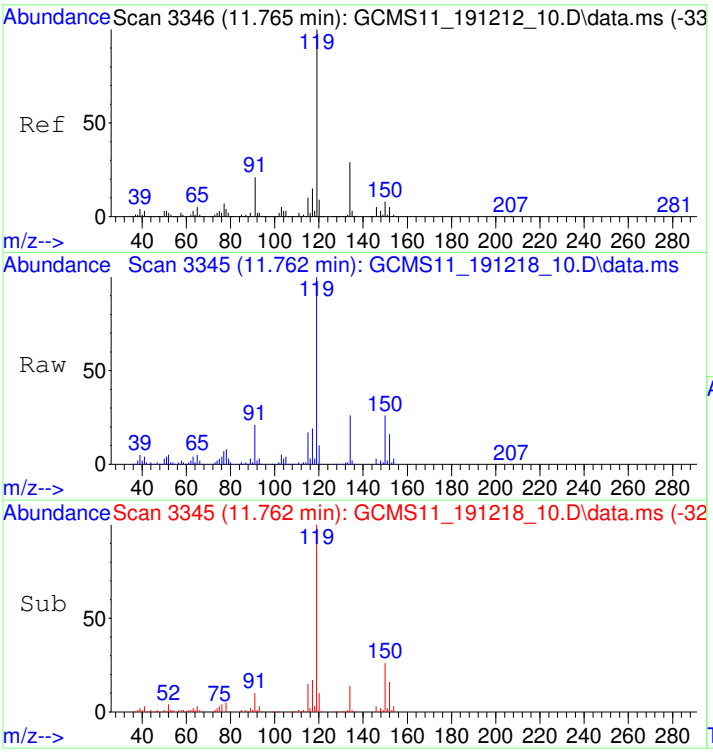


#61
4-Chlorotoluene
Concen: 120.76 ng
RT: 11.07 min Scan# 3129
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 91 Resp: 129401

Ion	Ratio	Lower	Upper
91	100		
126	31.5	3.3	63.3
128	10.3	0.0	41.2

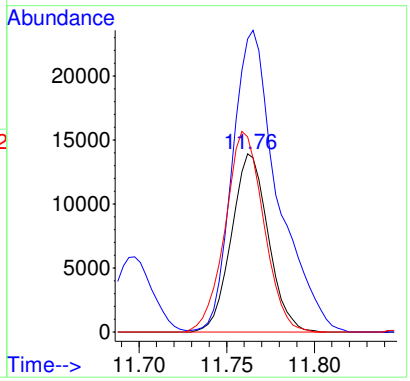


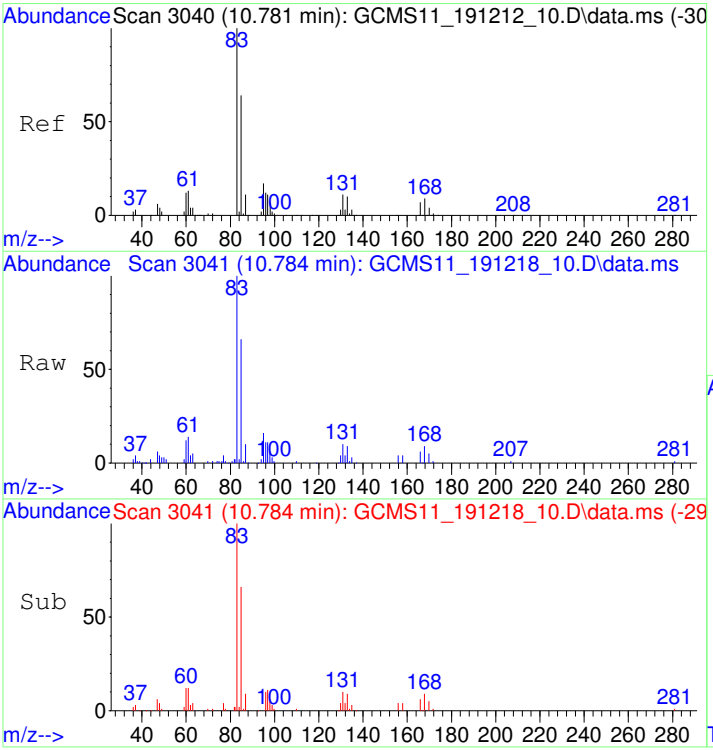


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.76 min Scan# 3345
Delta R.T. -0.003 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:152 Resp: 20307

Ion	Ratio	Lower	Upper
152	100		
150	208.9	162.5	222.5
115	117.8	82.3	142.3

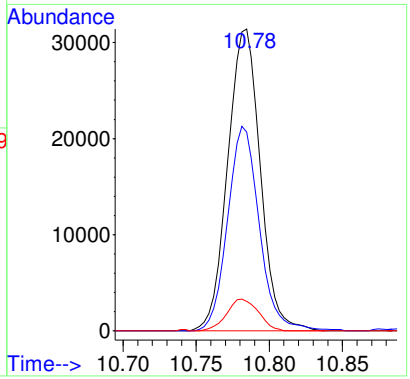


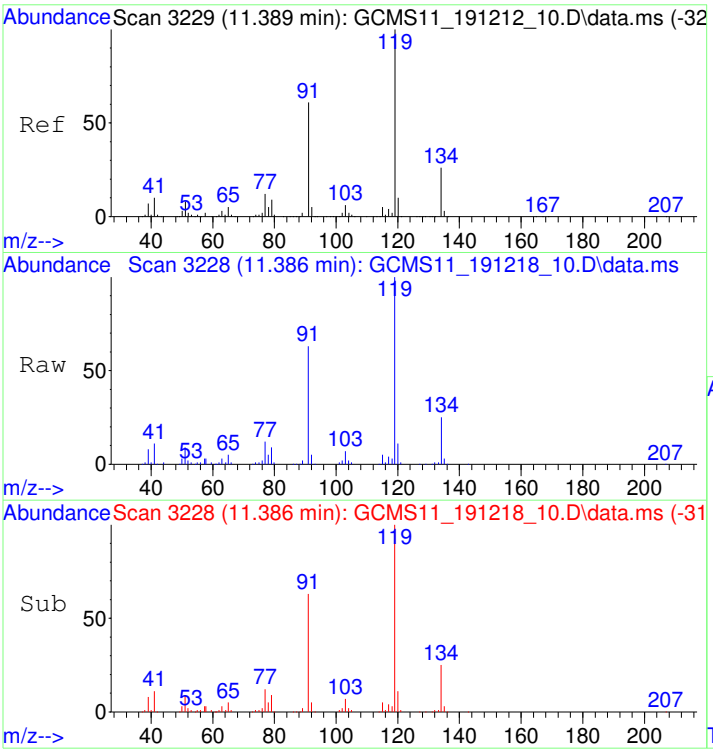


#63
1,1,2,2-Tetrachloroethane
Concen: 133.98 ng
RT: 10.78 min Scan# 3041
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 83 Resp: 48828

Ion	Ratio	Lower	Upper
83	100		
85	66.0	35.1	95.1
131	10.2	0.0	41.4

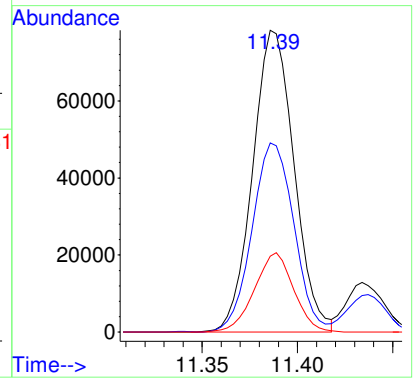


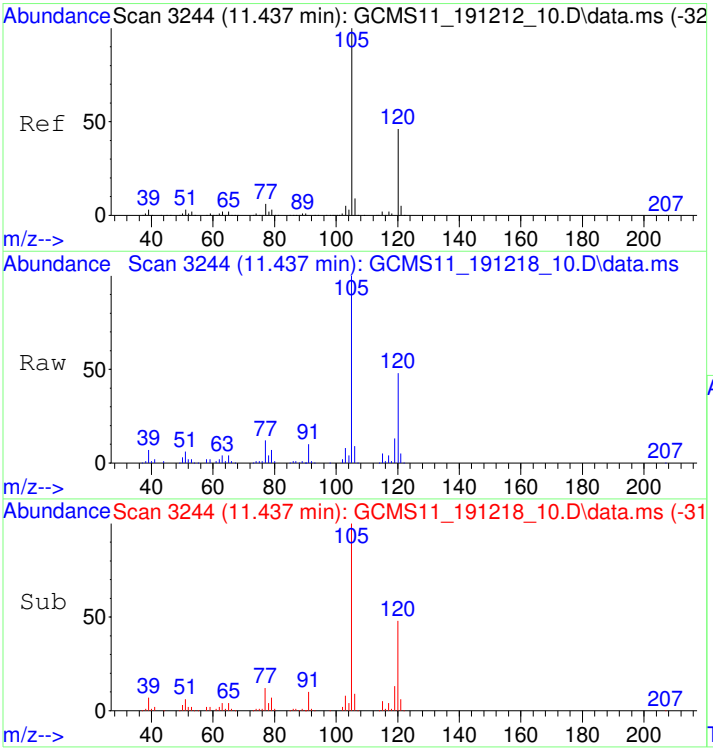


#64
tert-Butylbenzene
Concen: 132.13 ng
RT: 11.39 min Scan# 3228
Delta R.T. -0.003 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:119 Resp: 118400

Ion	Ratio	Lower	Upper
119	100		
91	63.0	31.1	91.1
134	24.9	0.0	55.9

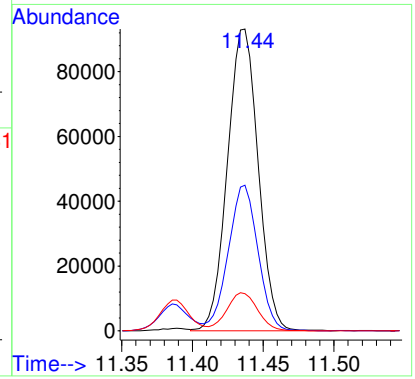


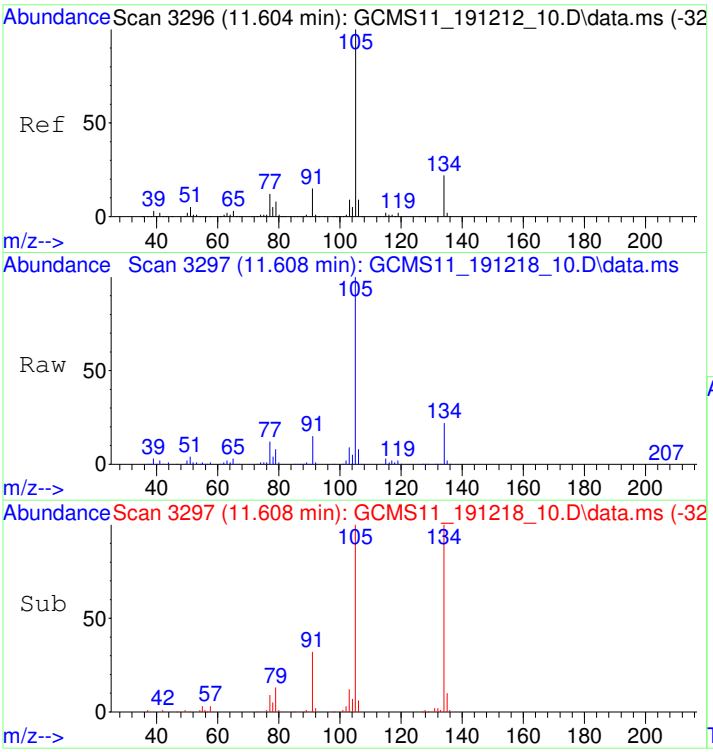


#65
1,2,4-Trimethylbenzene
Concen: 128.51 ng
RT: 11.44 min Scan# 3244
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:105 Resp: 140833

Ion	Ratio	Lower	Upper
105	100		
120	46.5	18.6	78.6
77	12.7	0.0	41.4

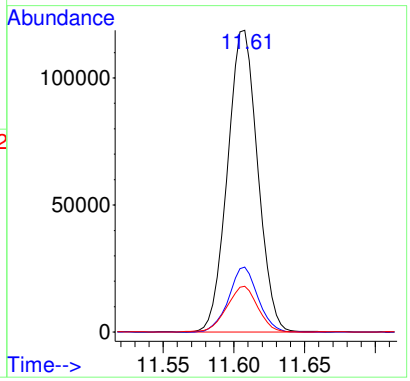


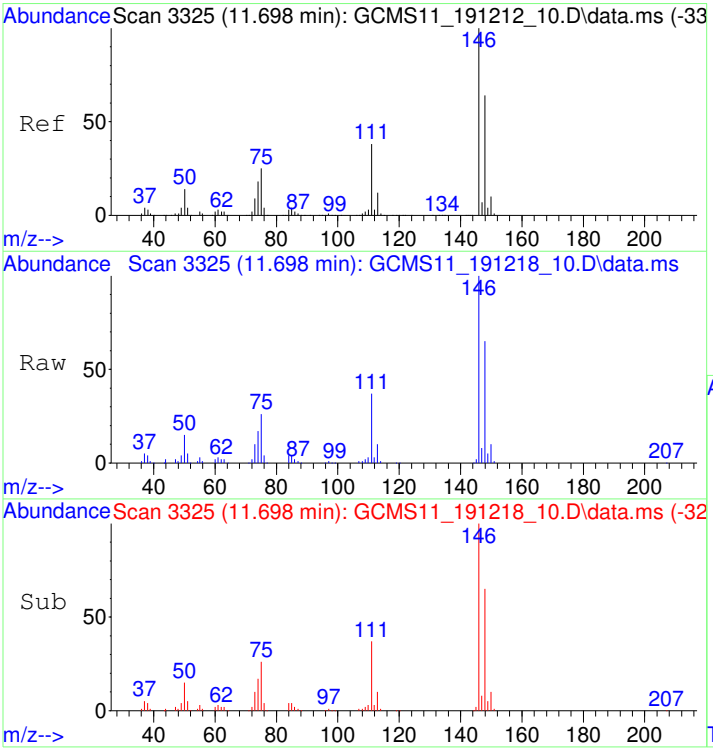


#66
sec-Butylbenzene
Concen: 131.14 ng
RT: 11.61 min Scan# 3297
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:105 Resp: 176347

Ion	Ratio	Lower	Upper
105	100		
134	20.9	0.0	52.3
91	15.7	0.0	45.3

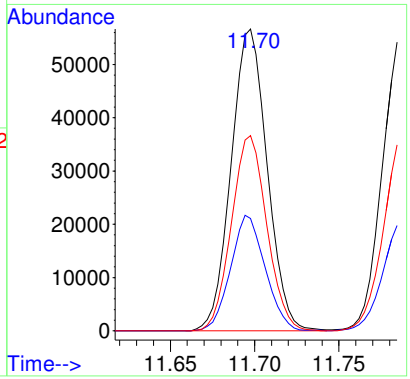


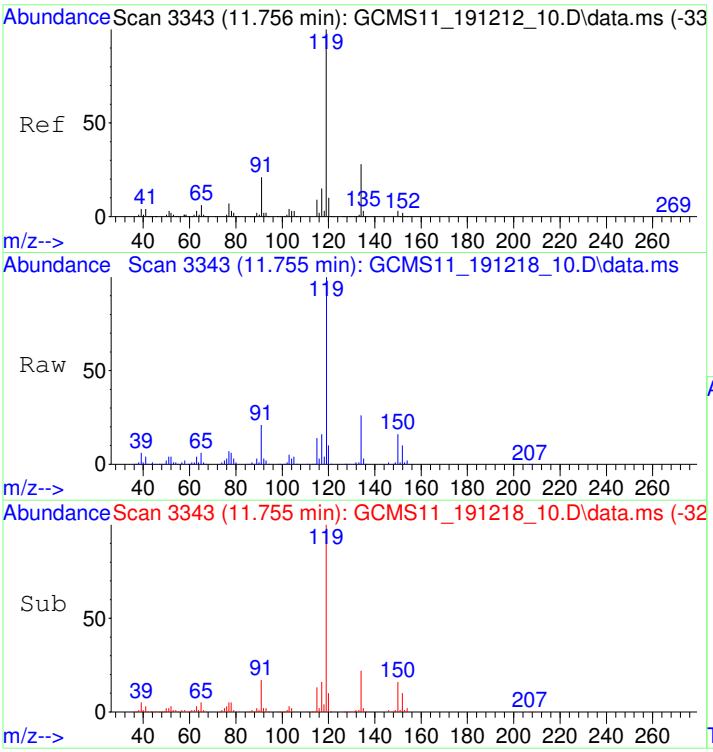


#67
1,3-Dichlorobenzene
Concen: 134.02 ng
RT: 11.70 min Scan# 3325
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:146 Resp: 84030

Ion	Ratio	Lower	Upper
146	100		
111	36.8	7.5	67.5
148	63.4	37.4	97.4

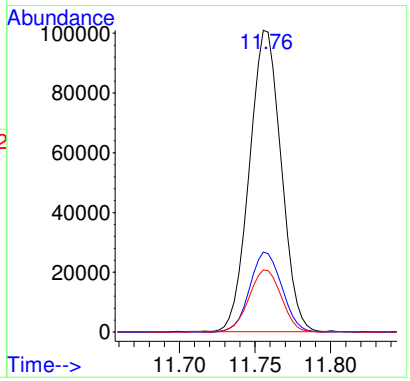


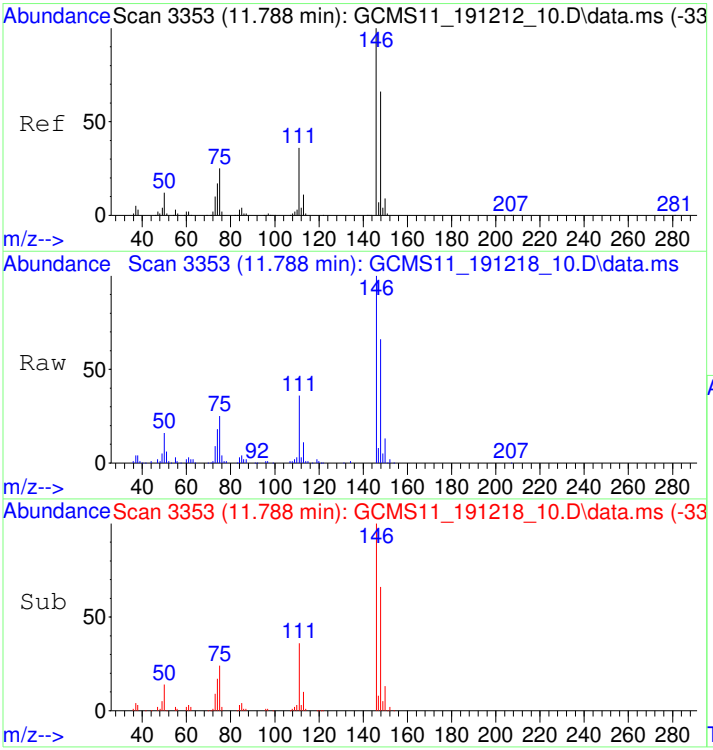


#68
p-Isopropyltoluene
Concen: 125.04 ng
RT: 11.76 min Scan# 3343
Delta R.T. -0.003 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:119 Resp: 147230

Ion	Ratio	Lower	Upper
119	100		
134	26.8	0.0	57.5
91	21.1	0.0	51.3

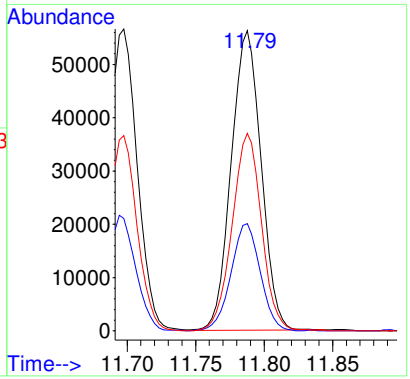


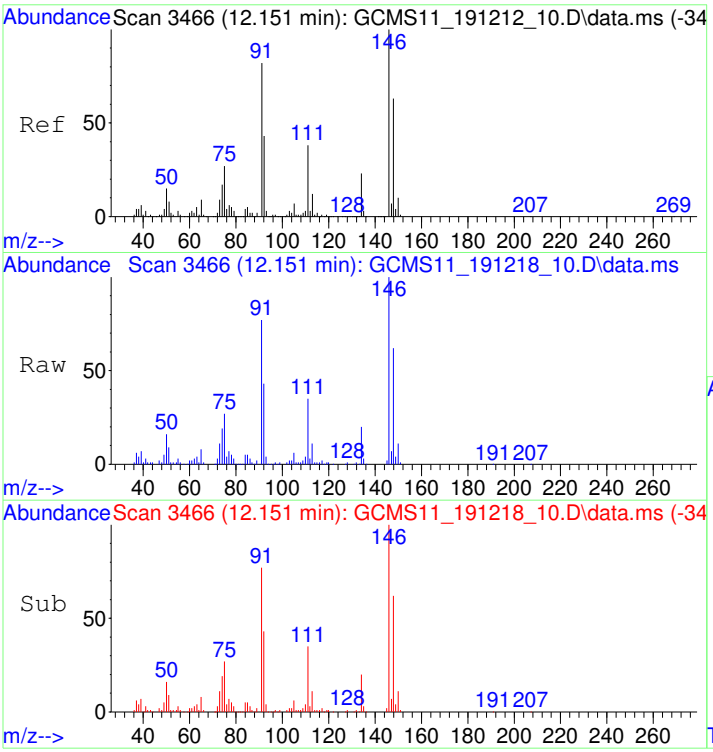


#69
1,4-Dichlorobenzene
Concen: 133.47 ng
RT: 11.79 min Scan# 3353
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:146 Resp: 85188

Ion	Ratio	Lower	Upper
146	100		
111	35.0	3.3	63.3
148	64.9	33.5	93.5

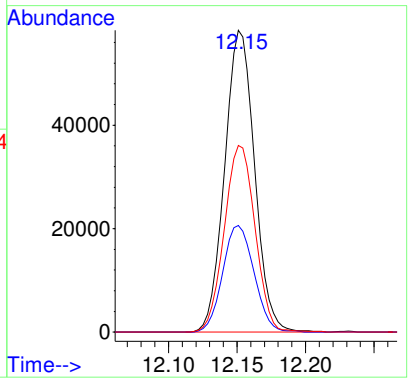


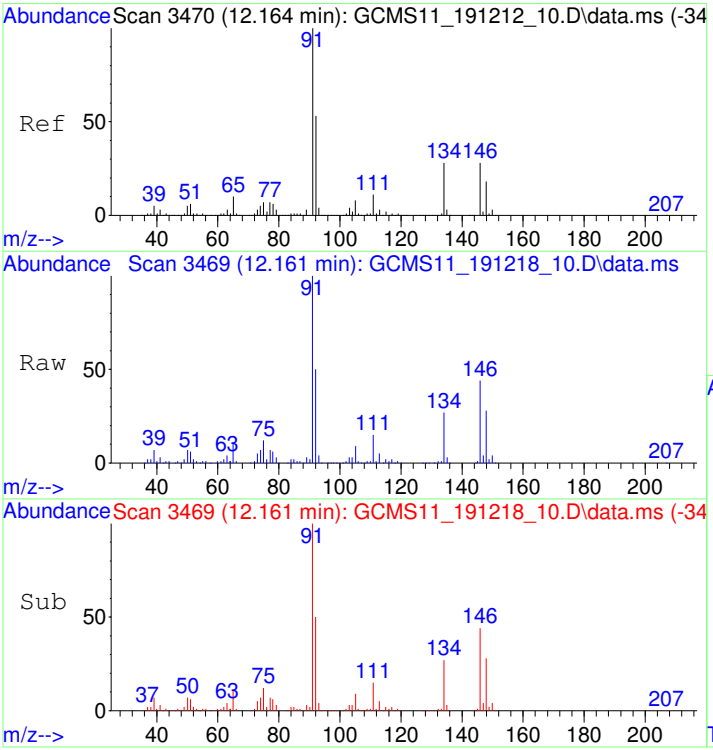


#70
1,2-Dichlorobenzene
Concen: 130.97 ng
RT: 12.15 min Scan# 3466
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:146 Resp: 88793

Ion	Ratio	Lower	Upper
146	100		
111	37.0	8.4	68.4
148	63.6	34.6	94.6

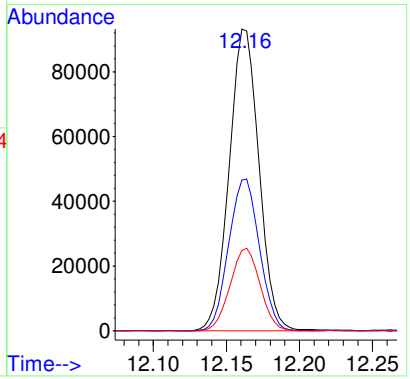


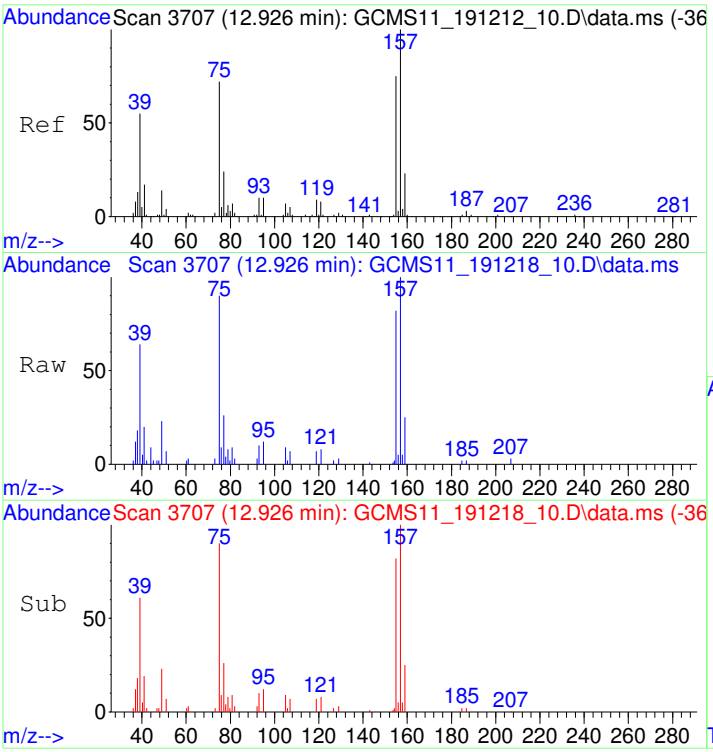


#71
n-Butylbenzene
Concen: 126.64 ng
RT: 12.16 min Scan# 3469
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion: 91 Resp: 132581

Ion	Ratio	Lower	Upper
91	100		
92	51.7	22.0	82.0
134	27.5	0.0	58.4

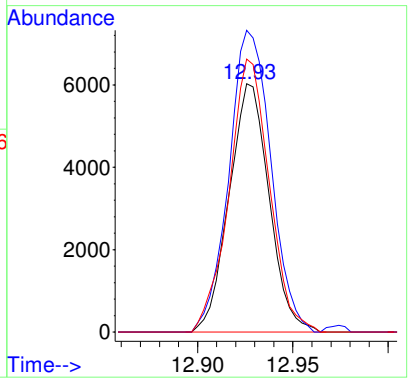


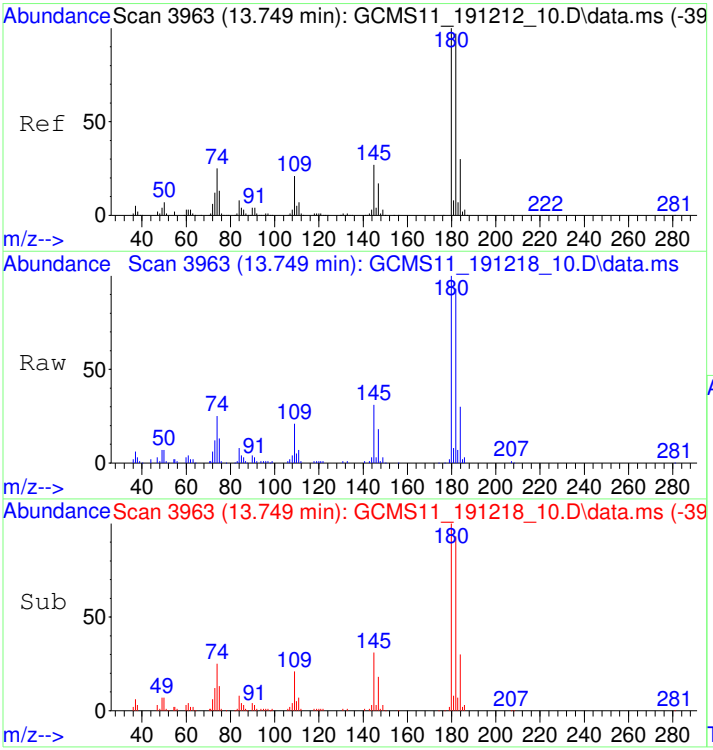


#72
1,2-Dibromo-3-chloropropane
Concen: 126.43 ng
RT: 12.93 min Scan# 3707
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:155 Resp: 8801

Ion	Ratio	Lower	Upper
155	100		
157	127.8	110.8	170.8
75	110.9	79.5	139.5

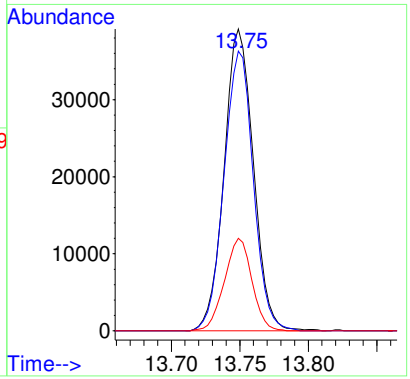


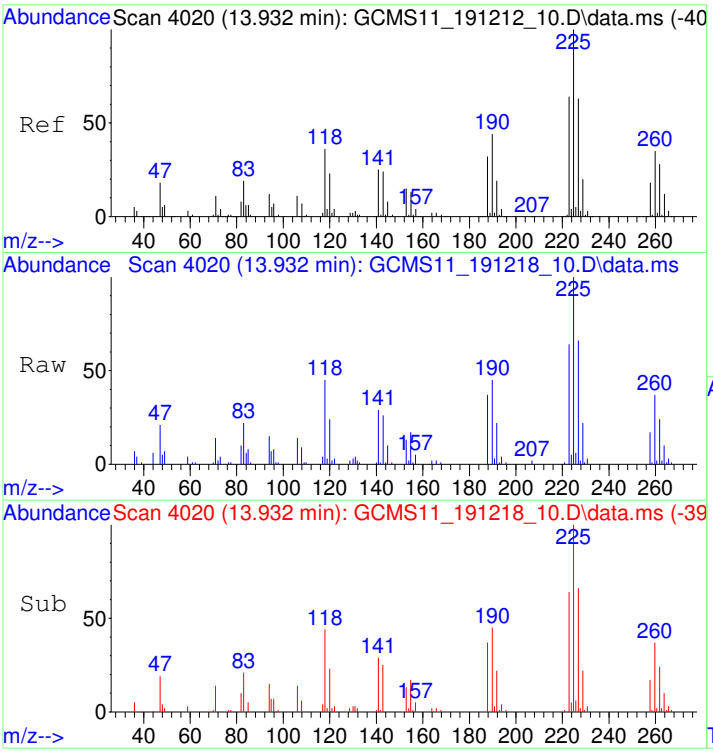


#73
1,2,4-Trichlorobenzene
Concen: 127.32 ng
RT: 13.75 min Scan# 3963
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:180 Resp: 58216

Ion	Ratio	Lower	Upper
180	100		
182	92.6	66.7	126.7
145	28.7	0.0	58.2

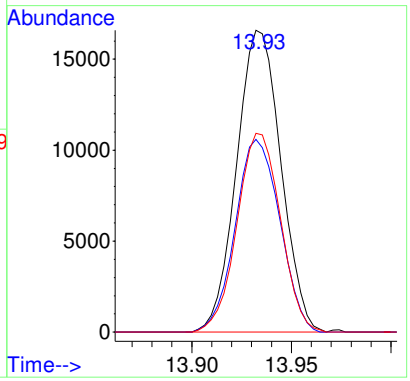


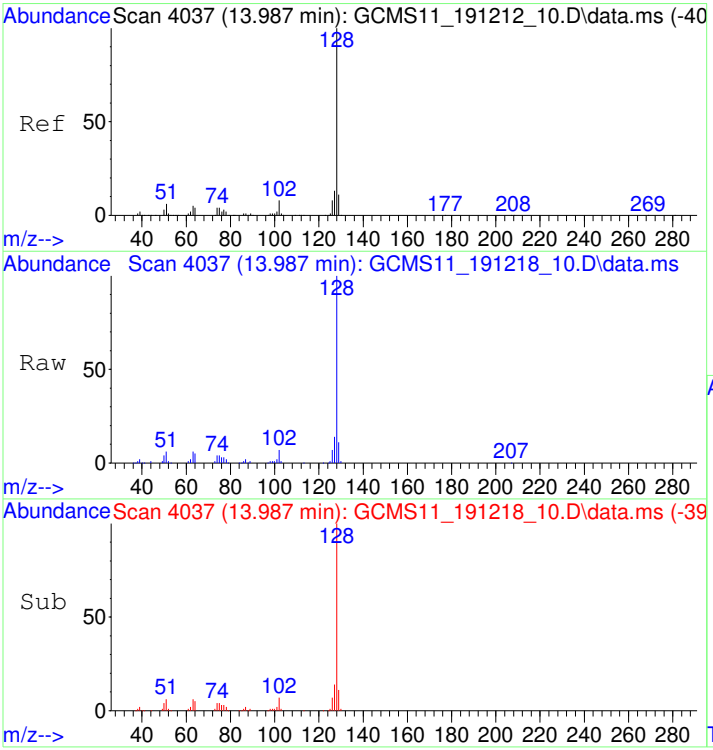


#74
Hexachlorobutadiene
Concen: 120.77 ng
RT: 13.93 min Scan# 4020
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:225 Resp: 25731

Ion	Ratio	Lower	Upper
225	100		
223	64.2	1242.7	1302.7#
227	64.4	19.6	79.6

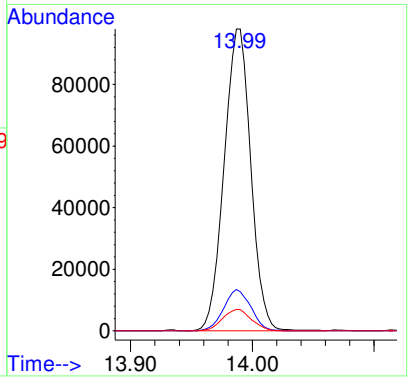


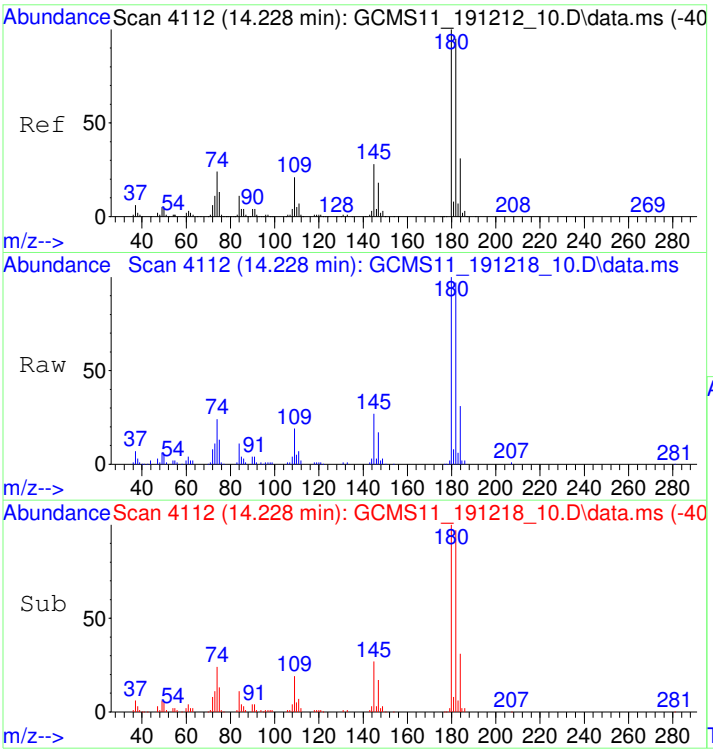


#75
Naphthalene
Concen: 127.37 ng
RT: 13.99 min Scan# 4037
Delta R.T. -0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:128 Resp: 149147

Ion	Ratio	Lower	Upper
128	100		
127	13.9	0.0	43.5
102	7.6	0.0	37.4

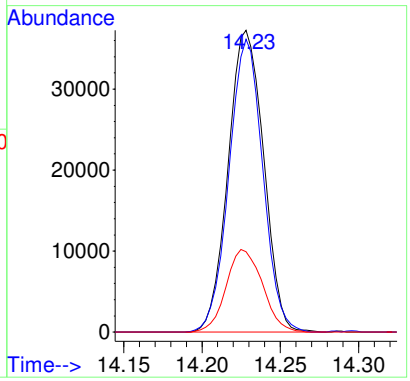




#76
1,2,3-Trichlorobenzene
Concen: 125.27 ng
RT: 14.23 min Scan# 4112
Delta R.T. 0.000 min
Lab File: GCMS11_191218_10.D
Acq: 18 Dec 2019 9:38 pm

Tgt Ion:180 Resp: 58786

Ion	Ratio	Lower	Upper
180	100		
182	92.4	66.7	126.7
145	28.0	0.0	58.4



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_30.D
Acq On : 17 Dec 2019 3:20 am
Operator : ko
Sample : 1912013-01
Misc : LIMS 19L1101
ALS Vial : 23 Sample Multiplier: 1

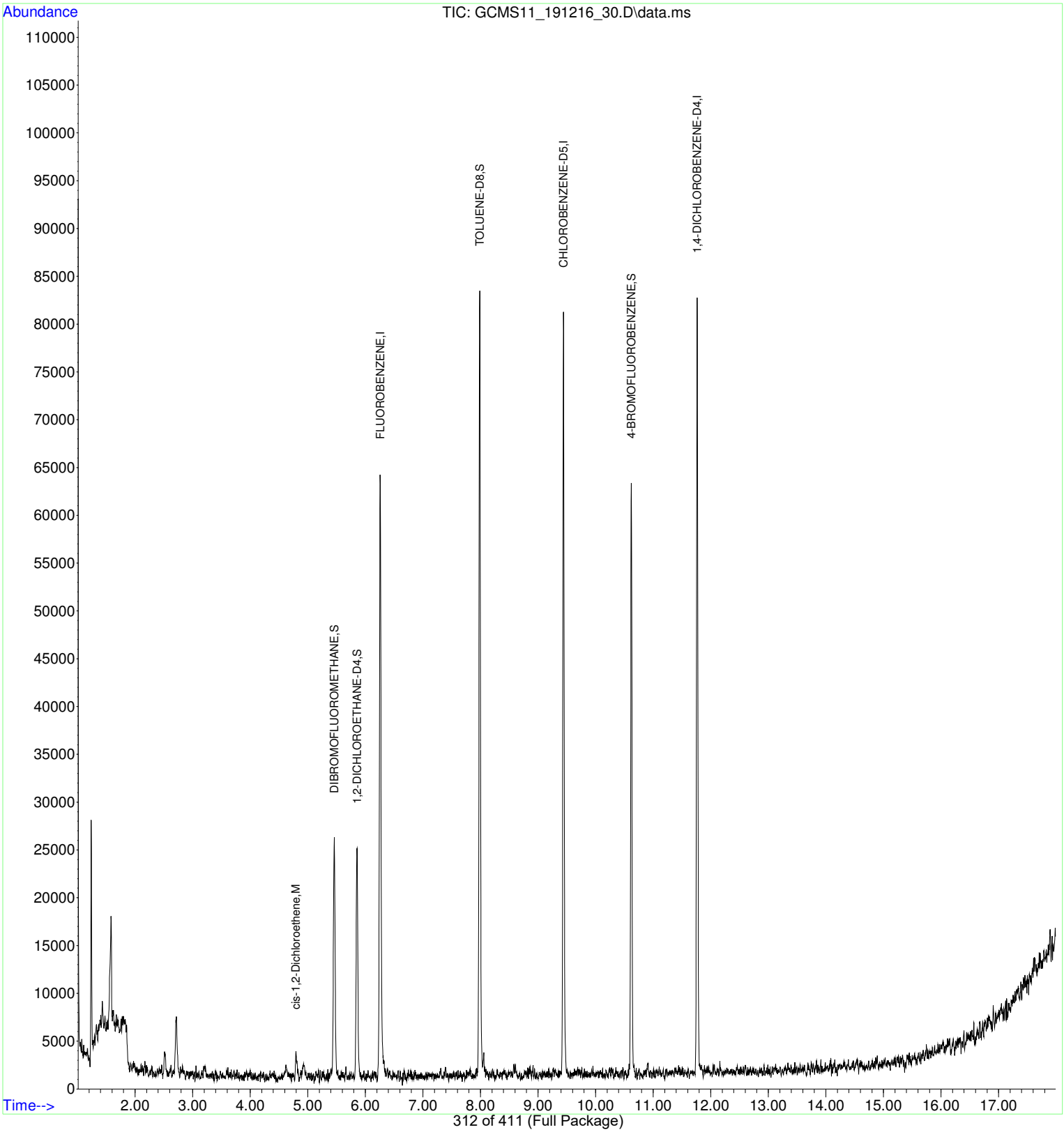
Quant Time: Dec 17 14:55:10 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

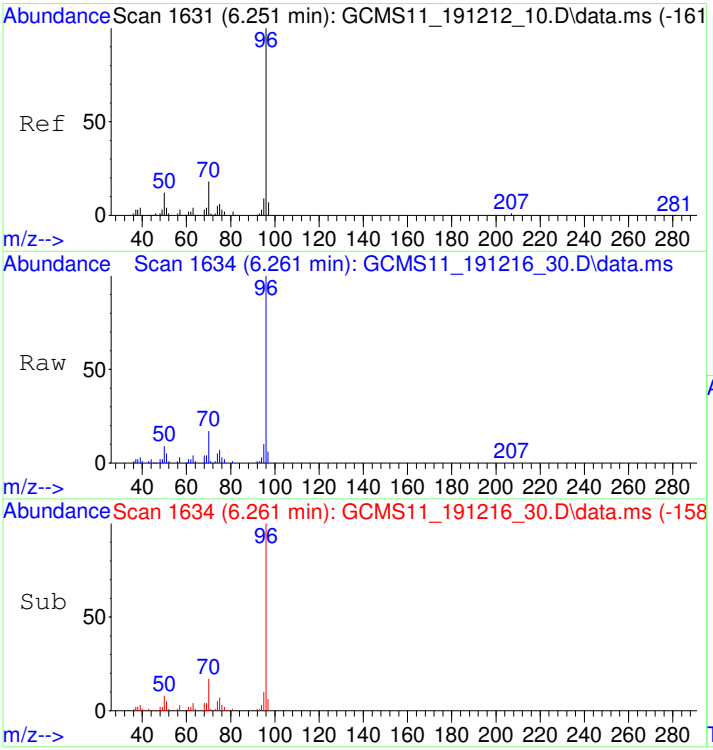
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) FLUOROBENZENE	6.26	96	56210	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	21020	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	21529	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.46	113	14846	50.29 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.86	65	17709	50.33 ng	0.00
37) TOLUENE-D8	7.99	98	55086	49.83 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	17203	45.14 ng	0.00
Target Compounds					Qvalue
18) cis-1,2-Dichloroethene	4.79	96	1204m	3.39 ng	

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

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_30.D
Acq On : 17 Dec 2019 3:20 am
Operator : ko
Sample : 1912013-01
Misc : LIMS 19L1101
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 17 14:55:10 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

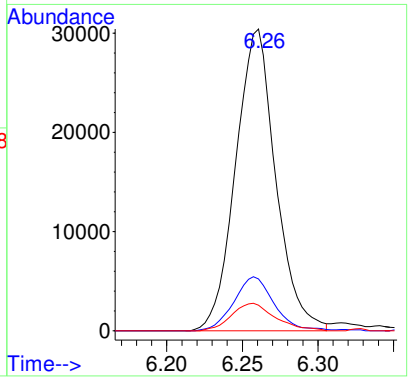


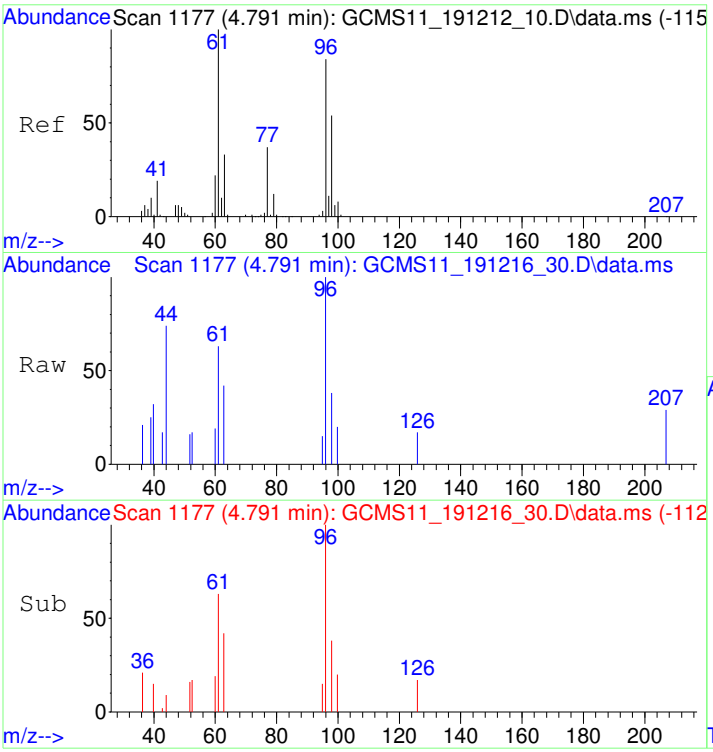


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.26 min Scan# 1634
Delta R.T. 0.004 min
Lab File: GCMS11_191216_30.D
Acq: 17 Dec 2019 3:20 am

Tgt Ion: 96 Resp: 56210

Ion	Ratio	Lower	Upper
96	100		
70	18.0	0.0	48.3
50	10.0	0.0	39.5

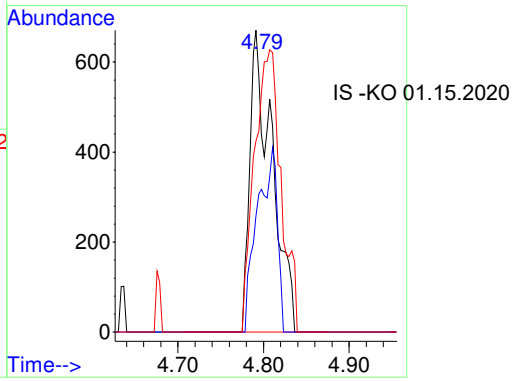


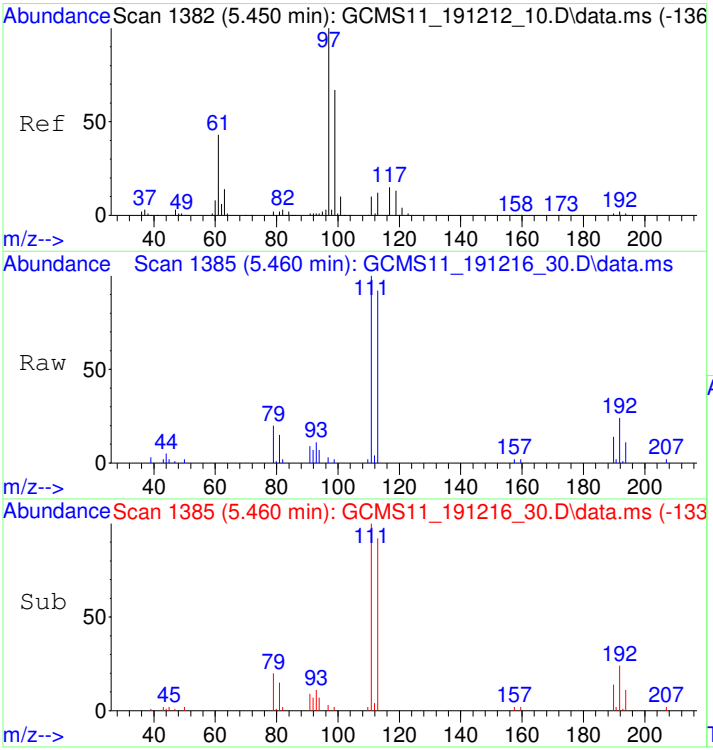


#18
cis-1,2-Dichloroethene
Concen: 3.39 ng m
RT: 4.79 min Scan# 1177
Delta R.T. -0.010 min
Lab File: GCMS11_191216_30.D
Acq: 17 Dec 2019 3:20 am

Tgt Ion: 96 Resp: 1204

Ion	Ratio	Lower	Upper
96	100		
98	31.6	30.6	90.6
61	0.0	96.6	156.6#

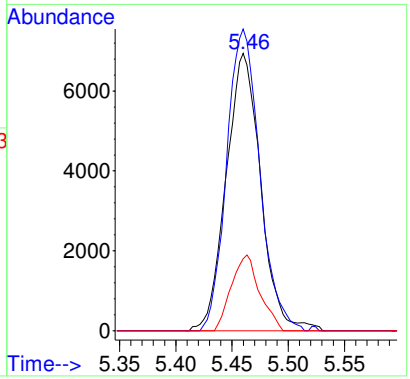


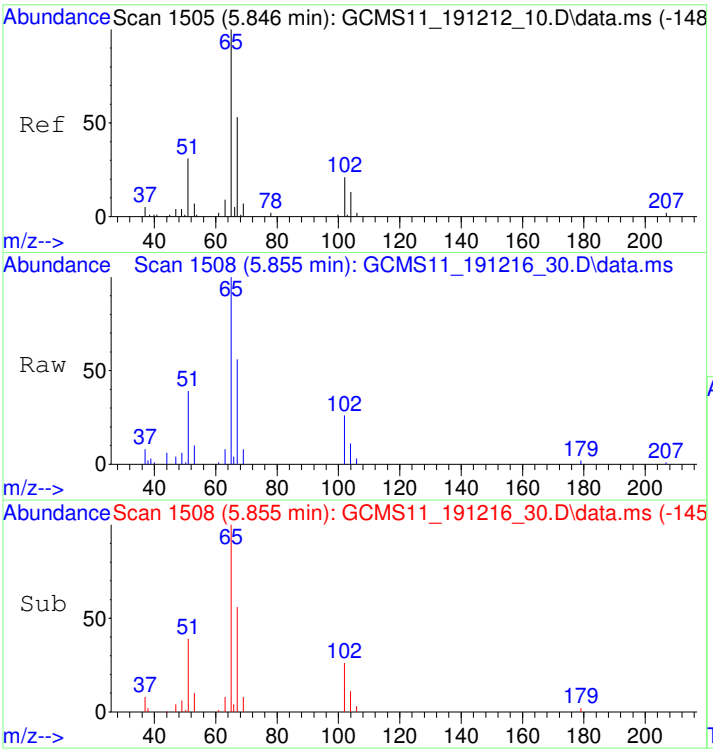


#22
DIBROMOFLUOROMETHANE
Concen: 50.29 ng
RT: 5.46 min Scan# 1385
Delta R.T. 0.000 min
Lab File: GCMS11_191216_30.D
Acq: 17 Dec 2019 3:20 am

Tgt Ion:113 Resp: 14846

Ion	Ratio	Lower	Upper
113	100		
111	104.0	75.2	135.2
192	22.4	0.0	52.1

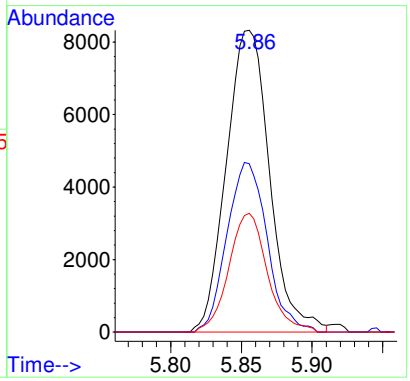


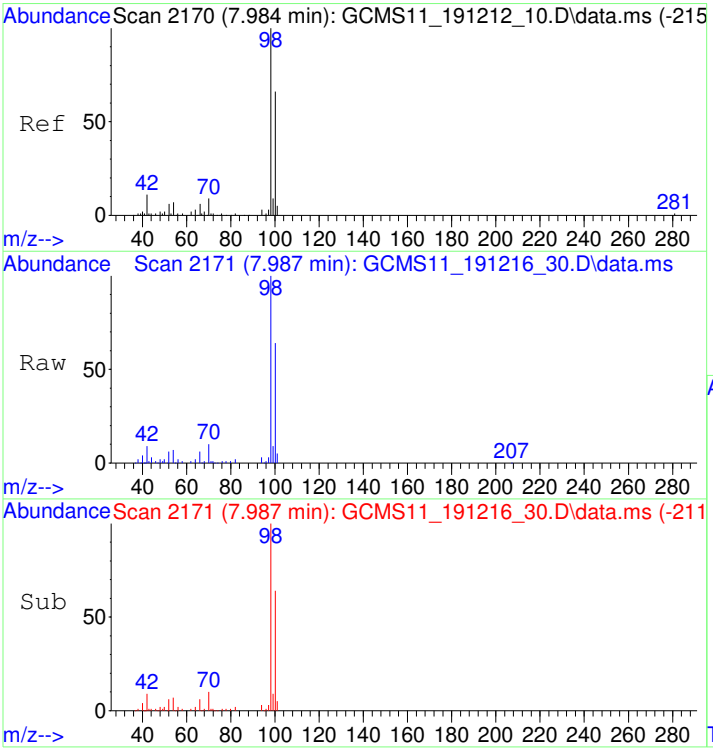


#26
1,2-DICHLOROETHANE-D4
Concen: 50.33 ng
RT: 5.86 min Scan# 1508
Delta R.T. 0.003 min
Lab File: GCMS11_191216_30.D
Acq: 17 Dec 2019 3:20 am

Tgt Ion: 65 Resp: 17709

Ion	Ratio	Lower	Upper
65	100		
67	52.2	15.4	75.4
51	35.1	2.7	62.7

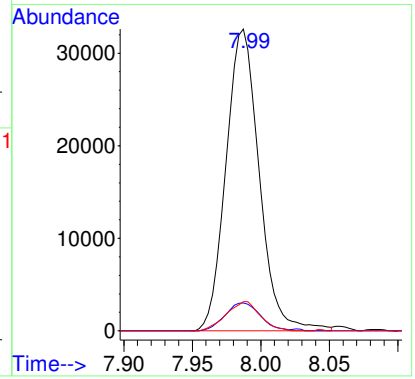


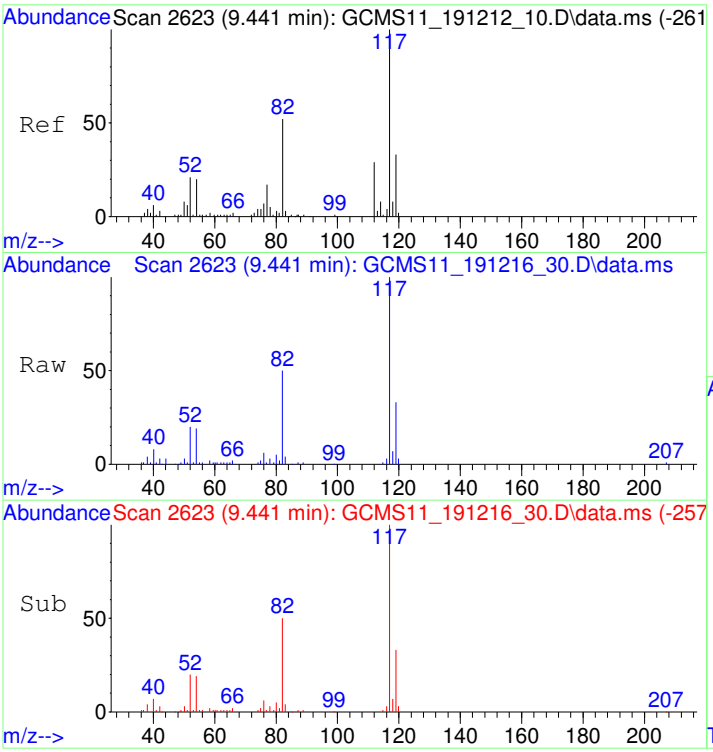


#37
TOLUENE-D8
Concen: 49.83 ng
RT: 7.99 min Scan# 2171
Delta R.T. 0.003 min
Lab File: GCMS11_191216_30.D
Acq: 17 Dec 2019 3:20 am

Tgt Ion: 98 Resp: 55086

Ion	Ratio	Lower	Upper
98	100		
99	9.8	0.0	39.8
70	9.9	0.0	40.7

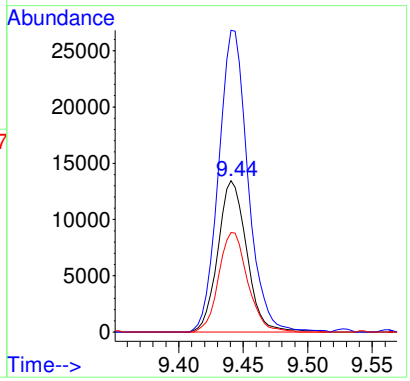


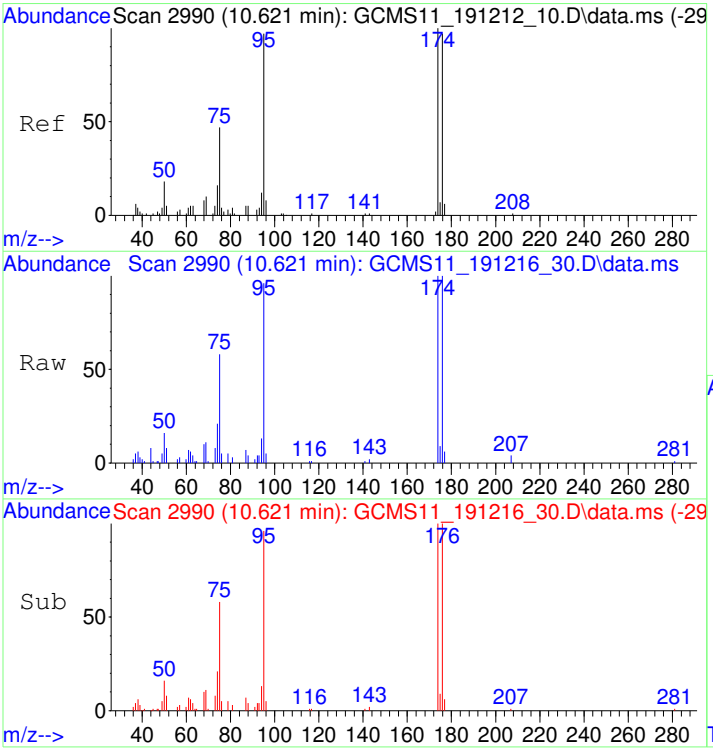


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.001 min
Lab File: GCMS11_191216_30.D
Acq: 17 Dec 2019 3:20 am

Tgt Ion: 82 Resp: 21020

Ion	Ratio	Lower	Upper
82	100		
117	202.6	160.7	220.7
119	65.9	33.5	93.5

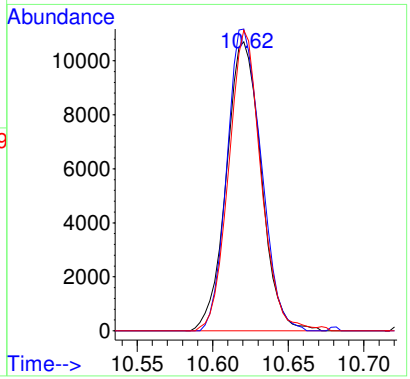


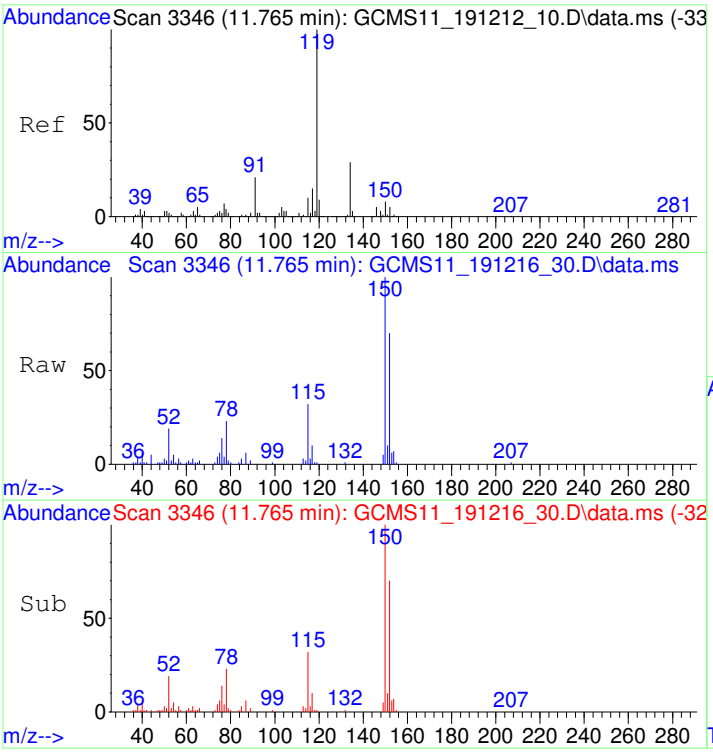


#55
4-BROMOFLUOROBENZENE
Concen: 45.14 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191216_30.D
Acq: 17 Dec 2019 3:20 am

Tgt Ion: 95 Resp: 17203

Ion	Ratio	Lower	Upper
95	100		
174	102.0	68.5	128.5
176	96.6	66.8	126.8

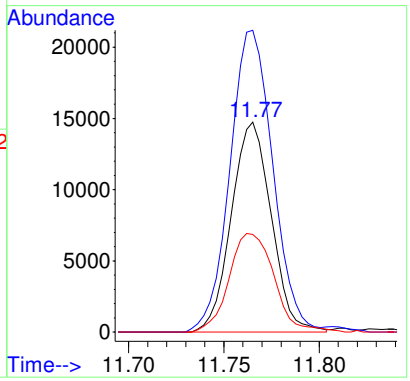




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191216_30.D
Acq: 17 Dec 2019 3:20 am

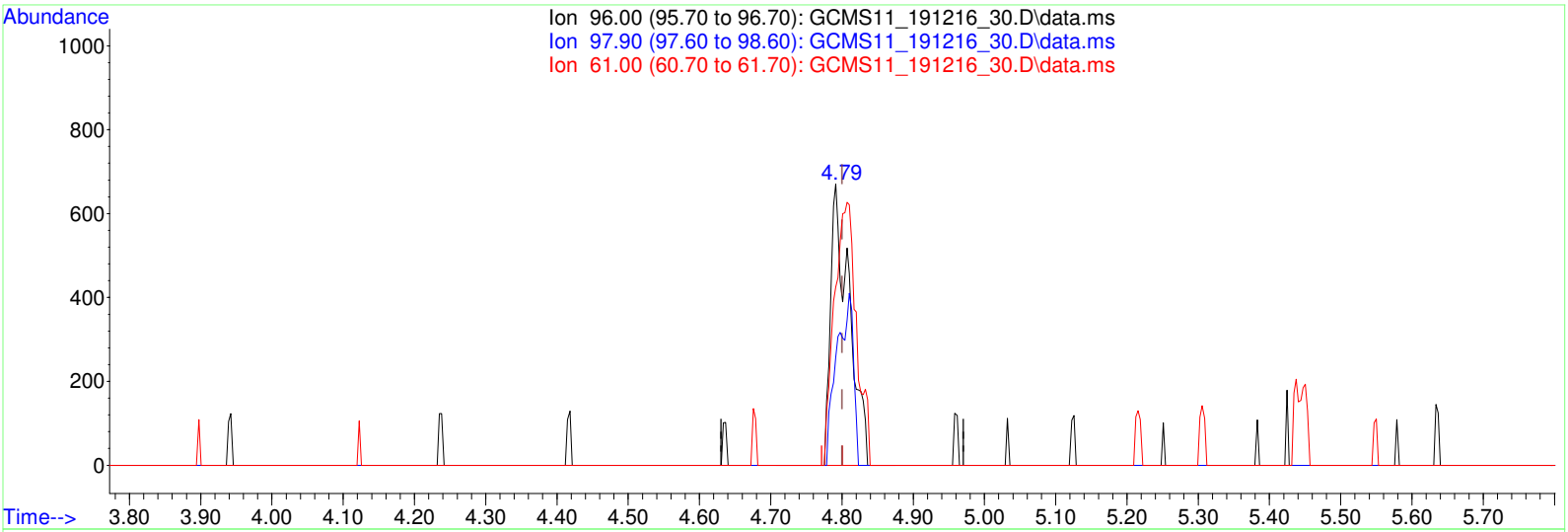
Tgt Ion:152 Resp: 21529

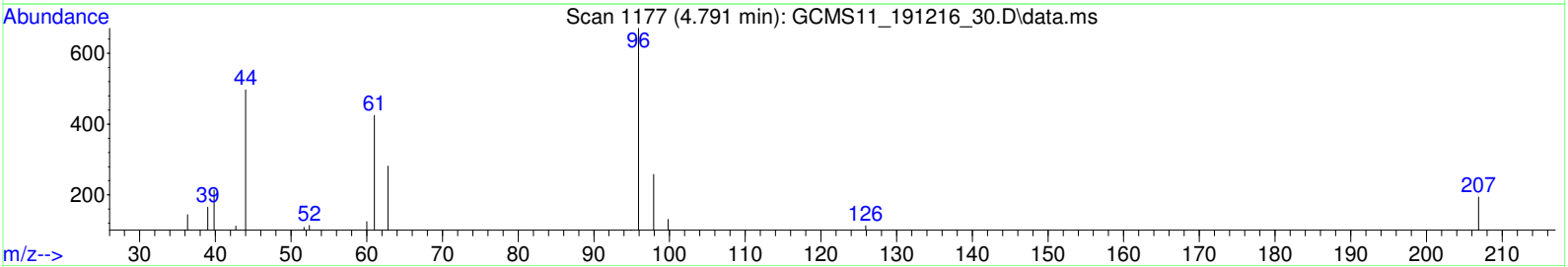
Ion	Ratio	Lower	Upper
152	100		
150	154.0	162.5	222.5#
115	52.8	82.3	142.3#

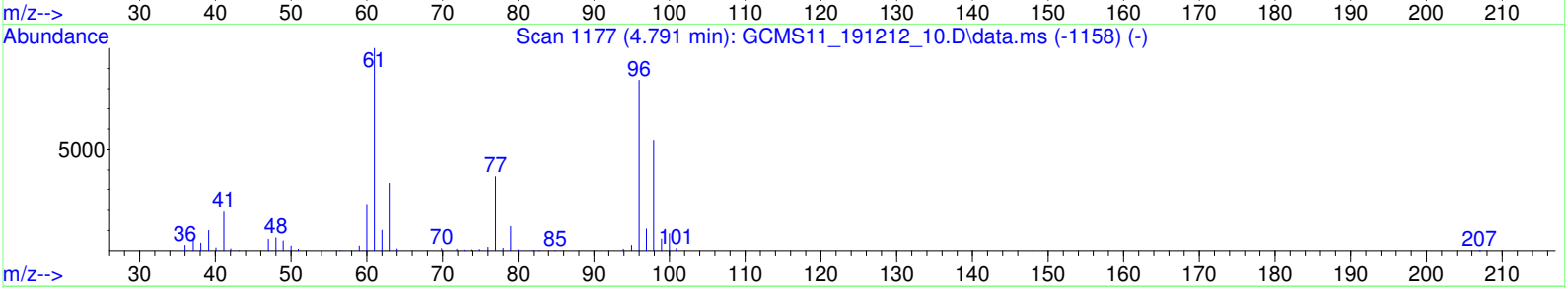


Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_30.D
Acq On : 17 Dec 2019 3:20 am
Operator : ko
Sample : 1912013-01
Misc : LIMS 19L1101
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 17 14:53:28 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration







TIC: GCMS11_191216_30.D\data.ms

(18) cis-1,2-Dichloroethene (M)

4.791min (-0.010) 3.39 ng m

response 1204

Ion	Exp%	Act%
96.00	100.00	100.00
97.90	60.60	31.64
61.00	126.60	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_31.D
Acq On : 17 Dec 2019 3:51 am
Operator : ko
Sample : 1912013-02
Misc : LIMS 19L1101, 50X ATOMX DILUTION
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 17 14:56:41 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

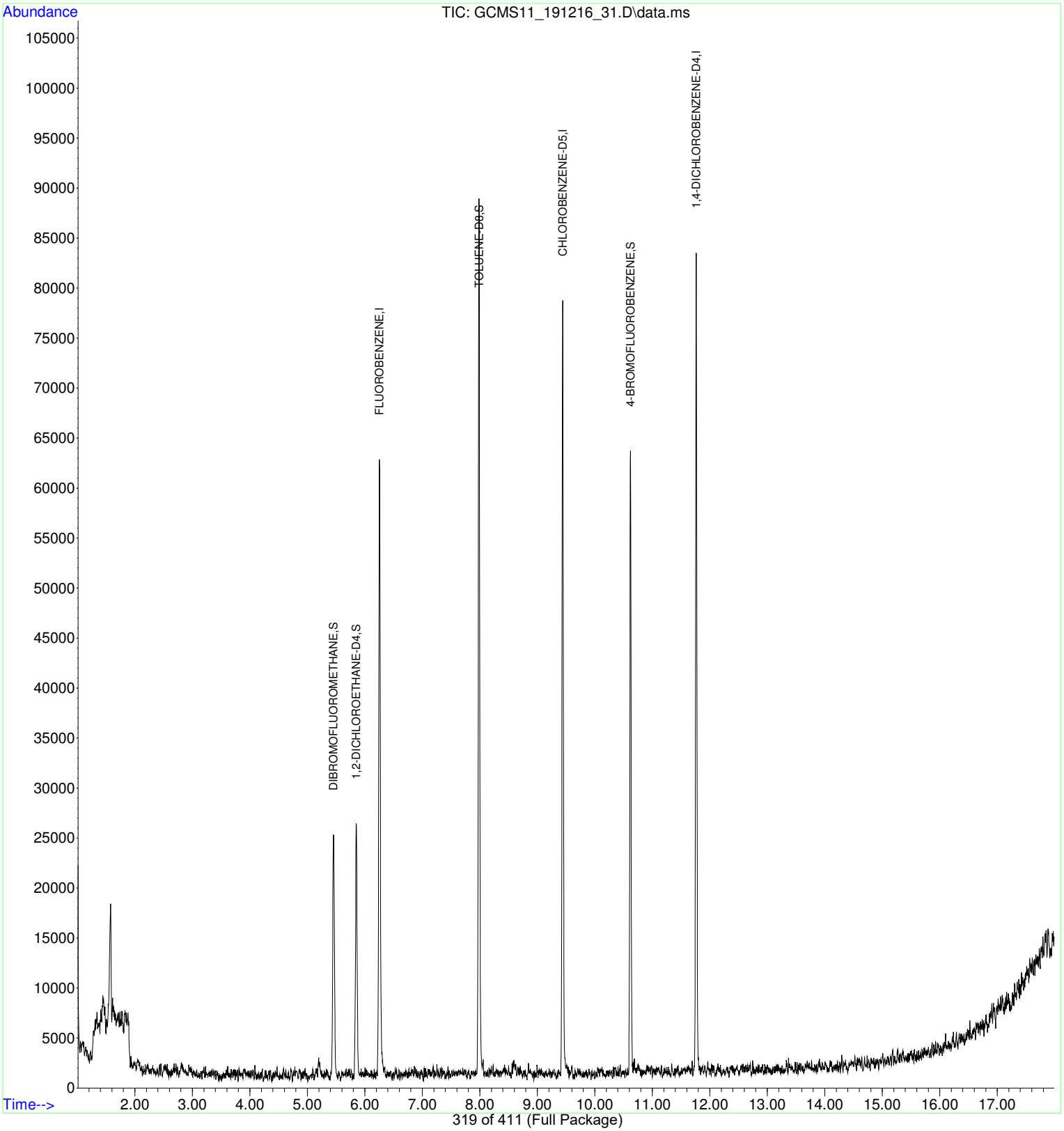
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.25	96	54663	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	22615	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	20626	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.45	113	14256	49.66	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	17567	51.34	ng	0.00
37) TOLUENE-D8	7.99	98	56845	52.88	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	17912	43.68	ng	0.00

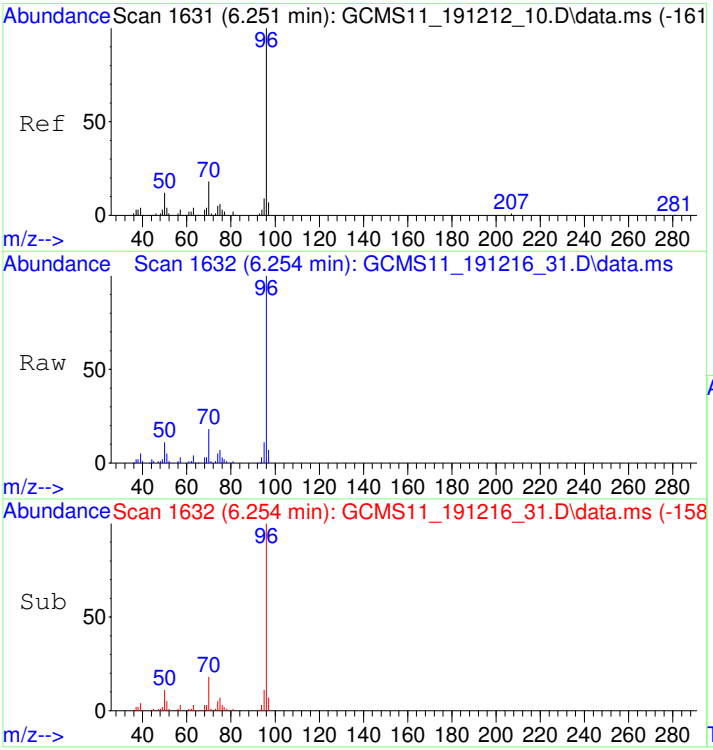
Target Compounds	Qvalue

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

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_31.D
Acq On : 17 Dec 2019 3:51 am
Operator : ko
Sample : 1912013-02
Misc : LIMS 19L1101, 50X ATOMX DILUTION
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 17 14:56:41 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

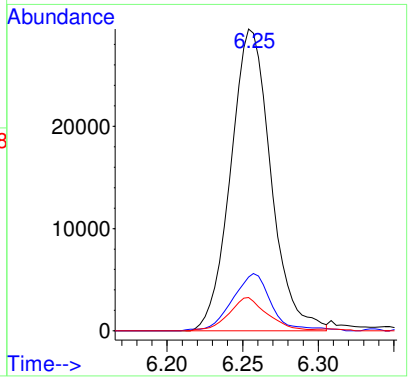


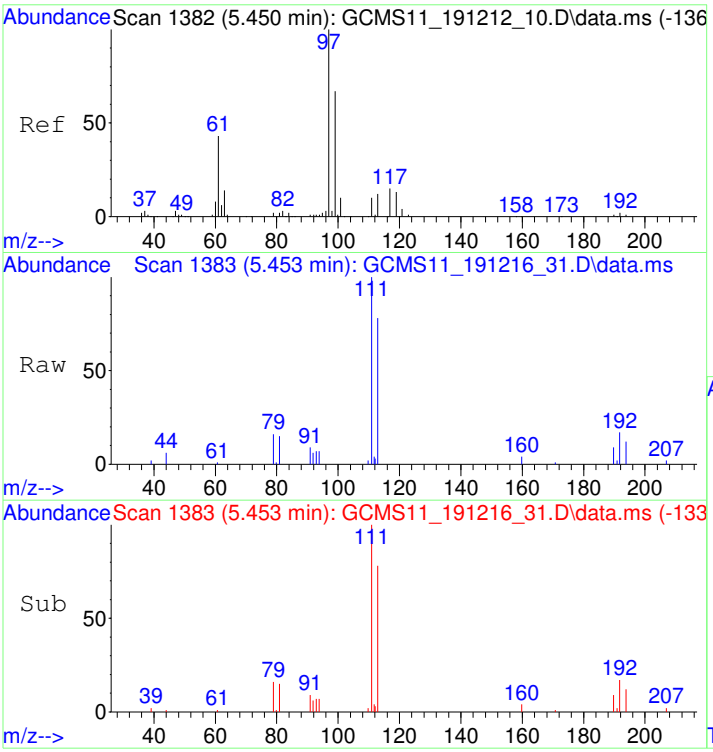


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191216_31.D
Acq: 17 Dec 2019 3:51 am

Tgt Ion: 96 Resp: 54663

Ion	Ratio	Lower	Upper
96	100		
70	18.5	0.0	48.3
50	10.6	0.0	39.5

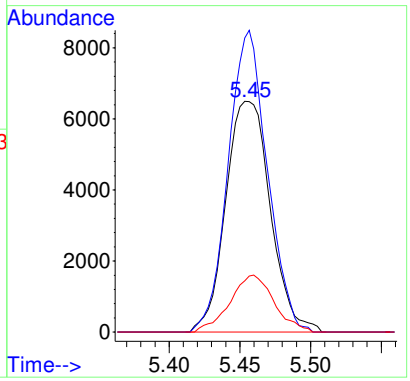


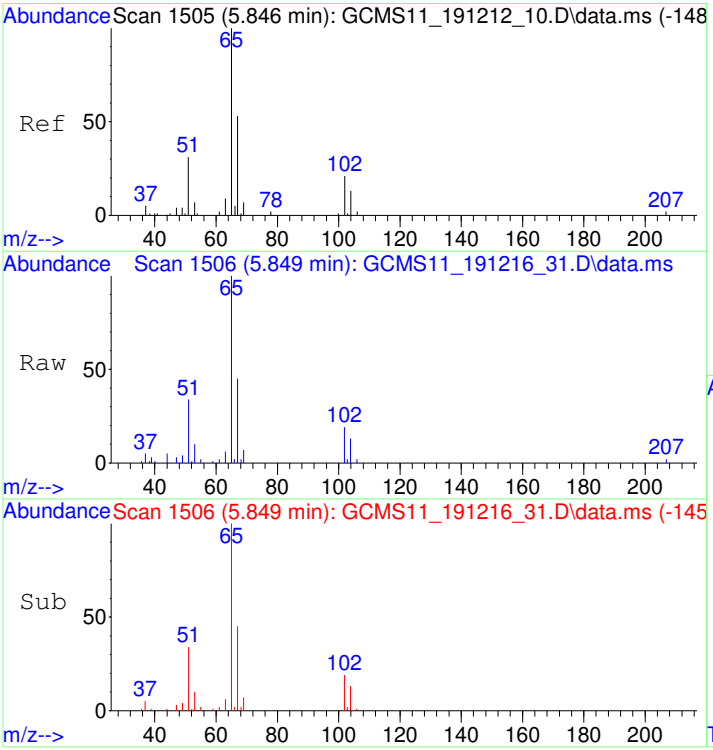


#22
DIBROMOFLUOROMETHANE
Concen: 49.66 ng
RT: 5.45 min Scan# 1383
Delta R.T. -0.006 min
Lab File: GCMS11_191216_31.D
Acq: 17 Dec 2019 3:51 am

Tgt Ion:113 Resp: 14256

Ion	Ratio	Lower	Upper
113	100		
111	114.7	75.2	135.2
192	24.4	0.0	52.1

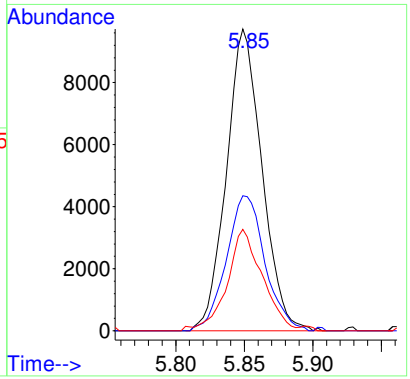


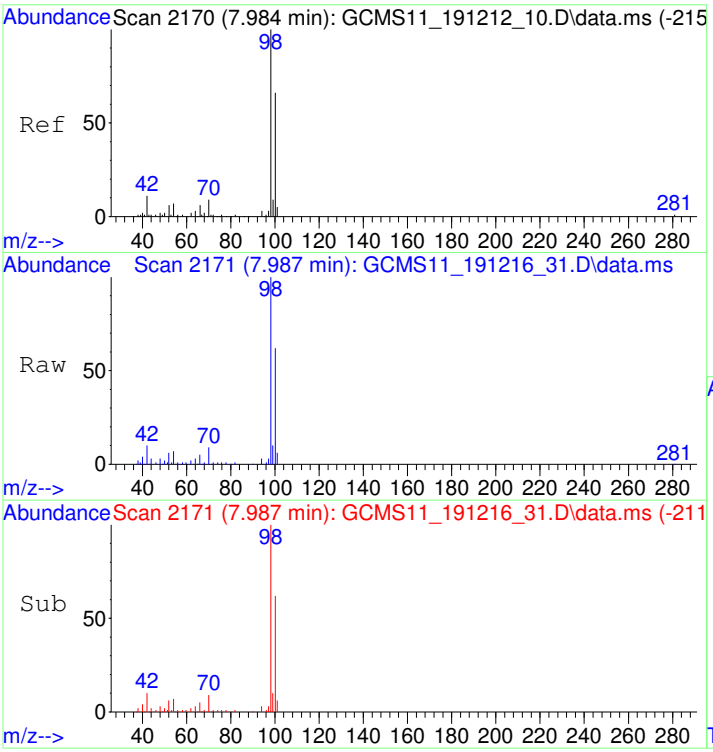


#26
1,2-DICHLOROETHANE-D4
Concen: 51.34 ng
RT: 5.85 min Scan# 1506
Delta R.T. -0.003 min
Lab File: GCMS11_191216_31.D
Acq: 17 Dec 2019 3:51 am

Tgt Ion: 65 Resp: 17567

Ion	Ratio	Lower	Upper
65	100		
67	48.6	15.4	75.4
51	33.2	2.7	62.7

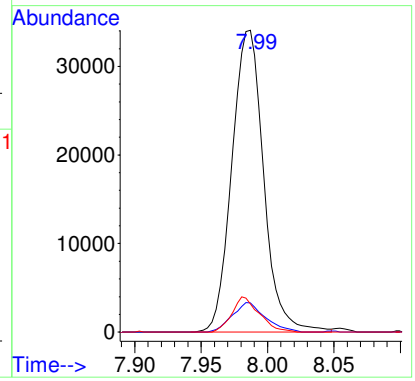


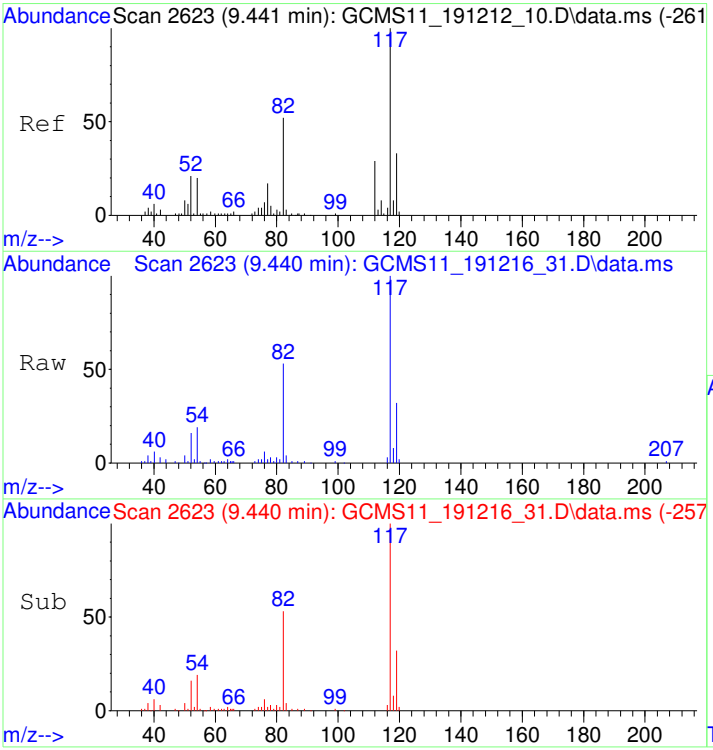


#37
TOLUENE-D8
Concen: 52.88 ng
RT: 7.99 min Scan# 2171
Delta R.T. 0.003 min
Lab File: GCMS11_191216_31.D
Acq: 17 Dec 2019 3:51 am

Tgt Ion: 98 Resp: 56845

Ion	Ratio	Lower	Upper
98	100		
99	10.2	0.0	39.8
70	10.0	0.0	40.7

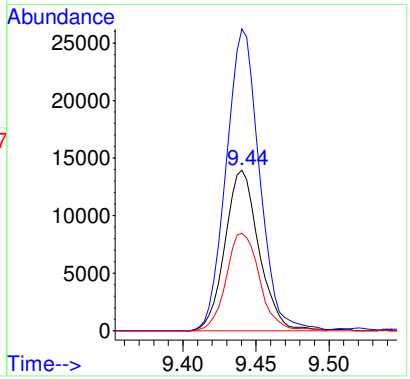


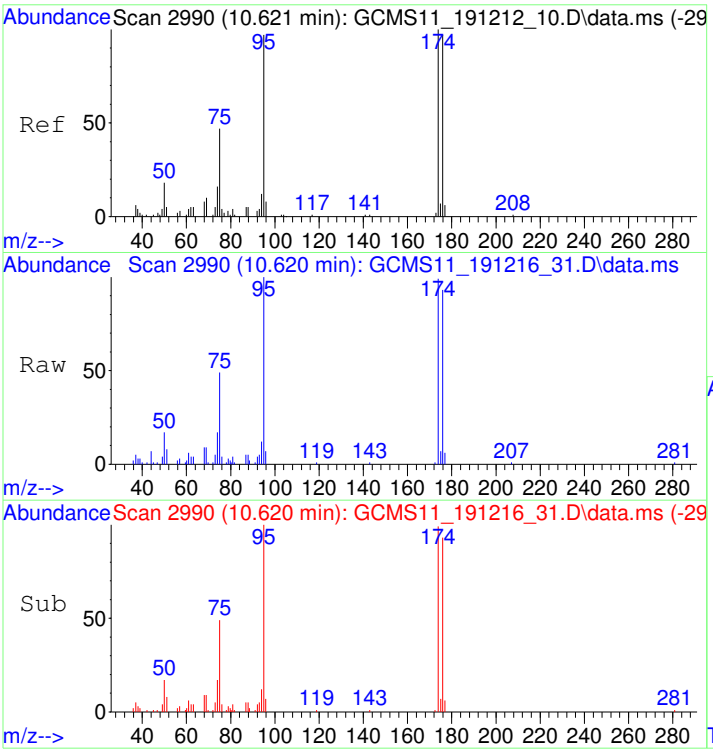


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191216_31.D
Acq: 17 Dec 2019 3:51 am

Tgt Ion: 82 Resp: 22615

Ion	Ratio	Lower	Upper
82	100		
117	184.0	160.7	220.7
119	60.1	33.5	93.5

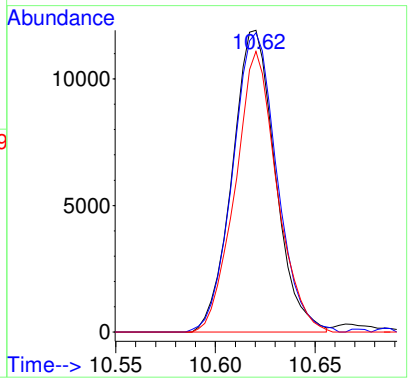


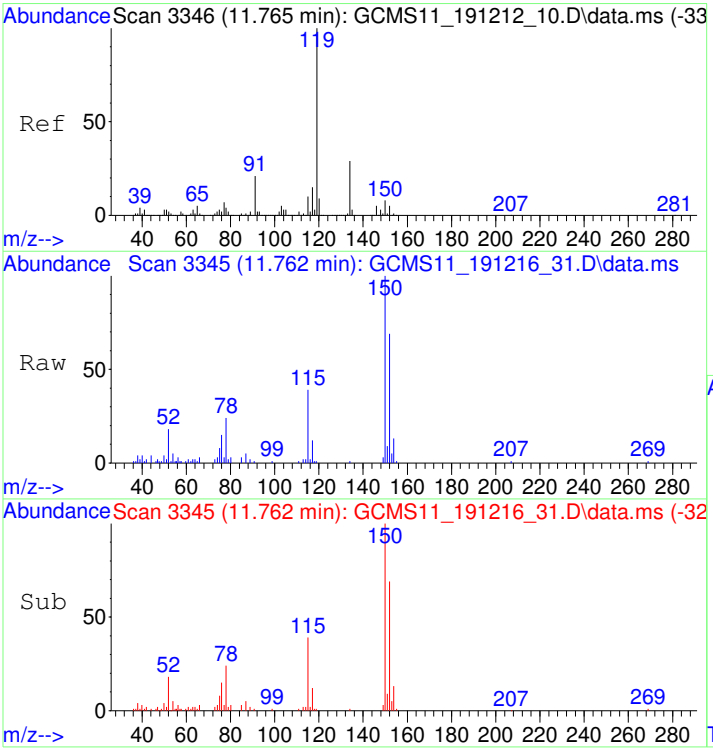


#55
4-BROMOFLUOROBENZENE
Concen: 43.68 ng
RT: 10.62 min Scan# 2990
Delta R.T. -0.000 min
Lab File: GCMS11_191216_31.D
Acq: 17 Dec 2019 3:51 am

Tgt Ion: 95 Resp: 17912

Ion	Ratio	Lower	Upper
95	100		
174	101.8	68.5	128.5
176	90.1	66.8	126.8

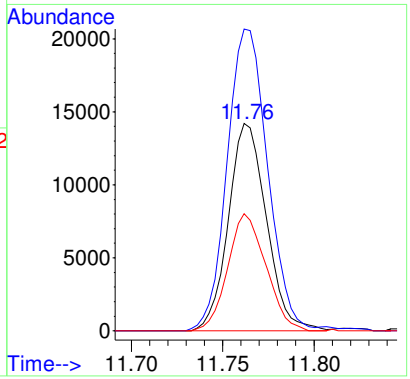




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.76 min Scan# 3345
Delta R.T. -0.003 min
Lab File: GCMS11_191216_31.D
Acq: 17 Dec 2019 3:51 am

Tgt Ion:152 Resp: 20626

Ion	Ratio	Lower	Upper
152	100		
150	154.5	162.5	222.5#
115	56.5	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_04.D
Acq On : 18 Dec 2019 6:48 pm
Operator : ko
Sample : 1912013-02RE1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 3 Sample Multiplier: 1

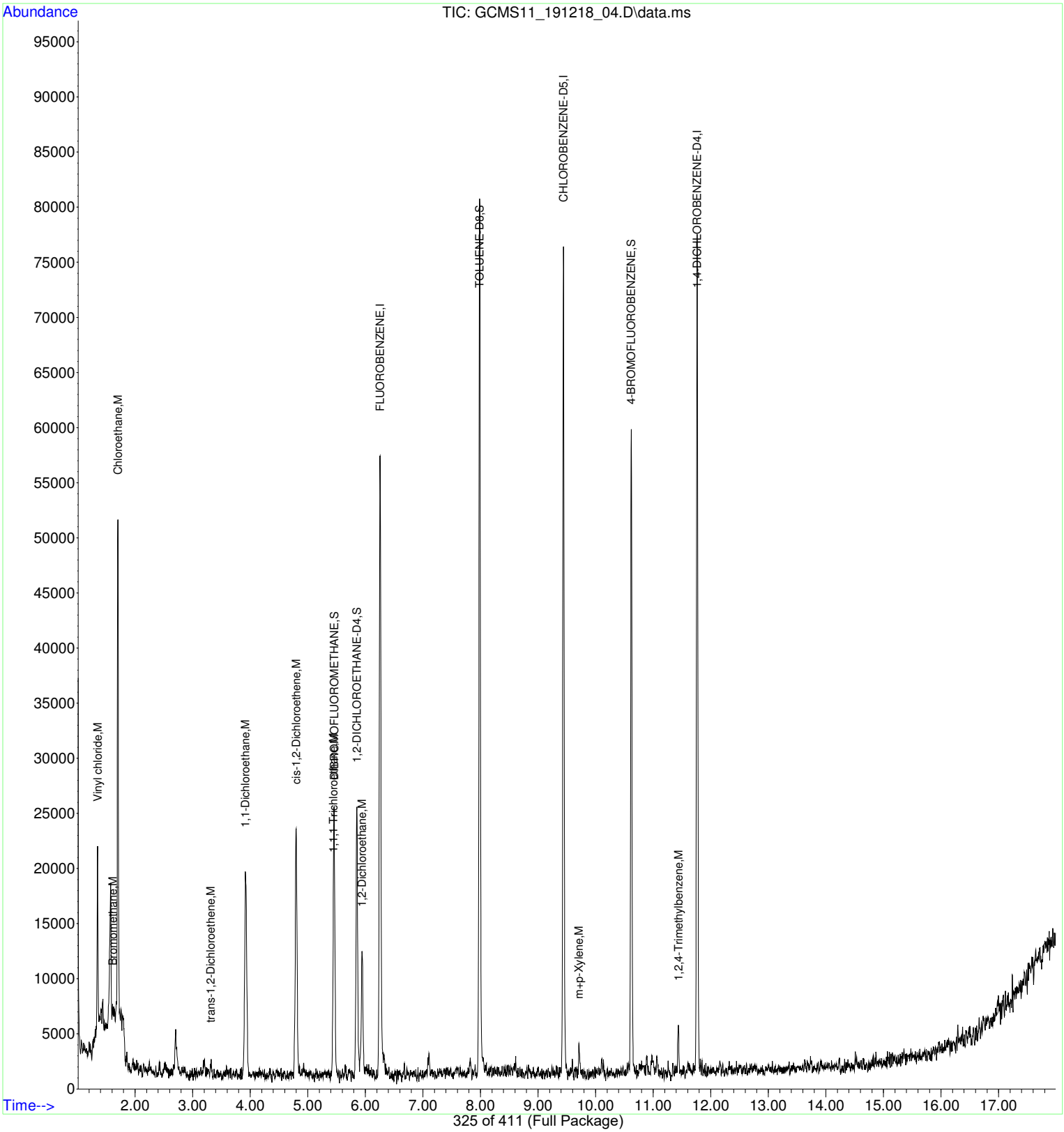
Quant Time: Dec 19 08:14:03 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

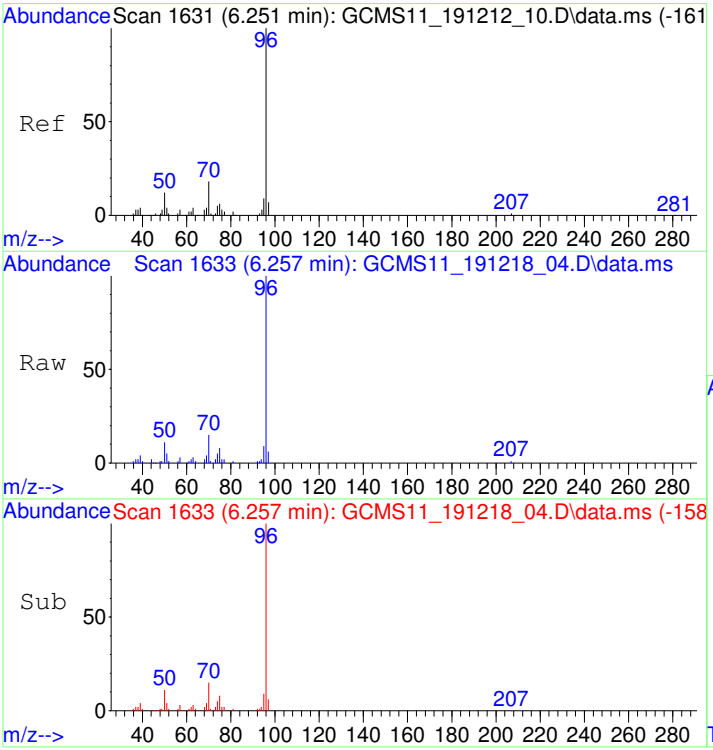
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.26	96	54373	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	20543	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	19004	50.00	ng		# 0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.46	113	14060	49.24	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	16532	48.58	ng		0.00
37) TOLUENE-D8	7.98	98	51544	48.20	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	16928	45.45	ng		0.00
Target Compounds							Qvalue
4) Vinyl chloride	1.35	62	9239	31.56	ng		96
5) Bromomethane	1.61	96	654	2.68	ng	#	71
6) Chloroethane	1.70	64	26354	123.13	ng		98
14) trans-1,2-Dichloroethene	3.32	96	371	1.17	ng	#	8
16) 1,1-Dichloroethane	3.92	63	21132	40.22	ng		98
18) cis-1,2-Dichloroethene	4.80	96	11336	33.01	ng		88
23) 1,1,1-Trichloroethane	5.44	97	1472	3.09	ng		83
28) 1,2-Dichloroethane	5.94	62	9306	21.01	ng		97
50) m+p-Xylene	9.71	106	830	1.44	ng		95
65) 1,2,4-Trimethylbenzene	11.44	105	2126	2.07	ng		93

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

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_04.D
Acq On : 18 Dec 2019 6:48 pm
Operator : ko
Sample : 1912013-02RE1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 19 08:14:03 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

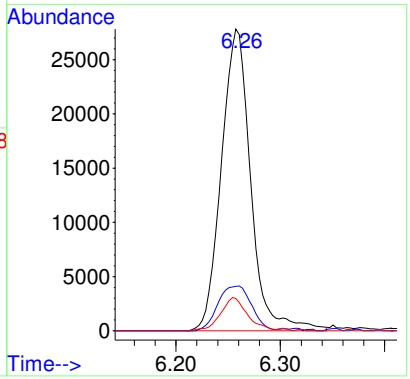


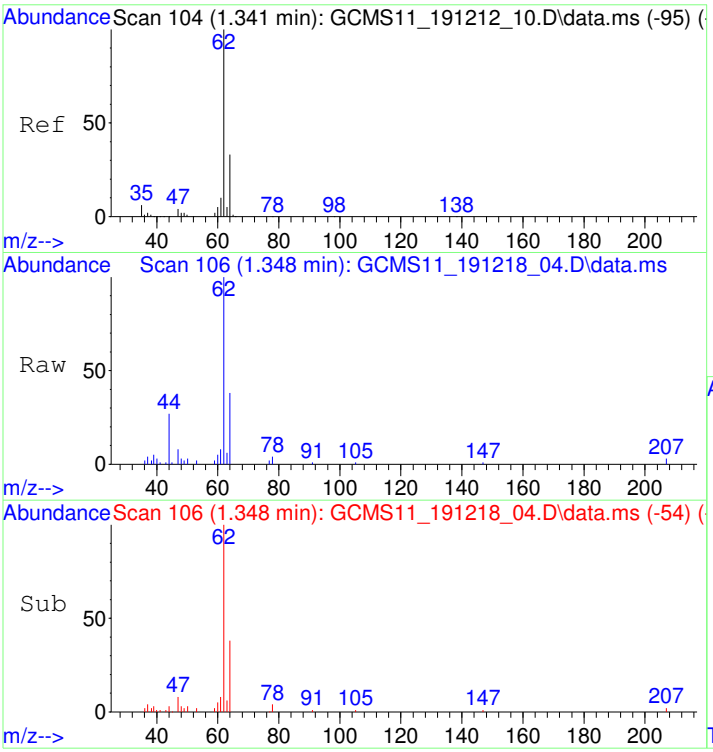


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.26 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191218_04.D
Acq: 18 Dec 2019 6:48 pm

Tgt Ion: 96 Resp: 54373

Ion	Ratio	Lower	Upper
96	100		
70	17.0	0.0	48.3
50	10.1	0.0	39.5

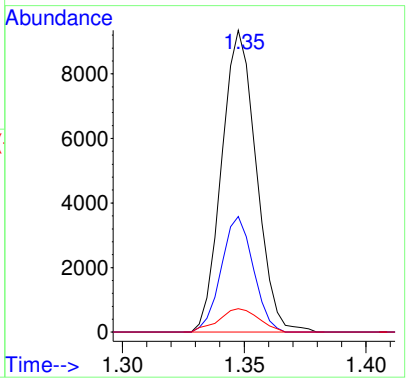


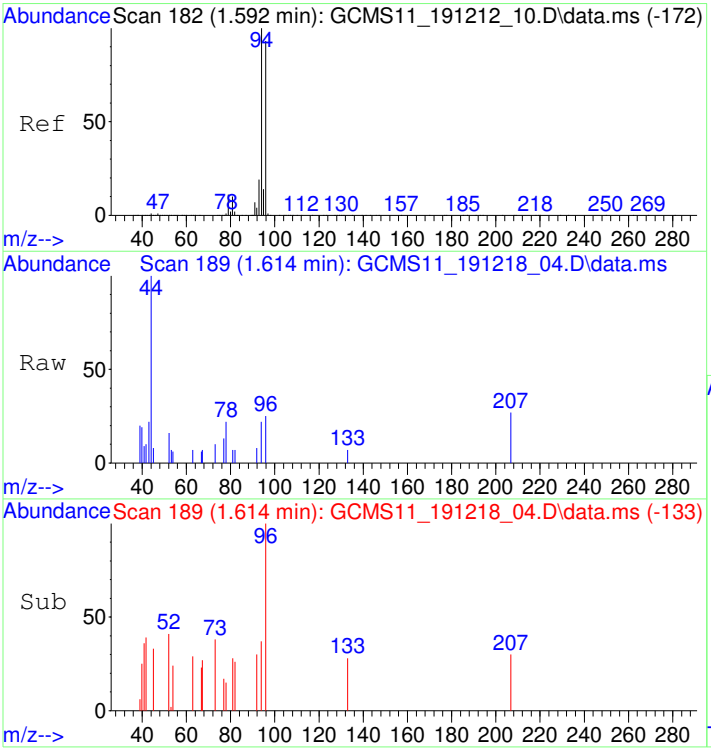


#4
Vinyl chloride
Concen: 31.56 ng
RT: 1.35 min Scan# 106
Delta R.T. -0.003 min
Lab File: GCMS11_191218_04.D
Acq: 18 Dec 2019 6:48 pm

Tgt Ion: 62 Resp: 9239

Ion	Ratio	Lower	Upper
62	100		
64	35.4	2.7	62.7
61	9.0	0.0	39.4

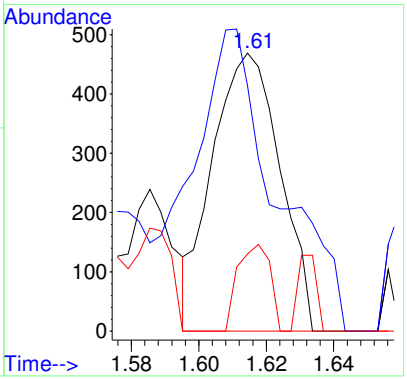


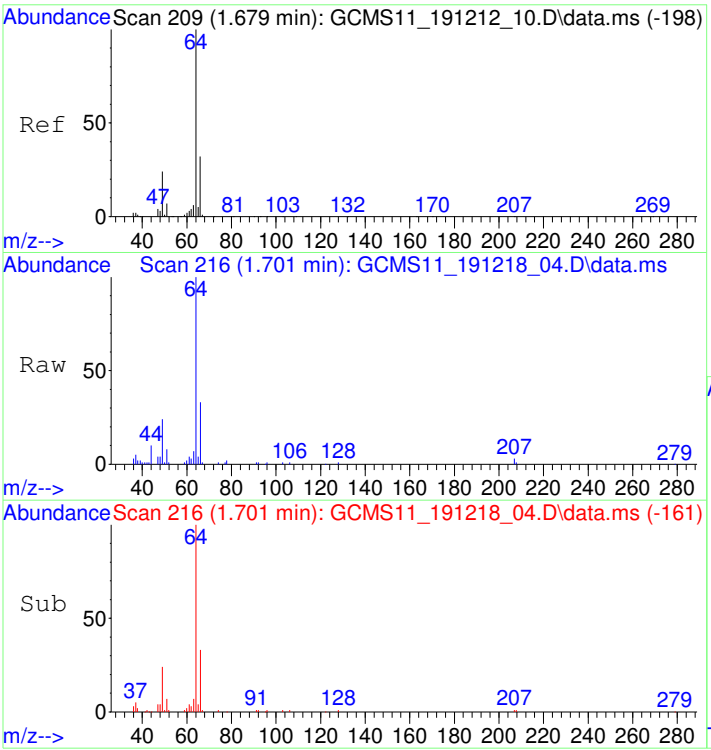


#5
Bromomethane
Concen: 2.68 ng
RT: 1.61 min Scan# 189
Delta R.T. 0.010 min
Lab File: GCMS11_191218_04.D
Acq: 18 Dec 2019 6:48 pm

Tgt Ion: 96 Resp: 654

Ion	Ratio	Lower	Upper
96	100		
94	136.9	74.8	134.8#
81	14.8	0.0	42.0

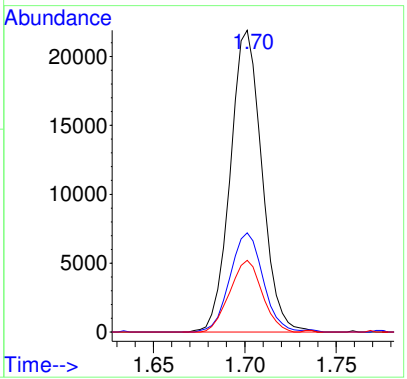


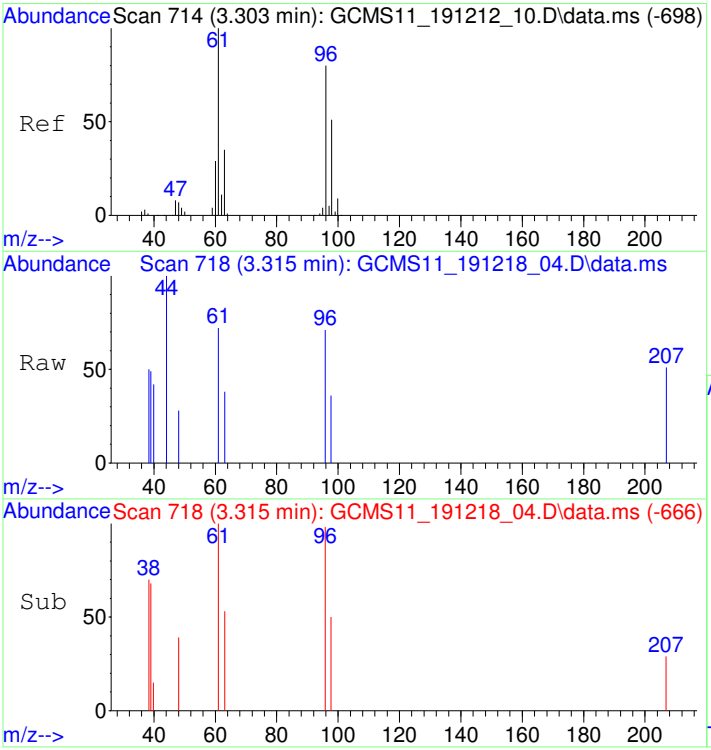


#6
Chloroethane
Concen: 123.13 ng
RT: 1.70 min Scan# 216
Delta R.T. 0.007 min
Lab File: GCMS11_191218_04.D
Acq: 18 Dec 2019 6:48 pm

Tgt Ion: 64 Resp: 26354

Ion	Ratio	Lower	Upper
64	100		
66	34.4	3.3	63.3
49	24.5	0.0	53.3

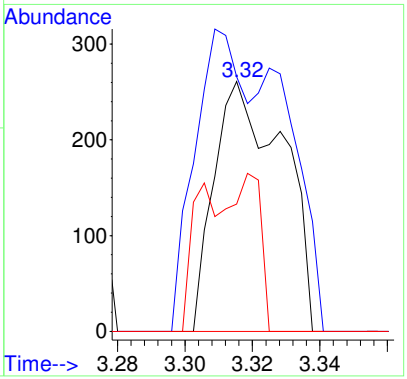


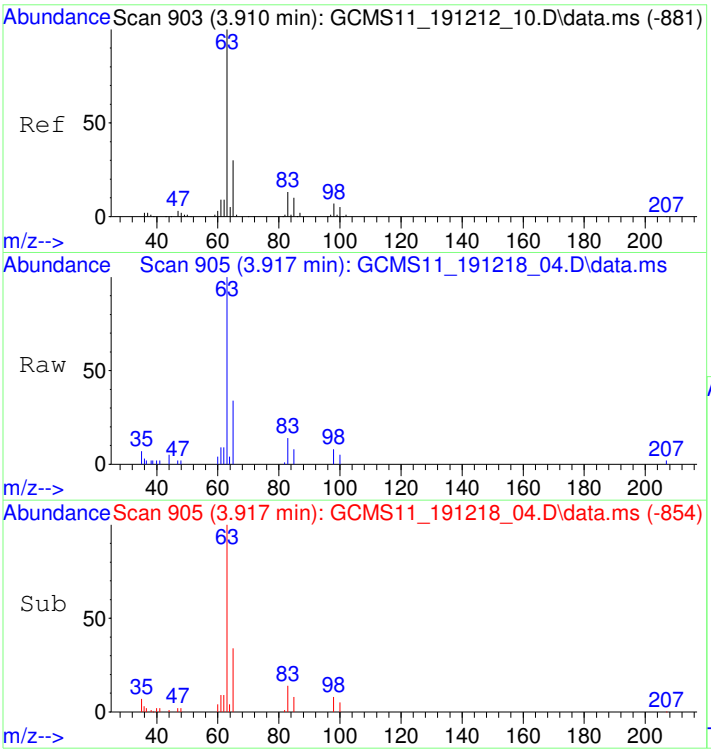


#14
trans-1,2-Dichloroethene
Concen: 1.17 ng
RT: 3.32 min Scan# 718
Delta R.T. -0.003 min
Lab File: GCMS11_191218_04.D
Acq: 18 Dec 2019 6:48 pm

Tgt Ion: 96 Resp: 371

Ion	Ratio	Lower	Upper
96	100		
61	0.0	99.6	159.6#
98	23.7	35.3	95.3#

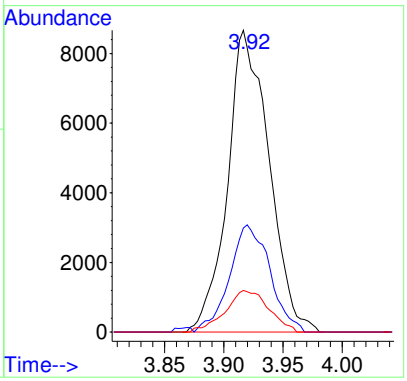


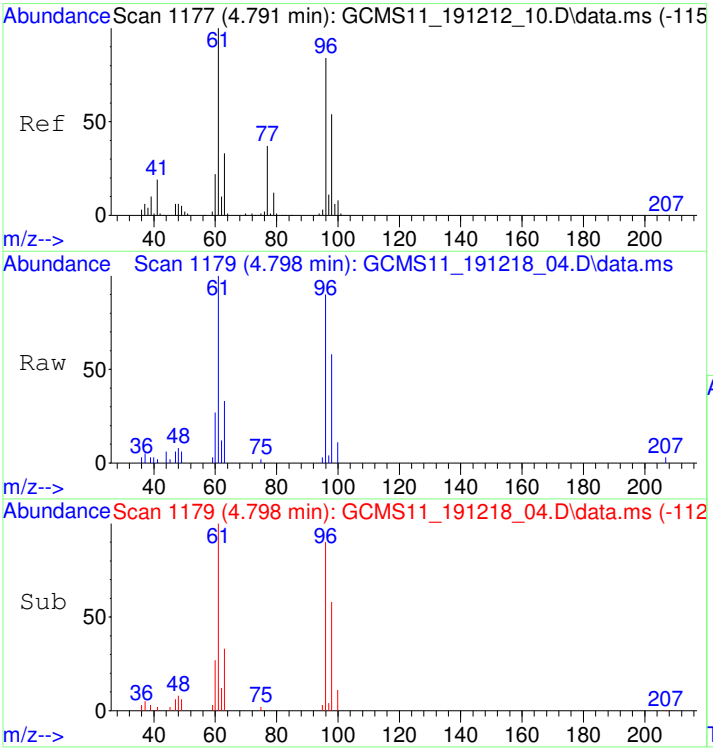


#16
1,1-Dichloroethane
Concen: 40.22 ng
RT: 3.92 min Scan# 905
Delta R.T. -0.006 min
Lab File: GCMS11_191218_04.D
Acq: 18 Dec 2019 6:48 pm

Tgt Ion: 63 Resp: 21132

Ion	Ratio	Lower	Upper
63	100		
65	34.5	2.8	62.8
83	14.5	0.0	44.3

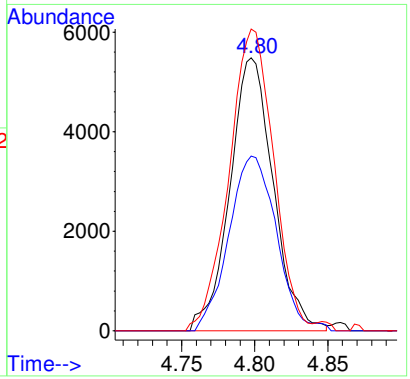


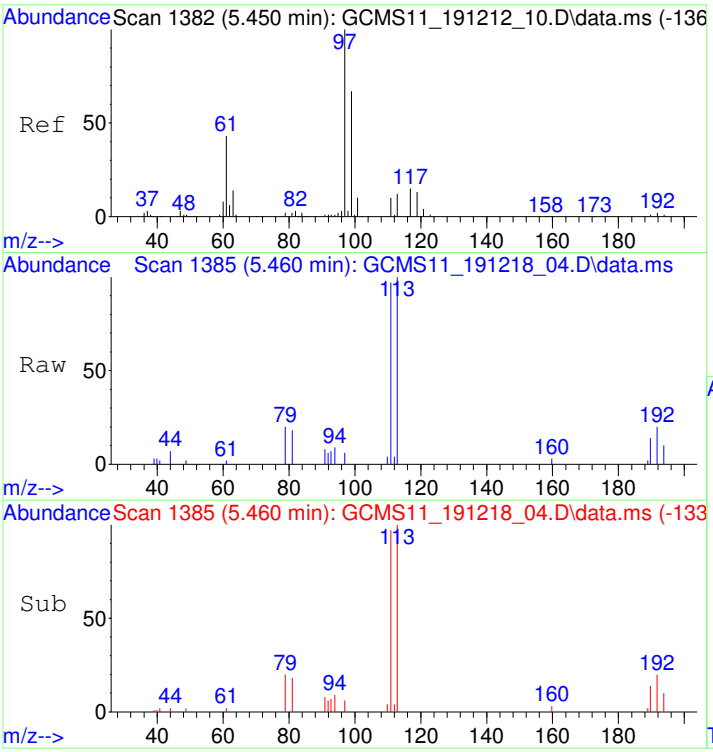


#18
cis-1,2-Dichloroethene
Concen: 33.01 ng
RT: 4.80 min Scan# 1179
Delta R.T. -0.003 min
Lab File: GCMS11_191218_04.D
Acq: 18 Dec 2019 6:48 pm

Tgt Ion: 96 Resp: 11336

Ion	Ratio	Lower	Upper
96	100		
98	70.1	30.6	90.6
61	113.4	96.6	156.6

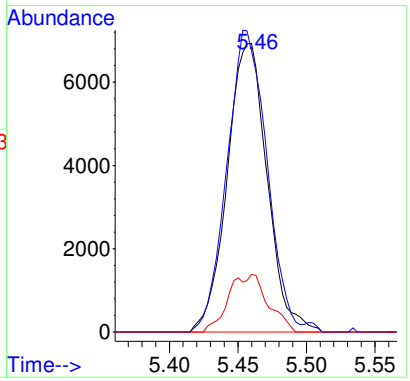


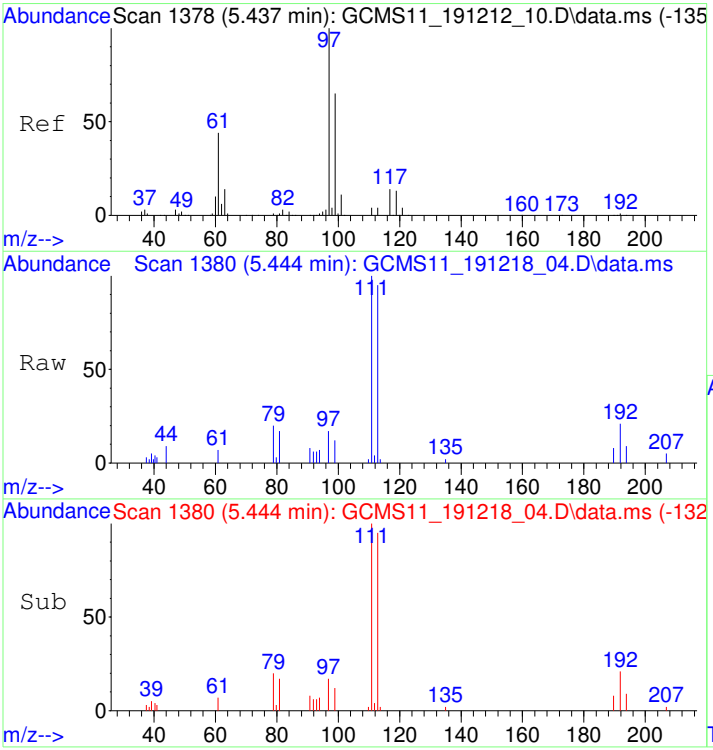


#22
DIBROMOFLUOROMETHANE
Concen: 49.24 ng
RT: 5.46 min Scan# 1385
Delta R.T. 0.000 min
Lab File: GCMS11_191218_04.D
Acq: 18 Dec 2019 6:48 pm

Tgt Ion:113 Resp: 14060

Ion	Ratio	Lower	Upper
113	100		
111	104.0	75.2	135.2
192	8.6	0.0	52.1

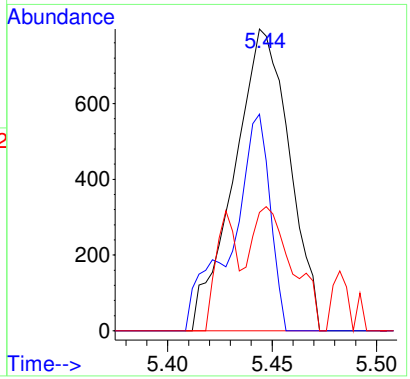


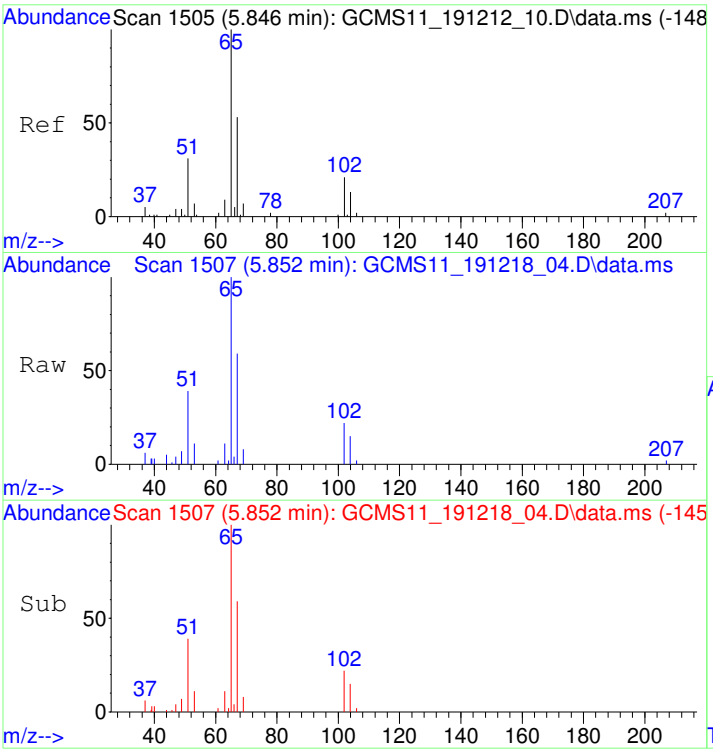


#23
1,1,1-Trichloroethane
Concen: 3.09 ng
RT: 5.44 min Scan# 1380
Delta R.T. 0.000 min
Lab File: GCMS11_191218_04.D
Acq: 18 Dec 2019 6:48 pm

Tgt Ion: 97 Resp: 1472

Ion	Ratio	Lower	Upper
97	100		
99	50.0	32.7	92.7
61	31.5	13.1	73.1

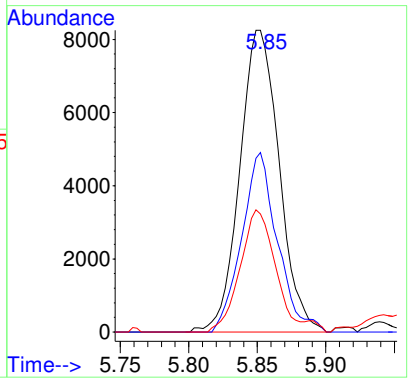


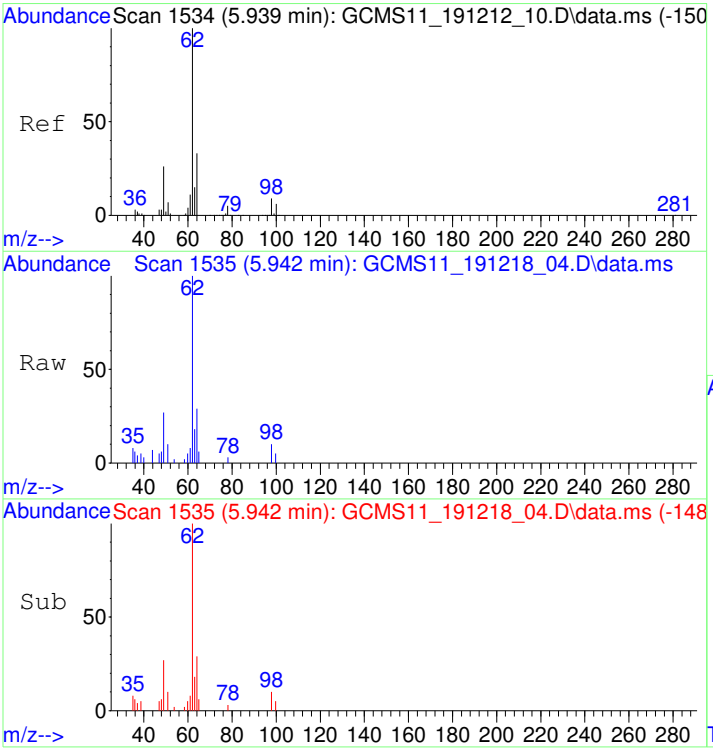


#26
1,2-DICHLOROETHANE-D4
Concen: 48.58 ng
RT: 5.85 min Scan# 1507
Delta R.T. 0.000 min
Lab File: GCMS11_191218_04.D
Acq: 18 Dec 2019 6:48 pm

Tgt Ion: 65 Resp: 16532

Ion	Ratio	Lower	Upper
65	100		
67	53.9	15.4	75.4
51	36.1	2.7	62.7

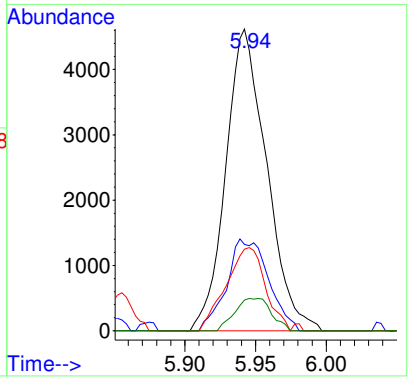


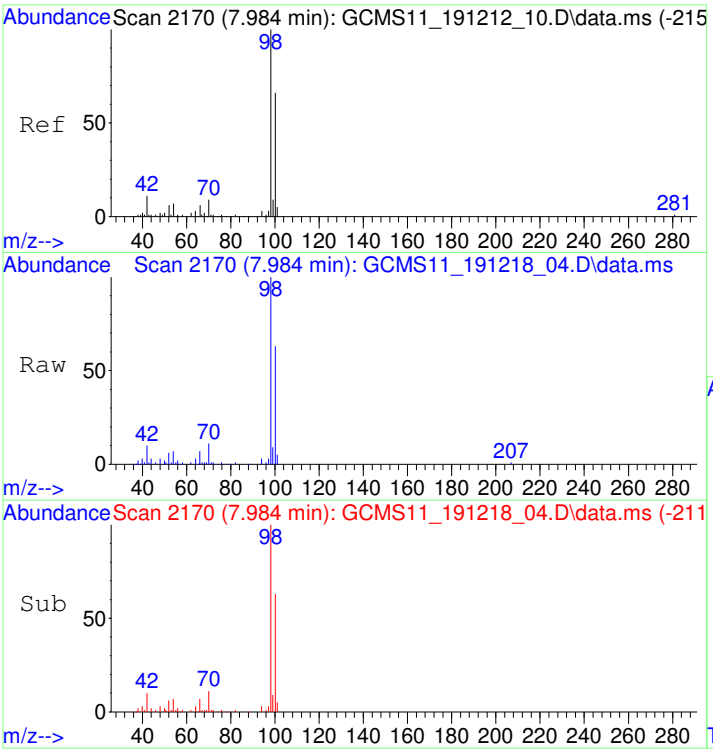


#28
1,2-Dichloroethane
Concen: 21.01 ng
RT: 5.94 min Scan# 1535
Delta R.T. 0.000 min
Lab File: GCMS11_191218_04.D
Acq: 18 Dec 2019 6:48 pm

Tgt Ion: 62 Resp: 9306

Ion	Ratio	Lower	Upper
62	100		
64	31.0	3.2	63.2
49	26.4	0.0	55.4
98	9.5	0.0	39.6

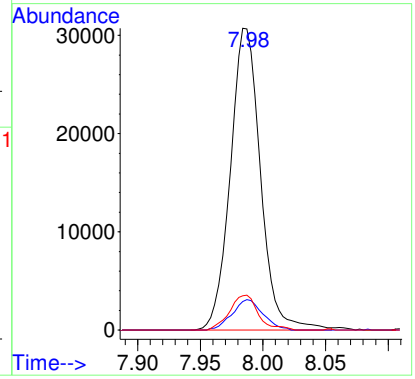


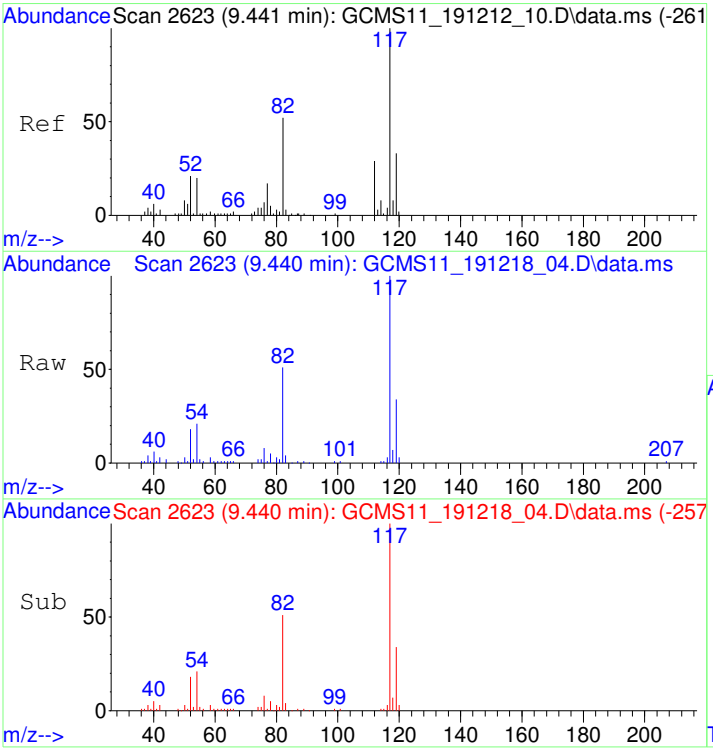


#37
TOLUENE-D8
Concen: 48.20 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191218_04.D
Acq: 18 Dec 2019 6:48 pm

Tgt Ion: 98 Resp: 51544

Ion	Ratio	Lower	Upper
98	100		
99	10.2	0.0	39.8
70	11.0	0.0	40.7

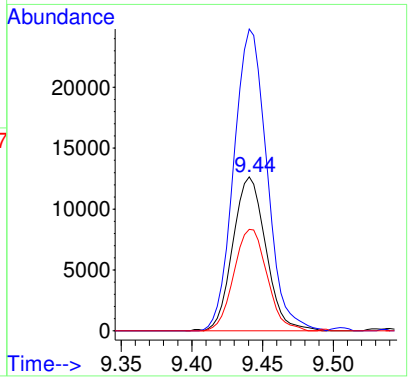


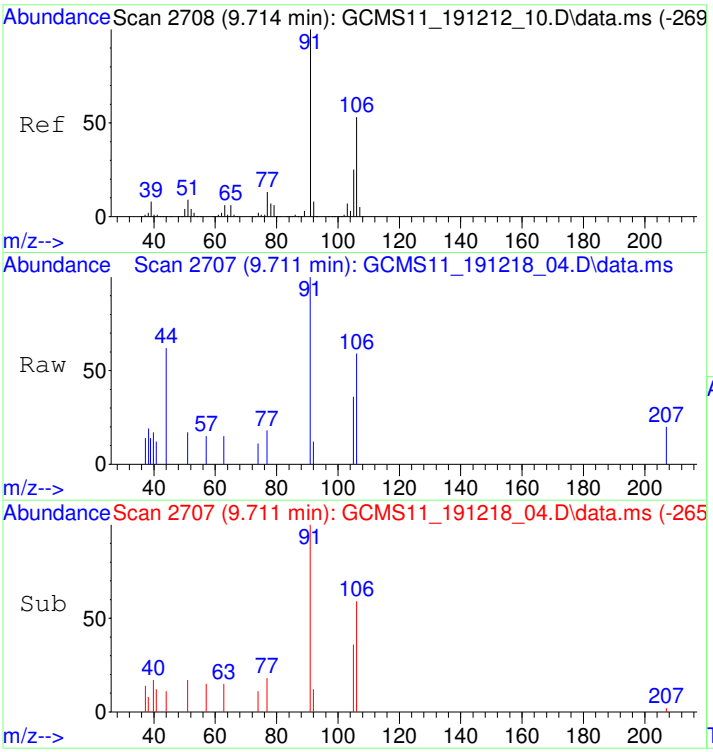


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191218_04.D
Acq: 18 Dec 2019 6:48 pm

Tgt Ion: 82 Resp: 20543

Ion	Ratio	Lower	Upper
82	100		
117	196.4	160.7	220.7
119	66.4	33.5	93.5

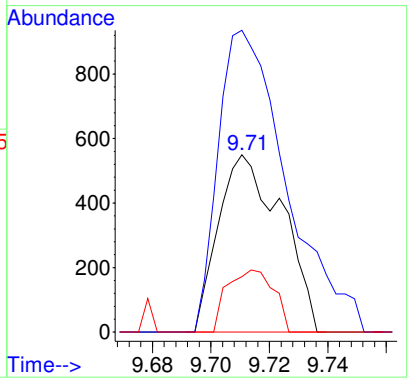


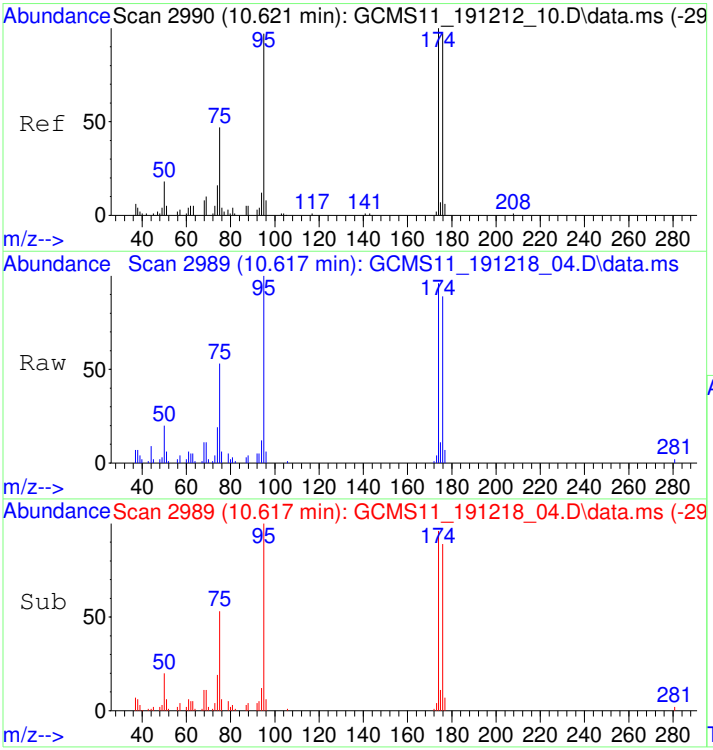


#50
m+p-Xylene
Concen: 1.44 ng
RT: 9.71 min Scan# 2707
Delta R.T. -0.003 min
Lab File: GCMS11_191218_04.D
Acq: 18 Dec 2019 6:48 pm

Tgt Ion:106 Resp: 830

Ion	Ratio	Lower	Upper
106	100		
91	183.4	160.8	220.8
77	25.7	0.0	54.6

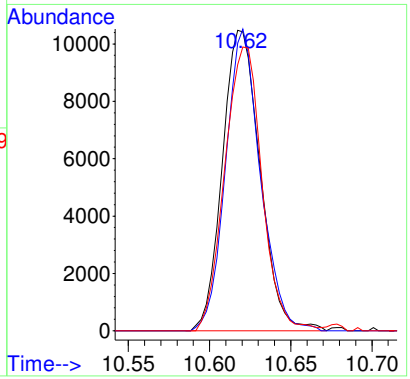


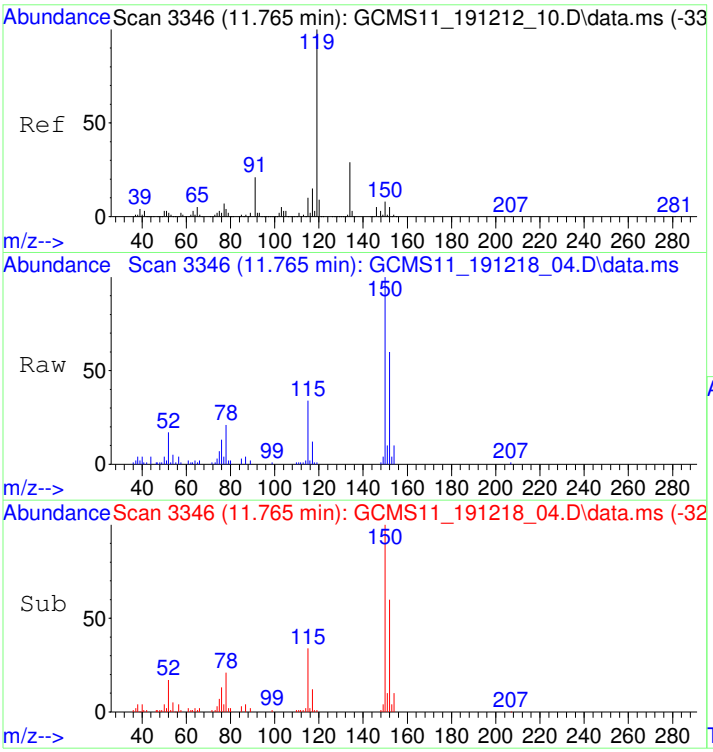


#55
4-BROMOFLUOROBENZENE
Concen: 45.45 ng
RT: 10.62 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191218_04.D
Acq: 18 Dec 2019 6:48 pm

Tgt Ion: 95 Resp: 16928

Ion	Ratio	Lower	Upper
95	100		
174	92.9	68.5	128.5
176	93.4	66.8	126.8

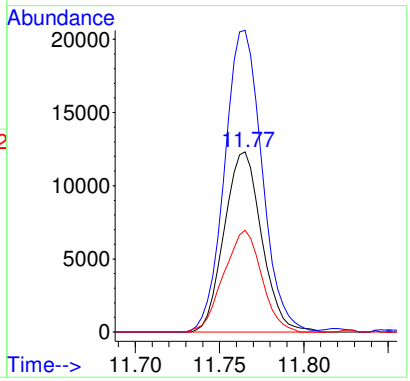


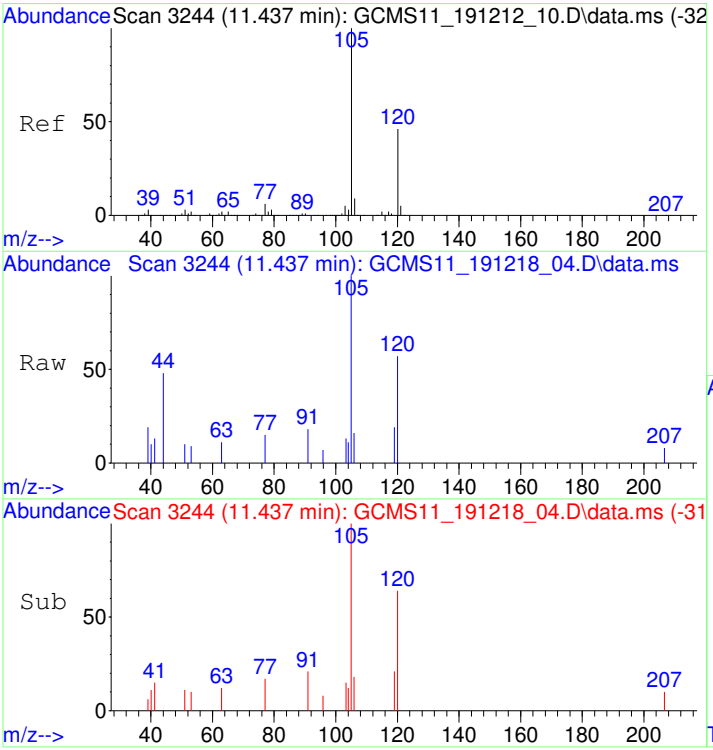


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191218_04.D
Acq: 18 Dec 2019 6:48 pm

Tgt Ion:152 Resp: 19004

Ion	Ratio	Lower	Upper
152	100		
150	167.7	162.5	222.5
115	57.1	82.3	142.3#

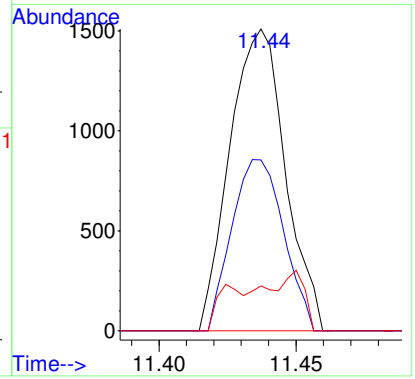




#65
1,2,4-Trimethylbenzene
Concen: 2.07 ng
RT: 11.44 min Scan# 3244
Delta R.T. 0.000 min
Lab File: GCMS11_191218_04.D
Acq: 18 Dec 2019 6:48 pm

Tgt Ion:105 Resp: 2126

Ion	Ratio	Lower	Upper
105	100		
120	52.9	18.6	78.6
77	7.1	0.0	41.4



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_32.D
Acq On : 17 Dec 2019 4:22 am
Operator : ko
Sample : 1912013-03
Misc : LIMS 19L1101, 50X ATOMX DILUTION
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 17 14:57:31 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

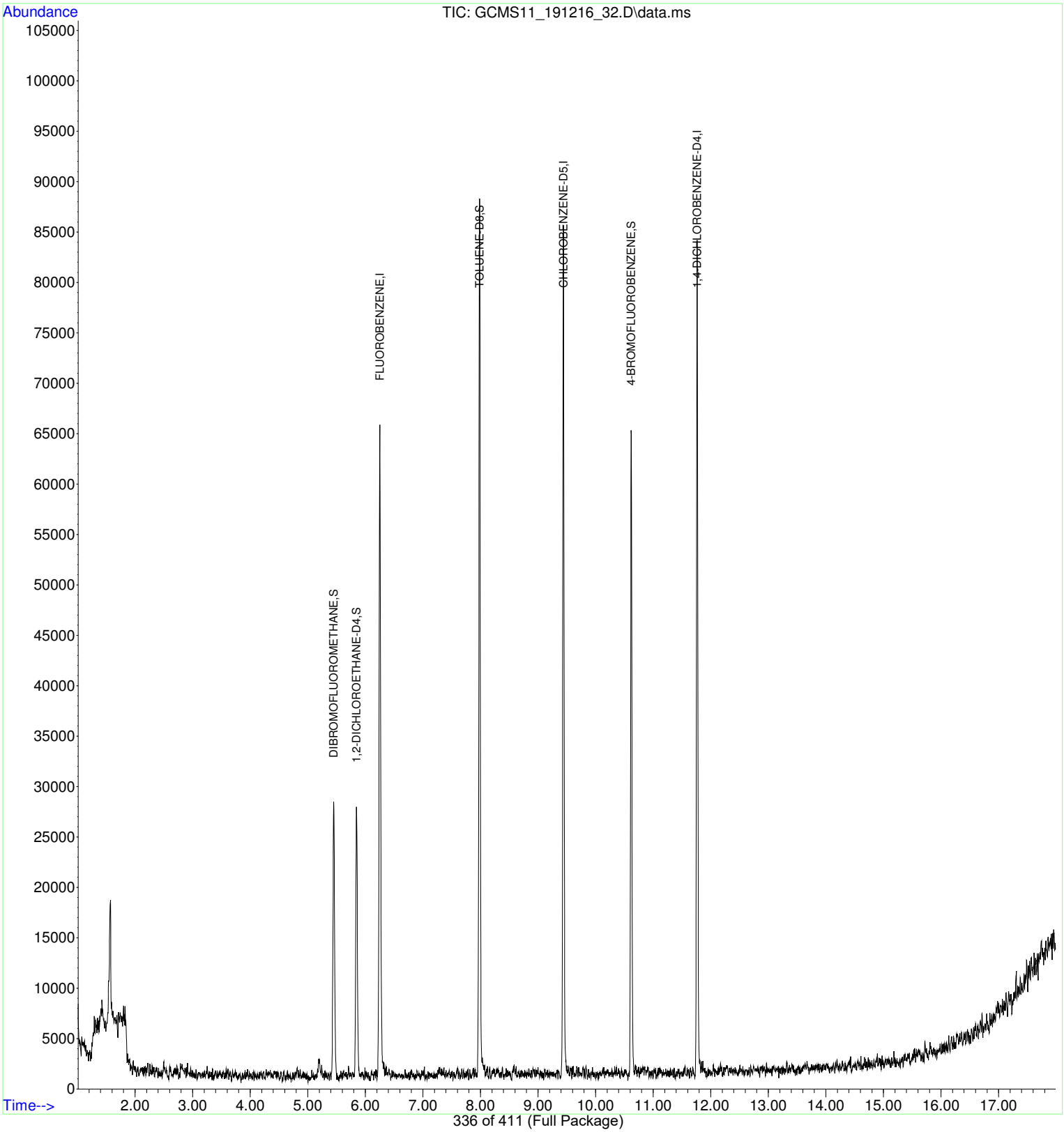
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) FLUOROBENZENE	6.25	96	58212	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	22001	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	21300	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.45	113	15988	52.29 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	19103	52.43 ng	0.00
37) TOLUENE-D8	7.98	98	55357	48.35 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	19239	48.23 ng	0.00

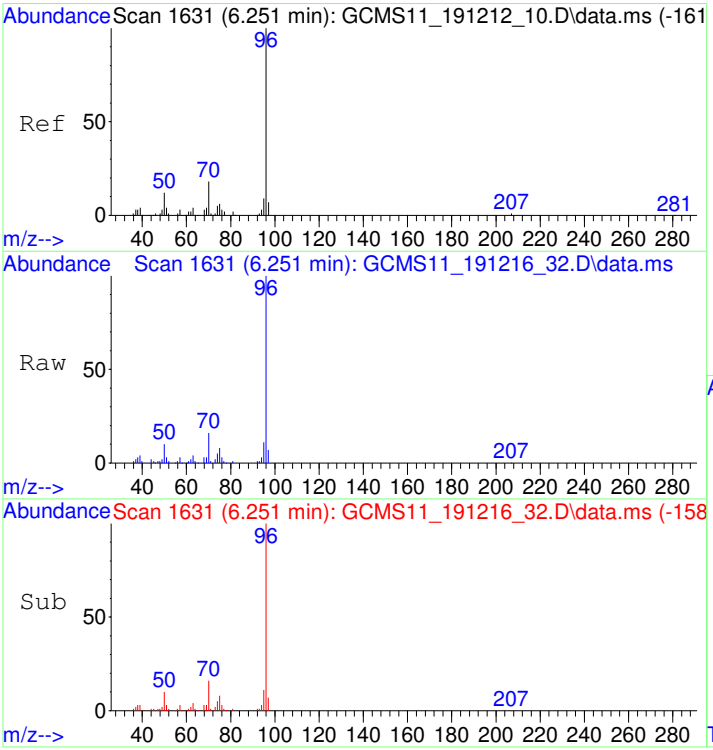
Target Compounds	Qvalue

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

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_32.D
Acq On : 17 Dec 2019 4:22 am
Operator : ko
Sample : 1912013-03
Misc : LIMS 19L1101, 50X ATOMX DILUTION
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 17 14:57:31 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

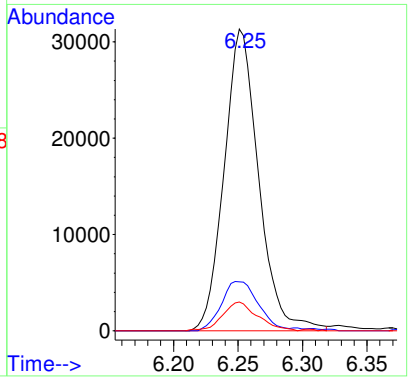


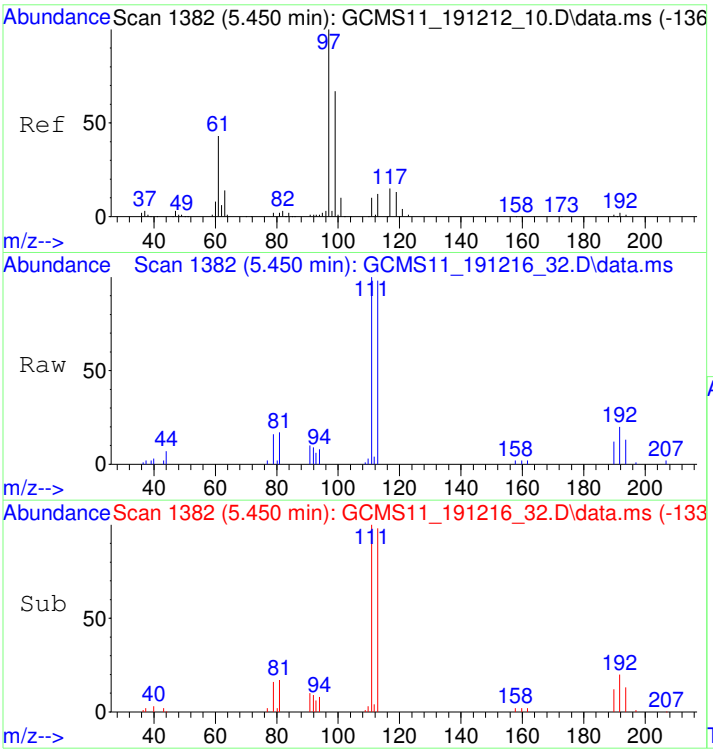


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1631
Delta R.T. -0.006 min
Lab File: GCMS11_191216_32.D
Acq: 17 Dec 2019 4:22 am

Tgt Ion: 96 Resp: 58212

Ion	Ratio	Lower	Upper
96	100		
70	17.4	0.0	48.3
50	9.7	0.0	39.5

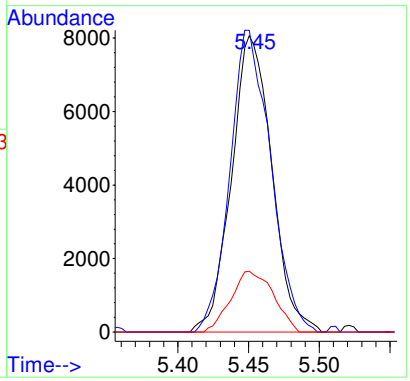


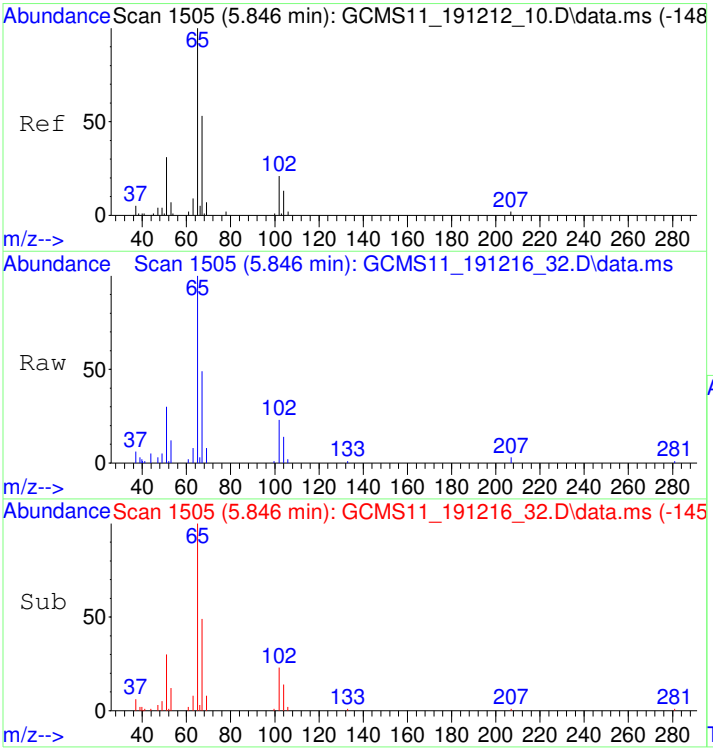


#22
DIBROMOFLUOROMETHANE
Concen: 52.29 ng
RT: 5.45 min Scan# 1382
Delta R.T. -0.009 min
Lab File: GCMS11_191216_32.D
Acq: 17 Dec 2019 4:22 am

Tgt Ion:113 Resp: 15988

Ion	Ratio	Lower	Upper
113	100		
111	102.5	75.2	135.2
192	21.7	0.0	52.1

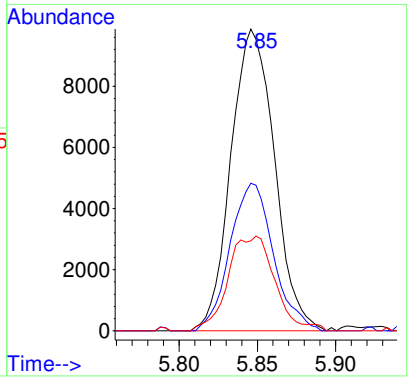


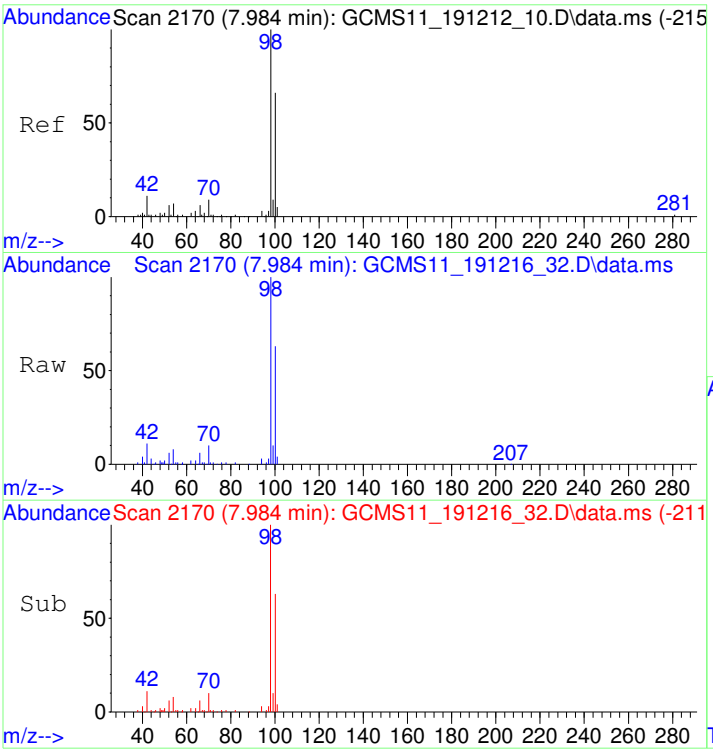


#26
1,2-DICHLOROETHANE-D4
Concen: 52.43 ng
RT: 5.85 min Scan# 1505
Delta R.T. -0.006 min
Lab File: GCMS11_191216_32.D
Acq: 17 Dec 2019 4:22 am

Tgt Ion: 65 Resp: 19103

Ion	Ratio	Lower	Upper
65	100		
67	48.7	15.4	75.4
51	33.7	2.7	62.7

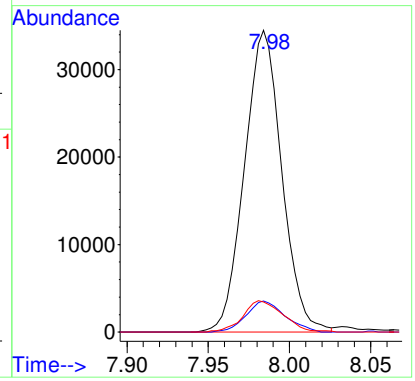


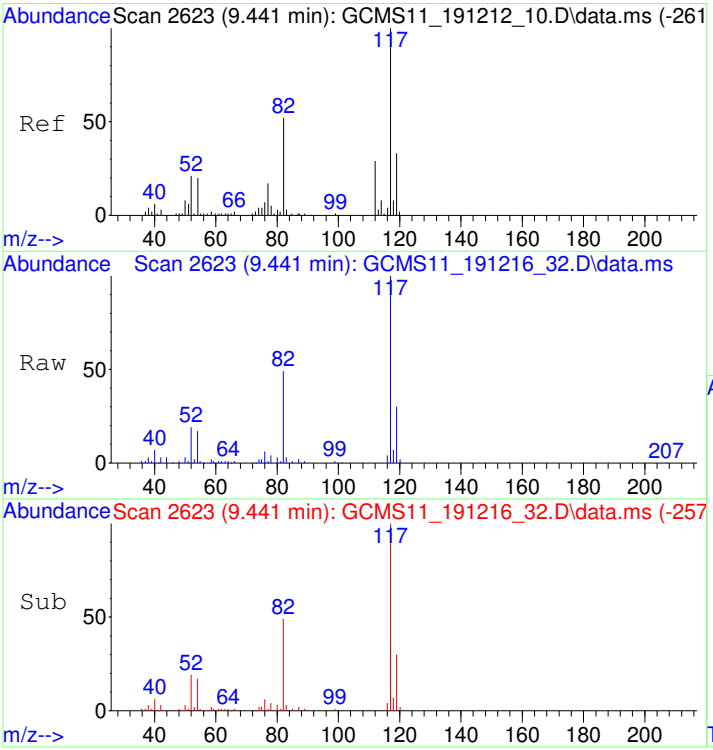


#37
TOLUENE-D8
Concen: 48.35 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191216_32.D
Acq: 17 Dec 2019 4:22 am

Tgt Ion: 98 Resp: 55357

Ion	Ratio	Lower	Upper
98	100		
99	10.7	0.0	39.8
70	11.2	0.0	40.7

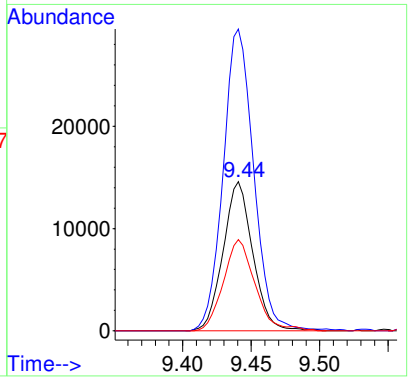


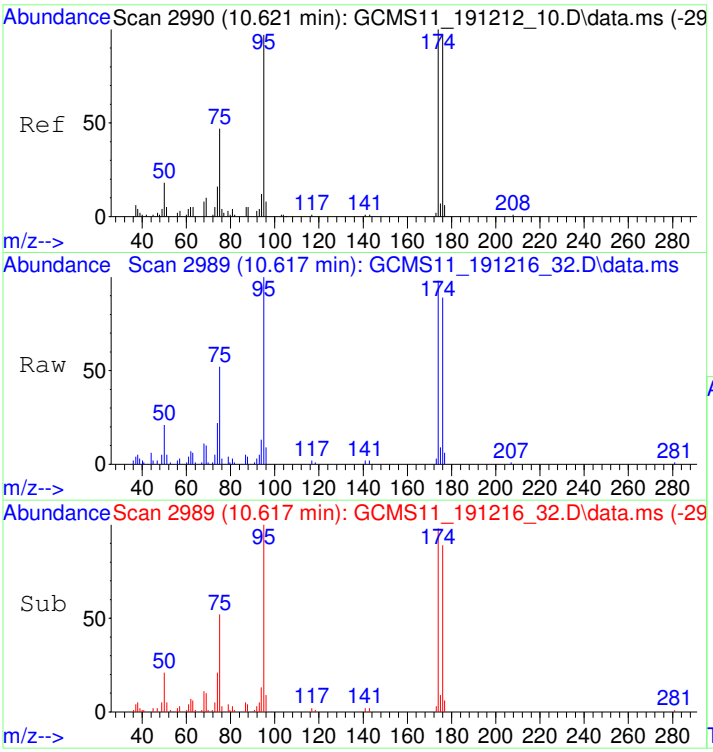


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.001 min
Lab File: GCMS11_191216_32.D
Acq: 17 Dec 2019 4:22 am

Tgt Ion: 82 Resp: 22001

Ion	Ratio	Lower	Upper
82	100		
117	207.3	160.7	220.7
119	65.1	33.5	93.5

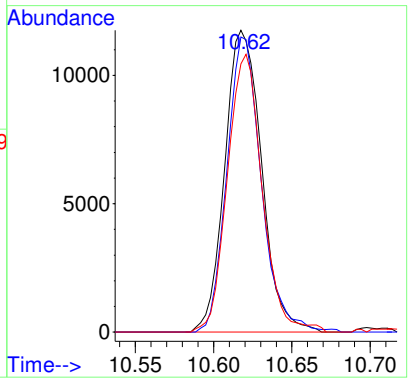


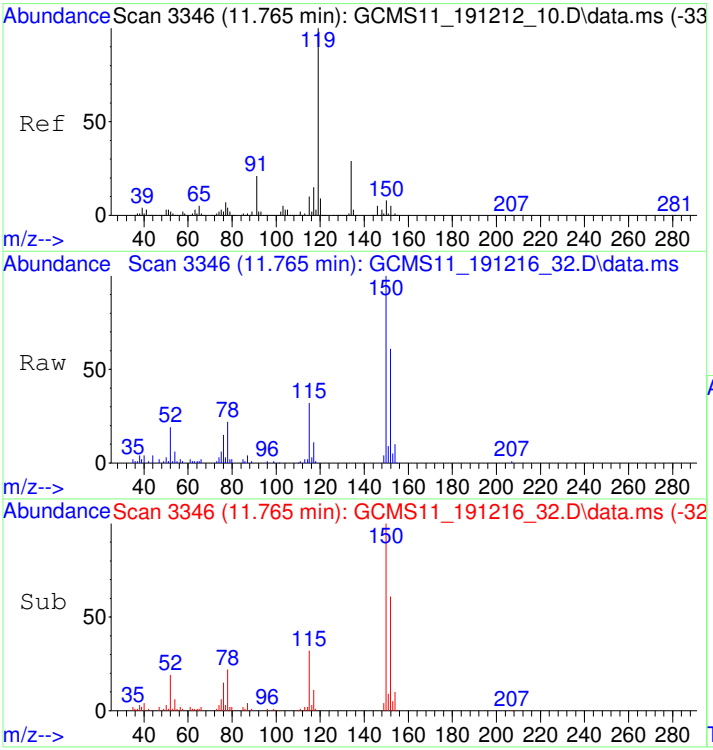


#55
4-BROMOFLUOROBENZENE
Concen: 48.23 ng
RT: 10.62 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191216_32.D
Acq: 17 Dec 2019 4:22 am

Tgt Ion: 95 Resp: 19239

Ion	Ratio	Lower	Upper
95	100		
174	91.0	68.5	128.5
176	87.0	66.8	126.8

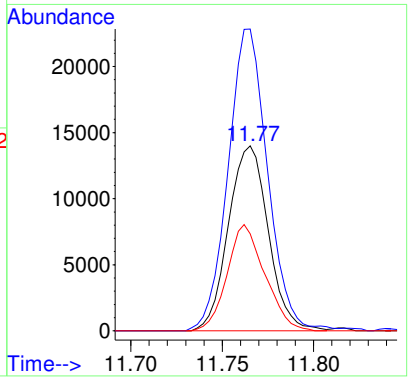




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191216_32.D
Acq: 17 Dec 2019 4:22 am

Tgt Ion:152 Resp: 21300

Ion	Ratio	Lower	Upper
152	100		
150	162.1	162.5	222.5#
115	54.3	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_05.D
Acq On : 18 Dec 2019 7:17 pm
Operator : ko
Sample : 1912013-03RE1
Misc : LIMS 19L1101
ALS Vial : 4 Sample Multiplier: 1

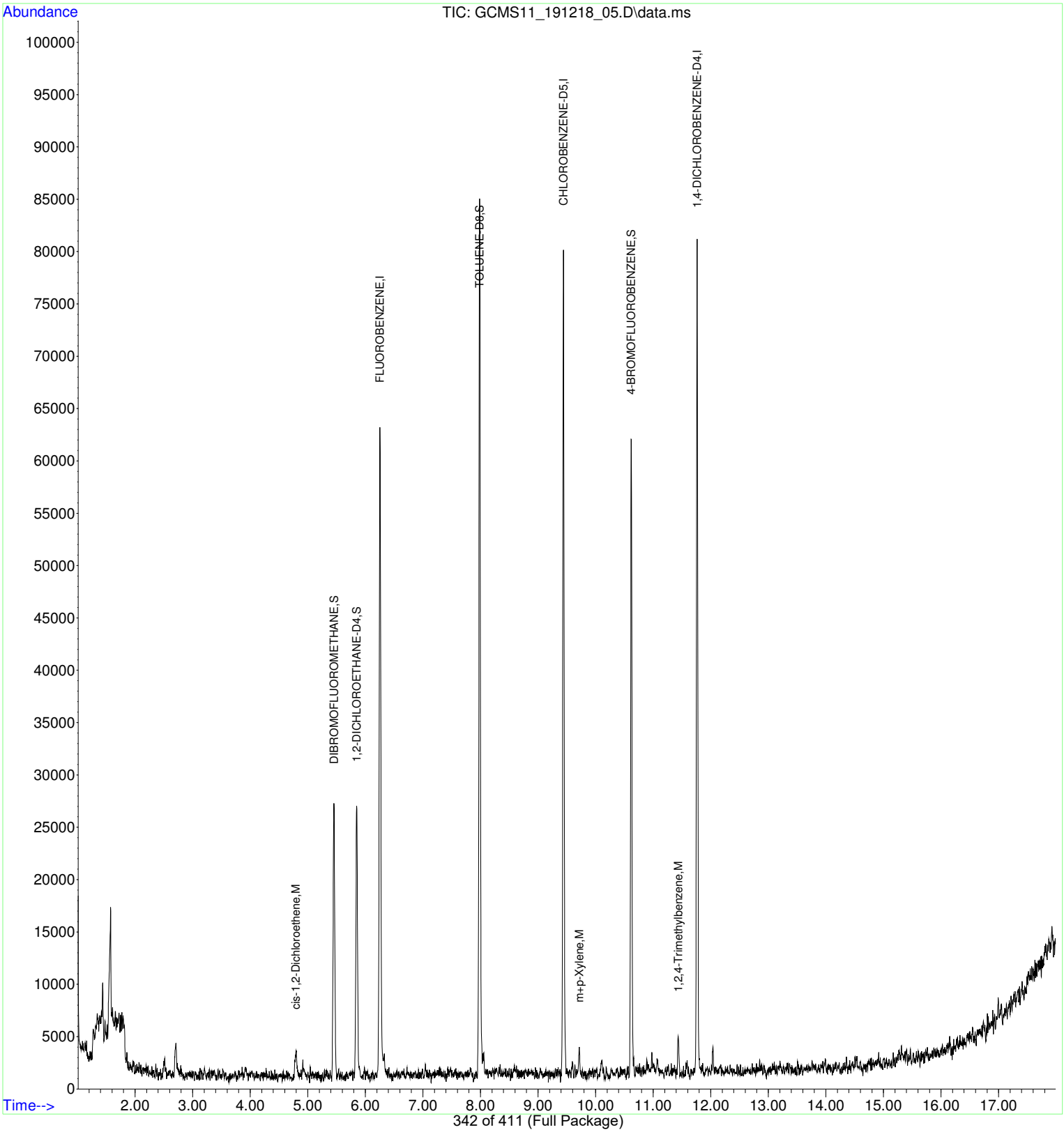
Quant Time: Dec 19 08:17:24 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

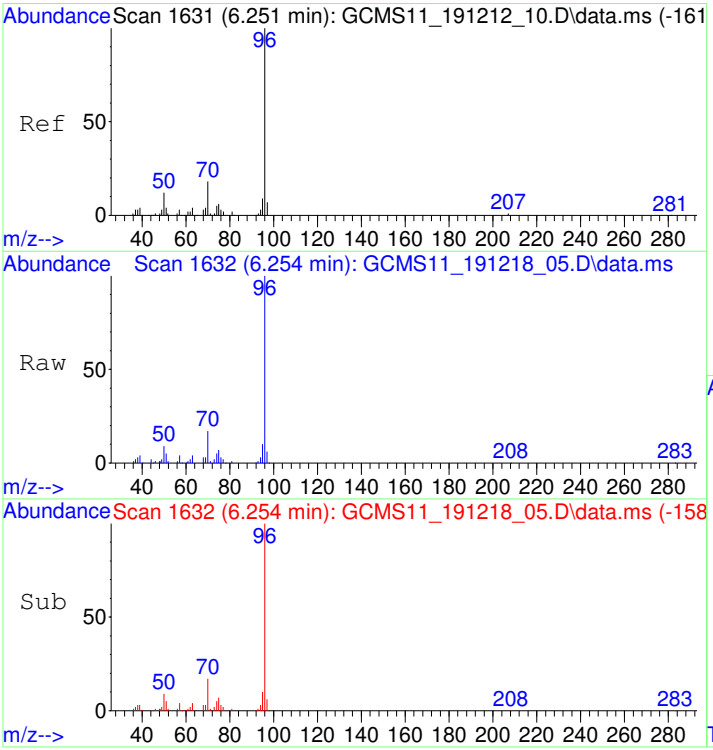
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.25	96	58368	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	21100	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	20893	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.46	113	14982	48.87	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	17397	47.62	ng	0.00
37) TOLUENE-D8	7.98	98	54777	47.72	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	17335	45.31	ng	0.00
Target Compounds						Qvalue
18) cis-1,2-Dichloroethene	4.79	96	1439m	3.90	ng	
50) m+p-Xylene	9.72	106	1004	1.70	ng	# 74
65) 1,2,4-Trimethylbenzene	11.43	105	2263	2.01	ng	87

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

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_05.D
Acq On : 18 Dec 2019 7:17 pm
Operator : ko
Sample : 1912013-03RE1
Misc : LIMS 19L1101
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 19 08:17:24 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

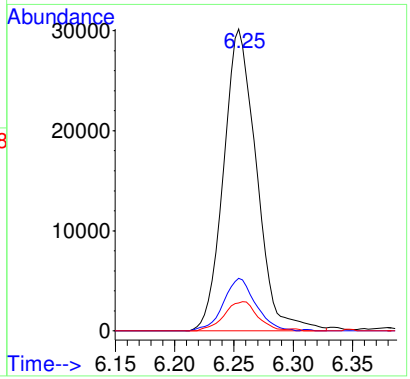


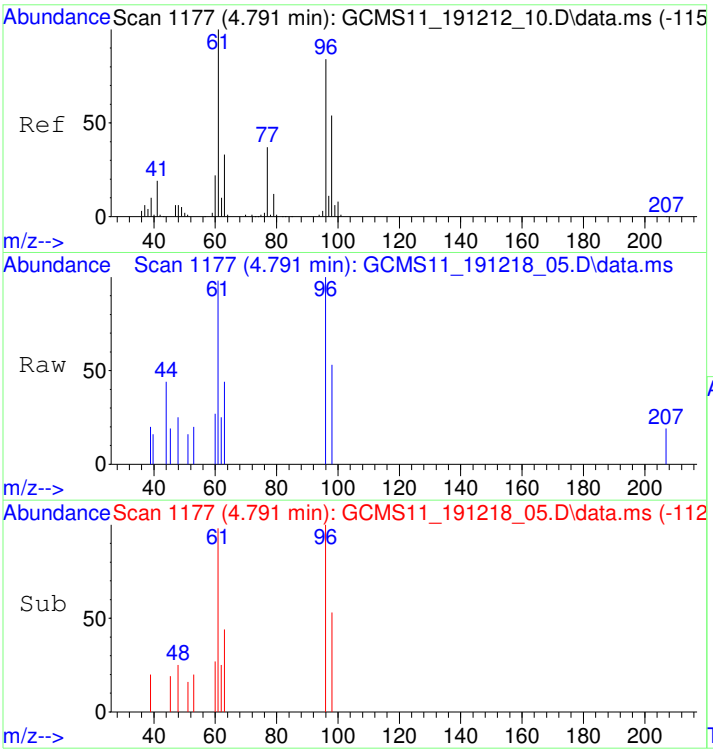


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191218_05.D
Acq: 18 Dec 2019 7:17 pm

Tgt Ion: 96 Resp: 58368

Ion	Ratio	Lower	Upper
96	100		
70	17.0	0.0	48.3
50	9.8	0.0	39.5

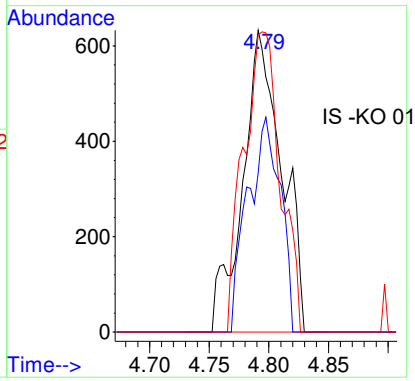


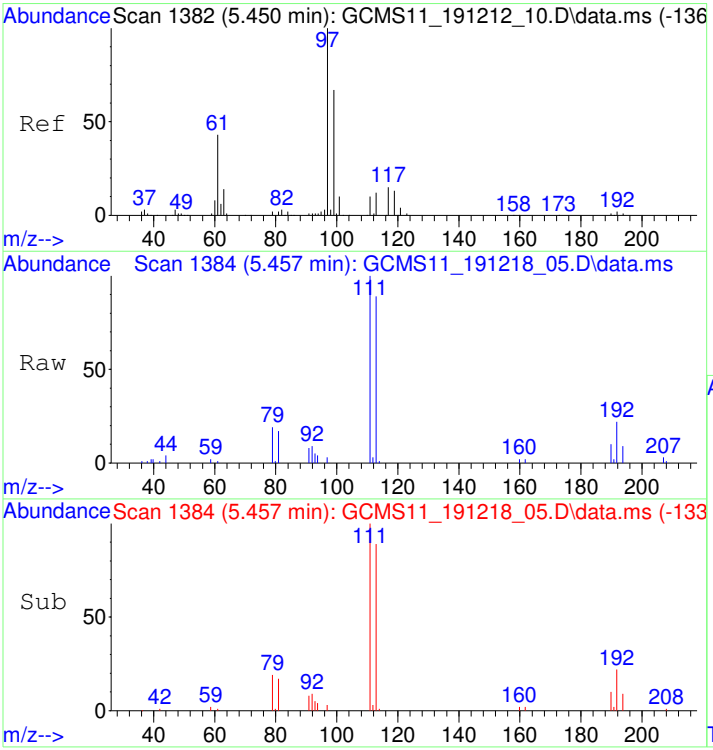


#18
cis-1,2-Dichloroethene
Concen: 3.90 ng m
RT: 4.79 min Scan# 1177
Delta R.T. -0.010 min
Lab File: GCMS11_191218_05.D
Acq: 18 Dec 2019 7:17 pm

Tgt Ion: 96 Resp: 1439

Ion	Ratio	Lower	Upper
96	100		
98	59.3	30.6	90.6
61	93.3	96.6	156.6#

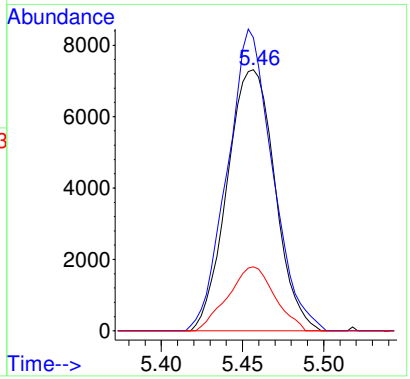


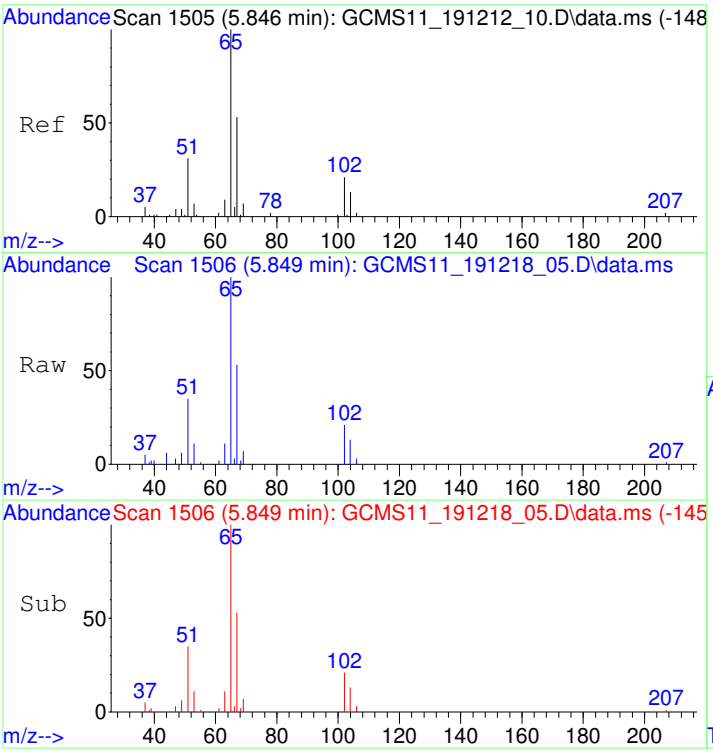


#22
DIBROMOFLUOROMETHANE
Concen: 48.87 ng
RT: 5.46 min Scan# 1384
Delta R.T. -0.003 min
Lab File: GCMS11_191218_05.D
Acq: 18 Dec 2019 7:17 pm

Tgt Ion:113 Resp: 14982

Ion	Ratio	Lower	Upper
113	100		
111	109.5	75.2	135.2
192	23.9	0.0	52.1

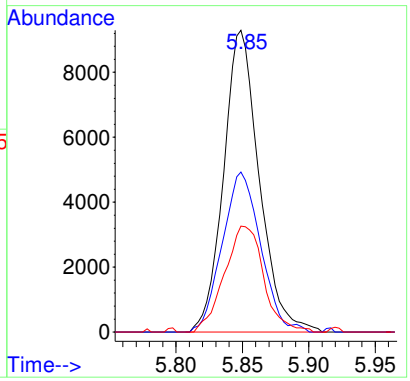


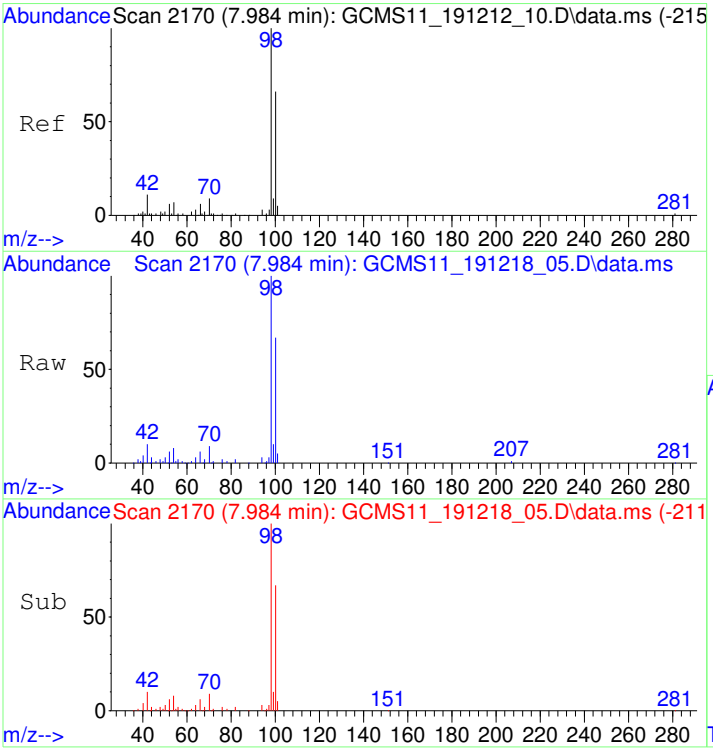


#26
1,2-DICHLOROETHANE-D4
Concen: 47.62 ng
RT: 5.85 min Scan# 1506
Delta R.T. -0.003 min
Lab File: GCMS11_191218_05.D
Acq: 18 Dec 2019 7:17 pm

Tgt Ion: 65 Resp: 17397

Ion	Ratio	Lower	Upper
65	100		
67	57.0	15.4	75.4
51	38.6	2.7	62.7

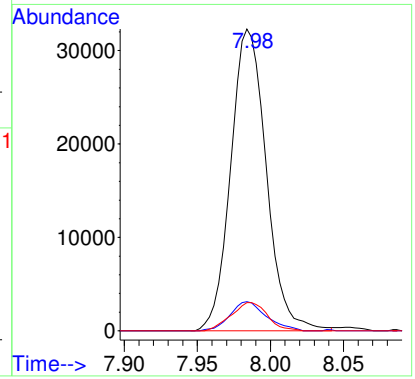


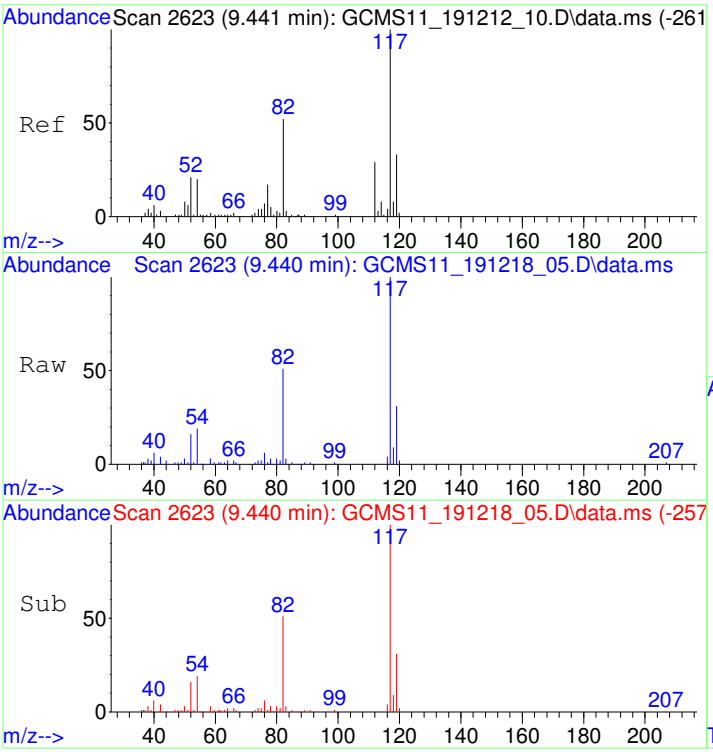


#37
TOLUENE-D8
Concen: 47.72 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191218_05.D
Acq: 18 Dec 2019 7:17 pm

Tgt Ion: 98 Resp: 54777

Ion	Ratio	Lower	Upper
98	100		
99	9.9	0.0	39.8
70	9.6	0.0	40.7

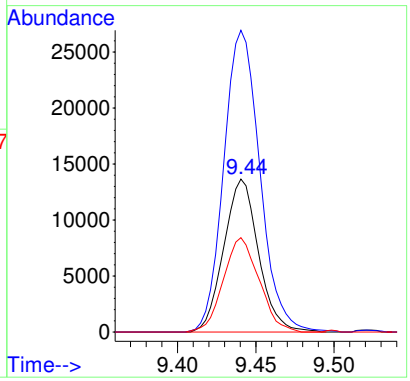


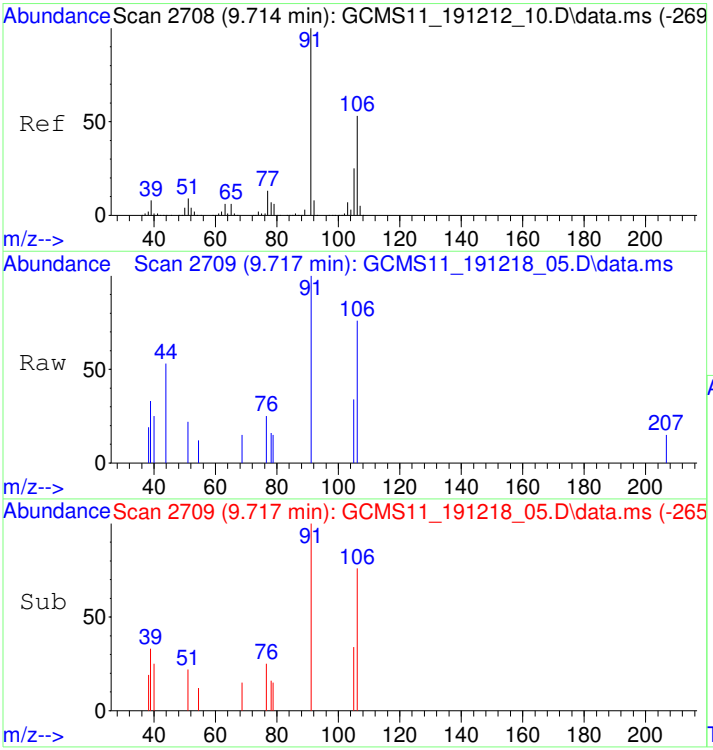


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191218_05.D
Acq: 18 Dec 2019 7:17 pm

Tgt Ion: 82 Resp: 21100

Ion	Ratio	Lower	Upper
82	100		
117	205.1	160.7	220.7
119	63.4	33.5	93.5

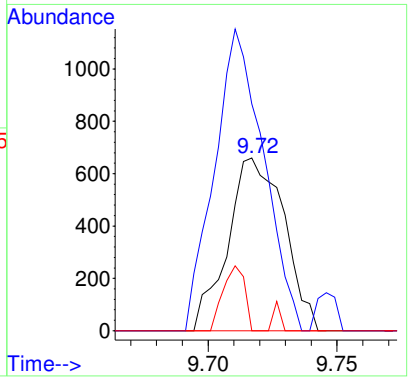


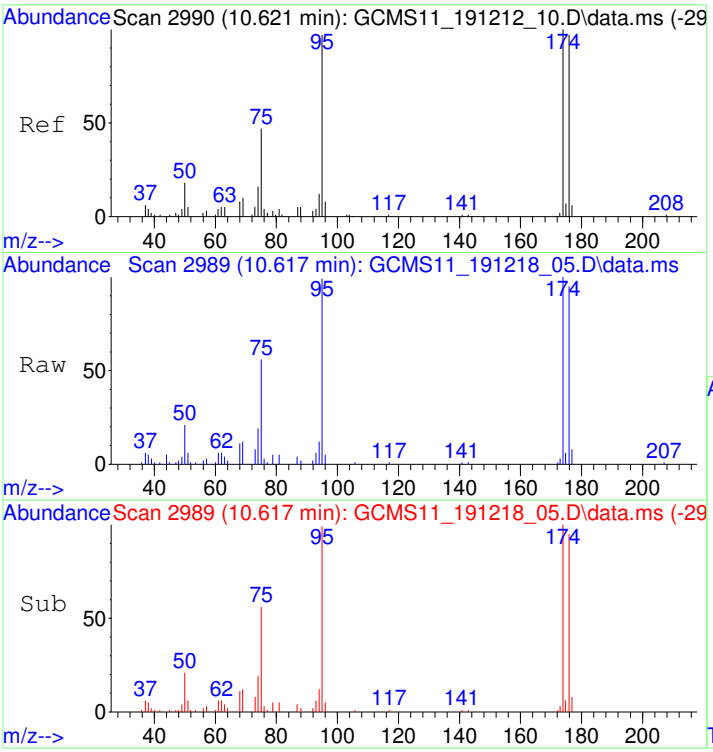


#50
m+p-Xylene
Concen: 1.70 ng
RT: 9.72 min Scan# 2709
Delta R.T. 0.003 min
Lab File: GCMS11_191218_05.D
Acq: 18 Dec 2019 7:17 pm

Tgt Ion:106 Resp: 1004

Ion	Ratio	Lower	Upper
106	100		
91	152.0	160.8	220.8#
77	14.4	0.0	54.6

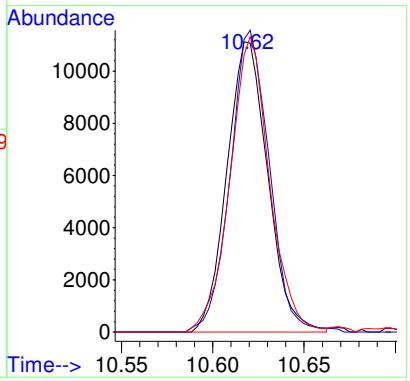


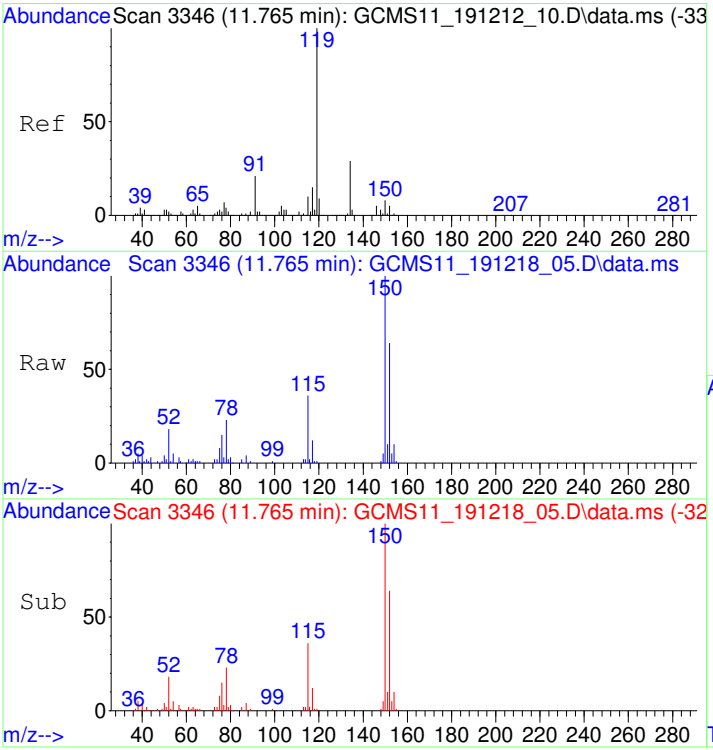


#55
4-BROMOFLUOROBENZENE
Concen: 45.31 ng
RT: 10.62 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191218_05.D
Acq: 18 Dec 2019 7:17 pm

Tgt Ion: 95 Resp: 17335

Ion	Ratio	Lower	Upper
95	100		
174	99.3	68.5	128.5
176	97.8	66.8	126.8

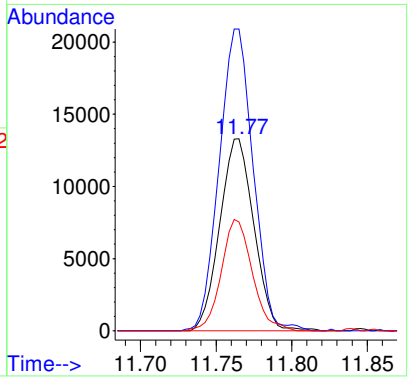


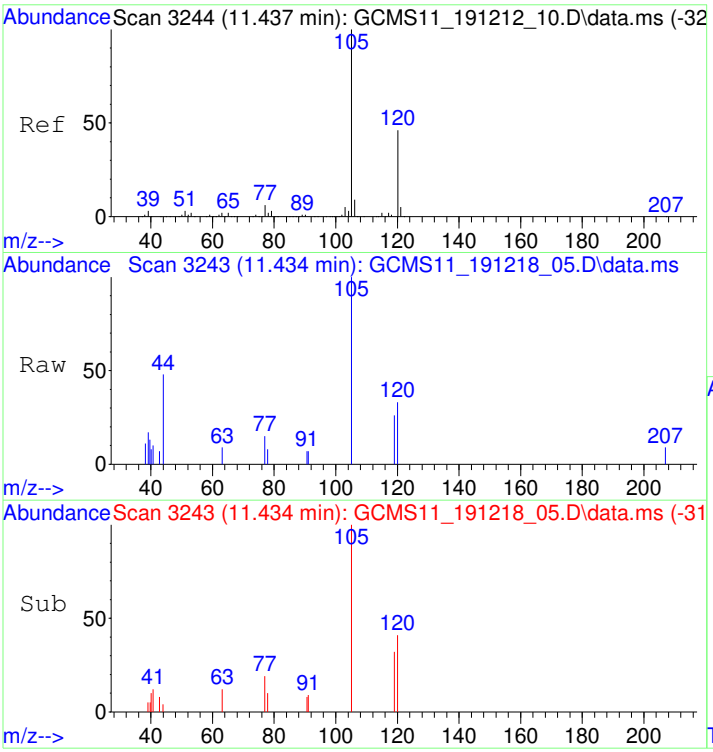


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191218_05.D
Acq: 18 Dec 2019 7:17 pm

Tgt Ion:152 Resp: 20893

Ion	Ratio	Lower	Upper
152	100		
150	155.9	162.5	222.5#
115	52.7	82.3	142.3#

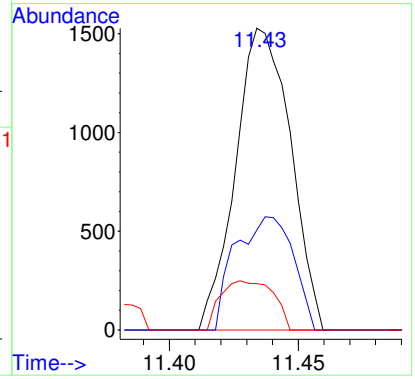




#65
1,2,4-Trimethylbenzene
Concen: 2.01 ng
RT: 11.43 min Scan# 3243
Delta R.T. -0.003 min
Lab File: GCMS11_191218_05.D
Acq: 18 Dec 2019 7:17 pm

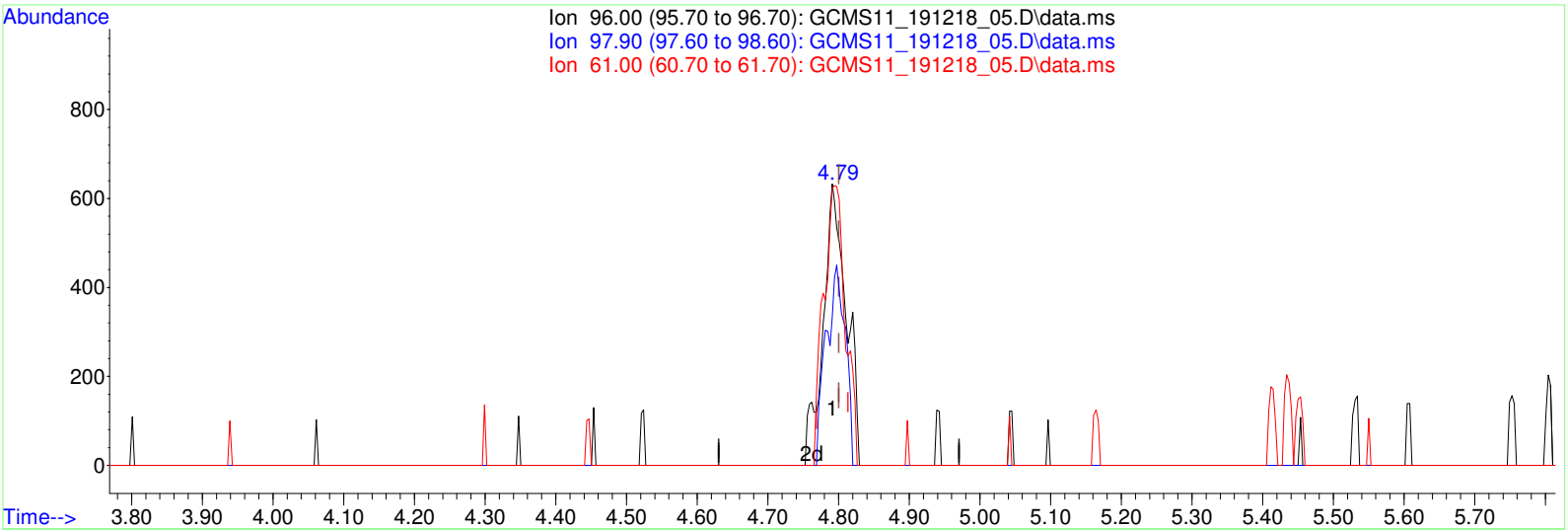
Tgt Ion:105 Resp: 2263

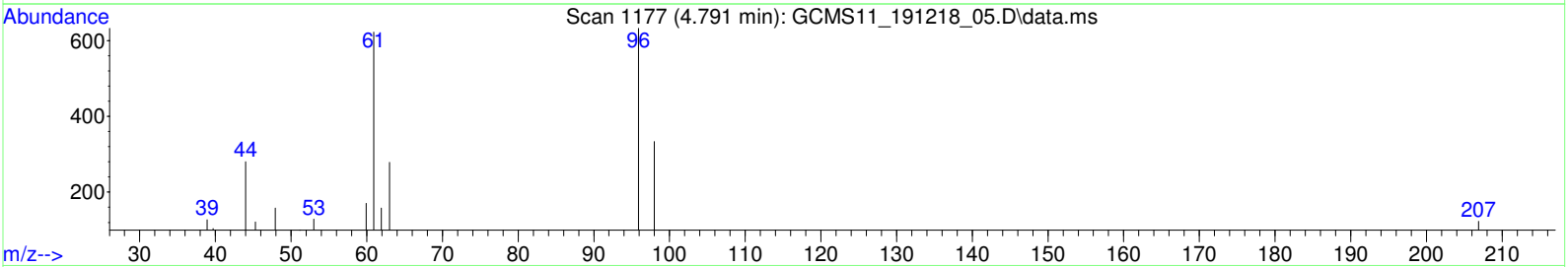
Ion	Ratio	Lower	Upper
105	100		
120	39.5	18.6	78.6
77	15.6	0.0	41.4

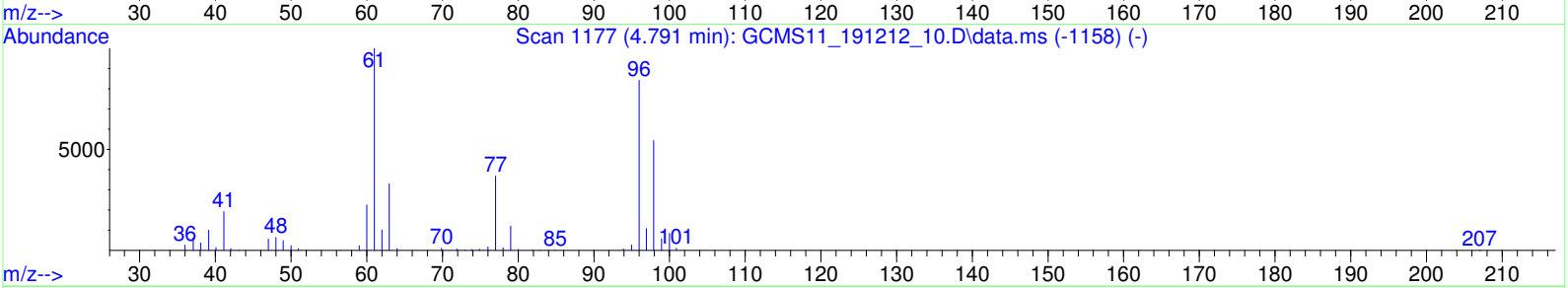


Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_05.D
Acq On : 18 Dec 2019 7:17 pm
Operator : ko
Sample : 1912013-03RE1
Misc : LIMS 19L1101
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 19 08:15:59 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration







TIC: GCMS11_191218_05.D\data.ms

(18) cis-1,2-Dichloroethene (M)

4.791min (-0.010) 3.90 ng m

response 1439

Ion	Exp%	Act%
96.00	100.00	100.00
97.90	60.60	59.35
61.00	126.60	93.26#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_33.D
Acq On : 17 Dec 2019 4:53 am
Operator : ko
Sample : 1912013-04
Misc : LIMS 19L1101, 50X ATOMX DILUTION
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 17 14:58:03 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

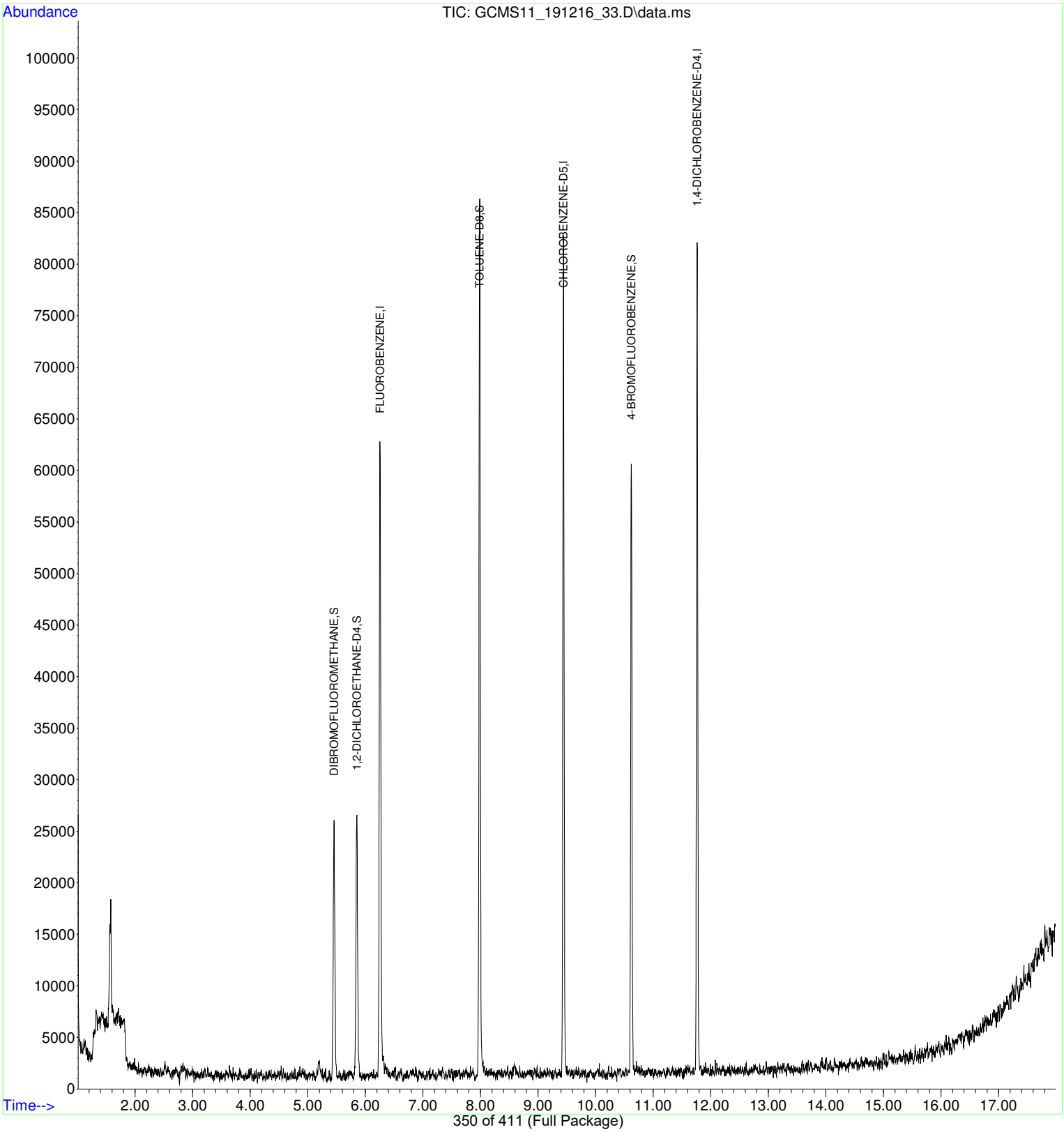
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.26	96	56267	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	21034	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	20927	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.46	113	14918	50.48	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	17432	49.50	ng	0.00
37) TOLUENE-D8	7.98	98	53427	48.28	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	18084	47.42	ng	0.00

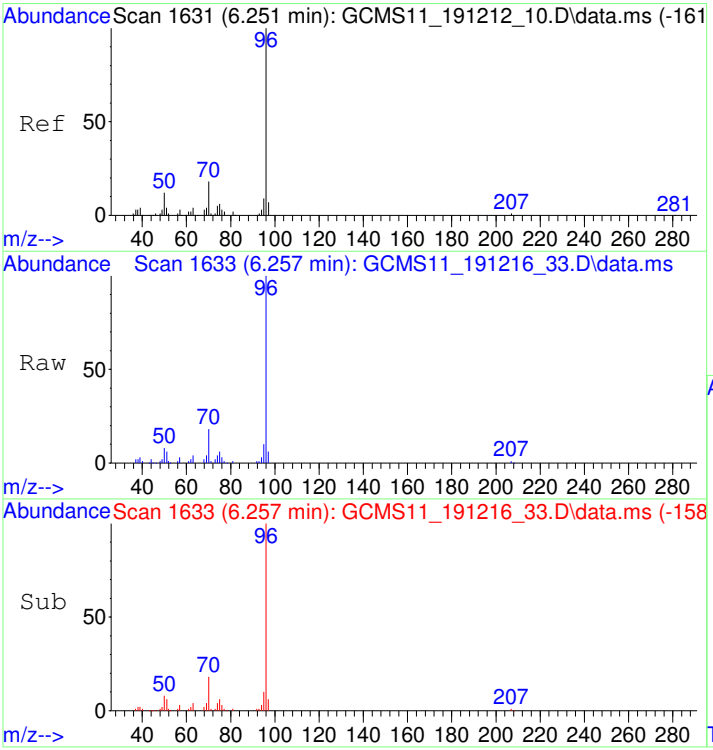
Target Compounds	Qvalue

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

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_33.D
Acq On : 17 Dec 2019 4:53 am
Operator : ko
Sample : 1912013-04
Misc : LIMS 19L1101, 50X ATOMX DILUTION
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 17 14:58:03 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

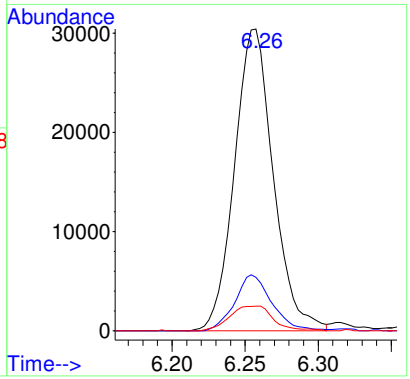


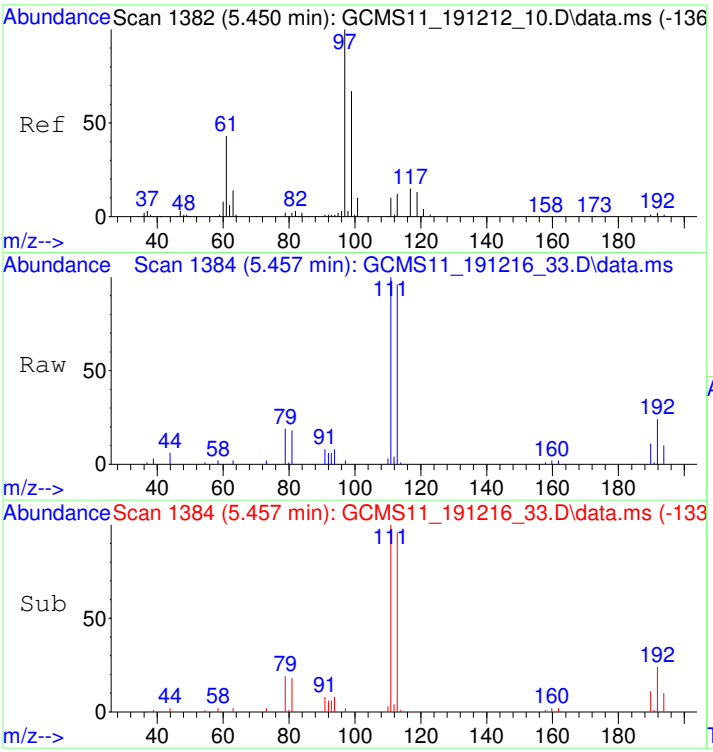


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.26 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191216_33.D
Acq: 17 Dec 2019 4:53 am

Tgt Ion: 96 Resp: 56267

Ion	Ratio	Lower	Upper
96	100		
70	17.7	0.0	48.3
50	9.2	0.0	39.5

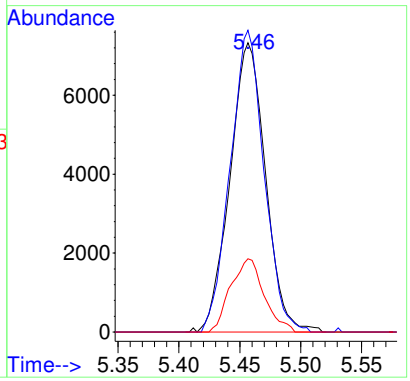


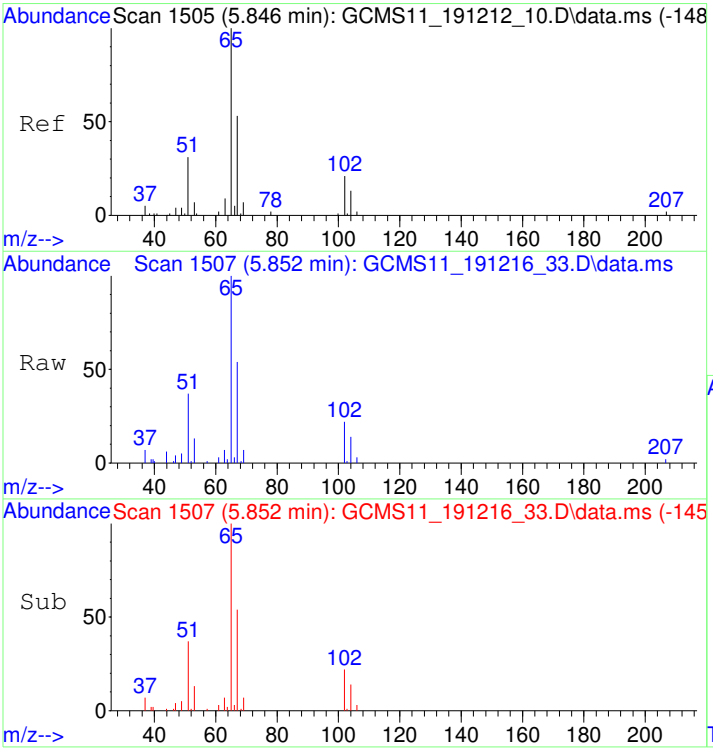


#22
DIBROMOFLUOROMETHANE
Concen: 50.48 ng
RT: 5.46 min Scan# 1384
Delta R.T. -0.003 min
Lab File: GCMS11_191216_33.D
Acq: 17 Dec 2019 4:53 am

Tgt Ion:113 Resp: 14918

Ion	Ratio	Lower	Upper
113	100		
111	99.4	75.2	135.2
192	23.8	0.0	52.1

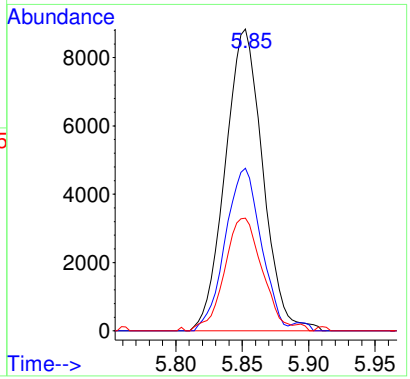


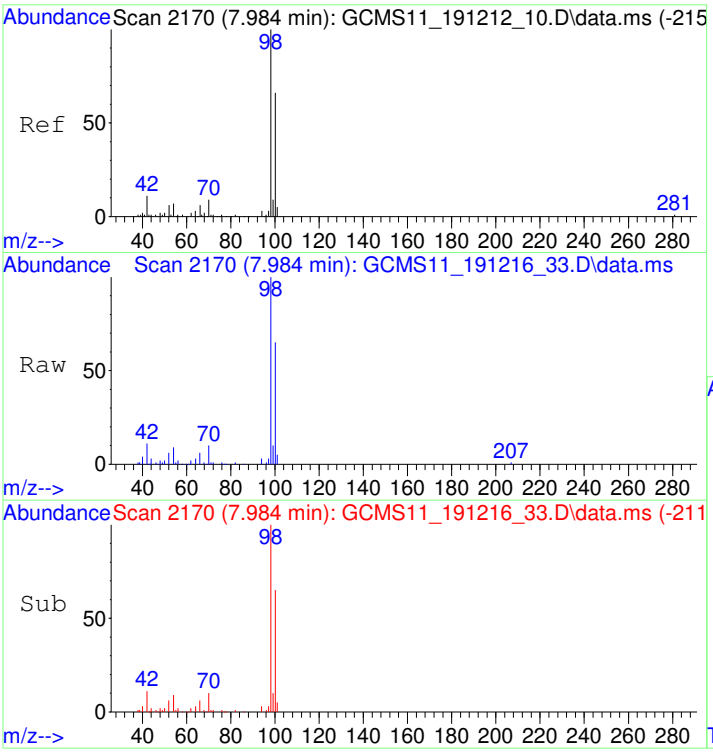


#26
1,2-DICHLOROETHANE-D4
Concen: 49.50 ng
RT: 5.85 min Scan# 1507
Delta R.T. 0.000 min
Lab File: GCMS11_191216_33.D
Acq: 17 Dec 2019 4:53 am

Tgt Ion: 65 Resp: 17432

Ion	Ratio	Lower	Upper
65	100		
67	51.3	15.4	75.4
51	37.8	2.7	62.7

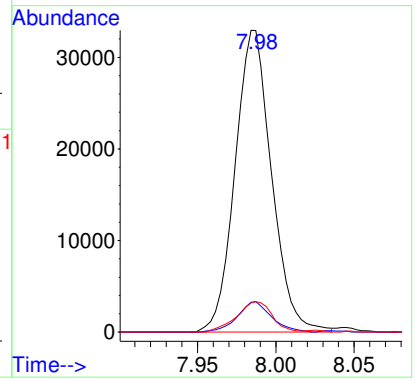


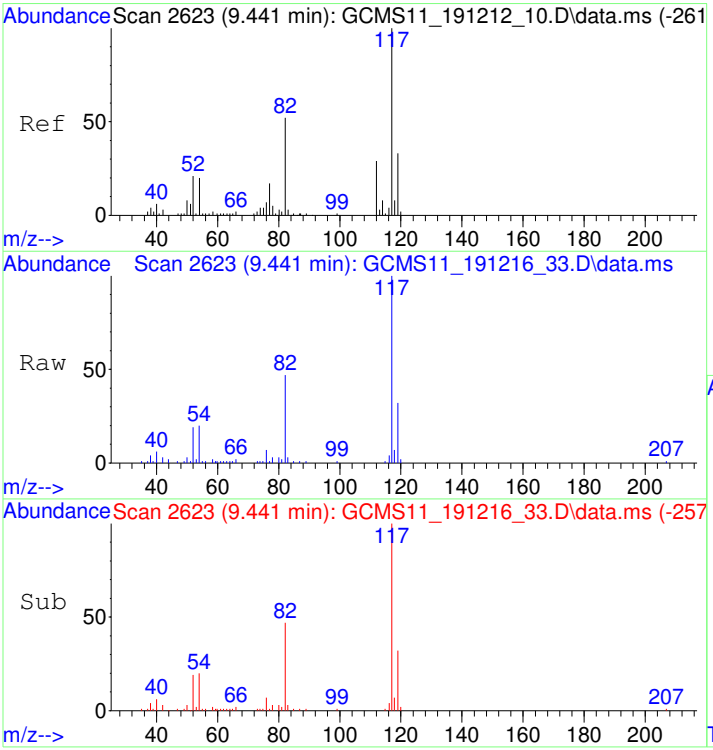


#37
TOLUENE-D8
Concen: 48.28 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191216_33.D
Acq: 17 Dec 2019 4:53 am

Tgt Ion: 98 Resp: 53427

Ion	Ratio	Lower	Upper
98	100		
99	9.4	0.0	39.8
70	9.8	0.0	40.7

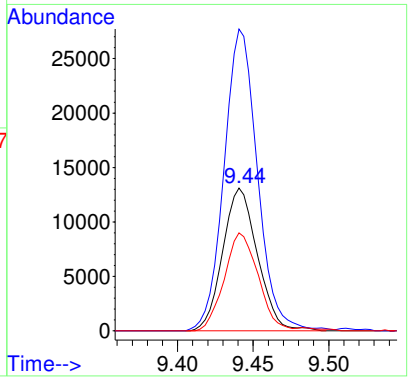


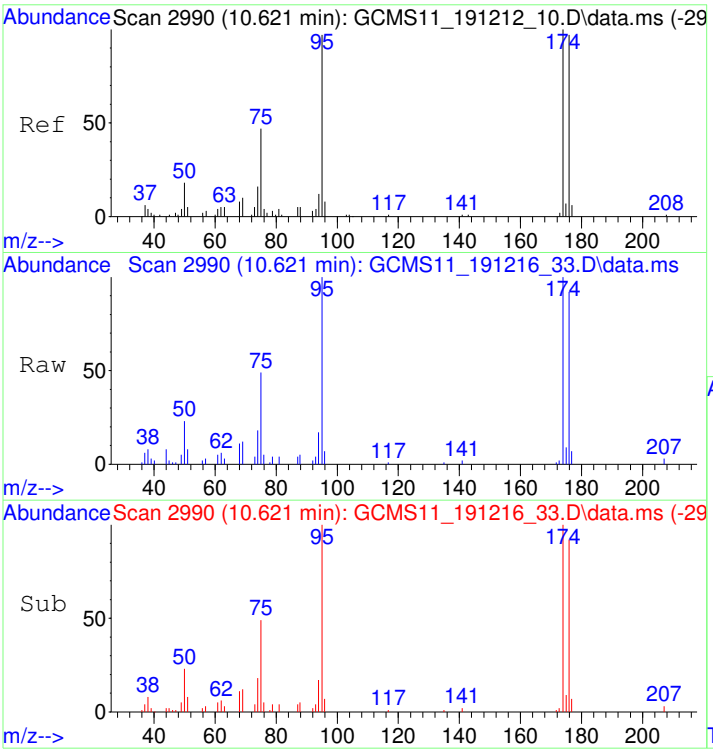


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.001 min
Lab File: GCMS11_191216_33.D
Acq: 17 Dec 2019 4:53 am

Tgt Ion: 82 Resp: 21034

Ion	Ratio	Lower	Upper
82	100		
117	203.0	160.7	220.7
119	66.6	33.5	93.5

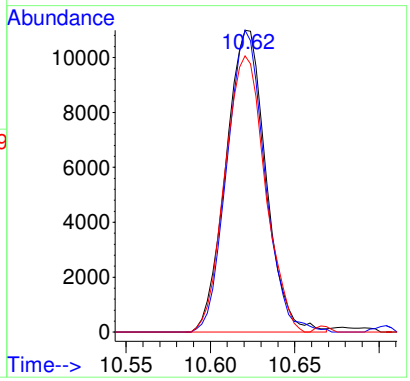


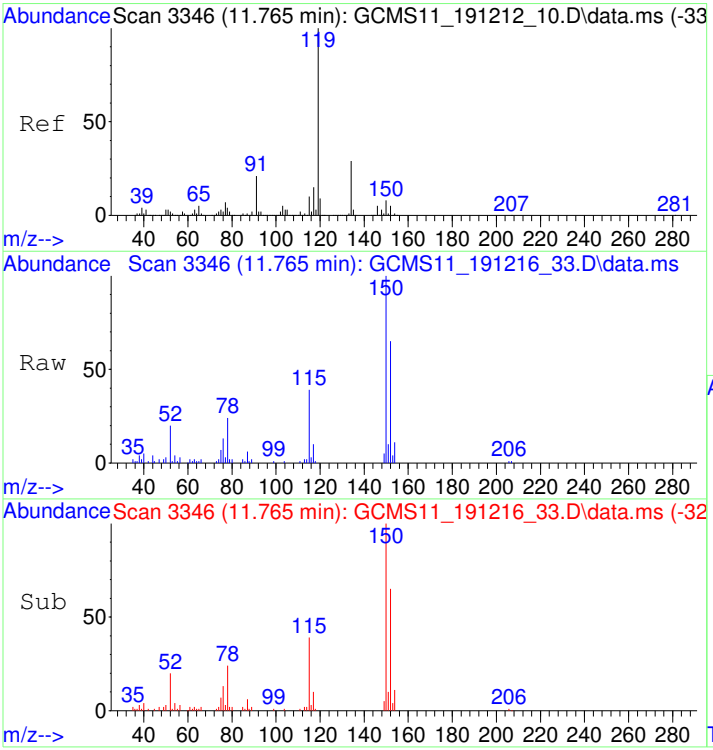


#55
4-BROMOFLUOROBENZENE
Concen: 47.42 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191216_33.D
Acq: 17 Dec 2019 4:53 am

Tgt Ion: 95 Resp: 18084

Ion	Ratio	Lower	Upper
95	100		
174	94.3	68.5	128.5
176	91.8	66.8	126.8

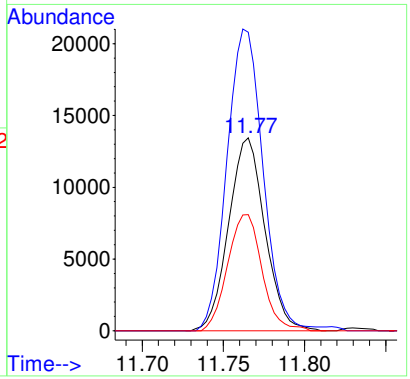




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191216_33.D
Acq: 17 Dec 2019 4:53 am

Tgt Ion:152 Resp: 20927

Ion	Ratio	Lower	Upper
152	100		
150	155.4	162.5	222.5#
115	57.1	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_06.D
Acq On : 18 Dec 2019 7:45 pm
Operator : ko
Sample : 1912013-04RE1
Misc : LIMS 19L1101
ALS Vial : 5 Sample Multiplier: 1

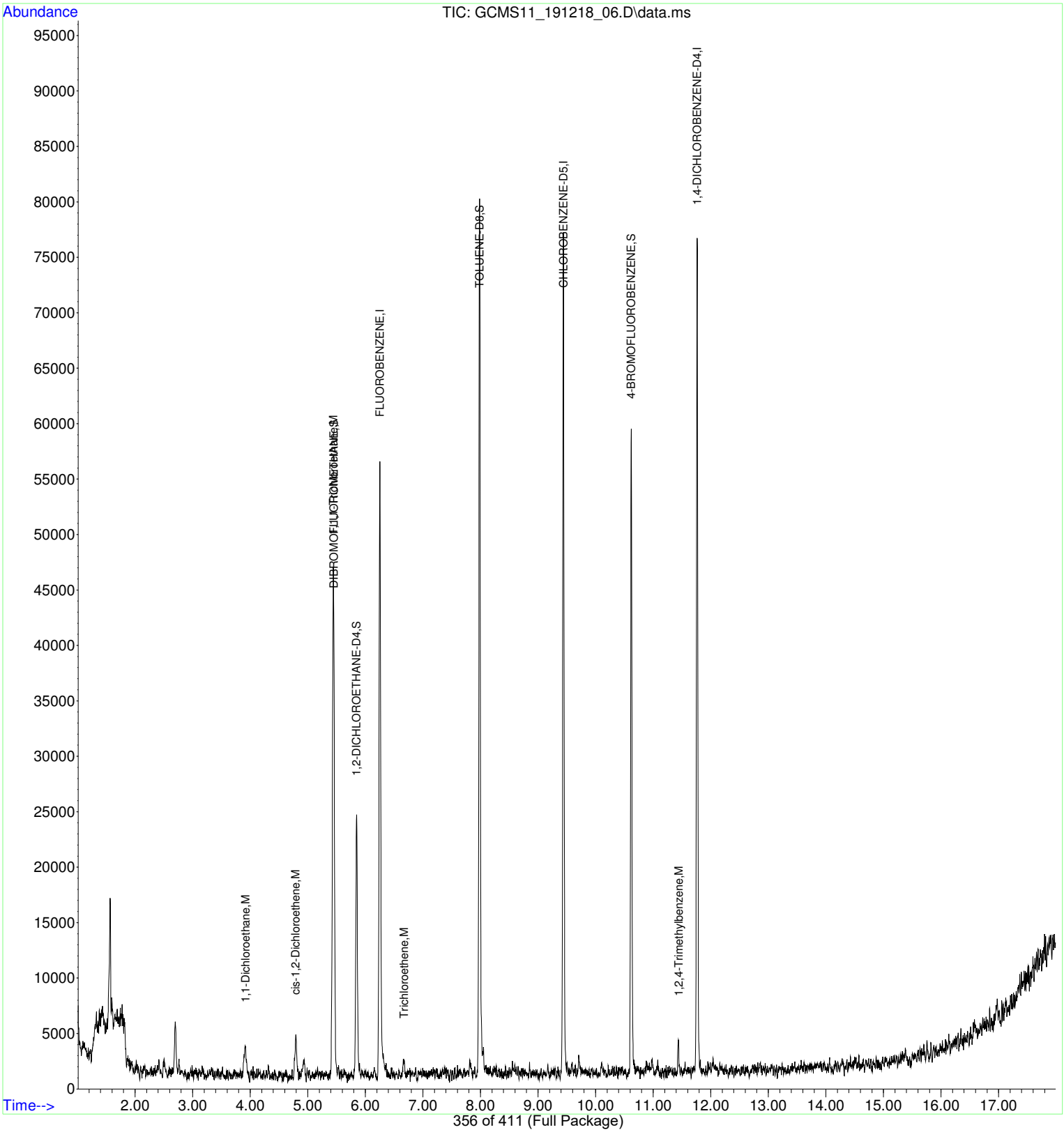
Quant Time: Dec 19 08:18:36 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

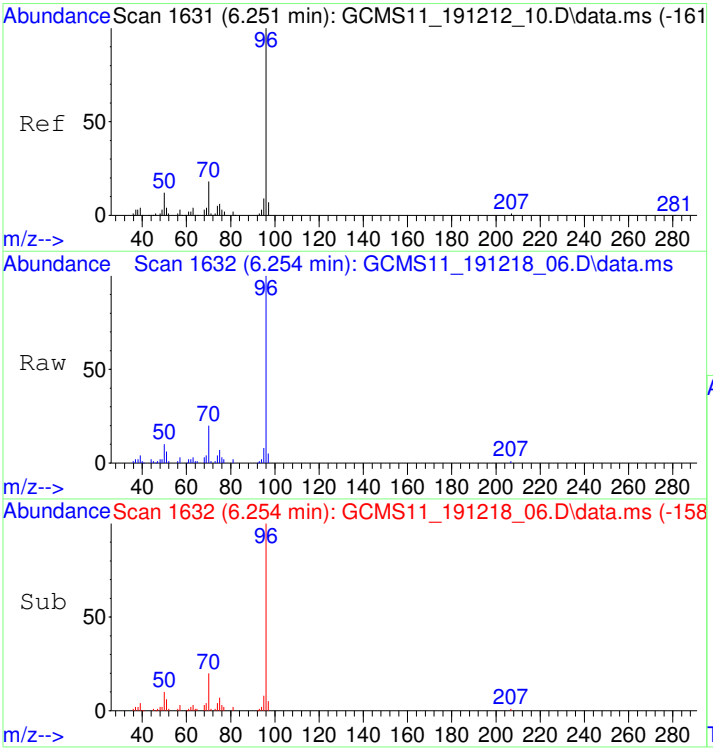
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.25	96	52800	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	19571	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	19095	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.45	113	14330	51.68	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	16193	49.00	ng	0.00
37) TOLUENE-D8	7.98	98	52522	50.58	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	16332	46.03	ng	0.00
Target Compounds						Qvalue
16) 1,1-Dichloroethane	3.92	63	3321	6.51	ng	94
18) cis-1,2-Dichloroethene	4.79	96	2005	6.01	ng	85
23) 1,1,1-Trichloroethane	5.44	97	19492	42.13	ng	95
29) Trichloroethene	6.67	95	546	1.81	ng	73
65) 1,2,4-Trimethylbenzene	11.44	105	1371	1.33	ng	87

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

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_06.D
Acq On : 18 Dec 2019 7:45 pm
Operator : ko
Sample : 1912013-04RE1
Misc : LIMS 19L1101
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 19 08:18:36 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

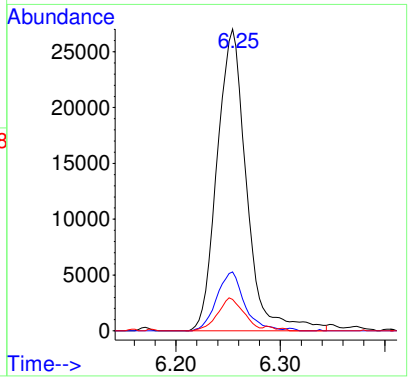


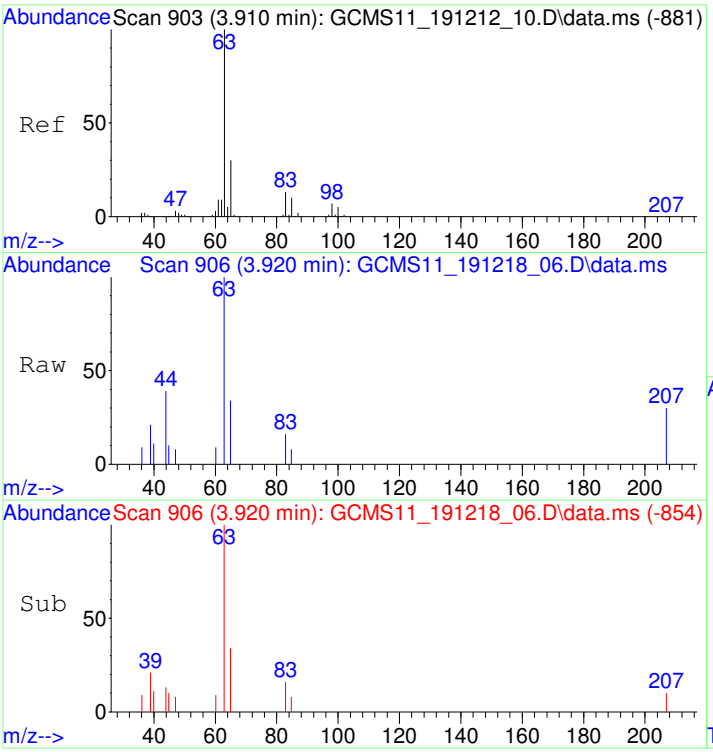


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191218_06.D
Acq: 18 Dec 2019 7:45 pm

Tgt Ion: 96 Resp: 52800

Ion	Ratio	Lower	Upper
96	100		
70	18.4	0.0	48.3
50	9.7	0.0	39.5

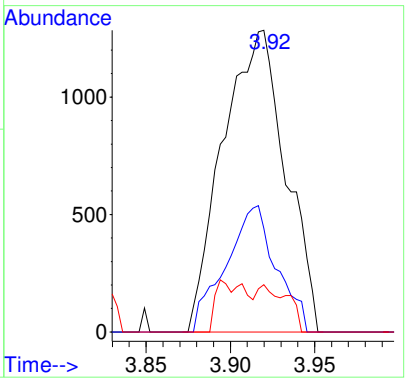


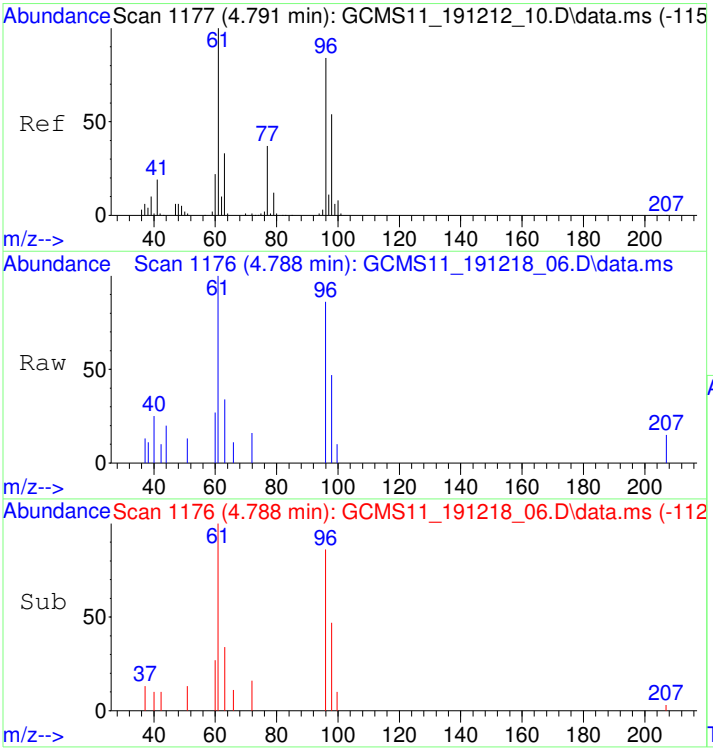


#16
1,1-Dichloroethane
Concen: 6.51 ng
RT: 3.92 min Scan# 906
Delta R.T. -0.003 min
Lab File: GCMS11_191218_06.D
Acq: 18 Dec 2019 7:45 pm

Tgt Ion: 63 Resp: 3321

Ion	Ratio	Lower	Upper
63	100		
65	33.9	2.8	62.8
83	7.4	0.0	44.3

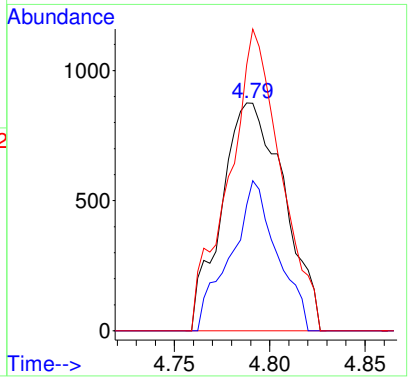


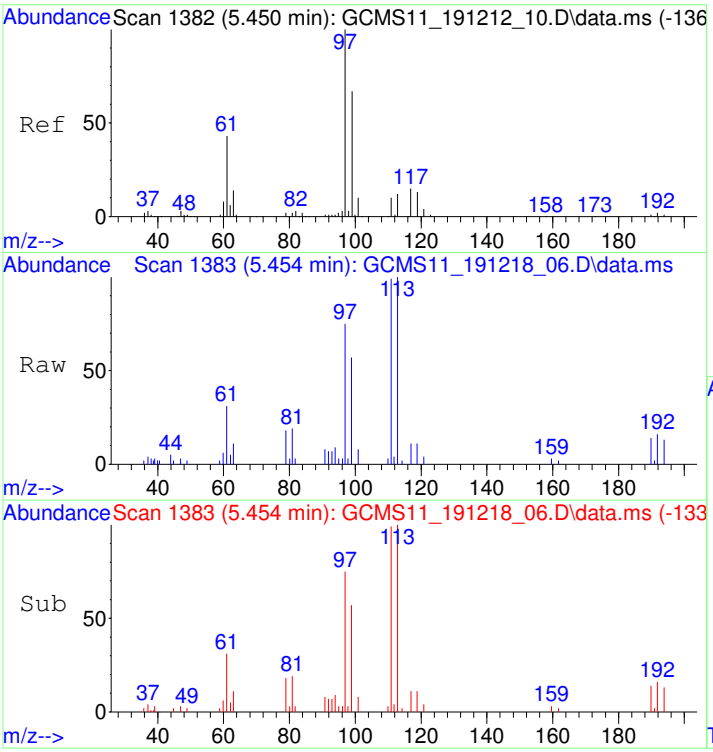


#18
cis-1,2-Dichloroethene
Concen: 6.01 ng
RT: 4.79 min Scan# 1176
Delta R.T. -0.013 min
Lab File: GCMS11_191218_06.D
Acq: 18 Dec 2019 7:45 pm

Tgt Ion: 96 Resp: 2005

Ion	Ratio	Lower	Upper
96	100		
98	48.7	30.6	90.6
61	110.0	96.6	156.6

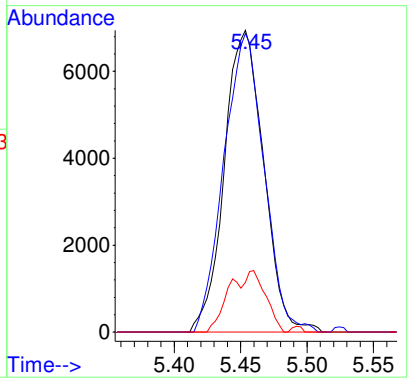


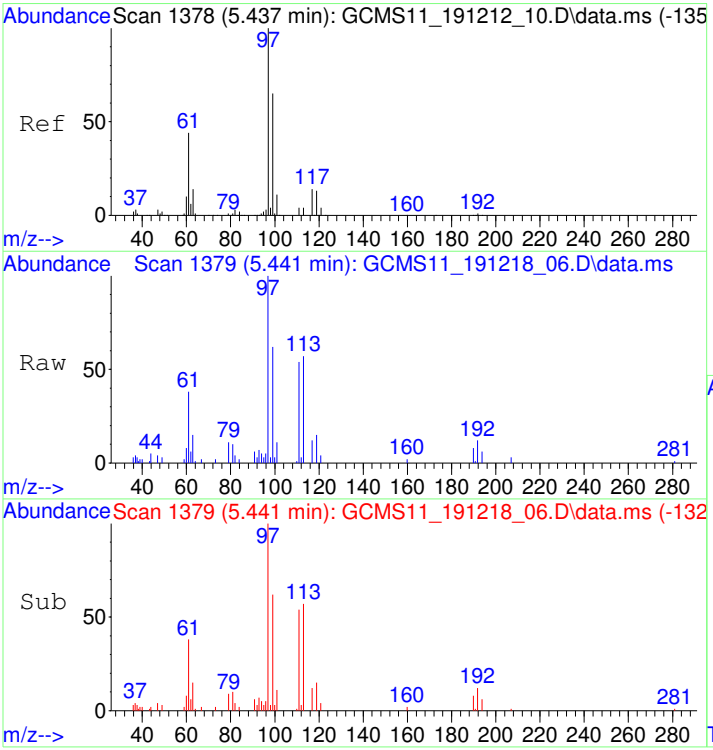


#22
DIBROMOFLUOROMETHANE
Concen: 51.68 ng
RT: 5.45 min Scan# 1383
Delta R.T. -0.006 min
Lab File: GCMS11_191218_06.D
Acq: 18 Dec 2019 7:45 pm

Tgt Ion:113 Resp: 14330

Ion	Ratio	Lower	Upper
113	100		
111	100.7	75.2	135.2
192	10.8	0.0	52.1

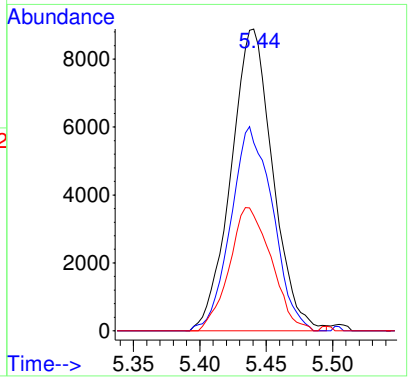


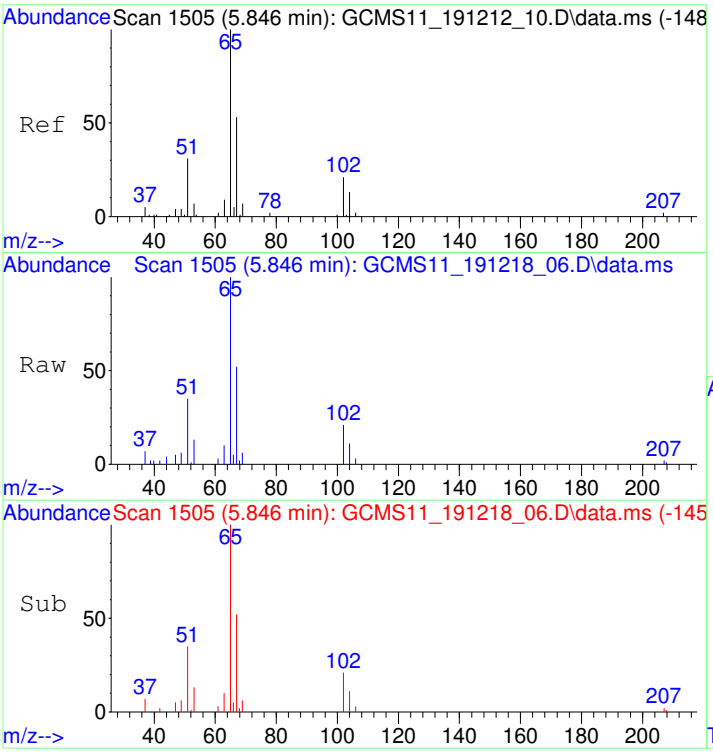


#23
1,1,1-Trichloroethane
Concen: 42.13 ng
RT: 5.44 min Scan# 1379
Delta R.T. -0.003 min
Lab File: GCMS11_191218_06.D
Acq: 18 Dec 2019 7:45 pm

Tgt Ion: 97 Resp: 19492

Ion	Ratio	Lower	Upper
97	100		
99	67.7	32.7	92.7
61	40.9	13.1	73.1

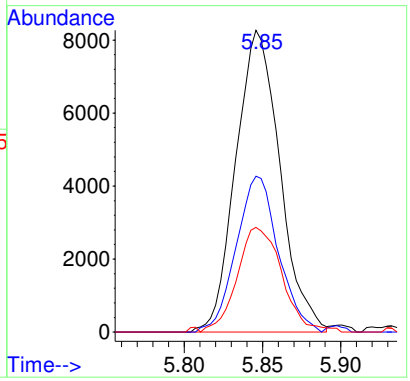


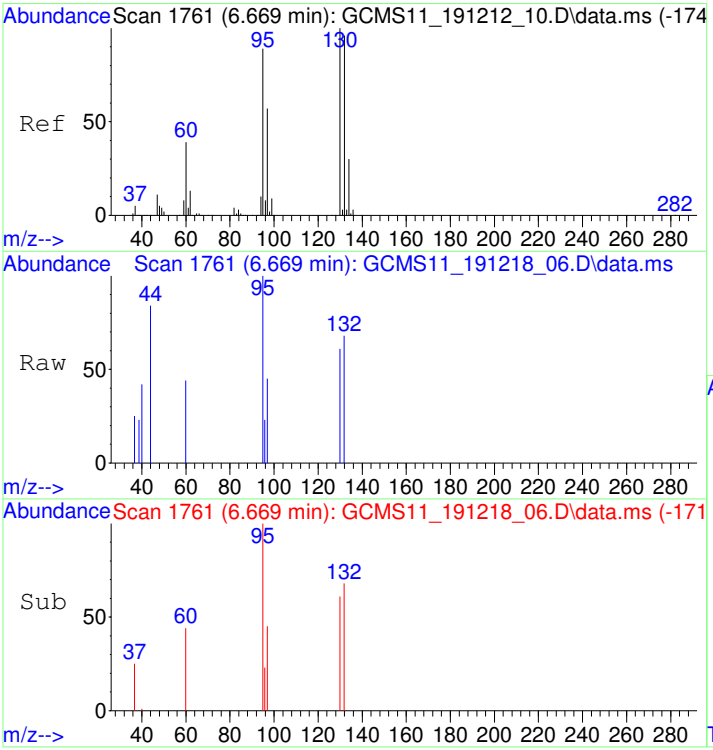


#26
1,2-DICHLOROETHANE-D4
Concen: 49.00 ng
RT: 5.85 min Scan# 1505
Delta R.T. -0.006 min
Lab File: GCMS11_191218_06.D
Acq: 18 Dec 2019 7:45 pm

Tgt Ion: 65 Resp: 16193

Ion	Ratio	Lower	Upper
65	100		
67	49.3	15.4	75.4
51	35.3	2.7	62.7

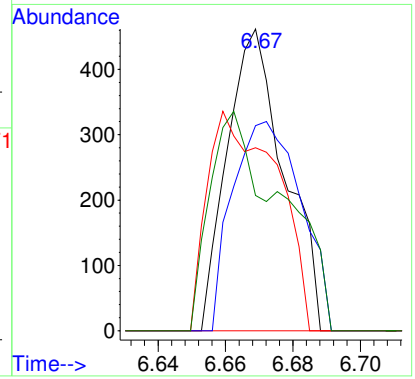


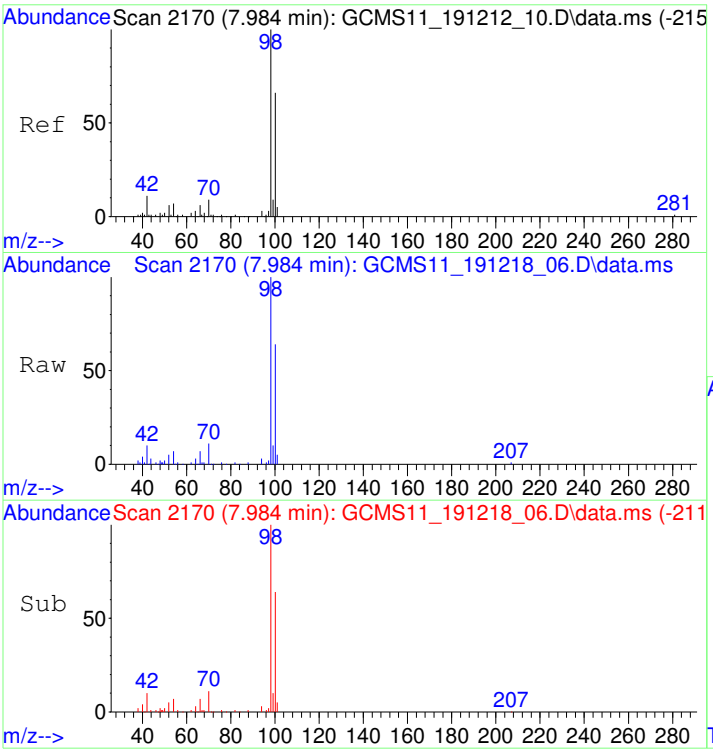


#29
Trichloroethene
Concen: 1.81 ng
RT: 6.67 min Scan# 1761
Delta R.T. -0.006 min
Lab File: GCMS11_191218_06.D
Acq: 18 Dec 2019 7:45 pm

Tgt Ion: 95 Resp: 546

Ion	Ratio	Lower	Upper
95	100		
132	82.8	78.7	138.7
130	87.7	86.1	146.1
97	91.6	37.2	97.2

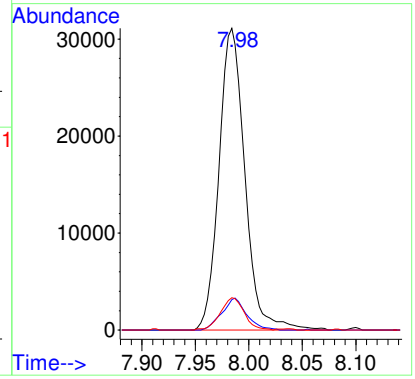


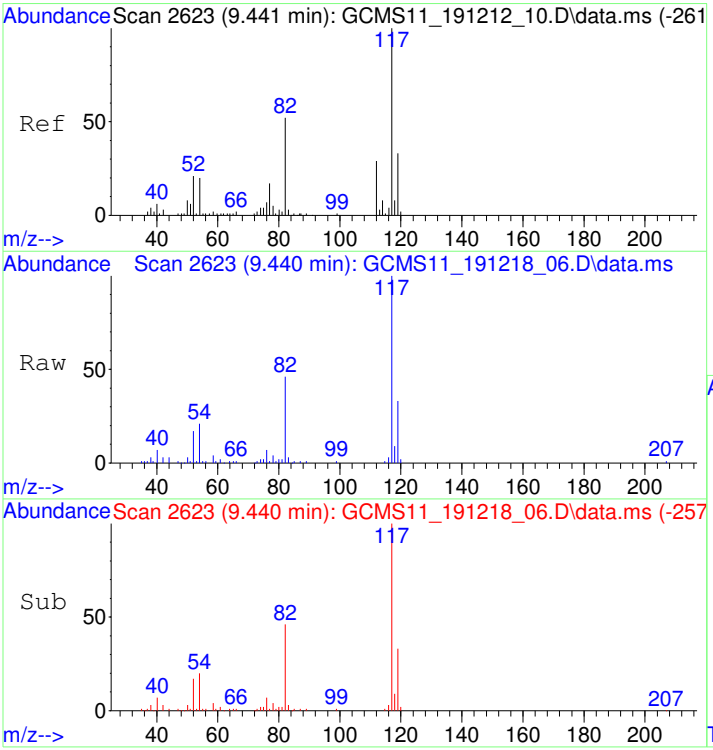


#37
TOLUENE-D8
Concen: 50.58 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191218_06.D
Acq: 18 Dec 2019 7:45 pm

Tgt Ion: 98 Resp: 52522

Ion	Ratio	Lower	Upper
98	100		
99	10.1	0.0	39.8
70	9.9	0.0	40.7

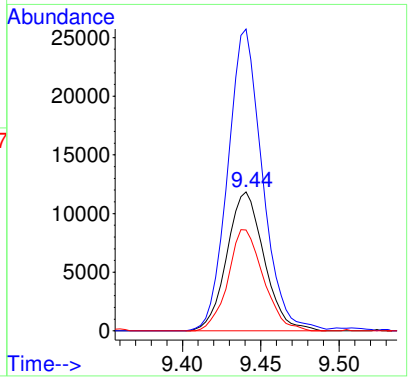


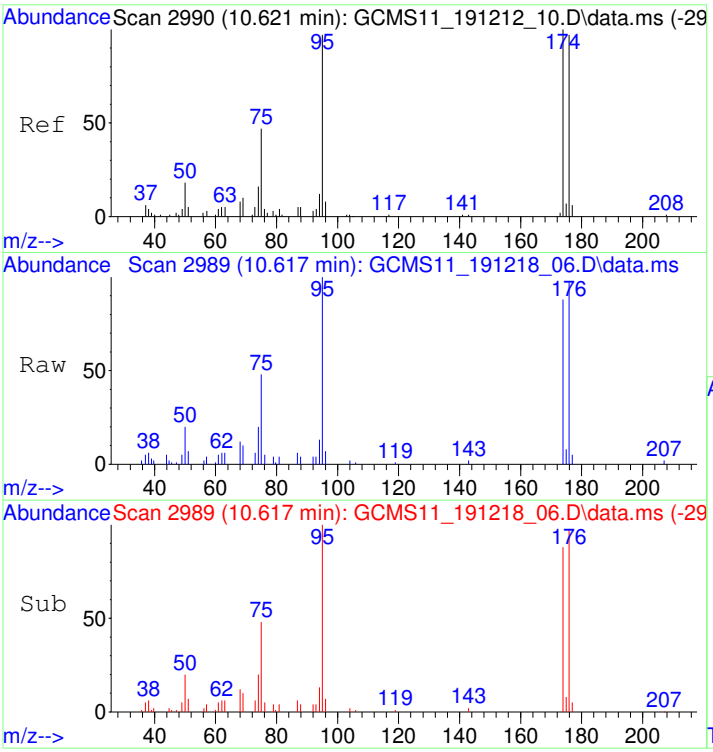


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191218_06.D
Acq: 18 Dec 2019 7:45 pm

Tgt Ion: 82 Resp: 19571

Ion	Ratio	Lower	Upper
82	100		
117	202.6	160.7	220.7
119	69.3	33.5	93.5

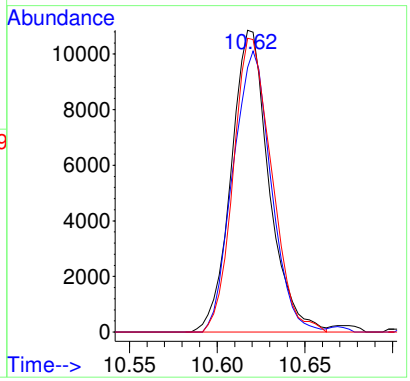


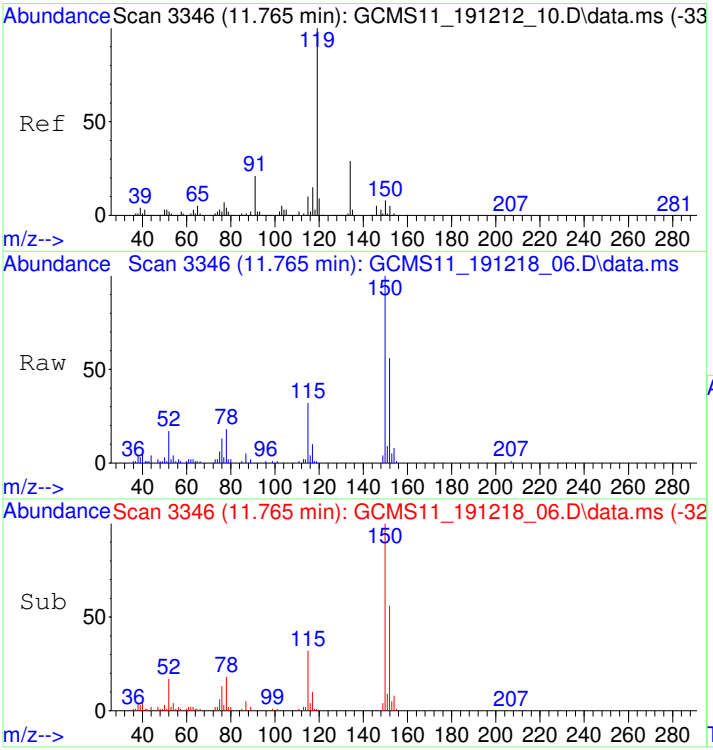


#55
4-BROMOFLUOROBENZENE
Concen: 46.03 ng
RT: 10.62 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191218_06.D
Acq: 18 Dec 2019 7:45 pm

Tgt Ion: 95 Resp: 16332

Ion	Ratio	Lower	Upper
95	100		
174	93.8	68.5	128.5
176	97.9	66.8	126.8

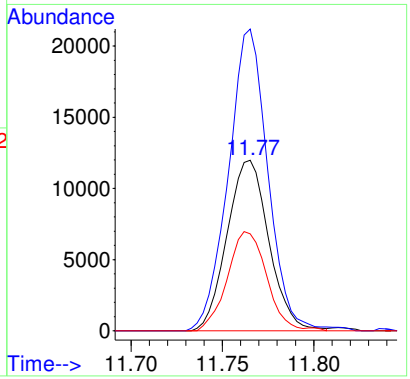


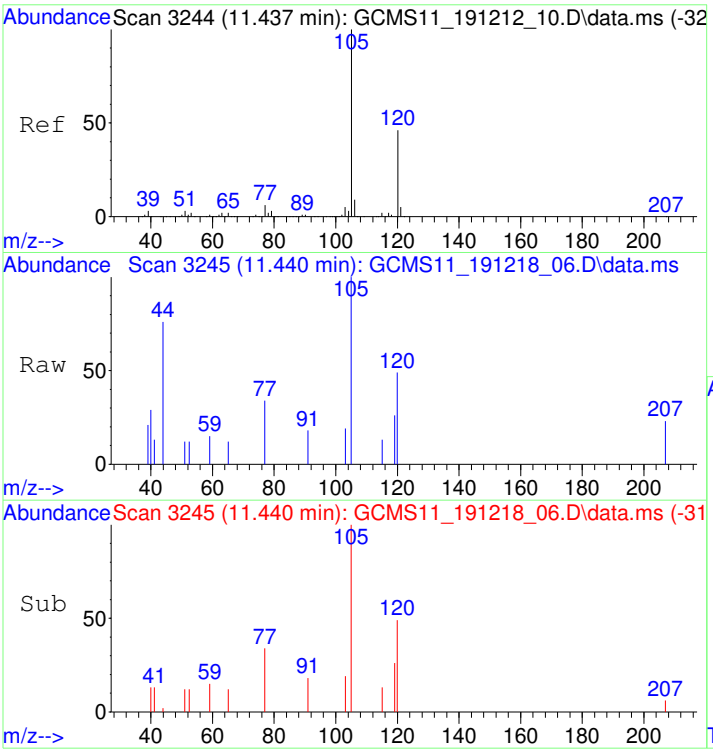


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191218_06.D
Acq: 18 Dec 2019 7:45 pm

Tgt Ion:152 Resp: 19095

Ion	Ratio	Lower	Upper
152	100		
150	167.4	162.5	222.5
115	54.7	82.3	142.3#

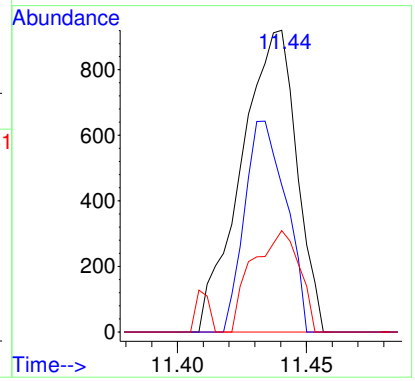




#65
1,2,4-Trimethylbenzene
Concen: 1.33 ng
RT: 11.44 min Scan# 3245
Delta R.T. 0.003 min
Lab File: GCMS11_191218_06.D
Acq: 18 Dec 2019 7:45 pm

Tgt Ion:105 Resp: 1371

Ion	Ratio	Lower	Upper
105	100		
120	52.2	18.6	78.6
77	28.4	0.0	41.4



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_34.D
Acq On : 17 Dec 2019 5:24 am
Operator : ko
Sample : 1912013-05
Misc : LIMS 19L1101, 50X ATOMX DILUTION
ALS Vial : 27 Sample Multiplier: 1

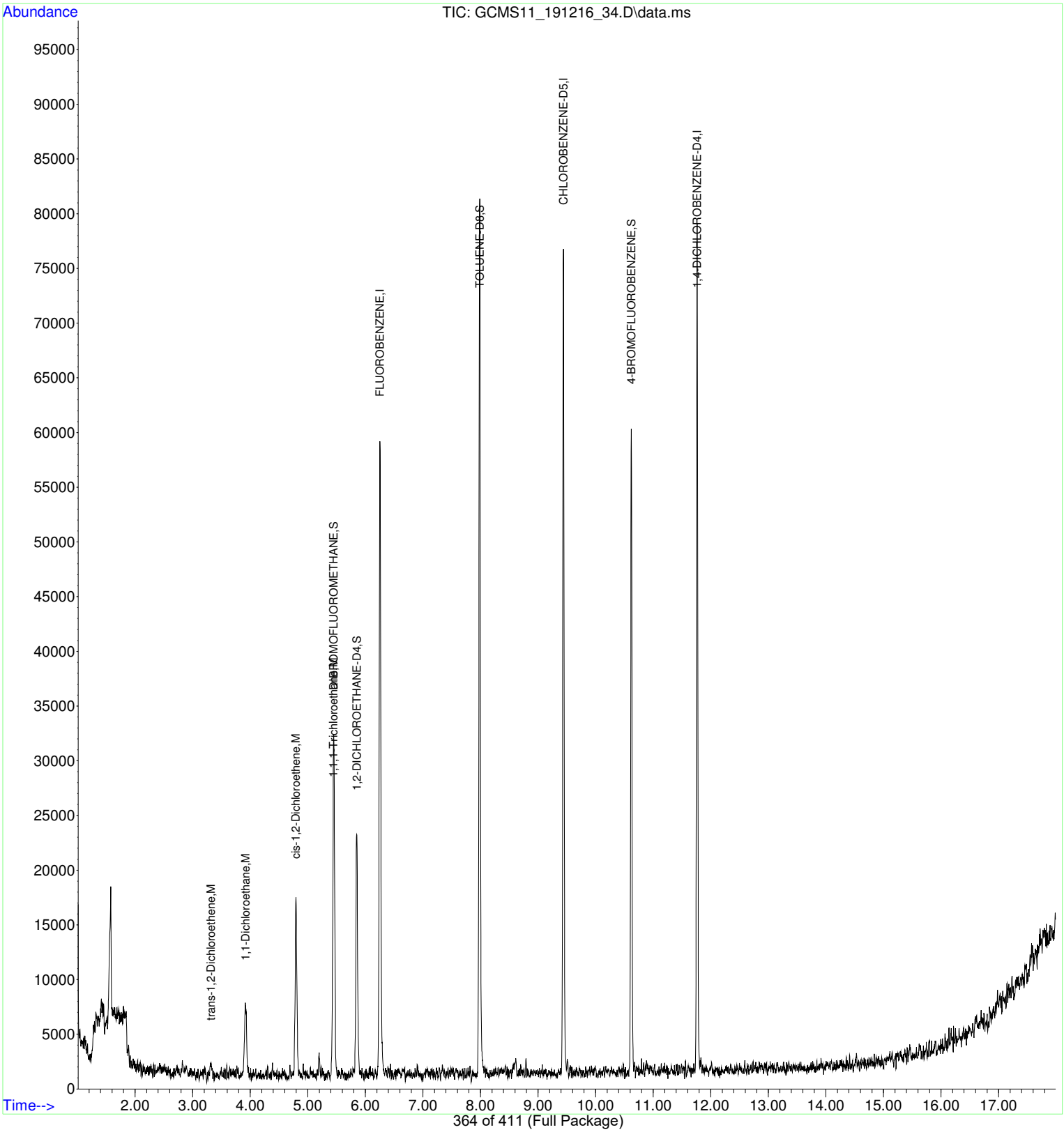
Quant Time: Dec 17 14:59:04 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

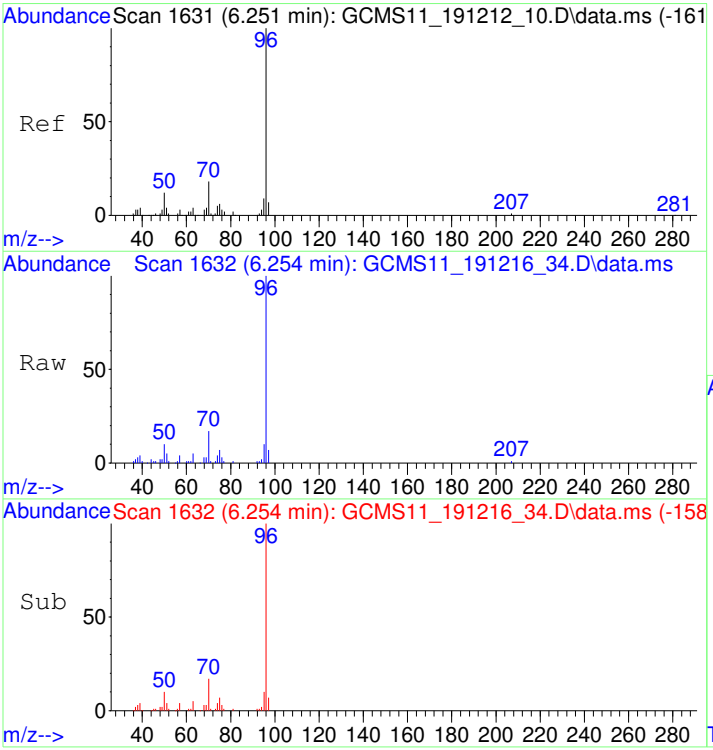
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.25	96	51570	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	20012	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	20152	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.45	113	14761	54.50	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	16028	49.66	ng	0.00
37) TOLUENE-D8	7.99	98	51470	50.75	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	17260	47.57	ng	0.00
Target Compounds						Qvalue
14) trans-1,2-Dichloroethene	3.32	96	317	1.05	ng	# 74
16) 1,1-Dichloroethane	3.92	63	7444	14.94	ng	71
18) cis-1,2-Dichloroethene	4.79	96	8290	25.46	ng	94
23) 1,1,1-Trichloroethane	5.44	97	7024	15.54	ng	95

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

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_34.D
Acq On : 17 Dec 2019 5:24 am
Operator : ko
Sample : 1912013-05
Misc : LIMS 19L1101, 50X ATOMX DILUTION
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 17 14:59:04 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

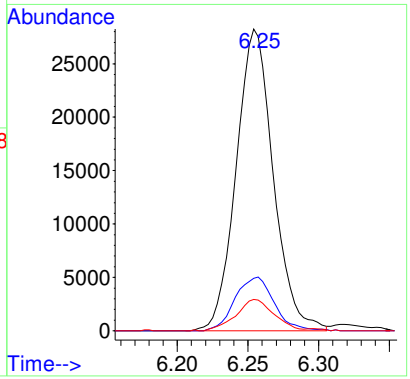


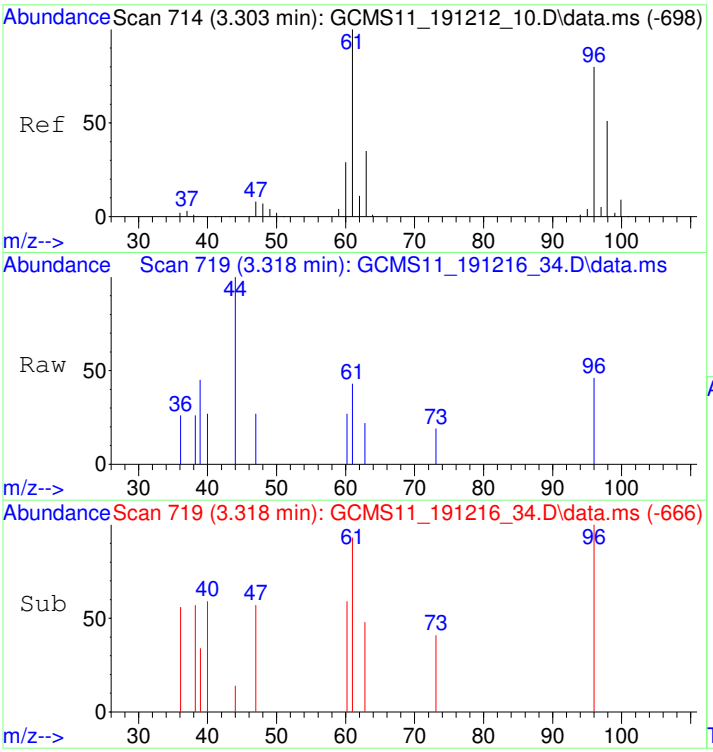


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191216_34.D
Acq: 17 Dec 2019 5:24 am

Tgt Ion: 96 Resp: 51570

Ion	Ratio	Lower	Upper
96	100		
70	18.9	0.0	48.3
50	10.6	0.0	39.5

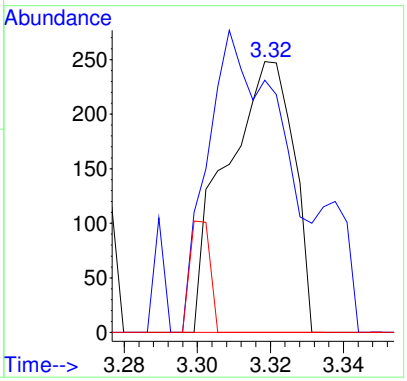


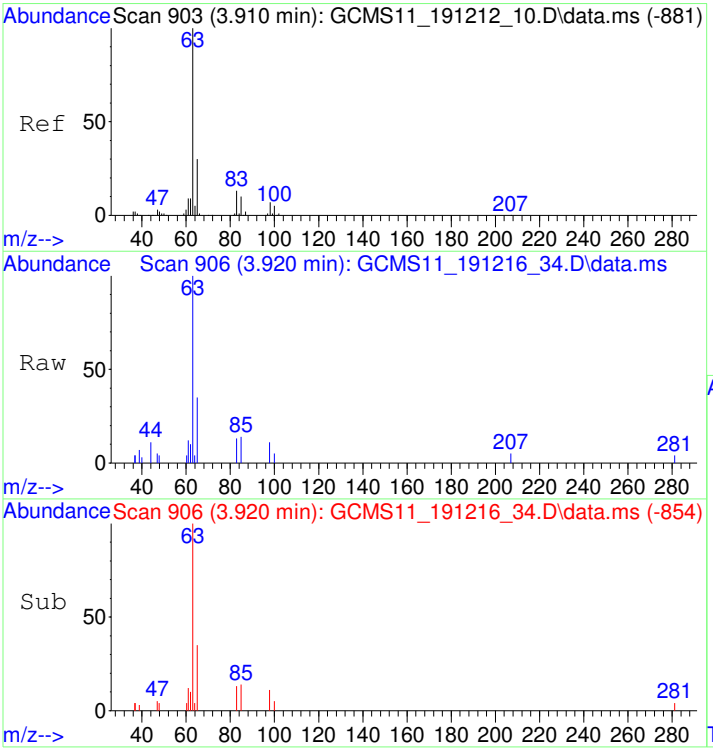


#14
trans-1,2-Dichloroethene
Concen: 1.05 ng
RT: 3.32 min Scan# 719
Delta R.T. -0.000 min
Lab File: GCMS11_191216_34.D
Acq: 17 Dec 2019 5:24 am

Tgt Ion: 96 Resp: 317

Ion	Ratio	Lower	Upper
96	100		
61	124.0	99.6	159.6
98	12.3	35.3	95.3#

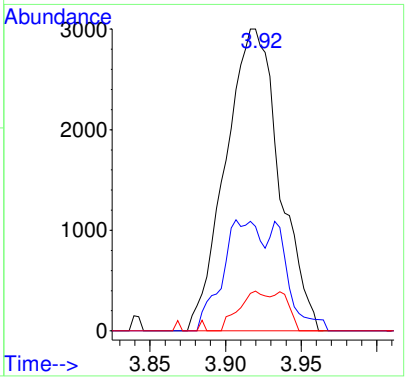


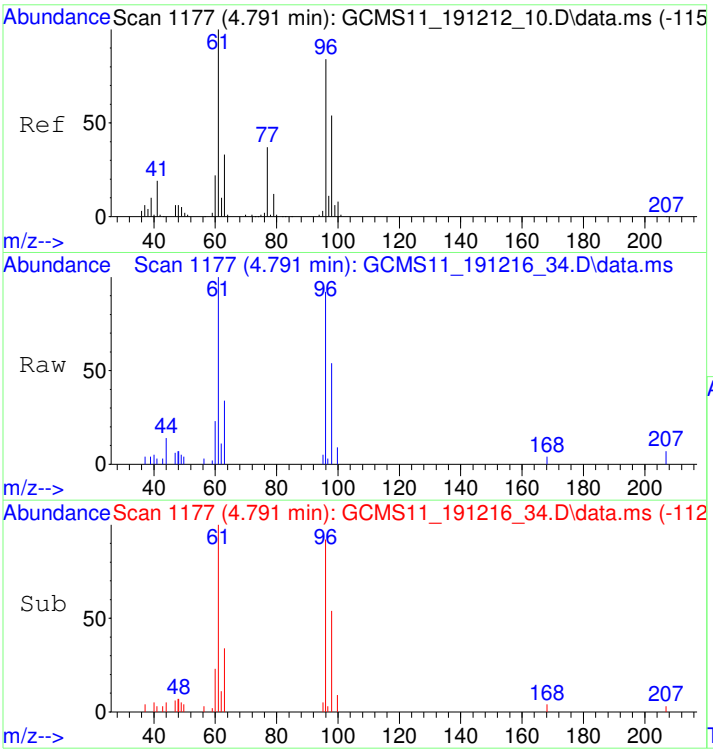


#16
1,1-Dichloroethane
Concen: 14.94 ng
RT: 3.92 min Scan# 906
Delta R.T. -0.003 min
Lab File: GCMS11_191216_34.D
Acq: 17 Dec 2019 5:24 am

Tgt Ion: 63 Resp: 7444

Ion	Ratio	Lower	Upper
63	100		
65	13.5	2.8	62.8
83	7.3	0.0	44.3

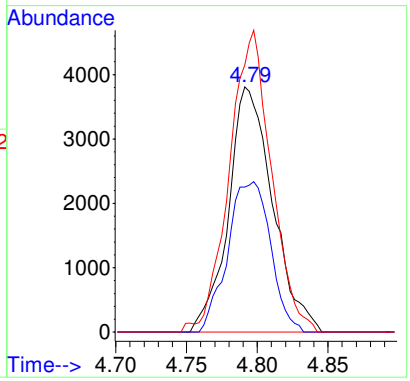


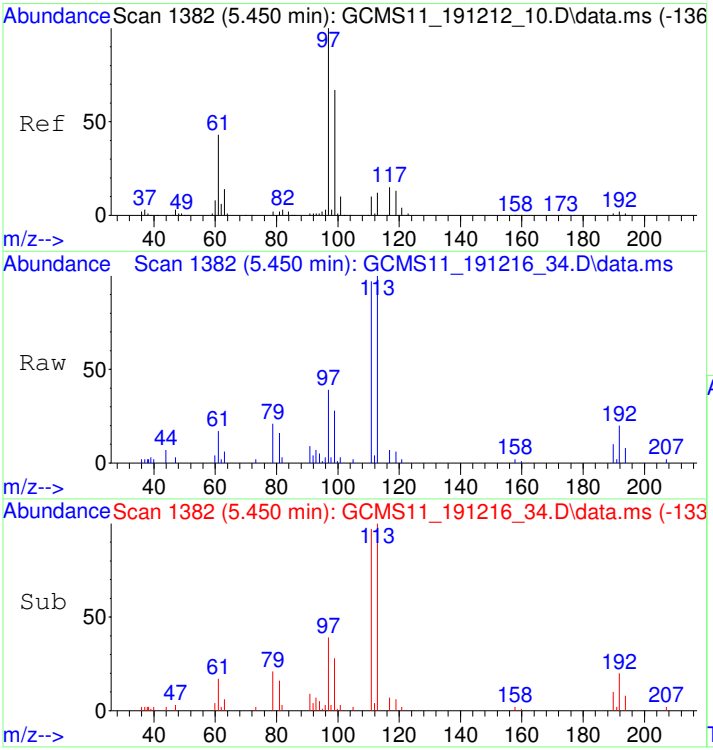


#18
cis-1,2-Dichloroethene
Concen: 25.46 ng
RT: 4.79 min Scan# 1177
Delta R.T. -0.010 min
Lab File: GCMS11_191216_34.D
Acq: 17 Dec 2019 5:24 am

Tgt Ion: 96 Resp: 8290

Ion	Ratio	Lower	Upper
96	100		
98	59.4	30.6	90.6
61	117.1	96.6	156.6

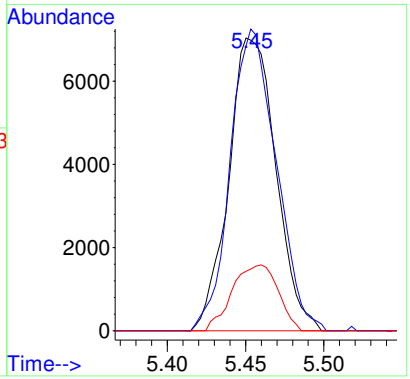


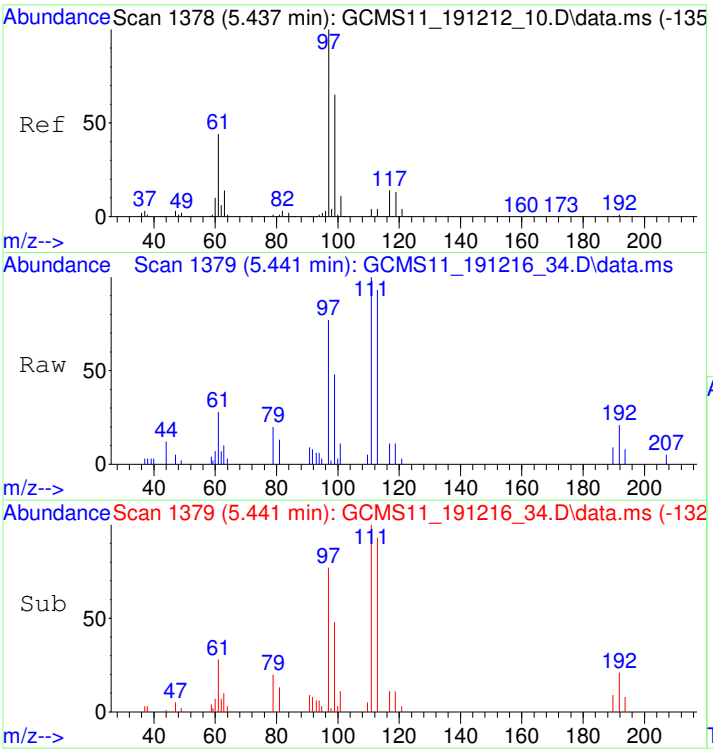


#22
DIBROMOFLUOROMETHANE
Concen: 54.50 ng
RT: 5.45 min Scan# 1382
Delta R.T. -0.010 min
Lab File: GCMS11_191216_34.D
Acq: 17 Dec 2019 5:24 am

Tgt Ion:113 Resp: 14761

Ion	Ratio	Lower	Upper
113	100		
111	100.2	75.2	135.2
192	21.9	0.0	52.1

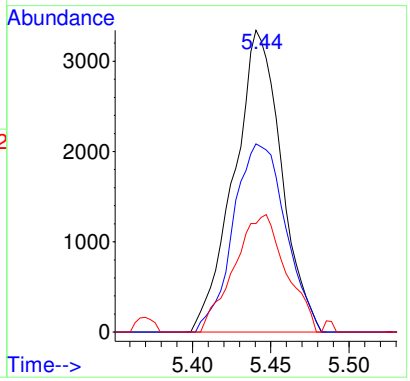


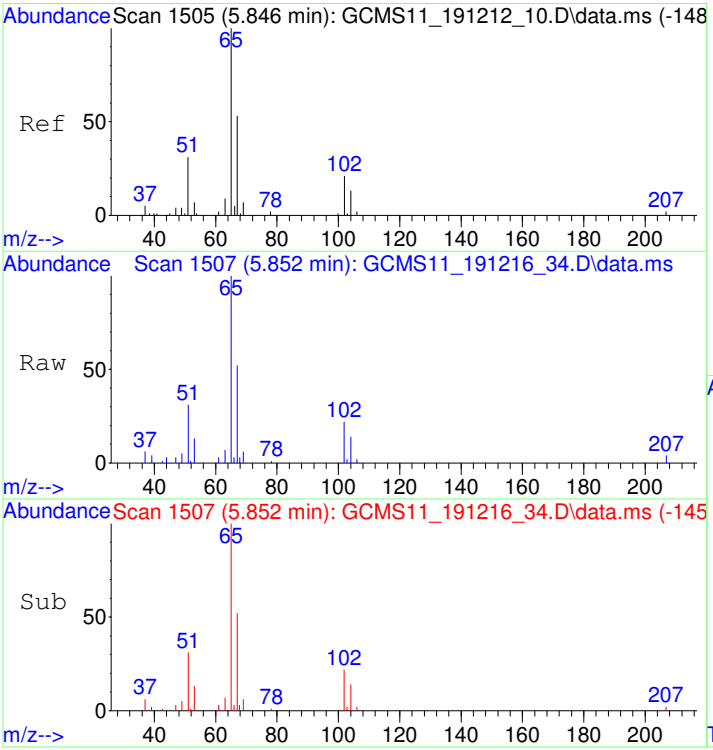


#23
1,1,1-Trichloroethane
Concen: 15.54 ng
RT: 5.44 min Scan# 1379
Delta R.T. -0.003 min
Lab File: GCMS11_191216_34.D
Acq: 17 Dec 2019 5:24 am

Tgt Ion: 97 Resp: 7024

Ion	Ratio	Lower	Upper
97	100		
99	69.1	32.7	92.7
61	42.8	13.1	73.1

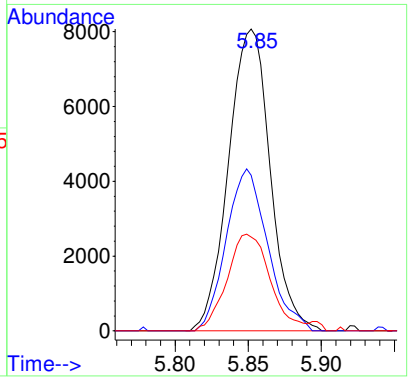


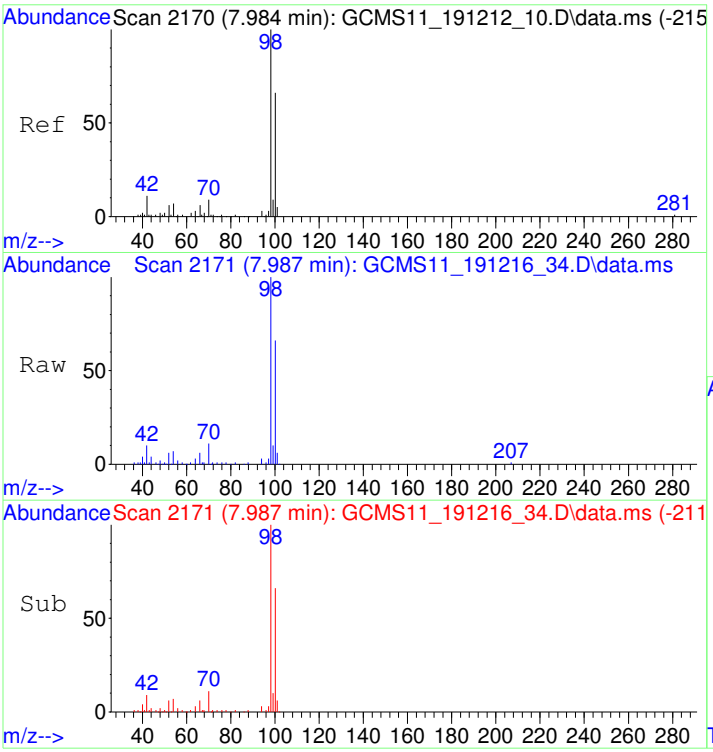


#26
1,2-DICHLOROETHANE-D4
Concen: 49.66 ng
RT: 5.85 min Scan# 1507
Delta R.T. -0.000 min
Lab File: GCMS11_191216_34.D
Acq: 17 Dec 2019 5:24 am

Tgt Ion: 65 Resp: 16028

Ion	Ratio	Lower	Upper
65	100		
67	53.3	15.4	75.4
51	33.2	2.7	62.7

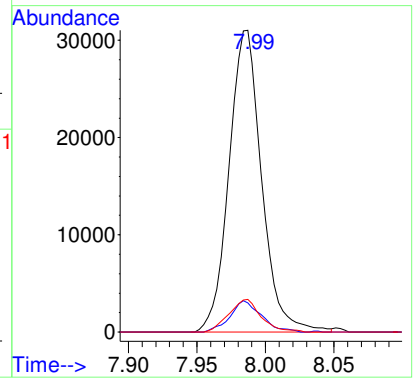


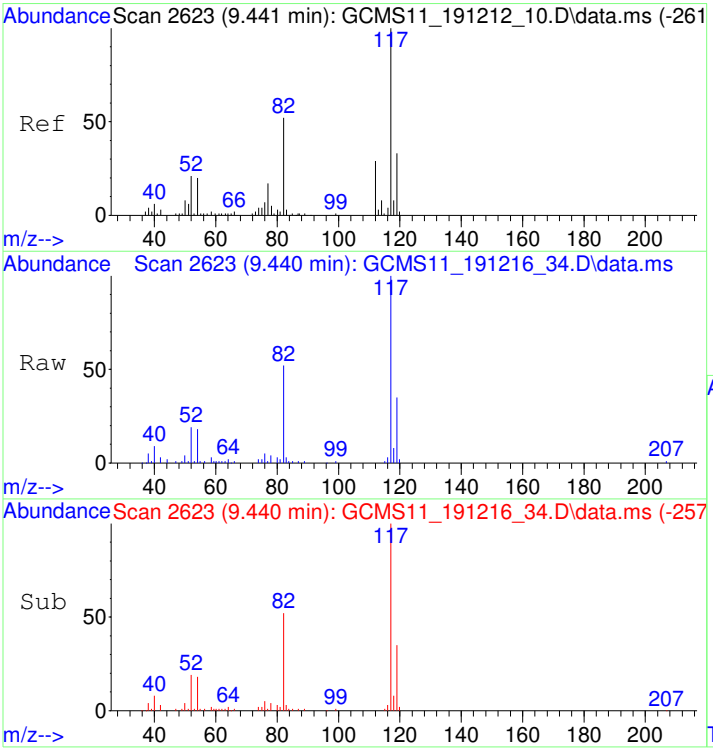


#37
TOLUENE-D8
Concen: 50.75 ng
RT: 7.99 min Scan# 2171
Delta R.T. 0.003 min
Lab File: GCMS11_191216_34.D
Acq: 17 Dec 2019 5:24 am

Tgt Ion: 98 Resp: 51470

Ion	Ratio	Lower	Upper
98	100		
99	9.9	0.0	39.8
70	10.7	0.0	40.7

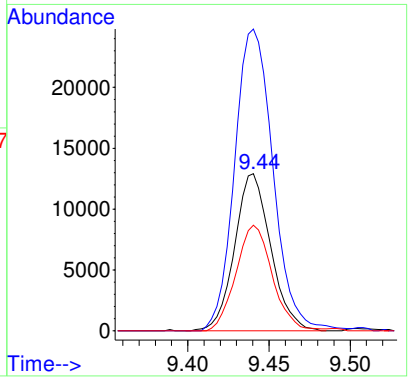


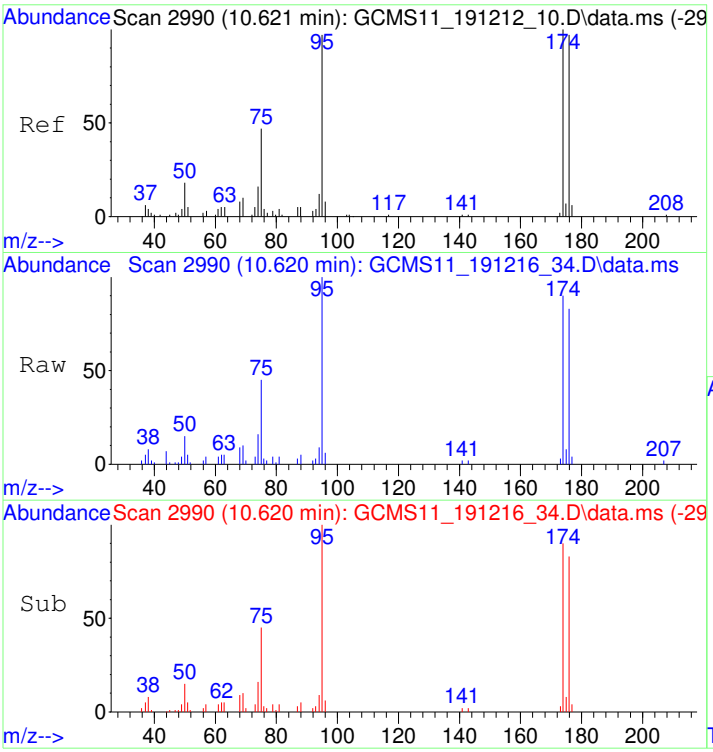


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191216_34.D
Acq: 17 Dec 2019 5:24 am

Tgt Ion: 82 Resp: 20012

Ion	Ratio	Lower	Upper
82	100		
117	204.4	160.7	220.7
119	67.6	33.5	93.5

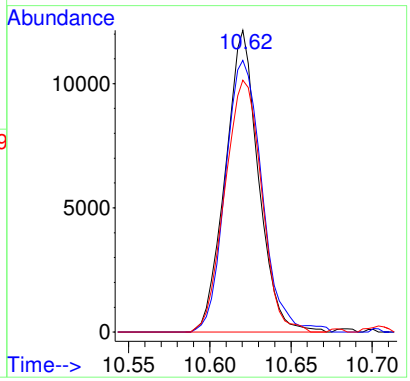


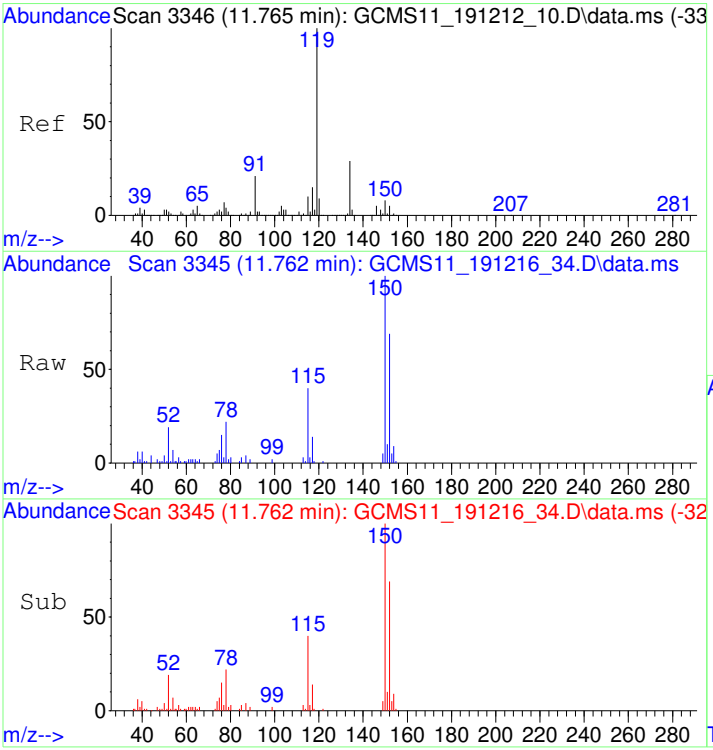


#55
4-BROMOFLUOROBENZENE
Concen: 47.57 ng
RT: 10.62 min Scan# 2990
Delta R.T. -0.000 min
Lab File: GCMS11_191216_34.D
Acq: 17 Dec 2019 5:24 am

Tgt Ion: 95 Resp: 17260

Ion	Ratio	Lower	Upper
95	100		
174	99.6	68.5	128.5
176	92.5	66.8	126.8

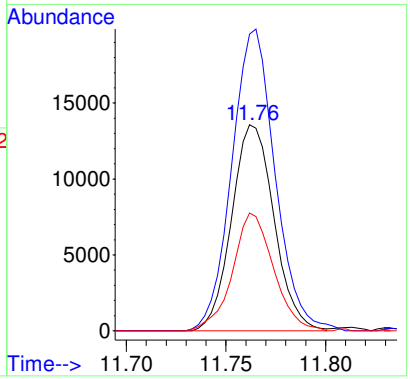




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.76 min Scan# 3345
Delta R.T. -0.003 min
Lab File: GCMS11_191216_34.D
Acq: 17 Dec 2019 5:24 am

Tgt Ion:152 Resp: 20152

Ion	Ratio	Lower	Upper
152	100		
150	149.3	162.5	222.5#
115	55.3	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_08.D
Acq On : 18 Dec 2019 8:41 pm
Operator : ko
Sample : 1912013-05RE1
Misc : 2X ATOMX, 19L1101
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 19 08:24:59 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

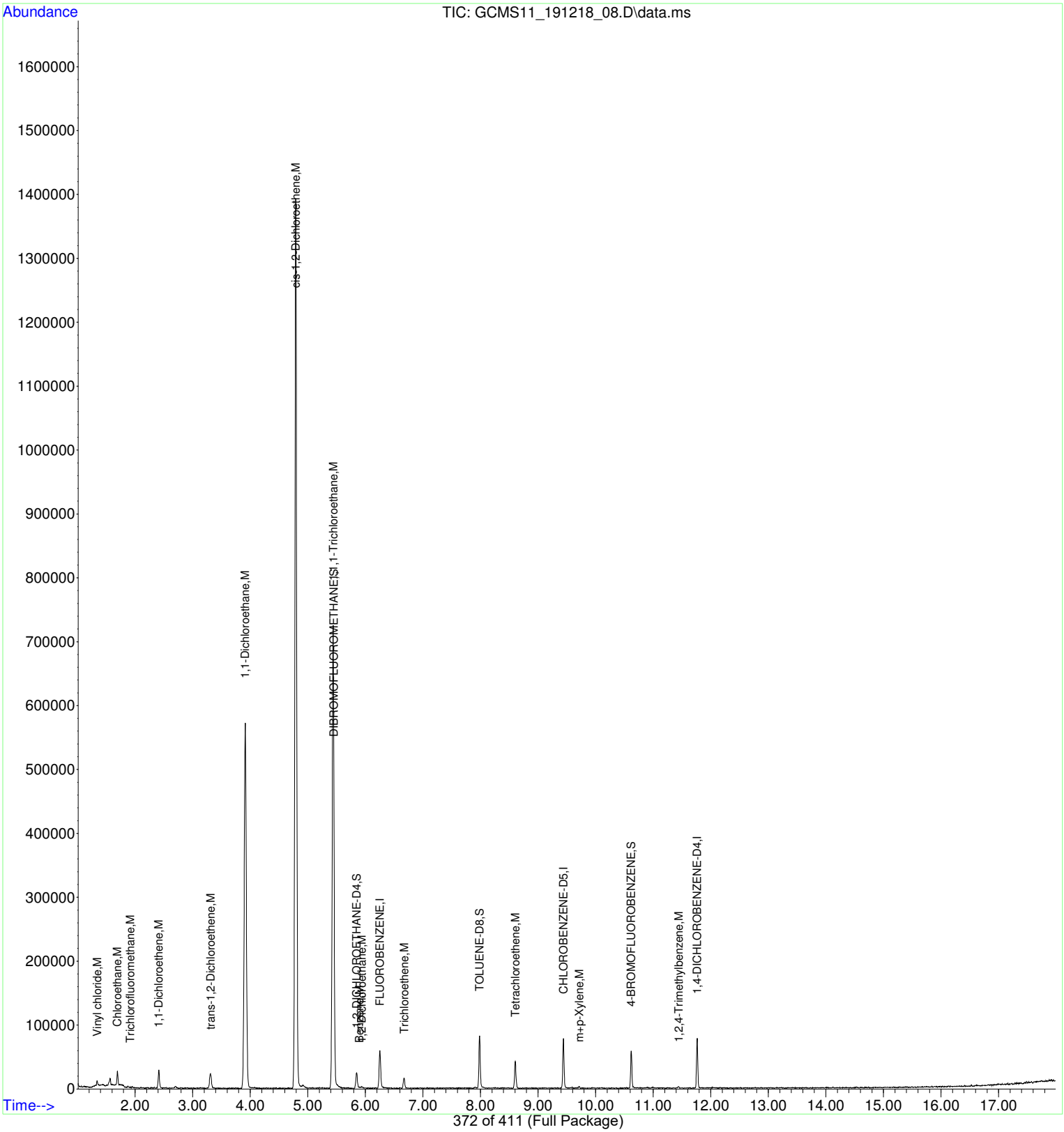
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.25	96	53618	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	21542	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	20054	50.00	ng		# 0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.45	113	14412	51.18	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	16347	48.71	ng		0.00
37) TOLUENE-D8	7.98	98	53951	51.16	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	16217	41.52	ng		0.00
Target Compounds							Qvalue
4) Vinyl chloride	1.34	62	3726	12.91	ng		93
6) Chloroethane	1.69	64	12585	59.63	ng		97
7) Trichlorofluoromethane	1.91	101	594	1.60	ng		97
9) 1,1-Dichloroethene	2.41	96	9590	34.41	ng		94
14) trans-1,2-Dichloroethene	3.31	96	10830	34.52	ng		97
16) 1,1-Dichloroethane	3.91	63	678834	1310.31	ng		99
18) cis-1,2-Dichloroethene	4.79	96	713822	2108.18	ng		92
23) 1,1,1-Trichloroethane	5.44	97	501855	1068.19	ng		99
27) Benzene	5.90	78	1497	1.15	ng		94
28) 1,2-Dichloroethane	5.94	62	1820	4.17	ng		85
29) Trichloroethene	6.68	95	5061	16.50	ng		94
42) Tetrachloroethene	8.60	164	9908	36.54	ng		94
50) m+p-Xylene	9.72	106	811	1.34	ng	#	71
65) 1,2,4-Trimethylbenzene	11.44	105	1308	1.21	ng		97

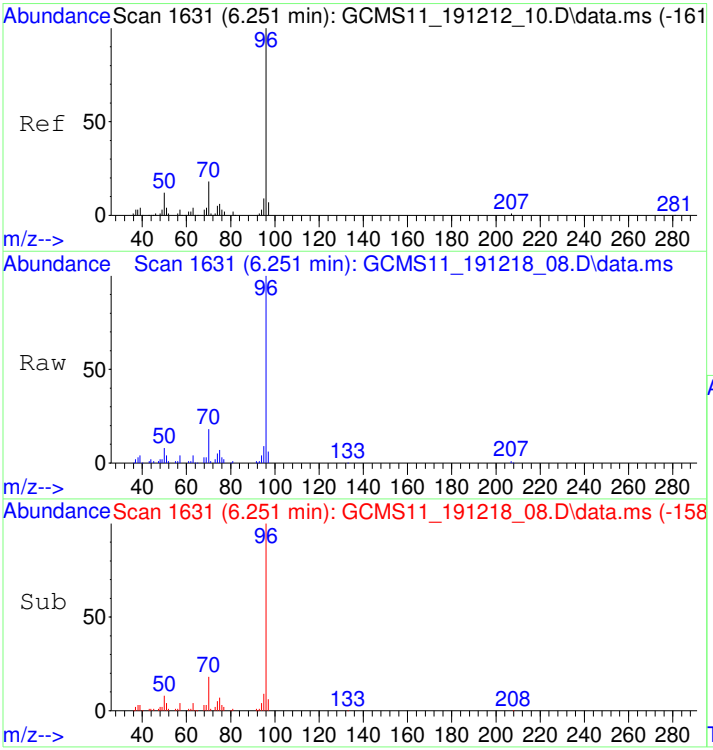
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Over Calibration. Reported
in 1912013-05. - KO
12.23.19

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_08.D
Acq On : 18 Dec 2019 8:41 pm
Operator : ko
Sample : 1912013-05RE1
Misc : 2X ATOMX, 19L1101
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 19 08:24:59 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

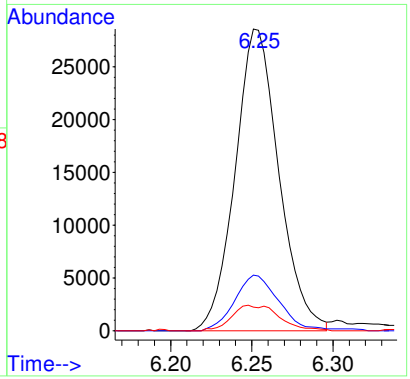


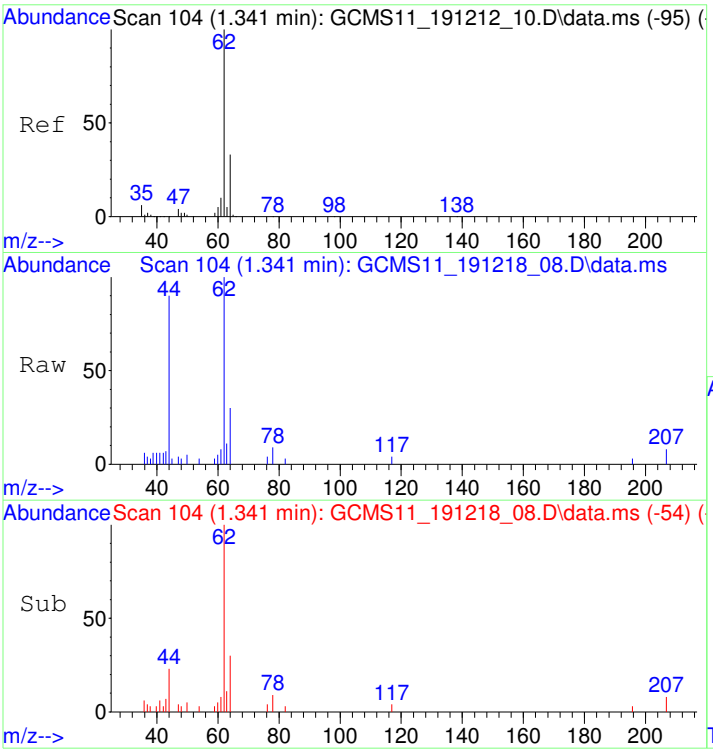


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1631
Delta R.T. -0.006 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion: 96 Resp: 53618

Ion	Ratio	Lower	Upper
96	100		
70	18.9	0.0	48.3
50	9.3	0.0	39.5

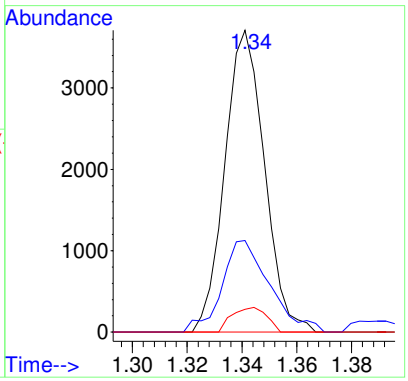


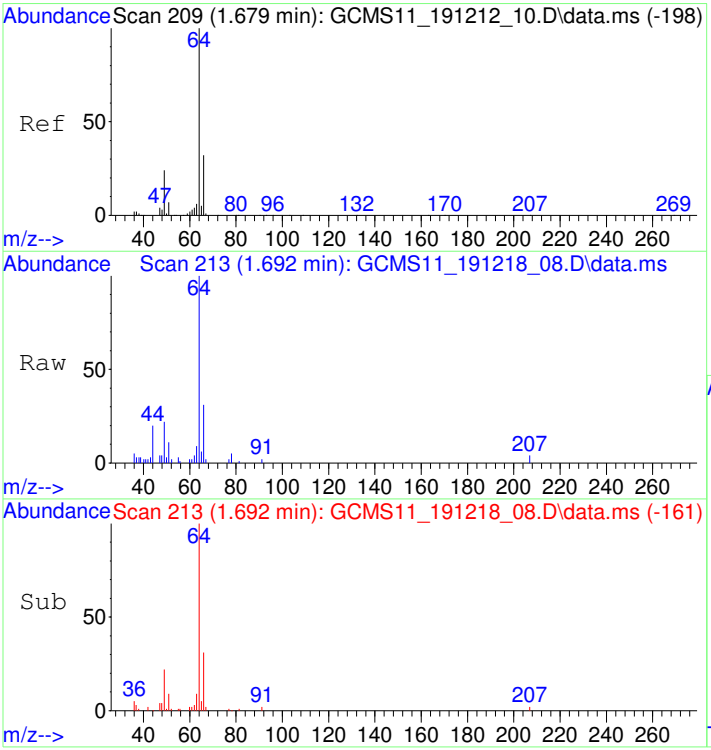


#4
Vinyl chloride
Concen: 12.91 ng
RT: 1.34 min Scan# 104
Delta R.T. -0.010 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion: 62 Resp: 3726

Ion	Ratio	Lower	Upper
62	100		
64	36.5	2.7	62.7
61	7.2	0.0	39.4

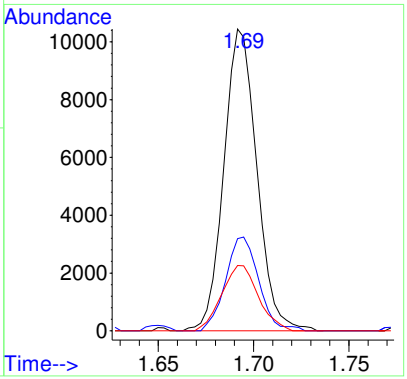


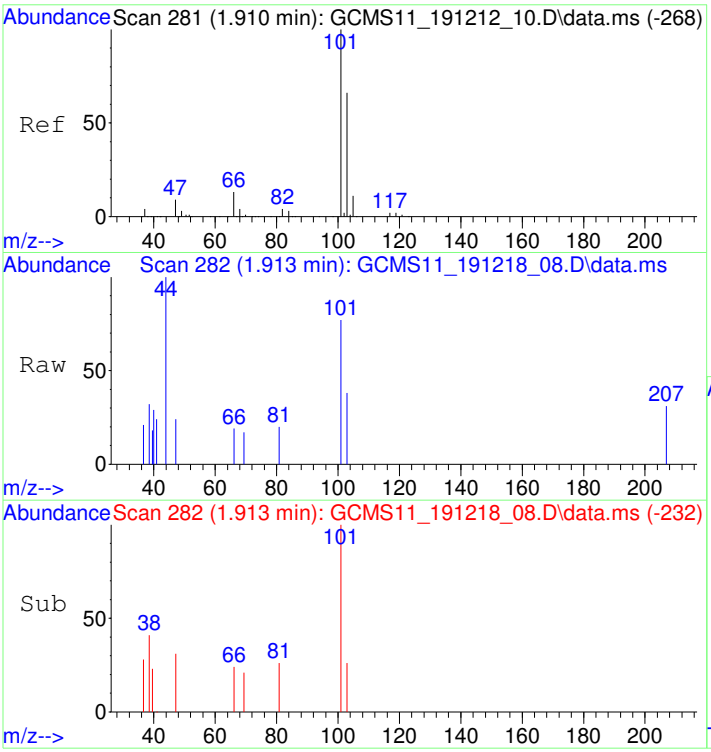


#6
Chloroethane
Concen: 59.63 ng
RT: 1.69 min Scan# 213
Delta R.T. -0.003 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion: 64 Resp: 12585

Ion	Ratio	Lower	Upper
64	100		
66	31.2	3.3	63.3
49	24.0	0.0	53.3

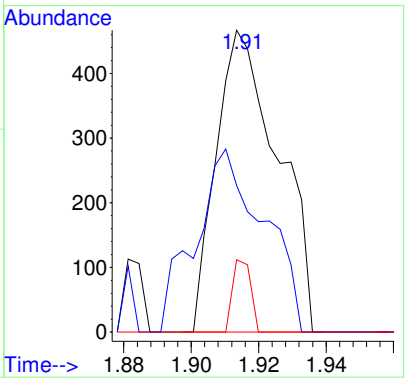


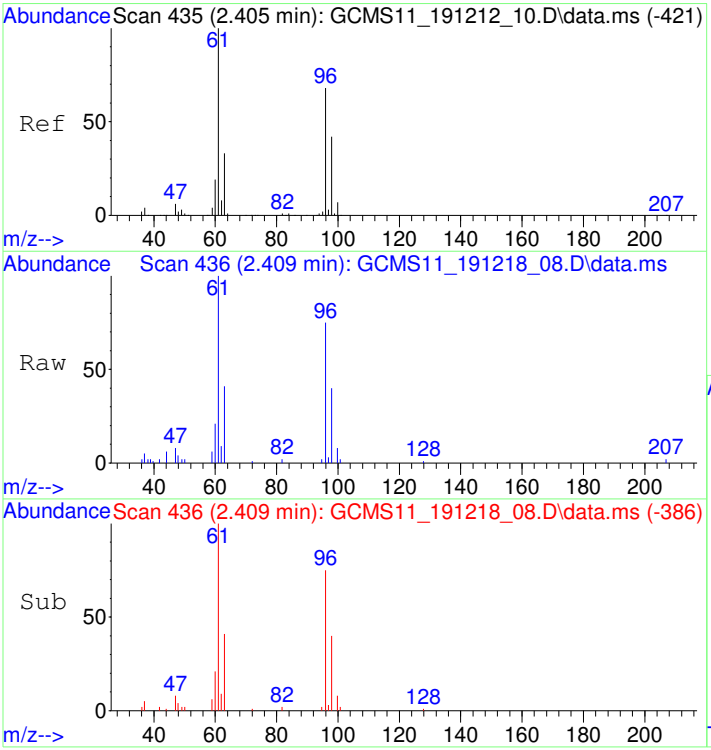


#7
Trichlorofluoromethane
Concen: 1.60 ng
RT: 1.91 min Scan# 282
Delta R.T. -0.010 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion:101 Resp: 594

Ion	Ratio	Lower	Upper
101	100		
103	67.3	38.4	98.4
66	7.1	0.0	43.0

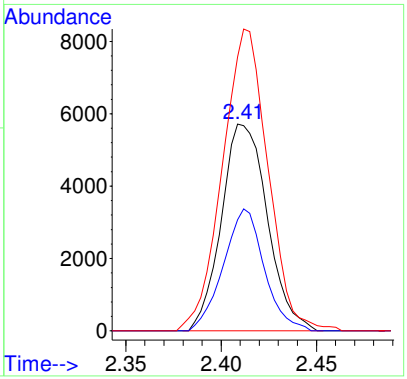


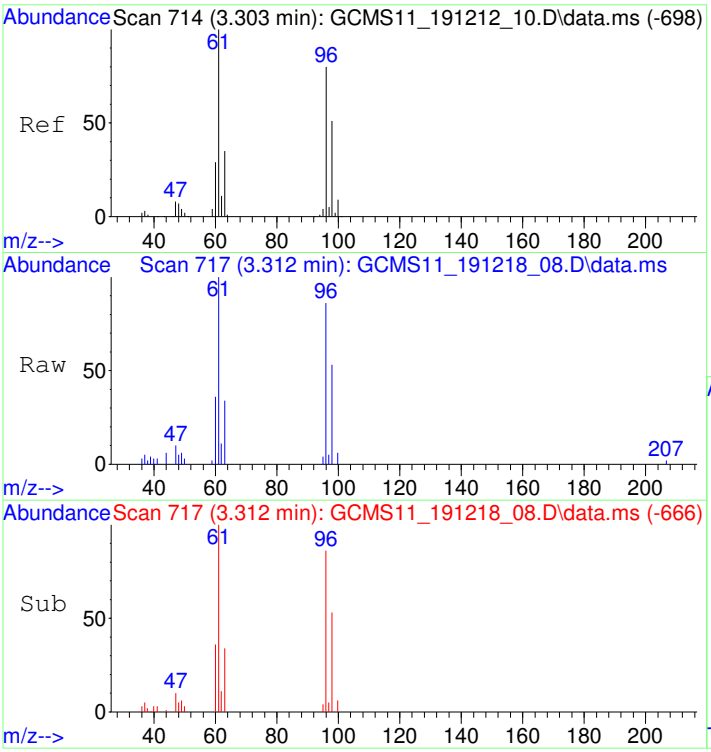


#9
1,1-Dichloroethene
Concen: 34.41 ng
RT: 2.41 min Scan# 436
Delta R.T. -0.010 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion: 96 Resp: 9590

Ion	Ratio	Lower	Upper
96	100		
63	52.4	20.7	80.7
61	144.6	123.9	183.9

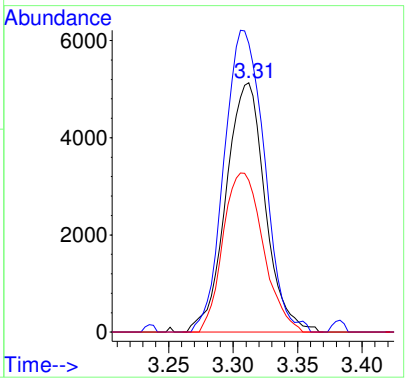


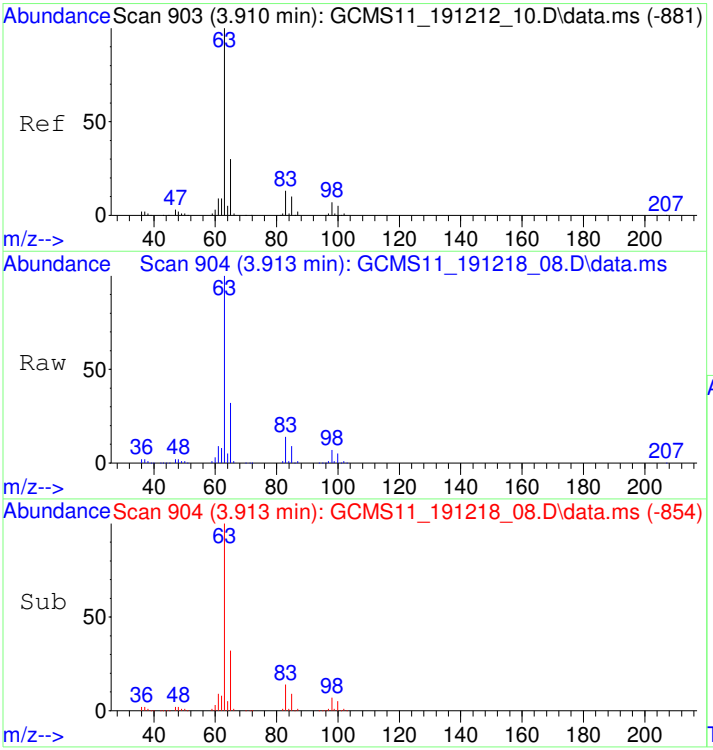


#14
trans-1,2-Dichloroethene
Concen: 34.52 ng
RT: 3.31 min Scan# 717
Delta R.T. -0.006 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion: 96 Resp: 10830

Ion	Ratio	Lower	Upper
96	100		
61	124.2	99.6	159.6
98	65.4	35.3	95.3

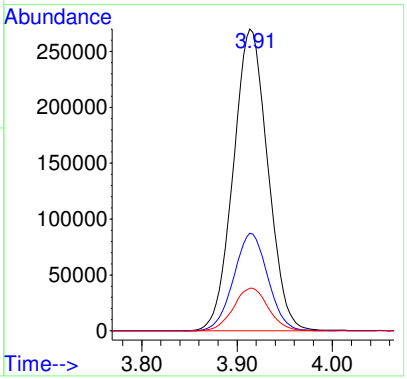


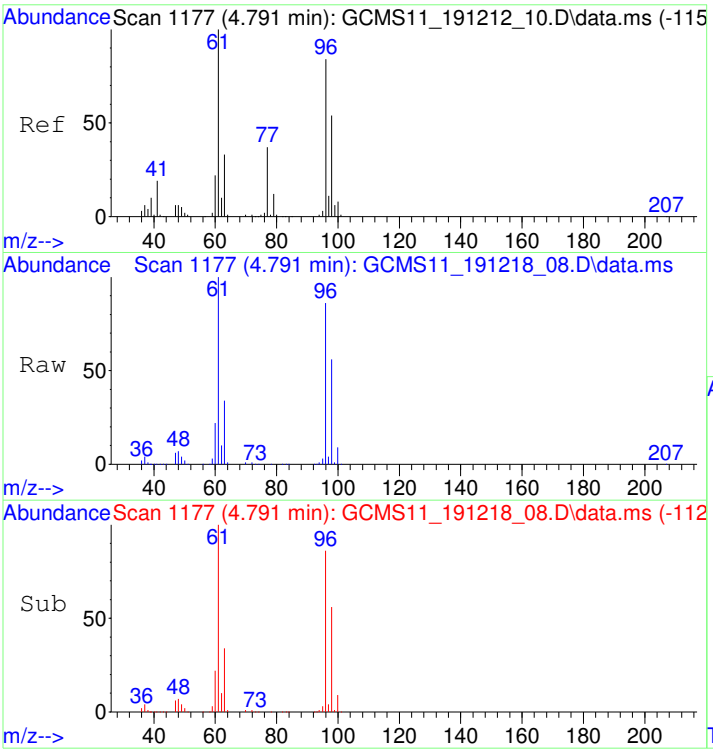


#16
1,1-Dichloroethane
Concen: 1310.31 ng
RT: 3.91 min Scan# 904
Delta R.T. -0.010 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion: 63 Resp: 678834

Ion	Ratio	Lower	Upper
63	100		
65	32.1	2.8	62.8
83	14.4	0.0	44.3

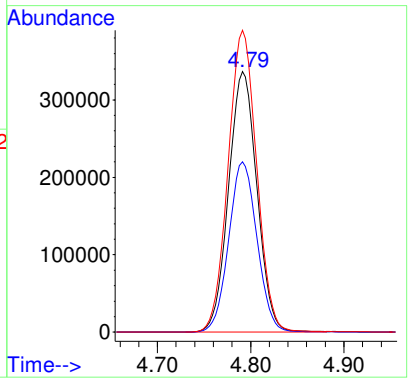


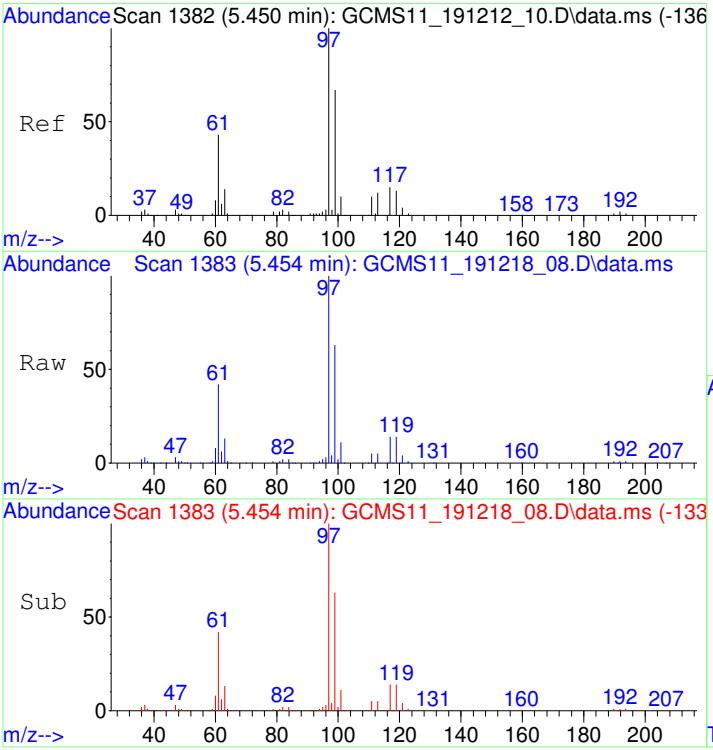


#18
cis-1,2-Dichloroethene
Concen: 2108.18 ng
RT: 4.79 min Scan# 1177
Delta R.T. -0.010 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion: 96 Resp: 713822

Ion	Ratio	Lower	Upper
96	100		
98	65.1	30.6	90.6
61	116.4	96.6	156.6

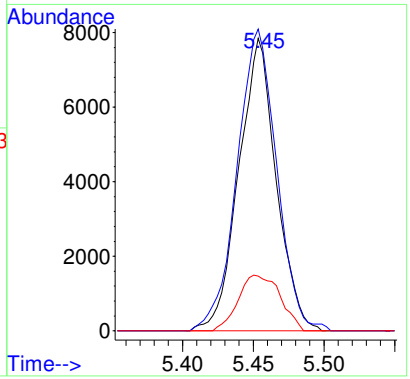


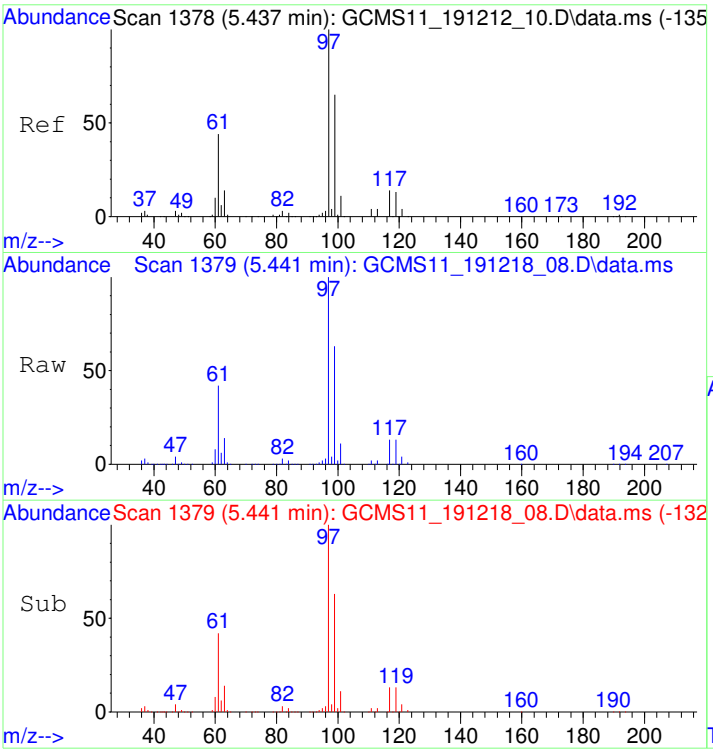


#22
DIBROMOFLUOROMETHANE
Concen: 51.18 ng
RT: 5.45 min Scan# 1383
Delta R.T. -0.006 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion:113 Resp: 14412

Ion	Ratio	Lower	Upper
113	100		
111	109.1	75.2	135.2
192	21.4	0.0	52.1

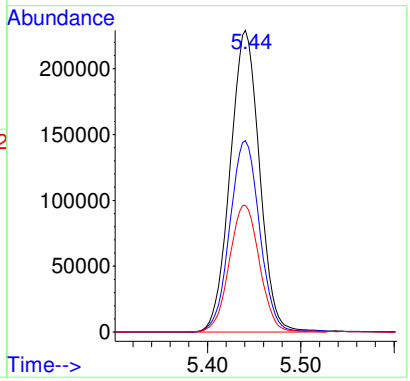


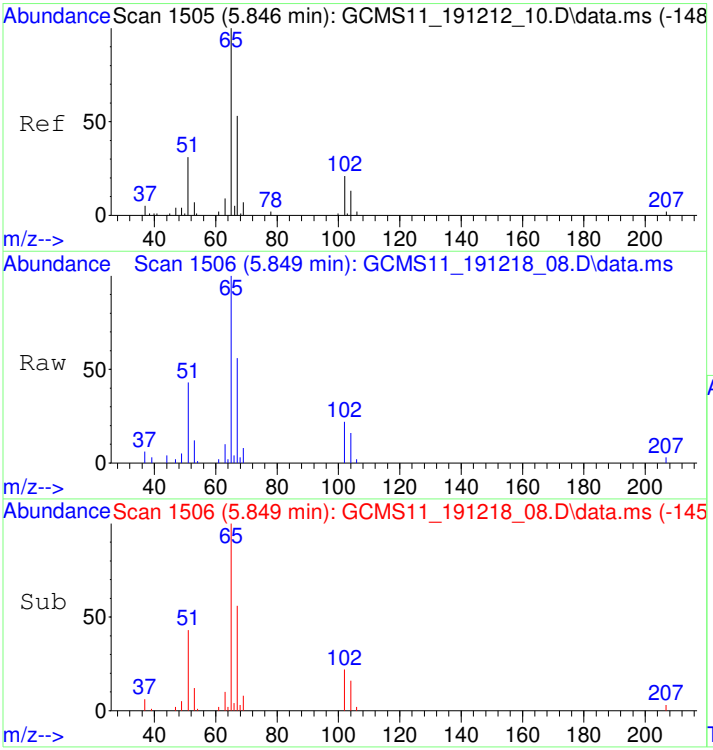


#23
1,1,1-Trichloroethane
Concen: 1068.19 ng
RT: 5.44 min Scan# 1379
Delta R.T. -0.003 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion: 97 Resp: 501855

Ion	Ratio	Lower	Upper
97	100		
99	64.3	32.7	92.7
61	43.1	13.1	73.1

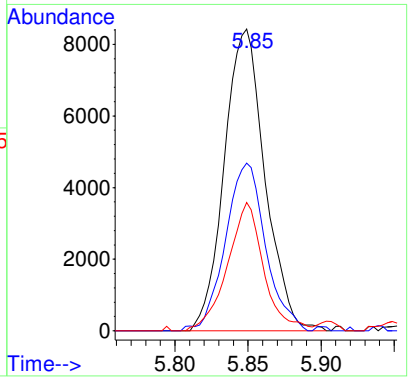


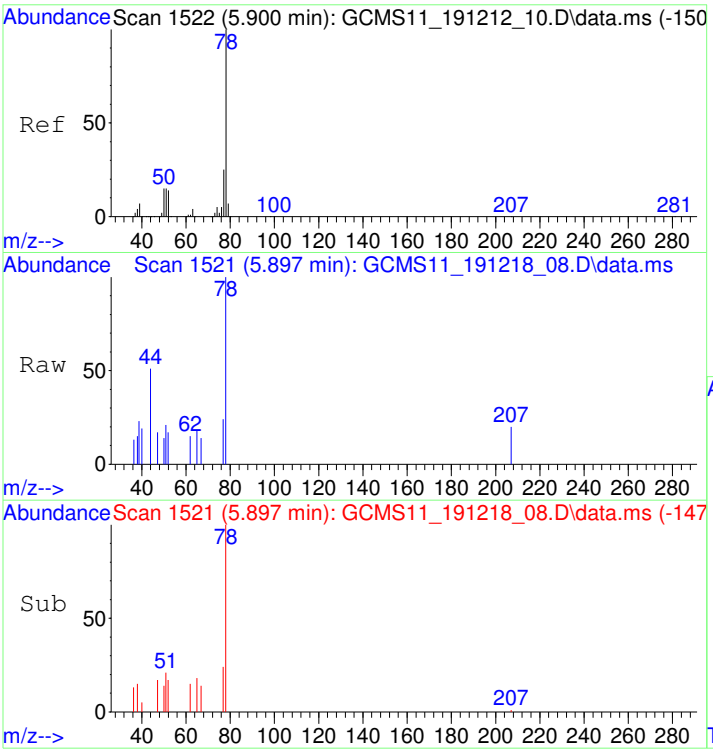


#26
1,2-DICHLOROETHANE-D4
Concen: 48.71 ng
RT: 5.85 min Scan# 1506
Delta R.T. -0.003 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion: 65 Resp: 16347

Ion	Ratio	Lower	Upper
65	100		
67	54.8	15.4	75.4
51	37.8	2.7	62.7

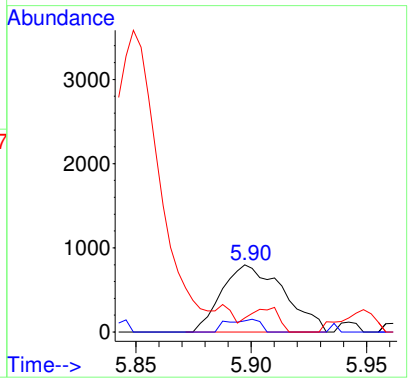


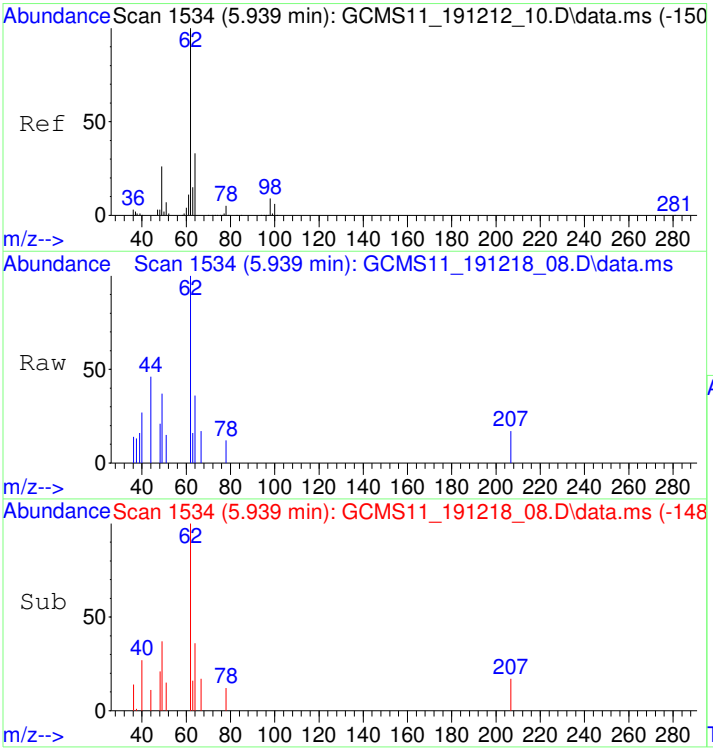


#27
Benzene
Concen: 1.15 ng
RT: 5.90 min Scan# 1521
Delta R.T. -0.010 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion: 78 Resp: 1497

Ion	Ratio	Lower	Upper
78	100		
52	10.0	0.0	44.0
51	17.1	0.0	48.4

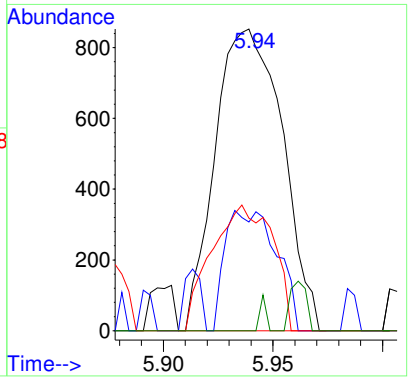


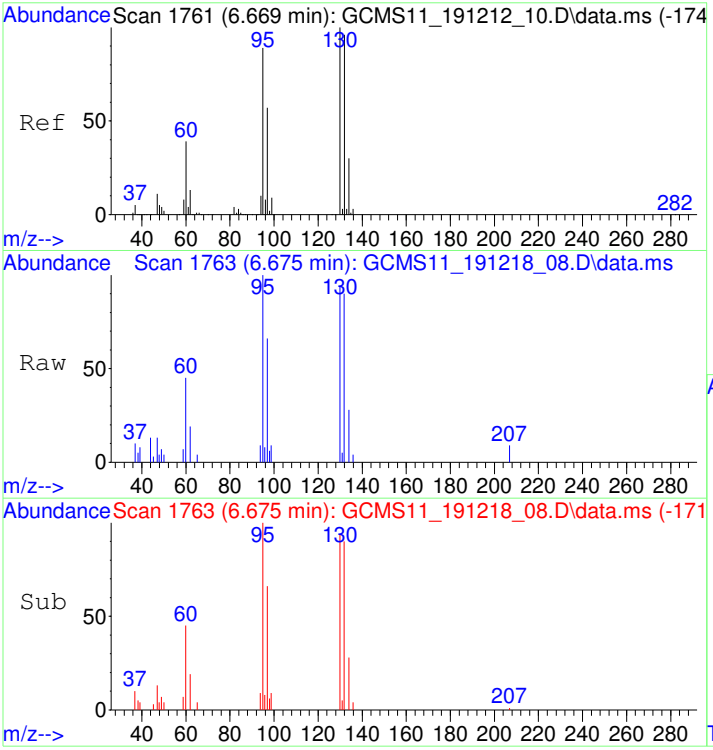


#28
1,2-Dichloroethane
Concen: 4.17 ng
RT: 5.94 min Scan# 1534
Delta R.T. -0.003 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion: 62 Resp: 1820

Ion	Ratio	Lower	Upper
62	100		
64	30.6	3.2	63.2
49	38.0	0.0	55.4
98	1.0	0.0	39.6

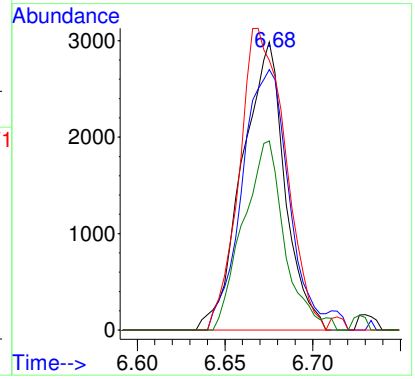


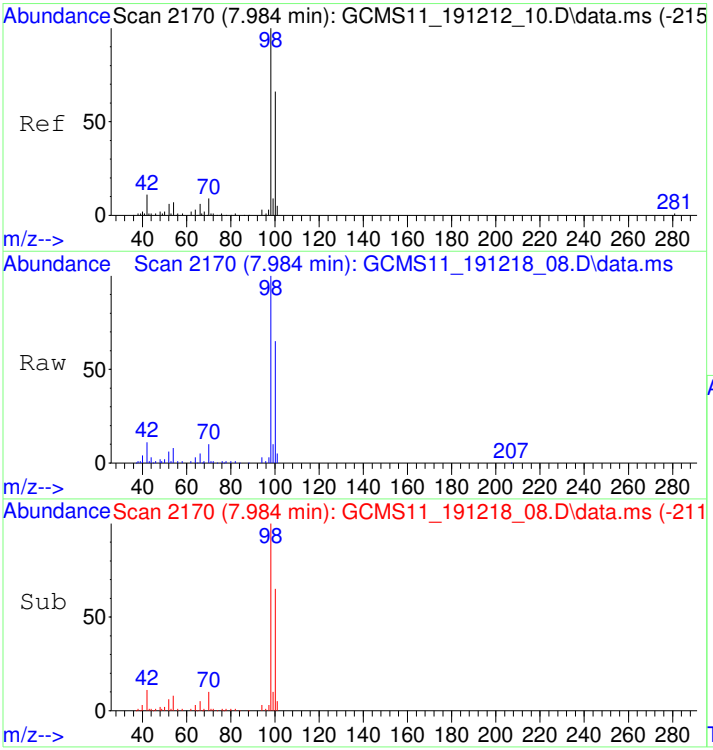


#29
Trichloroethene
Concen: 16.50 ng
RT: 6.68 min Scan# 1763
Delta R.T. 0.000 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion: 95 Resp: 5061

Ion	Ratio	Lower	Upper
95	100		
132	98.5	78.7	138.7
130	113.0	86.1	146.1
97	63.6	37.2	97.2

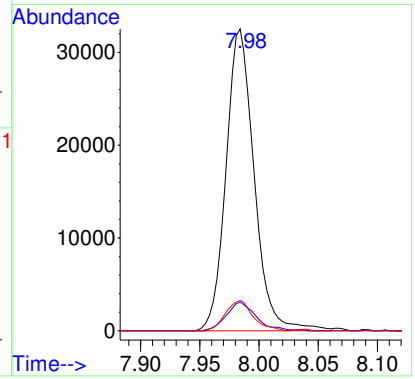


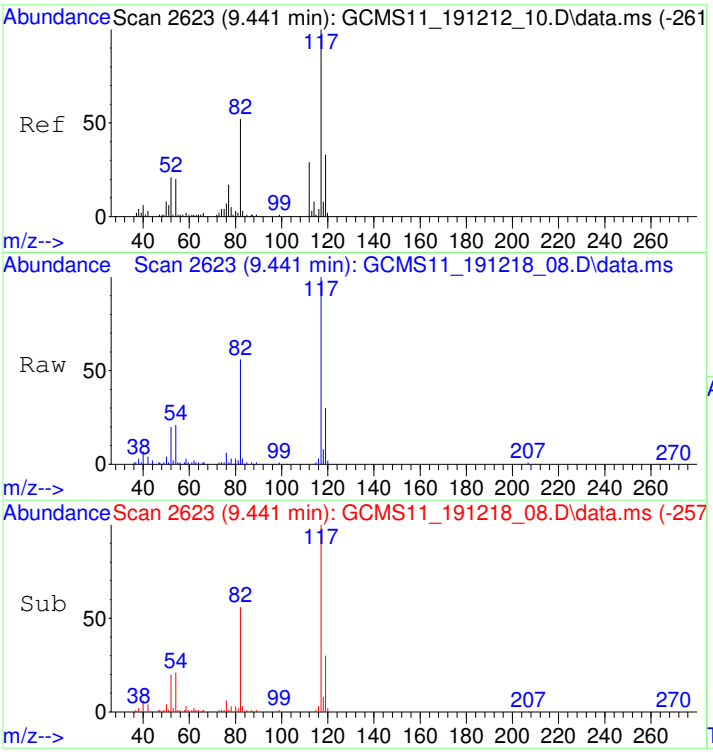


#37
TOLUENE-D8
Concen: 51.16 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion: 98 Resp: 53951

Ion	Ratio	Lower	Upper
98	100		
99	10.1	0.0	39.8
70	9.9	0.0	40.7

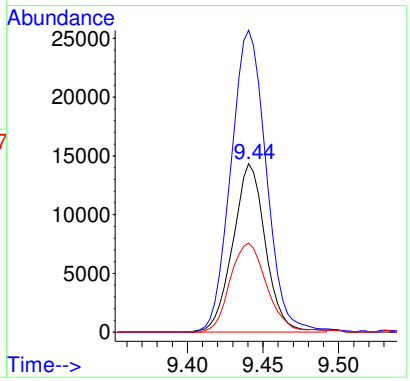


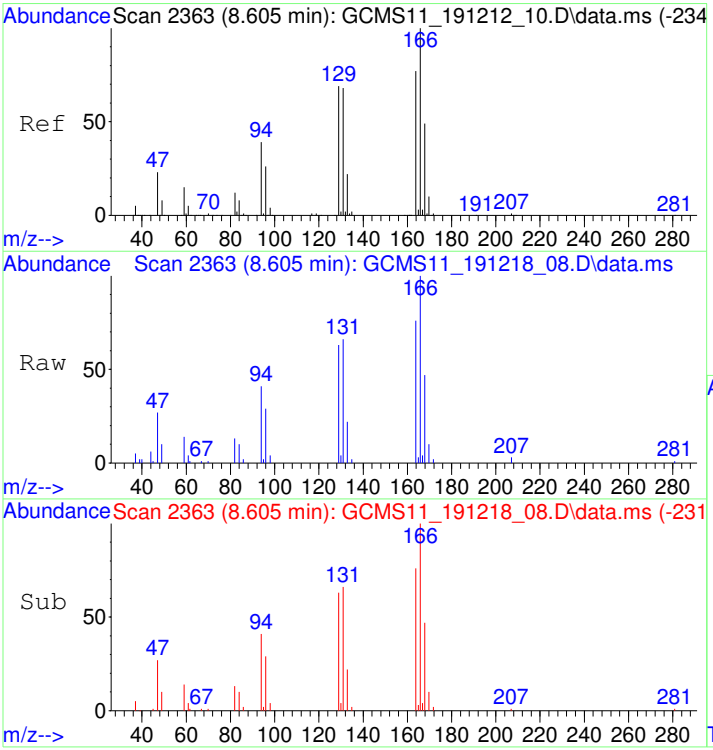


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.001 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion: 82 Resp: 21542

Ion	Ratio	Lower	Upper
82	100		
117	193.9	160.7	220.7
119	58.6	33.5	93.5

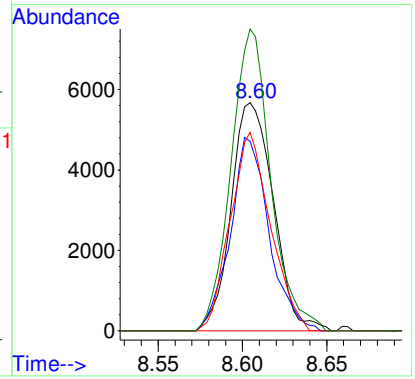


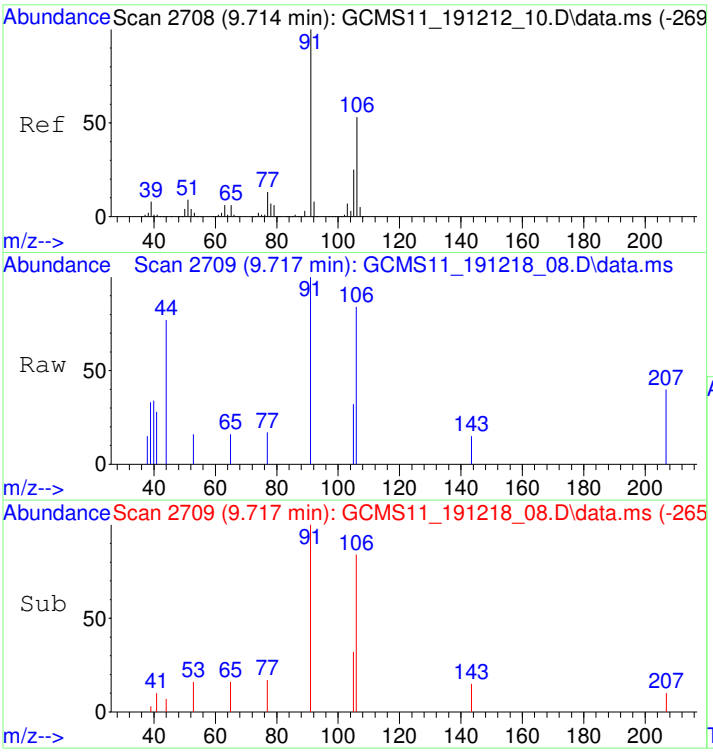


#42
Tetrachloroethene
Concen: 36.54 ng
RT: 8.60 min Scan# 2363
Delta R.T. 0.001 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion:164 Resp: 9908

Ion	Ratio	Lower	Upper
164	100		
129	77.6	57.5	117.5
131	82.7	55.8	115.8
166	124.2	99.4	159.4

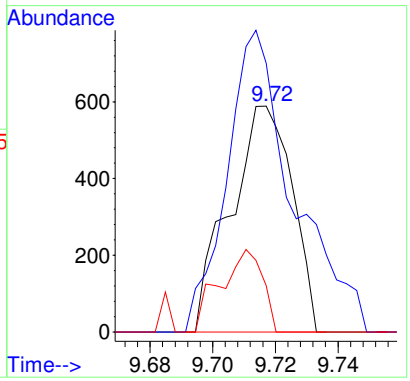


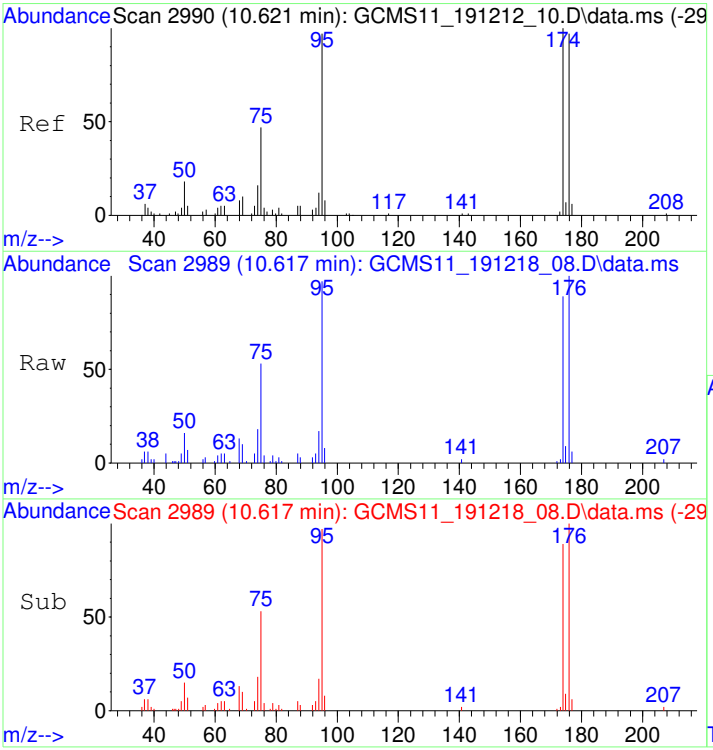


#50
m+p-Xylene
Concen: 1.34 ng
RT: 9.72 min Scan# 2709
Delta R.T. 0.003 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion:106 Resp: 811

Ion	Ratio	Lower	Upper
106	100		
91	142.8	160.8	220.8#
77	25.0	0.0	54.6

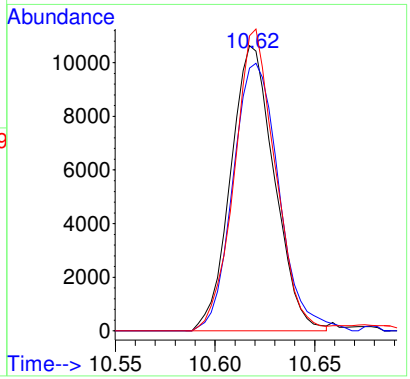


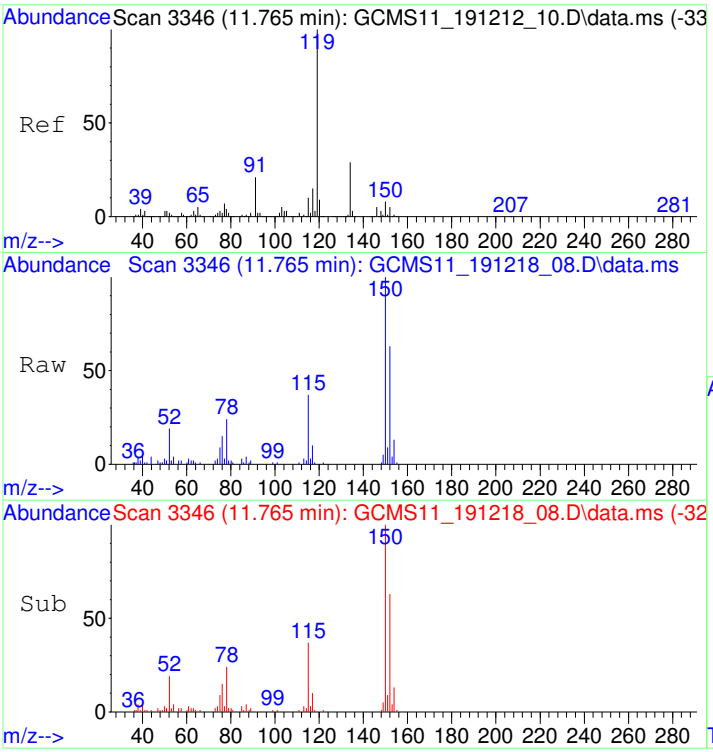


#55
4-BROMOFLUOROBENZENE
Concen: 41.52 ng
RT: 10.62 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion: 95 Resp: 16217

Ion	Ratio	Lower	Upper
95	100		
174	98.6	68.5	128.5
176	99.2	66.8	126.8

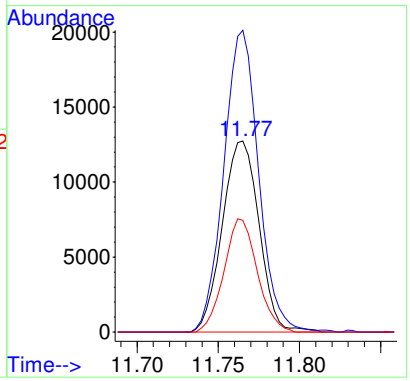


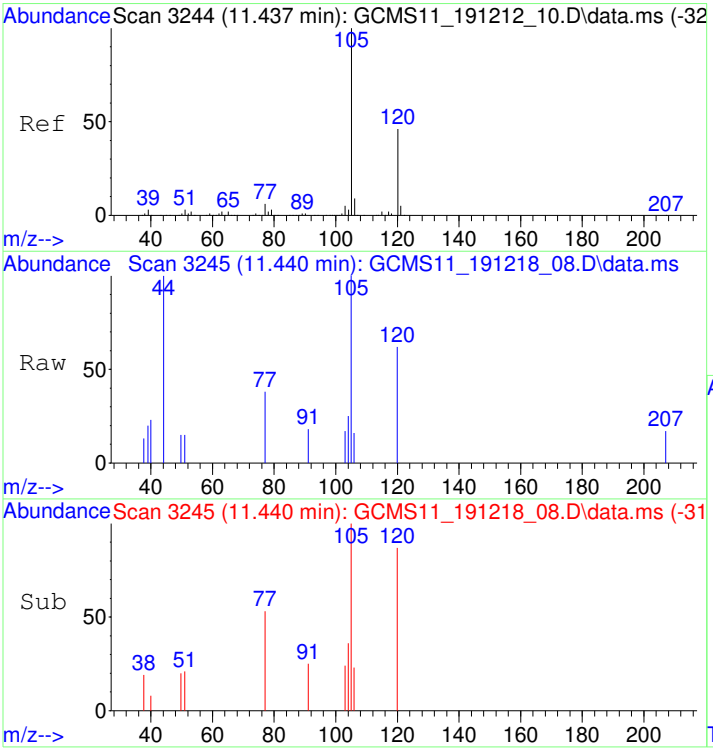


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion:152 Resp: 20054

Ion	Ratio	Lower	Upper
152	100		
150	149.5	162.5	222.5#
115	53.6	82.3	142.3#

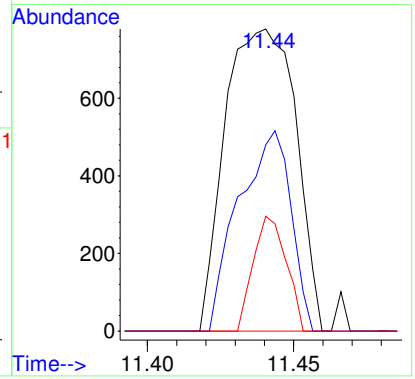




#65
1,2,4-Trimethylbenzene
Concen: 1.21 ng
RT: 11.44 min Scan# 3245
Delta R.T. 0.003 min
Lab File: GCMS11_191218_08.D
Acq: 18 Dec 2019 8:41 pm

Tgt Ion:105 Resp: 1308

Ion	Ratio	Lower	Upper
105	100		
120	48.9	18.6	78.6
77	17.7	0.0	41.4



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_35.D
Acq On : 17 Dec 2019 5:55 am
Operator : ko
Sample : 1912013-06
Misc : LIMS 19L1101, 50X ATOMX DILUTION
ALS Vial : 28 Sample Multiplier: 1

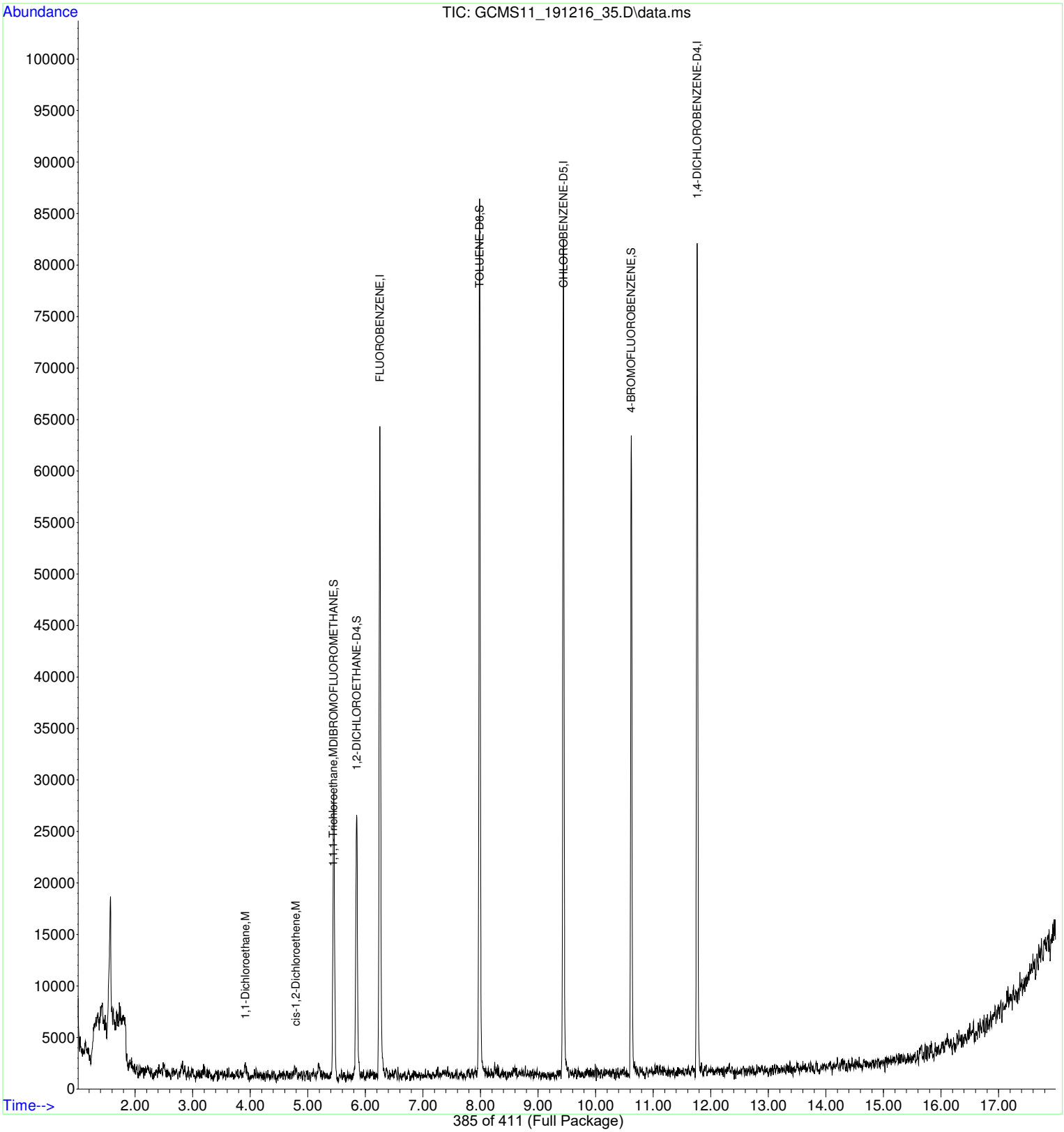
Quant Time: Dec 17 15:02:06 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

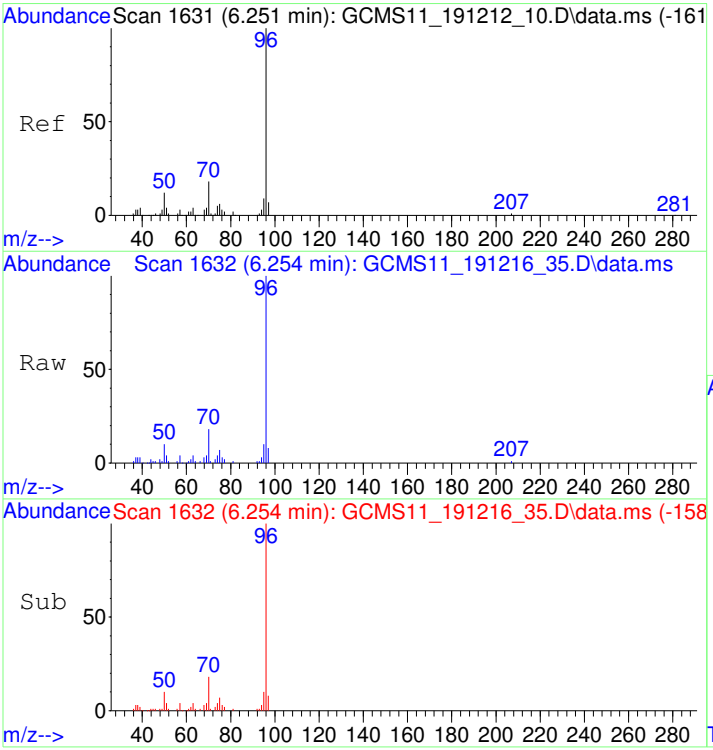
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.25	96	55576	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	22466	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	21279	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.45	113	15715	53.84	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	18112	52.07	ng	0.00
37) TOLUENE-D8	7.98	98	56112	51.34	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	18346	45.04	ng	0.00
Target Compounds						Qvalue
16) 1,1-Dichloroethane	3.92	63	1809m	3.37	ng	
18) cis-1,2-Dichloroethene	4.79	96	385	1.10	ng	# 60
23) 1,1,1-Trichloroethane	5.44	97	1226	2.52	ng	93

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

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_35.D
Acq On : 17 Dec 2019 5:55 am
Operator : ko
Sample : 1912013-06
Misc : LIMS 19L1101, 50X ATOMX DILUTION
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 17 15:02:06 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

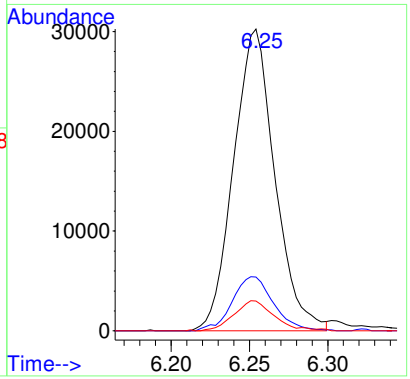


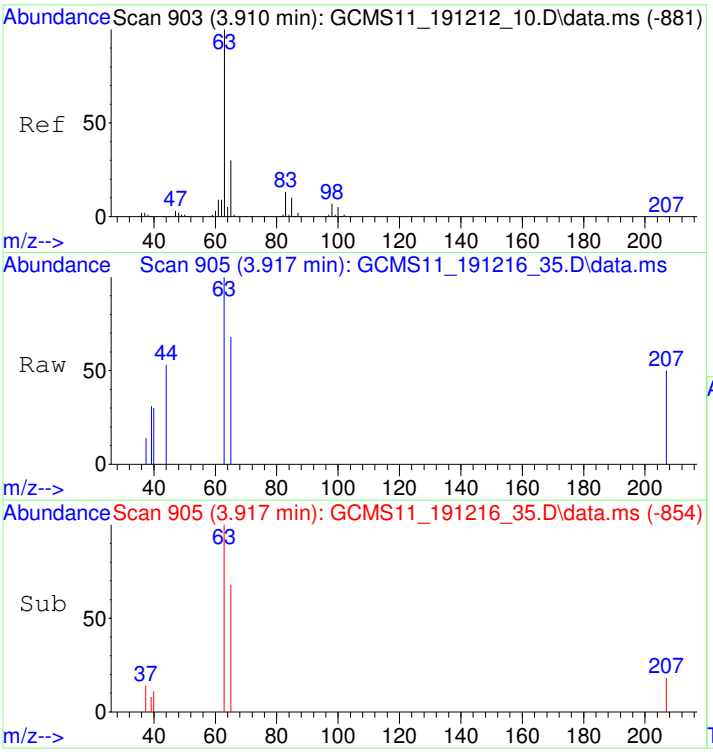


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191216_35.D
Acq: 17 Dec 2019 5:55 am

Tgt Ion: 96 Resp: 55576

Ion	Ratio	Lower	Upper
96	100		
70	18.0	0.0	48.3
50	9.7	0.0	39.5

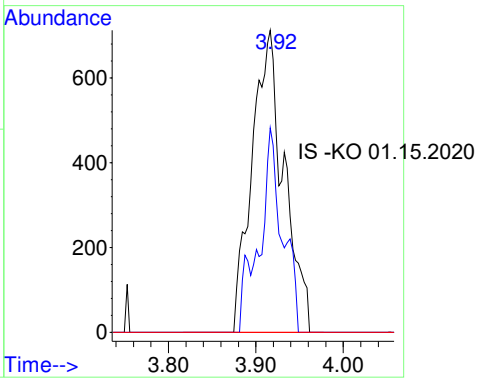


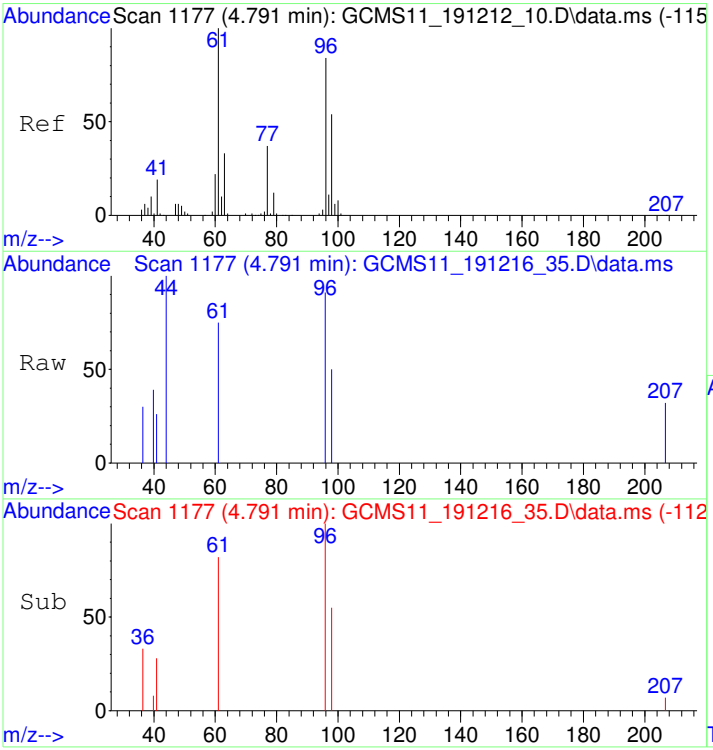


#16
1,1-Dichloroethane
Concen: 3.37 ng m
RT: 3.92 min Scan# 905
Delta R.T. -0.006 min
Lab File: GCMS11_191216_35.D
Acq: 17 Dec 2019 5:55 am

Tgt Ion: 63 Resp: 1809

Ion	Ratio	Lower	Upper
63	100		
65	22.6	2.8	62.8
83	0.0	0.0	44.3

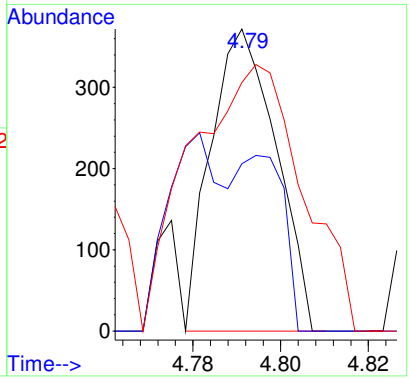


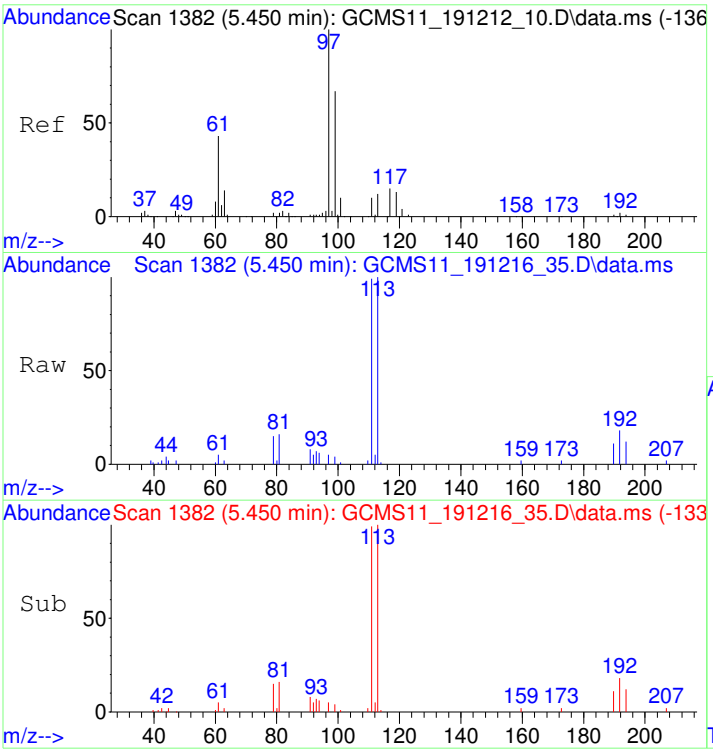


#18
cis-1,2-Dichloroethene
Concen: 1.10 ng
RT: 4.79 min Scan# 1177
Delta R.T. -0.010 min
Lab File: GCMS11_191216_35.D
Acq: 17 Dec 2019 5:55 am

Tgt Ion: 96 Resp: 385

Ion	Ratio	Lower	Upper
96	100		
98	0.0	30.6	90.6#
61	151.4	96.6	156.6

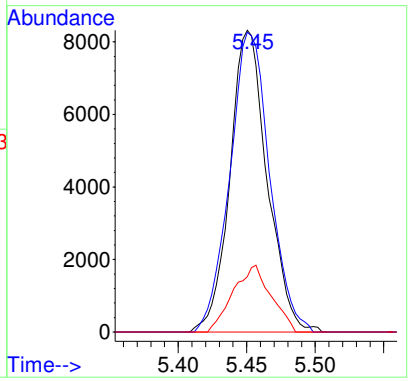


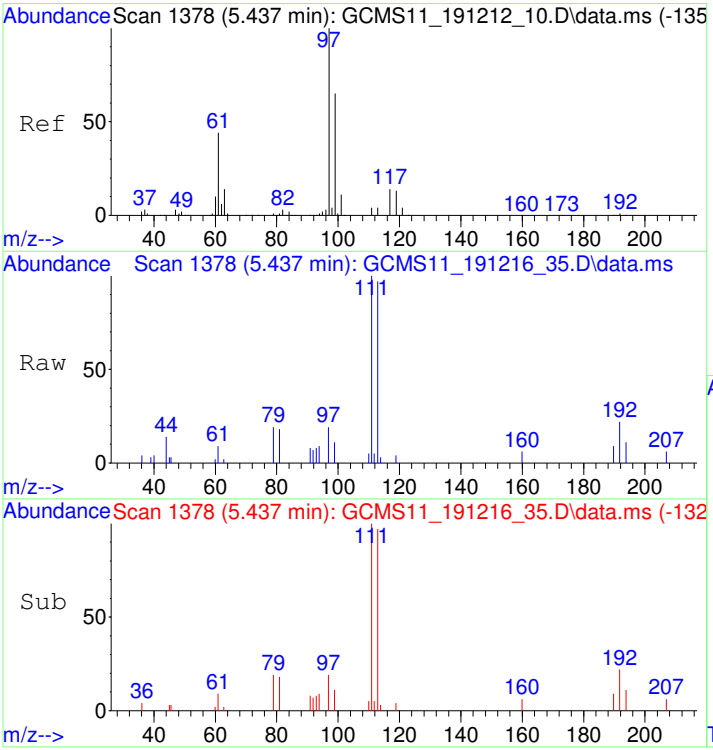


#22
DIBROMOFLUOROMETHANE
Concen: 53.84 ng
RT: 5.45 min Scan# 1382
Delta R.T. -0.010 min
Lab File: GCMS11_191216_35.D
Acq: 17 Dec 2019 5:55 am

Tgt Ion:113 Resp: 15715

Ion	Ratio	Lower	Upper
113	100		
111	106.2	75.2	135.2
192	22.5	0.0	52.1

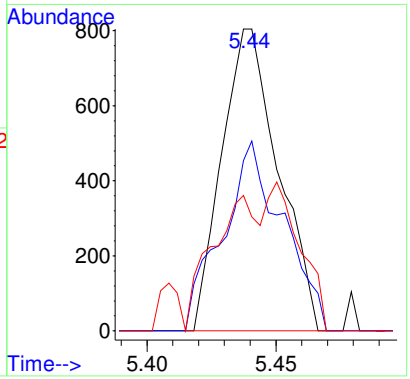


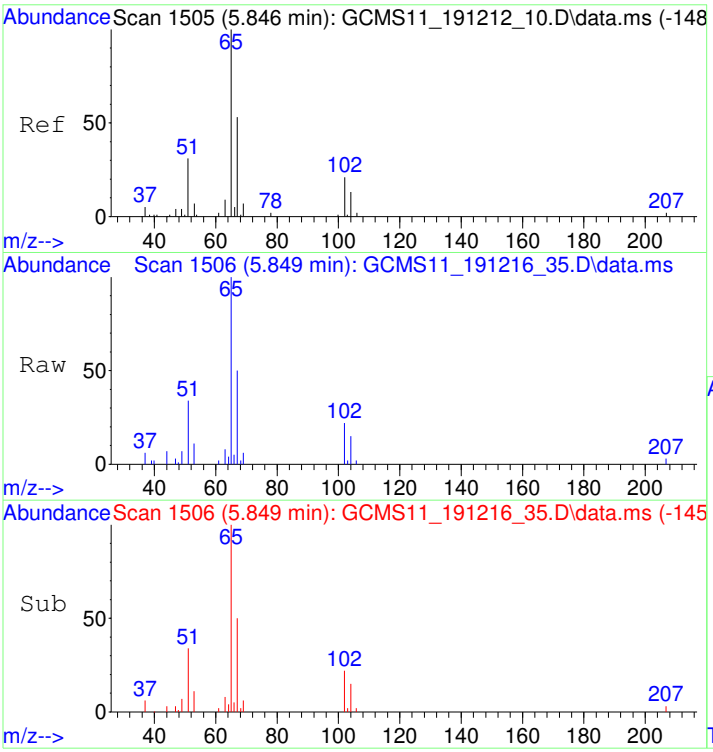


#23
1,1,1-Trichloroethane
Concen: 2.52 ng
RT: 5.44 min Scan# 1378
Delta R.T. -0.006 min
Lab File: GCMS11_191216_35.D
Acq: 17 Dec 2019 5:55 am

Tgt Ion: 97 Resp: 1226

Ion	Ratio	Lower	Upper
97	100		
99	67.3	32.7	92.7
61	37.0	13.1	73.1

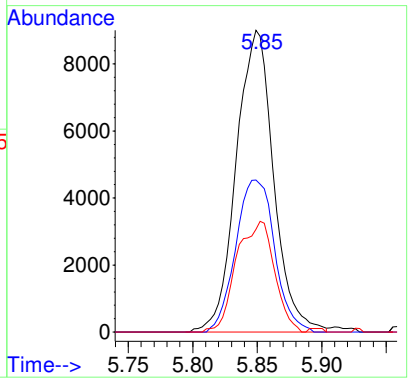


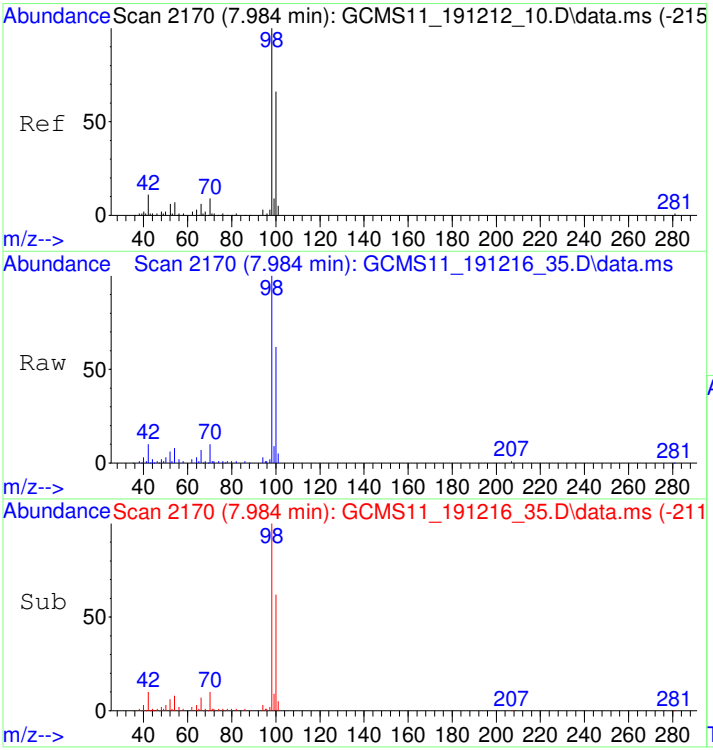


#26
1,2-DICHLOROETHANE-D4
Concen: 52.07 ng
RT: 5.85 min Scan# 1506
Delta R.T. -0.003 min
Lab File: GCMS11_191216_35.D
Acq: 17 Dec 2019 5:55 am

Tgt Ion: 65 Resp: 18112

Ion	Ratio	Lower	Upper
65	100		
67	52.5	15.4	75.4
51	37.3	2.7	62.7

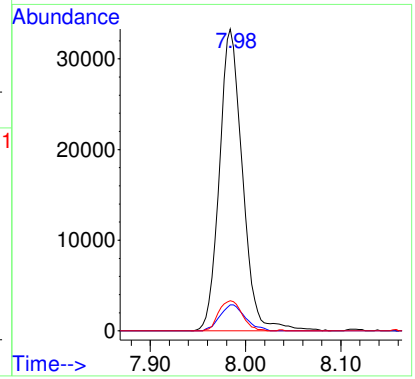


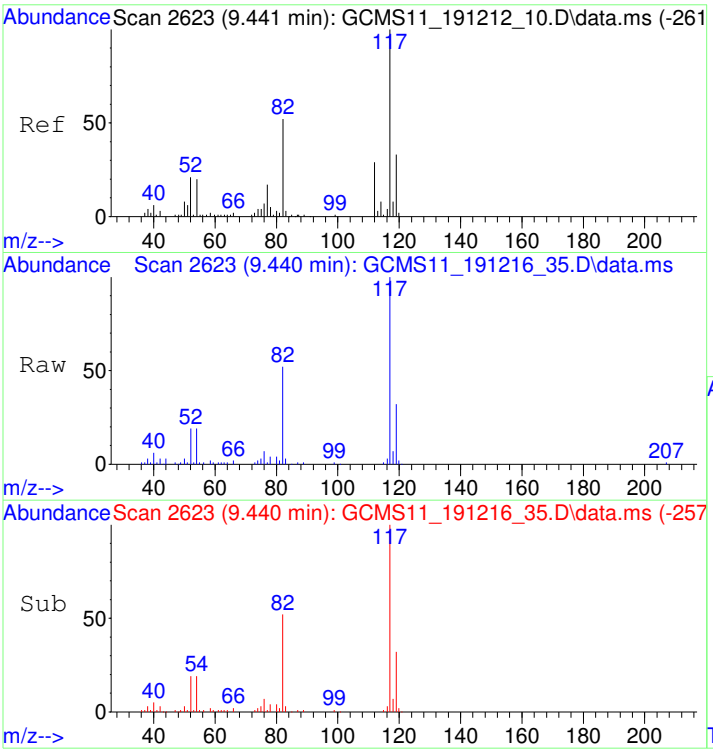


#37
TOLUENE-D8
Concen: 51.34 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191216_35.D
Acq: 17 Dec 2019 5:55 am

Tgt Ion: 98 Resp: 56112

Ion	Ratio	Lower	Upper
98	100		
99	9.5	0.0	39.8
70	10.2	0.0	40.7

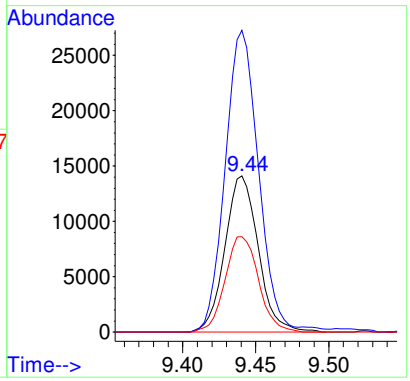


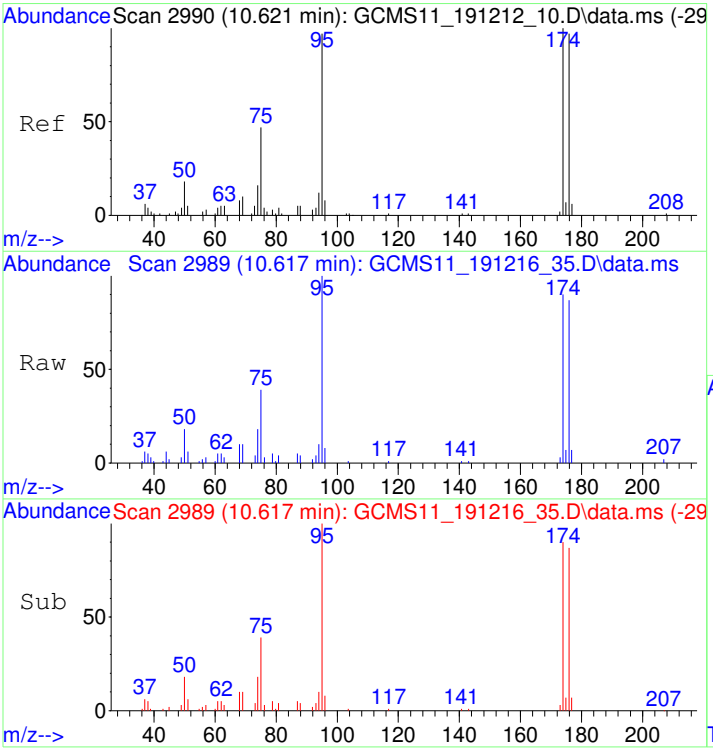


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191216_35.D
Acq: 17 Dec 2019 5:55 am

Tgt Ion: 82 Resp: 22466

Ion	Ratio	Lower	Upper
82	100		
117	193.7	160.7	220.7
119	61.3	33.5	93.5

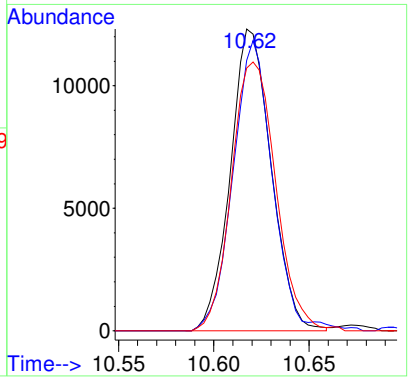


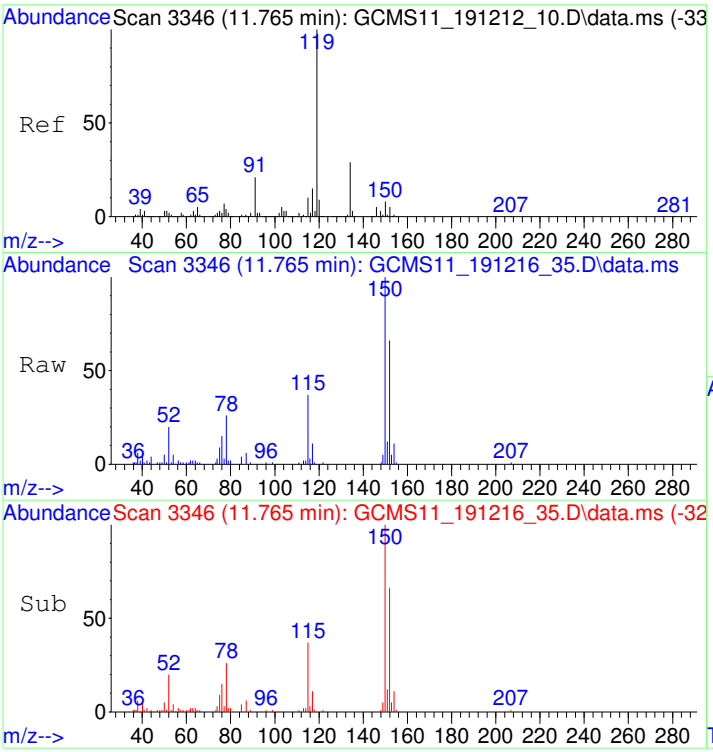


#55
4-BROMOFLUOROBENZENE
Concen: 45.04 ng
RT: 10.62 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191216_35.D
Acq: 17 Dec 2019 5:55 am

Tgt Ion: 95 Resp: 18346

Ion	Ratio	Lower	Upper
95	100		
174	93.3	68.5	128.5
176	96.8	66.8	126.8

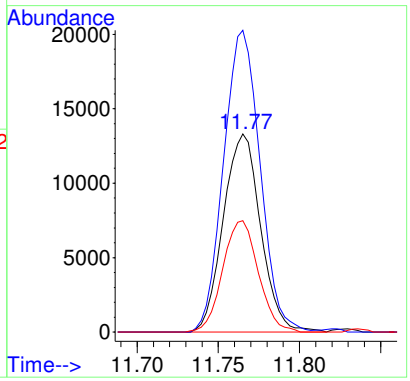




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191216_35.D
Acq: 17 Dec 2019 5:55 am

Tgt Ion:152 Resp: 21279

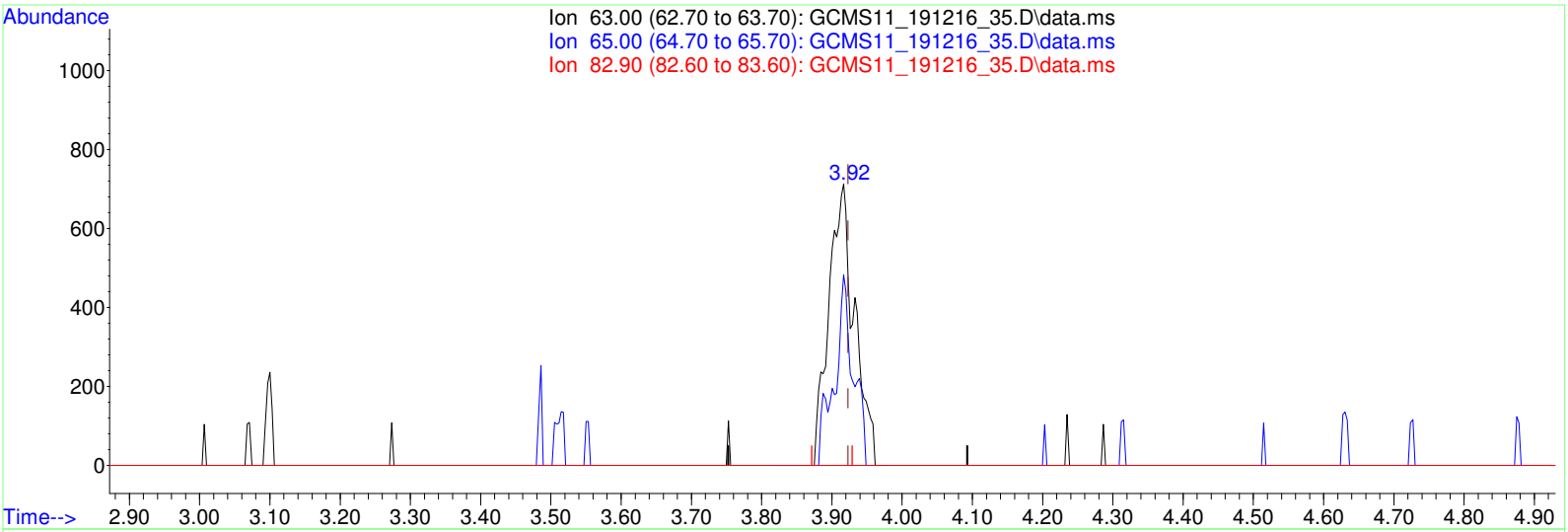
Ion	Ratio	Lower	Upper
152	100		
150	149.0	162.5	222.5#
115	53.6	82.3	142.3#

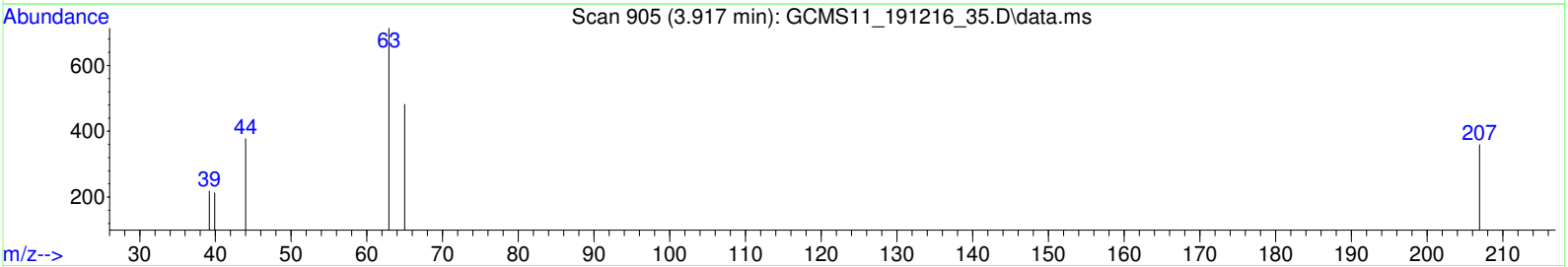


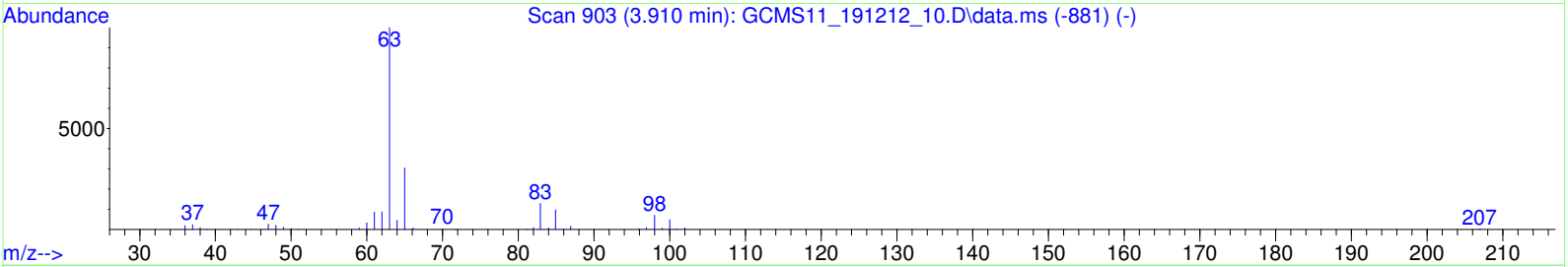
Quantitation Report (Qedit)

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_35.D
Acq On : 17 Dec 2019 5:55 am
Operator : ko
Sample : 1912013-06
Misc : LIMS 19L1101, 50X ATOMX DILUTION
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 17 15:01:51 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration







TIC: GCMS11_191216_35.D\data.ms

(16) 1,1-Dichloroethane (M)

3.917min (-0.006) 3.37 ng m

response 1809

Ion	Exp%	Act%
63.00	100.00	100.00
65.00	32.80	22.55
82.90	14.30	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_07.D
Acq On : 18 Dec 2019 8:13 pm
Operator : ko
Sample : 1912013-06RE1
Misc : LIMS 19L1101
ALS Vial : 6 Sample Multiplier: 1

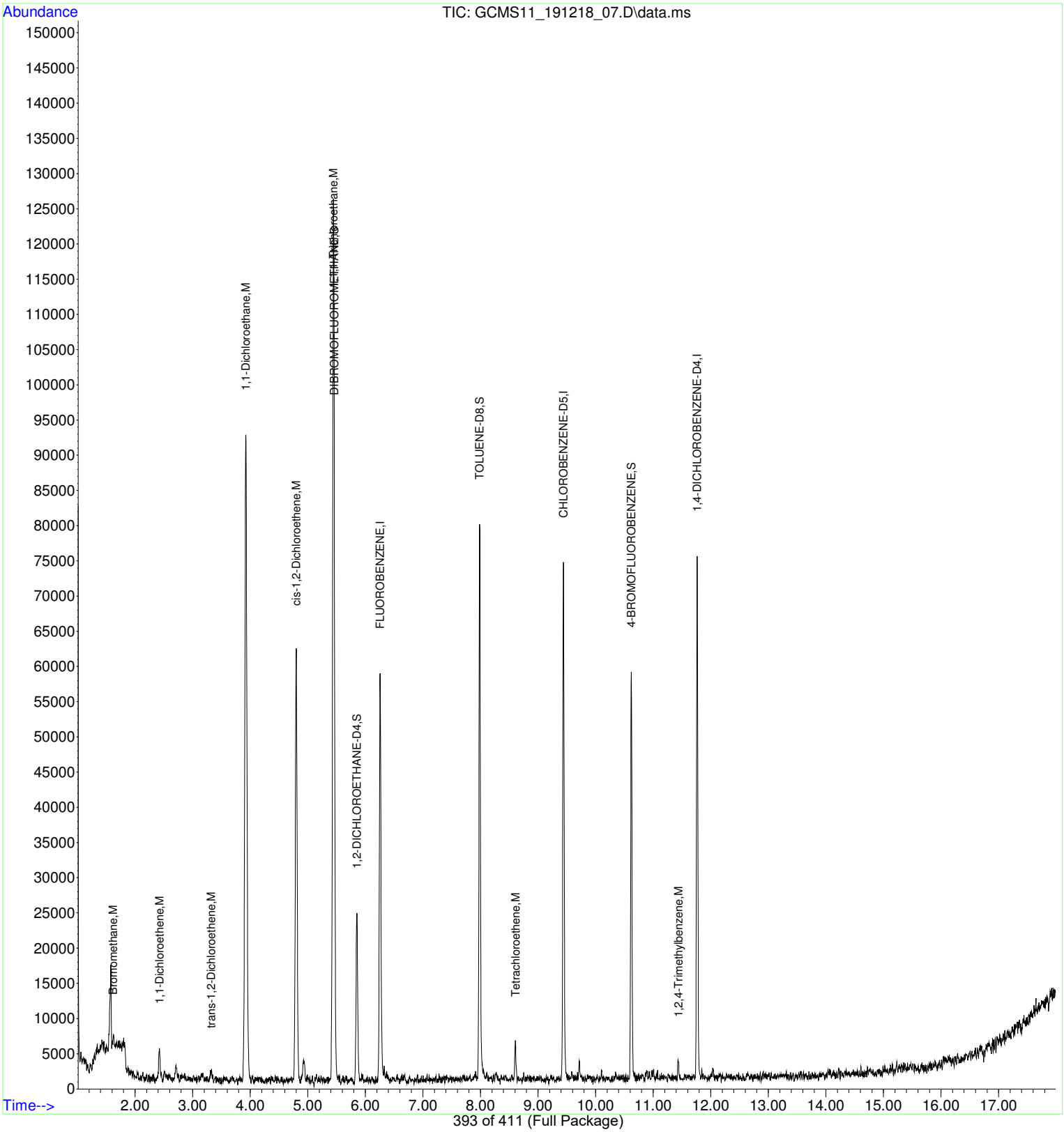
Quant Time: Dec 19 08:21:27 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

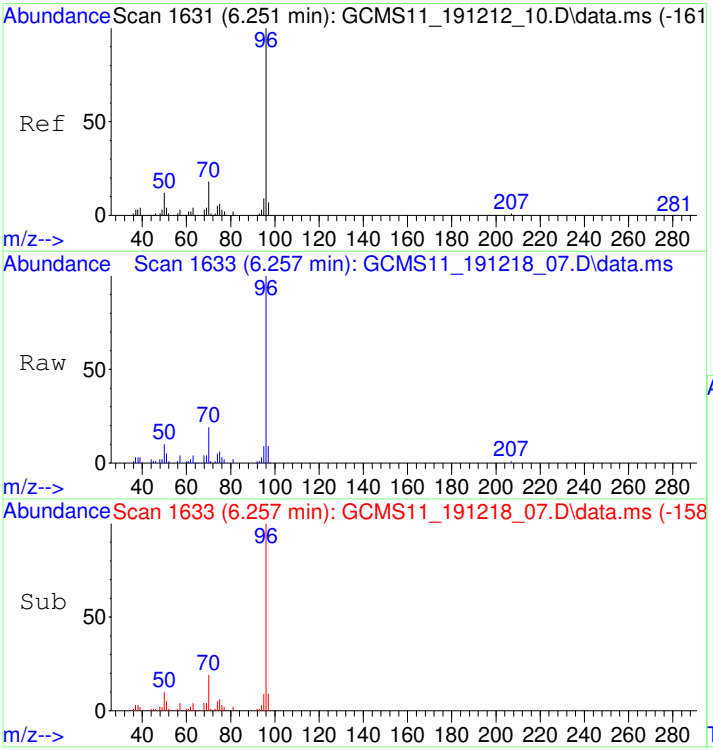
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.26	96	53260	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	21159	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	19542	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.46	113	14369	51.37	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	16386	49.15	ng	0.00
37) TOLUENE-D8	7.98	98	51226	48.90	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	17001	44.31	ng	0.00
Target Compounds						Qvalue
5) Bromomethane	1.62	96	464	1.94	ng	75
9) 1,1-Dichloroethene	2.42	96	1904	6.88	ng	73
14) trans-1,2-Dichloroethene	3.32	96	849m	2.72	ng	
16) 1,1-Dichloroethane	3.92	63	108612	211.06	ng	92
18) cis-1,2-Dichloroethene	4.80	96	31442	93.48	ng	91
23) 1,1,1-Trichloroethane	5.45	97	76200	163.28	ng	97
42) Tetrachloroethene	8.61	164	995	3.74	ng	92
65) 1,2,4-Trimethylbenzene	11.44	105	1245	1.18	ng	62

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

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_07.D
Acq On : 18 Dec 2019 8:13 pm
Operator : ko
Sample : 1912013-06RE1
Misc : LIMS 19L1101
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 08:21:27 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

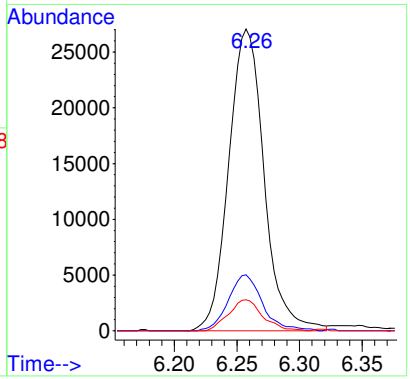


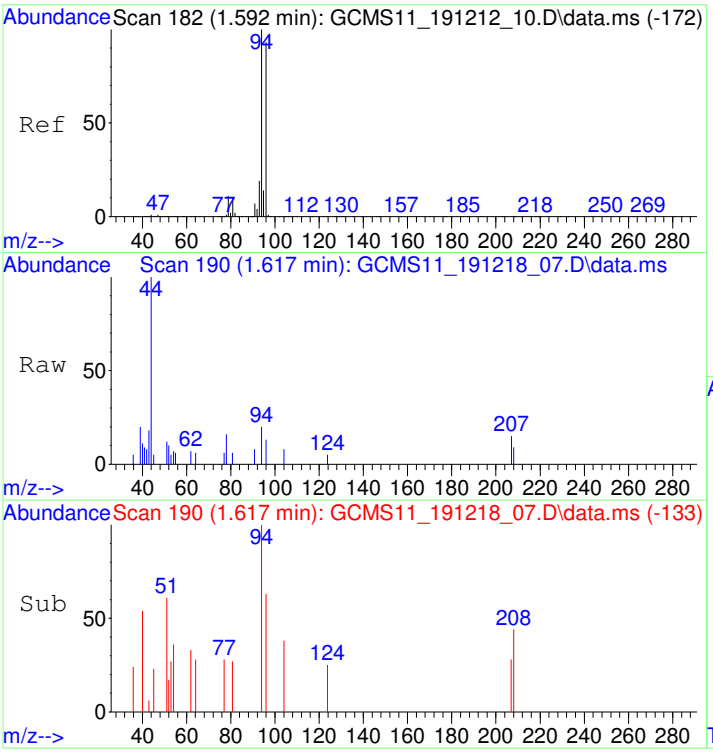


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.26 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191218_07.D
Acq: 18 Dec 2019 8:13 pm

Tgt Ion: 96 Resp: 53260

Ion	Ratio	Lower	Upper
96	100		
70	17.9	0.0	48.3
50	9.9	0.0	39.5

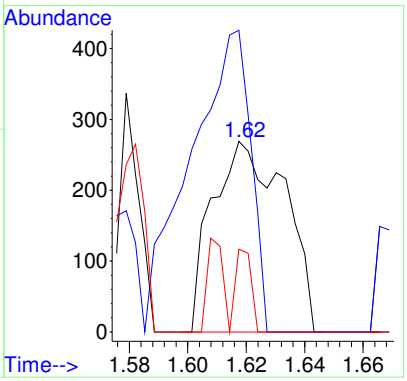


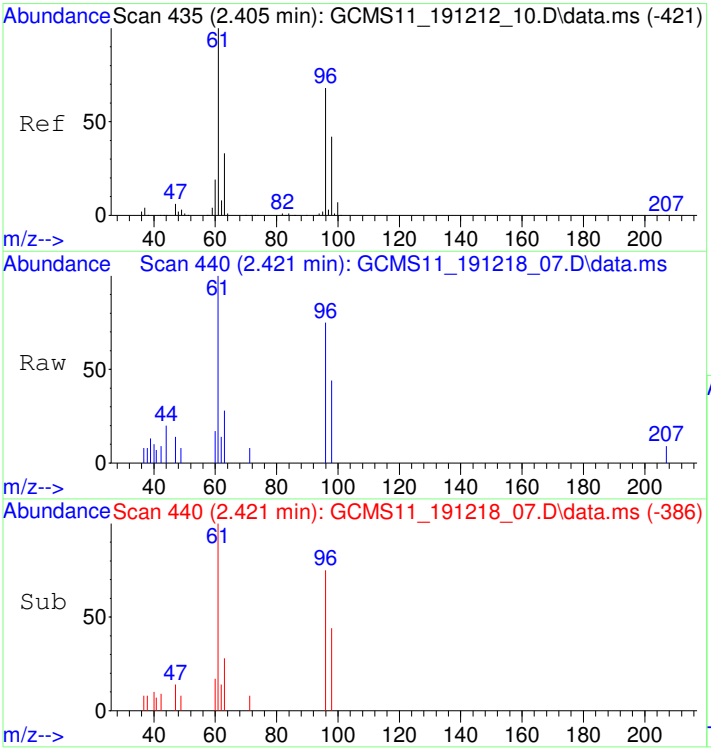


#5
Bromomethane
Concen: 1.94 ng
RT: 1.62 min Scan# 190
Delta R.T. 0.013 min
Lab File: GCMS11_191218_07.D
Acq: 18 Dec 2019 8:13 pm

Tgt Ion: 96 Resp: 464

Ion	Ratio	Lower	Upper
96	100		
94	132.3	74.8	134.8
81	9.5	0.0	42.0

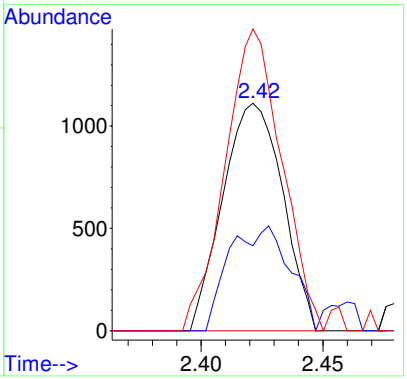


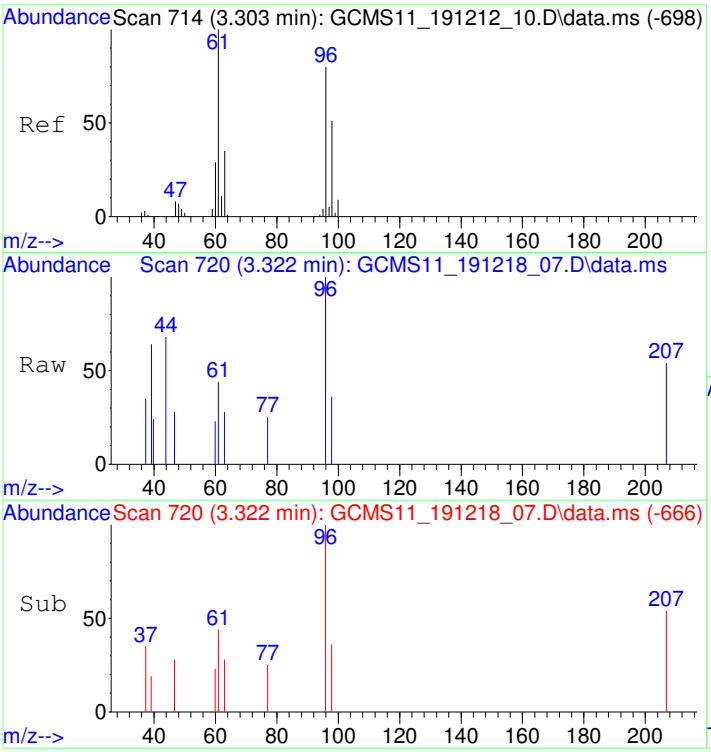


#9
1,1-Dichloroethene
Concen: 6.88 ng
RT: 2.42 min Scan# 440
Delta R.T. 0.003 min
Lab File: GCMS11_191218_07.D
Acq: 18 Dec 2019 8:13 pm

Tgt Ion: 96 Resp: 1904

Ion	Ratio	Lower	Upper
96	100		
63	21.8	20.7	80.7
61	125.3	123.9	183.9

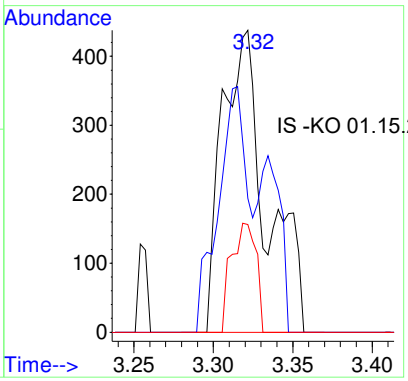


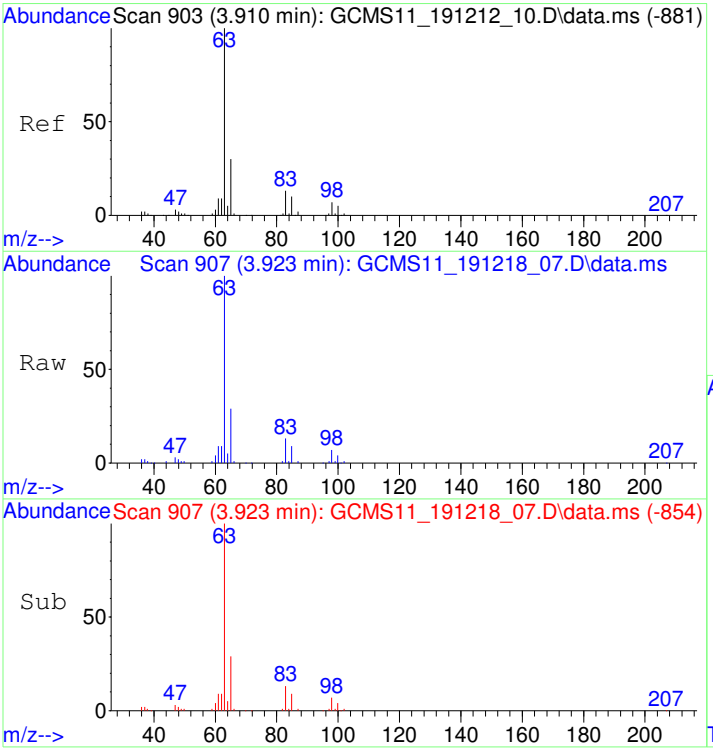


#14
trans-1,2-Dichloroethene
Concen: 2.72 ng m
RT: 3.32 min Scan# 720
Delta R.T. 0.003 min
Lab File: GCMS11_191218_07.D
Acq: 18 Dec 2019 8:13 pm

Tgt Ion: 96 Resp: 849

Ion	Ratio	Lower	Upper
96	100		
61	53.4	99.6	159.6#
98	20.3	35.3	95.3#

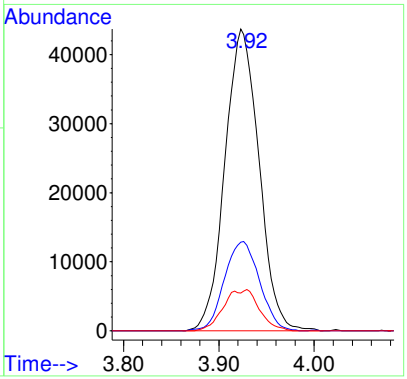


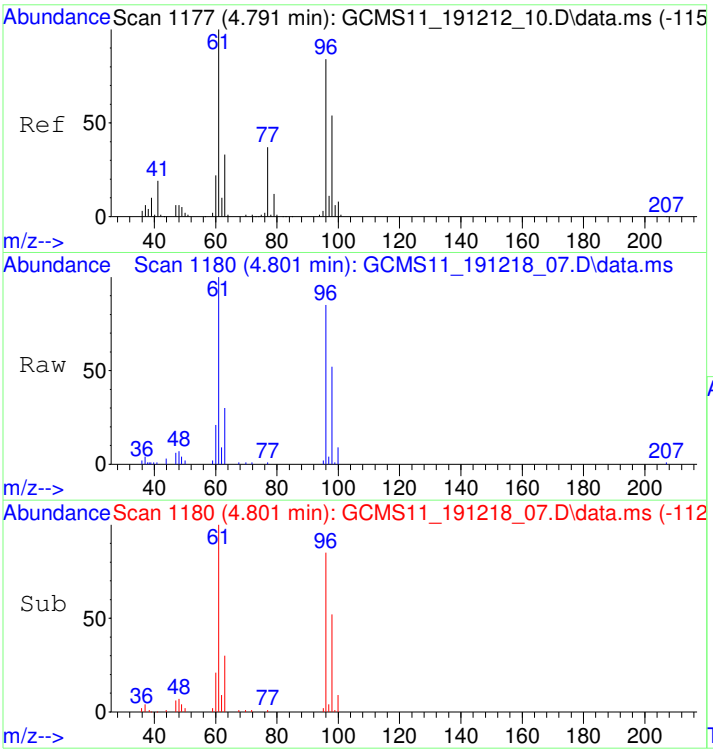


#16
1,1-Dichloroethane
Concen: 211.06 ng
RT: 3.92 min Scan# 907
Delta R.T. -0.000 min
Lab File: GCMS11_191218_07.D
Acq: 18 Dec 2019 8:13 pm

Tgt Ion: 63 Resp: 108612

Ion	Ratio	Lower	Upper
63	100		
65	30.6	2.8	62.8
83	7.5	0.0	44.3

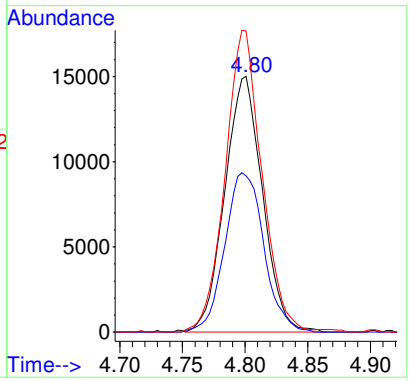


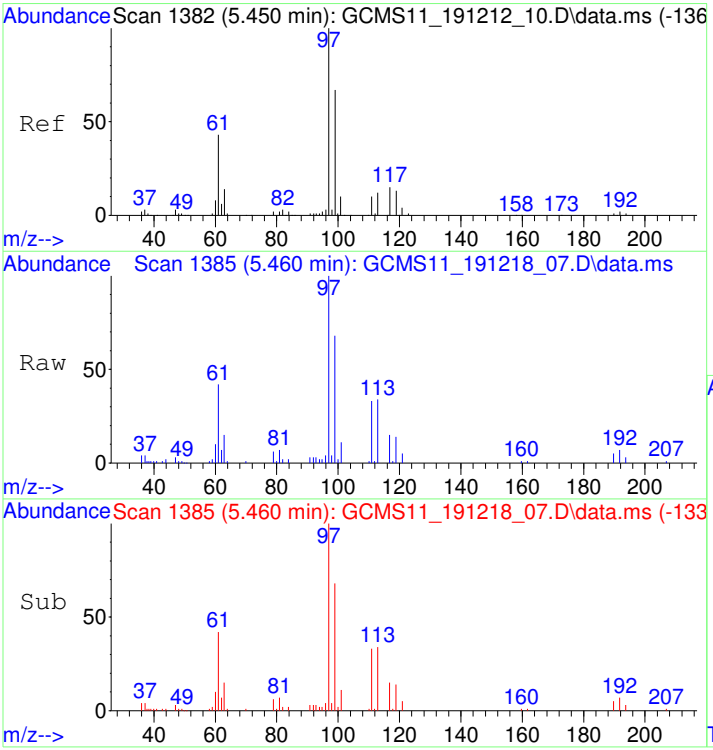


#18
cis-1,2-Dichloroethene
Concen: 93.48 ng
RT: 4.80 min Scan# 1180
Delta R.T. -0.000 min
Lab File: GCMS11_191218_07.D
Acq: 18 Dec 2019 8:13 pm

Tgt Ion: 96 Resp: 31442

Ion	Ratio	Lower	Upper
96	100		
98	64.6	30.6	90.6
61	114.8	96.6	156.6

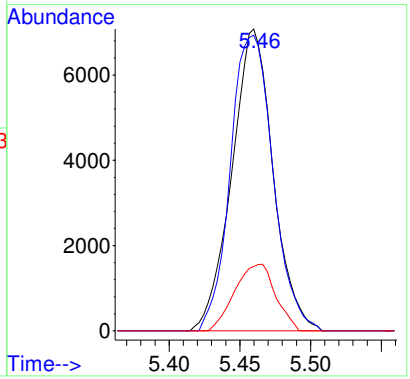


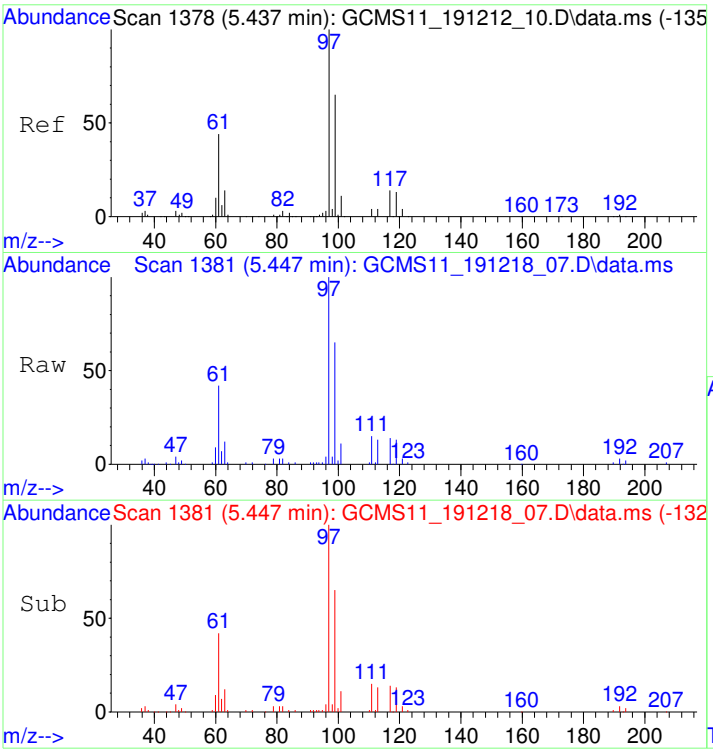


#22
DIBROMOFLUOROMETHANE
Concen: 51.37 ng
RT: 5.46 min Scan# 1385
Delta R.T. -0.000 min
Lab File: GCMS11_191218_07.D
Acq: 18 Dec 2019 8:13 pm

Tgt Ion:113 Resp: 14369

Ion	Ratio	Lower	Upper
113	100		
111	101.0	75.2	135.2
192	21.8	0.0	52.1

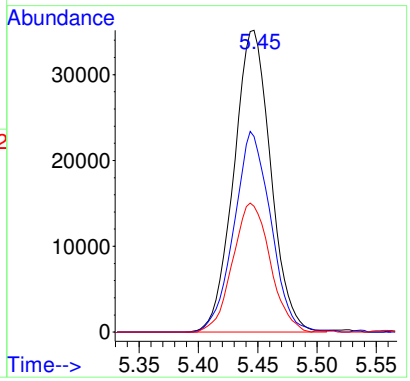


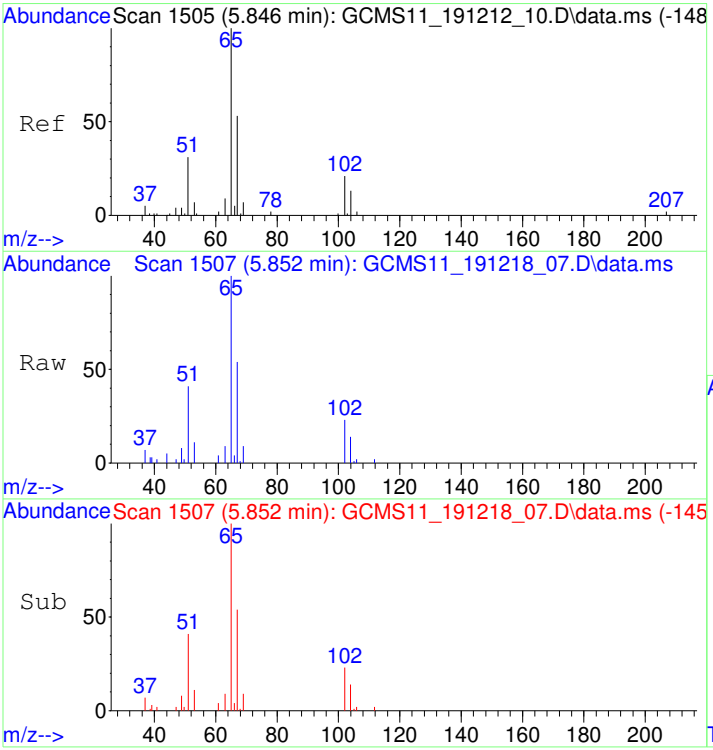


#23
1,1,1-Trichloroethane
Concen: 163.28 ng
RT: 5.45 min Scan# 1381
Delta R.T. 0.003 min
Lab File: GCMS11_191218_07.D
Acq: 18 Dec 2019 8:13 pm

Tgt Ion: 97 Resp: 76200

Ion	Ratio	Lower	Upper
97	100		
99	66.4	32.7	92.7
61	43.5	13.1	73.1

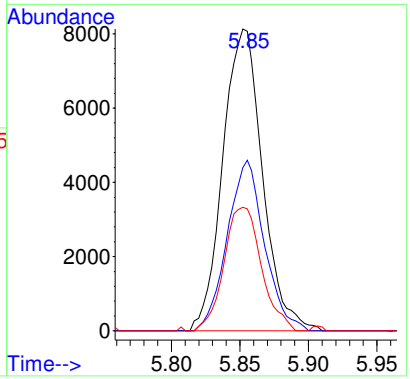


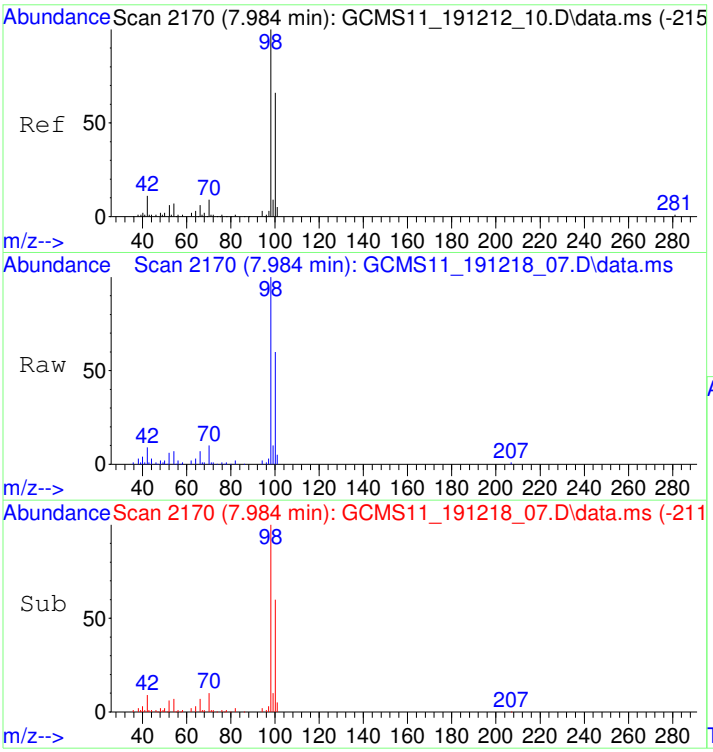


#26
1,2-DICHLOROETHANE-D4
Concen: 49.15 ng
RT: 5.85 min Scan# 1507
Delta R.T. -0.000 min
Lab File: GCMS11_191218_07.D
Acq: 18 Dec 2019 8:13 pm

Tgt Ion: 65 Resp: 16386

Ion	Ratio	Lower	Upper
65	100		
67	52.9	15.4	75.4
51	38.6	2.7	62.7

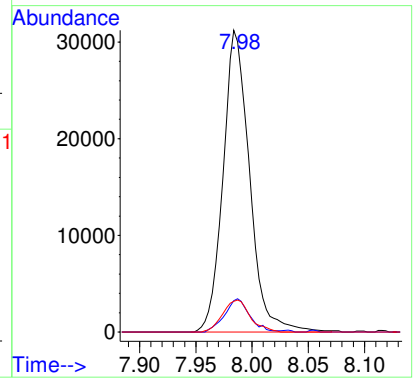


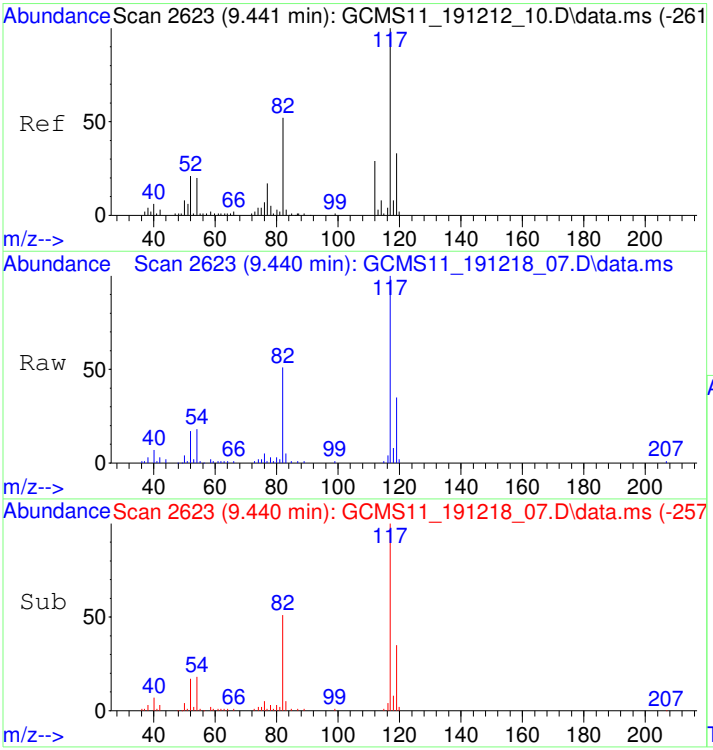


#37
TOLUENE-D8
Concen: 48.90 ng
RT: 7.98 min Scan# 2170
Delta R.T. -0.000 min
Lab File: GCMS11_191218_07.D
Acq: 18 Dec 2019 8:13 pm

Tgt Ion: 98 Resp: 51226

Ion	Ratio	Lower	Upper
98	100		
99	10.4	0.0	39.8
70	11.0	0.0	40.7

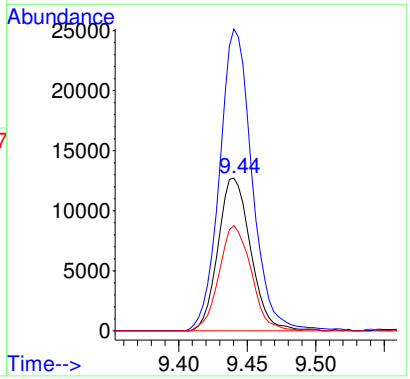


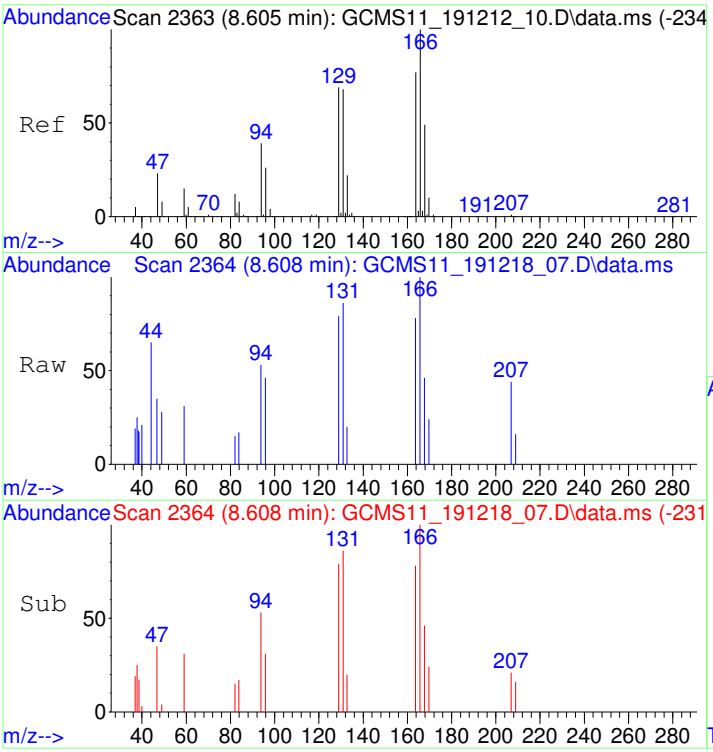


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191218_07.D
Acq: 18 Dec 2019 8:13 pm

Tgt Ion: 82 Resp: 21159

Ion	Ratio	Lower	Upper
82	100		
117	196.3	160.7	220.7
119	67.6	33.5	93.5

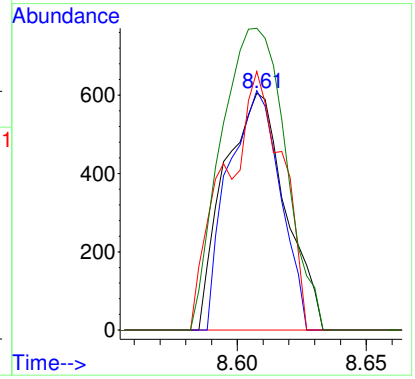


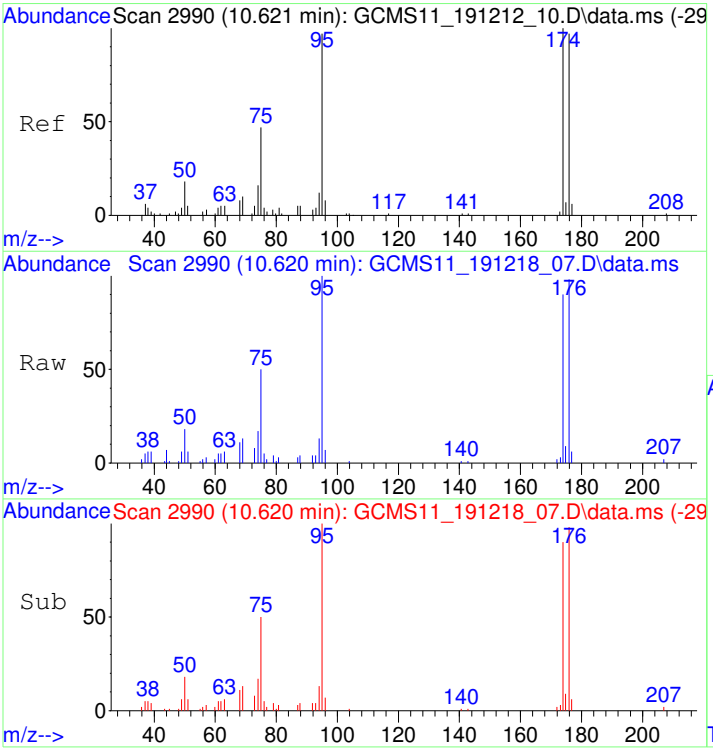


#42
Tetrachloroethene
Concen: 3.74 ng
RT: 8.61 min Scan# 2364
Delta R.T. 0.004 min
Lab File: GCMS11_191218_07.D
Acq: 18 Dec 2019 8:13 pm

Tgt Ion:164 Resp: 995

Ion	Ratio	Lower	Upper
164	100		
129	86.0	57.5	117.5
131	104.0	55.8	115.8
166	135.0	99.4	159.4

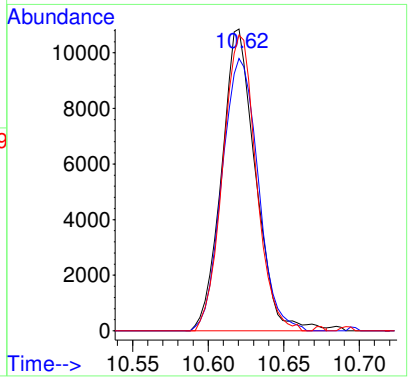


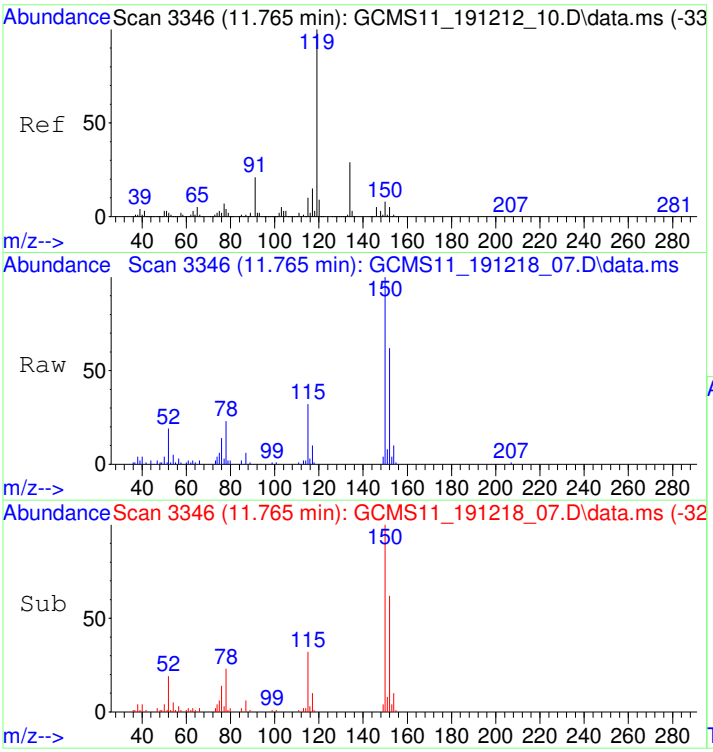


#55
4-BROMOFLUOROBENZENE
Concen: 44.31 ng
RT: 10.62 min Scan# 2990
Delta R.T. -0.000 min
Lab File: GCMS11_191218_07.D
Acq: 18 Dec 2019 8:13 pm

Tgt Ion: 95 Resp: 17001

Ion	Ratio	Lower	Upper
95	100		
174	95.7	68.5	128.5
176	96.2	66.8	126.8

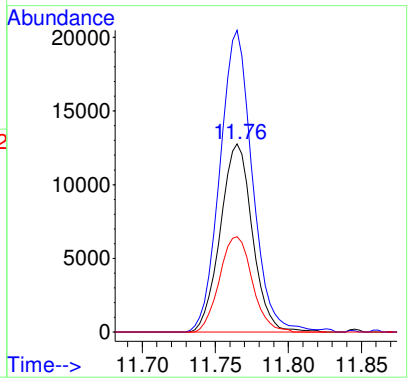


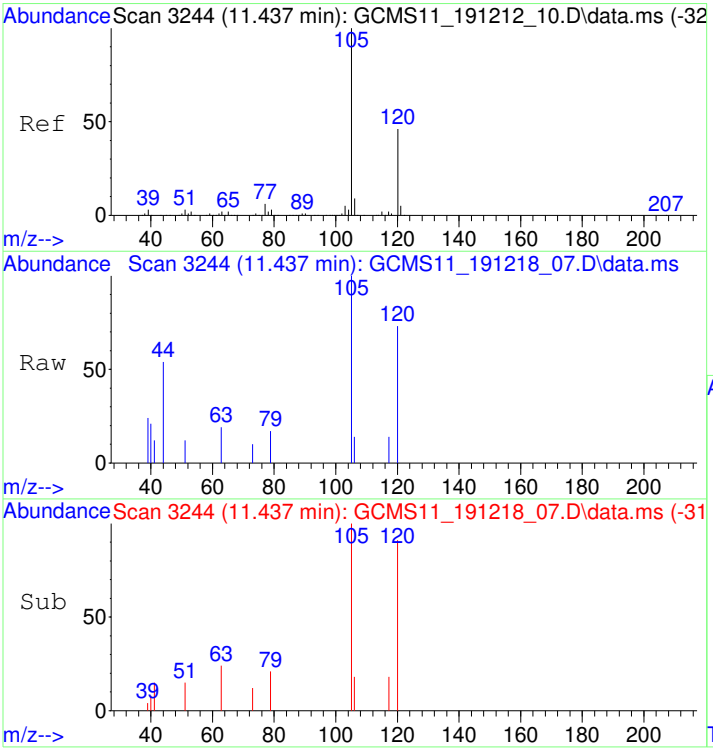


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.76 min Scan# 3346
Delta R.T. -0.000 min
Lab File: GCMS11_191218_07.D
Acq: 18 Dec 2019 8:13 pm

Tgt Ion:152 Resp: 19542

Ion	Ratio	Lower	Upper
152	100		
150	161.8	162.5	222.5#
115	51.7	82.3	142.3#

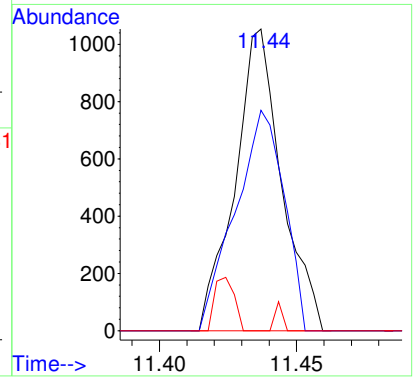




#65
1,2,4-Trimethylbenzene
Concen: 1.18 ng
RT: 11.44 min Scan# 3244
Delta R.T. -0.000 min
Lab File: GCMS11_191218_07.D
Acq: 18 Dec 2019 8:13 pm

Tgt Ion:105 Resp: 1245

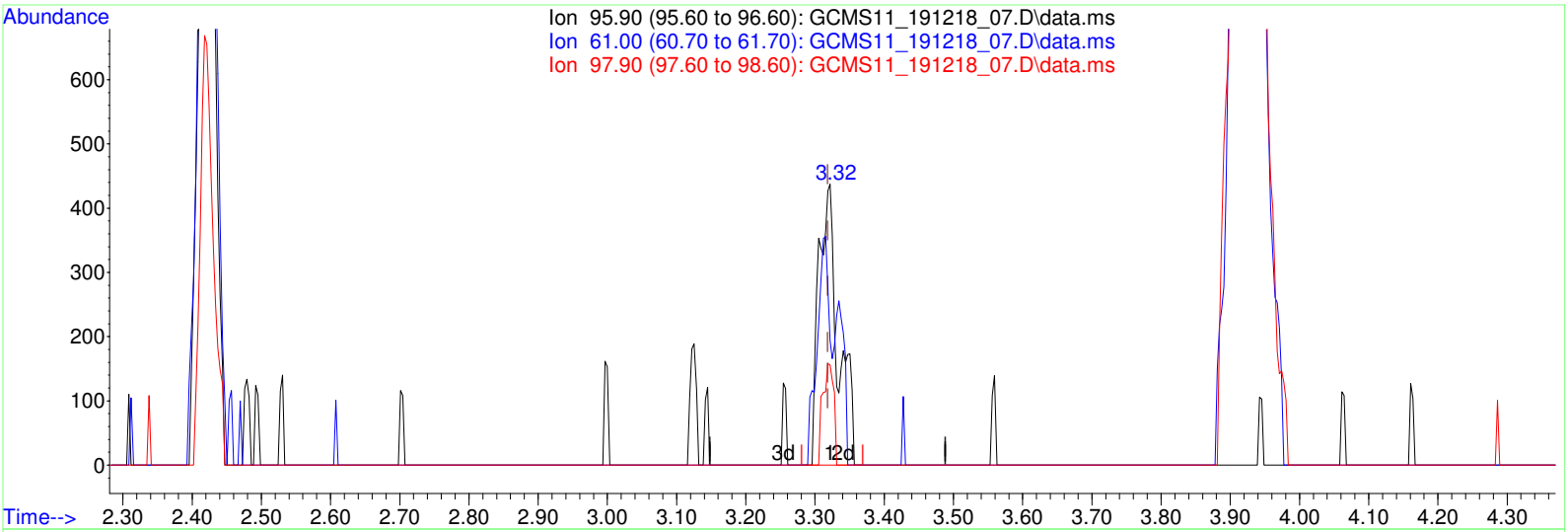
Ion	Ratio	Lower	Upper
105	100		
120	76.6	18.6	78.6
77	1.5	0.0	41.4

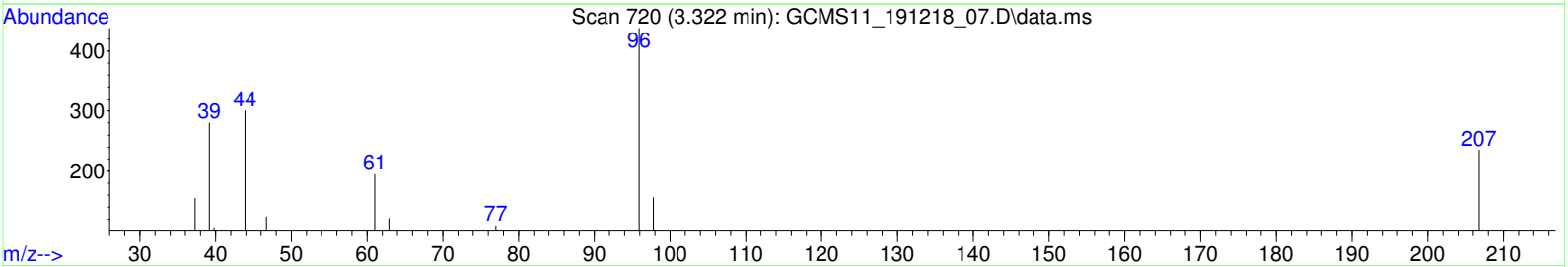


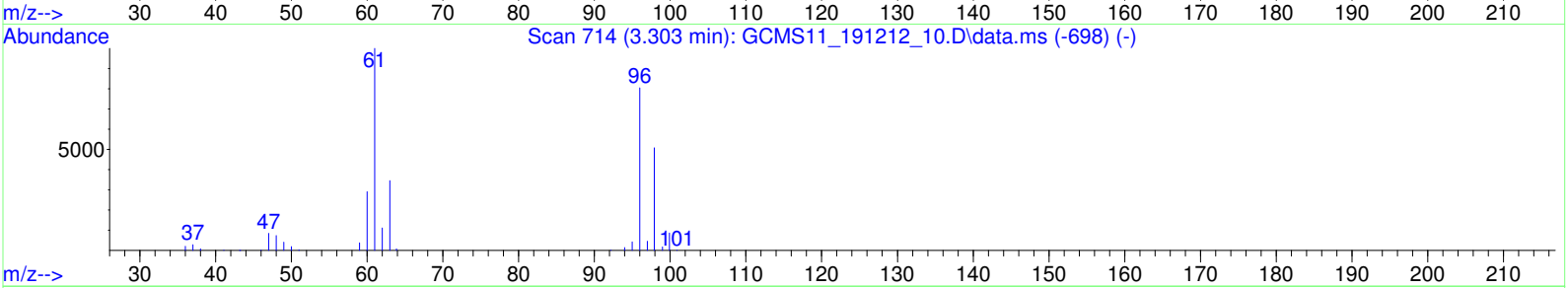
Quantitation Report (Qedit)

Data Path : D:\Kelsey\191218\
Data File : GCMS11_191218_07.D
Acq On : 18 Dec 2019 8:13 pm
Operator : ko
Sample : 1912013-06RE1
Misc : LIMS 19L1101
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 08:19:25 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration







TIC: GCMS11_191218_07.D\data.ms

(14) trans-1,2-Dichloroethene (M)

3.322min (+ 0.003) 2.72 ng m

response 849

Ion	Exp%	Act%
95.90	100.00	100.00
61.00	129.60	53.36#
97.90	65.30	20.26#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_36.D
Acq On : 17 Dec 2019 6:24 am
Operator : ko
Sample : 1912013-07
Misc : LIMS 19L1101
ALS Vial : 29 Sample Multiplier: 1

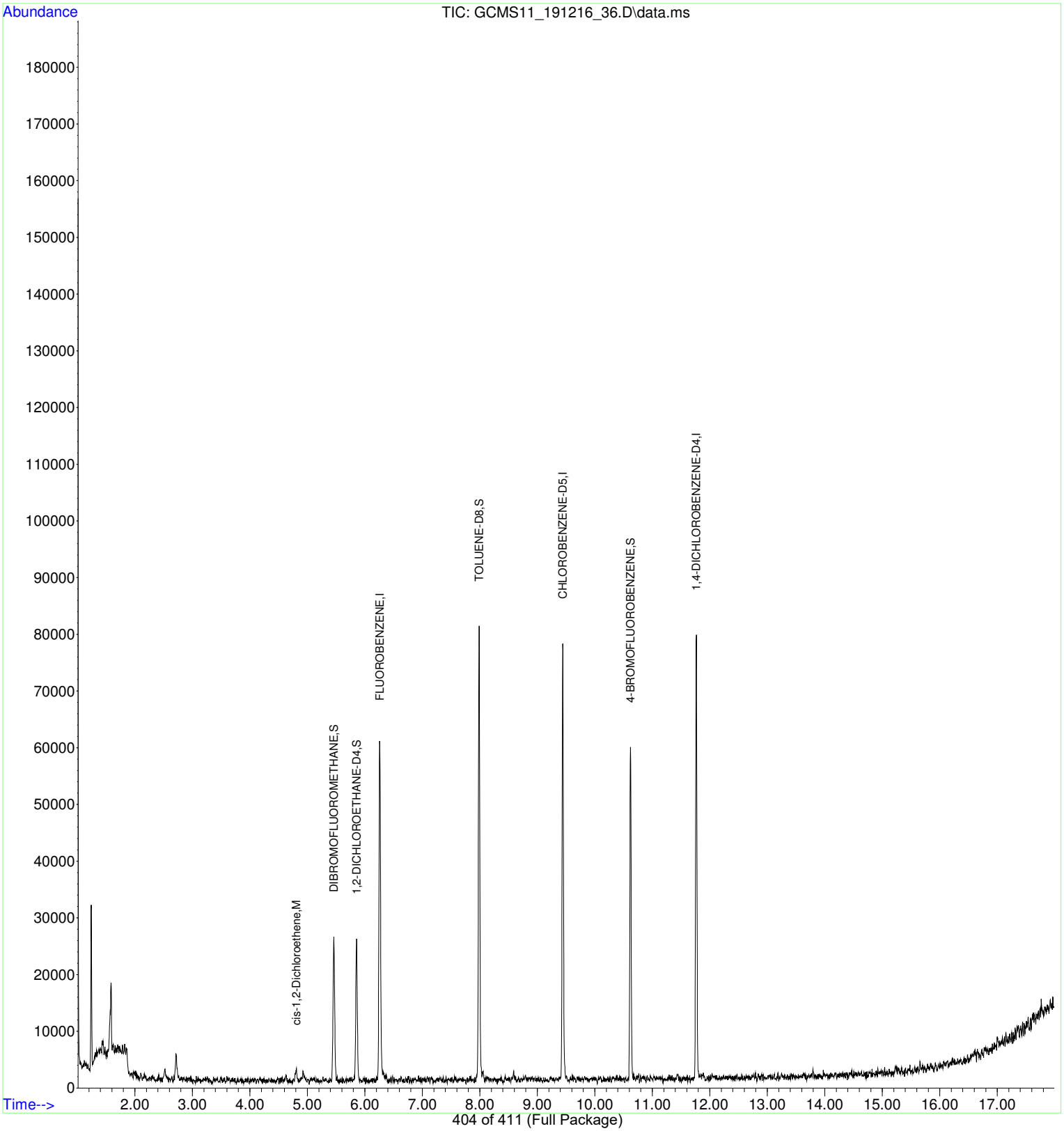
Quant Time: Dec 17 15:03:56 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

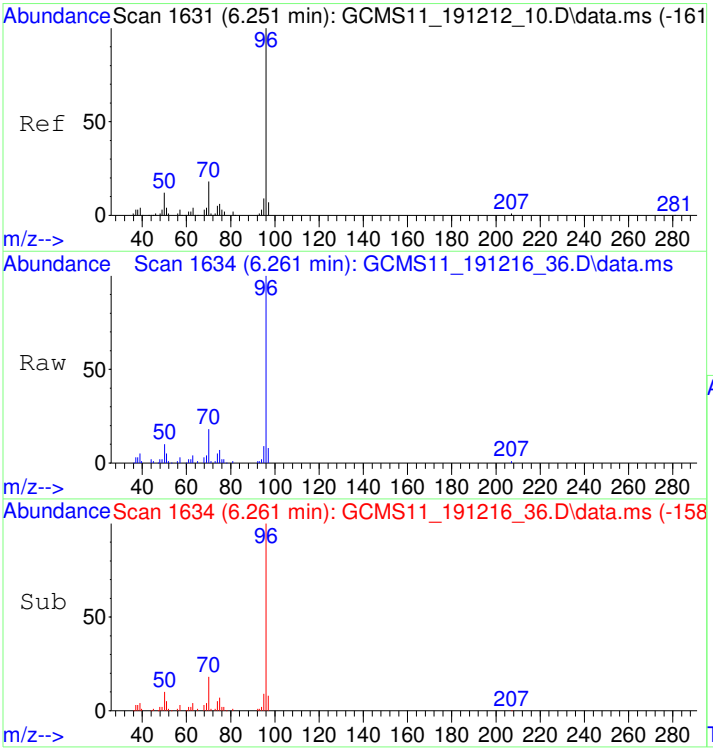
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) FLUOROBENZENE	6.26	96	55057	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	21020	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	20288	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.46	113	14611	50.53 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.86	65	16715	48.50 ng	0.00
37) TOLUENE-D8	7.99	98	51583	47.64 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	17307	45.41 ng	0.00
Target Compounds					Qvalue
18) cis-1,2-Dichloroethene	4.81	96	887	2.55 ng	# 74

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

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_36.D
Acq On : 17 Dec 2019 6:24 am
Operator : ko
Sample : 1912013-07
Misc : LIMS 19L1101
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Dec 17 15:03:56 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

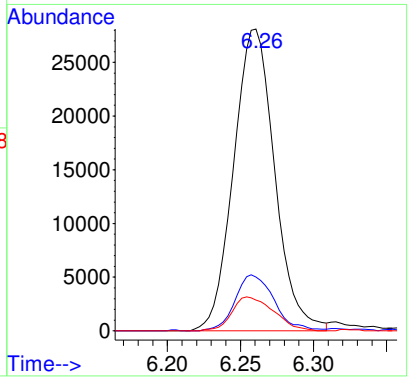


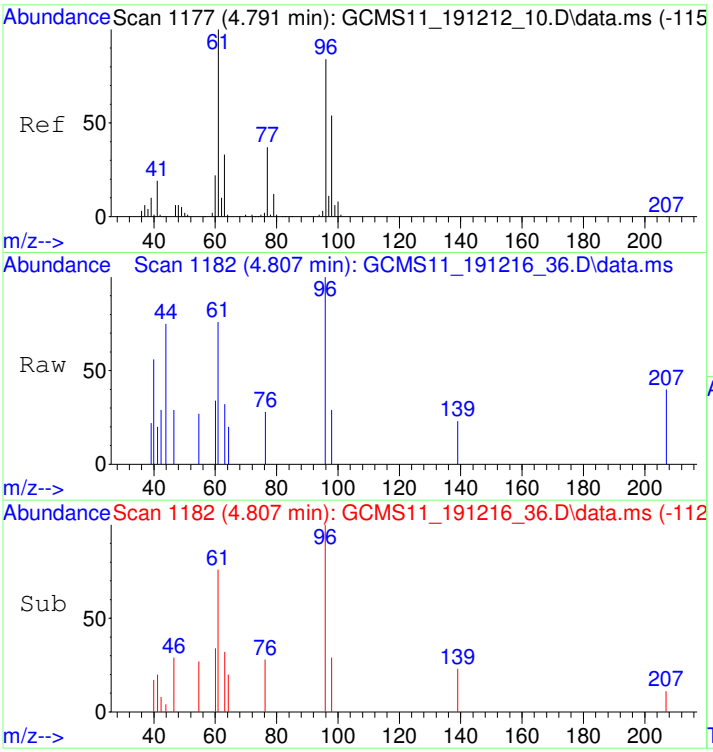


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.26 min Scan# 1634
Delta R.T. 0.004 min
Lab File: GCMS11_191216_36.D
Acq: 17 Dec 2019 6:24 am

Tgt Ion: 96 Resp: 55057

Ion	Ratio	Lower	Upper
96	100		
70	17.6	0.0	48.3
50	11.4	0.0	39.5

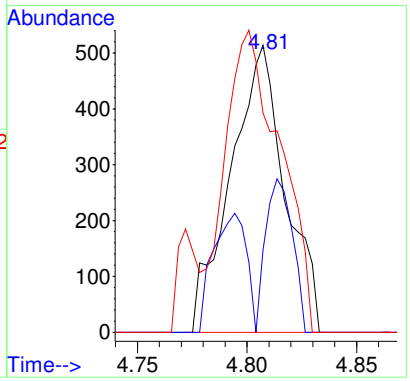


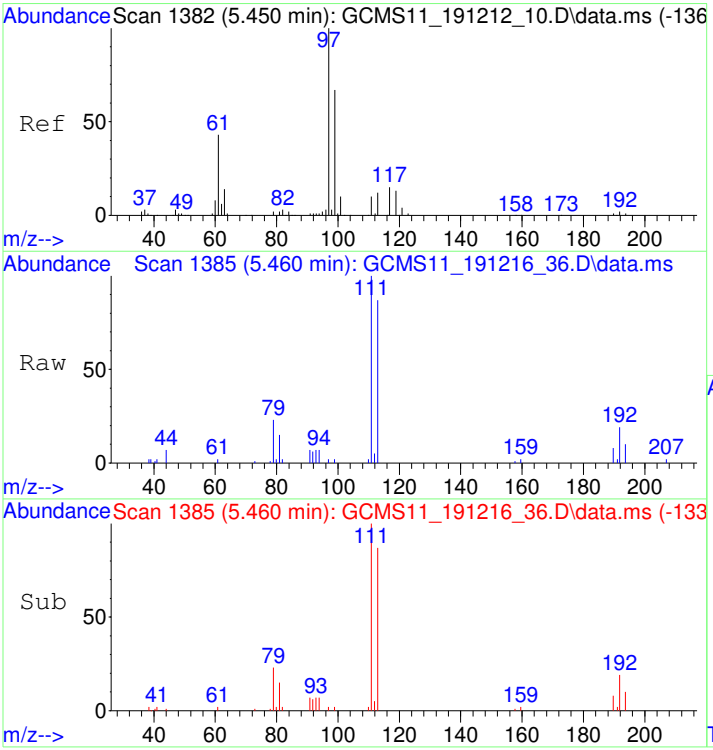


#18
cis-1,2-Dichloroethene
Concen: 2.55 ng
RT: 4.81 min Scan# 1182
Delta R.T. 0.007 min
Lab File: GCMS11_191216_36.D
Acq: 17 Dec 2019 6:24 am

Tgt Ion: 96 Resp: 887

Ion	Ratio	Lower	Upper
96	100		
98	26.4	30.6	90.6#
61	107.7	96.6	156.6

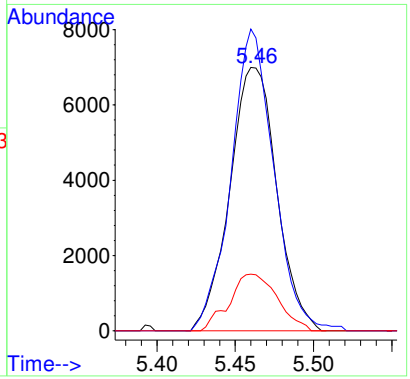


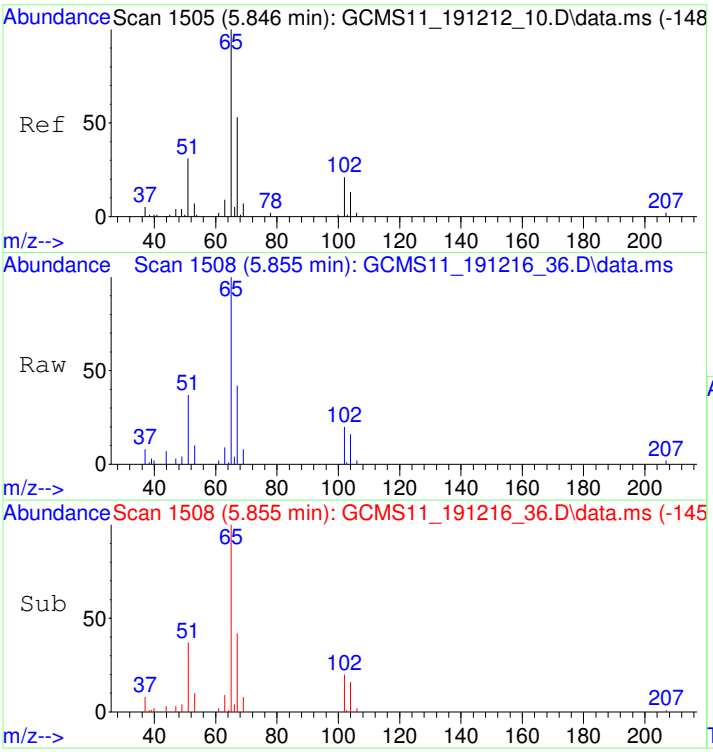


#22
DIBROMOFLUOROMETHANE
Concen: 50.53 ng
RT: 5.46 min Scan# 1385
Delta R.T. 0.000 min
Lab File: GCMS11_191216_36.D
Acq: 17 Dec 2019 6:24 am

Tgt Ion:113 Resp: 14611

Ion	Ratio	Lower	Upper
113	100		
111	104.5	75.2	135.2
192	21.9	0.0	52.1

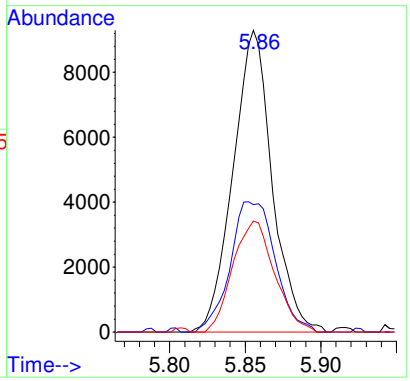


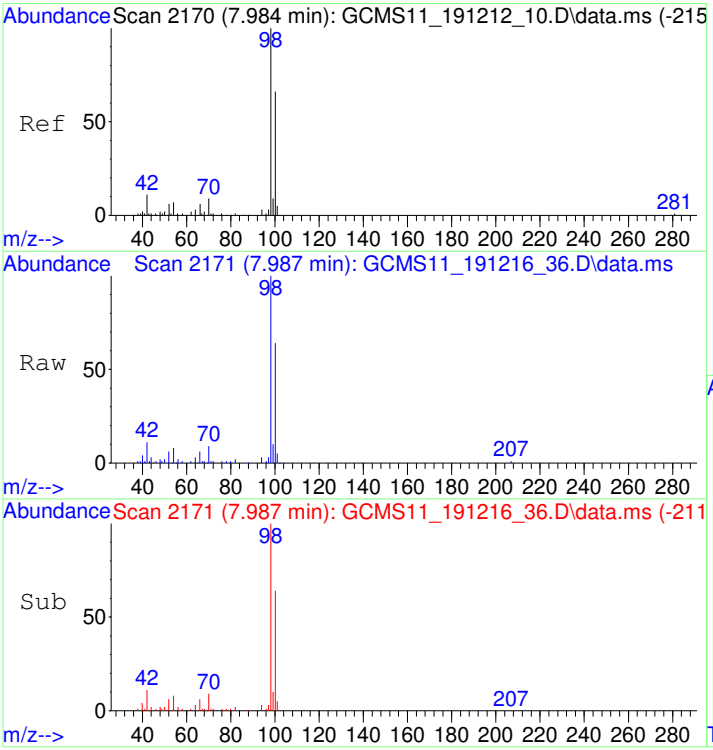


#26
1,2-DICHLOROETHANE-D4
Concen: 48.50 ng
RT: 5.86 min Scan# 1508
Delta R.T. 0.003 min
Lab File: GCMS11_191216_36.D
Acq: 17 Dec 2019 6:24 am

Tgt Ion: 65 Resp: 16715

Ion	Ratio	Lower	Upper
65	100		
67	49.8	15.4	75.4
51	39.3	2.7	62.7

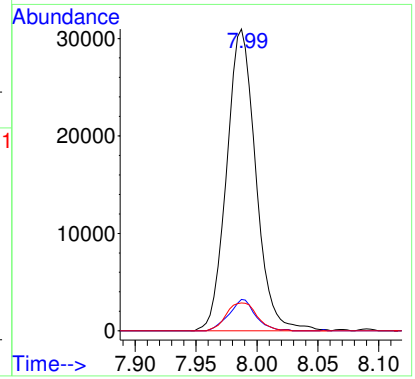


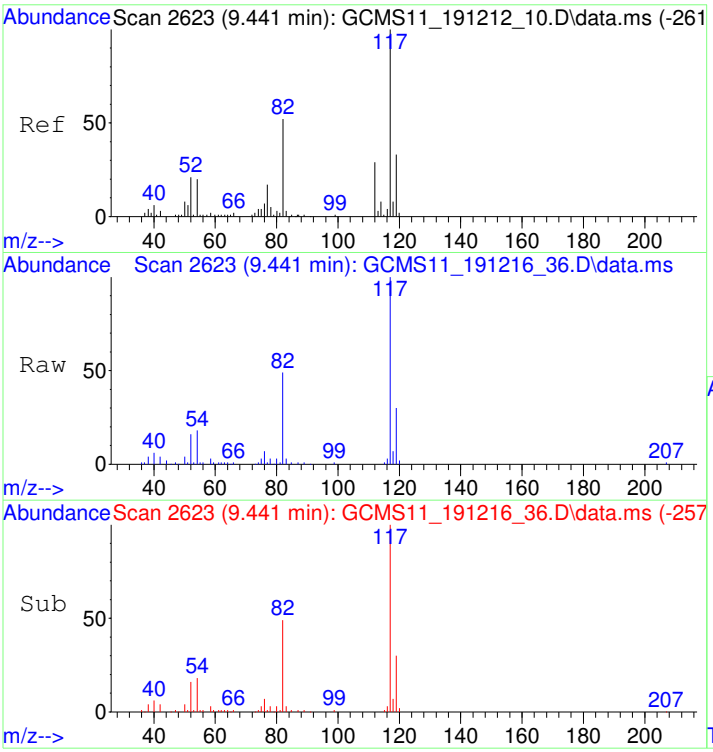


#37
TOLUENE-D8
Concen: 47.64 ng
RT: 7.99 min Scan# 2171
Delta R.T. 0.003 min
Lab File: GCMS11_191216_36.D
Acq: 17 Dec 2019 6:24 am

Tgt Ion: 98 Resp: 51583

Ion	Ratio	Lower	Upper
98	100		
99	9.6	0.0	39.8
70	9.8	0.0	40.7

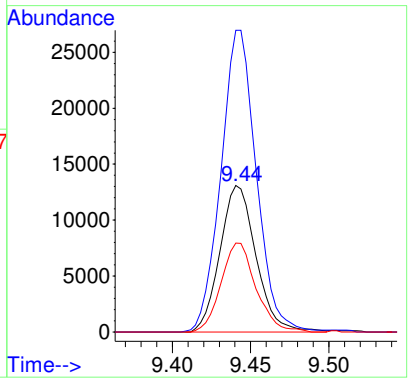


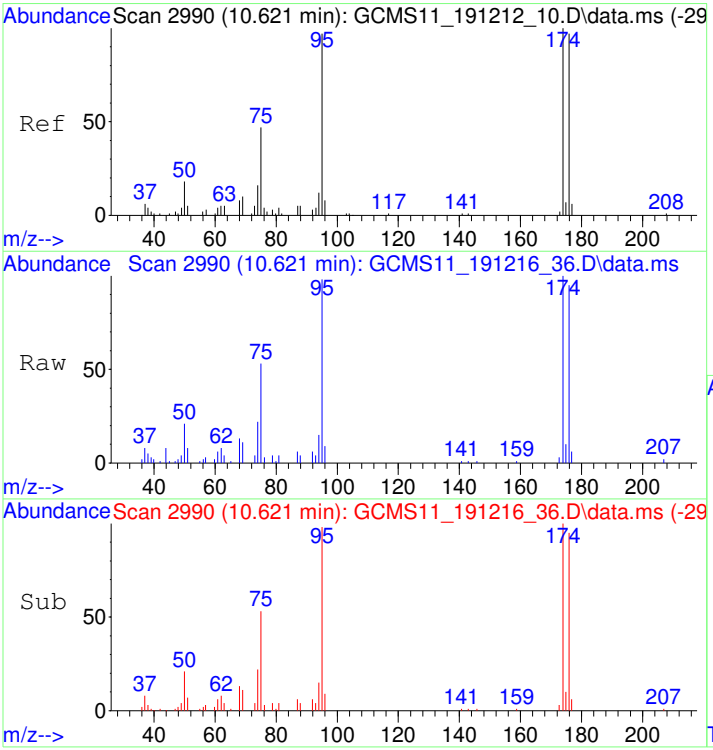


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.001 min
Lab File: GCMS11_191216_36.D
Acq: 17 Dec 2019 6:24 am

Tgt Ion: 82 Resp: 21020

Ion	Ratio	Lower	Upper
82	100		
117	201.5	160.7	220.7
119	58.8	33.5	93.5

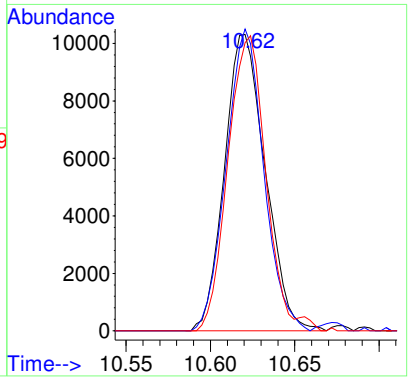


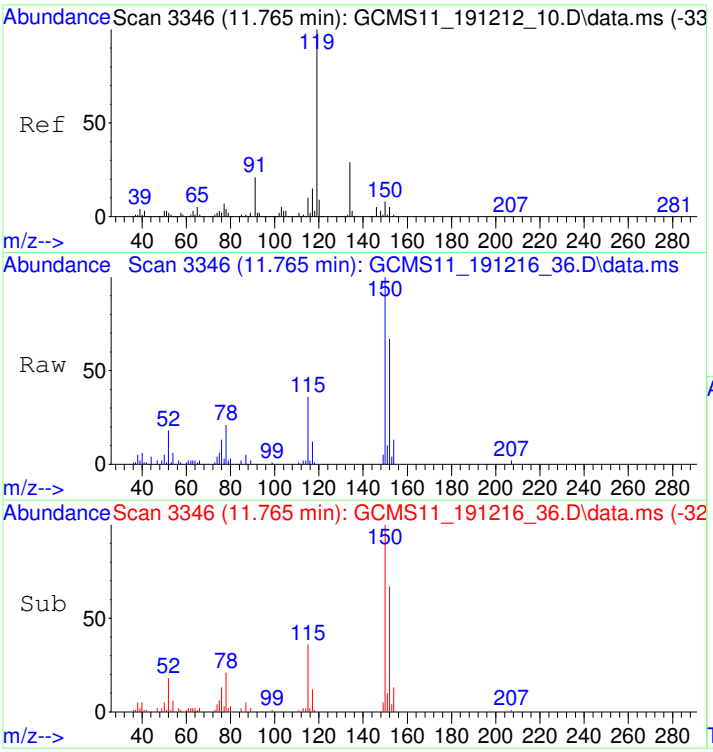


#55
4-BROMOFLUOROBENZENE
Concen: 45.41 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191216_36.D
Acq: 17 Dec 2019 6:24 am

Tgt Ion: 95 Resp: 17307

Ion	Ratio	Lower	Upper
95	100		
174	94.0	68.5	128.5
176	93.2	66.8	126.8

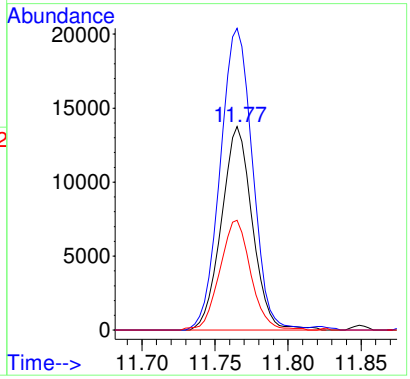




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191216_36.D
Acq: 17 Dec 2019 6:24 am

Tgt Ion:152 Resp: 20288

Ion	Ratio	Lower	Upper
152	100		
150	154.3	162.5	222.5#
115	54.0	82.3	142.3#



Deviation Type: ☐ one-time ☑ continuous **Pen&Ink Reference No:** Pen&Ink I 18916

Due Date: 45 days (for continuous deviations)

A copy of the approved Pen&Ink form shall be included in all relevant data packages until the deviation is either no longer applicable or incorporated in the pertinent SOP. Include this pen&ink reference number in case narratives when applicable. Continuous pen&ink changes have a 45 TAT unless an extension has been approved by Deputy Director.

Attachments: ☑ Yes ☐ No

Document Title & Number (SOP or QMP)	MS023 Analysis of Volatile Organic Compounds in Water by GC/MS
Deviation Section	p.16 / section 7.5
Deviation Reason (Technical Justification)	Correction
Deviation Description	Update p. 16 with the attached corrected table.
vdzI-fúNI-È // L5 I hN húKŜN /2YYŜyúă	

Calibration Level	Level 1†	Level 2	Level 3	Level 4	Level 5*	Level 6
Volume of 50 ug/mL spiking solution	4 uL	10 uL	20 uL	50 uL	100 uL	200 uL
ppb of standard	2 ppb	5 ppb	10 ppb	25 ppb	50 ppb	100 ppb
ng on-column#	10 ng	25 ng	50 ng	125 ng	250 ng	500 ng
Volume of 100 ug/mL 1,4-D spiking solution	25 uL	50 uL	100 uL	150 uL	200 uL	
ppb of standard	25 ppb	50 ppb	100 ppb	150 ppb	200 ppb	
ng on-column#	125 ng	250 ng	500 ng	750 ng	1000 ng	

† Level 1 serves as the MRL spiking level.
* Level 4 or 5 serves as the ICV, CCV, and BS/BSD spiking level. Level 3 serves for 1,4-dioxane.
# Assuming 100% transfer from AtomX and a 5-mL sample aliquot

NOTE: The 125 ng (25 ppb) ICAL standard and CCV standard(s) can double as the BS/BSD QC samples. The 10 ng (2 ppb) ICAL standard can double as the RL check QC sample.

7.5.2 The spiking solutions must be introduced directly into the reagent water (below the meniscus in the volumetric flask) to avoid potential loss of analytes. Once a volumetric flask has been spiked, it can be brought up to volume with reagent water, fitted with a ground-glass stopper, and inverted no more than 3 times to mix the solution before filling up the corresponding 40 mL VOA vial(s) with no headspace.

The following tables outline the corresponding concentrations in the calibration standards and the ng injected on-column (assuming 5 mL aliquot and 100% recovery) for the analytes that have variable concentrations in the nominally 50 ug/mL spiking solutions. See the notes under Section 7.3.3 for further details.

250 ug/mL concentration in 50 ug/mL spiking solution	**Level 1**	**Level 2**	**Level 3**	**Level 4**	**Level 5***	**Level 6**
Acrolein **Acetone** **Acrylonitrile** **2-Butanone**	10 ppb 50 ng	25 ppb 125 ng	50 ppb 250 ng	125 ppb 625 ng	250 ppb 1250 ng	500 ppb 2500 ng
100 ug/mL concentration in 50 ug/mL spiking solution	**Level 1**	**Level 2**	**Level 3**	**Level 4**	**Level 5***	**Level 6**
4-Methyl-2-pentanone **2-Hexanone** **m+p-Xylene**	4 ppb 20 ng	10 ppb 50 ng	20 ppb 100 ng	50 ppb 250 ng	100 ppb 500 ng	200 ppb 1000 ng

7.5.3 A method blank is prepared by collecting the same reagent water used to prepare the calibration standards into a 100 mL volumetric flask, then transferring to a 40 mL VOA vial with no headspace. Instrument blanks may also berun to periodically check for carryover contamination in the system after highly concentrated standards (i.e. at the end of a

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191216\
Data File : GCMS11_191216_34.D
Acq On : 17 Dec 2019 5:24 am
Operator : ko
Sample : 1912013-05
Misc : LIMS 19L1101, 50X ATOMX DILUTION
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 17 14:59:04 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) FLUOROBENZENE	6.25	96	51570	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	20012	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	20152	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.45	113	14761	54.50 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	16028	49.66 ng	0.00
37) TOLUENE-D8	7.99	98	51470	50.75 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	17260	47.57 ng	0.00
Target Compounds					Qvalue
14) trans-1,2-Dichloroethene	3.32	96	317	1.05 ng #	74
16) 1,1-Dichloroethane	3.92	63	7444	14.94 ng	71
18) cis-1,2-Dichloroethene	4.79	96	8290	25.46 ng	94
23) 1,1,1-Trichloroethane	5.44	97	7024	15.54 ng	95

reported in this batch

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

GCMS11_1912..._FULL LIST.M Tue Dec 17 14:59:22 2019

below cal

next dil: 2x

(636.50)