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):	1912009
Analysis:	Volatiles
Primary Analyst:	Kelsey O'Malley
Date:	01.21.2020
Data Reporting Qualtrax Workflow ID:	20695

Digital Signature of Primary Analyst:

KELSEY O'MALLEY Digitally signed by KELSEY O'MALLEY
Date: 2020.01.21 10:35:23 -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 v.6 P&I 18916_____ Site Name:_SE Rockford GW Contamination (Area 7)_____
CRL Batch #: ___B19L012,19,26_____ ESAT TDF #: _____
CRL Work Order #: _____1912009_____ (For ESAT Data Packages)

Analyst Name (print) / Date (QC1): __Kelsey O'Malley / 01.06.2020_____
Reviewer Name (print) / Date (QC2): __DL 01.21.20_____

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_ n/a

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_ _n/a

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 \1912009

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

Analyst Signature / Date: Kelsey O'Malley 01.21.2020

"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 Lang 01.21.20

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

US EPA Region 5 LSASD Analytical Services Branch

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: **1/21/2020**

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: 1912009 VOA - 8260 FINAL Jan 21 20 1029

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-21-20 10:29

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-21-20 10:29

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

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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-21-20 10:29

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

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-21-20 10:29

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

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-21-20 10:29

Analysis Case Narrative

General Information

Twelve water samples were received by the Analytical Services Branch (ASB) on December 11, 2019 and analyzed from December 12 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 (1912009-01) and one trip blank (1912009-12) 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 MS and MSD 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 B19L019-BS, BSD, and B19L026-BSD1 samples. Bromomethane failed low in B19J026-BS1 and BSD1. The analytes are flagged as estimates in applicable field samples (J, [LCS]').

Surrogates

4-Bromofluorobenzene fell below recovery limits in 1912009-02RE2. All other surrogates met QC requirements so no additional 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: 12/11/2019 2:30:11PM**

1912009

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
Superfund, US EPA Region 5

77 West Jackson Boulevard
Chicago, IL 60604

Phone: (312) 353-2310
Fax: (312) 886-6171

Date Due:	Jan-27-20 15:00 (47 day TAT)		
Received By:	Robert Snyder	Date Received:	Dec-11-19 11:05
Logged In By:	Robert Snyder	Date Logged In:	Dec-11-19 12:43

Sample tags/labels	**Yes**	**Work Order Comments:**
Seals Intact	**Yes**	
Received on ice	**Yes**	
Paperwork Included	**Yes**	

Cooler(s) information:
Default Cooler - 1.70 C

Sample ID: **1912009-01** **Sampled:** **Dec-10-19 16:30** **Matrix:** **Water**

Sample Name: **A7-FB001-191210** **Sample Location/Comments:** **Field Blank**

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-24-19 16:30	

Sample ID: **1912009-02** **Sampled:** **Dec-10-19 13:20** **Matrix:** **Water**

Sample Name: **A7-MW103A-191210** **Sample Location/Comments:** **A7-MW103A**

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-24-19 13:20	

Sample ID: **1912009-03** **Sampled:** **Dec-10-19 13:20** **Matrix:** **Water**

Sample Name: **A7-MW103A-191210-D** **Sample Location/Comments:** **A7-MW103A**

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-24-19 13:20	

1912009

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: 1912009-04 **Sampled:** Dec-10-19 10:35 **Matrix:** Water

Sample Name: A7-MW103D-191210 **Sample Location/Comments:** A7-MW103D

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-24-19 10:35	

Sample ID: 1912009-05 **Sampled:** Dec-10-19 16:00 **Matrix:** Water

Sample Name: A7-MW106A-191210 **Sample Location/Comments:** A7-MW106A

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-24-19 16:00	

Sample ID: 1912009-06 **Sampled:** Dec-10-19 09:40 **Matrix:** Water

Sample Name: A7-MW112B-191210 **Sample Location/Comments:** A7-MW112B

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-24-19 09:40	

Sample ID: 1912009-07 **Sampled:** Dec-10-19 09:55 **Matrix:** Water

Sample Name: A7-MW112C-191210 **Sample Location/Comments:** A7-MW112C

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-24-19 09:55	

Sample ID: 1912009-08 **Sampled:** Dec-10-19 14:30 **Matrix:** Water

Sample Name: A7-MW134B-191210 **Sample Location/Comments:** A7-MW134B

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-24-19 14:30	

1912009

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: 1912009-09 **Sampled:** Dec-10-19 11:55 **Matrix:** Water

Sample Name: A7-MW134C-191210 **Sample Location/Comments:** A7-MW134C

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-24-19 11:55	

Sample ID: 1912009-10 **Sampled:** Dec-10-19 11:35 **Matrix:** Water

Sample Name: A7-MW148-191210 **Sample Location/Comments:** A7-MW148

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-24-19 11:35	

Sample ID: 1912009-11 **Sampled:** Dec-10-19 14:15 **Matrix:** Water

Sample Name: A7-MW149-191210 **Sample Location/Comments:** A7-MW149

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-24-19 14:15	

Sample ID: 1912009-12 **Sampled:** Dec-10-19 10:35 **Matrix:** Water

Sample Name: A7-TB001-191210 **Sample Location/Comments:** Trip Blank

Sample Comments:

Analysis	Hold time (days)	Expires	Comments
VOA - 8260	14	Dec-24-19 10:35	

WORK ORDER

Printed: 12/11/2019 2:30:11PM

1912009

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 2:30 pm, Dec 11, 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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-FB001-191210 (1912009-01) **Matrix: Water** **Sampled: Dec-10-19 16:30** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U	(ICV), J		2.00	ug/L	1	B19L012	Dec-12-19	Dec-12-19
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			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			25.0	"	"	"	"	"
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	"	"	"	"	"

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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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-FB001-191210 (1912009-01) **Matrix: Water** **Sampled: Dec-10-19 16:30** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Styrene	U			2.00	ug/L	1	B19L012	Dec-12-19	Dec-12-19
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	10.2	*102%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.34	*92.6%*	*84-122*	"	"	"
Toluene-d8	9.95	*99.5%*	*88-108*	"	"	"
4-Bromofluorobenzene	10.3	*103%*	*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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW103A-191210 (1912009-02RE1) **Matrix: Water** **Sampled: Dec-10-19 13:20** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
cis-1,2-Dichloroethene	**258**			10.0	ug/L	5	B19L019	Dec-13-19	Dec-14-19
1,1,1-Trichloroethane	**128**			10.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.5	*104%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.0	*99.5%*	*84-122*	"	"	"
Toluene-d8	10.4	*104%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.89	*98.9%*	*84-108*	"	"	"

A7-MW103A-191210 (1912009-02RE2) **Matrix: Water** **Sampled: Dec-10-19 13:20** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B19L026	Dec-19-19	Dec-19-19
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**	(LCS), J		2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**7.45**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**3.29**			2.00	"	"	"	"	"
1,1-Dichloroethane	**39.6**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		2.00	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**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	**3.59**			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	"	"	"	"	"

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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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW103A-191210 (1912009-02RE2) **Matrix: Water** **Sampled: Dec-10-19 13:20** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Tetrachloroethene	**11.7**			2.00	ug/L	1	B19L026	Dec-19-19	Dec-19-19
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	"	"	"	"	"
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	9.96	*99.0%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.70	*96.2%*	*84-122*	"	"	"
Toluene-d8	9.54	*95.4%*	*88-108*	"	"	"

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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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW103A-191210 (1912009-02RE2) **Matrix: Water** **Sampled: Dec-10-19 13:20** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
4-Bromofluorobenzene	8.31	Q		*83.1%*		*84-108*	*B19L026*	*Dec-19-19*	*Dec-19-19*

A7-MW103A-191210-D (1912009-03) **Matrix: Water** **Sampled: Dec-10-19 13:20** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
cis-1,2-Dichloroethene	**236**			100	ug/L	50	B19L012	Dec-12-19	Dec-12-19
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.47			*94.1%*		*73-124*	"	"	"
1,2-Dichloroethane-d4	9.17			*91.0%*		*84-122*	"	"	"
Toluene-d8	10.3			*103%*		*88-108*	"	"	"
4-Bromofluorobenzene	9.64			*96.4%*		*84-108*	"	"	"

A7-MW103A-191210-D (1912009-03RE1) **Matrix: Water** **Sampled: Dec-10-19 13:20** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICV), J		4.00	ug/L	2	B19L019	Dec-13-19	Dec-14-19
Chloromethane	**U**			4.00	"	"	"	"	"
Vinyl chloride	**U**			4.00	"	"	"	"	"
Bromomethane	**U**			4.00	"	"	"	"	"
Chloroethane	**U**			4.00	"	"	"	"	"
Trichlorofluoromethane	**U**			4.00	"	"	"	"	"
1,1-Dichloroethene	**9.62**			4.00	"	"	"	"	"
Methylene chloride	**U**			4.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			4.00	"	"	"	"	"
1,1-Dichloroethane	**46.3**			4.00	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		4.00	"	"	"	"	"
Bromochloromethane	**U**			4.00	"	"	"	"	"
Chloroform	**U**			4.00	"	"	"	"	"
1,1,1-Trichloroethane	**130**			4.00	"	"	"	"	"
Carbon tetrachloride	**U**			50.0	"	"	"	"	"
1,1-Dichloropropene	**U**			4.00	"	"	"	"	"
Benzene	**U**			4.00	"	"	"	"	"
1,2-Dichloroethane	**U**			4.00	"	"	"	"	"
Trichloroethene	**U**			4.00	"	"	"	"	"

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW103A-191210-D (1912009-03RE1) **Matrix: Water** **Sampled: Dec-10-19 13:20** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dichloropropane	**U**			4.00	ug/L	2	B19L019	Dec-13-19	Dec-14-19
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	"	"	"	"	"
Tetrachloroethene	**11.6**			4.00	"	"	"	"	"
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	"	"	"	"	"

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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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW103A-191210-D (1912009-03RE1) **Matrix: Water** **Sampled: Dec-10-19 13:20** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**U**			4.00	ug/L	2	B19L019	Dec-13-19	Dec-14-19
1,2,3-Trichlorobenzene	**U**			4.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.0	*99.4%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.4	*103%*	*84-122*	"	"	"
Toluene-d8	10.1	*101%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.06	*90.6%*	*84-108*	"	"	"

A7-MW103D-191210 (1912009-04RE1) **Matrix: Water** **Sampled: Dec-10-19 10:35** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICV), J		2.00	ug/L	1	B19L019	Dec-13-19	Dec-13-19
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	**4.16**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			25.0	"	"	"	"	"
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	"	"	"	"	"

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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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW103D-191210 (1912009-04RE1) **Matrix: Water** **Sampled: Dec-10-19 10:35** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
trans-1,3-Dichloropropene	U			2.00	ug/L	1	B19L019	Dec-13-19	Dec-13-19
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	"	"	"	"	"
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	10.0	*99.6%*	*73-124*	"	"	"

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW103D-191210 (1912009-04RE1) **Matrix: Water** **Sampled: Dec-10-19 10:35** **Received: Dec-11-19 11:05**

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

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,2-Dichloroethane-d4	9.17	*91.0%*	*84-122*	*B19L019*	*Dec-13-19*	*Dec-13-19*
Toluene-d8	9.96	*99.6%*	*88-108*	"	"	"
4-Bromofluorobenzene	10.2	*102%*	*84-108*	"	"	"

A7-MW106A-191210 (1912009-05) **Matrix: Water** **Sampled: Dec-10-19 16:00** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloroethane	**507**			100	ug/L	50	B19L012	Dec-12-19	Dec-12-19

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.0	*99.5%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.84	*97.6%*	*84-122*	"	"	"
Toluene-d8	10.3	*103%*	*88-108*	"	"	"
4-Bromofluorobenzene	10.1	*101%*	*84-108*	"	"	"

A7-MW106A-191210 (1912009-05RE1) **Matrix: Water** **Sampled: Dec-10-19 16:00** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICV), J		10.0	ug/L	5	B19L019	Dec-13-19	Dec-14-19
Chloromethane	**U**			10.0	"	"	"	"	"
Vinyl chloride	**U**			10.0	"	"	"	"	"
Bromomethane	**U**			10.0	"	"	"	"	"
Trichlorofluoromethane	**U**			10.0	"	"	"	"	"
1,1-Dichloroethene	**U**			10.0	"	"	"	"	"
Methylene chloride	**U**			10.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
1,1-Dichloroethane	**162**			10.0	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		10.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
Bromochloromethane	**U**			10.0	"	"	"	"	"
Chloroform	**U**			10.0	"	"	"	"	"
1,1,1-Trichloroethane	**70.9**			10.0	"	"	"	"	"
Carbon tetrachloride	**U**			125	"	"	"	"	"
1,1-Dichloropropene	**U**			10.0	"	"	"	"	"
Benzene	**U**			10.0	"	"	"	"	"

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW106A-191210 (1912009-05RE1) **Matrix: Water** **Sampled: Dec-10-19 16:00** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dichloroethane	**U**			10.0	ug/L	5	B19L019	Dec-13-19	Dec-14-19
Trichloroethene	**U**			10.0	"	"	"	"	"
1,2-Dichloropropane	**U**			10.0	"	"	"	"	"
Dibromomethane	**U**			10.0	"	"	"	"	"
Bromodichloromethane	**U**			10.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
Toluene	**33.6**			10.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			10.0	"	"	"	"	"
Tetrachloroethene	**U**			10.0	"	"	"	"	"
1,3-Dichloropropane	**U**			10.0	"	"	"	"	"
Dibromochloromethane	**U**			10.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			10.0	"	"	"	"	"
Chlorobenzene	**U**			10.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
Ethylbenzene	**43.2**			10.0	"	"	"	"	"
m+p-Xylene	**132**			20.0	"	"	"	"	"
o-Xylene	**90.2**			10.0	"	"	"	"	"
Styrene	**U**			10.0	"	"	"	"	"
Bromoform	**U**			10.0	"	"	"	"	"
Isopropylbenzene	**14.7**			10.0	"	"	"	"	"
Bromobenzene	**U**			10.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			10.0	"	"	"	"	"
n-Propylbenzene	**42.5**			10.0	"	"	"	"	"
2-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**109**			10.0	"	"	"	"	"
4-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
tert-Butylbenzene	**U**			10.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**496**			10.0	"	"	"	"	"
sec-Butylbenzene	**U**			10.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			10.0	"	"	"	"	"
p-Isopropyltoluene	**14.9**			10.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			10.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			10.0	"	"	"	"	"
n-Butylbenzene	**11.2**			10.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			10.0	"	"	"	"	"

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW106A-191210 (1912009-05RE1) **Matrix: Water** **Sampled: Dec-10-19 16:00** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,4-Trichlorobenzene	**U**			10.0	ug/L	5	B19L019	Dec-13-19	Dec-14-19
Hexachlorobutadiene	**U**			10.0	"	"	"	"	"
Naphthalene	**31.2**			10.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			10.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.1	*99.9%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.66	*95.8%*	*84-122*	"	"	"
Toluene-d8	9.74	*97.4%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.84	*98.4%*	*84-108*	"	"	"

A7-MW112B-191210 (1912009-06RE1) **Matrix: Water** **Sampled: Dec-10-19 09:40** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICV), J		2.00	ug/L	1	B19L019	Dec-13-19	Dec-14-19
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	**2.86**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**6.59**			2.00	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			25.0	"	"	"	"	"
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	"	"	"	"	"

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW112B-191210 (1912009-06RE1) **Matrix: Water** **Sampled: Dec-10-19 09:40** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
cis-1,3-Dichloropropene	U			2.00	ug/L	1	B19L019	Dec-13-19	Dec-14-19
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	"	"	"	"	"
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	"	"	"	"	"

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW112B-191210 (1912009-06RE1) **Matrix: Water** **Sampled: Dec-10-19 09:40** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.47			*94.1%*		*73-124*	*B19L019*	*Dec-13-19*	*Dec-14-19*
1,2-Dichloroethane-d4	9.46			*93.8%*		*84-122*	*"*	*"*	*"*
Toluene-d8	9.81			*98.1%*		*88-108*	*"*	*"*	*"*
4-Bromofluorobenzene	9.46			*94.6%*		*84-108*	*"*	*"*	*"*

A7-MW112C-191210 (1912009-07RE1) **Matrix: Water** **Sampled: Dec-10-19 09:55** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICV), J		2.00	ug/L	1	B19L019	Dec-13-19	Dec-14-19
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**			25.0	"	"	"	"	"
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	"	"	"	"	"

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW112C-191210 (1912009-07RE1) **Matrix: Water** **Sampled: Dec-10-19 09:55** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Tetrachloroethene	U			2.00	ug/L	1	B19L019	Dec-13-19	Dec-14-19
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	"	"	"	"	"
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	9.76	*97.0%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.45	*93.8%*	*84-122*	"	"	"
Toluene-d8	9.85	*98.5%*	*88-108*	"	"	"

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW112C-191210 (1912009-07RE1) **Matrix: Water** **Sampled: Dec-10-19 09:55** **Received: Dec-11-19 11:05**

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

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
4-Bromofluorobenzene	10.5	*105%*	*84-108*	*B19L019*	*Dec-13-19*	*Dec-14-19*

A7-MW134B-191210 (1912009-08) **Matrix: Water** **Sampled: Dec-10-19 14:30** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Vinyl chloride	**585**			100	ug/L	50	B19L012	Dec-12-19	Dec-12-19
1,1-Dichloroethane	**1420**			100	"	"	"	"	"
cis-1,2-Dichloroethene	**2540**			100	"	"	"	"	"
1,1,1-Trichloroethane	**1600**			100	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.98	*99.2%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.53	*94.5%*	*84-122*	"	"	"
Toluene-d8	10.1	*101%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.74	*97.4%*	*84-108*	"	"	"

A7-MW134B-191210 (1912009-08RE2) **Matrix: Water** **Sampled: Dec-10-19 14:30** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			10.0	ug/L	5	B19L026	Dec-13-19	Dec-20-19
Chloromethane	**U**			10.0	"	"	"	"	"
Bromomethane	**U**	(LCS), J		10.0	"	"	"	"	"
Chloroethane	**286**			10.0	"	"	"	"	"
Trichlorofluoromethane	**U**			10.0	"	"	"	"	"
1,1-Dichloroethene	**48.2**			10.0	"	"	"	"	"
Methylene chloride	**U**			10.0	"	"	"	"	"
trans-1,2-Dichloroethene	**45.9**			10.0	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		10.0	"	"	"	"	"
Bromochloromethane	**U**			10.0	"	"	"	"	"
Chloroform	**U**			10.0	"	"	"	"	"
Carbon tetrachloride	**U**			10.0	"	"	"	"	"
1,1-Dichloropropene	**U**			10.0	"	"	"	"	"
Benzene	**U**			10.0	"	"	"	"	"
1,2-Dichloroethane	**U**			10.0	"	"	"	"	"
Trichloroethene	**18.8**			10.0	"	"	"	"	"

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW134B-191210 (1912009-08RE2) **Matrix: Water** **Sampled: Dec-10-19 14:30** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dichloropropane	**U**			10.0	ug/L	5	B19L026	Dec-13-19	Dec-20-19
Dibromomethane	**U**			10.0	"	"	"	"	"
Bromodichloromethane	**U**			10.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
Toluene	**44.5**			10.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			10.0	"	"	"	"	"
Tetrachloroethene	**12.7**			10.0	"	"	"	"	"
1,3-Dichloropropane	**U**			10.0	"	"	"	"	"
Dibromochloromethane	**U**			10.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			10.0	"	"	"	"	"
Chlorobenzene	**U**			10.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
Ethylbenzene	**69.4**			10.0	"	"	"	"	"
m+p-Xylene	**133**			20.0	"	"	"	"	"
o-Xylene	**197**			10.0	"	"	"	"	"
Styrene	**28.9**			10.0	"	"	"	"	"
Bromoform	**U**			10.0	"	"	"	"	"
Isopropylbenzene	**14.8**			10.0	"	"	"	"	"
Bromobenzene	**U**			10.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			10.0	"	"	"	"	"
n-Propylbenzene	**36.3**			10.0	"	"	"	"	"
2-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**64.4**			10.0	"	"	"	"	"
4-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
tert-Butylbenzene	**U**			10.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**319**			10.0	"	"	"	"	"
sec-Butylbenzene	**U**			10.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			10.0	"	"	"	"	"
p-Isopropyltoluene	**11.1**			10.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			10.0	"	"	"	"	"
1,2-Dichlorobenzene	**20.4**			10.0	"	"	"	"	"
n-Butylbenzene	**13.2**			10.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			10.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			10.0	"	"	"	"	"
Hexachlorobutadiene	**U**			10.0	"	"	"	"	"

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW134B-191210 (1912009-08RE2) **Matrix: Water** **Sampled: Dec-10-19 14:30** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	**20.9**			10.0	ug/L	5	B19L026	Dec-13-19	Dec-20-19
1,2,3-Trichlorobenzene	**U**			10.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	11.7	*116%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.3	*103%*	*84-122*	"	"	"
Toluene-d8	9.83	*98.3%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.76	*97.6%*	*84-108*	"	"	"

A7-MW134C-191210 (1912009-09RE1) **Matrix: Water** **Sampled: Dec-10-19 11:55** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICV), J		2.00	ug/L	1	B19L019	Dec-13-19	Dec-14-19
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**2.57**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**18.3**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**6.69**			2.00	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**10.1**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			25.0	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**3.93**			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	"	"	"	"	"

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW134C-191210 (1912009-09RE1) **Matrix: Water** **Sampled: Dec-10-19 11:55** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
trans-1,3-Dichloropropene	**U**			2.00	ug/L	1	B19L019	Dec-13-19	Dec-14-19
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**3.57**			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	"	"	"	"	"
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	10.2	*102%*	*73-124*	"	"	"

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW134C-191210 (1912009-09RE1) **Matrix: Water** **Sampled: Dec-10-19 11:55** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,2-Dichloroethane-d4	9.95			*98.7%*		*84-122*	*B19L019*	*Dec-13-19*	*Dec-14-19*
Toluene-d8	10.1			*101%*		*88-108*	*"*	*"*	*"*
4-Bromofluorobenzene	9.80			*98.0%*		*84-108*	*"*	*"*	*"*

A7-MW148-191210 (1912009-10RE1) **Matrix: Water** **Sampled: Dec-10-19 11:35** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICV), J		2.00	ug/L	1	B19L019	Dec-13-19	Dec-14-19
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**			25.0	"	"	"	"	"
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	"	"	"	"	"

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW148-191210 (1912009-10RE1) **Matrix: Water** **Sampled: Dec-10-19 11:35** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,3-Dichloropropane	U			2.00	ug/L	1	B19L019	Dec-13-19	Dec-14-19
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	"	"	"	"	"
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	9.74	*96.8%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.91	*98.3%*	*84-122*	"	"	"
Toluene-d8	9.91	*99.1%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.73	*97.3%*	*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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW149-191210 (1912009-11RE1) **Matrix: Water** **Sampled: Dec-10-19 14:15** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICV), J		2.00	ug/L	1	B19L019	Dec-13-19	Dec-13-19
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	**2.07**			2.00	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			25.0	"	"	"	"	"
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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-MW149-191210 (1912009-11RE1) **Matrix: Water** **Sampled: Dec-10-19 14:15** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Styrene	U			2.00	ug/L	1	B19L019	Dec-13-19	Dec-13-19
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	9.79	*97.3%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.32	*92.4%*	*84-122*	"	"	"
Toluene-d8	9.82	*98.2%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.75	*97.5%*	*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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-TB001-191210 (1912009-12) **Matrix: Water** **Sampled: Dec-10-19 10:35** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	U	(ICV), J		2.00	ug/L	1	B19L012	Dec-12-19	Dec-13-19
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			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			25.0	"	"	"	"	"
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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

A7-TB001-191210 (1912009-12) **Matrix: Water** **Sampled: Dec-10-19 10:35** **Received: Dec-11-19 11:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromoform	U			2.00	ug/L	1	B19L012	Dec-12-19	Dec-13-19
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	9.58	*95.2%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.47	*94.0%*	*84-122*	"	"	"
Toluene-d8	9.62	*96.2%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.57	*95.7%*	*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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L012 - Volatiles

Blank (B19L012-BLK1) **Prepared & Analyzed: Dec-12-19**

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L012 - Volatiles

Blank (B19L012-BLK1) **Prepared & Analyzed: Dec-12-19**

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	*10.1*				*"*	*10.06*		*100%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*10.1*				*"*	*10.08*		*100%*	*84-122*		
Surrogate: Toluene-d8	*10.3*				*"*	*10.00*		*103%*	*88-108*		
Surrogate: 4-Bromofluorobenzene	*9.65*				*"*	*10.00*		*96.5%*	*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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L012 - Volatiles

Blank (B19L012-BLK2) **Prepared & Analyzed: Dec-12-19**

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L012 - Volatiles

Blank (B19L012-BLK2) **Prepared & Analyzed: Dec-12-19**

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	*9.69*				*"*	*10.06*		*96.3%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*9.47*				*"*	*10.08*		*93.9%*	*84-122*		
Surrogate: Toluene-d8	*10.3*				*"*	*10.00*		*103%*	*88-108*		
Surrogate: 4-Bromofluorobenzene	*8.92*				*"*	*10.00*		*89.2%*	*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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L012 - Volatiles

LCS (B19L012-BS1) **Prepared & Analyzed: Dec-12-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**29.2**			2.00	ug/L	25.02		117%	70-130		
Chloromethane	**26.3**			2.00	"	24.98		105%	70-130		
Vinyl chloride	**27.8**			2.00	"	24.88		112%	70-130		
Bromomethane	**27.7**			2.00	"	24.88		111%	70-130		
Chloroethane	**26.6**			2.00	"	25.02		106%	70-130		
Trichlorofluoromethane	**28.0**			2.00	"	24.86		113%	70-130		
1,1-Dichloroethene	**26.3**			2.00	"	25.00		105%	70-130		
Methylene chloride	**25.1**			2.00	"	25.00		101%	70-130		
trans-1,2-Dichloroethene	**25.7**			2.00	"	25.00		103%	70-130		
1,1-Dichloroethane	**26.9**			2.00	"	25.00		107%	70-130		
2,2-Dichloropropane	**27.7**			2.00	"	25.00		111%	70-130		
cis-1,2-Dichloroethene	**25.7**			2.00	"	25.00		103%	70-130		
Bromochloromethane	**26.5**			2.00	"	25.00		106%	70-130		
Chloroform	**26.3**			2.00	"	25.00		105%	70-130		
1,1,1-Trichloroethane	**25.8**			2.00	"	25.00		103%	70-130		
Carbon tetrachloride	**26.3**			2.00	"	25.00		105%	70-130		
1,1-Dichloropropene	**25.5**			2.00	"	25.00		102%	70-130		
Benzene	**25.5**			2.00	"	25.00		102%	70-130		
1,2-Dichloroethane	**26.1**			2.00	"	25.00		104%	70-130		
Trichloroethene	**26.0**			2.00	"	25.00		104%	70-130		
1,2-Dichloropropane	**25.2**			2.00	"	25.00		101%	70-130		
Dibromomethane	**25.1**			2.00	"	25.00		100%	70-130		
Bromodichloromethane	**26.7**			2.00	"	25.00		107%	70-130		
cis-1,3-Dichloropropene	**26.8**			2.00	"	25.00		107%	70-130		
Toluene	**25.0**			2.00	"	25.00		99.9%	70-130		
trans-1,3-Dichloropropene	**27.0**			2.00	"	25.00		108%	70-130		
1,1,2-Trichloroethane	**26.1**			2.00	"	25.00		104%	70-130		
Tetrachloroethene	**27.7**			2.00	"	25.00		111%	70-130		
1,3-Dichloropropane	**27.2**			2.00	"	25.00		109%	70-130		
Dibromochloromethane	**26.7**			2.00	"	25.00		107%	70-130		
1,2-Dibromoethane (EDB)	**26.0**			2.00	"	25.00		104%	70-130		
Chlorobenzene	**26.2**			2.00	"	25.00		105%	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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L012 - Volatiles

LCS (B19L012-BS1) **Prepared & Analyzed: Dec-12-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	**25.6**			2.00	ug/L	25.00		102%	70-130		
Ethylbenzene	**26.8**			2.00	"	25.00		107%	70-130		
m+p-Xylene	**52.3**			4.00	"	50.00		105%	70-130		
o-Xylene	**26.6**			2.00	"	25.00		107%	70-130		
Styrene	**25.9**			2.00	"	25.00		104%	70-130		
Bromoform	**25.5**			2.00	"	25.00		102%	70-130		
Isopropylbenzene	**26.6**			2.00	"	25.00		106%	70-130		
Bromobenzene	**26.8**			2.00	"	25.00		107%	70-130		
1,2,3-Trichloropropane	**26.1**			2.00	"	25.00		104%	70-130		
n-Propylbenzene	**26.6**			2.00	"	25.00		107%	70-130		
2-Chlorotoluene	**26.4**			2.00	"	25.00		105%	70-130		
1,3,5-Trimethylbenzene	**26.2**			2.00	"	25.00		105%	70-130		
4-Chlorotoluene	**25.5**			2.00	"	25.00		102%	70-130		
1,1,2,2-Tetrachloroethane	**26.9**			2.00	"	25.00		107%	70-130		
tert-Butylbenzene	**27.7**			2.00	"	25.00		111%	70-130		
1,2,4-Trimethylbenzene	**26.1**			2.00	"	25.00		104%	70-130		
sec-Butylbenzene	**27.5**			2.00	"	25.00		110%	70-130		
1,3-Dichlorobenzene	**27.0**			2.00	"	25.00		108%	70-130		
p-Isopropyltoluene	**26.3**			2.00	"	25.00		105%	70-130		
1,4-Dichlorobenzene	**25.7**			2.00	"	25.00		103%	70-130		
1,2-Dichlorobenzene	**26.5**			2.00	"	25.00		106%	70-130		
n-Butylbenzene	**26.5**			2.00	"	25.00		106%	70-130		
1,2-Dibromo-3-chloropropane	**26.1**			2.00	"	25.00		105%	70-130		
1,2,4-Trichlorobenzene	**28.0**			2.00	"	25.00		112%	70-130		
Hexachlorobutadiene	**28.0**			2.00	"	25.00		112%	70-130		
Naphthalene	**27.0**			2.00	"	25.00		108%	70-130		
1,2,3-Trichlorobenzene	**25.4**			2.00	"	25.00		102%	70-130		
Surrogate: Dibromofluoromethane	*10.4*				*"*	*10.06*		*103%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*9.53*				*"*	*10.08*		*94.5%*	*84-122*		
Surrogate: Toluene-d8	*9.95*				*"*	*10.00*		*99.5%*	*88-108*		
Surrogate: 4-Bromofluorobenzene	*9.72*				*"*	*10.00*		*97.2%*	*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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L012 - Volatiles

LCS Dup (B19L012-BSD1) **Prepared: Dec-12-19 Analyzed: Dec-13-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**24.3**			2.00	ug/L	25.02		97.0%	70-130	18.4	60
Chloromethane	**26.8**			2.00	"	24.98		107%	70-130	1.88	60
Vinyl chloride	**26.0**			2.00	"	24.88		104%	70-130	7.04	60
Bromomethane	**24.7**			2.00	"	24.88		99.1%	70-130	11.7	60
Chloroethane	**24.5**			2.00	"	25.02		97.9%	70-130	8.17	60
Trichlorofluoromethane	**25.0**			2.00	"	24.86		101%	70-130	11.4	60
1,1-Dichloroethene	**23.8**			2.00	"	25.00		95.3%	70-130	9.77	60
Methylene chloride	**23.1**			2.00	"	25.00		92.5%	70-130	8.31	60
trans-1,2-Dichloroethene	**23.9**			2.00	"	25.00		95.5%	70-130	7.23	60
1,1-Dichloroethane	**24.7**			2.00	"	25.00		99.0%	70-130	8.19	60
2,2-Dichloropropane	**18.5**			2.00	"	25.00		73.8%	70-130	39.9	60
cis-1,2-Dichloroethene	**24.0**			2.00	"	25.00		95.9%	70-130	6.74	60
Bromochloromethane	**24.8**			2.00	"	25.00		99.2%	70-130	6.73	60
Chloroform	**24.8**			2.00	"	25.00		99.0%	70-130	6.12	60
1,1,1-Trichloroethane	**23.6**			2.00	"	25.00		94.5%	70-130	8.84	60
Carbon tetrachloride	**23.5**			2.00	"	25.00		93.9%	70-130	11.5	60
1,1-Dichloropropene	**23.2**			2.00	"	25.00		92.9%	70-130	9.22	60
Benzene	**23.4**			2.00	"	25.00		93.5%	70-130	8.50	60
1,2-Dichloroethane	**23.6**			2.00	"	25.00		94.2%	70-130	10.3	60
Trichloroethene	**23.9**			2.00	"	25.00		95.5%	70-130	8.55	60
1,2-Dichloropropane	**23.5**			2.00	"	25.00		93.9%	70-130	7.29	60
Dibromomethane	**23.7**			2.00	"	25.00		95.0%	70-130	5.61	60
Bromodichloromethane	**24.3**			2.00	"	25.00		97.1%	70-130	9.34	60
cis-1,3-Dichloropropene	**24.1**			2.00	"	25.00		96.4%	70-130	10.7	60
Toluene	**23.2**			2.00	"	25.00		92.8%	70-130	7.38	60
trans-1,3-Dichloropropene	**24.0**			2.00	"	25.00		95.9%	70-130	12.0	60
1,1,2-Trichloroethane	**25.5**			2.00	"	25.00		102%	70-130	2.11	60
Tetrachloroethene	**25.5**			2.00	"	25.00		102%	70-130	8.22	60
1,3-Dichloropropane	**26.1**			2.00	"	25.00		105%	70-130	4.01	60
Dibromochloromethane	**25.1**			2.00	"	25.00		100%	70-130	6.01	60
1,2-Dibromoethane (EDB)	**25.4**			2.00	"	25.00		101%	70-130	2.48	60
Chlorobenzene	**25.5**			2.00	"	25.00		102%	70-130	2.66	60

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L012 - Volatiles

LCS Dup (B19L012-BSD1) **Prepared: Dec-12-19 Analyzed: Dec-13-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	**24.8**			2.00	ug/L	25.00		99.1%	70-130	3.38	60
Ethylbenzene	**26.0**			2.00	"	25.00		104%	70-130	3.10	60
m+p-Xylene	**51.7**			4.00	"	50.00		103%	70-130	1.21	60
o-Xylene	**25.8**			2.00	"	25.00		103%	70-130	3.20	60
Styrene	**26.2**			2.00	"	25.00		105%	70-130	1.05	60
Bromoform	**24.5**			2.00	"	25.00		98.1%	70-130	3.90	60
Isopropylbenzene	**25.8**			2.00	"	25.00		103%	70-130	2.97	60
Bromobenzene	**26.3**			2.00	"	25.00		105%	70-130	1.75	60
1,2,3-Trichloropropane	**26.3**			2.00	"	25.00		105%	70-130	0.900	60
n-Propylbenzene	**25.3**			2.00	"	25.00		101%	70-130	5.22	60
2-Chlorotoluene	**25.7**			2.00	"	25.00		103%	70-130	2.62	60
1,3,5-Trimethylbenzene	**25.3**			2.00	"	25.00		101%	70-130	3.46	60
4-Chlorotoluene	**25.0**			2.00	"	25.00		100%	70-130	2.09	60
1,1,2,2-Tetrachloroethane	**24.4**			2.00	"	25.00		97.7%	70-130	9.47	60
tert-Butylbenzene	**24.9**			2.00	"	25.00		99.5%	70-130	10.7	60
1,2,4-Trimethylbenzene	**23.2**			2.00	"	25.00		92.8%	70-130	11.7	60
sec-Butylbenzene	**24.1**			2.00	"	25.00		96.4%	70-130	13.1	60
1,3-Dichlorobenzene	**24.6**			2.00	"	25.00		98.4%	70-130	9.44	60
p-Isopropyltoluene	**23.5**			2.00	"	25.00		94.0%	70-130	11.3	60
1,4-Dichlorobenzene	**23.5**			2.00	"	25.00		94.1%	70-130	8.91	60
1,2-Dichlorobenzene	**24.0**			2.00	"	25.00		96.1%	70-130	9.95	60
n-Butylbenzene	**22.7**			2.00	"	25.00		90.8%	70-130	15.4	60
1,2-Dibromo-3-chloropropane	**24.5**			2.00	"	25.00		98.0%	70-130	6.48	60
1,2,4-Trichlorobenzene	**24.0**			2.00	"	25.00		95.8%	70-130	15.5	60
Hexachlorobutadiene	**23.1**			2.00	"	25.00		92.4%	70-130	19.2	60
Naphthalene	**24.7**			2.00	"	25.00		98.7%	70-130	9.10	60
1,2,3-Trichlorobenzene	**22.2**			2.00	"	25.00		88.6%	70-130	13.6	60
Surrogate: Dibromofluoromethane	*9.46*				*"*	*10.06*		*94.0%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*9.91*				*"*	*10.08*		*98.3%*	*84-122*		
Surrogate: Toluene-d8	*9.81*				*"*	*10.00*		*98.1%*	*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
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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L019 - Volatiles

Blank (B19L019-BLK1) **Prepared & Analyzed: Dec-13-19**

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
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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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L019 - Volatiles

Blank (B19L019-BLK1) **Prepared & Analyzed: Dec-13-19**

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	*9.87*				*"*	*10.06*		*98.1%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*9.90*				*"*	*10.08*		*98.2%*	*84-122*		
Surrogate: Toluene-d8	*10.1*				*"*	*10.00*		*101%*	*88-108*		
Surrogate: 4-Bromofluorobenzene	*9.65*				*"*	*10.00*		*96.5%*	*84-108*		

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L019 - Volatiles

Blank (B19L019-BLK2) **Prepared & Analyzed: Dec-13-19**

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L019 - Volatiles

Blank (B19L019-BLK2) **Prepared & Analyzed: Dec-13-19**

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*		*99.8%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*9.33*				*"*	*10.08*		*92.5%*	*84-122*		
Surrogate: Toluene-d8	*9.42*				*"*	*10.00*		*94.2%*	*88-108*		
Surrogate: 4-Bromofluorobenzene	*9.24*				*"*	*10.00*		*92.4%*	*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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L019 - Volatiles

LCS (B19L019-BS1) **Prepared: Dec-13-19 Analyzed: Dec-14-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**24.6**			2.00	ug/L	25.02		98.5%	70-130		
Chloromethane	**25.9**			2.00	"	24.98		104%	70-130		
Vinyl chloride	**27.3**			2.00	"	24.88		110%	70-130		
Bromomethane	**21.2**			2.00	"	24.88		85.3%	70-130		
Chloroethane	**24.7**			2.00	"	25.02		98.9%	70-130		
Trichlorofluoromethane	**25.7**			2.00	"	24.86		104%	70-130		
1,1-Dichloroethene	**22.1**			2.00	"	25.00		88.3%	70-130		
Methylene chloride	**21.7**			2.00	"	25.00		86.7%	70-130		
trans-1,2-Dichloroethene	**22.0**			2.00	"	25.00		88.0%	70-130		
1,1-Dichloroethane	**22.5**			2.00	"	25.00		90.1%	70-130		
2,2-Dichloropropane	**15.6**	Q		2.00	"	25.00		62.6%	70-130		
cis-1,2-Dichloroethene	**22.9**			2.00	"	25.00		91.6%	70-130		
Bromochloromethane	**23.0**			2.00	"	25.00		92.2%	70-130		
Chloroform	**23.3**			2.00	"	25.00		93.1%	70-130		
1,1,1-Trichloroethane	**22.0**			2.00	"	25.00		87.8%	70-130		
Carbon tetrachloride	**21.1**			2.00	"	25.00		84.5%	70-130		
1,1-Dichloropropene	**21.3**			2.00	"	25.00		85.1%	70-130		
Benzene	**22.4**			2.00	"	25.00		89.7%	70-130		
1,2-Dichloroethane	**22.6**			2.00	"	25.00		90.2%	70-130		
Trichloroethene	**22.5**			2.00	"	25.00		90.0%	70-130		
1,2-Dichloropropane	**22.7**			2.00	"	25.00		90.9%	70-130		
Dibromomethane	**23.5**			2.00	"	25.00		94.1%	70-130		
Bromodichloromethane	**22.9**			2.00	"	25.00		91.6%	70-130		
cis-1,3-Dichloropropene	**22.1**			2.00	"	25.00		88.4%	70-130		
Toluene	**21.9**			2.00	"	25.00		87.6%	70-130		
trans-1,3-Dichloropropene	**20.7**			2.00	"	25.00		82.7%	70-130		
1,1,2-Trichloroethane	**23.1**			2.00	"	25.00		92.5%	70-130		
Tetrachloroethene	**20.3**			2.00	"	25.00		81.4%	70-130		
1,3-Dichloropropane	**23.3**			2.00	"	25.00		93.4%	70-130		
Dibromochloromethane	**21.7**			2.00	"	25.00		86.9%	70-130		
1,2-Dibromoethane (EDB)	**23.5**			2.00	"	25.00		94.1%	70-130		
Chlorobenzene	**21.2**			2.00	"	25.00		84.9%	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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L019 - Volatiles

LCS (B19L019-BS1) **Prepared: Dec-13-19 Analyzed: Dec-14-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	**20.9**			2.00	ug/L	25.00		83.8%	70-130		
Ethylbenzene	**21.3**			2.00	"	25.00		85.1%	70-130		
m+p-Xylene	**42.3**			4.00	"	50.00		84.5%	70-130		
o-Xylene	**21.1**			2.00	"	25.00		84.3%	70-130		
Styrene	**22.2**			2.00	"	25.00		88.7%	70-130		
Bromoform	**21.2**			2.00	"	25.00		84.9%	70-130		
Isopropylbenzene	**20.8**			2.00	"	25.00		83.1%	70-130		
Bromobenzene	**22.3**			2.00	"	25.00		89.1%	70-130		
1,2,3-Trichloropropane	**23.4**			2.00	"	25.00		93.4%	70-130		
n-Propylbenzene	**20.6**			2.00	"	25.00		82.4%	70-130		
2-Chlorotoluene	**21.3**			2.00	"	25.00		85.4%	70-130		
1,3,5-Trimethylbenzene	**20.8**			2.00	"	25.00		83.2%	70-130		
4-Chlorotoluene	**21.0**			2.00	"	25.00		83.8%	70-130		
1,1,2,2-Tetrachloroethane	**24.9**			2.00	"	25.00		99.8%	70-130		
tert-Butylbenzene	**23.1**			2.00	"	25.00		92.5%	70-130		
1,2,4-Trimethylbenzene	**22.4**			2.00	"	25.00		89.6%	70-130		
sec-Butylbenzene	**21.4**			2.00	"	25.00		85.7%	70-130		
1,3-Dichlorobenzene	**23.2**			2.00	"	25.00		92.9%	70-130		
p-Isopropyltoluene	**21.7**			2.00	"	25.00		86.8%	70-130		
1,4-Dichlorobenzene	**23.4**			2.00	"	25.00		93.6%	70-130		
1,2-Dichlorobenzene	**23.3**			2.00	"	25.00		93.1%	70-130		
n-Butylbenzene	**21.1**			2.00	"	25.00		84.4%	70-130		
1,2-Dibromo-3-chloropropane	**25.1**			2.00	"	25.00		100%	70-130		
1,2,4-Trichlorobenzene	**24.1**			2.00	"	25.00		96.4%	70-130		
Hexachlorobutadiene	**20.1**			2.00	"	25.00		80.4%	70-130		
Naphthalene	**24.8**			2.00	"	25.00		99.4%	70-130		
1,2,3-Trichlorobenzene	**22.3**			2.00	"	25.00		89.2%	70-130		
Surrogate: Dibromofluoromethane	*10.2*				*"*	*10.06*		*102%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*9.11*				*"*	*10.08*		*90.4%*	*84-122*		
Surrogate: Toluene-d8	*9.99*				*"*	*10.00*		*99.9%*	*88-108*		
Surrogate: 4-Bromofluorobenzene	*9.62*				*"*	*10.00*		*96.2%*	*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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L019 - Volatiles

LCS Dup (B19L019-BSD1) **Prepared: Dec-13-19 Analyzed: Dec-14-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**25.5**			2.00	ug/L	25.02		102%	70-130	3.43	60
Chloromethane	**26.5**			2.00	"	24.98		106%	70-130	2.27	60
Vinyl chloride	**26.7**			2.00	"	24.88		107%	70-130	2.35	60
Bromomethane	**21.7**			2.00	"	24.88		87.2%	70-130	2.25	60
Chloroethane	**25.4**			2.00	"	25.02		102%	70-130	2.67	60
Trichlorofluoromethane	**26.5**			2.00	"	24.86		107%	70-130	2.92	60
1,1-Dichloroethene	**21.2**			2.00	"	25.00		84.7%	70-130	4.15	60
Methylene chloride	**21.3**			2.00	"	25.00		85.3%	70-130	1.63	60
trans-1,2-Dichloroethene	**21.7**			2.00	"	25.00		87.0%	70-130	1.20	60
1,1-Dichloroethane	**22.6**			2.00	"	25.00		90.4%	70-130	0.337	60
2,2-Dichloropropane	**9.53**	Q		2.00	"	25.00		38.1%	70-130	48.6	60
cis-1,2-Dichloroethene	**23.0**			2.00	"	25.00		92.0%	70-130	0.505	60
Bromochloromethane	**22.4**			2.00	"	25.00		89.7%	70-130	2.79	60
Chloroform	**22.6**			2.00	"	25.00		90.6%	70-130	2.76	60
1,1,1-Trichloroethane	**21.1**			2.00	"	25.00		84.3%	70-130	4.09	60
Carbon tetrachloride	**20.7**			2.00	"	25.00		83.0%	70-130	1.79	60
1,1-Dichloropropene	**20.2**			2.00	"	25.00		80.9%	70-130	5.04	60
Benzene	**21.6**			2.00	"	25.00		86.4%	70-130	3.68	60
1,2-Dichloroethane	**22.7**			2.00	"	25.00		90.9%	70-130	0.777	60
Trichloroethene	**21.8**			2.00	"	25.00		87.4%	70-130	2.91	60
1,2-Dichloropropane	**22.0**			2.00	"	25.00		88.0%	70-130	3.24	60
Dibromomethane	**22.5**			2.00	"	25.00		90.0%	70-130	4.53	60
Bromodichloromethane	**22.5**			2.00	"	25.00		90.1%	70-130	1.63	60
cis-1,3-Dichloropropene	**19.9**			2.00	"	25.00		79.5%	70-130	10.6	60
Toluene	**21.5**			2.00	"	25.00		86.1%	70-130	1.81	60
trans-1,3-Dichloropropene	**19.6**			2.00	"	25.00		78.3%	70-130	5.49	60
1,1,2-Trichloroethane	**23.9**			2.00	"	25.00		95.6%	70-130	3.31	60
Tetrachloroethene	**20.9**			2.00	"	25.00		83.4%	70-130	2.49	60
1,3-Dichloropropane	**24.1**			2.00	"	25.00		96.5%	70-130	3.25	60
Dibromochloromethane	**21.9**			2.00	"	25.00		87.8%	70-130	0.971	60
1,2-Dibromoethane (EDB)	**23.6**			2.00	"	25.00		94.3%	70-130	0.161	60
Chlorobenzene	**22.2**			2.00	"	25.00		88.7%	70-130	4.38	60

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L019 - Volatiles

LCS Dup (B19L019-BSD1) **Prepared: Dec-13-19 Analyzed: Dec-14-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	**21.9**			2.00	ug/L	25.00		87.6%	70-130	4.48	60
Ethylbenzene	**21.1**			2.00	"	25.00		84.4%	70-130	0.783	60
m+p-Xylene	**43.0**			4.00	"	50.00		86.0%	70-130	1.73	60
o-Xylene	**21.8**			2.00	"	25.00		87.2%	70-130	3.38	60
Styrene	**22.2**			2.00	"	25.00		88.7%	70-130	0.0631	60
Bromoform	**22.8**			2.00	"	25.00		91.1%	70-130	7.08	60
Isopropylbenzene	**21.4**			2.00	"	25.00		85.5%	70-130	2.83	60
Bromobenzene	**23.7**			2.00	"	25.00		94.7%	70-130	6.06	60
1,2,3-Trichloropropane	**24.4**			2.00	"	25.00		97.6%	70-130	4.36	60
n-Propylbenzene	**21.3**			2.00	"	25.00		85.4%	70-130	3.56	60
2-Chlorotoluene	**22.1**			2.00	"	25.00		88.2%	70-130	3.33	60
1,3,5-Trimethylbenzene	**21.2**			2.00	"	25.00		85.0%	70-130	2.14	60
4-Chlorotoluene	**21.4**			2.00	"	25.00		85.7%	70-130	2.16	60
1,1,2,2-Tetrachloroethane	**23.5**			2.00	"	25.00		94.0%	70-130	5.92	60
tert-Butylbenzene	**22.4**			2.00	"	25.00		89.4%	70-130	3.42	60
1,2,4-Trimethylbenzene	**22.2**			2.00	"	25.00		88.6%	70-130	1.09	60
sec-Butylbenzene	**21.8**			2.00	"	25.00		87.1%	70-130	1.61	60
1,3-Dichlorobenzene	**22.5**			2.00	"	25.00		90.0%	70-130	3.20	60
p-Isopropyltoluene	**21.0**			2.00	"	25.00		84.0%	70-130	3.24	60
1,4-Dichlorobenzene	**22.3**			2.00	"	25.00		89.1%	70-130	4.92	60
1,2-Dichlorobenzene	**23.0**			2.00	"	25.00		91.9%	70-130	1.30	60
n-Butylbenzene	**20.2**			2.00	"	25.00		80.9%	70-130	4.25	60
1,2-Dibromo-3-chloropropane	**24.9**			2.00	"	25.00		99.4%	70-130	1.04	60
1,2,4-Trichlorobenzene	**22.1**			2.00	"	25.00		88.3%	70-130	8.68	60
Hexachlorobutadiene	**19.2**			2.00	"	25.00		76.9%	70-130	4.42	60
Naphthalene	**24.6**			2.00	"	25.00		98.6%	70-130	0.776	60
1,2,3-Trichlorobenzene	**21.5**			2.00	"	25.00		85.8%	70-130	3.90	60
Surrogate: Dibromofluoromethane	*9.57*				*"*	*10.06*		*95.1%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*9.61*				*"*	*10.08*		*95.3%*	*84-122*		
Surrogate: Toluene-d8	*9.63*				*"*	*10.00*		*96.3%*	*88-108*		
Surrogate: 4-Bromofluorobenzene	*10.1*				*"*	*10.00*		*101%*	*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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L026 - Volatiles

Blank (B19L026-BLK1) **Prepared & Analyzed: Dec-19-19**

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L026 - Volatiles

Blank (B19L026-BLK1) **Prepared & Analyzed: Dec-19-19**

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	*11.2*				*"*	*10.06*		*111%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*9.65*				*"*	*10.08*		*95.8%*	*84-122*		
Surrogate: Toluene-d8	*10.5*				*"*	*10.00*		*105%*	*88-108*		
Surrogate: 4-Bromofluorobenzene	*9.44*				*"*	*10.00*		*94.4%*	*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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L026 - Volatiles

Blank (B19L026-BLK2) **Prepared & Analyzed: Dec-19-19**

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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L026 - Volatiles

Blank (B19L026-BLK2) **Prepared & Analyzed: Dec-19-19**

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	*10.2*				*"*	*10.06*		*102%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*9.88*				*"*	*10.08*		*98.0%*	*84-122*		
Surrogate: Toluene-d8	*9.97*				*"*	*10.00*		*99.7%*	*88-108*		
Surrogate: 4-Bromofluorobenzene	*8.73*				*"*	*10.00*		*87.3%*	*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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L026 - Volatiles

LCS (B19L026-BS1) **Prepared & Analyzed: Dec-19-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**20.0**			2.00	ug/L	25.02		80.0%	70-130		
Chloromethane	**21.4**			2.00	"	24.98		85.6%	70-130		
Vinyl chloride	**22.7**			2.00	"	24.88		91.3%	70-130		
Bromomethane	**15.3**	Q		2.00	"	24.88		61.6%	70-130		
Chloroethane	**20.9**			2.00	"	25.02		83.4%	70-130		
Trichlorofluoromethane	**23.0**			2.00	"	24.86		92.7%	70-130		
1,1-Dichloroethene	**22.2**			2.00	"	25.00		88.9%	70-130		
Methylene chloride	**22.8**			2.00	"	25.00		91.3%	70-130		
trans-1,2-Dichloroethene	**21.6**			2.00	"	25.00		86.6%	70-130		
1,1-Dichloroethane	**24.1**			2.00	"	25.00		96.3%	70-130		
2,2-Dichloropropane	**20.3**			2.00	"	25.00		81.0%	70-130		
cis-1,2-Dichloroethene	**22.9**			2.00	"	25.00		91.7%	70-130		
Bromochloromethane	**24.2**			2.00	"	25.00		97.0%	70-130		
Chloroform	**23.7**			2.00	"	25.00		94.7%	70-130		
1,1,1-Trichloroethane	**22.1**			2.00	"	25.00		88.3%	70-130		
Carbon tetrachloride	**22.1**			2.00	"	25.00		88.6%	70-130		
1,1-Dichloropropene	**20.9**			2.00	"	25.00		83.7%	70-130		
Benzene	**22.3**			2.00	"	25.00		89.2%	70-130		
1,2-Dichloroethane	**22.8**			2.00	"	25.00		91.2%	70-130		
Trichloroethene	**21.9**			2.00	"	25.00		87.6%	70-130		
1,2-Dichloropropane	**22.4**			2.00	"	25.00		89.7%	70-130		
Dibromomethane	**22.3**			2.00	"	25.00		89.3%	70-130		
Bromodichloromethane	**24.1**			2.00	"	25.00		96.3%	70-130		
cis-1,3-Dichloropropene	**22.0**			2.00	"	25.00		88.0%	70-130		
Toluene	**21.2**			2.00	"	25.00		84.8%	70-130		
trans-1,3-Dichloropropene	**21.1**			2.00	"	25.00		84.6%	70-130		
1,1,2-Trichloroethane	**23.2**			2.00	"	25.00		93.0%	70-130		
Tetrachloroethene	**21.5**			2.00	"	25.00		85.8%	70-130		
1,3-Dichloropropane	**23.6**			2.00	"	25.00		94.4%	70-130		
Dibromochloromethane	**21.4**			2.00	"	25.00		85.5%	70-130		
1,2-Dibromoethane (EDB)	**22.4**			2.00	"	25.00		89.5%	70-130		
Chlorobenzene	**22.3**			2.00	"	25.00		89.4%	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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L026 - Volatiles

LCS (B19L026-BS1) **Prepared & Analyzed: Dec-19-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	**22.6**			2.00	ug/L	25.00		90.3%	70-130		
Ethylbenzene	**21.5**			2.00	"	25.00		86.0%	70-130		
m+p-Xylene	**43.4**			4.00	"	50.00		86.7%	70-130		
o-Xylene	**21.8**			2.00	"	25.00		87.4%	70-130		
Styrene	**22.0**			2.00	"	25.00		87.8%	70-130		
Bromoform	**20.5**			2.00	"	25.00		81.9%	70-130		
Isopropylbenzene	**21.3**			2.00	"	25.00		85.0%	70-130		
Bromobenzene	**23.0**			2.00	"	25.00		92.0%	70-130		
1,2,3-Trichloropropane	**21.3**			2.00	"	25.00		85.1%	70-130		
n-Propylbenzene	**22.4**			2.00	"	25.00		89.6%	70-130		
2-Chlorotoluene	**22.6**			2.00	"	25.00		90.3%	70-130		
1,3,5-Trimethylbenzene	**21.3**			2.00	"	25.00		85.1%	70-130		
4-Chlorotoluene	**22.5**			2.00	"	25.00		89.9%	70-130		
1,1,2,2-Tetrachloroethane	**22.9**			2.00	"	25.00		91.6%	70-130		
tert-Butylbenzene	**22.4**			2.00	"	25.00		89.5%	70-130		
1,2,4-Trimethylbenzene	**21.7**			2.00	"	25.00		86.9%	70-130		
sec-Butylbenzene	**21.4**			2.00	"	25.00		85.6%	70-130		
1,3-Dichlorobenzene	**22.7**			2.00	"	25.00		90.7%	70-130		
p-Isopropyltoluene	**20.7**			2.00	"	25.00		82.8%	70-130		
1,4-Dichlorobenzene	**22.6**			2.00	"	25.00		90.5%	70-130		
1,2-Dichlorobenzene	**22.6**			2.00	"	25.00		90.3%	70-130		
n-Butylbenzene	**21.6**			2.00	"	25.00		86.5%	70-130		
1,2-Dibromo-3-chloropropane	**19.4**			2.00	"	25.00		77.6%	70-130		
1,2,4-Trichlorobenzene	**21.3**			2.00	"	25.00		85.1%	70-130		
Hexachlorobutadiene	**20.1**			2.00	"	25.00		80.2%	70-130		
Naphthalene	**19.1**			2.00	"	25.00		76.5%	70-130		
1,2,3-Trichlorobenzene	**19.6**			2.00	"	25.00		78.6%	70-130		
Surrogate: Dibromofluoromethane	*10.8*				*"*	*10.06*		*108%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*9.87*				*"*	*10.08*		*97.9%*	*84-122*		
Surrogate: Toluene-d8	*10.0*				*"*	*10.00*		*100%*	*88-108*		
Surrogate: 4-Bromofluorobenzene	*10.2*				*"*	*10.00*		*102%*	*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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L026 - Volatiles

LCS Dup (B19L026-BSD1) **Prepared: Dec-19-19 Analyzed: Dec-20-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Dichlorodifluoromethane	**18.6**			2.00	ug/L	25.02		74.3%	70-130	7.39	60
Chloromethane	**20.9**			2.00	"	24.98		83.7%	70-130	2.27	60
Vinyl chloride	**22.3**			2.00	"	24.88		89.7%	70-130	1.79	60
Bromomethane	**15.8**	Q		2.00	"	24.88		63.6%	70-130	3.17	60
Chloroethane	**21.3**			2.00	"	25.02		84.9%	70-130	1.77	60
Trichlorofluoromethane	**22.1**			2.00	"	24.86		88.9%	70-130	4.18	60
1,1-Dichloroethene	**20.3**			2.00	"	25.00		81.3%	70-130	8.92	60
Methylene chloride	**21.5**			2.00	"	25.00		85.9%	70-130	6.07	60
trans-1,2-Dichloroethene	**21.3**			2.00	"	25.00		85.3%	70-130	1.53	60
1,1-Dichloroethane	**23.0**			2.00	"	25.00		92.0%	70-130	4.62	60
2,2-Dichloropropane	**15.1**	Q		2.00	"	25.00		60.4%	70-130	29.2	60
cis-1,2-Dichloroethene	**23.2**			2.00	"	25.00		92.7%	70-130	1.06	60
Bromochloromethane	**23.1**			2.00	"	25.00		92.5%	70-130	4.73	60
Chloroform	**23.5**			2.00	"	25.00		94.1%	70-130	0.644	60
1,1,1-Trichloroethane	**20.5**			2.00	"	25.00		81.9%	70-130	7.52	60
Carbon tetrachloride	**19.1**			2.00	"	25.00		76.4%	70-130	14.7	60
1,1-Dichloropropene	**19.8**			2.00	"	25.00		79.4%	70-130	5.29	60
Benzene	**22.1**			2.00	"	25.00		88.4%	70-130	0.892	60
1,2-Dichloroethane	**22.4**			2.00	"	25.00		89.6%	70-130	1.79	60
Trichloroethene	**22.6**			2.00	"	25.00		90.2%	70-130	2.92	60
1,2-Dichloropropane	**22.6**			2.00	"	25.00		90.6%	70-130	0.941	60
Dibromomethane	**22.8**			2.00	"	25.00		91.0%	70-130	1.89	60
Bromodichloromethane	**23.3**			2.00	"	25.00		93.4%	70-130	3.08	60
cis-1,3-Dichloropropene	**21.1**			2.00	"	25.00		84.5%	70-130	4.09	60
Toluene	**20.5**			2.00	"	25.00		82.2%	70-130	3.16	60
trans-1,3-Dichloropropene	**21.1**			2.00	"	25.00		84.6%	70-130	0.0284	60
1,1,2-Trichloroethane	**24.7**			2.00	"	25.00		98.9%	70-130	6.16	60
Tetrachloroethene	**20.7**			2.00	"	25.00		82.8%	70-130	3.53	60
1,3-Dichloropropane	**24.7**			2.00	"	25.00		98.8%	70-130	4.62	60
Dibromochloromethane	**22.7**			2.00	"	25.00		91.0%	70-130	6.25	60
1,2-Dibromoethane (EDB)	**22.9**			2.00	"	25.00		91.7%	70-130	2.39	60
Chlorobenzene	**22.3**			2.00	"	25.00		89.3%	70-130	0.0716	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-21-20 10:29

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

US EPA Region 5 LSASD Analytical Services Branch

Batch B19L026 - Volatiles

LCS Dup (B19L026-BSD1) **Prepared: Dec-19-19 Analyzed: Dec-20-19**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	**22.6**			2.00	ug/L	25.00		90.4%	70-130	0.0443	60
Ethylbenzene	**22.1**			2.00	"	25.00		88.4%	70-130	2.85	60
m+p-Xylene	**43.6**			4.00	"	50.00		87.2%	70-130	0.529	60
o-Xylene	**21.3**			2.00	"	25.00		85.2%	70-130	2.48	60
Styrene	**23.3**			2.00	"	25.00		93.3%	70-130	6.08	60
Bromoform	**21.1**			2.00	"	25.00		84.4%	70-130	3.01	60
Isopropylbenzene	**21.2**			2.00	"	25.00		84.9%	70-130	0.141	60
Bromobenzene	**24.4**			2.00	"	25.00		97.7%	70-130	5.93	60
1,2,3-Trichloropropane	**22.4**			2.00	"	25.00		89.7%	70-130	5.21	60
n-Propylbenzene	**21.5**			2.00	"	25.00		86.0%	70-130	4.14	60
2-Chlorotoluene	**22.8**			2.00	"	25.00		91.1%	70-130	0.865	60
1,3,5-Trimethylbenzene	**20.9**			2.00	"	25.00		83.7%	70-130	1.67	60
4-Chlorotoluene	**22.4**			2.00	"	25.00		89.8%	70-130	0.142	60
1,1,2,2-Tetrachloroethane	**21.9**			2.00	"	25.00		87.7%	70-130	4.33	60
tert-Butylbenzene	**21.7**			2.00	"	25.00		86.7%	70-130	3.19	60
1,2,4-Trimethylbenzene	**21.5**			2.00	"	25.00		85.9%	70-130	1.15	60
sec-Butylbenzene	**21.1**			2.00	"	25.00		84.3%	70-130	1.42	60
1,3-Dichlorobenzene	**23.4**			2.00	"	25.00		93.5%	70-130	3.09	60
p-Isopropyltoluene	**20.6**			2.00	"	25.00		82.3%	70-130	0.630	60
1,4-Dichlorobenzene	**23.0**			2.00	"	25.00		92.1%	70-130	1.67	60
1,2-Dichlorobenzene	**22.4**			2.00	"	25.00		89.7%	70-130	0.676	60
n-Butylbenzene	**20.4**			2.00	"	25.00		81.6%	70-130	5.86	60
1,2-Dibromo-3-chloropropane	**19.5**			2.00	"	25.00		78.2%	70-130	0.760	60
1,2,4-Trichlorobenzene	**21.4**			2.00	"	25.00		85.4%	70-130	0.366	60
Hexachlorobutadiene	**19.7**			2.00	"	25.00		79.0%	70-130	1.59	60
Naphthalene	**20.3**			2.00	"	25.00		81.0%	70-130	5.78	60
1,2,3-Trichlorobenzene	**18.8**			2.00	"	25.00		75.0%	70-130	4.58	60
Surrogate: Dibromofluoromethane	*10.0*				*"*	*10.06*		*99.7%*	*73-124*		
Surrogate: 1,2-Dichloroethane-d4	*9.15*				*"*	*10.08*		*90.7%*	*84-122*		
Surrogate: Toluene-d8	*9.40*				*"*	*10.00*		*94.0%*	*88-108*		
Surrogate: 4-Bromofluorobenzene	*10.5*				*"*	*10.00*		*105%*	*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-21-20 10:29

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	6.26	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

Sequence continues on page 213 in association with B19L012 -KO 12.23.19

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

All 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

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

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

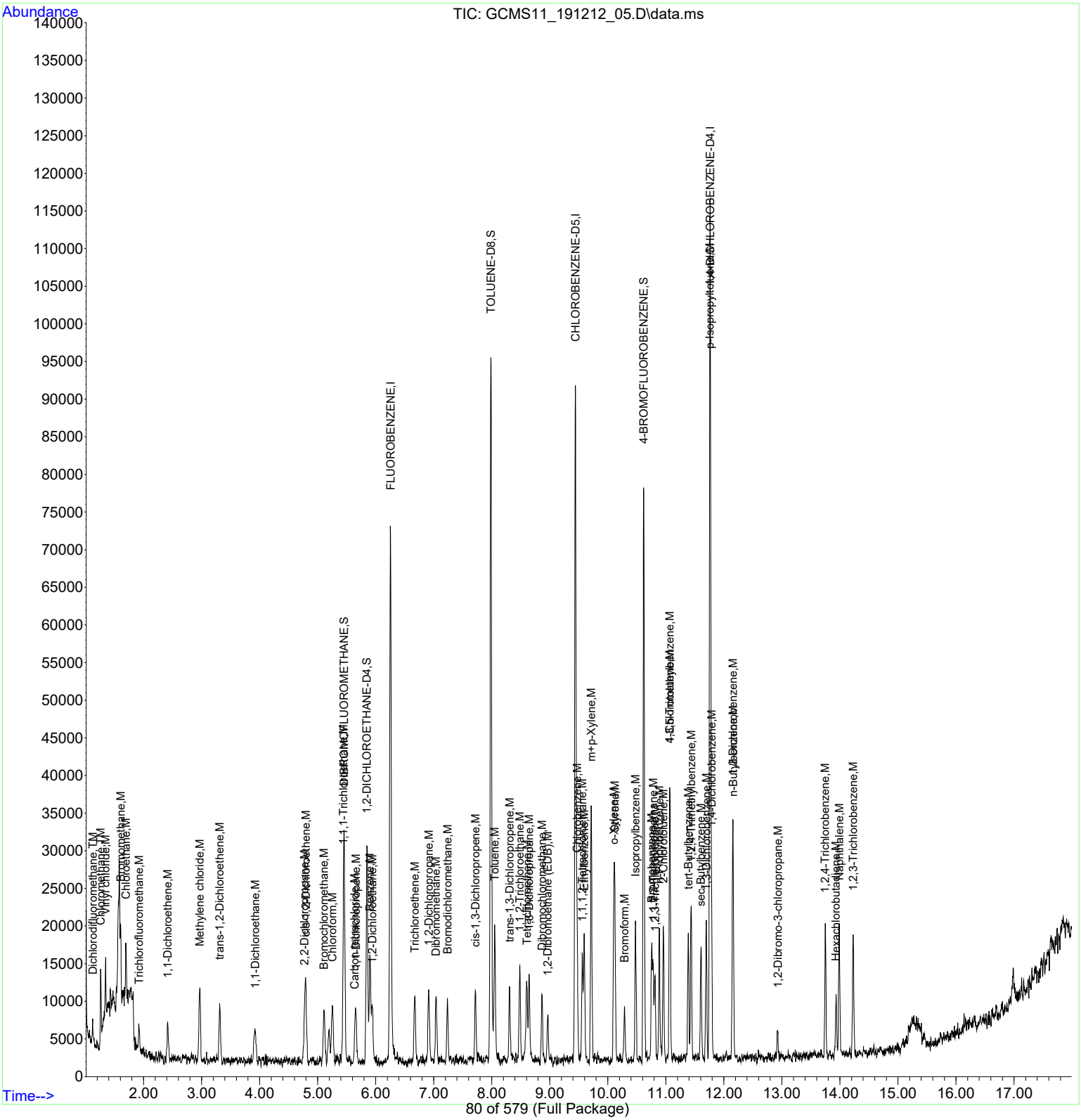
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58)	n-Propylbenzene	10.887	91	11327	5.53	ng		97
59)	2-Chlorotoluene	10.958	91	8640	7.21	ng		92
60)	1,3,5-Trimethylbenzene	11.067	105	9562	6.44	ng		95
61)	4-Chlorotoluene	11.067	91	10383	7.43	ng		96
63)	1,1,2,2-Tetrachloroethane	10.785	83	4659	9.99	ng		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

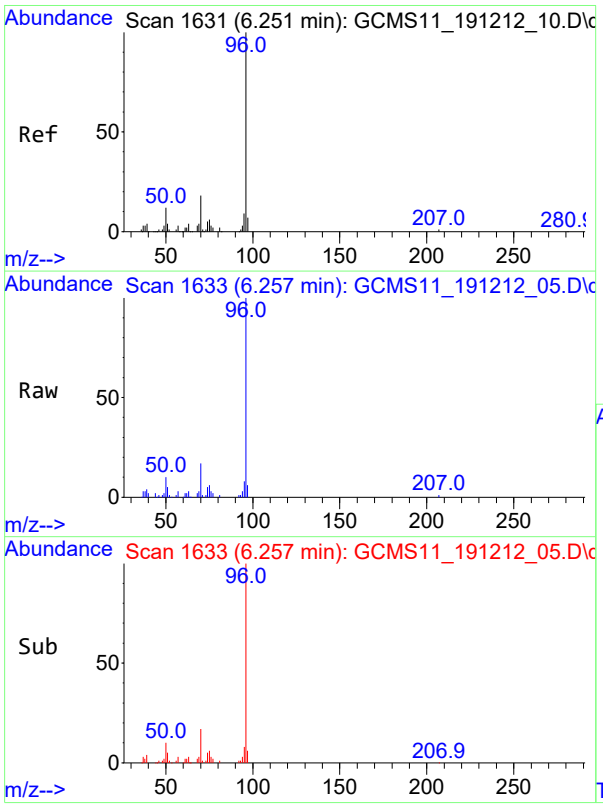
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

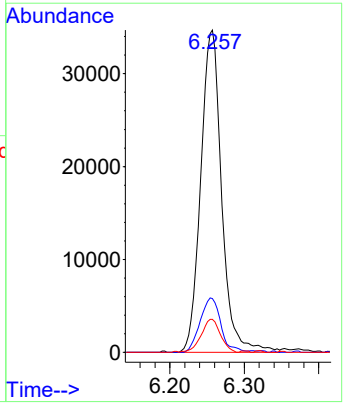


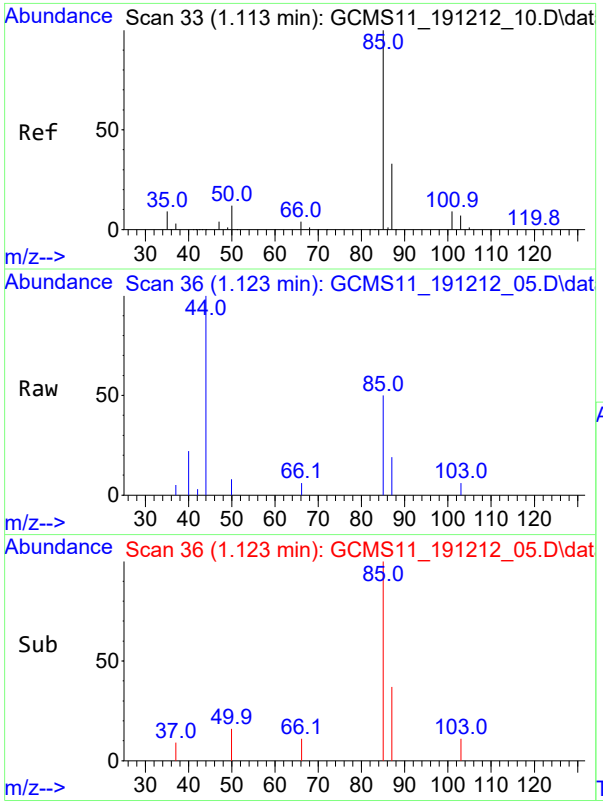


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.257 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

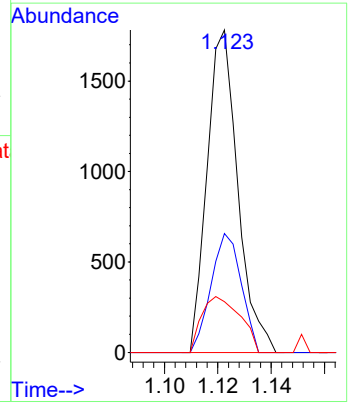


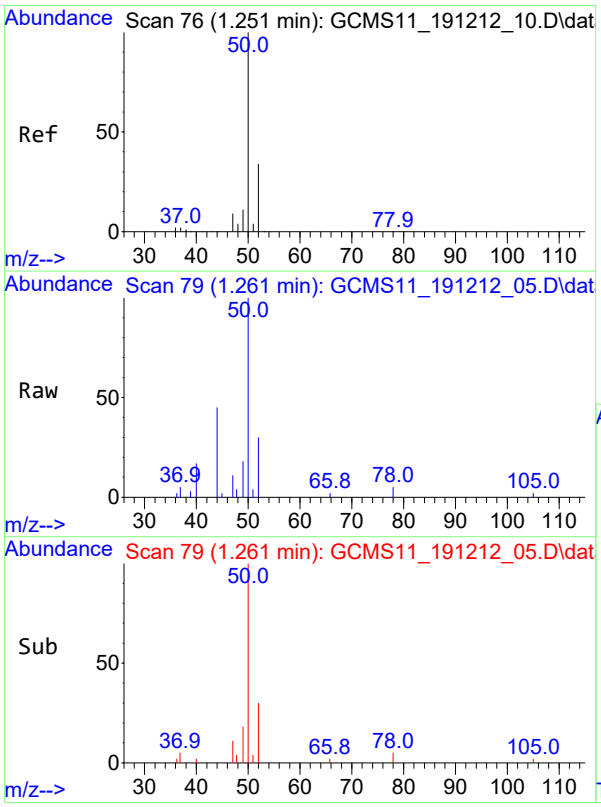


#2
Dichlorodifluoromethane
Concen: 4.50 ng
RT: 1.123 min Scan# 36
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

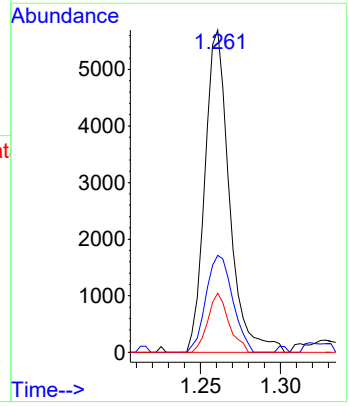


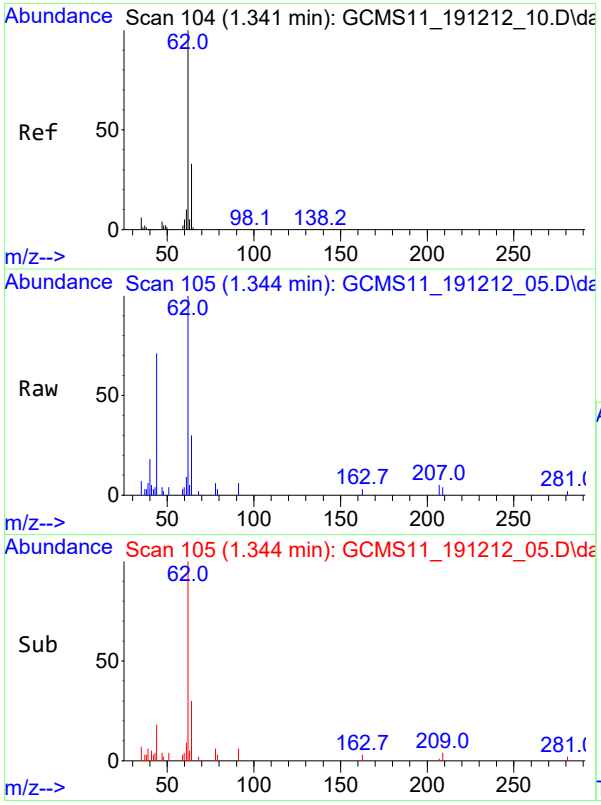


#3
Chloromethane
Concen: 21.07 ng
RT: 1.261 min Scan# 79
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

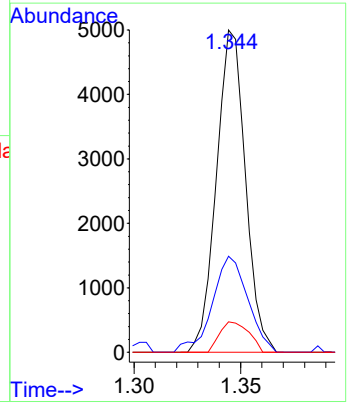


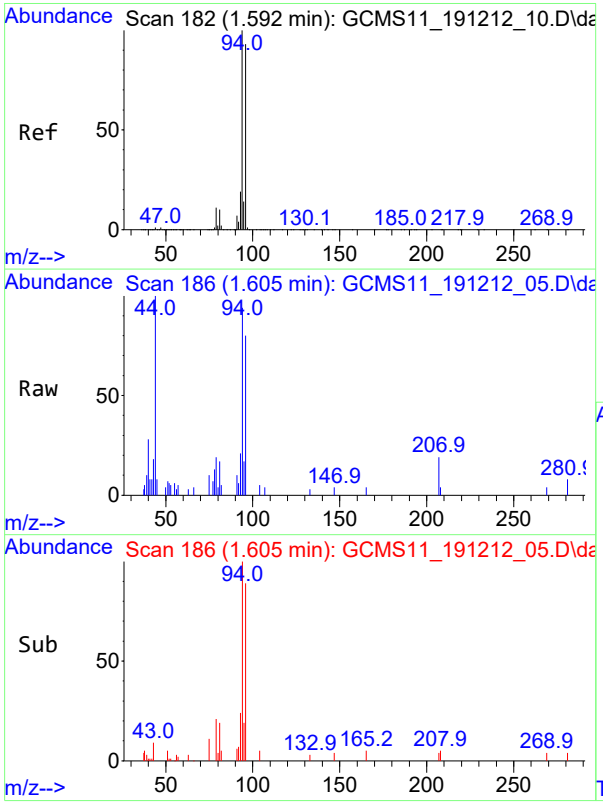


#4
Vinyl chloride
Concen: 12.91 ng
RT: 1.344 min Scan# 105
Delta R.T. -0.006 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

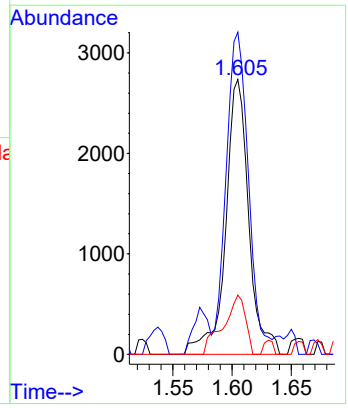


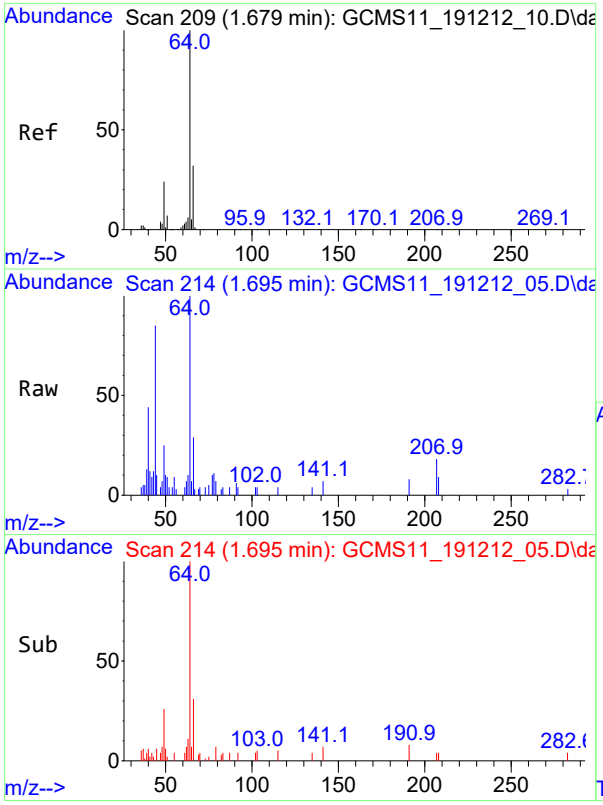


#5
Bromomethane
Concen: 12.13 ng
RT: 1.605 min Scan# 186
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

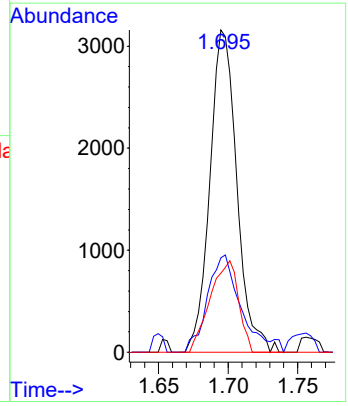


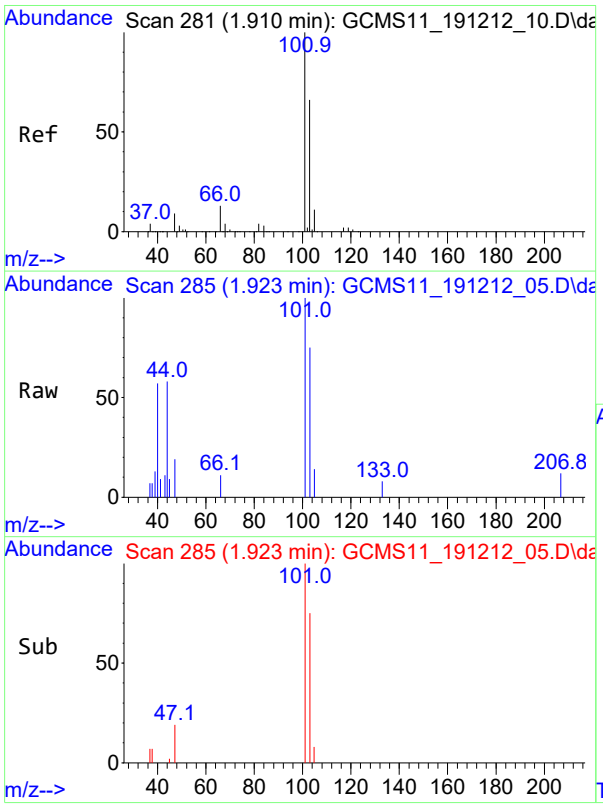


#6
Chloroethane
Concen: 15.93 ng
RT: 1.695 min Scan# 214
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

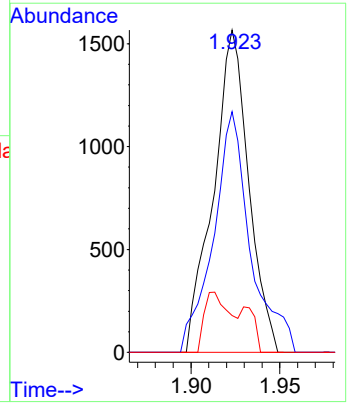


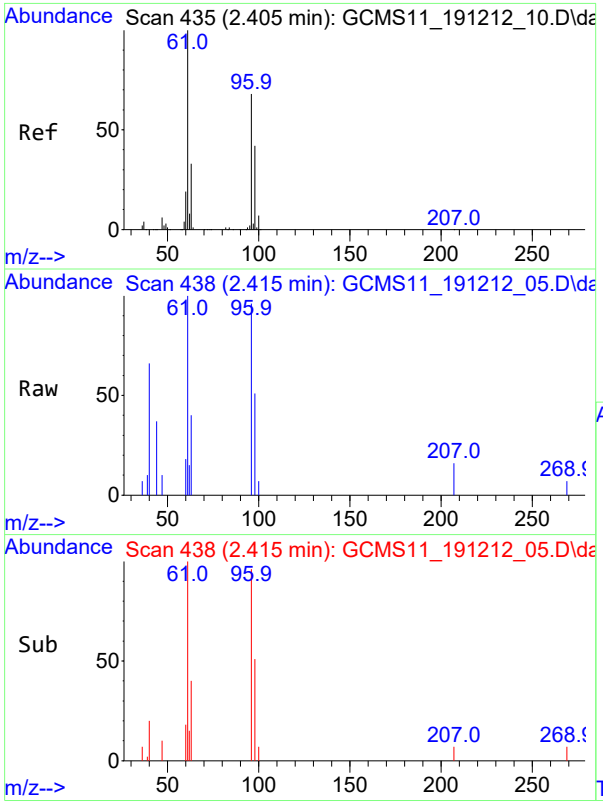


#7
Trichlorofluoromethane
Concen: 4.57 ng
RT: 1.923 min Scan# 285
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

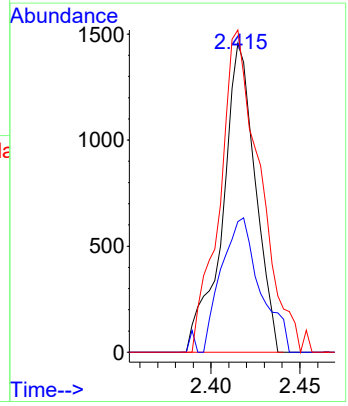


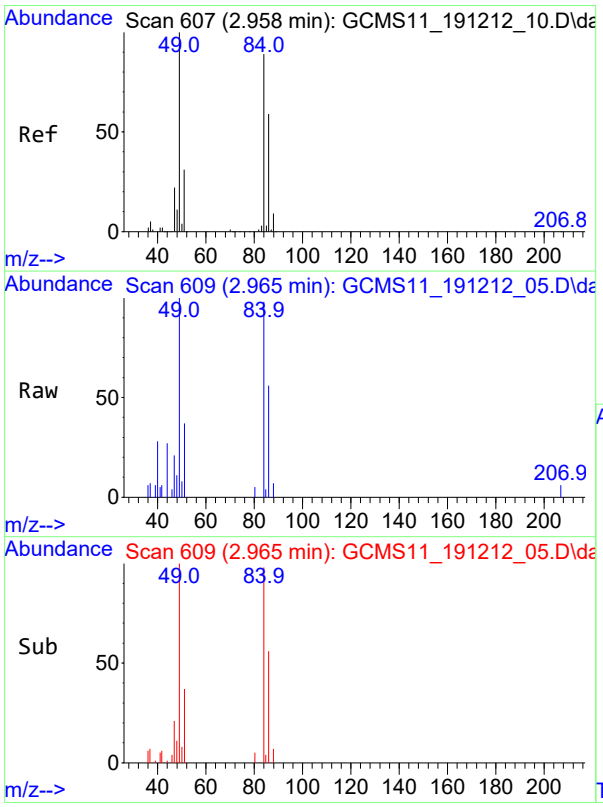


#9
1,1-Dichloroethene
Concen: 5.27 ng
RT: 2.415 min Scan# 438
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

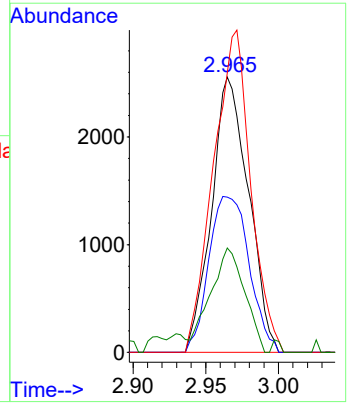


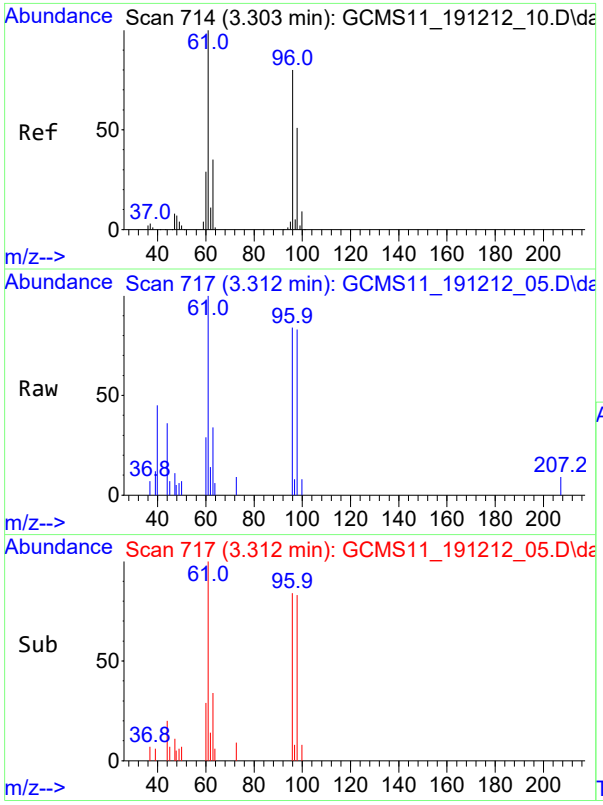


#12
Methylene chloride
Concen: 10.55 ng
RT: 2.965 min Scan# 609
Delta R.T. -0.006 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

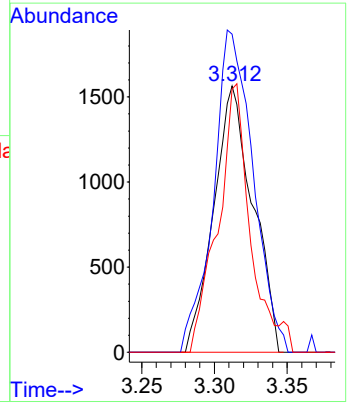


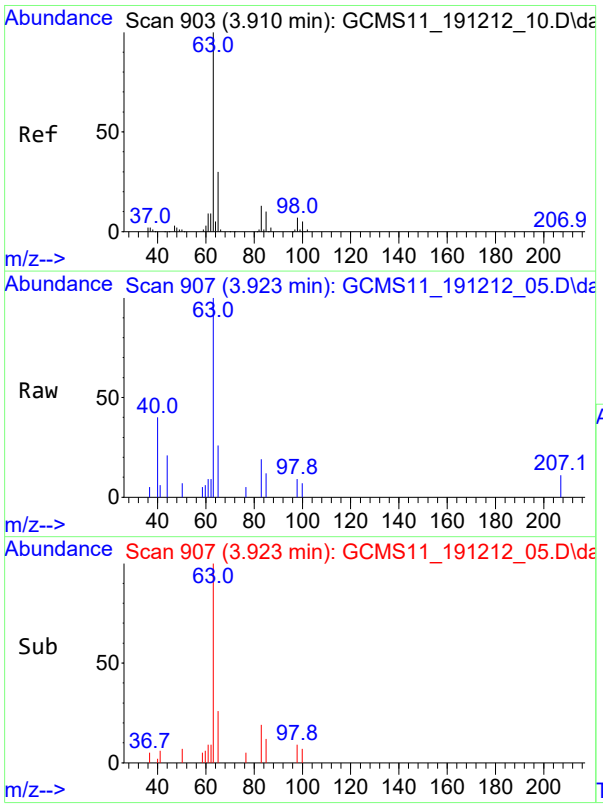


#14
trans-1,2-Dichloroethene
Concen: 7.38 ng
RT: 3.312 min Scan# 717
Delta R.T. -0.006 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

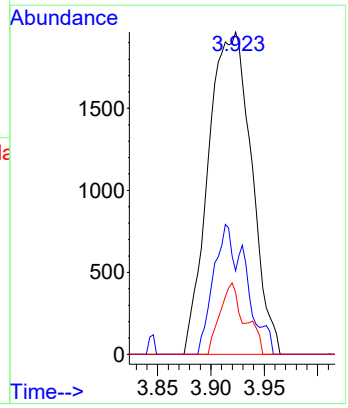


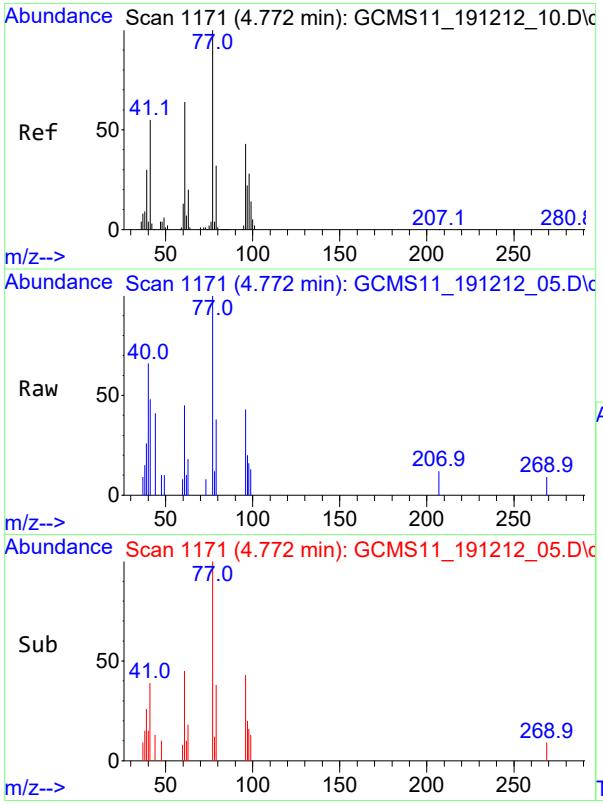


#16
1,1-Dichloroethane
Concen: 8.39 ng
RT: 3.923 min Scan# 907
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

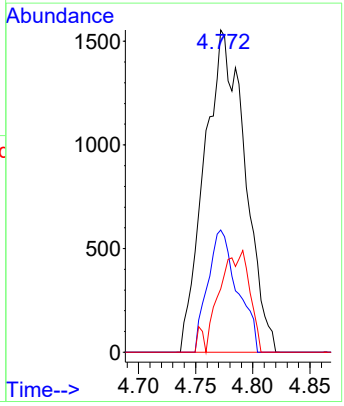


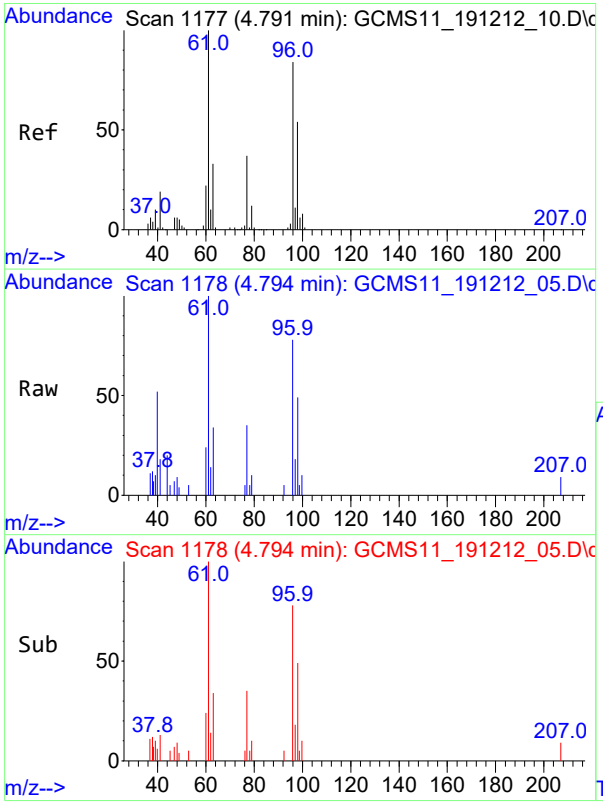


#17
2,2-Dichloropropane
Concen: 7.06 ng
RT: 4.772 min Scan# 1171
Delta R.T. -0.010 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

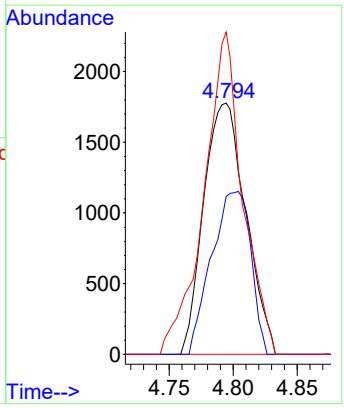


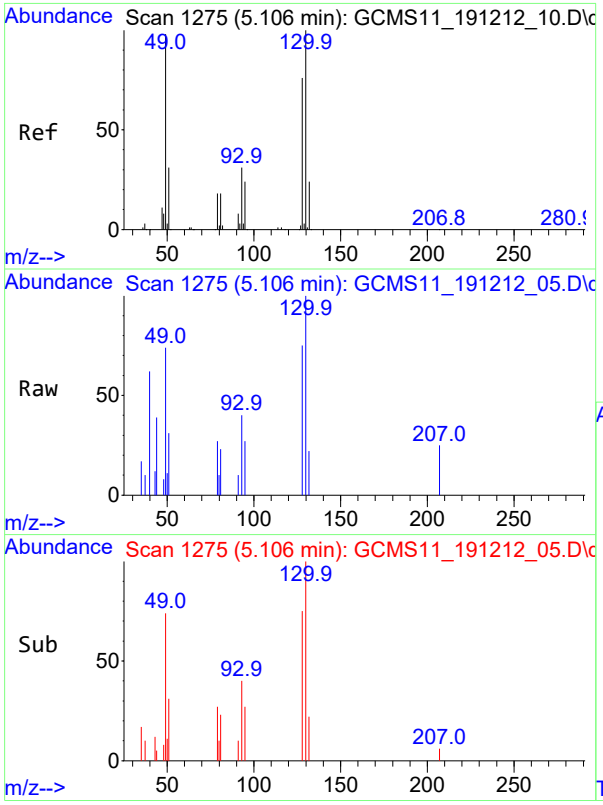


#18
cis-1,2-Dichloroethene
Concen: 9.48 ng
RT: 4.794 min Scan# 1178
Delta R.T. -0.006 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

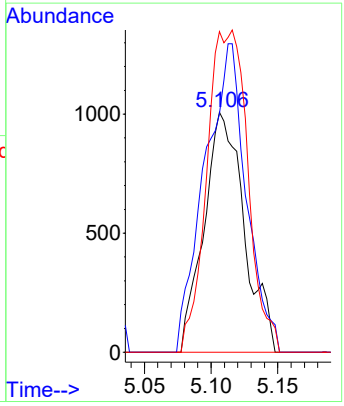


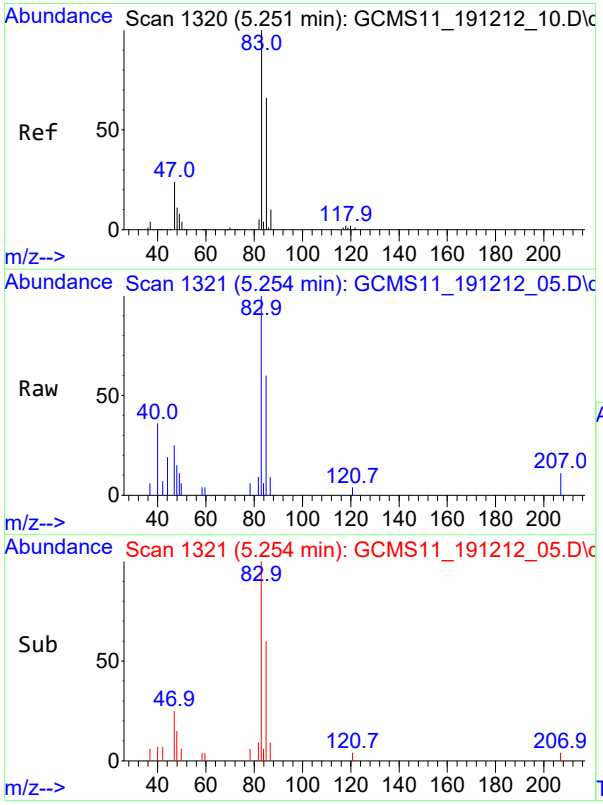


#20
Bromochloromethane
Concen: 9.05 ng
RT: 5.106 min Scan# 1275
Delta R.T. -0.010 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

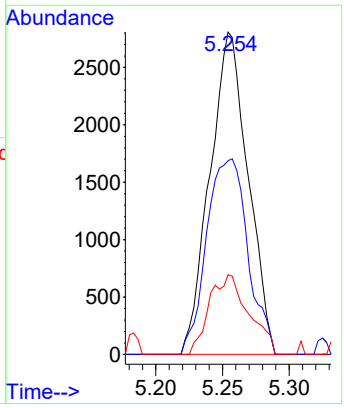


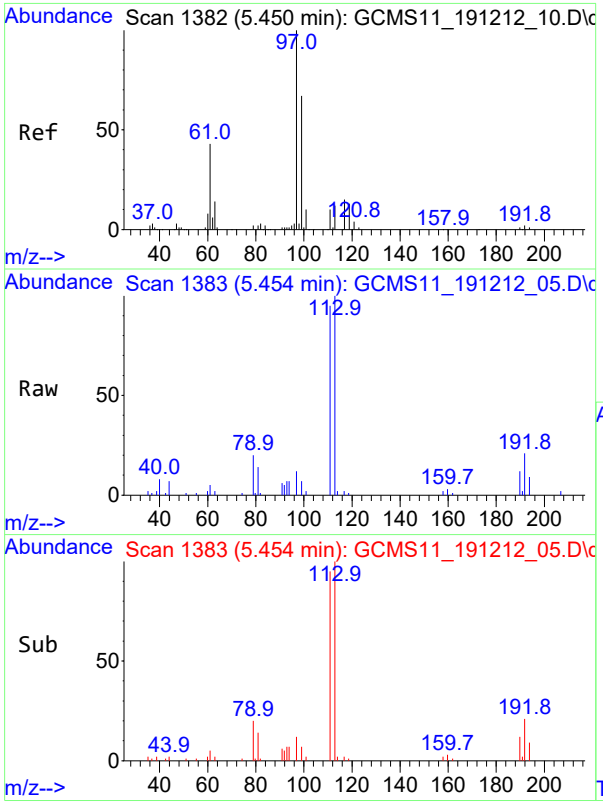


#21
Chloroform
Concen: 8.53 ng
RT: 5.254 min Scan# 1321
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

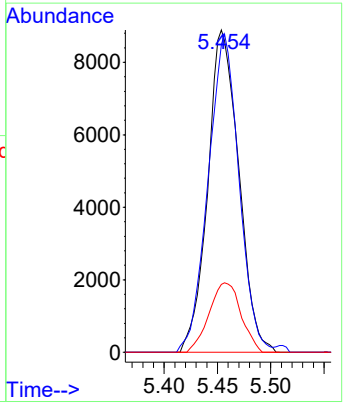


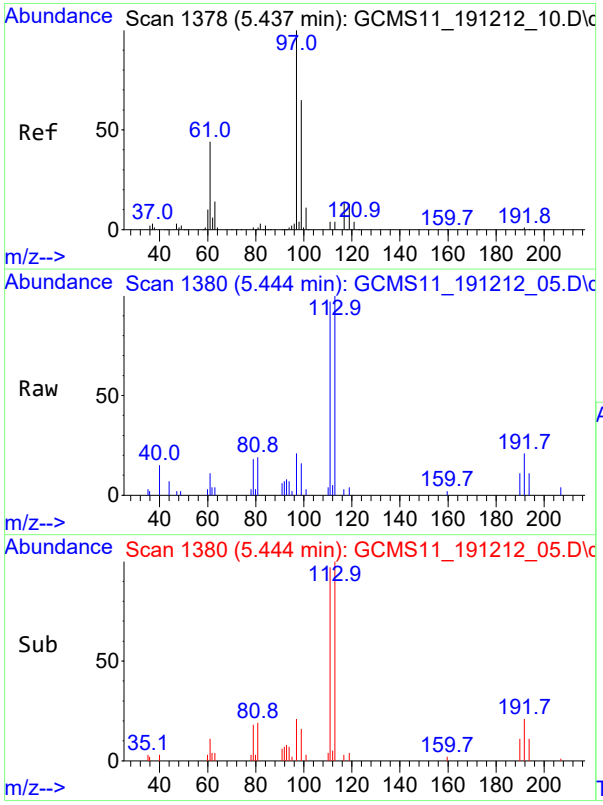


#22
DIBROMOFLUOROMETHANE
Concen: 50.21 ng
RT: 5.454 min Scan# 1383
Delta R.T. -0.006 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

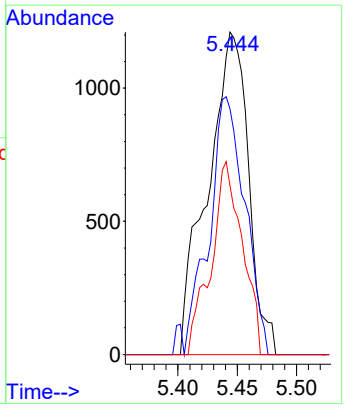


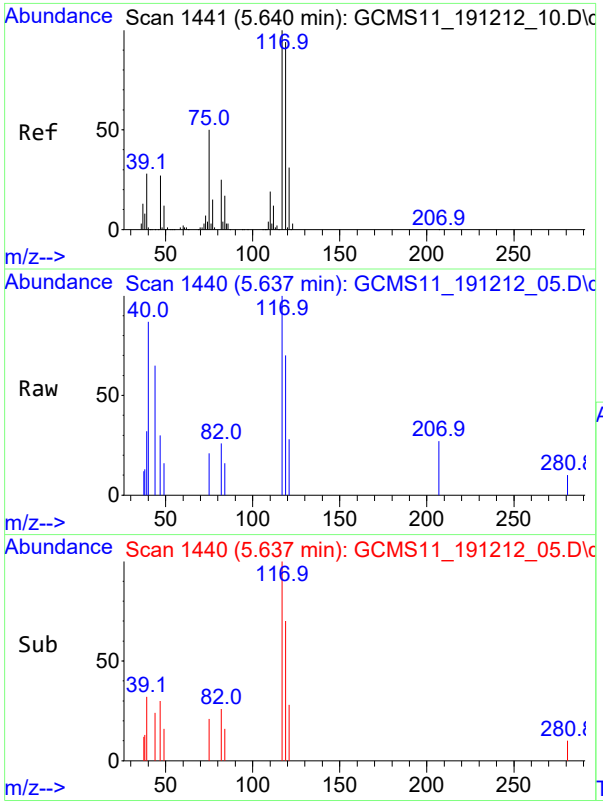


#23
1,1,1-Trichloroethane
Concen: 4.85 ng
RT: 5.444 min Scan# 1380
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

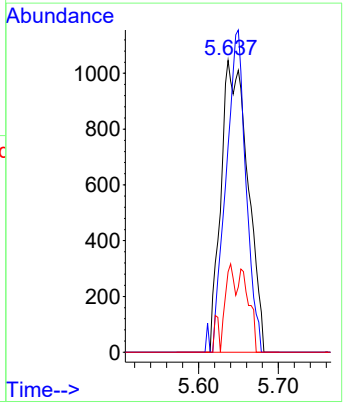


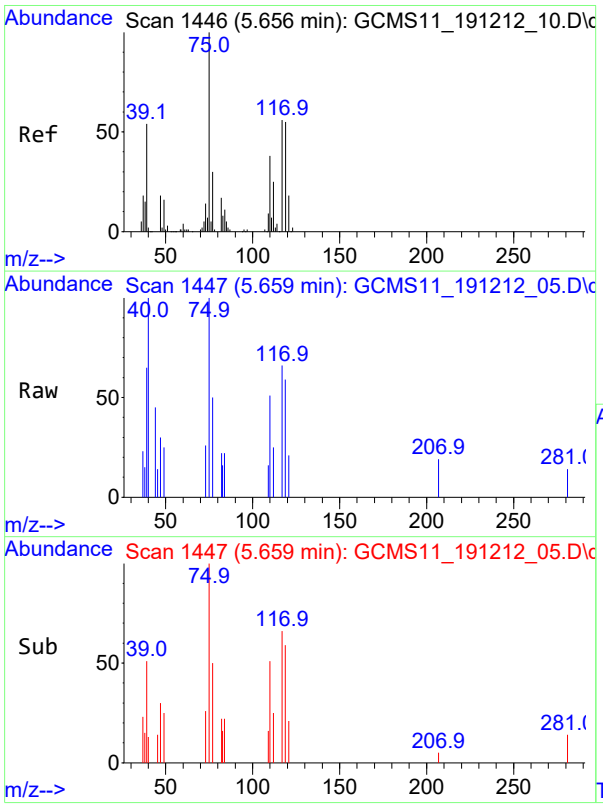


#24
Carbon tetrachloride
Concen: 4.57 ng m
RT: 5.637 min Scan# 1440
Delta R.T. -0.013 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

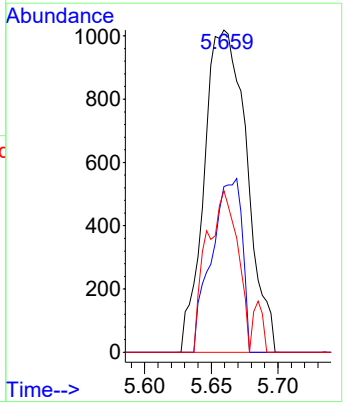


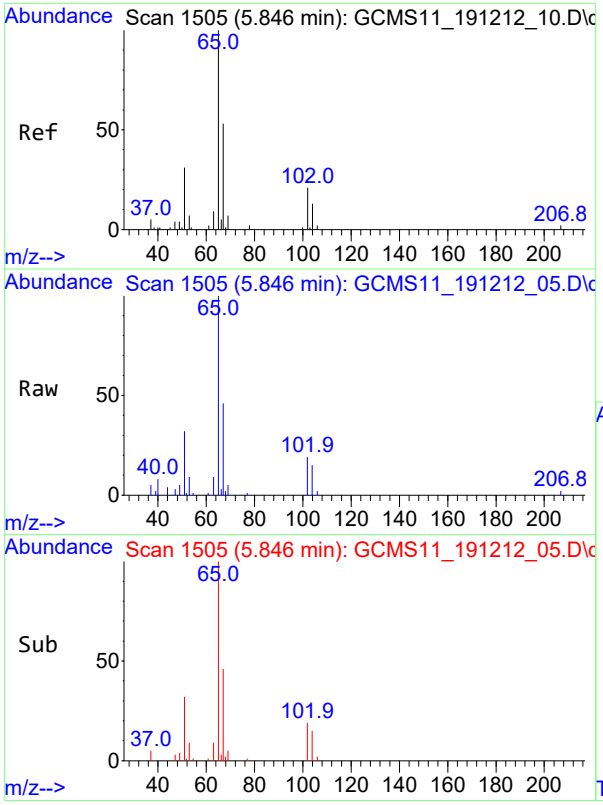


#25
1,1-Dichloropropene
Concen: 4.65 ng
RT: 5.659 min Scan# 1447
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

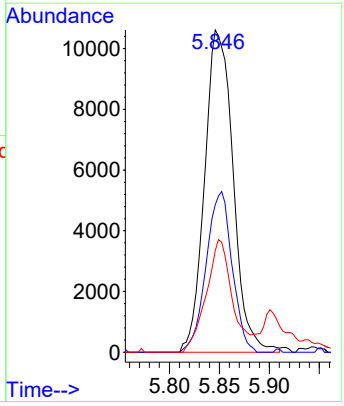


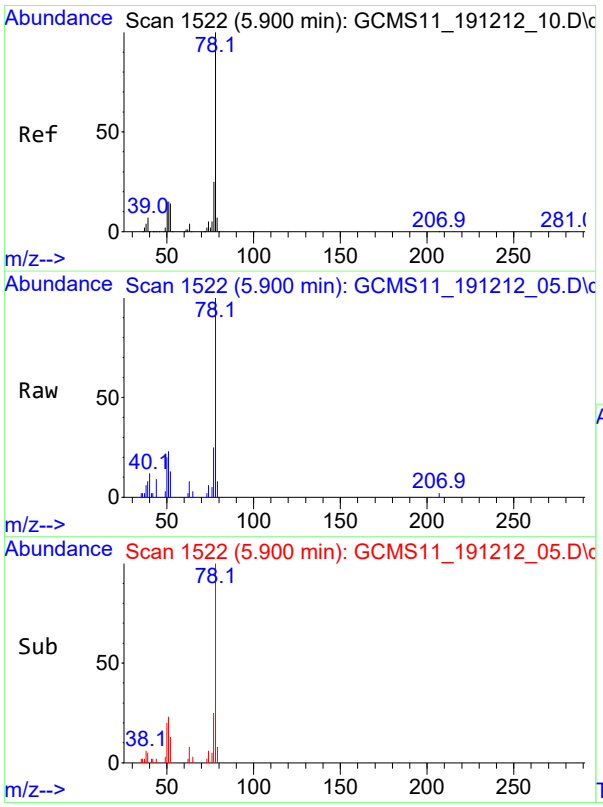


#26
1,2-DICHLOROETHANE-D4
Concen: 49.58 ng
RT: 5.846 min Scan# 1505
Delta R.T. -0.006 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

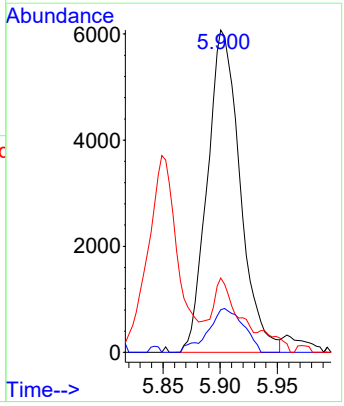


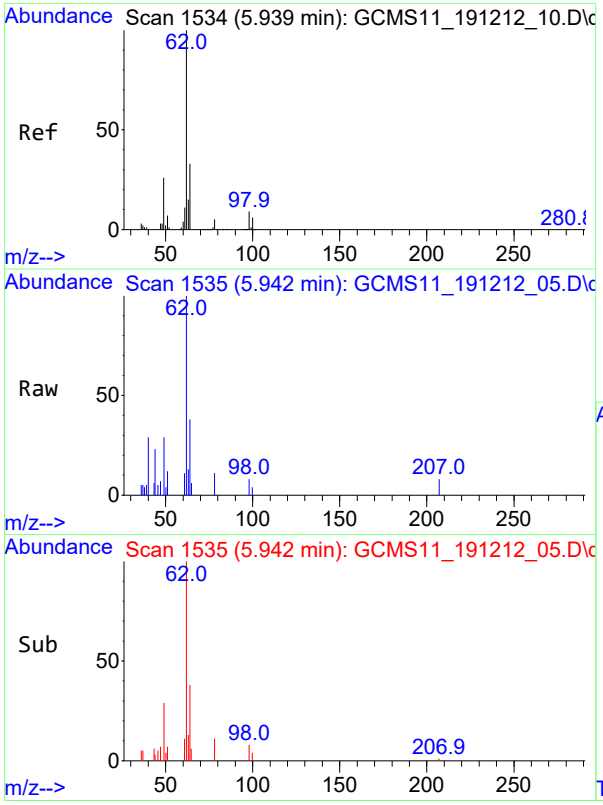


#27
Benzene
Concen: 7.35 ng
RT: 5.900 min Scan# 1522
Delta R.T. -0.006 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

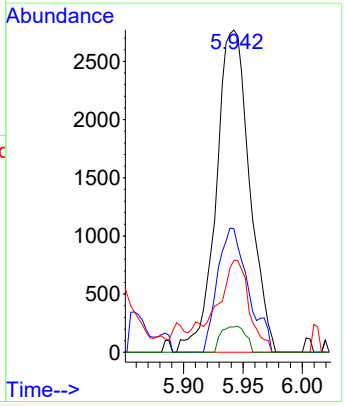


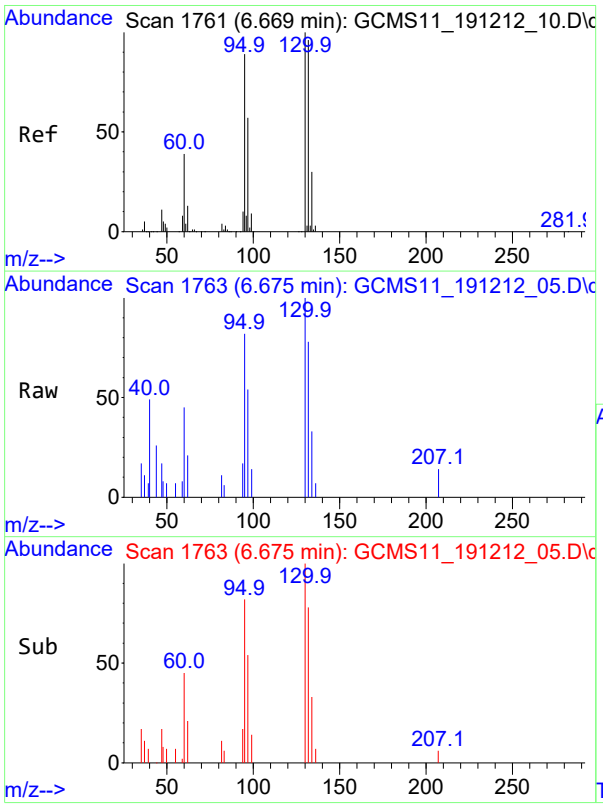


#28
1,2-Dichloroethane
Concen: 9.79 ng
RT: 5.942 min Scan# 1535
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

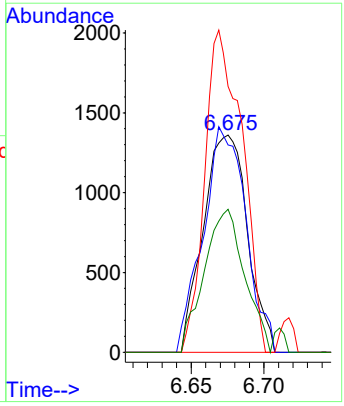


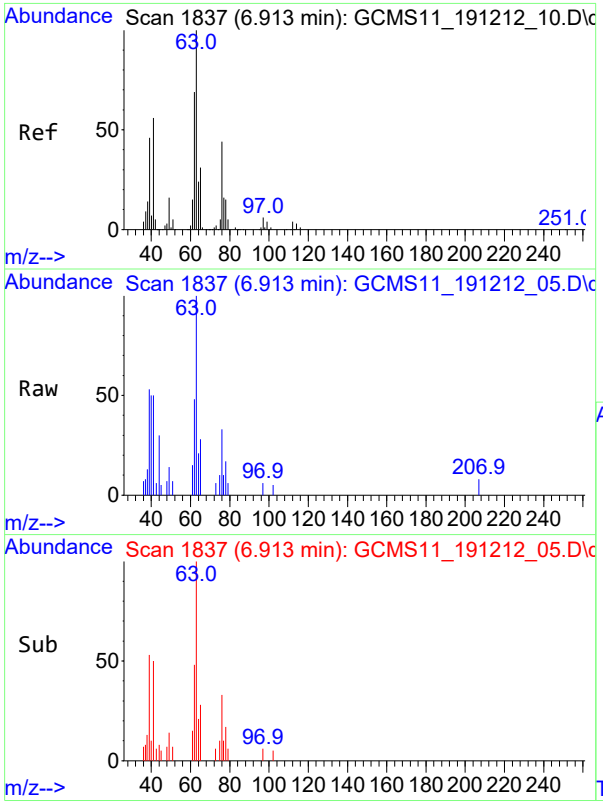


#29
Trichloroethene
Concen: 7.41 ng
RT: 6.675 min Scan# 1763
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

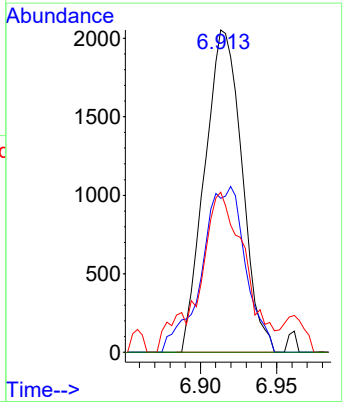


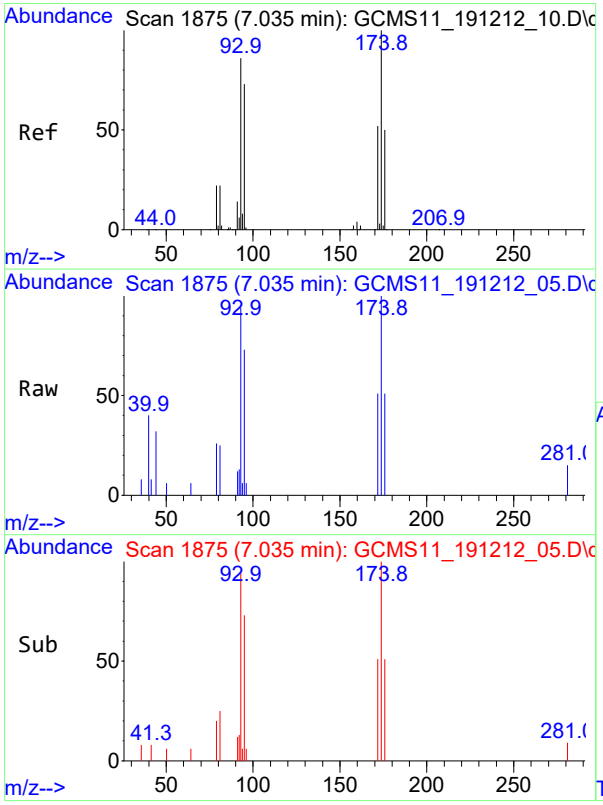


#30
1,2-Dichloropropane
Concen: 9.55 ng
RT: 6.913 min Scan# 1837
Delta R.T. -0.006 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

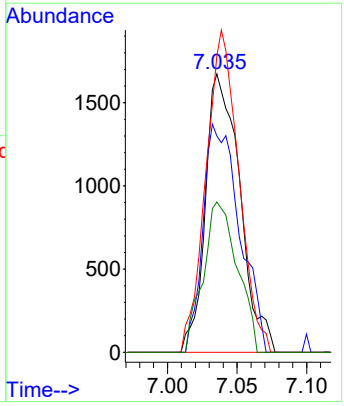


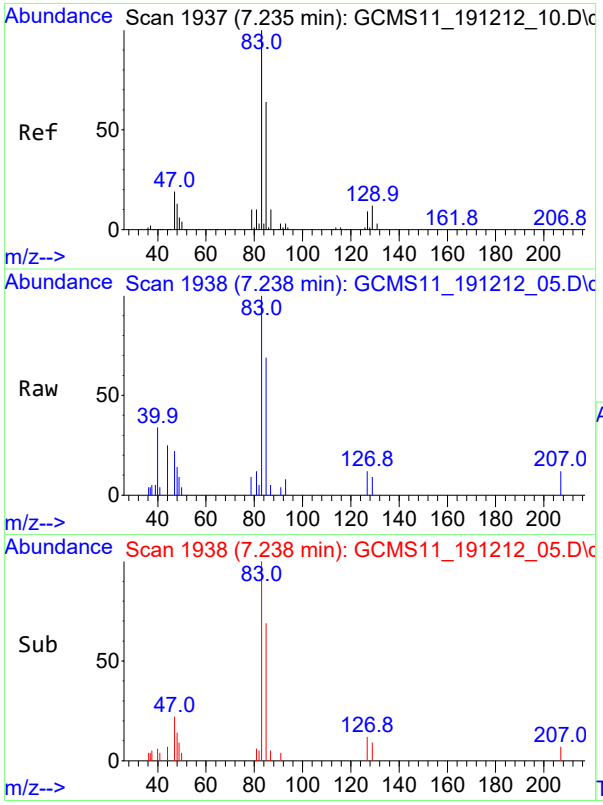


#31
Dibromomethane
Concen: 9.68 ng
RT: 7.035 min Scan# 1875
Delta R.T. -0.006 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

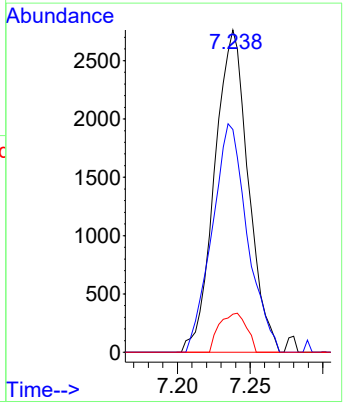


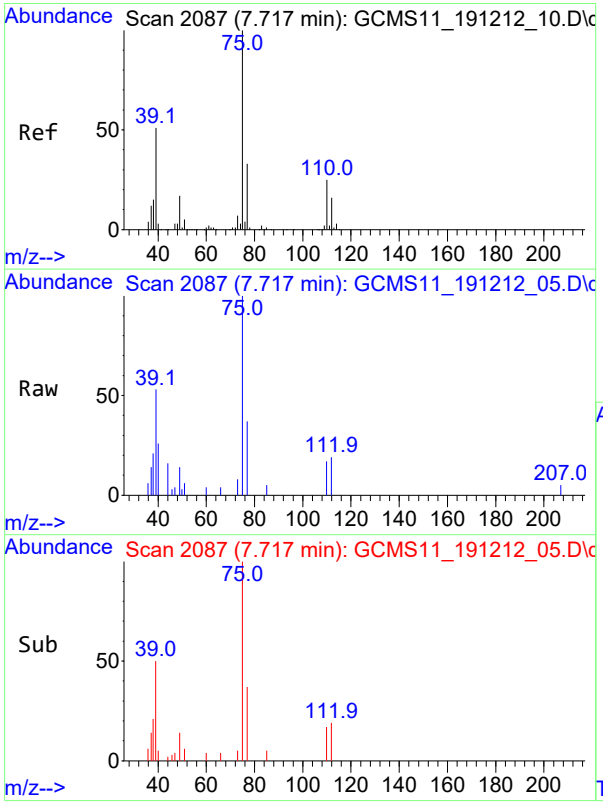


#33
Bromodichloromethane
Concen: 8.62 ng
RT: 7.238 min Scan# 1938
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

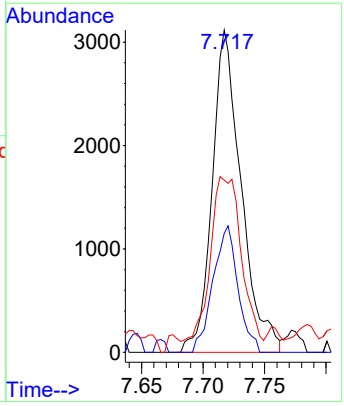


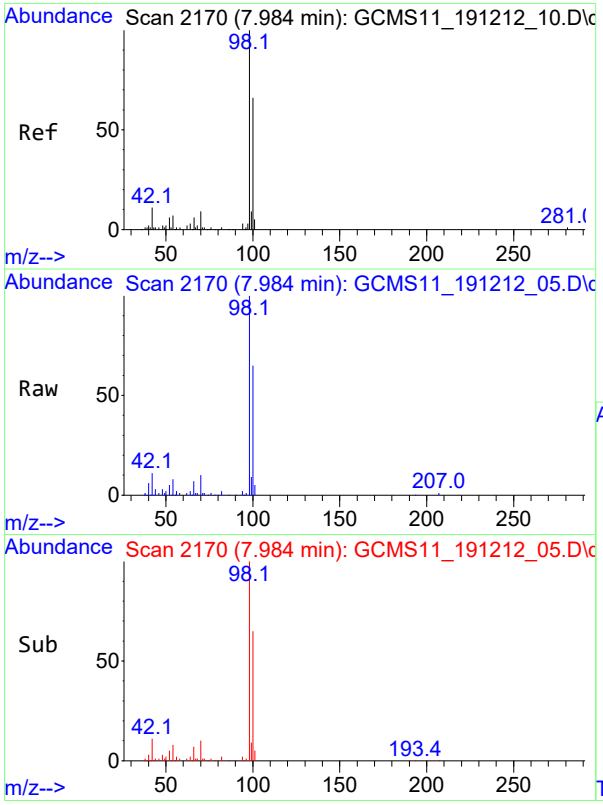


#35
cis-1,3-Dichloropropene
Concen: 8.95 ng
RT: 7.717 min Scan# 2087
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

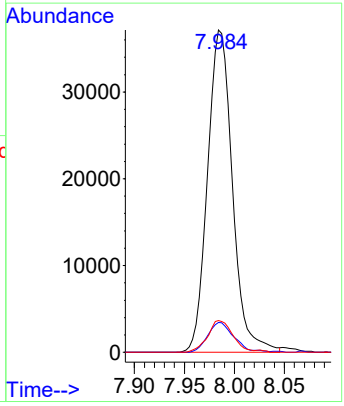


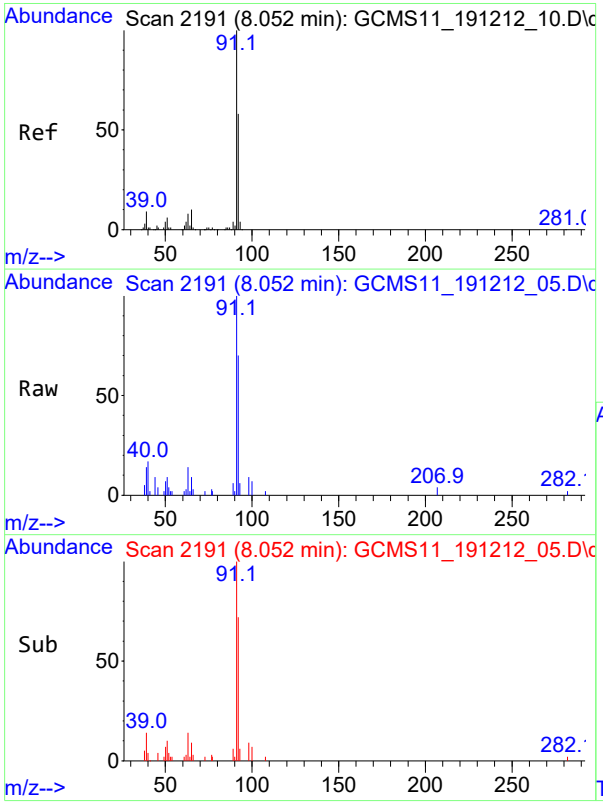


#37
TOLUENE-D8
Concen: 48.39 ng
RT: 7.984 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

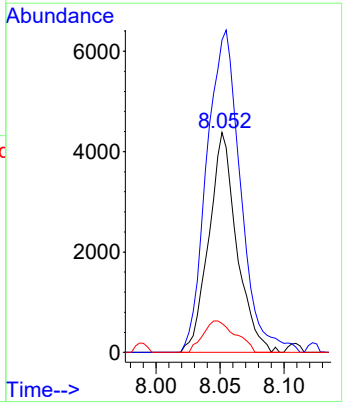


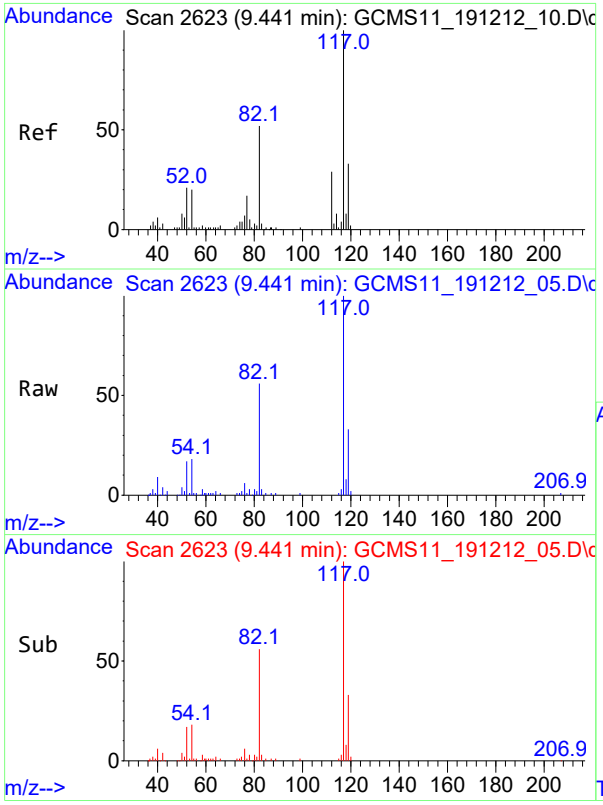


#38
Toluene
Concen: 7.22 ng
RT: 8.052 min Scan# 2191
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

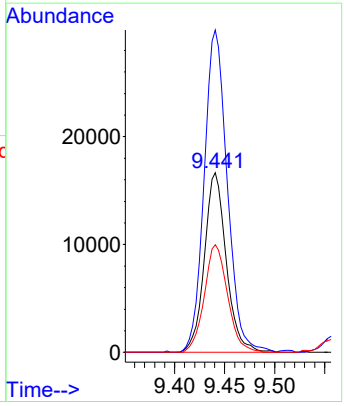


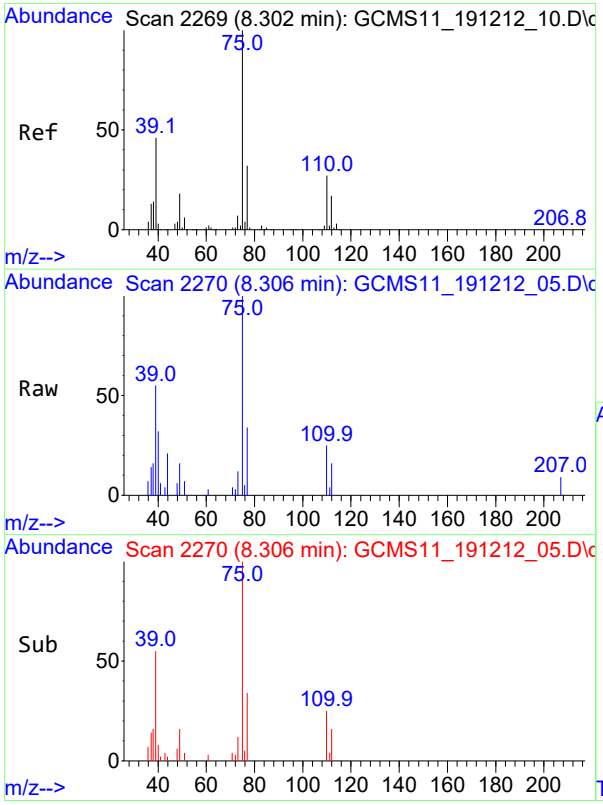


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.441 min Scan# 2623
Delta R.T. 0.001 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

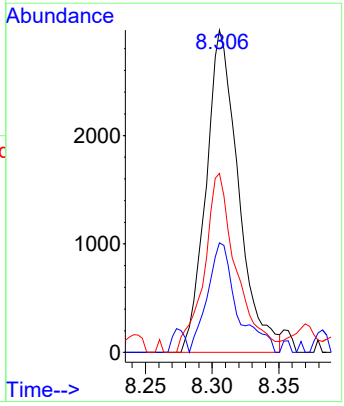


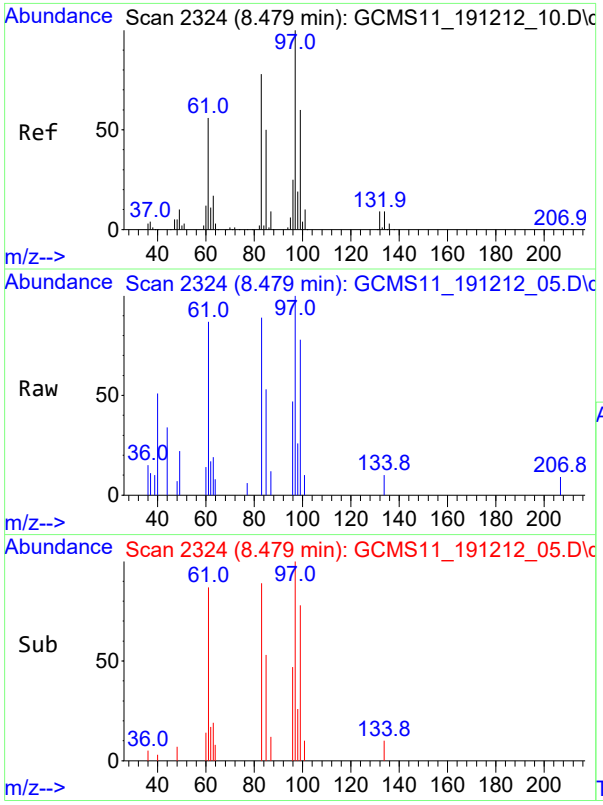


#40
trans-1,3-Dichloropropene
Concen: 9.02 ng
RT: 8.306 min Scan# 2270
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

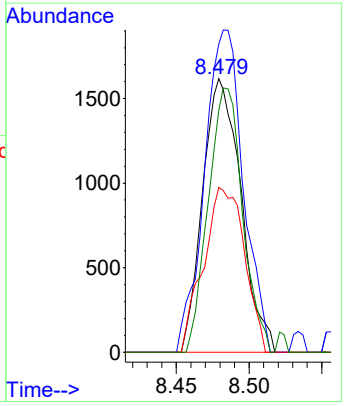


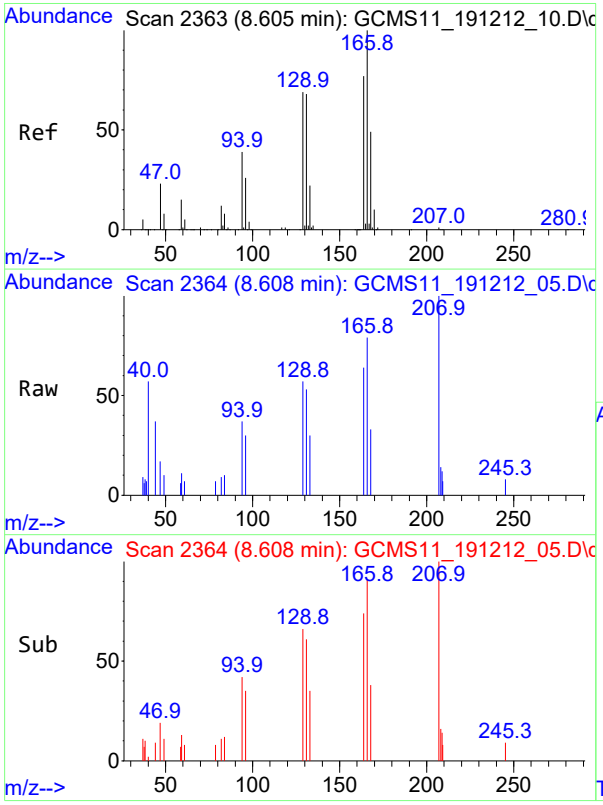


#41
1,1,2-Trichloroethane
Concen: 9.24 ng
RT: 8.479 min Scan# 2324
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

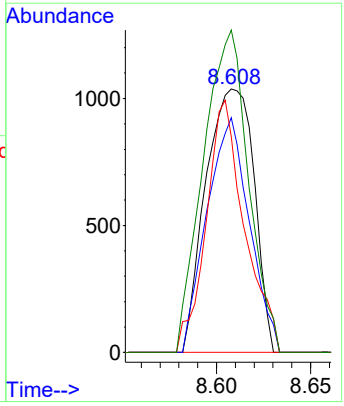


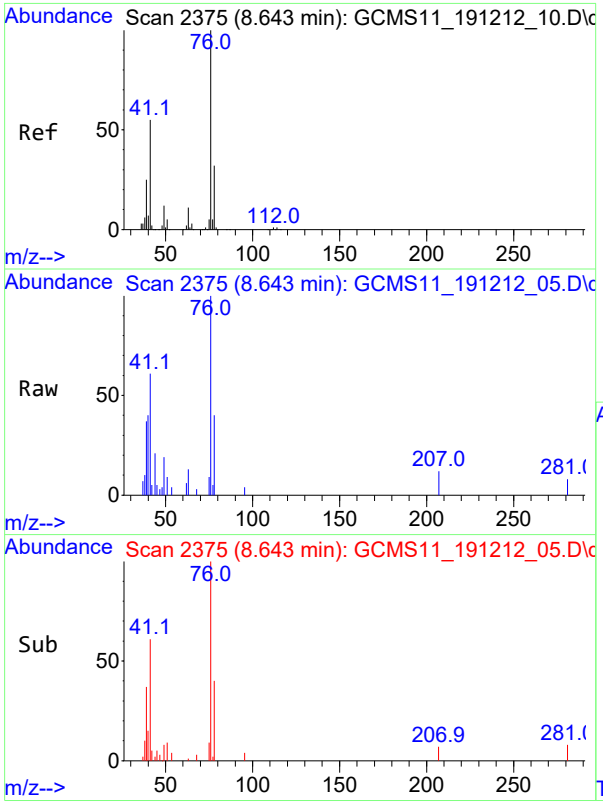


#42
Tetrachloroethene
Concen: 5.75 ng
RT: 8.608 min Scan# 2364
Delta R.T. 0.004 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

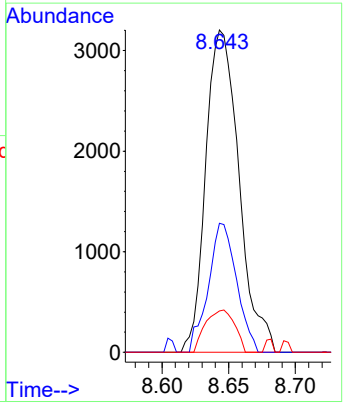


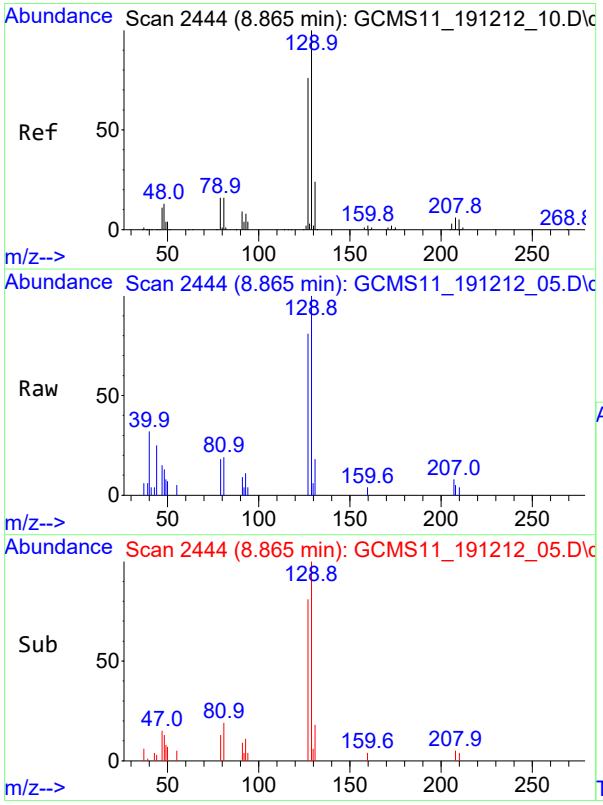


#43
1,3-Dichloropropane
Concen: 8.97 ng
RT: 8.643 min Scan# 2375
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

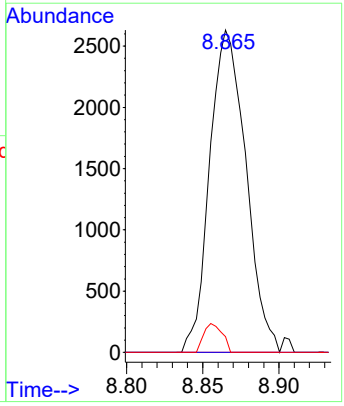


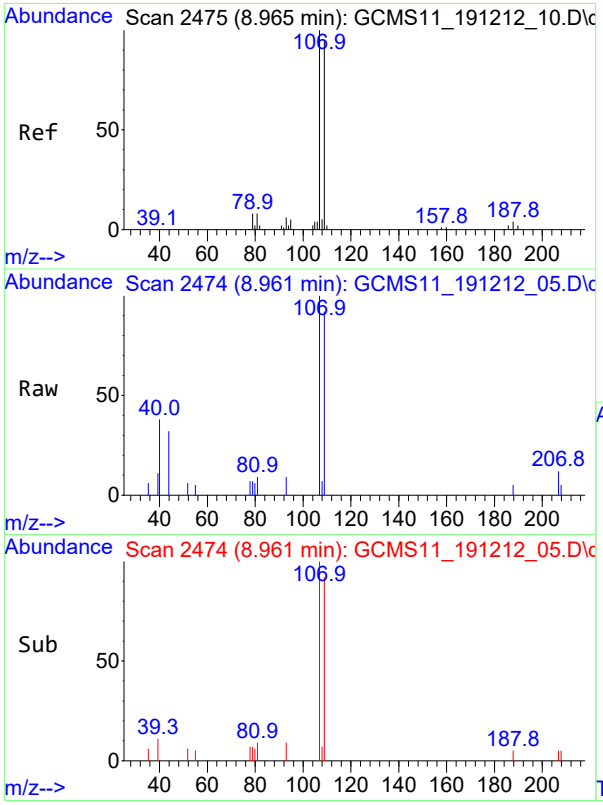


#45
Dibromochloromethane
Concen: 9.15 ng
RT: 8.865 min Scan# 2444
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

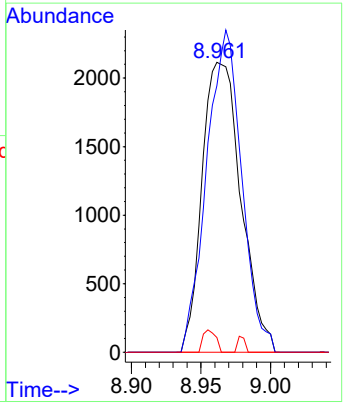


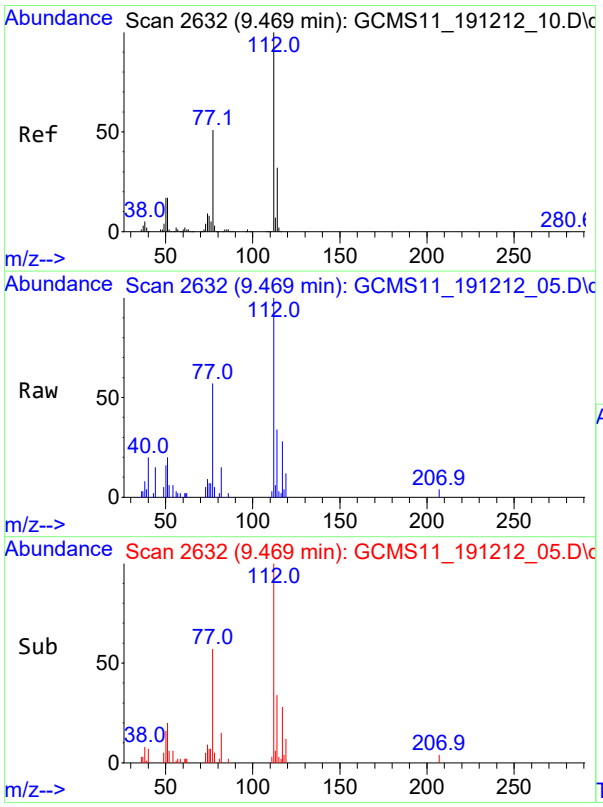


#46
1,2-Dibromoethane (EDB)
Concen: 10.14 ng
RT: 8.961 min Scan# 2474
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

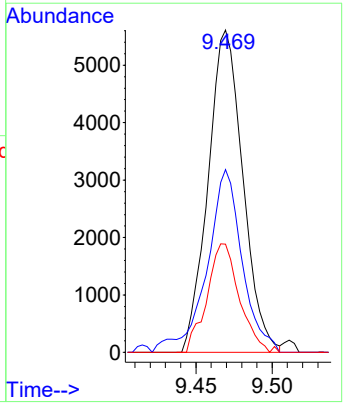


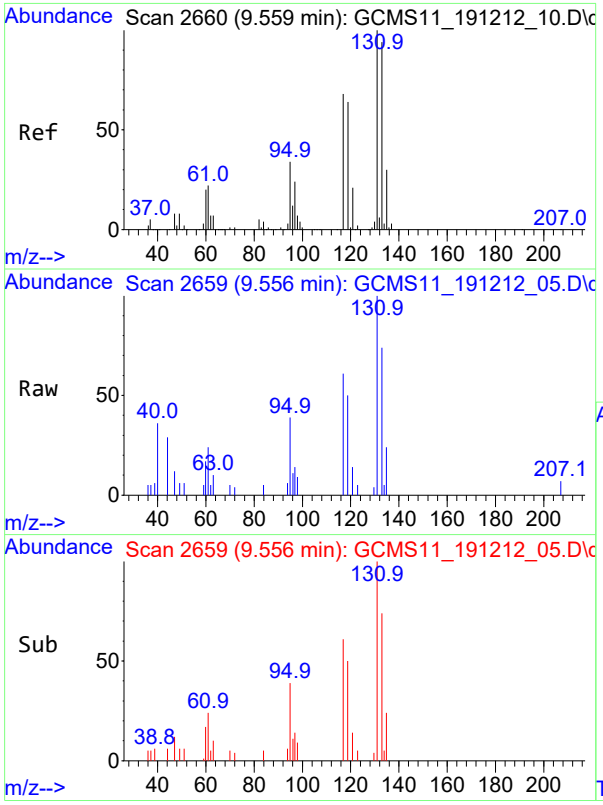


#47
Chlorobenzene
Concen: 8.13 ng
RT: 9.469 min Scan# 2632
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

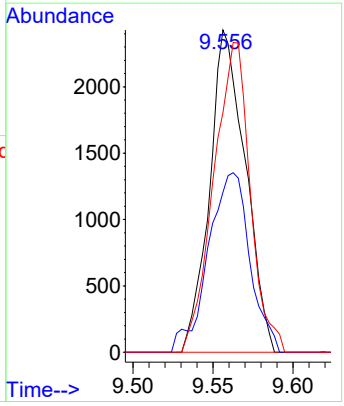


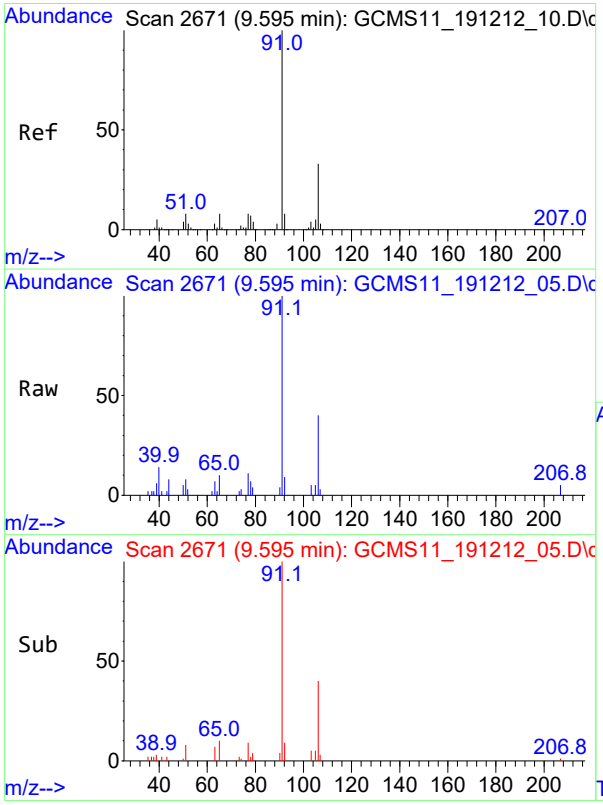


#48
1,1,1,2-Tetrachloroethane
Concen: 8.97 ng
RT: 9.556 min Scan# 2659
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

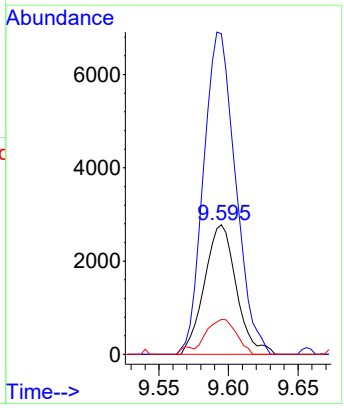


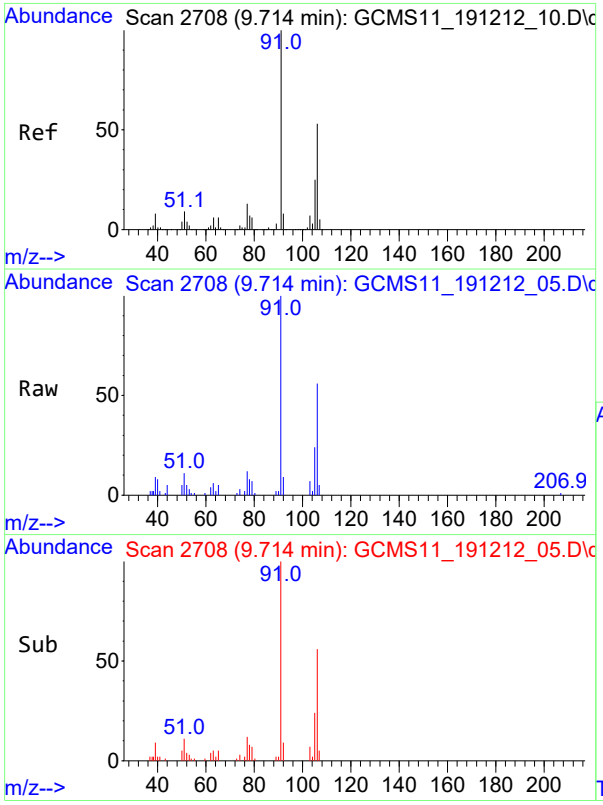


#49
Ethylbenzene
Concen: 7.84 ng
RT: 9.595 min Scan# 2671
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

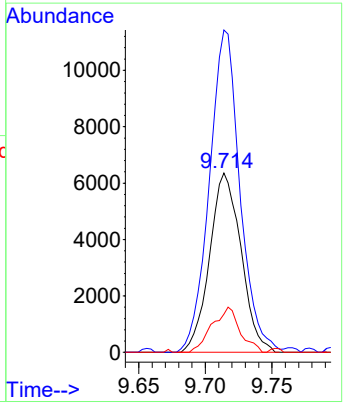


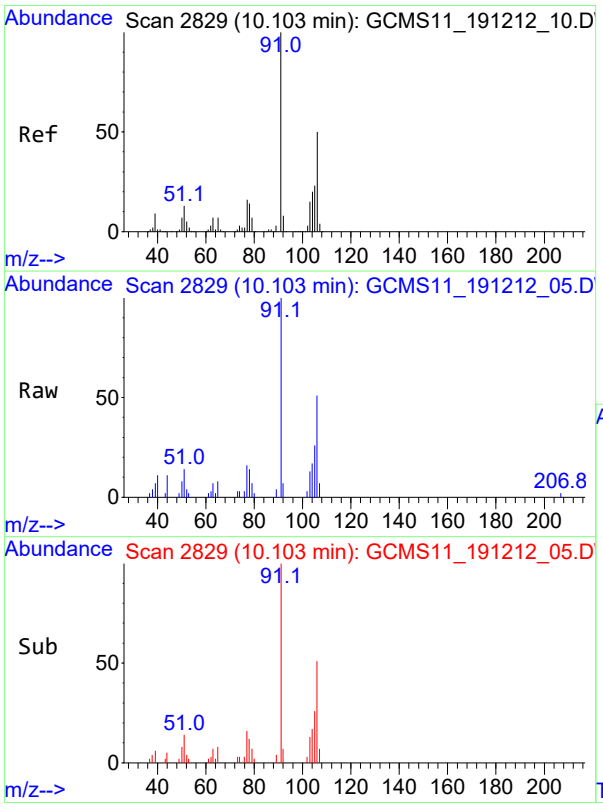


#50
m+p-Xylene
Concen: 14.59 ng
RT: 9.714 min Scan# 2708
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

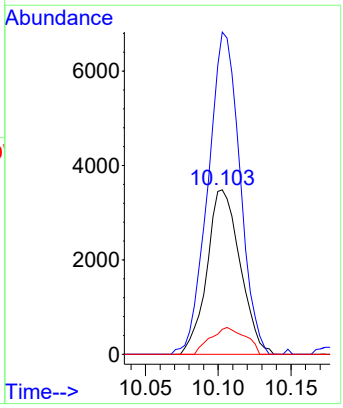


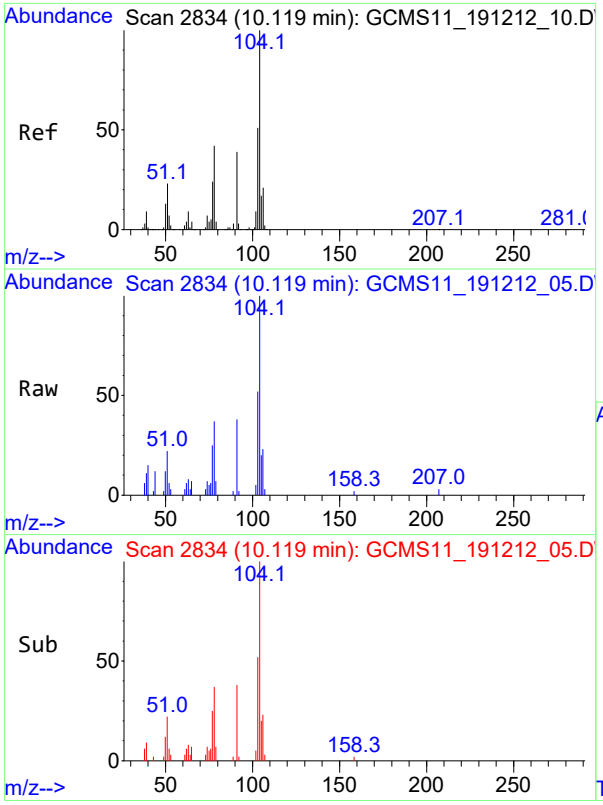


#51
o-Xylene
Concen: 8.00 ng
RT: 10.103 min Scan# 2829
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

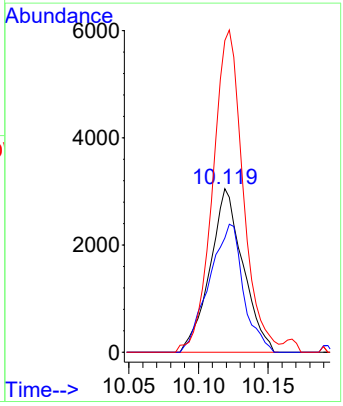


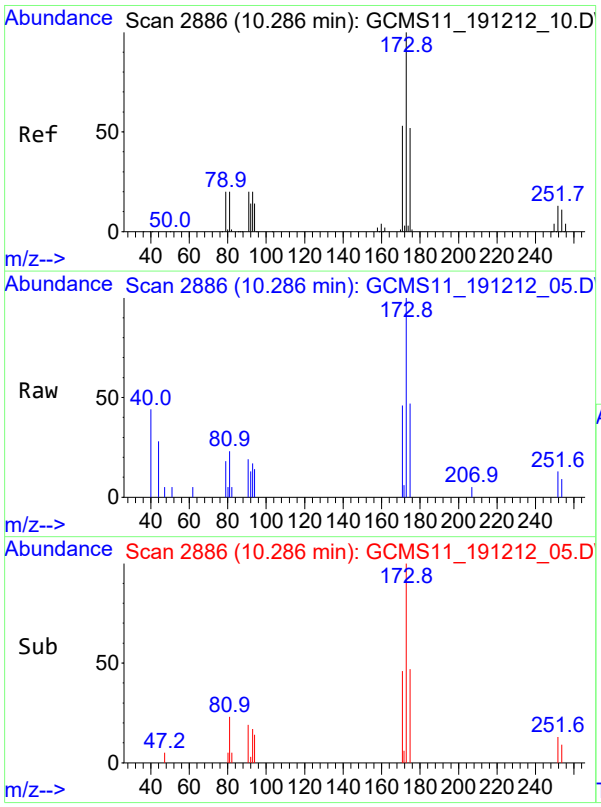


#52
Styrene
Concen: 7.69 ng
RT: 10.119 min Scan# 2834
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

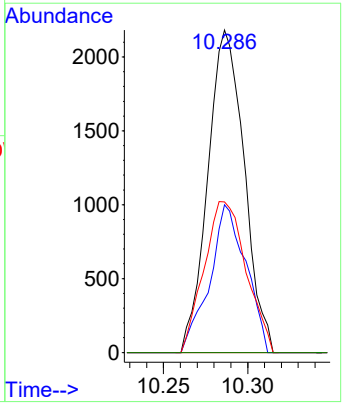


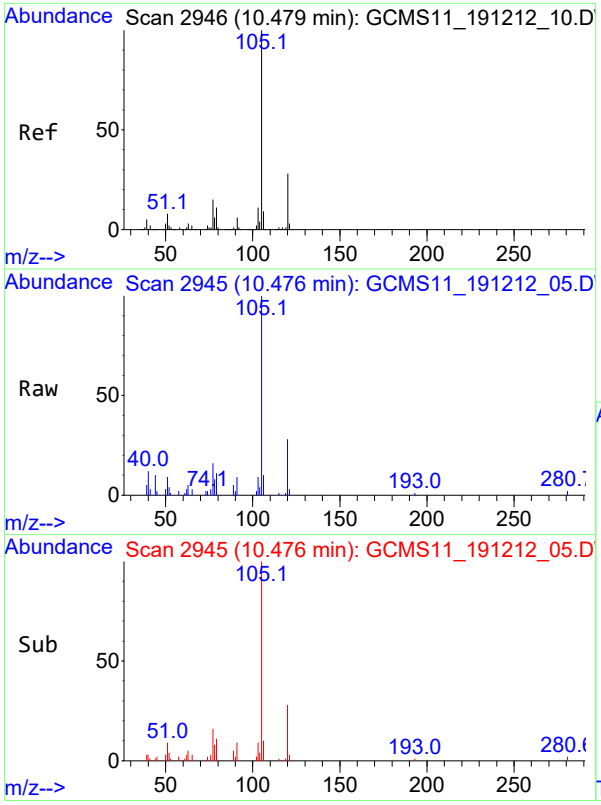


#53
Bromoform
Concen: 9.56 ng
RT: 10.286 min Scan# 2886
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

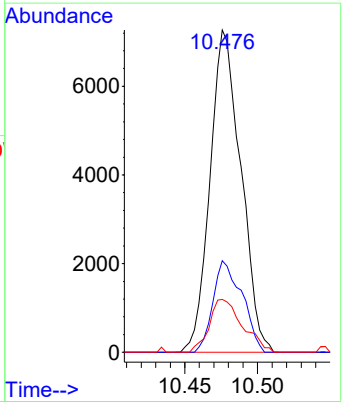


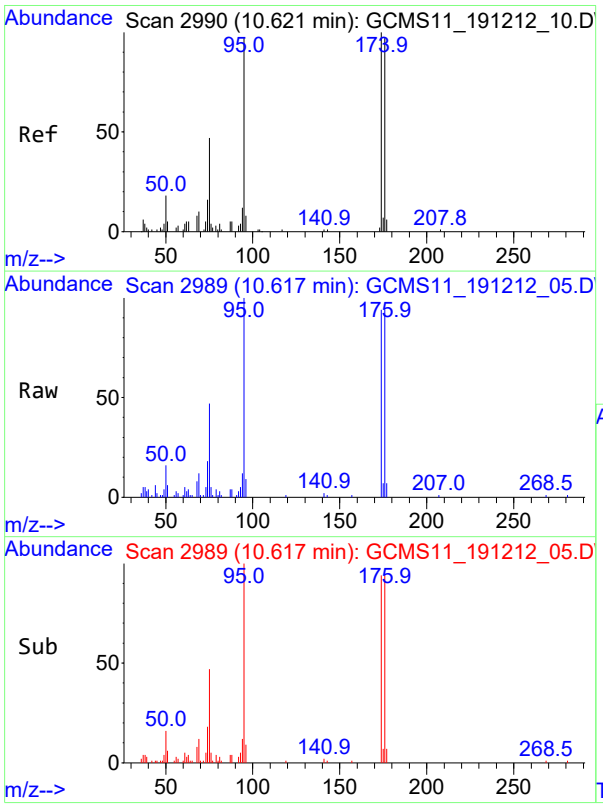


#54
Isopropylbenzene
Concen: 5.88 ng
RT: 10.476 min Scan# 2945
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

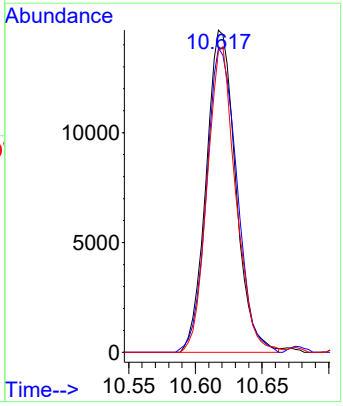


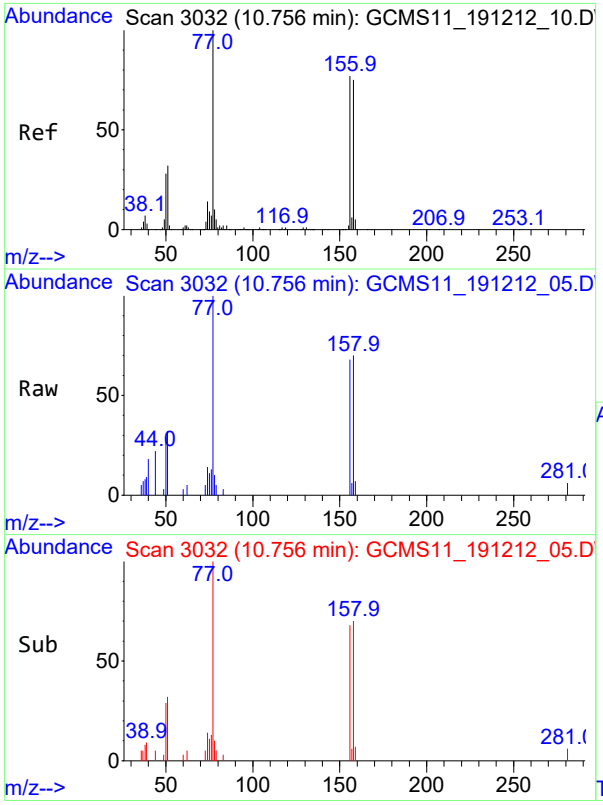


#55
4-BROMOFLUOROBENZENE
Concen: 48.94 ng
RT: 10.617 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

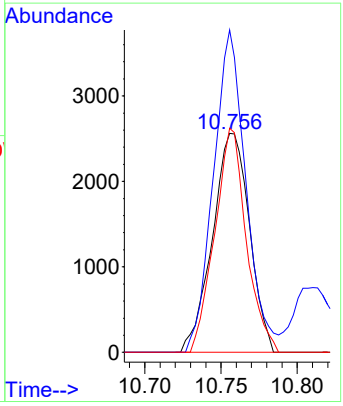


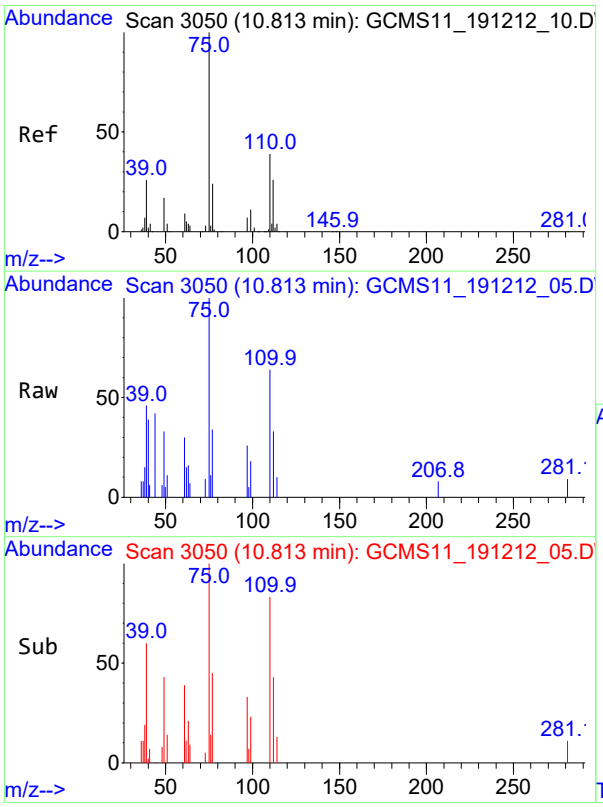


#56
Bromobenzene
Concen: 9.02 ng
RT: 10.756 min Scan# 3032
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

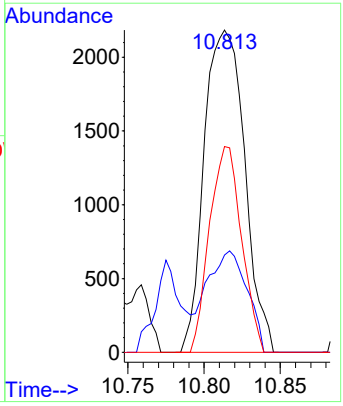


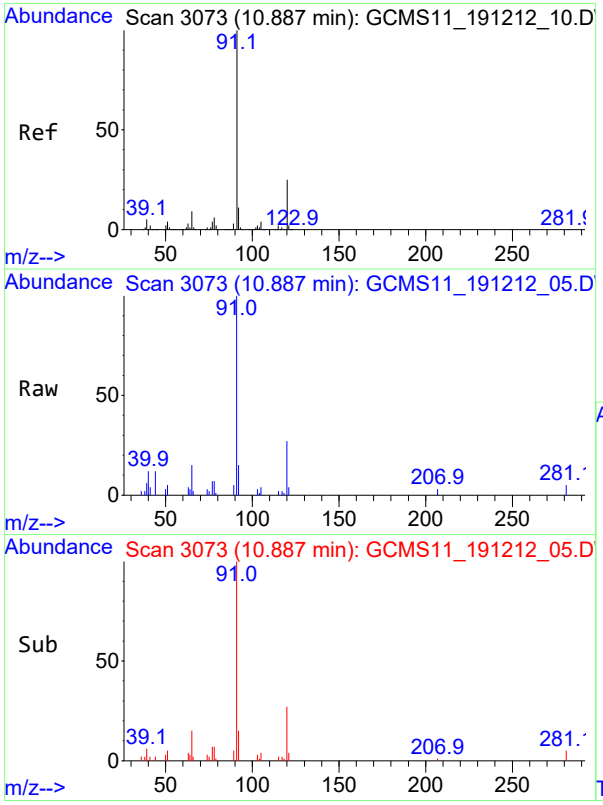


#57
1,2,3-Trichloropropane
Concen: 9.63 ng
RT: 10.813 min Scan# 3050
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

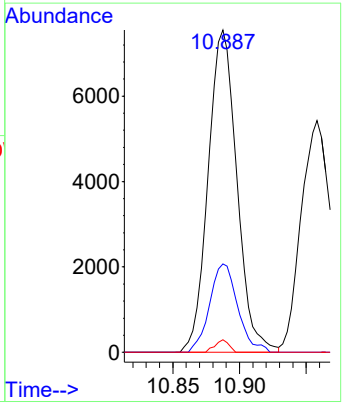


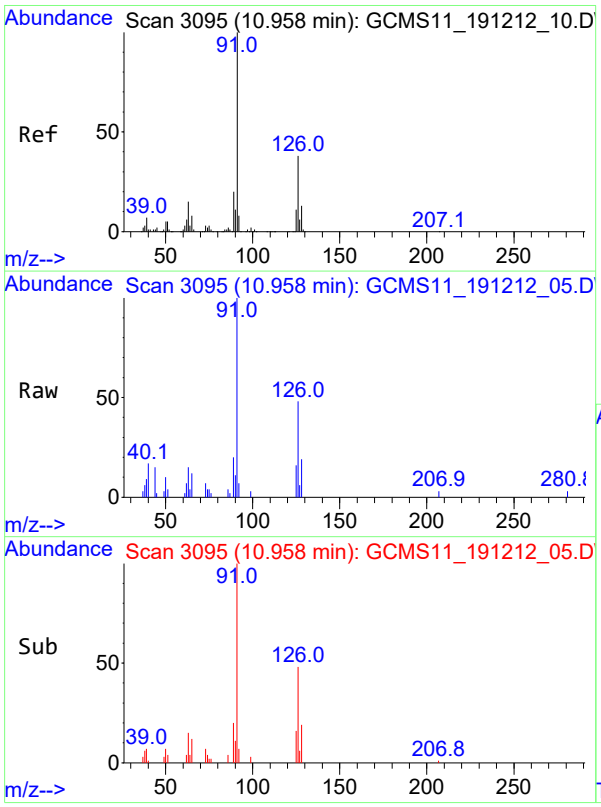


#58
n-Propylbenzene
Concen: 5.53 ng
RT: 10.887 min Scan# 3073
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

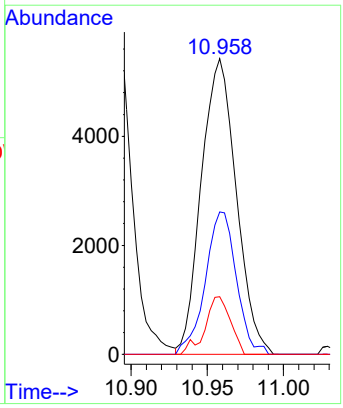


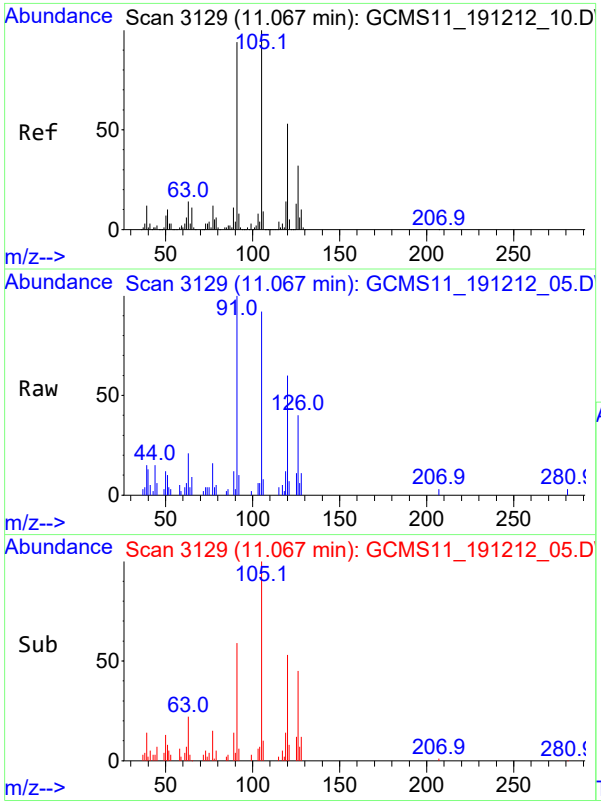


#59
2-Chlorotoluene
Concen: 7.21 ng
RT: 10.958 min Scan# 3095
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

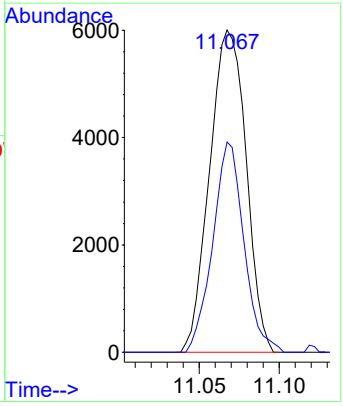


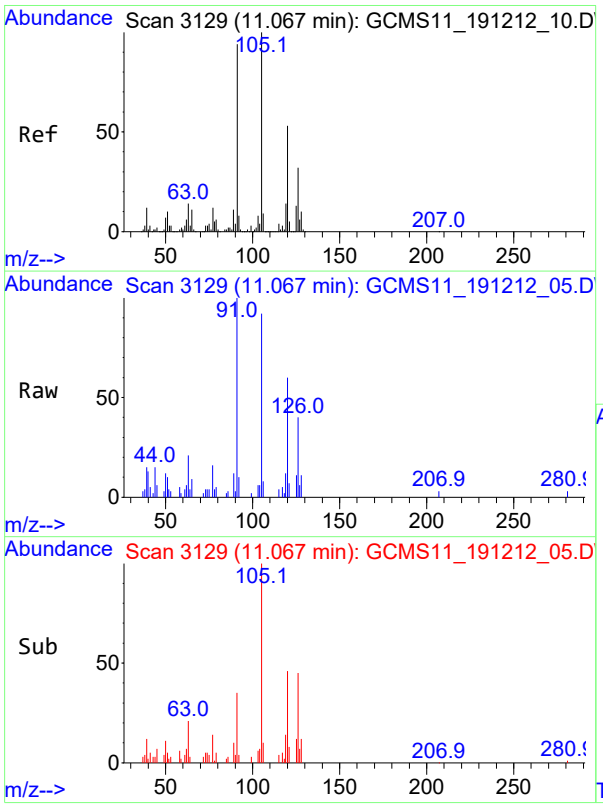


#60
1,3,5-Trimethylbenzene
Concen: 6.44 ng
RT: 11.067 min Scan# 3129
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

Tgt Ion:105 Resp: 9562

Ion	Ratio	Lower	Upper
105	100		
120	55.7	22.4	82.4

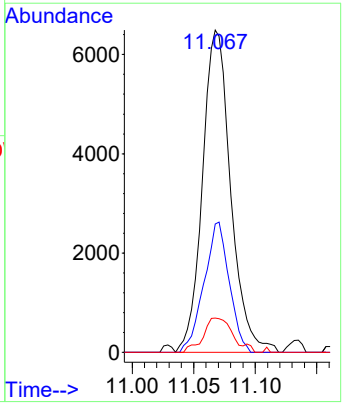


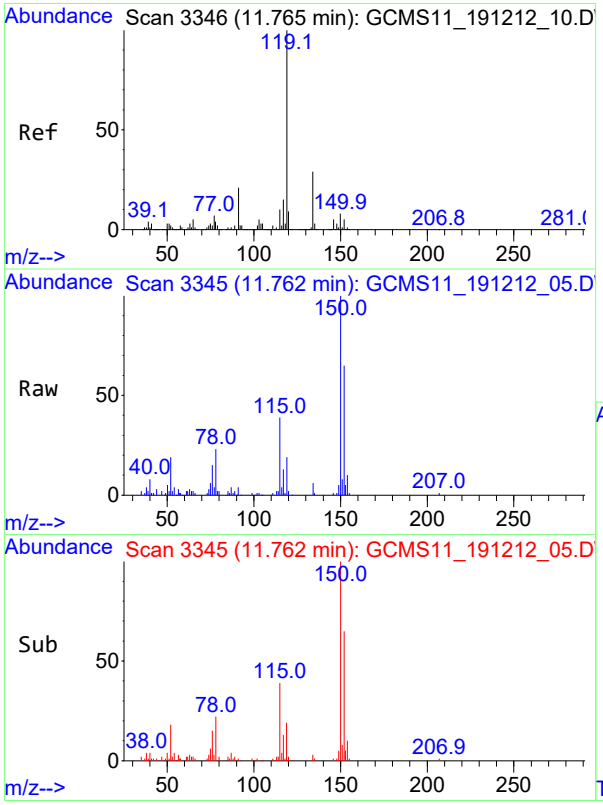


#61
4-Chlorotoluene
Concen: 7.43 ng
RT: 11.067 min Scan# 3129
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

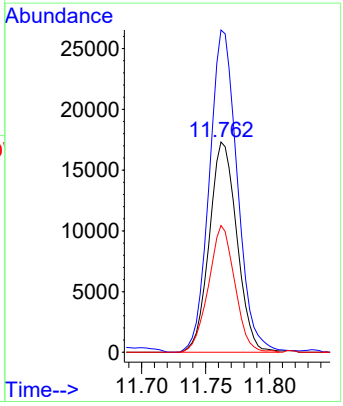


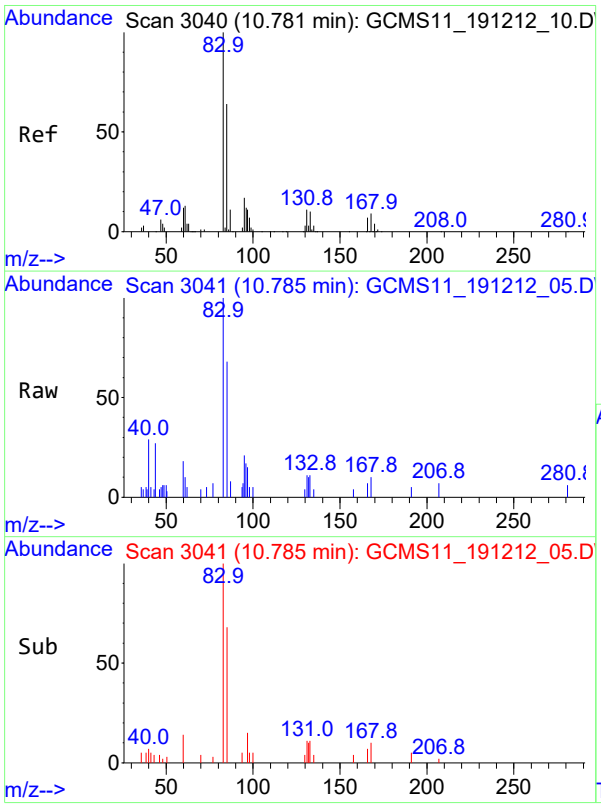


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.762 min Scan# 3345
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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#

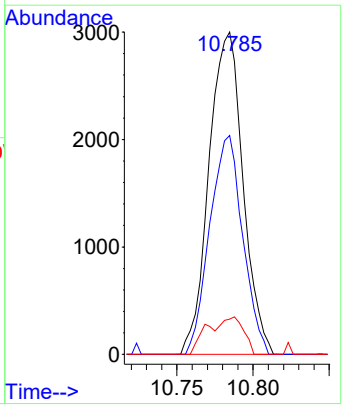


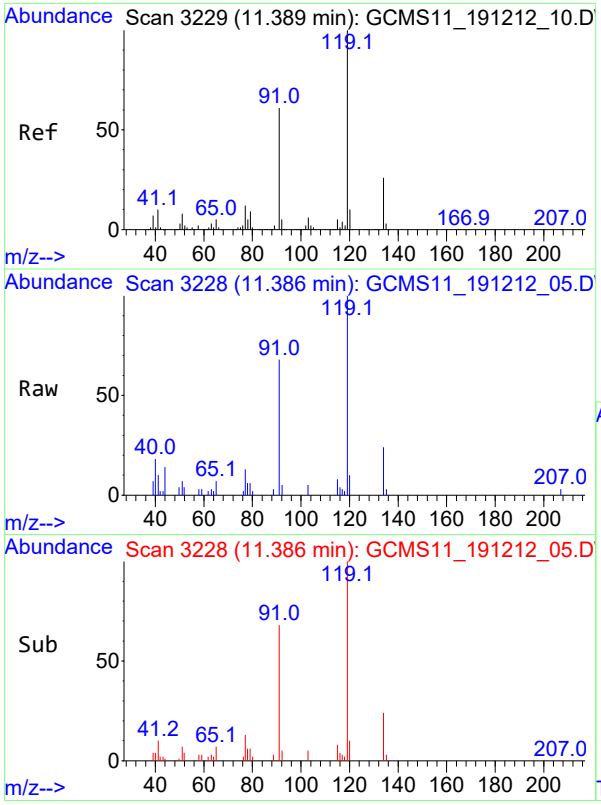


#63
1,1,2,2-Tetrachloroethane
Concen: 9.99 ng
RT: 10.785 min Scan# 3041
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

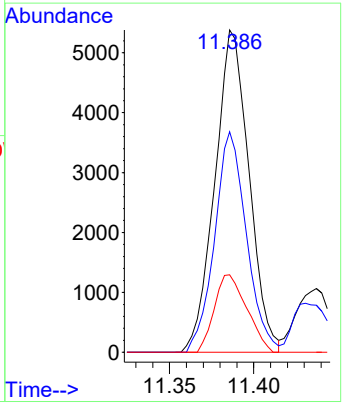


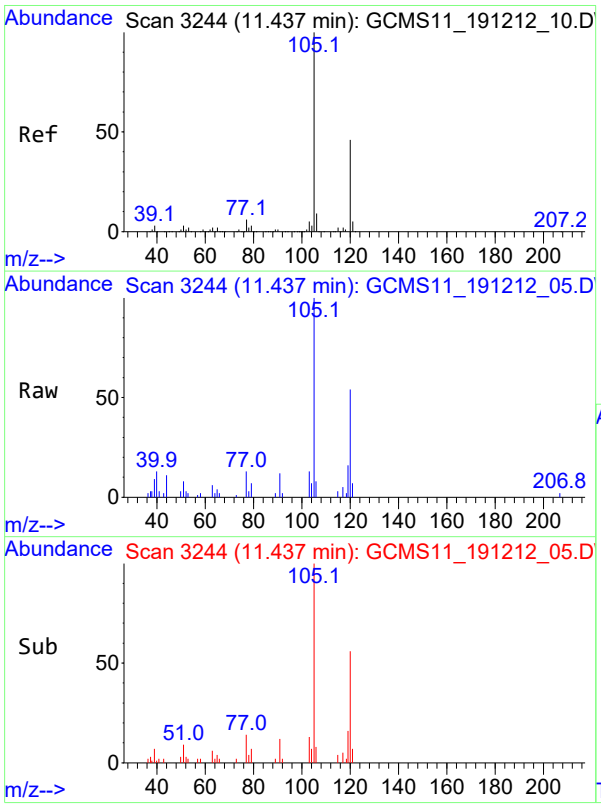


#64
tert-Butylbenzene
Concen: 6.64 ng
RT: 11.386 min Scan# 3228
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

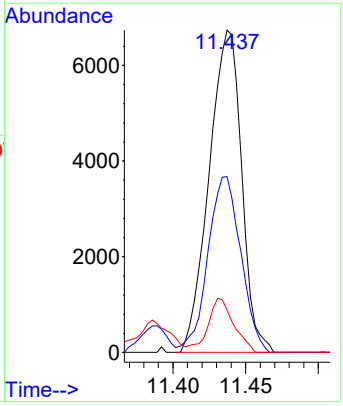


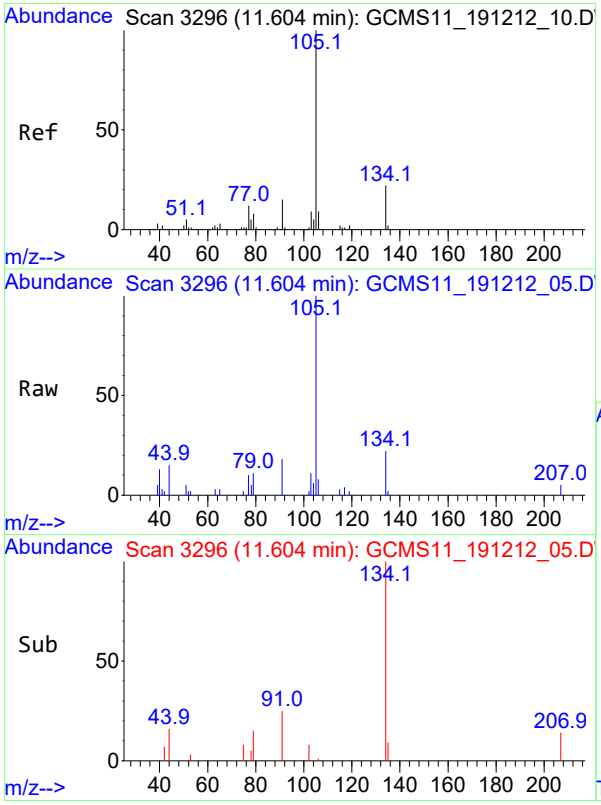


#65
1,2,4-Trimethylbenzene
Concen: 7.48 ng
RT: 11.437 min Scan# 3244
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

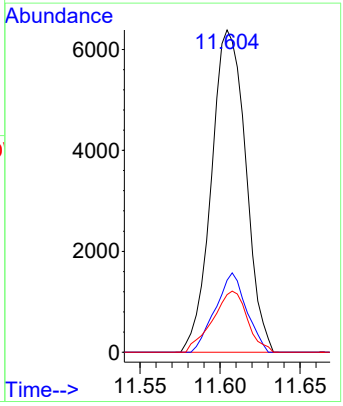


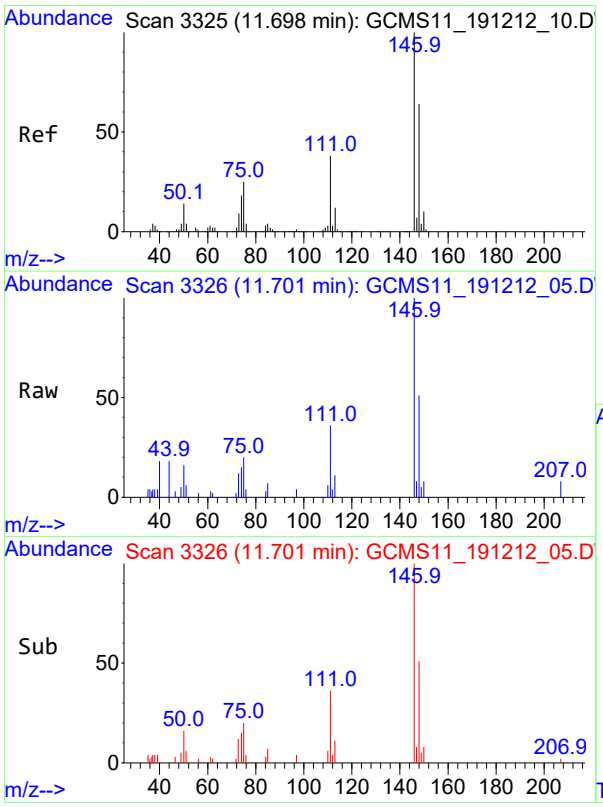


#66
sec-Butylbenzene
Concen: 5.55 ng
RT: 11.604 min Scan# 3296
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

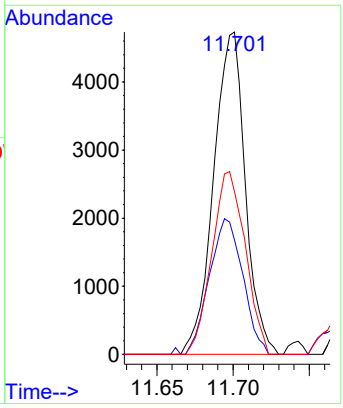


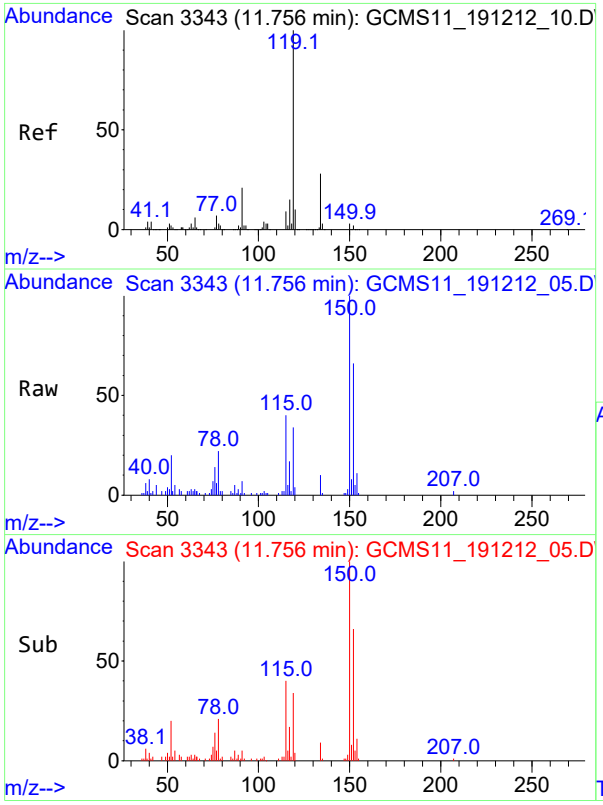


#67
1,3-Dichlorobenzene
Concen: 8.53 ng
RT: 11.701 min Scan# 3326
Delta R.T. 0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

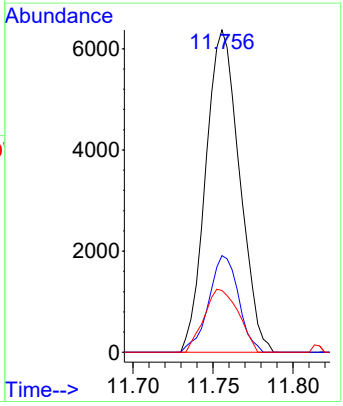


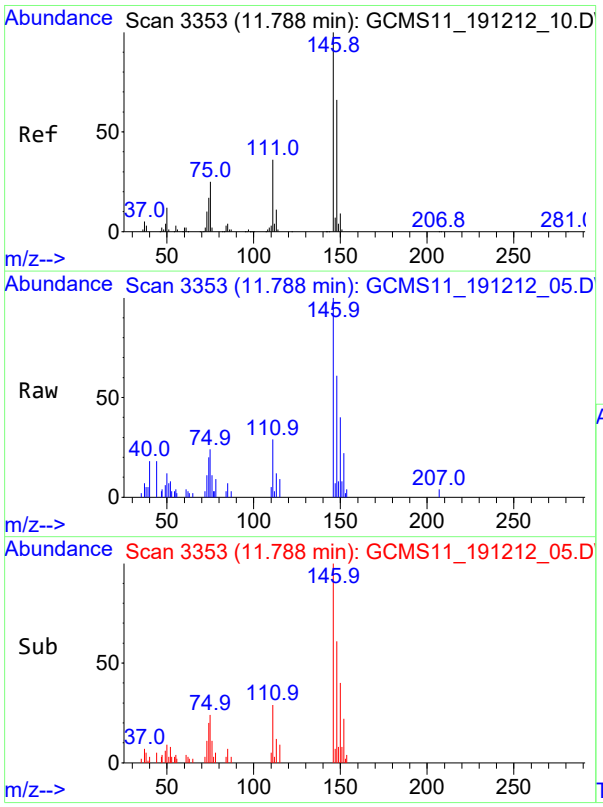


#68
p-Isopropyltoluene
Concen: 6.21 ng
RT: 11.756 min Scan# 3343
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

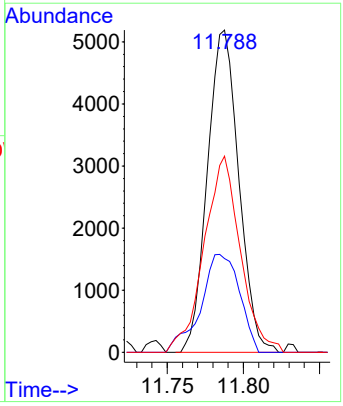


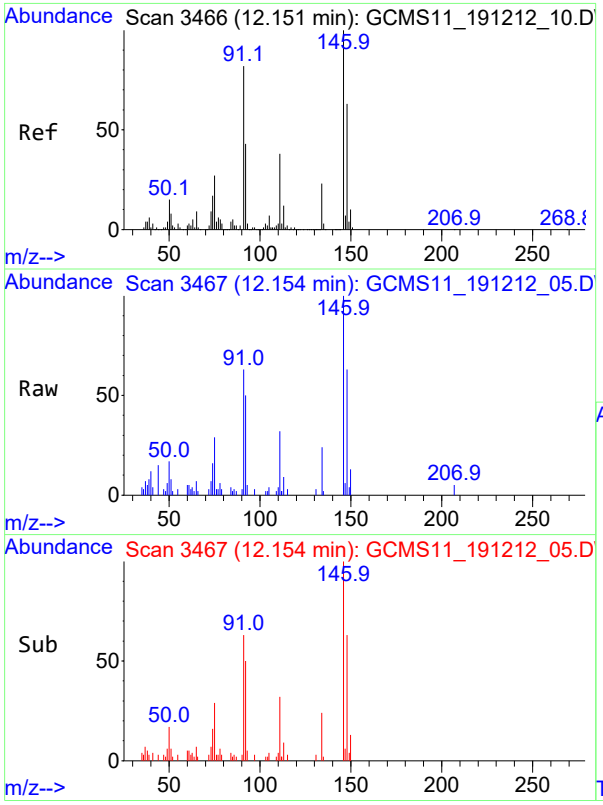


#69
1,4-Dichlorobenzene
Concen: 9.10 ng
RT: 11.788 min Scan# 3353
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

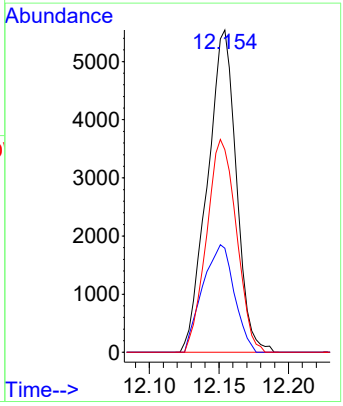


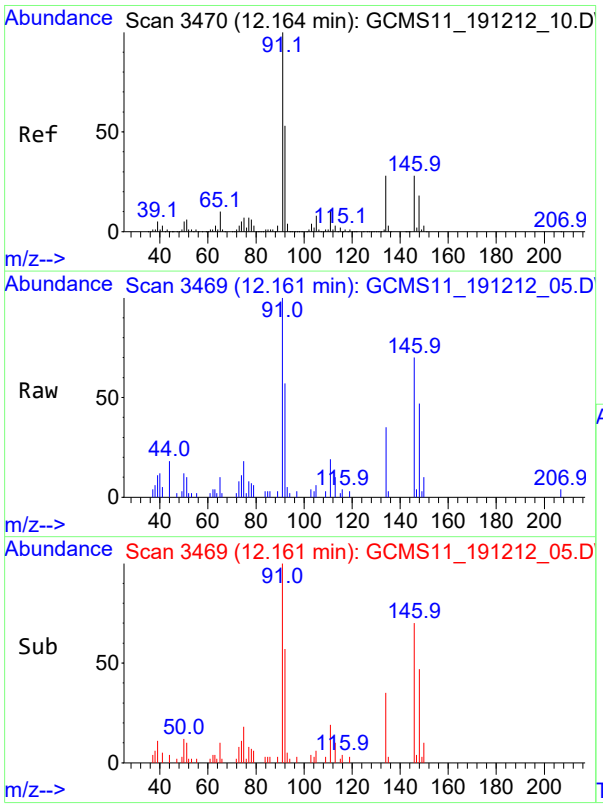


#70
1,2-Dichlorobenzene
Concen: 9.23 ng
RT: 12.154 min Scan# 3467
Delta R.T. 0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

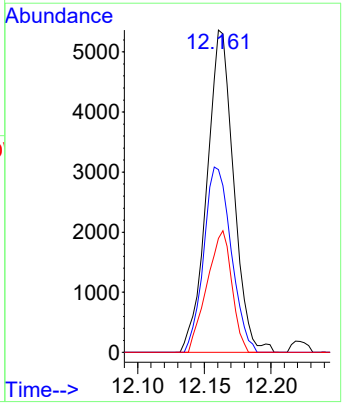


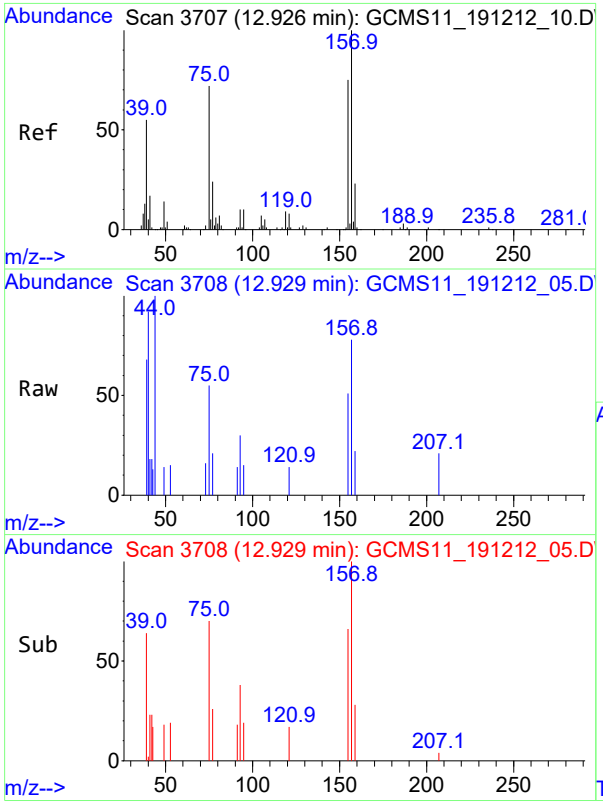


#71
n-Butylbenzene
Concen: 5.59 ng
RT: 12.161 min Scan# 3469
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

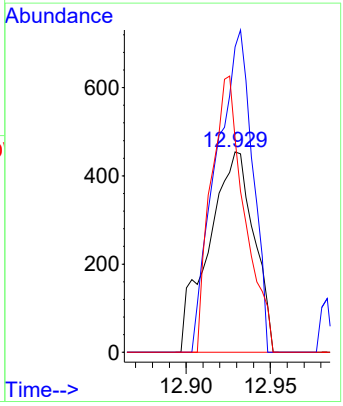


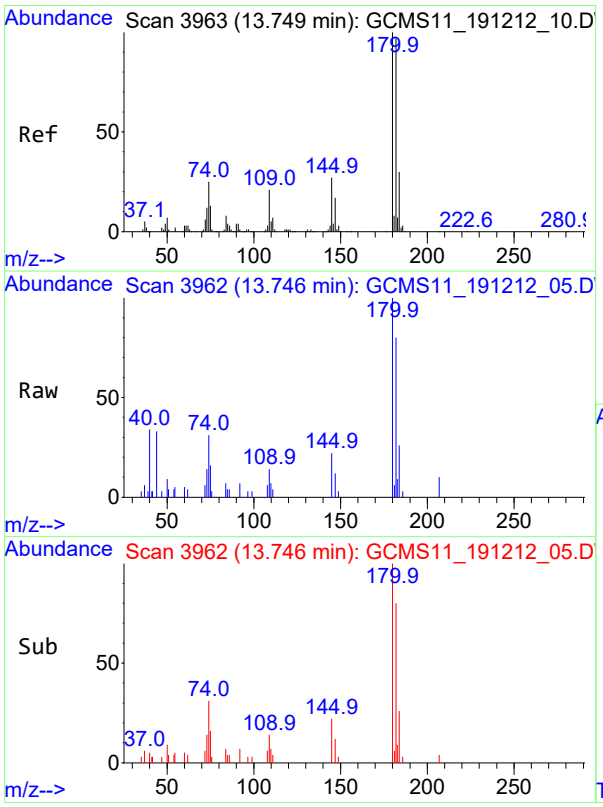


#72
1,2-Dibromo-3-chloropropane
Concen: 9.55 ng
RT: 12.929 min Scan# 3708
Delta R.T. 0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

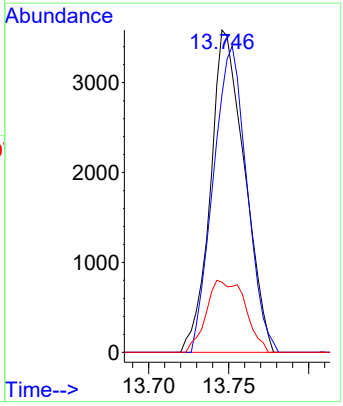


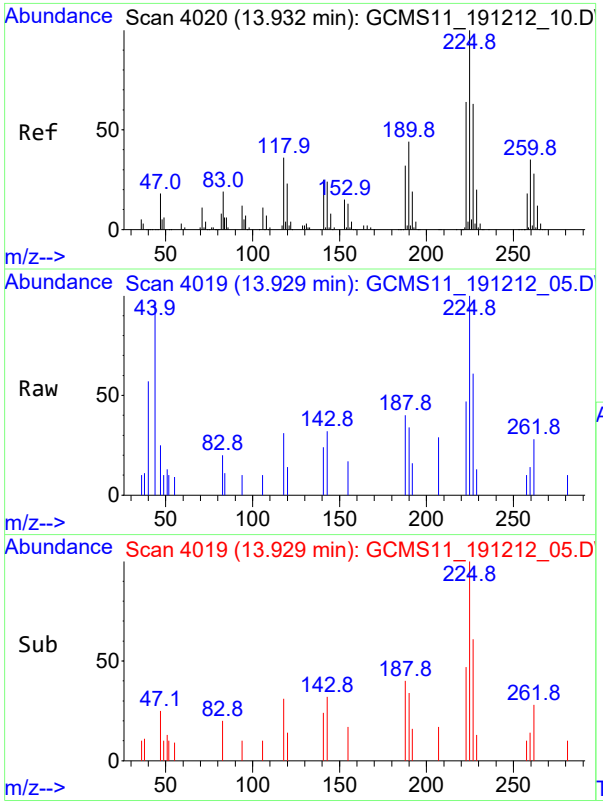


#73
1,2,4-Trichlorobenzene
Concen: 9.09 ng
RT: 13.746 min Scan# 3962
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

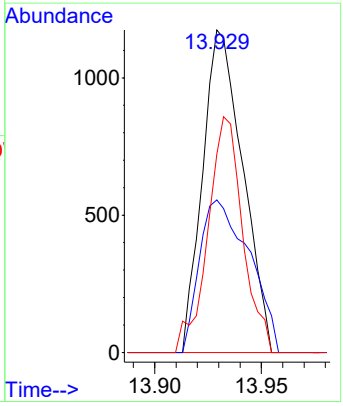


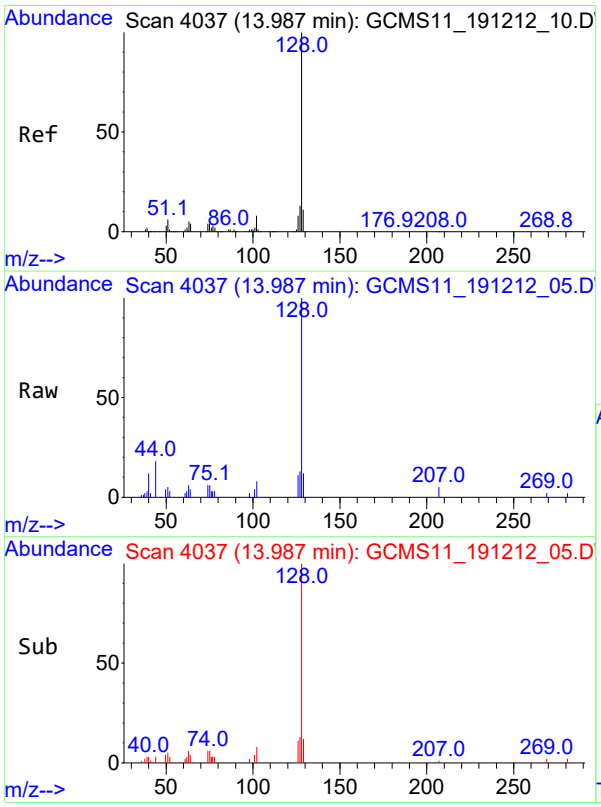


#74
Hexachlorobutadiene
Concen: 5.64 ng
RT: 13.929 min Scan# 4019
Delta R.T. -0.003 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

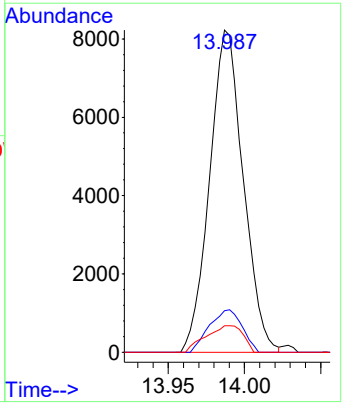


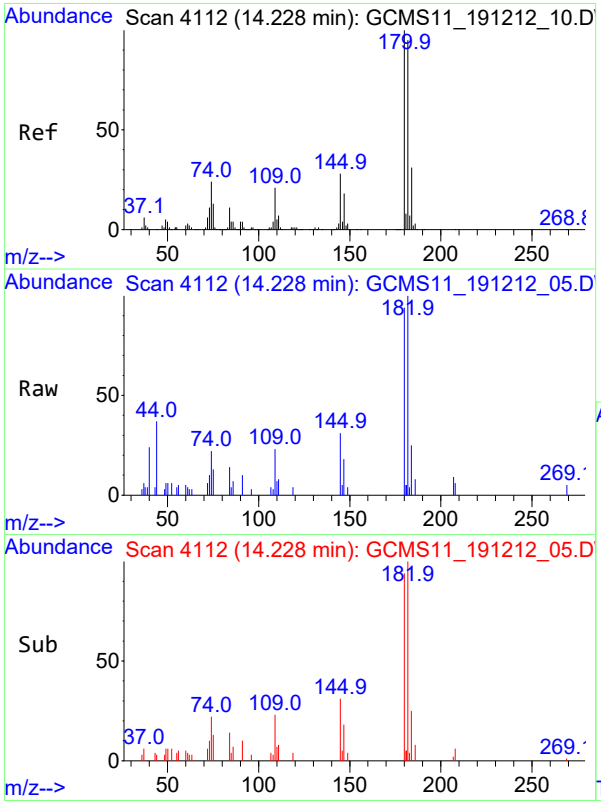


#75
Naphthalene
Concen: 8.43 ng
RT: 13.987 min Scan# 4037
Delta R.T. -0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

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

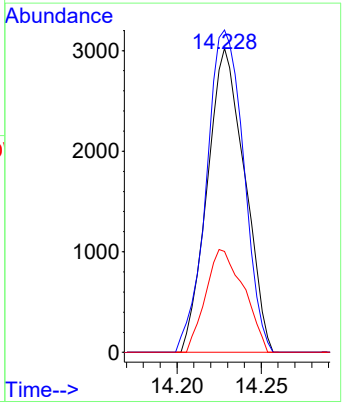




#76
1,2,3-Trichlorobenzene
Concen: 7.55 ng
RT: 14.228 min Scan# 4112
Delta R.T. 0.000 min
Lab File: GCMS11_191212_05.D
Acq: 12 Dec 2019 1:06 pm

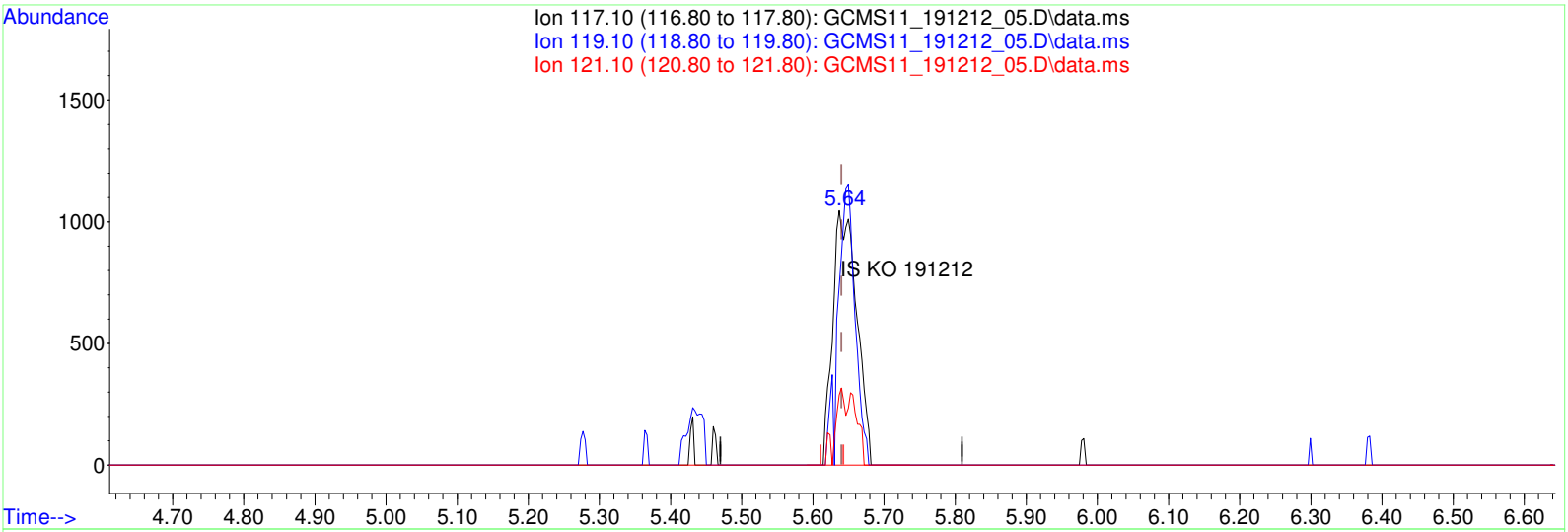
Tgt Ion:180 Resp: 4677

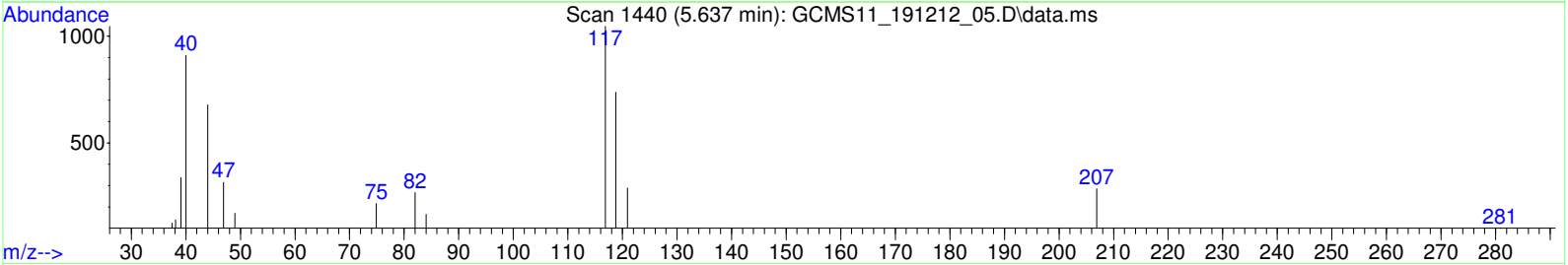
Ion	Ratio	Lower	Upper
180	100		
182	105.5	66.7	126.7
145	34.5	0.0	58.4

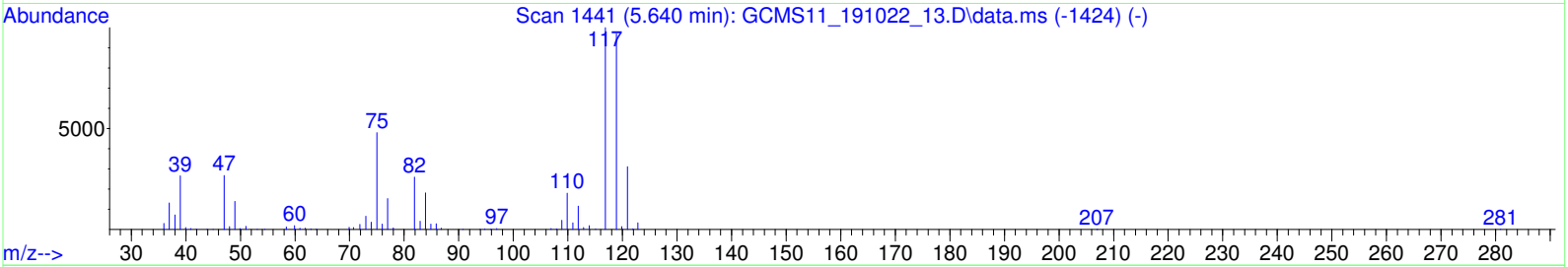


Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_05.D
Acq On : 12 Dec 2019 1:06 pm
Operator : ko
Sample : ICAL 1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 2 Sample Multiplier: 1

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)

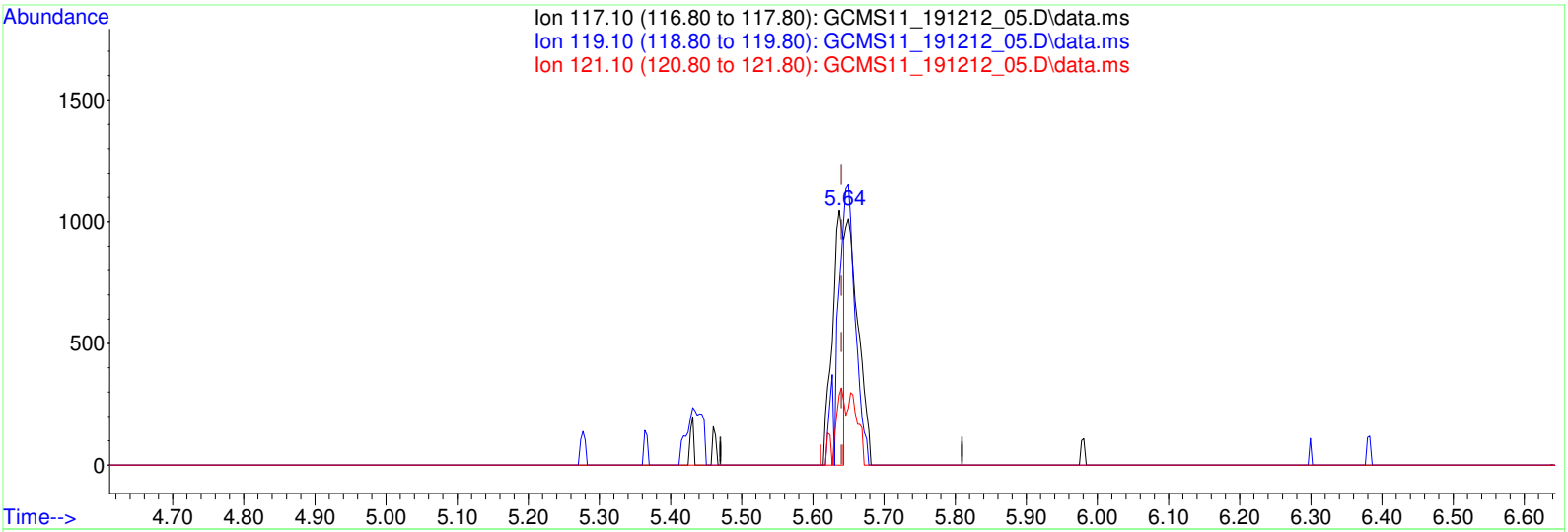
5.637min (-0.003) 4.47 ng m

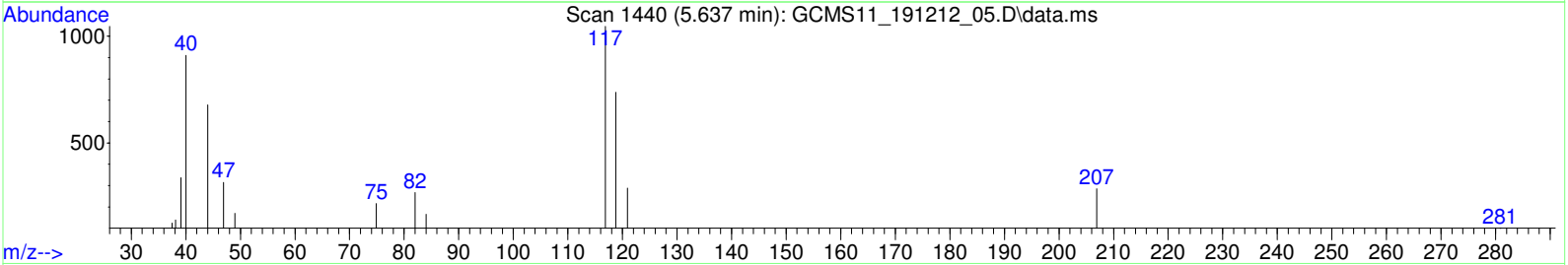
response 2447

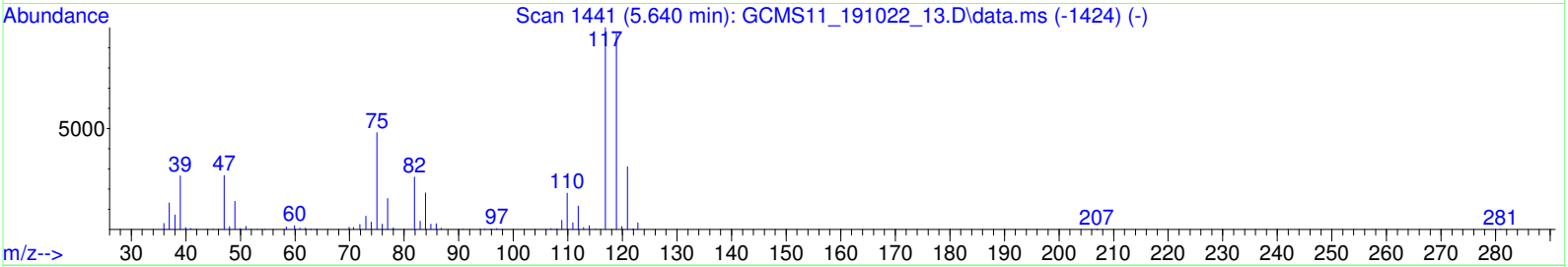
Ion	Exp%	Act%
117.10	100.00	100.00
119.10	97.60	0.00#
121.10	31.10	10.99
0.00	0.00	0.00

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

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

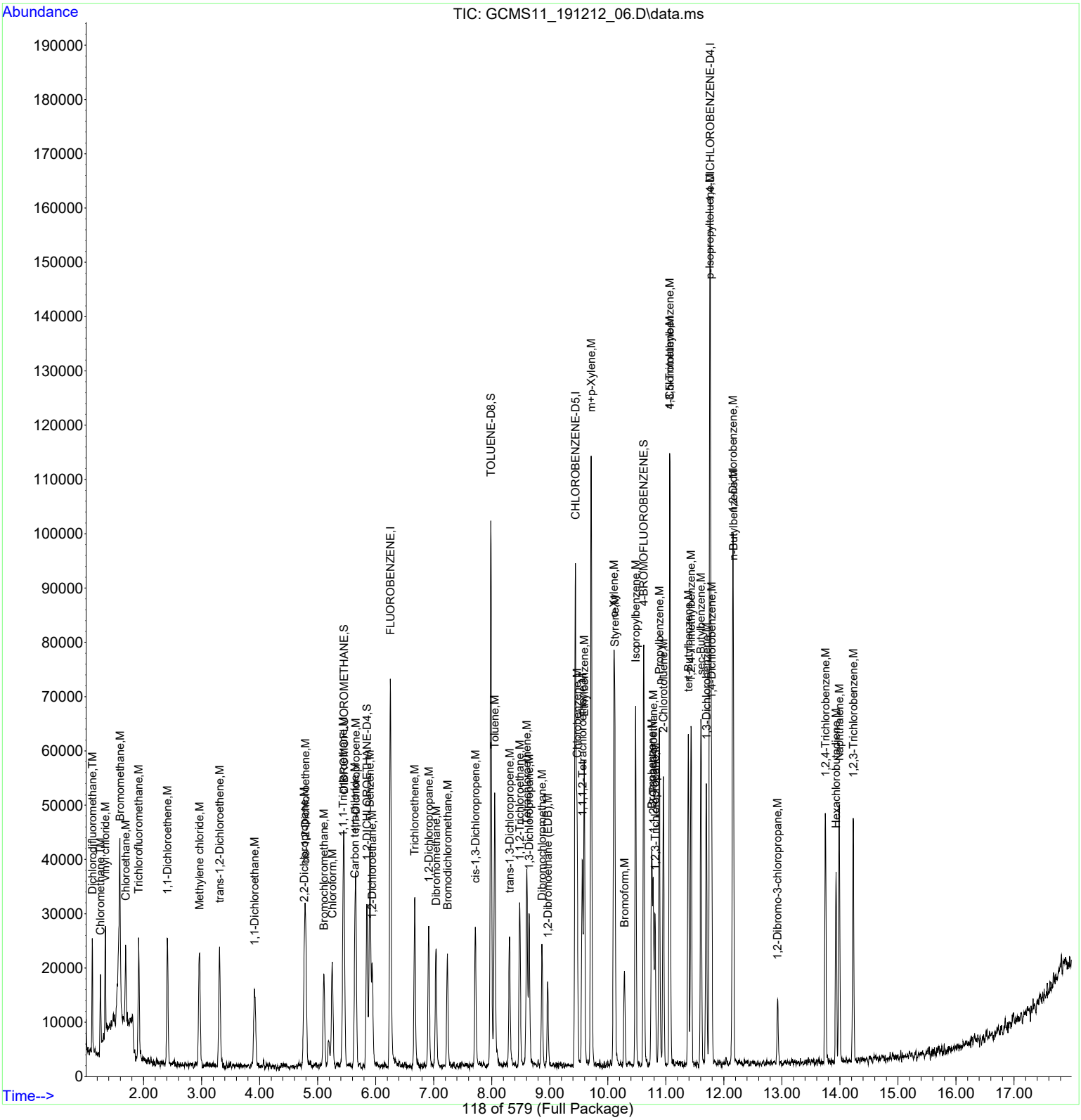
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
58) n-Propylbenzene	10.887	91	44989	21.87 ng		97
59) 2-Chlorotoluene	10.958	91	26895	22.37 ng		98
60) 1,3,5-Trimethylbenzene	11.067	105	31286	21.00 ng		94
61) 4-Chlorotoluene	11.067	91	30926	22.05 ng		98
63) 1,1,2,2-Tetrachloroethane	10.781	83	12257	25.04 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

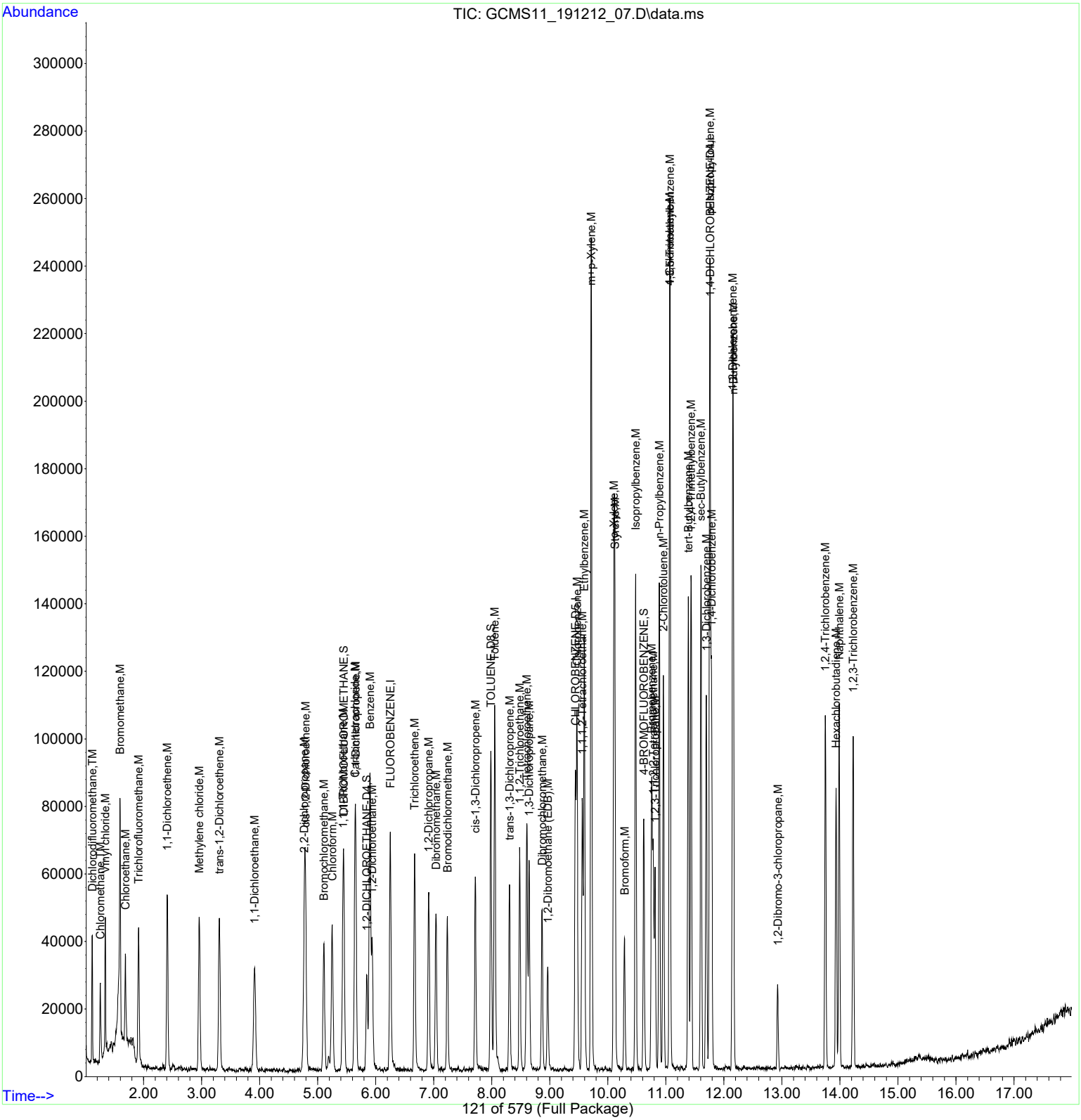
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58)	n-Propylbenzene	10.887	91	105541	57.31	ng		98
59)	2-Chlorotoluene	10.958	91	59712	55.48	ng		99
60)	1,3,5-Trimethylbenzene	11.070	105	71405	53.54	ng		99
61)	4-Chlorotoluene	11.067	91	68876	54.86	ng		99
63)	1,1,2,2-Tetrachloroethane	10.781	83	27500	59.58	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



121 of 579 (Full Package)

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

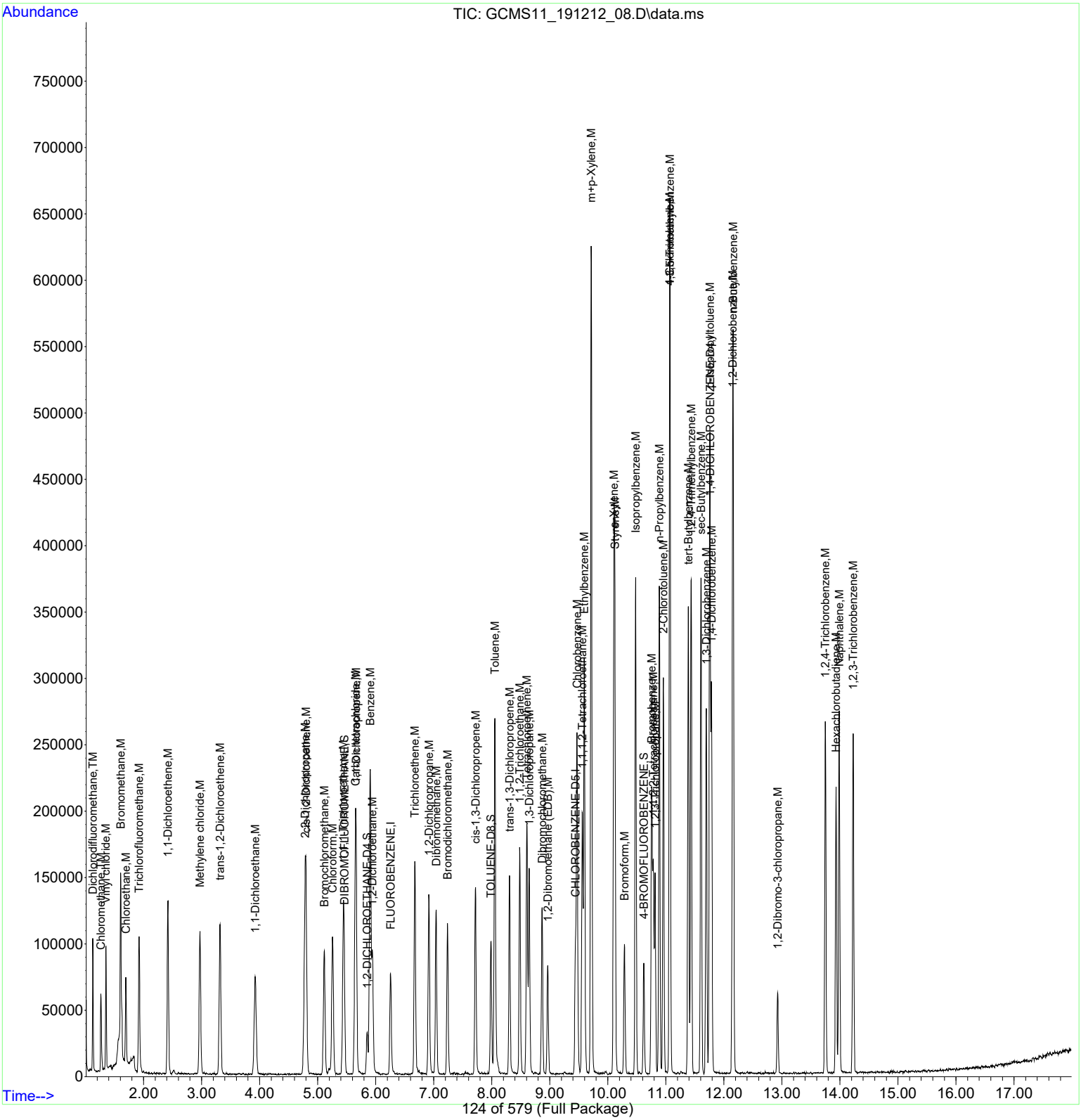
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58)	n-Propylbenzene	10.887	91	263351	119.26	ng		100
59)	2-Chlorotoluene	10.958	91	153299	118.80	ng		100
60)	1,3,5-Trimethylbenzene	11.071	105	185221	115.82	ng		100
61)	4-Chlorotoluene	11.067	91	176286	117.10	ng		100
63)	1,1,2,2-Tetrachloroethane	10.784	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

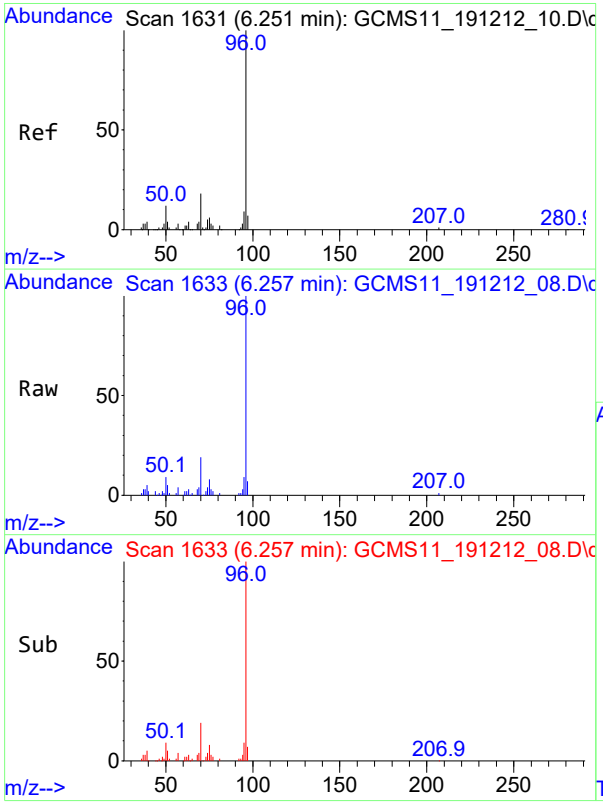
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

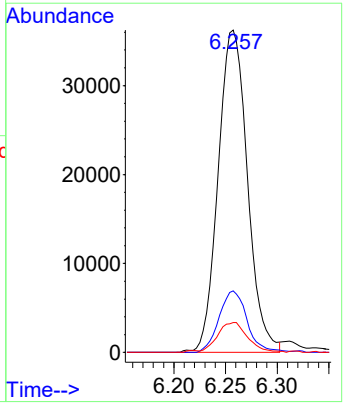


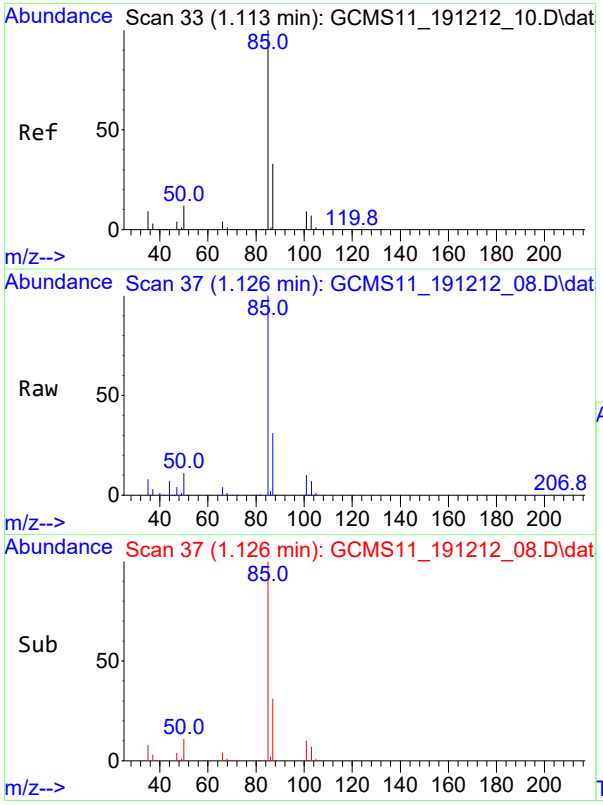


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.257 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

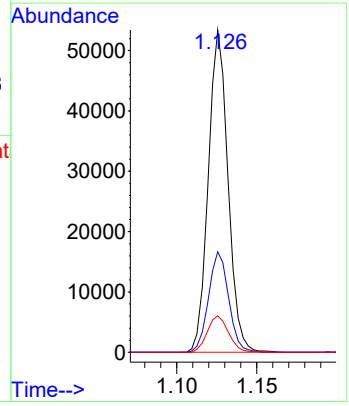


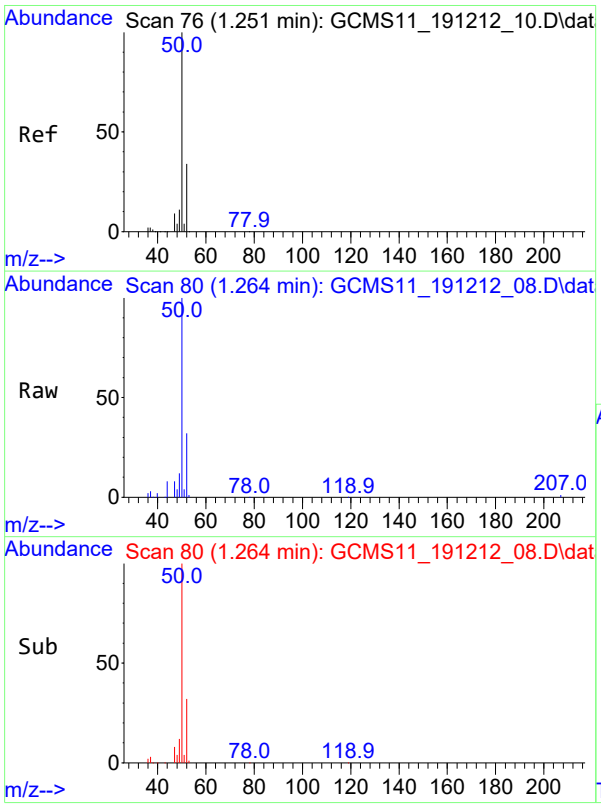


#2
Dichlorodifluoromethane
Concen: 137.64 ng
RT: 1.126 min Scan# 37
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

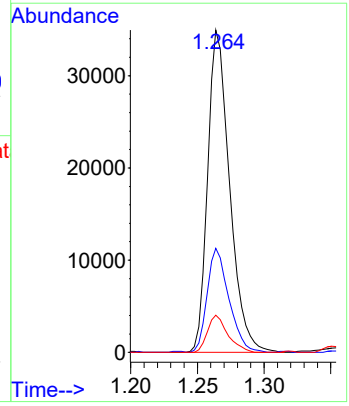


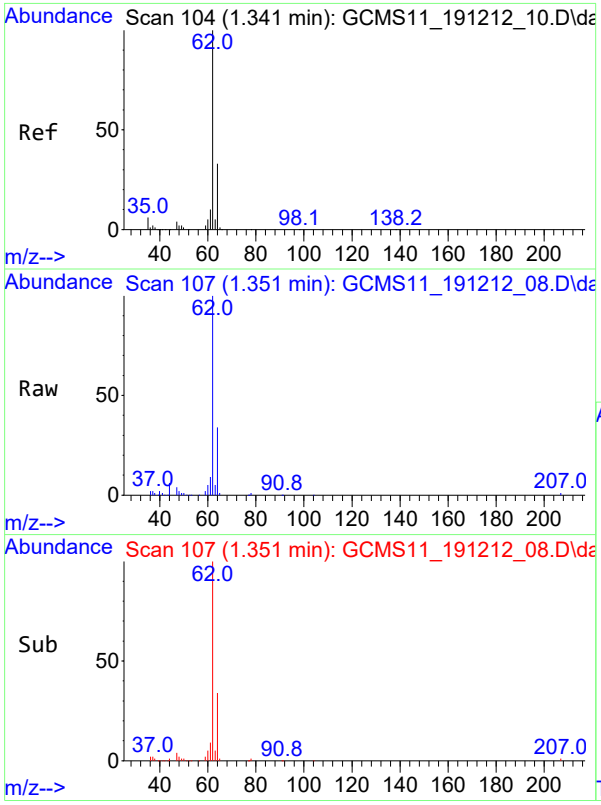


#3
Chloromethane
Concen: 131.76 ng
RT: 1.264 min Scan# 80
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

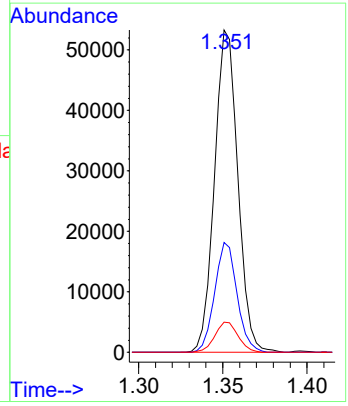


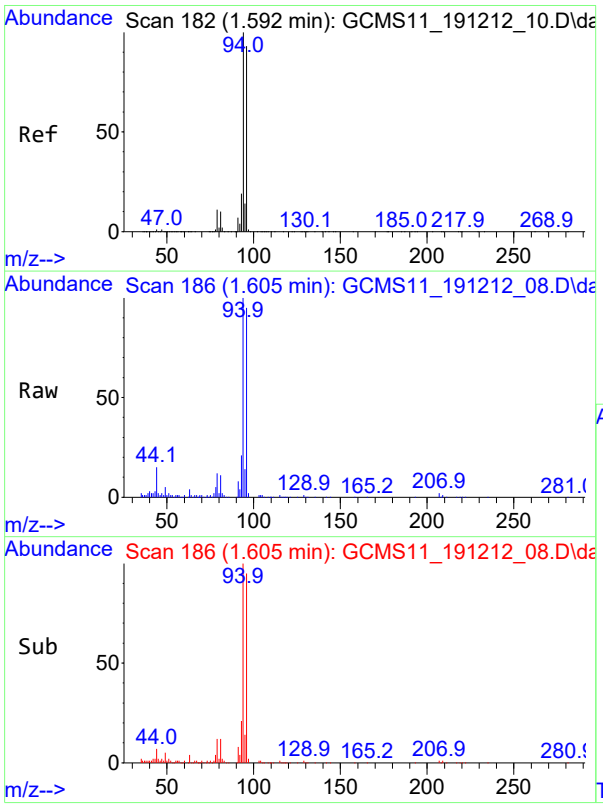


#4
Vinyl chloride
Concen: 133.84 ng
RT: 1.351 min Scan# 107
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

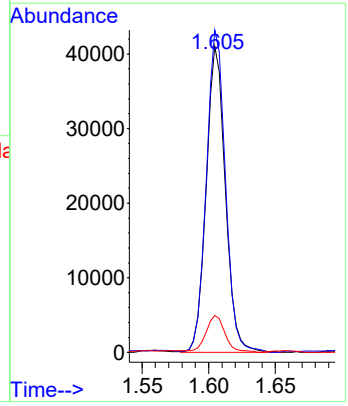


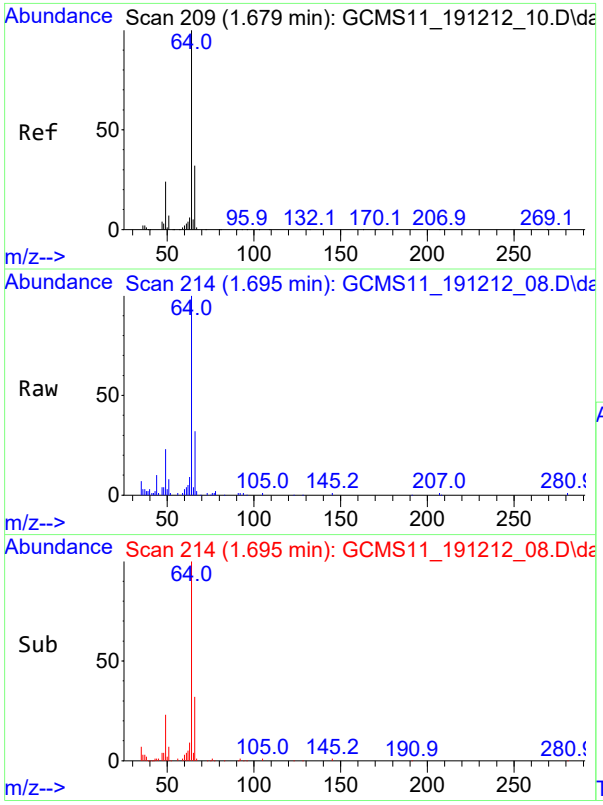


#5
Bromomethane
Concen: 127.55 ng
RT: 1.605 min Scan# 186
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

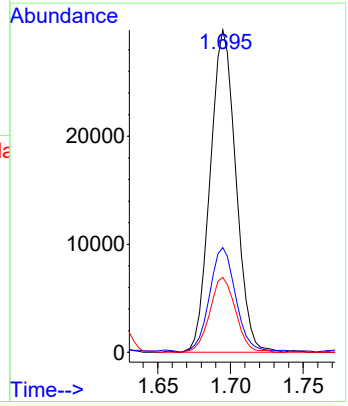


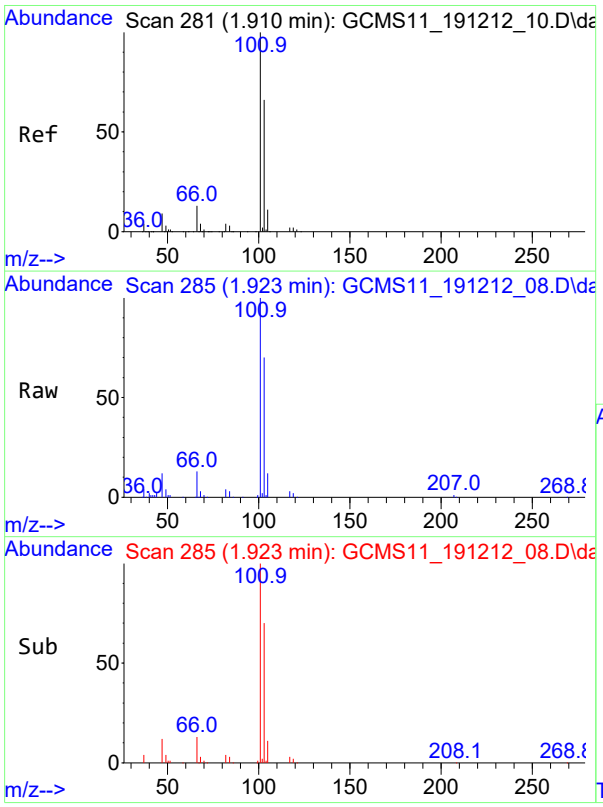


#6
Chloroethane
Concen: 129.93 ng
RT: 1.695 min Scan# 214
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

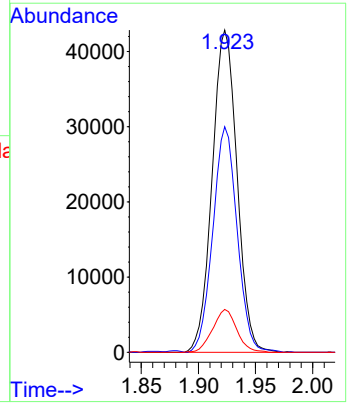


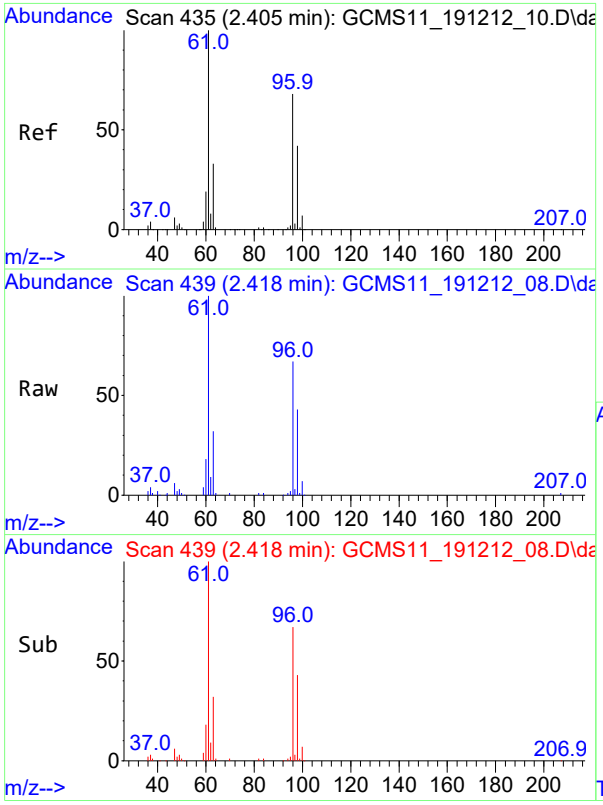


#7
Trichlorofluoromethane
Concen: 130.65 ng
RT: 1.923 min Scan# 285
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

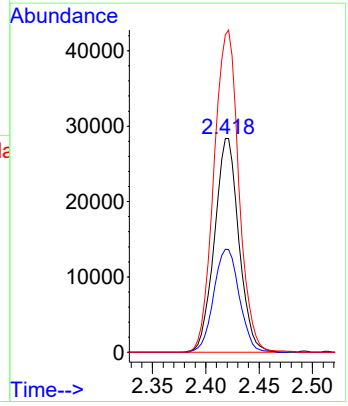


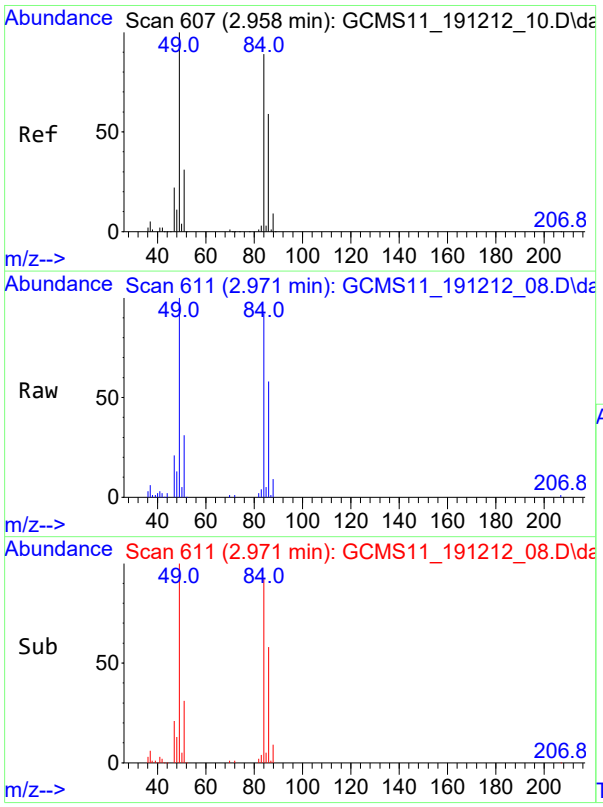


#9
1,1-Dichloroethene
Concen: 121.40 ng
RT: 2.418 min Scan# 439
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

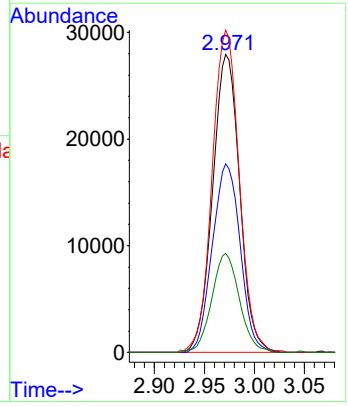


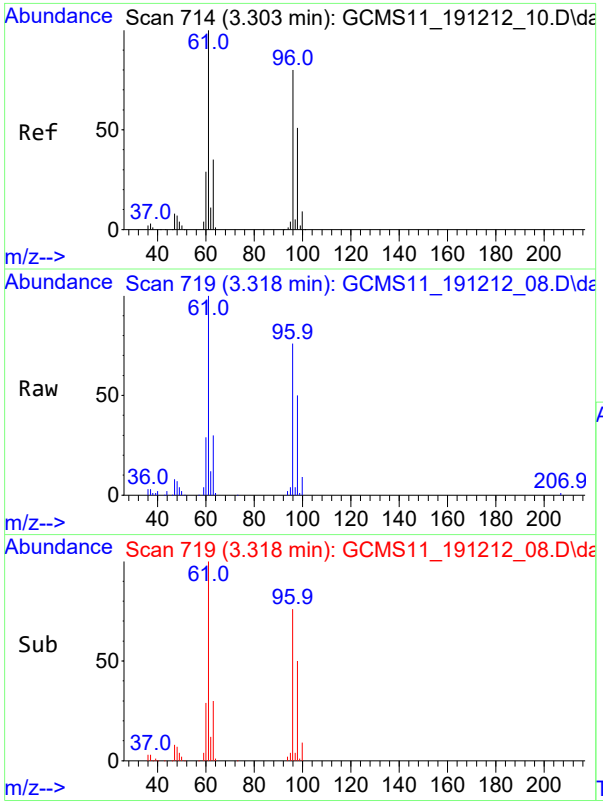


#12
Methylene chloride
Concen: 117.21 ng
RT: 2.971 min Scan# 611
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

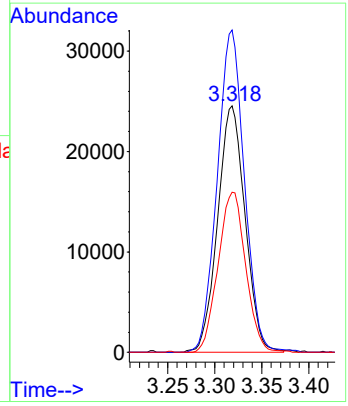


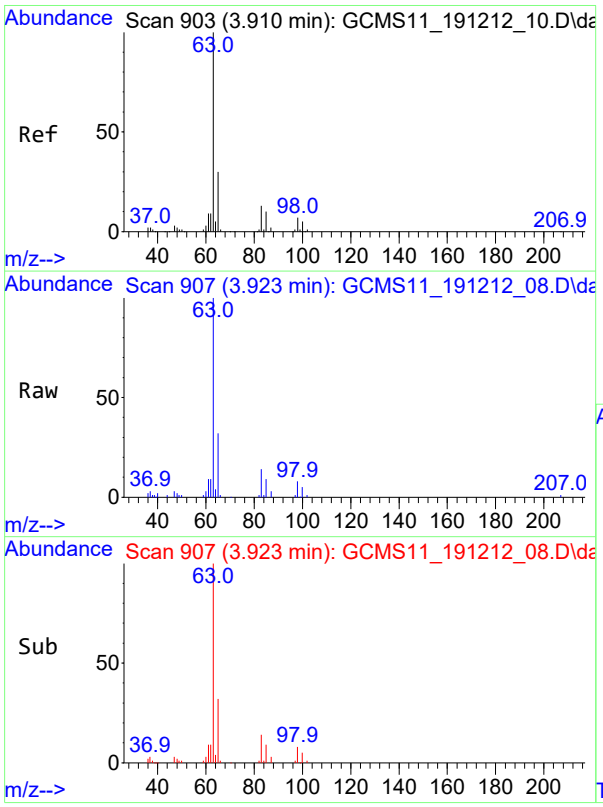


#14
trans-1,2-Dichloroethene
Concen: 118.83 ng
RT: 3.318 min Scan# 719
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

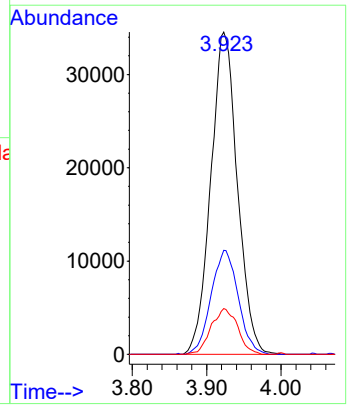


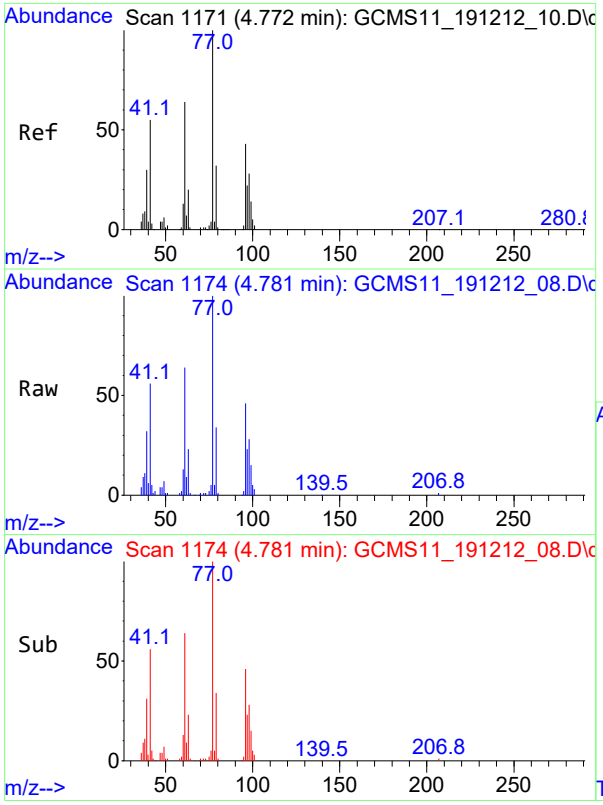


#16
1,1-Dichloroethane
Concen: 124.10 ng
RT: 3.923 min Scan# 907
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

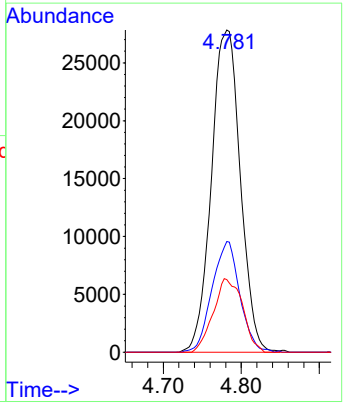


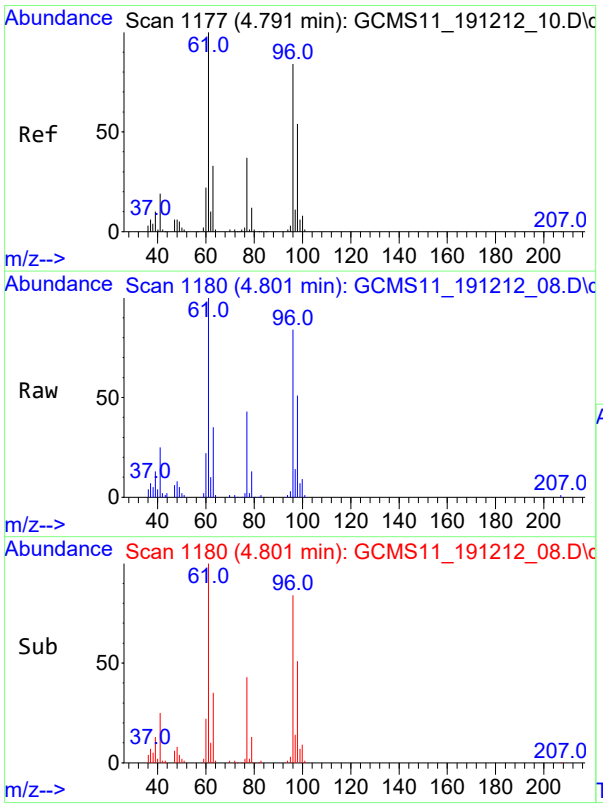


#17
2,2-Dichloropropane
Concen: 125.49 ng
RT: 4.781 min Scan# 1174
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

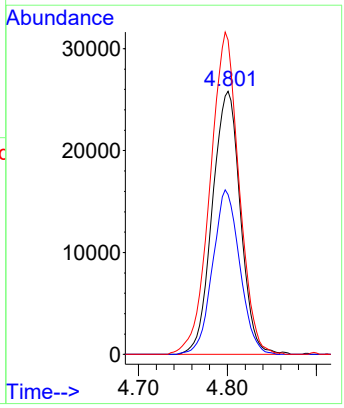


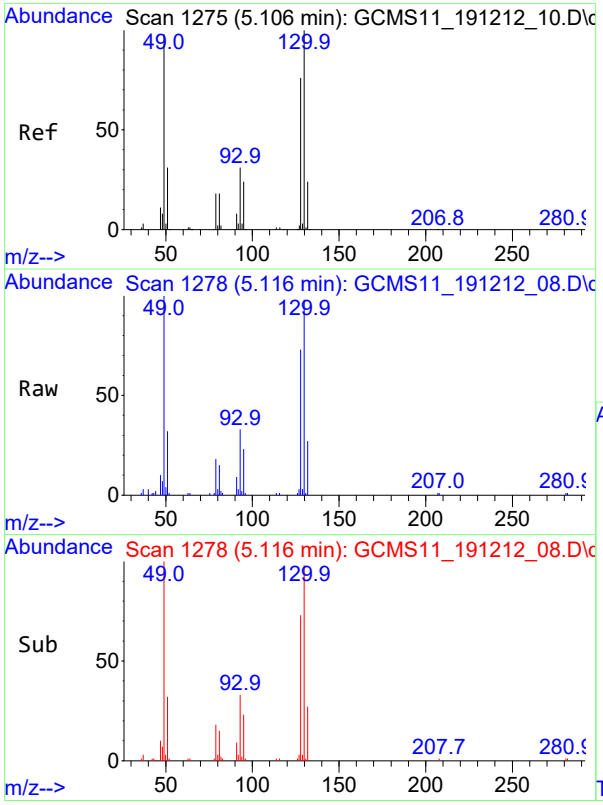


#18
cis-1,2-Dichloroethene
Concen: 124.86 ng
RT: 4.801 min Scan# 1180
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

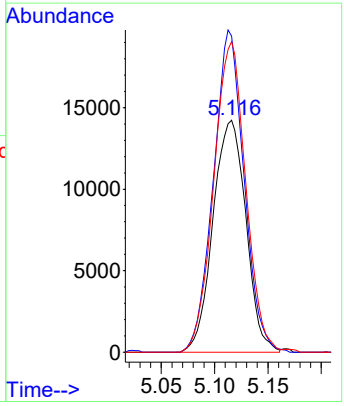


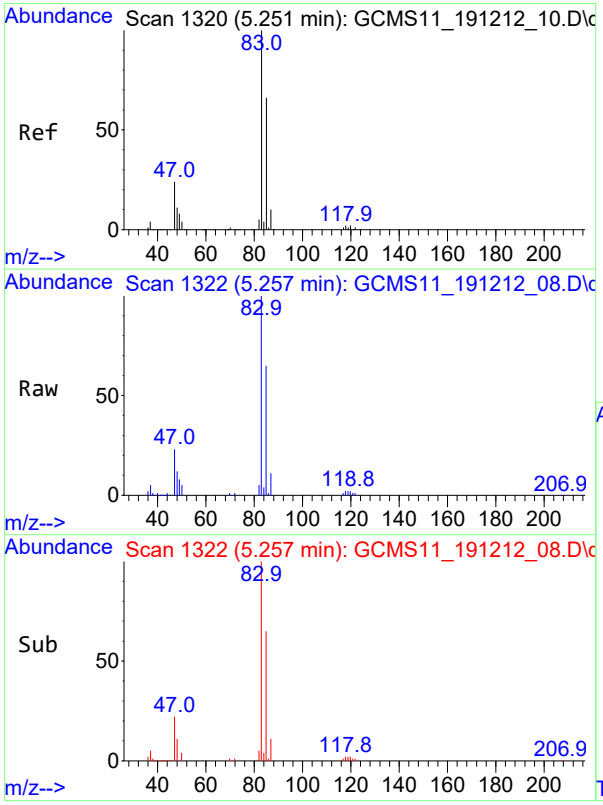


#20
Bromochloromethane
Concen: 124.26 ng
RT: 5.116 min Scan# 1278
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

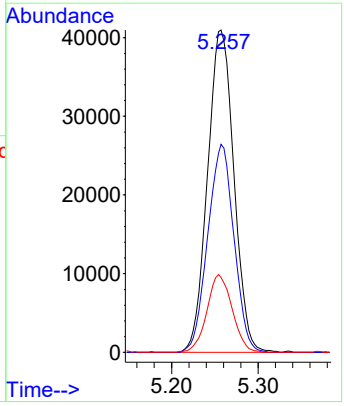


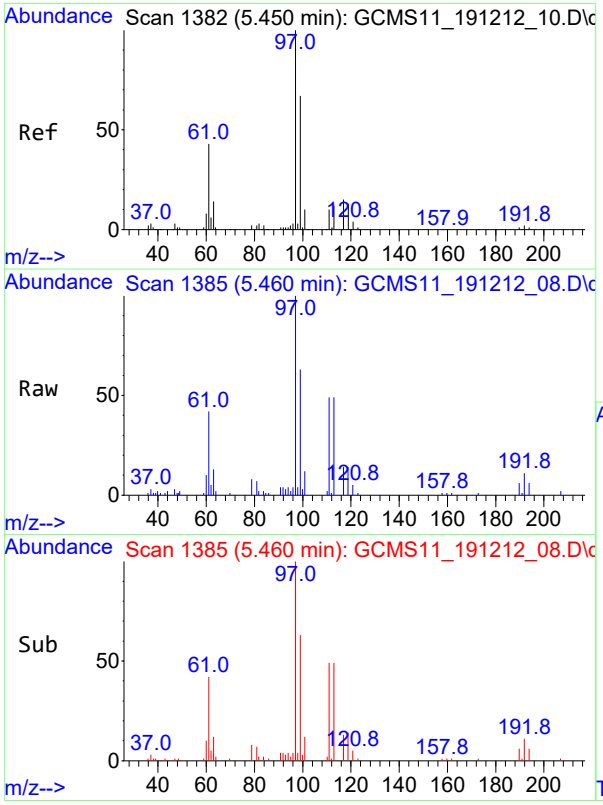


#21
Chloroform
Concen: 125.97 ng
RT: 5.257 min Scan# 1322
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

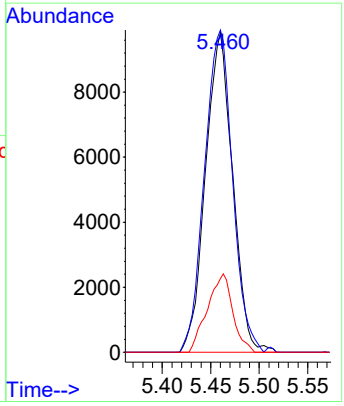


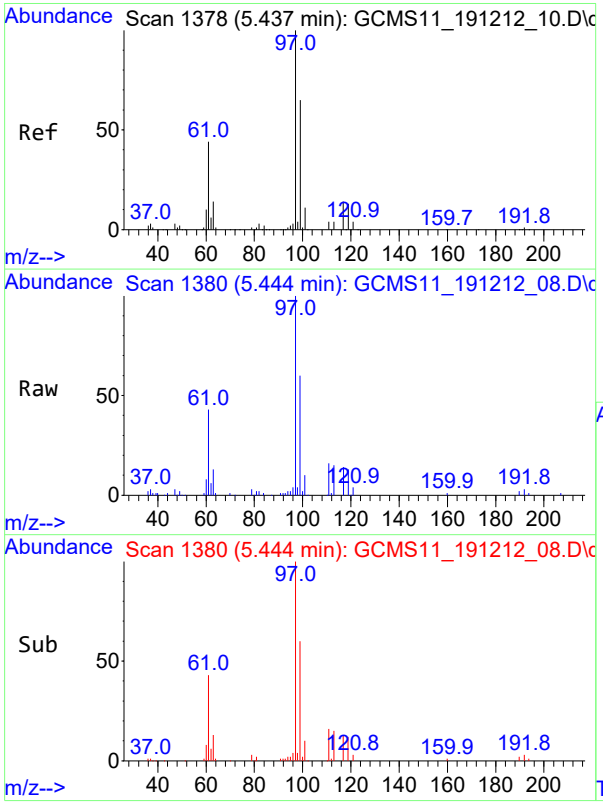


#22
DIBROMOFLUOROMETHANE
Concen: 50.94 ng
RT: 5.460 min Scan# 1385
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

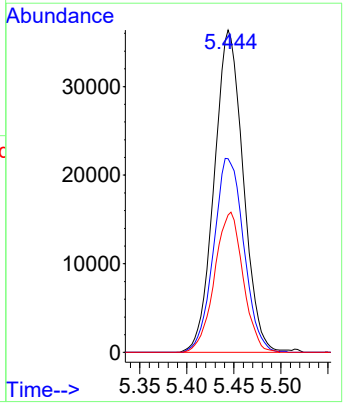


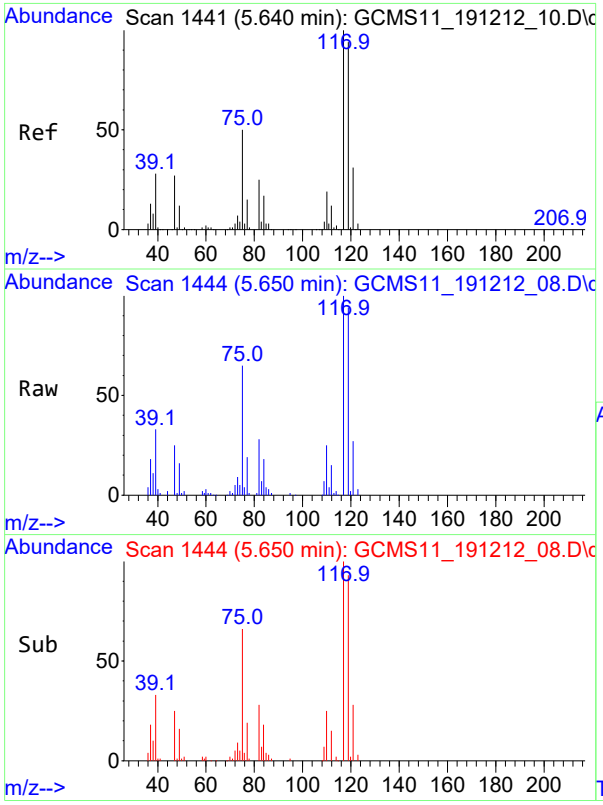


#23
1,1,1-Trichloroethane
Concen: 124.10 ng
RT: 5.444 min Scan# 1380
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

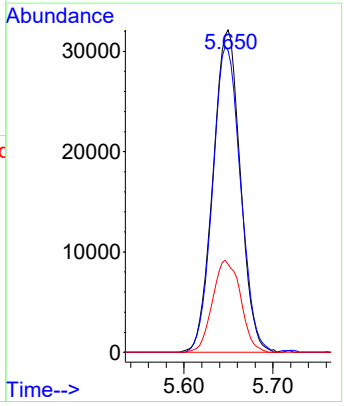


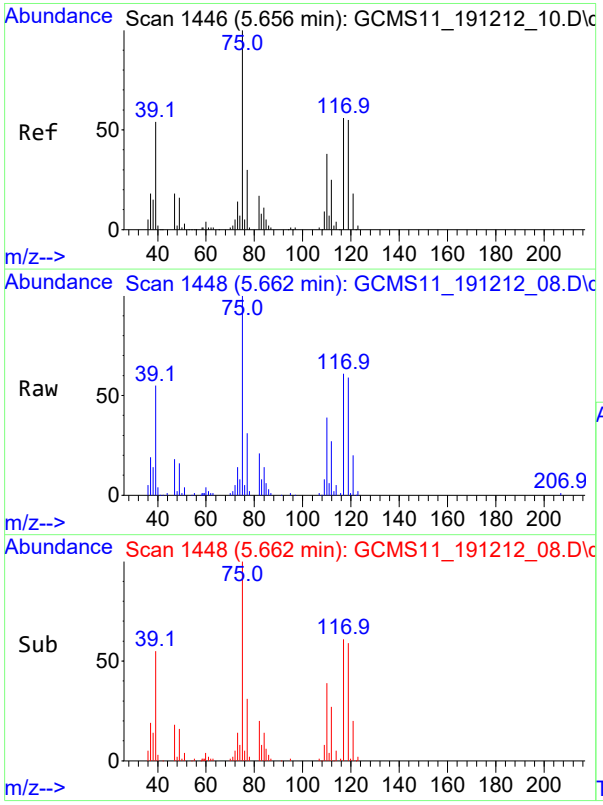


#24
Carbon tetrachloride
Concen: 121.37 ng
RT: 5.650 min Scan# 1444
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

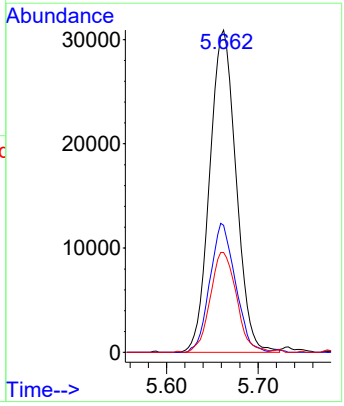


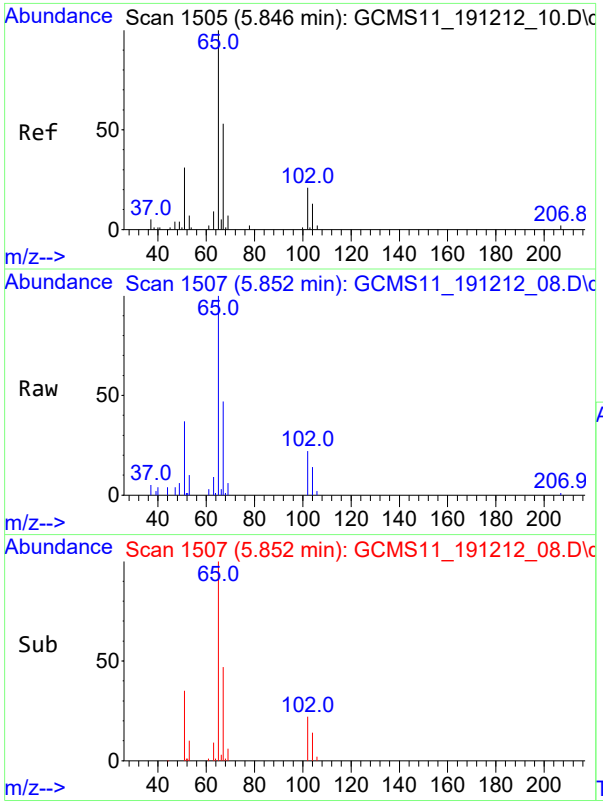


#25
1,1-Dichloropropene
Concen: 121.13 ng
RT: 5.662 min Scan# 1448
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

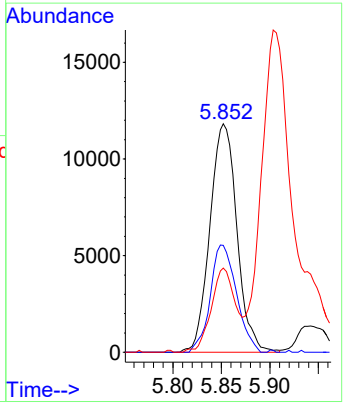


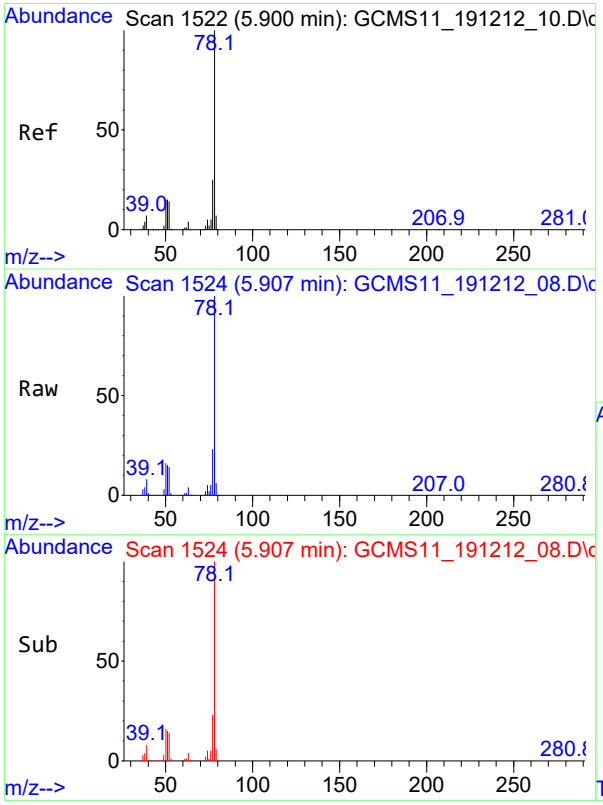


#26
1,2-DICHLOROETHANE-D4
Concen: 51.14 ng
RT: 5.852 min Scan# 1507
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

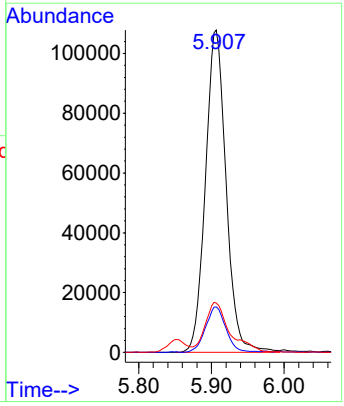


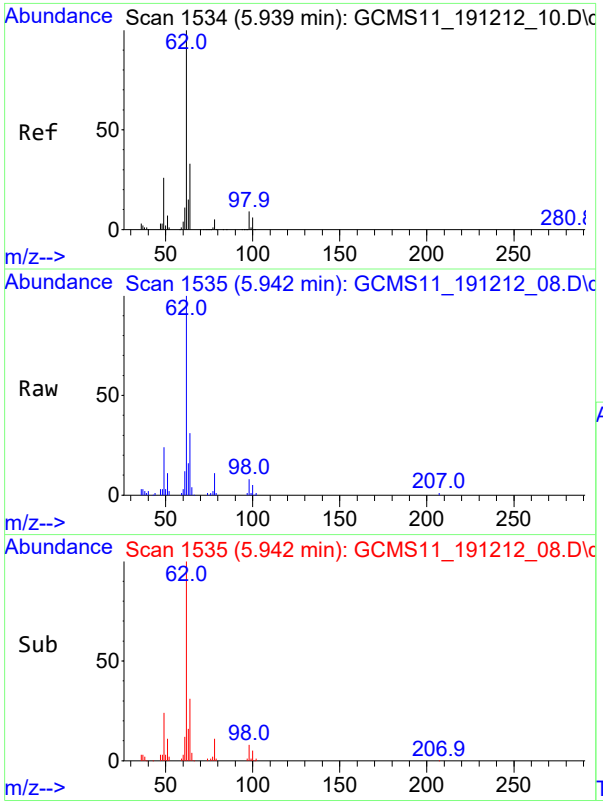


#27
Benzene
Concen: 122.61 ng
RT: 5.907 min Scan# 1524
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

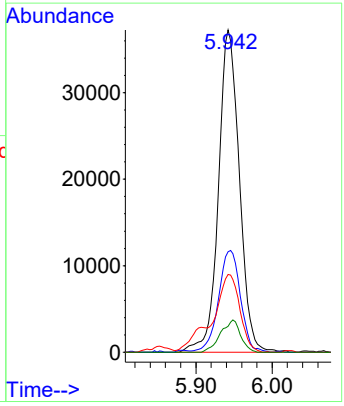


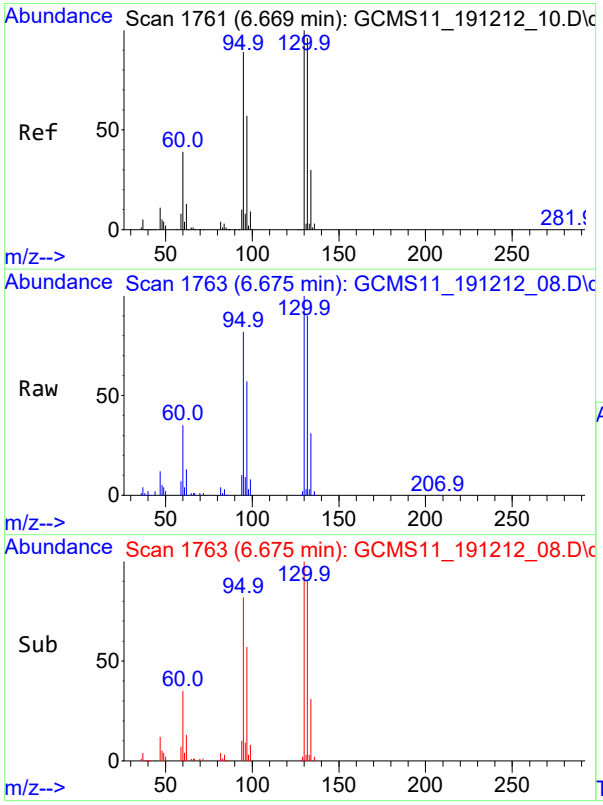


#28
1,2-Dichloroethane
Concen: 121.65 ng
RT: 5.942 min Scan# 1535
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

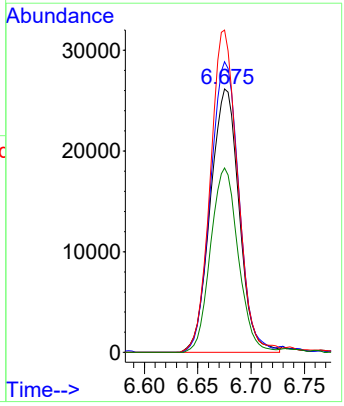


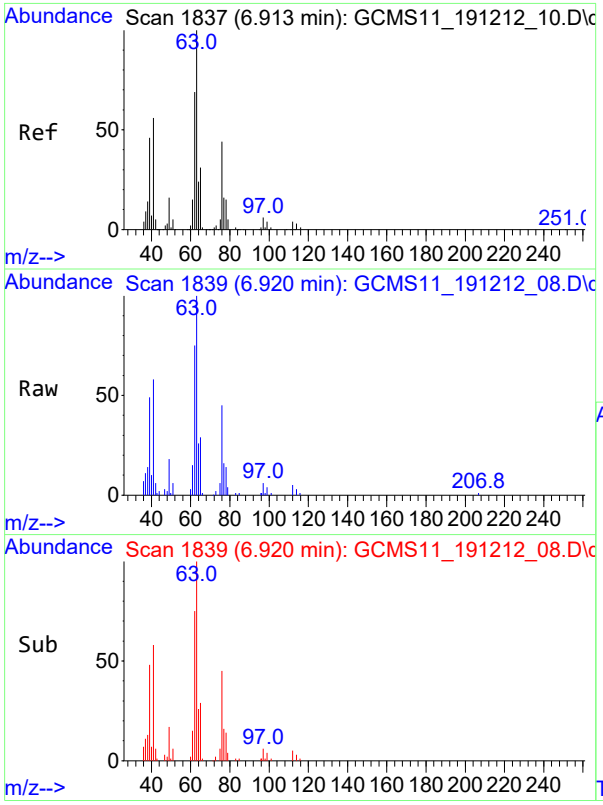


#29
Trichloroethene
Concen: 119.90 ng
RT: 6.675 min Scan# 1763
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

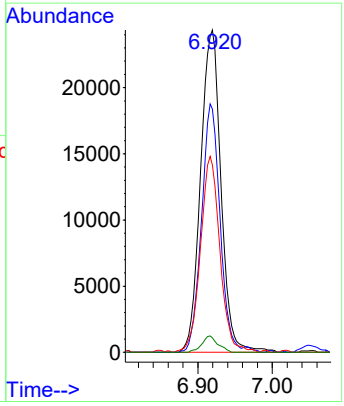


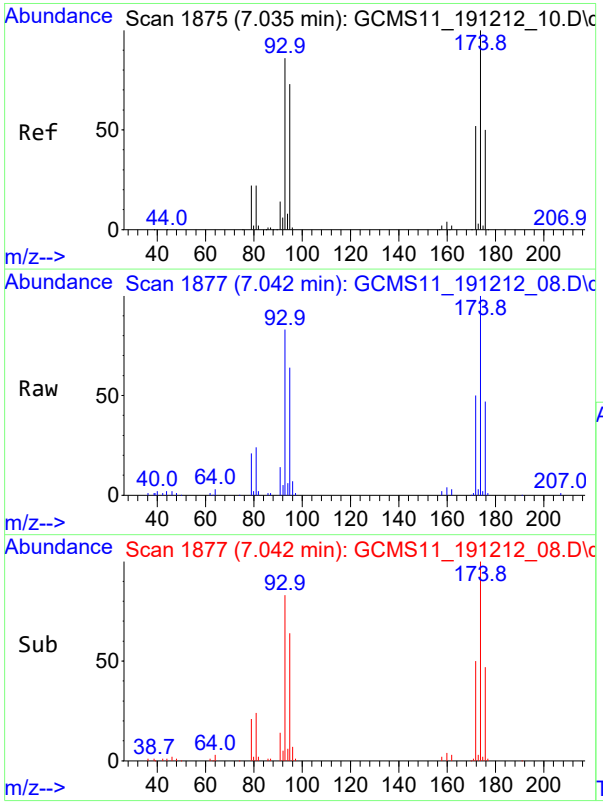


#30
1,2-Dichloropropane
Concen: 120.71 ng
RT: 6.920 min Scan# 1839
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

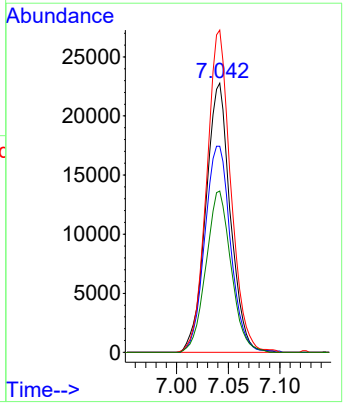


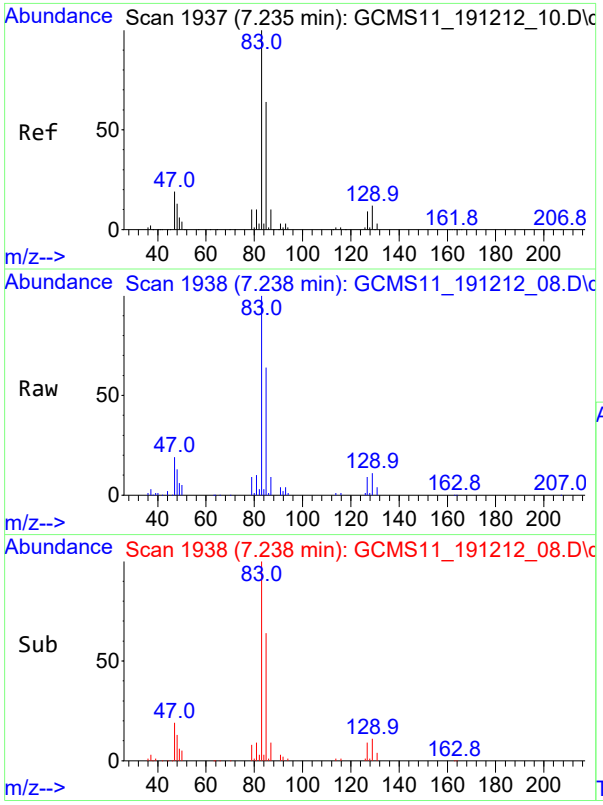


#31
Dibromomethane
Concen: 120.36 ng
RT: 7.042 min Scan# 1877
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

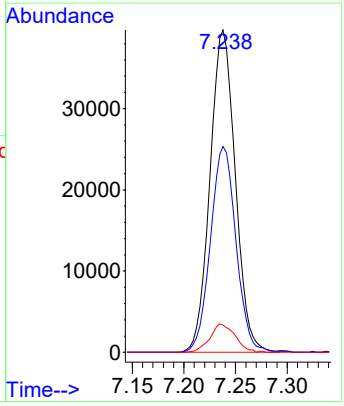


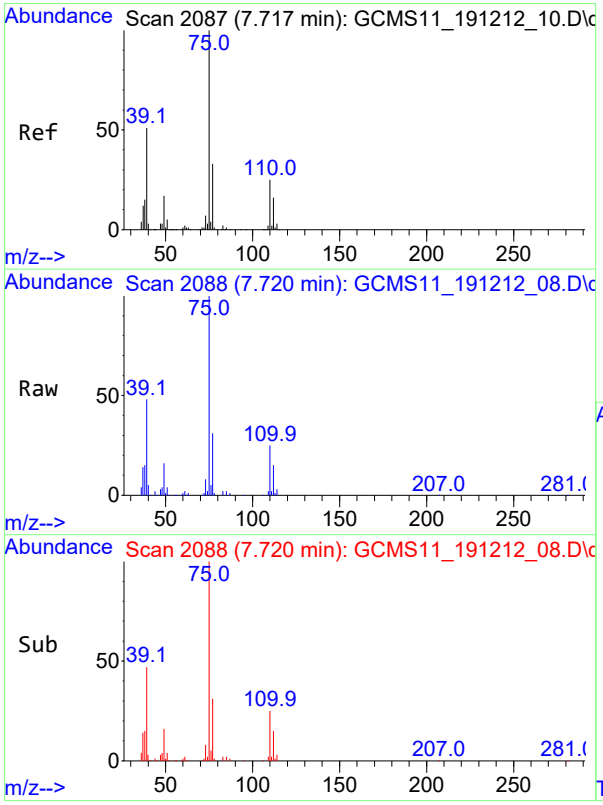


#33
Bromodichloromethane
Concen: 124.28 ng
RT: 7.238 min Scan# 1938
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

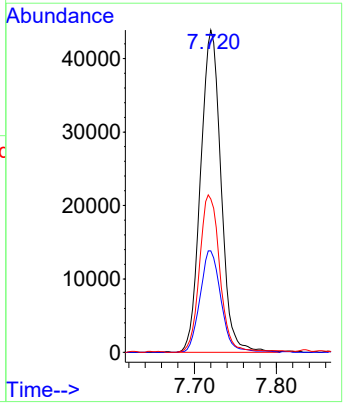


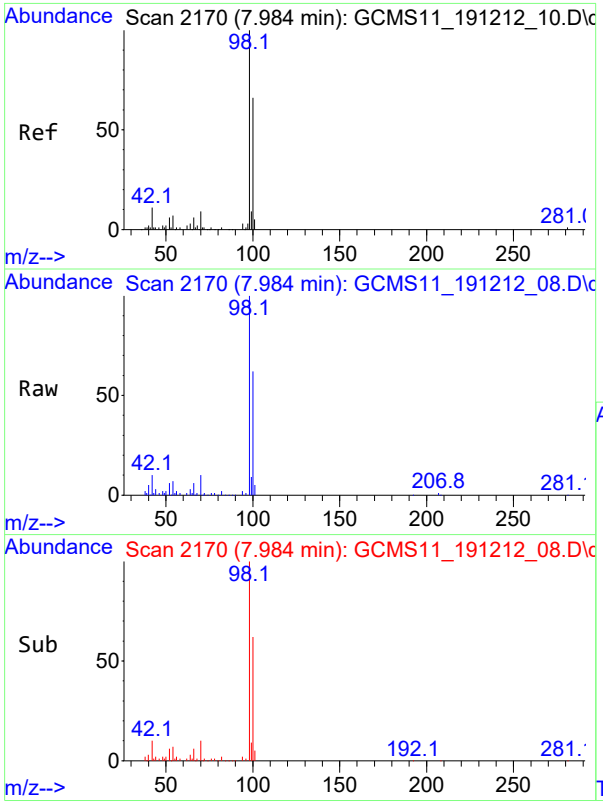


#35
cis-1,3-Dichloropropene
Concen: 125.94 ng
RT: 7.720 min Scan# 2088
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

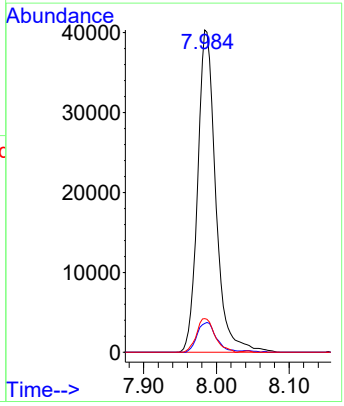


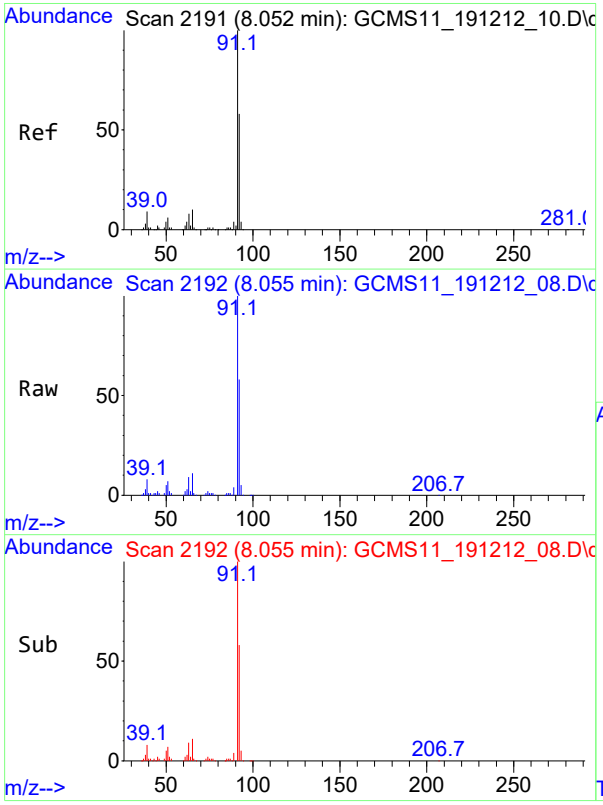


#37
TOLUENE-D8
Concen: 49.48 ng
RT: 7.984 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

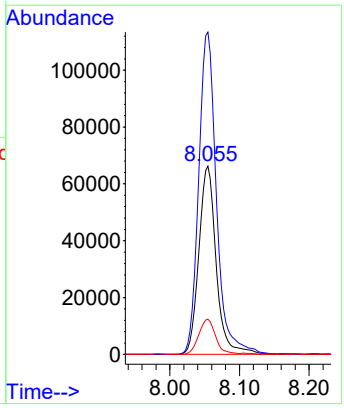


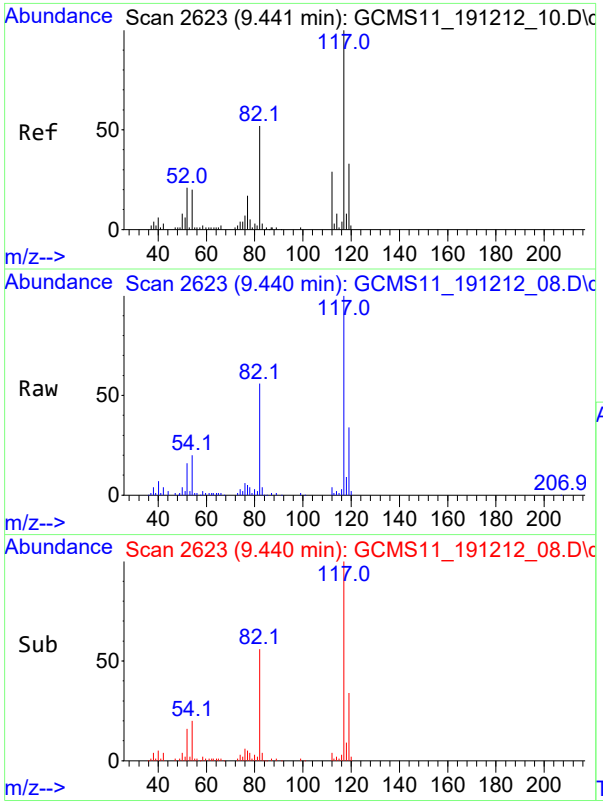


#38
Toluene
Concen: 118.38 ng
RT: 8.055 min Scan# 2192
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

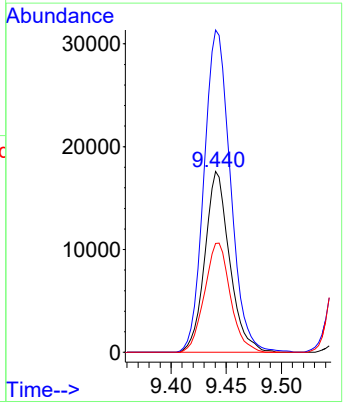


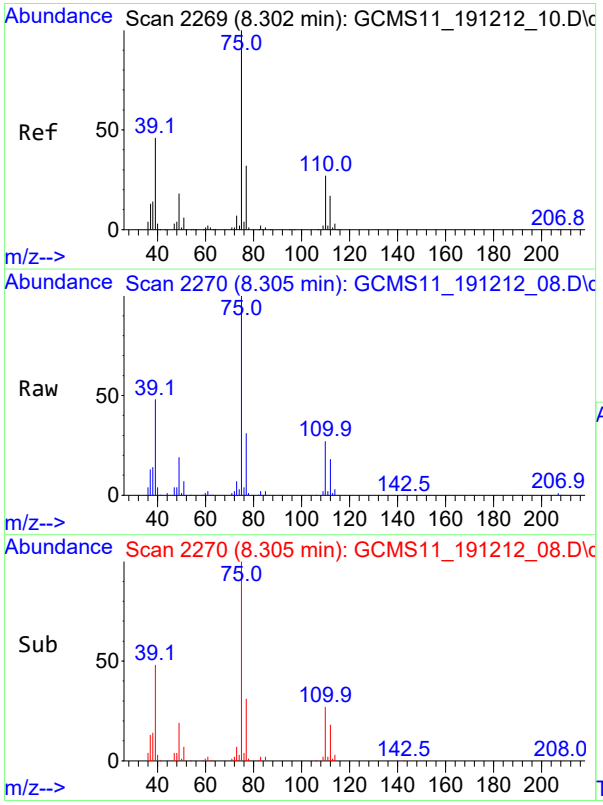


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.440 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

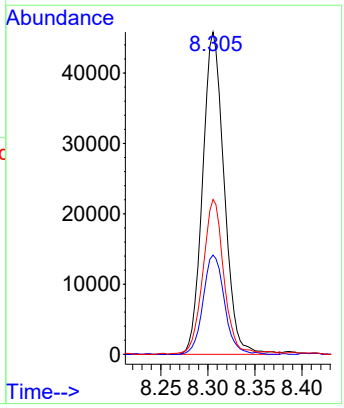


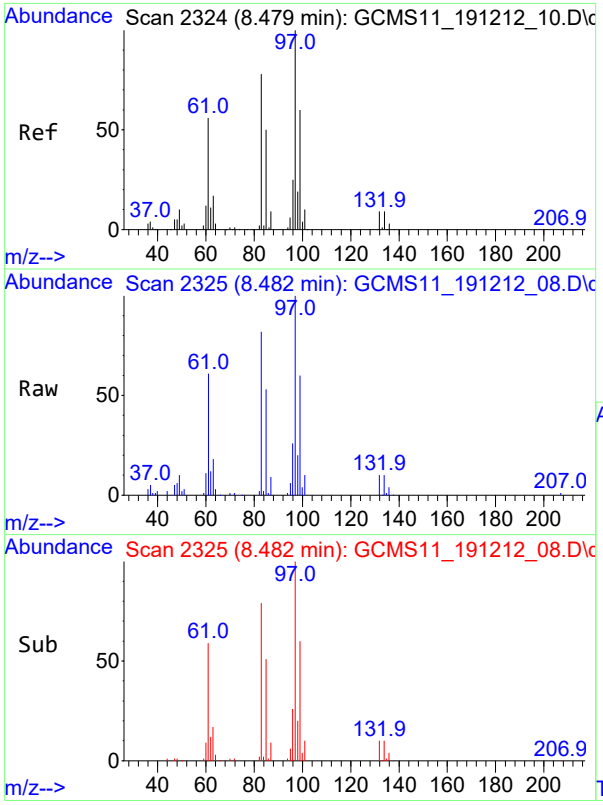


#40
trans-1,3-Dichloropropene
Concen: 121.48 ng
RT: 8.305 min Scan# 2270
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

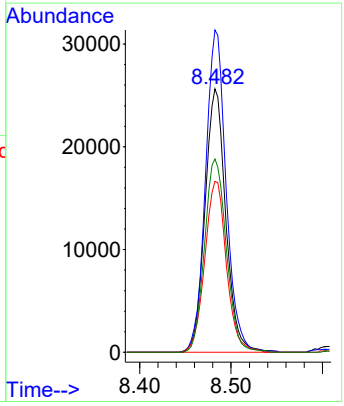


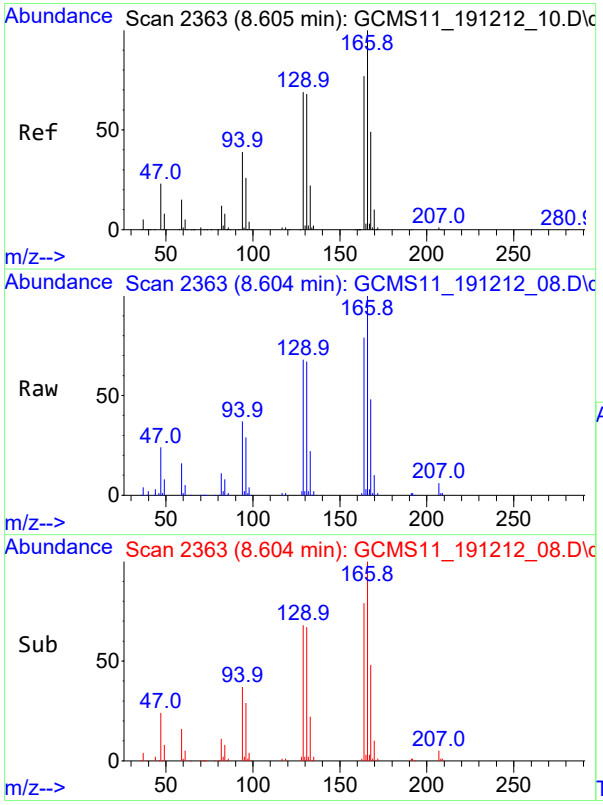


#41
1,1,2-Trichloroethane
Concen: 118.00 ng
RT: 8.482 min Scan# 2325
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

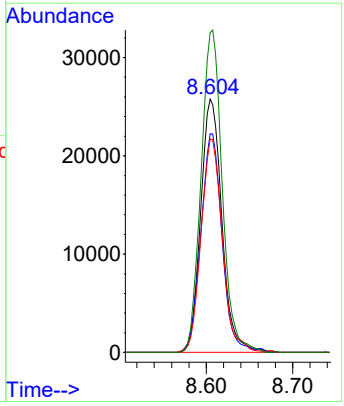


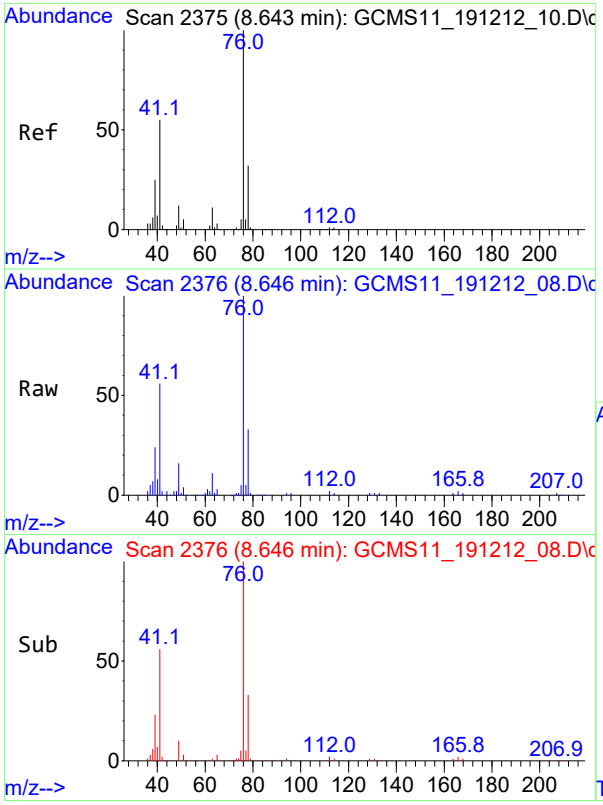


#42
Tetrachloroethene
Concen: 126.67 ng
RT: 8.604 min Scan# 2363
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

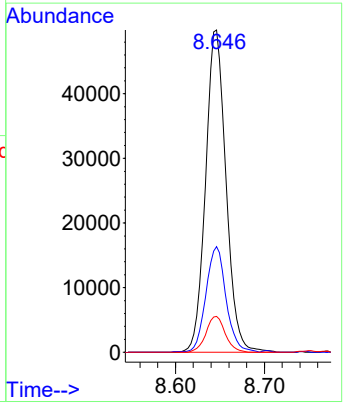


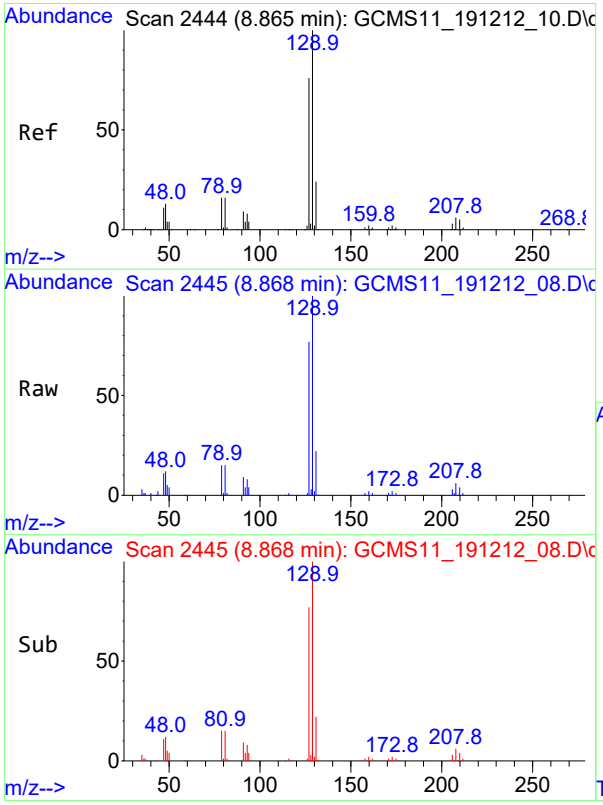


#43
1,3-Dichloropropane
Concen: 119.46 ng
RT: 8.646 min Scan# 2376
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

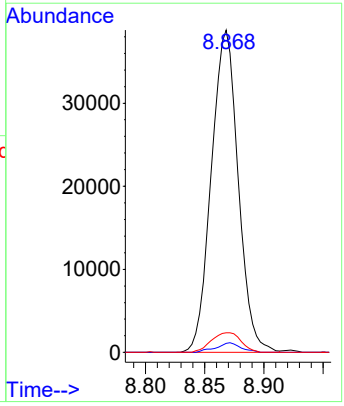


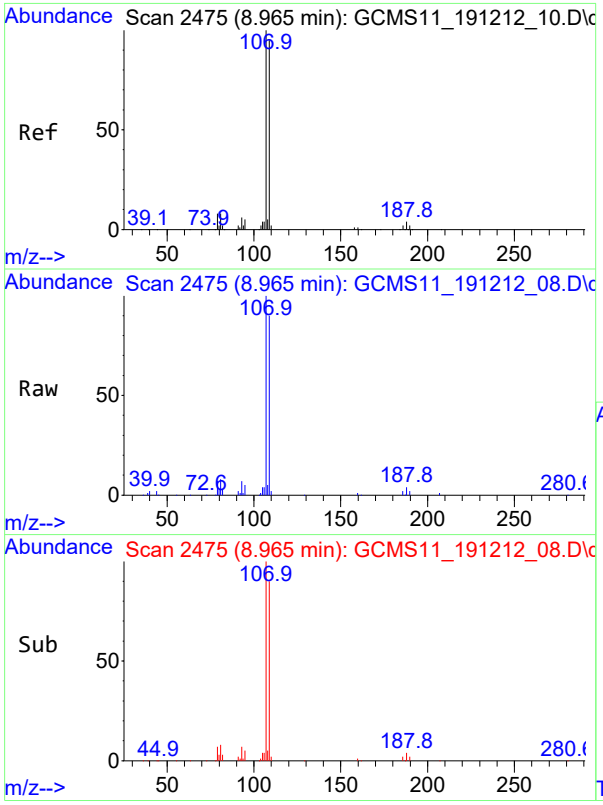


#45
Dibromochloromethane
Concen: 119.49 ng
RT: 8.868 min Scan# 2445
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

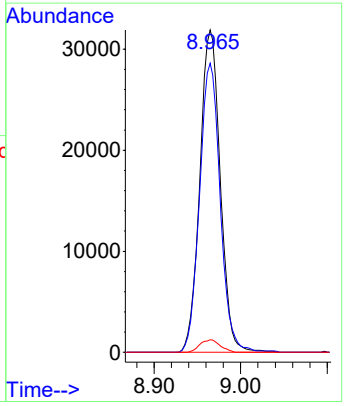


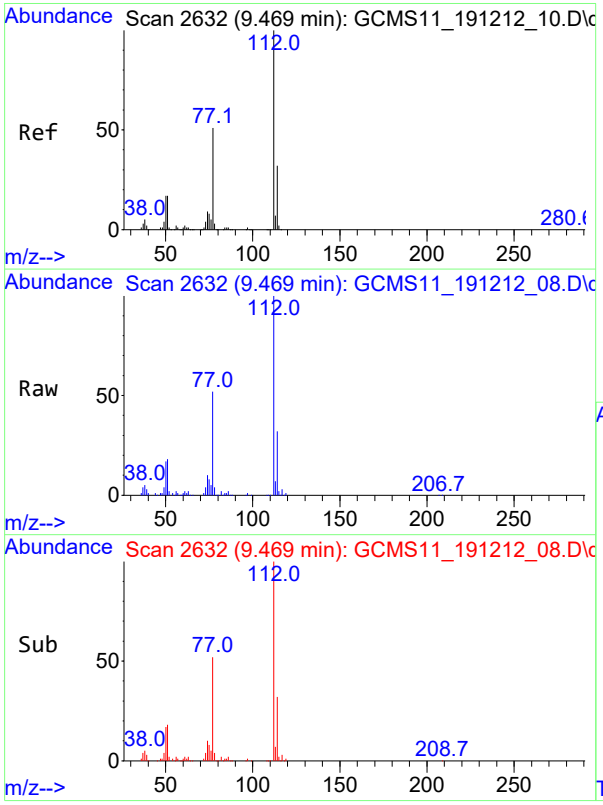


#46
1,2-Dibromoethane (EDB)
Concen: 119.98 ng
RT: 8.965 min Scan# 2475
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

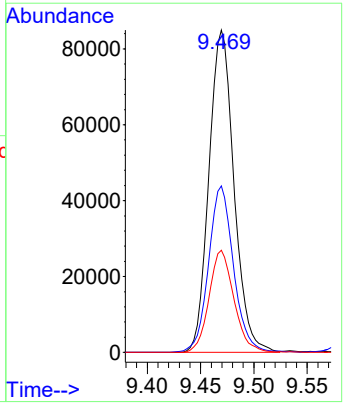


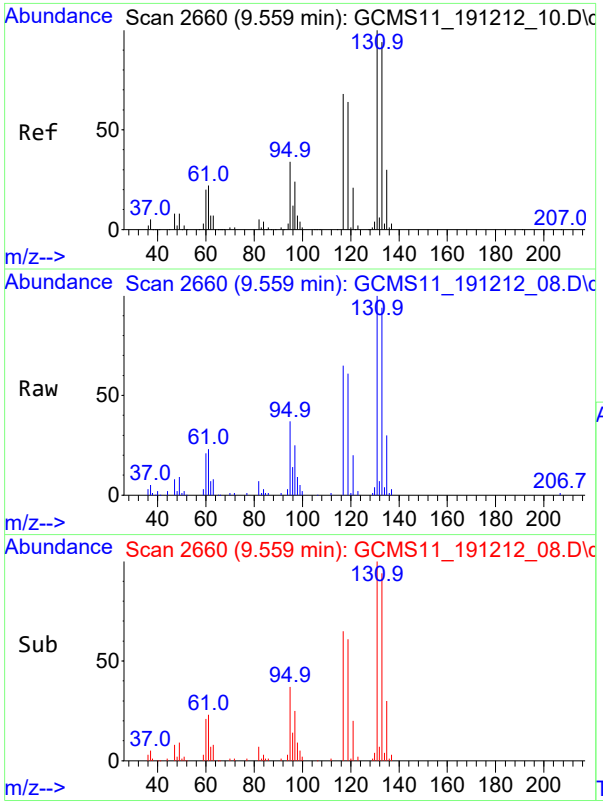


#47
Chlorobenzene
Concen: 117.60 ng
RT: 9.469 min Scan# 2632
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

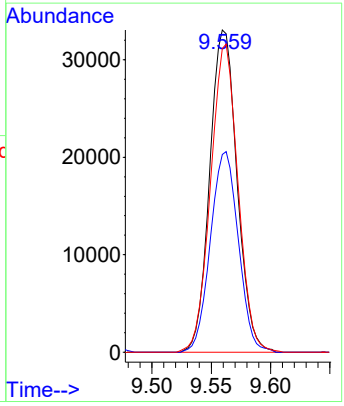


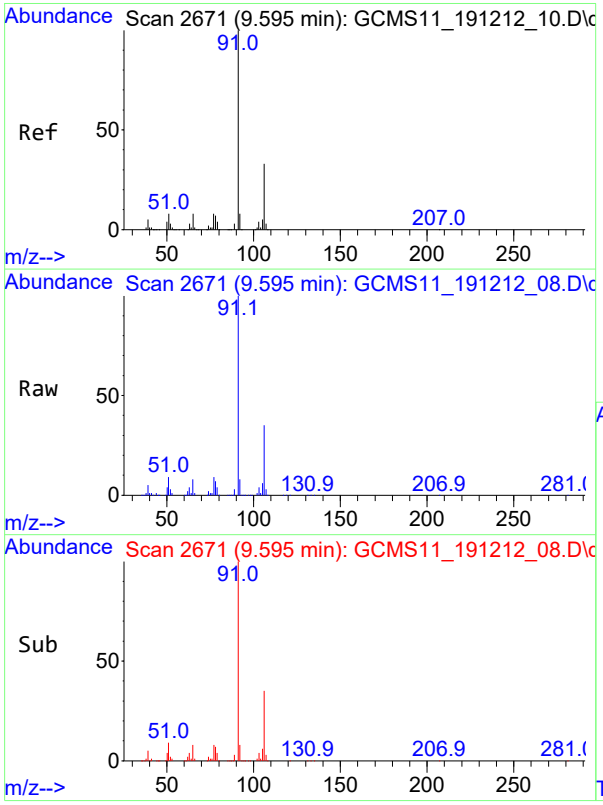


#48
1,1,1,2-Tetrachloroethane
Concen: 116.44 ng
RT: 9.559 min Scan# 2660
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

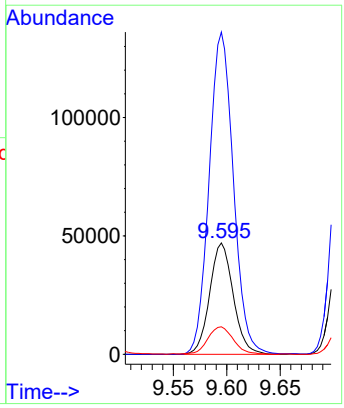


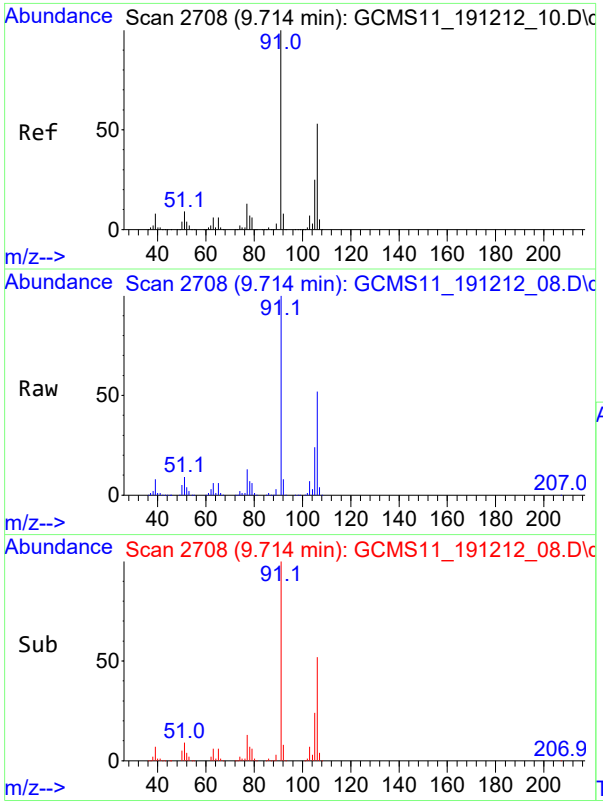


#49
Ethylbenzene
Concen: 119.17 ng
RT: 9.595 min Scan# 2671
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

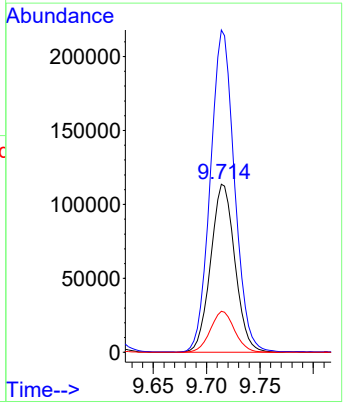


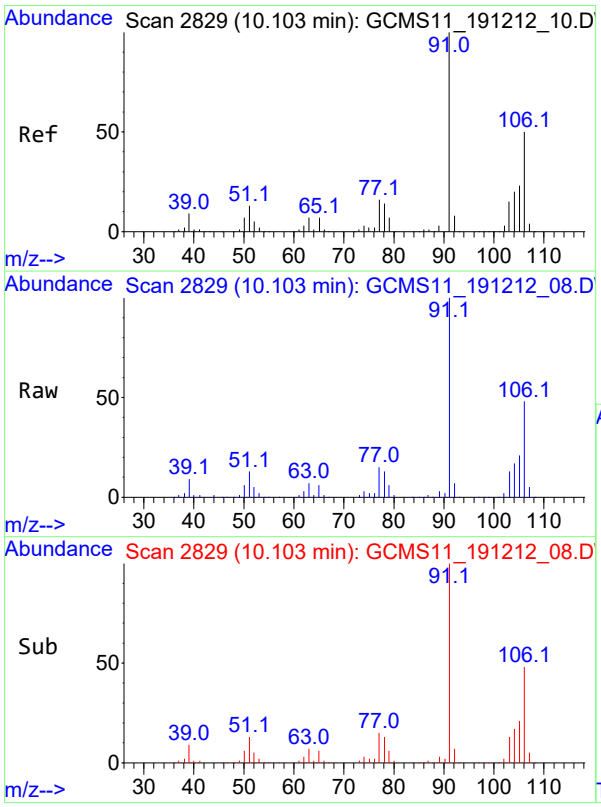


#50
m+p-Xylene
Concen: 233.64 ng
RT: 9.714 min Scan# 2708
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

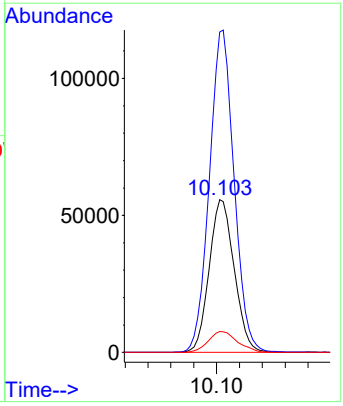


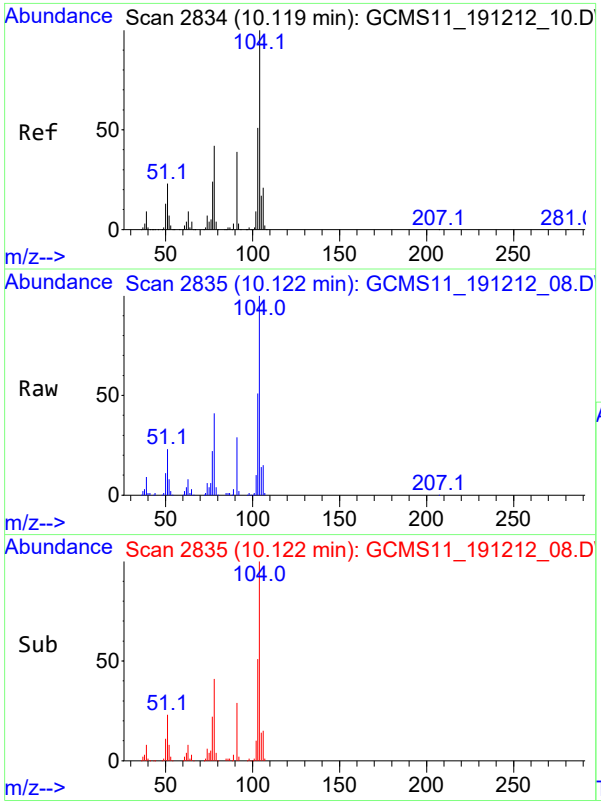


#51
o-Xylene
Concen: 114.47 ng
RT: 10.103 min Scan# 2829
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

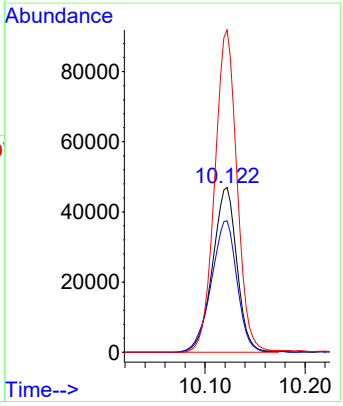


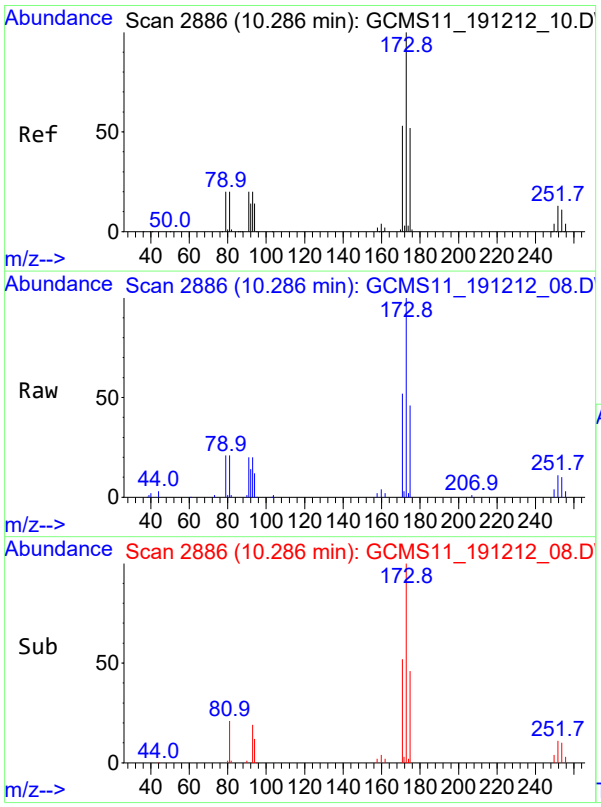


#52
Styrene
Concen: 113.55 ng
RT: 10.122 min Scan# 2835
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

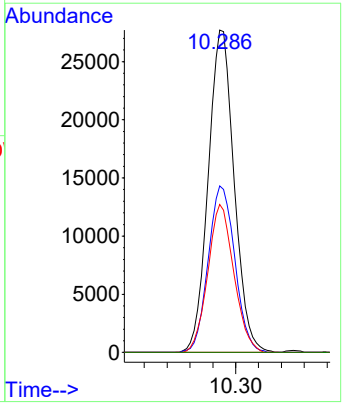


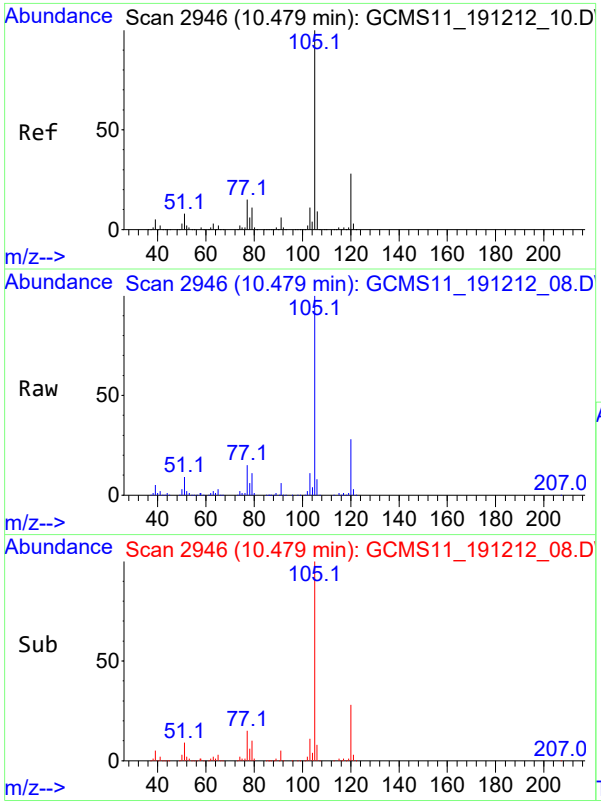


#53
Bromoform
Concen: 117.99 ng
RT: 10.286 min Scan# 2886
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

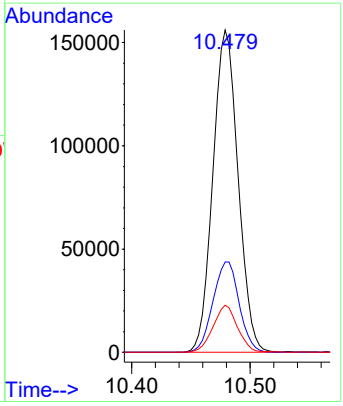


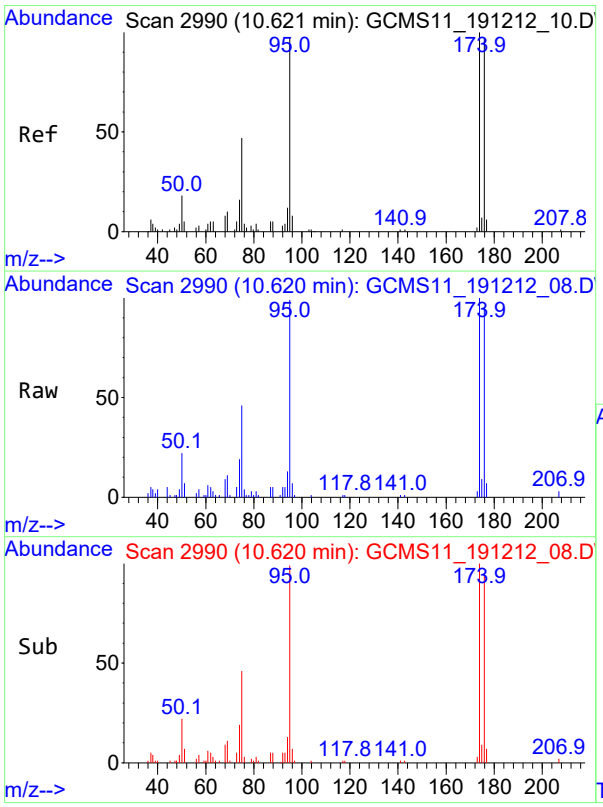


#54
Isopropylbenzene
Concen: 116.89 ng
RT: 10.479 min Scan# 2946
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

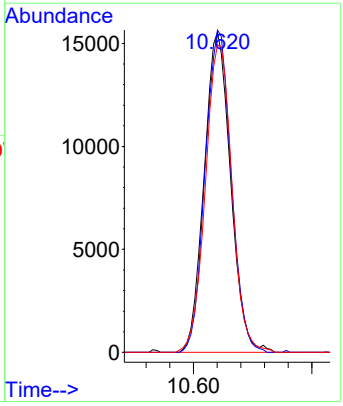


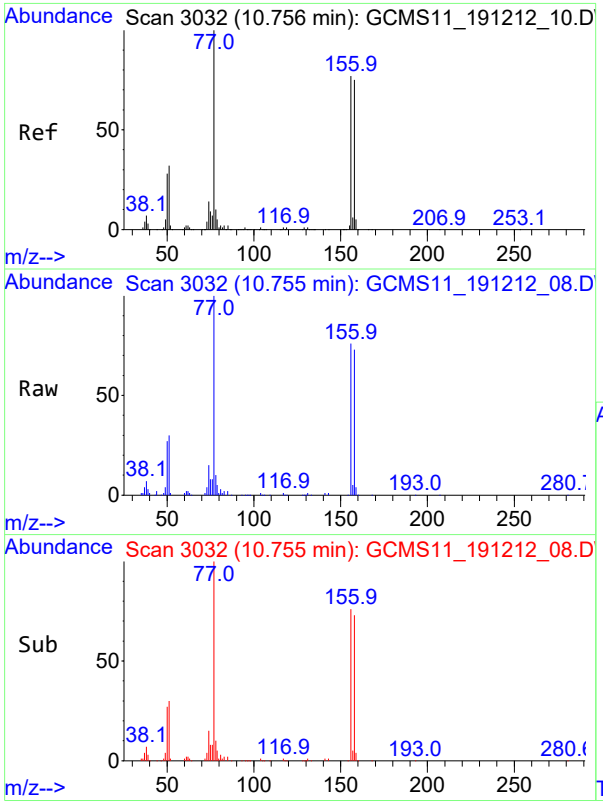


#55
4-BROMOFLUOROBENZENE
Concen: 48.33 ng
RT: 10.620 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

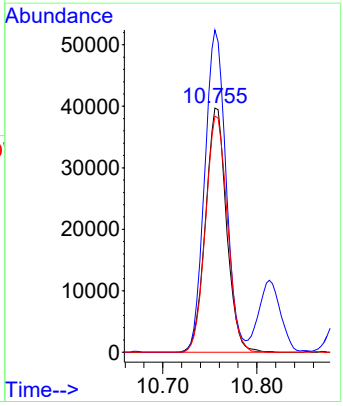


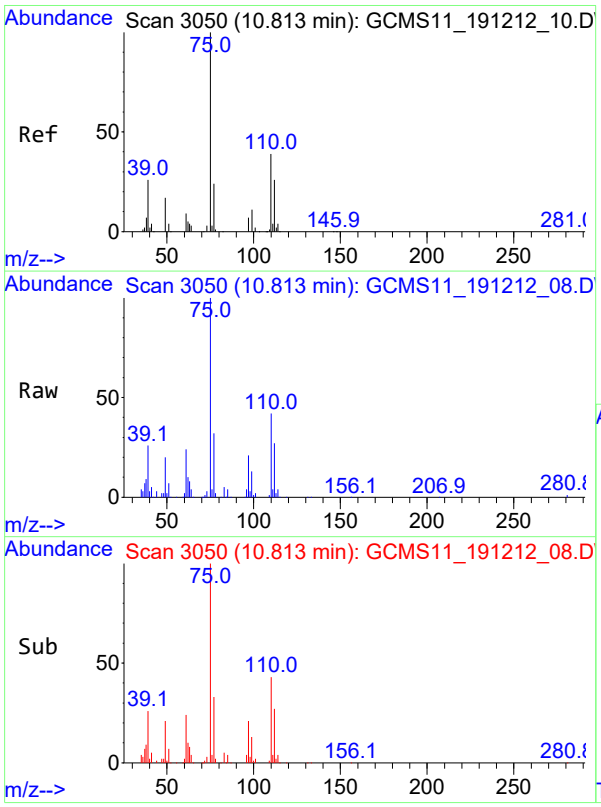


#56
Bromobenzene
Concen: 119.92 ng
RT: 10.755 min Scan# 3032
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

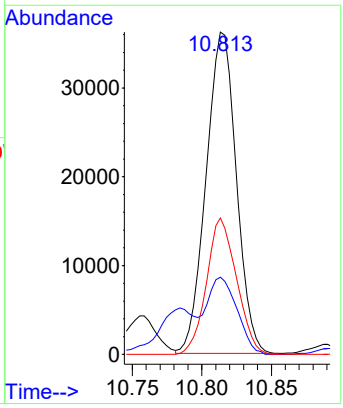


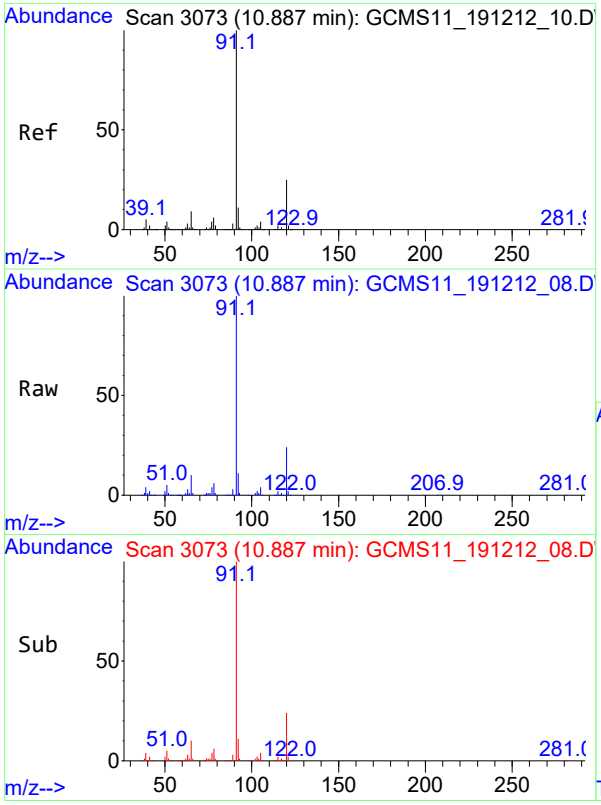


#57
1,2,3-Trichloropropane
Concen: 121.24 ng
RT: 10.813 min Scan# 3050
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

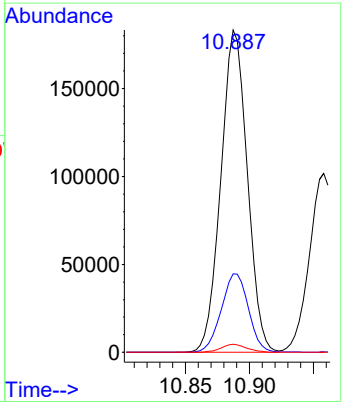


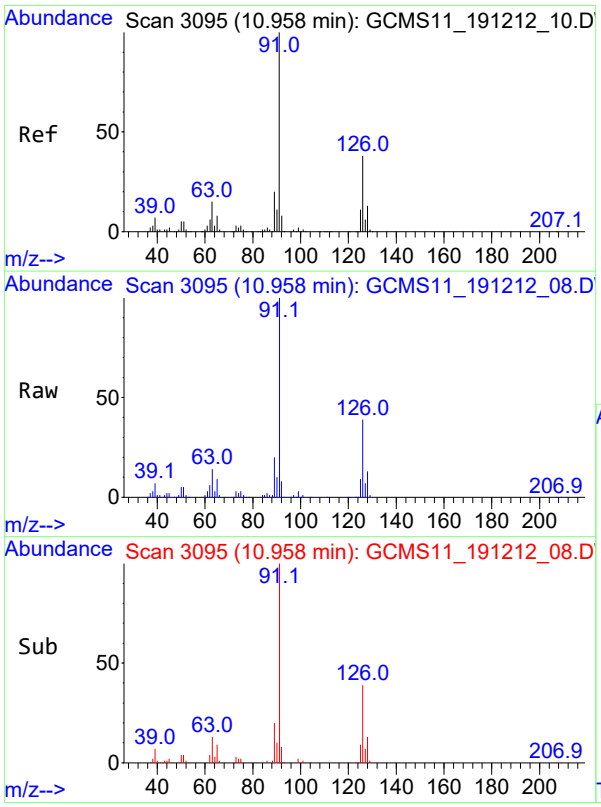


#58
n-Propylbenzene
Concen: 119.26 ng
RT: 10.887 min Scan# 3073
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

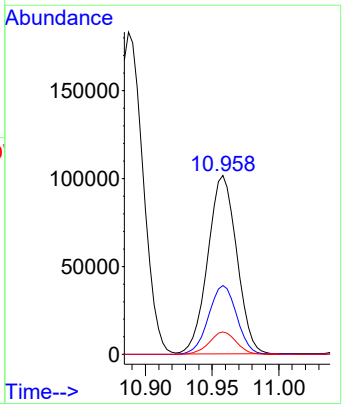


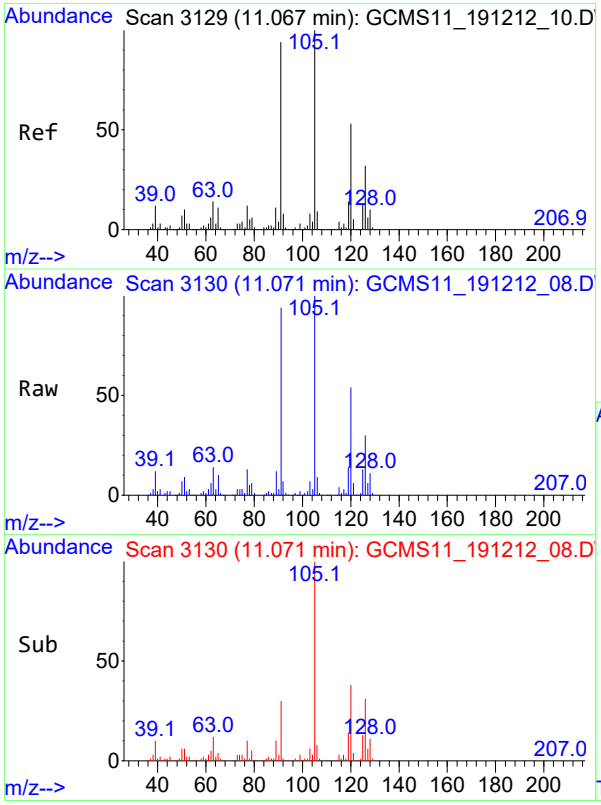


#59
2-Chlorotoluene
Concen: 118.80 ng
RT: 10.958 min Scan# 3095
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

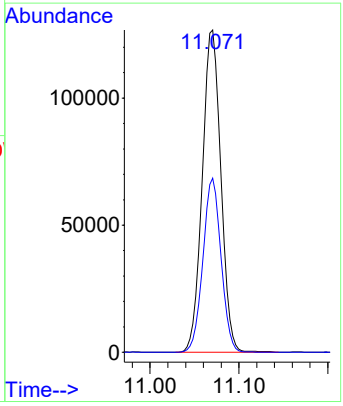


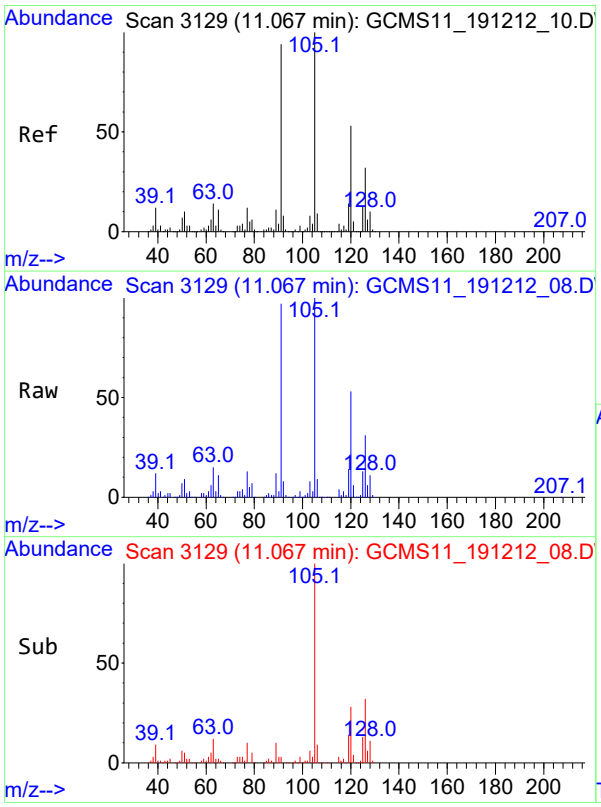


#60
1,3,5-Trimethylbenzene
Concen: 115.82 ng
RT: 11.071 min Scan# 3130
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

Tgt Ion:105 Resp: 185221

Ion	Ratio	Lower	Upper
105	100		
120	52.5	22.4	82.4

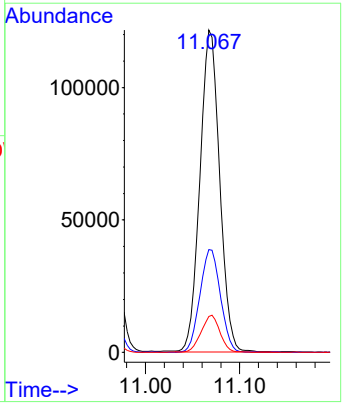


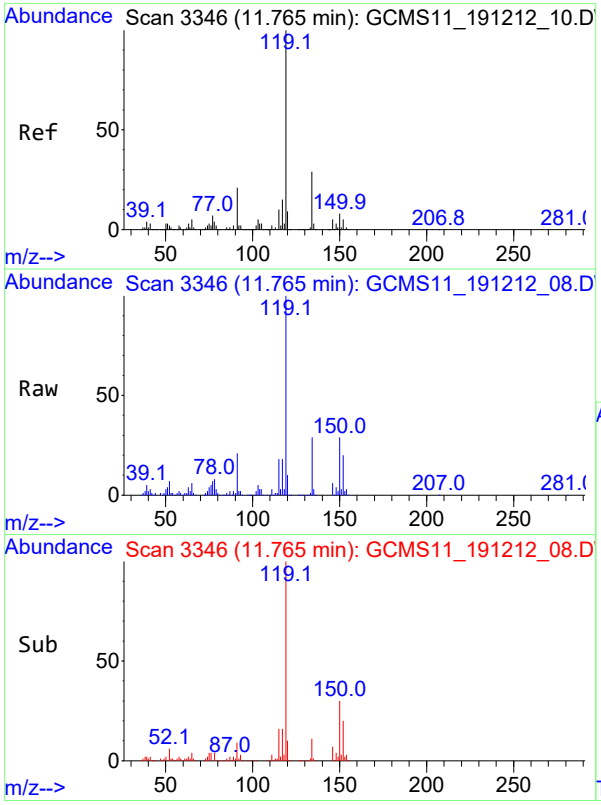


#61
4-Chlorotoluene
Concen: 117.10 ng
RT: 11.067 min Scan# 3129
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

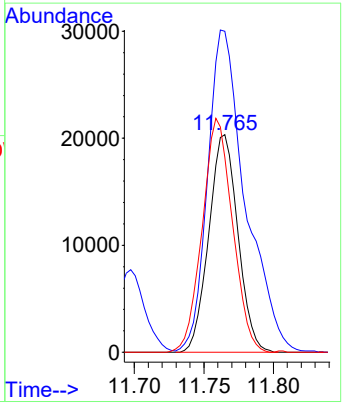


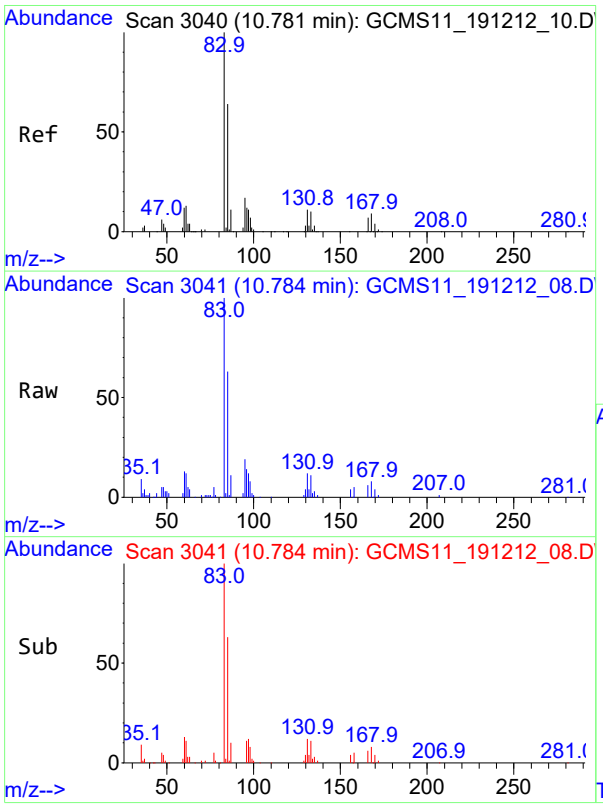


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.765 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

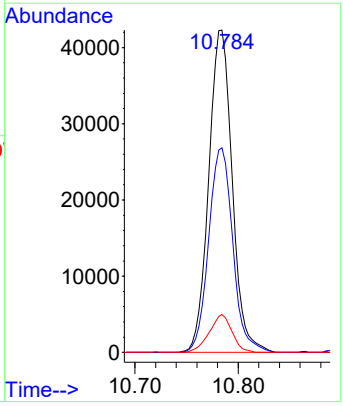


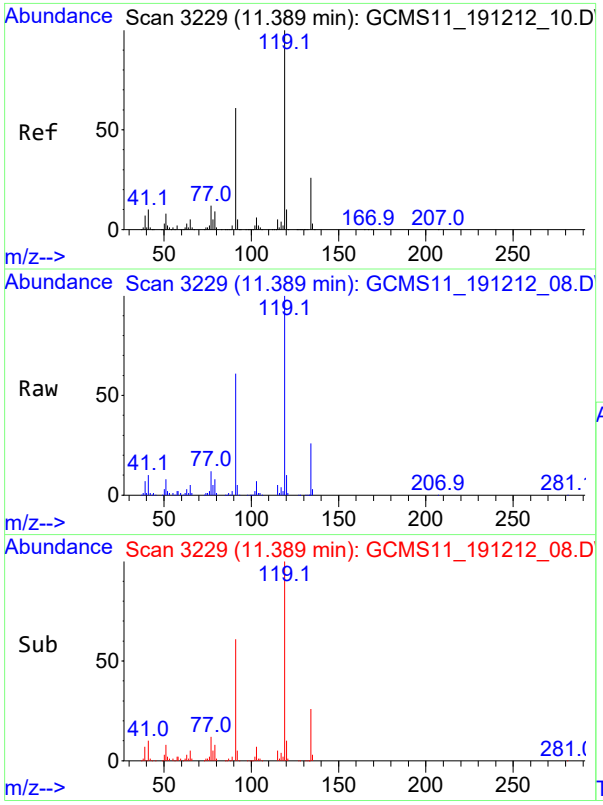


#63
1,1,2,2-Tetrachloroethane
Concen: 126.17 ng
RT: 10.784 min Scan# 3041
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

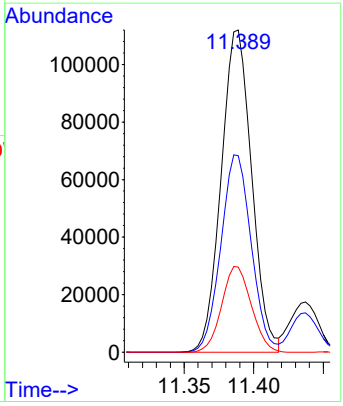


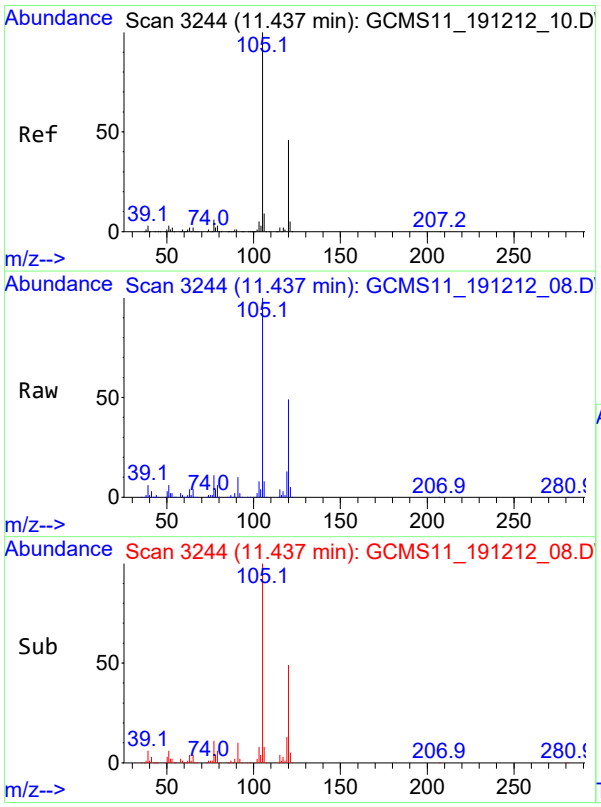


#64
tert-Butylbenzene
Concen: 130.89 ng
RT: 11.389 min Scan# 3229
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

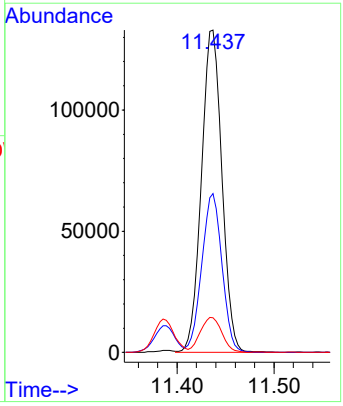


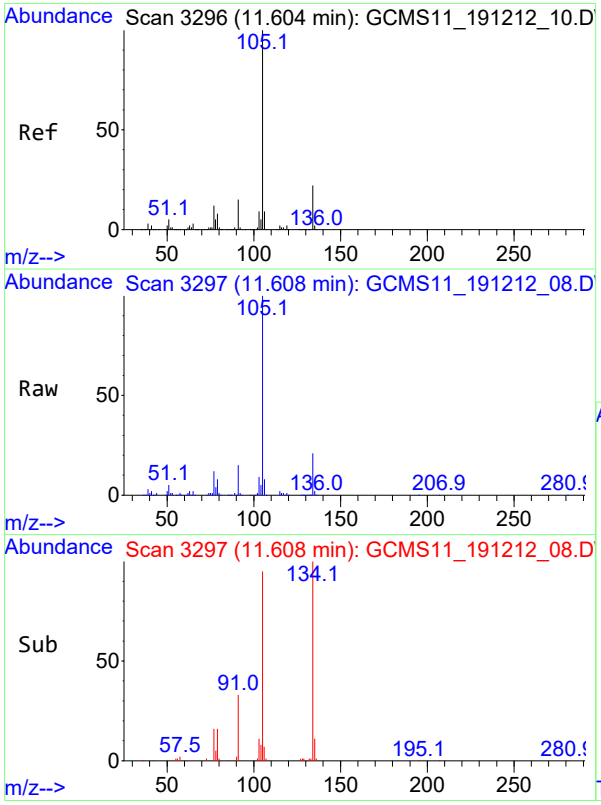


#65
1,2,4-Trimethylbenzene
Concen: 122.44 ng
RT: 11.437 min Scan# 3244
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

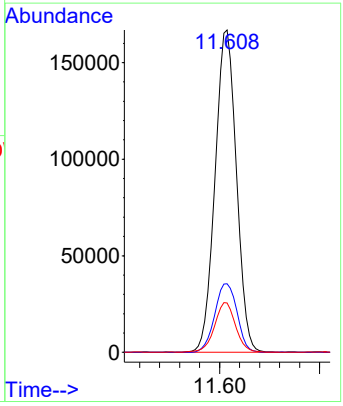


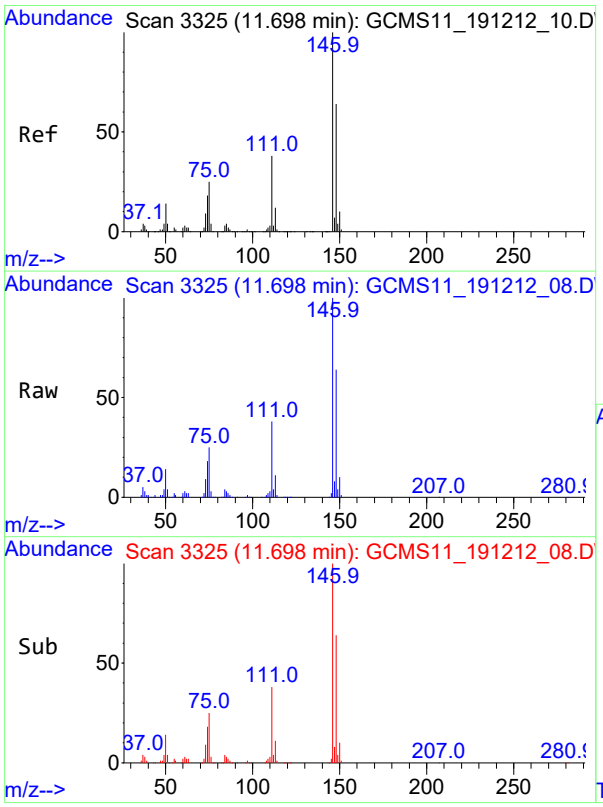


#66
sec-Butylbenzene
Concen: 127.09 ng
RT: 11.608 min Scan# 3297
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

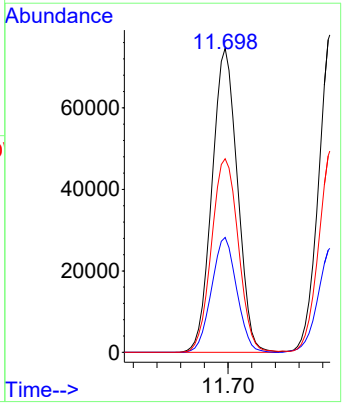


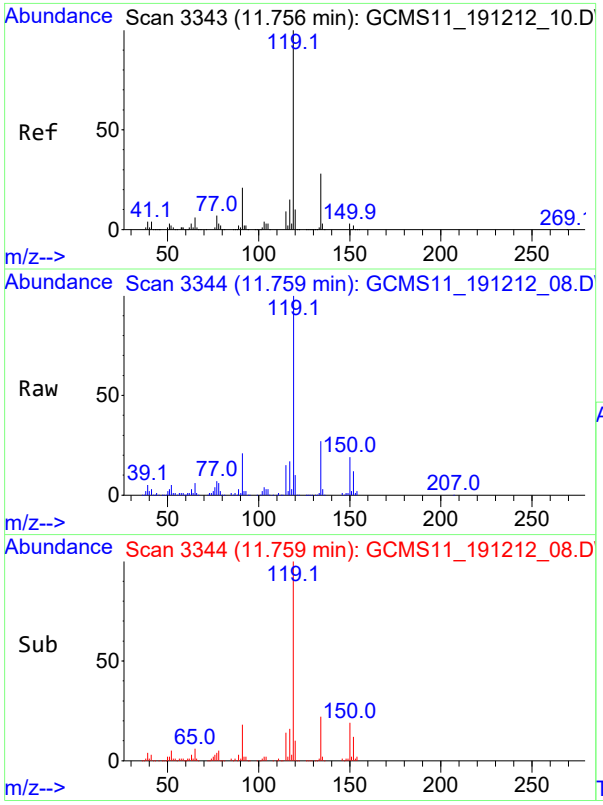


#67
1,3-Dichlorobenzene
Concen: 121.48 ng
RT: 11.698 min Scan# 3325
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

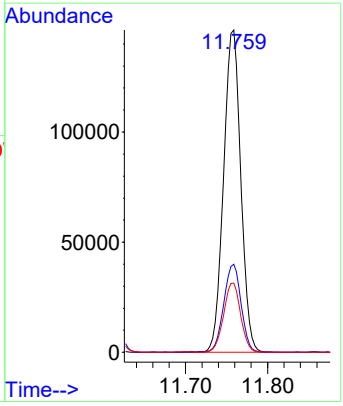


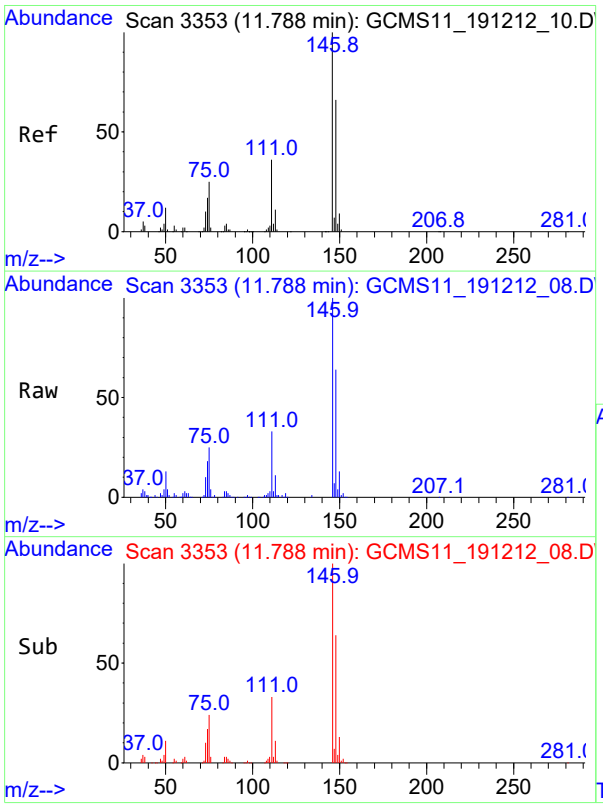


#68
p-Isopropyltoluene
Concen: 124.35 ng
RT: 11.759 min Scan# 3344
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

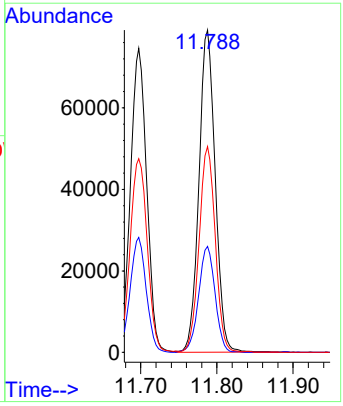


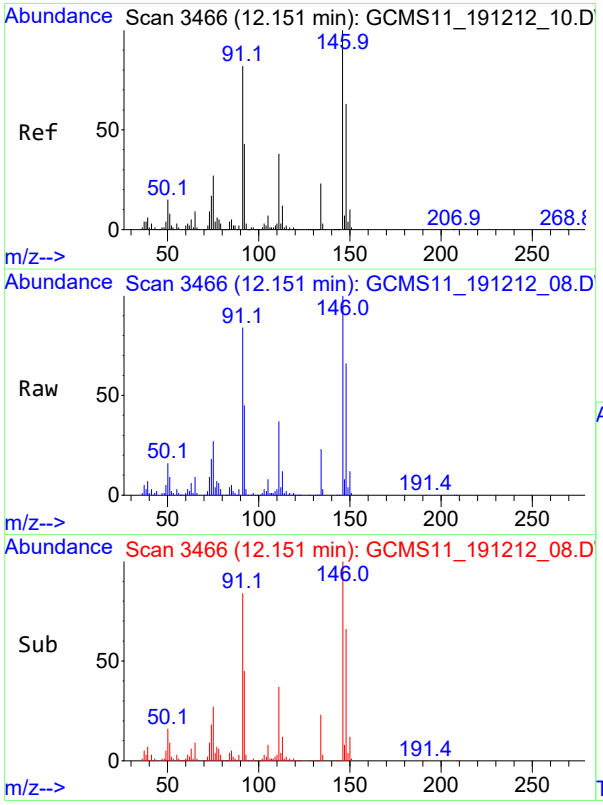


#69
1,4-Dichlorobenzene
Concen: 125.95 ng
RT: 11.788 min Scan# 3353
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

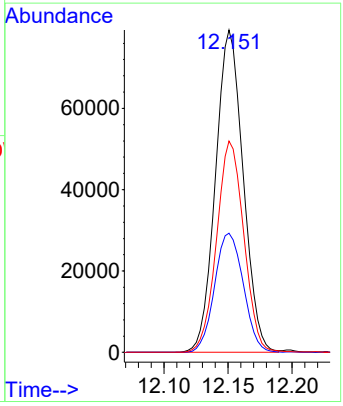


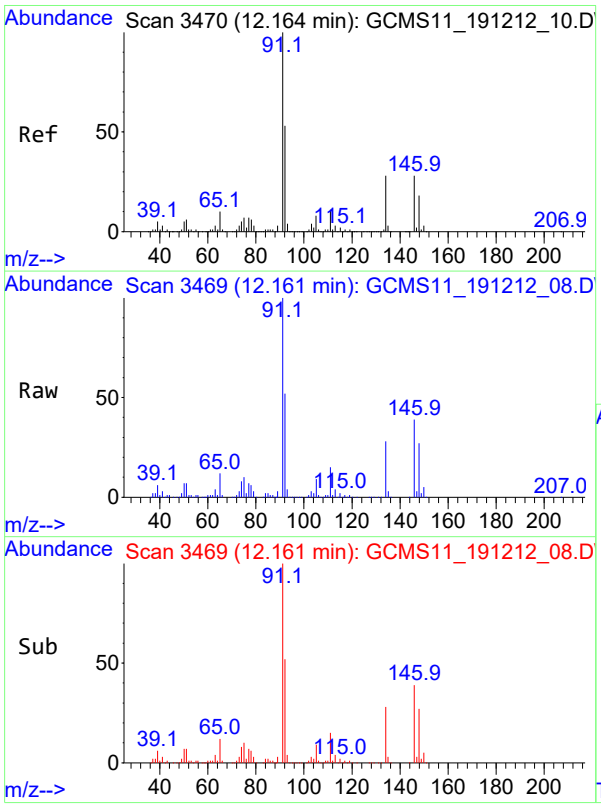


#70
1,2-Dichlorobenzene
Concen: 120.70 ng
RT: 12.151 min Scan# 3466
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

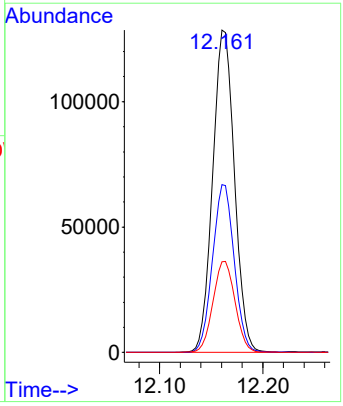


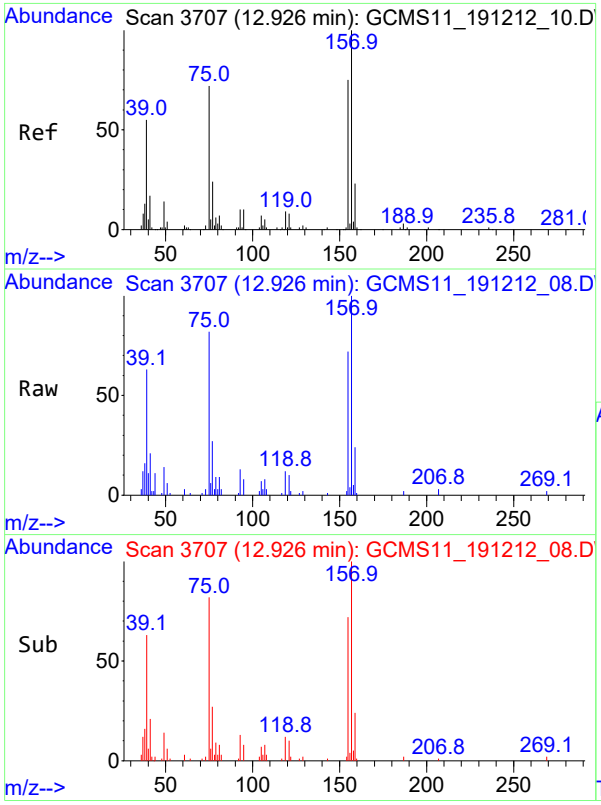


#71
n-Butylbenzene
Concen: 123.67 ng
RT: 12.161 min Scan# 3469
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

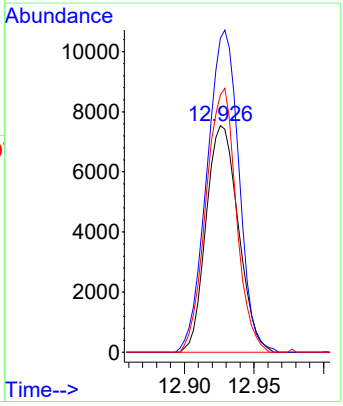


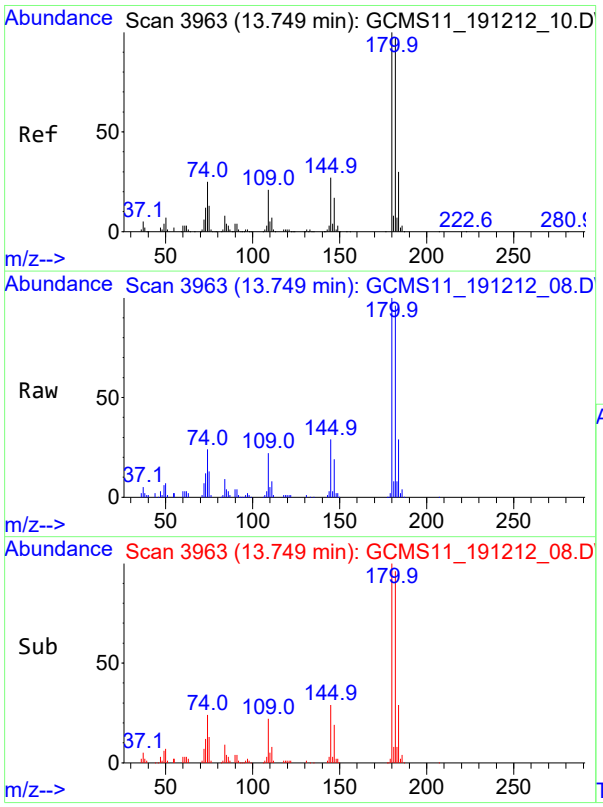


#72
1,2-Dibromo-3-chloropropane
Concen: 119.90 ng
RT: 12.926 min Scan# 3707
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

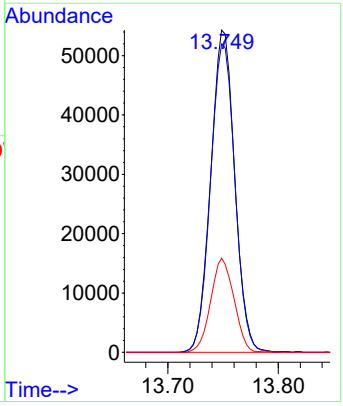


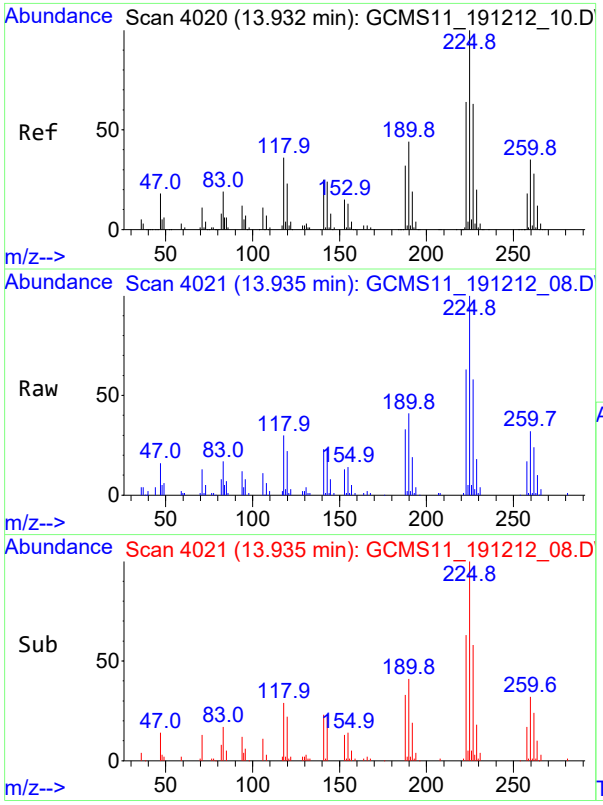


#73
1,2,4-Trichlorobenzene
Concen: 122.95 ng
RT: 13.749 min Scan# 3963
Delta R.T. 0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

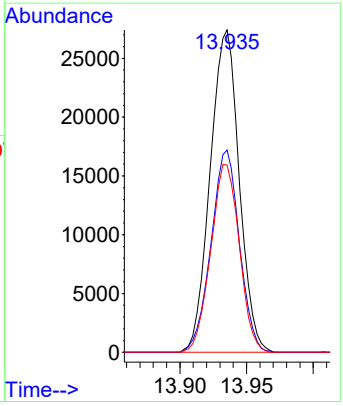


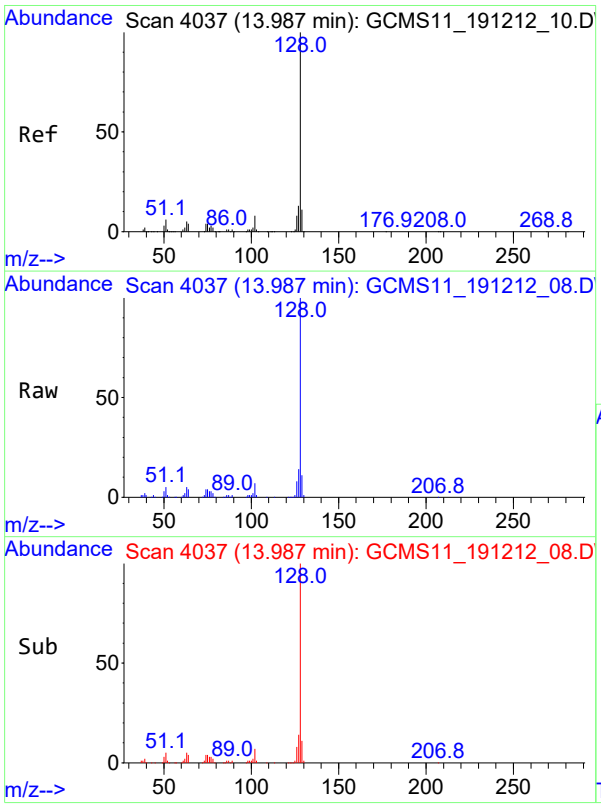


#74
Hexachlorobutadiene
Concen: 133.72 ng
RT: 13.935 min Scan# 4021
Delta R.T. 0.003 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

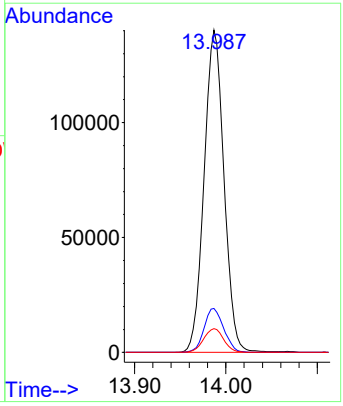


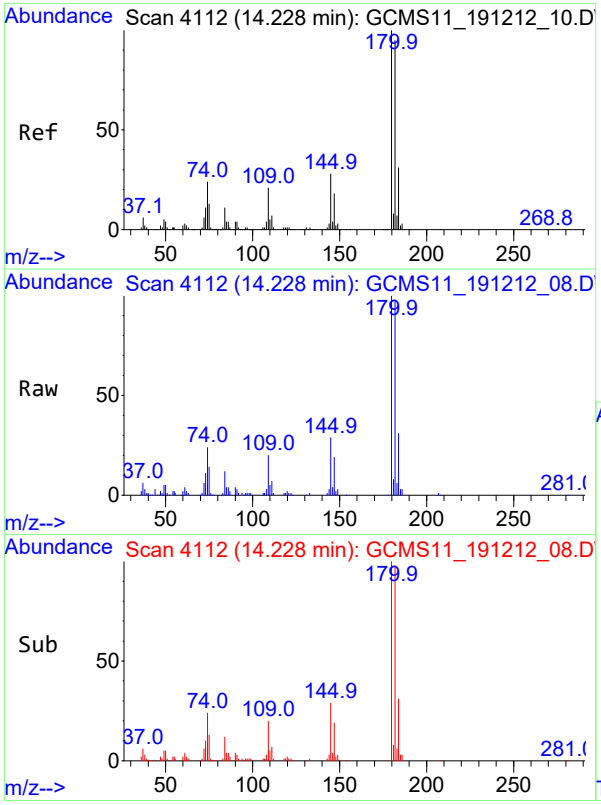


#75
Naphthalene
Concen: 124.42 ng
RT: 13.987 min Scan# 4037
Delta R.T. -0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

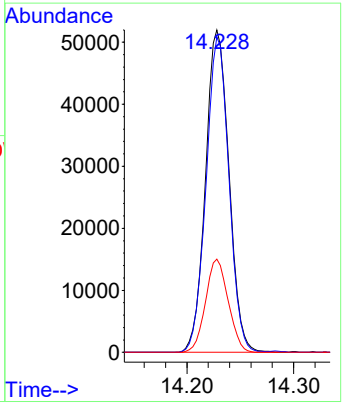




#76
1,2,3-Trichlorobenzene
Concen: 115.89 ng
RT: 14.228 min Scan# 4112
Delta R.T. -0.000 min
Lab File: GCMS11_191212_08.D
Acq: 12 Dec 2019 2:31 pm

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

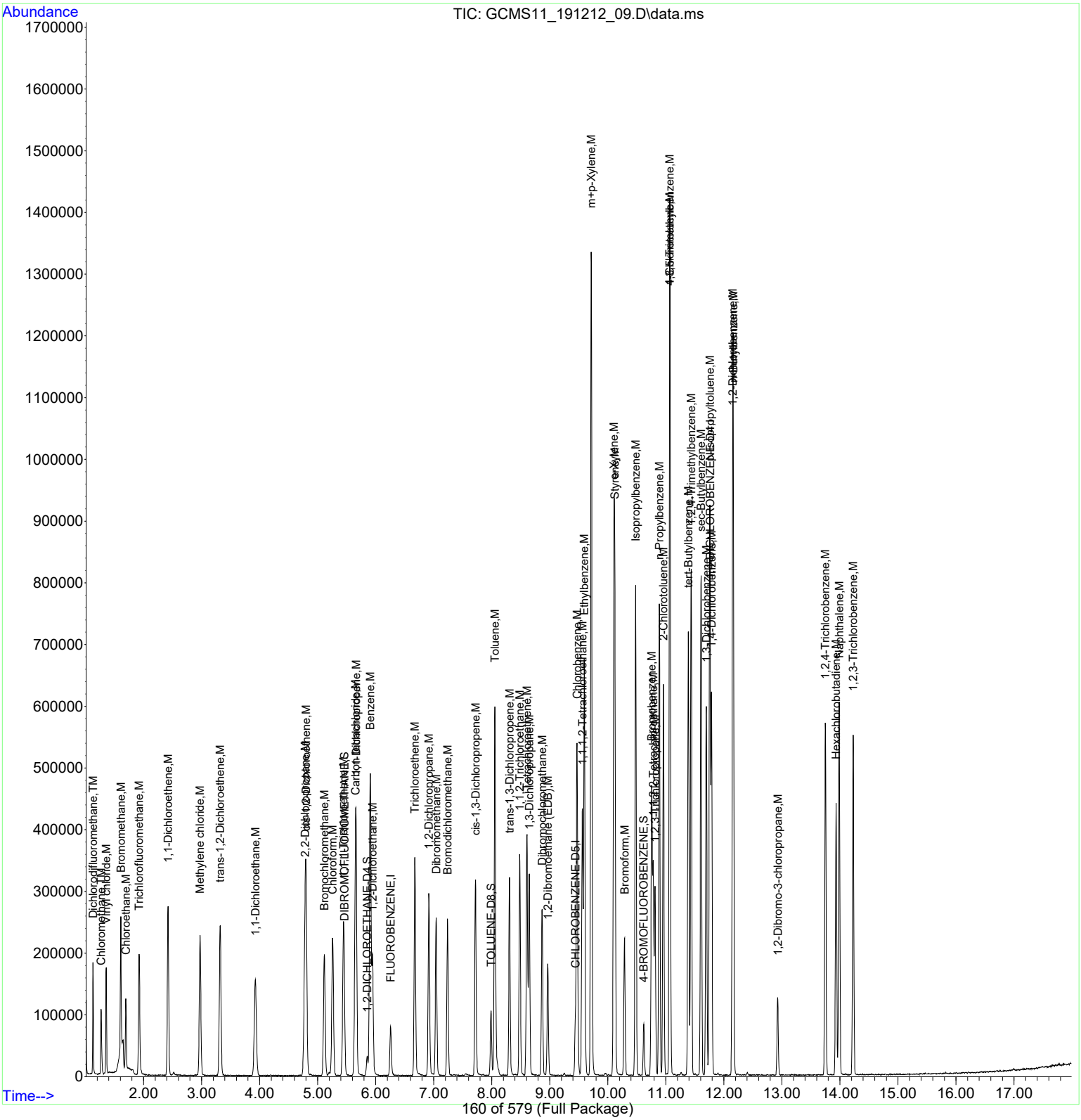
Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
58) n-Propylbenzene	10.887	91	557262	256.13 ng		99
59) 2-Chlorotoluene	10.958	91	324050	254.87 ng		98
60) 1,3,5-Trimethylbenzene	11.067	105	401911	255.07 ng		99
61) 4-Chlorotoluene	11.067	91	371115	250.20 ng		98
63) 1,1,2,2-Tetrachloroethane	10.781	83	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

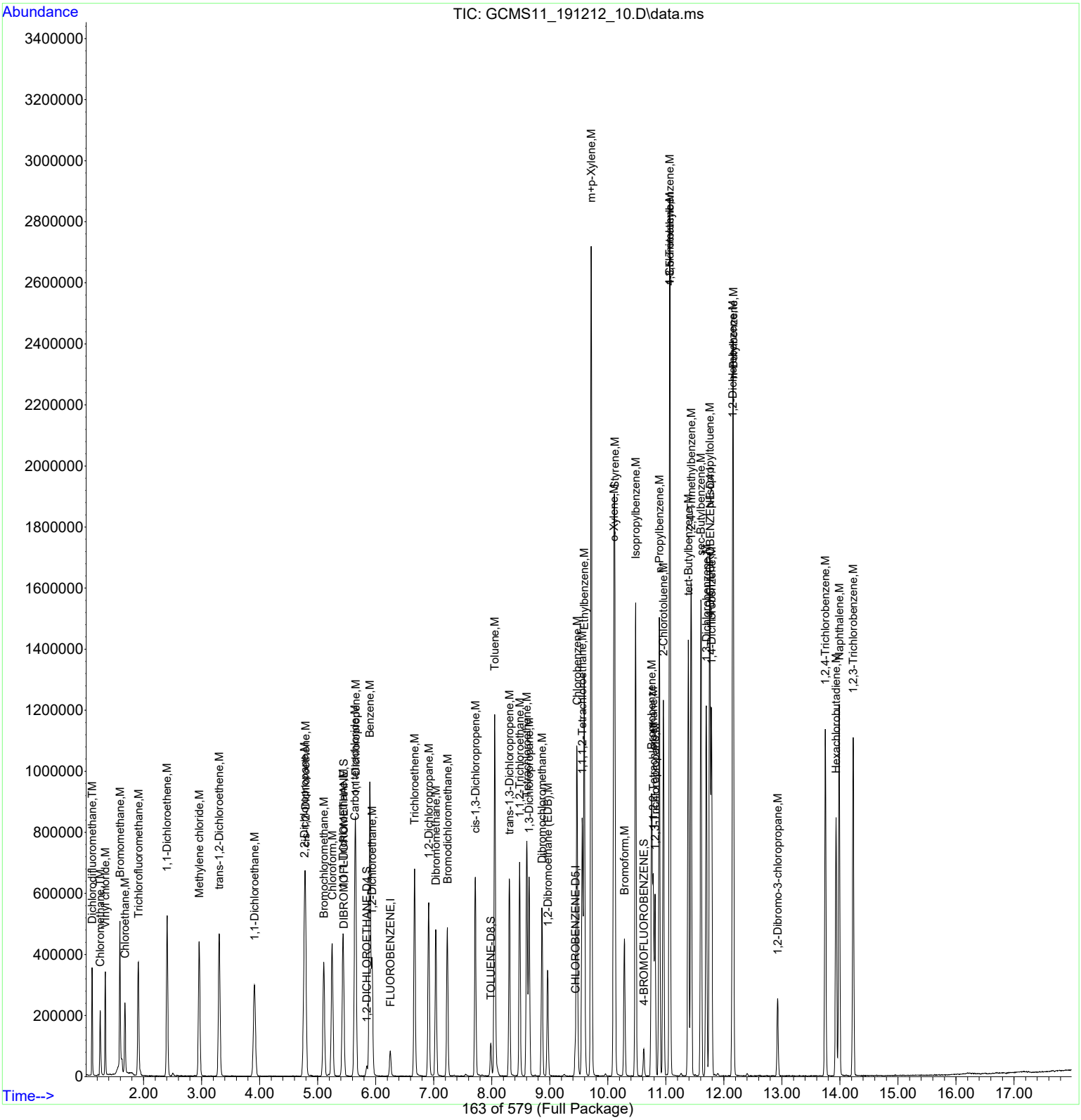
	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
58)	n-Propylbenzene	10.887	91	1104834	500.42 ng		99
59)	2-Chlorotoluene	10.958	91	647397	501.77 ng		99
60)	1,3,5-Trimethylbenzene	11.067	105	813264	508.62 ng		100
61)	4-Chlorotoluene	11.067	91	765939	508.86 ng		99
63)	1,1,2,2-Tetrachloroethane	10.781	83	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



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

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

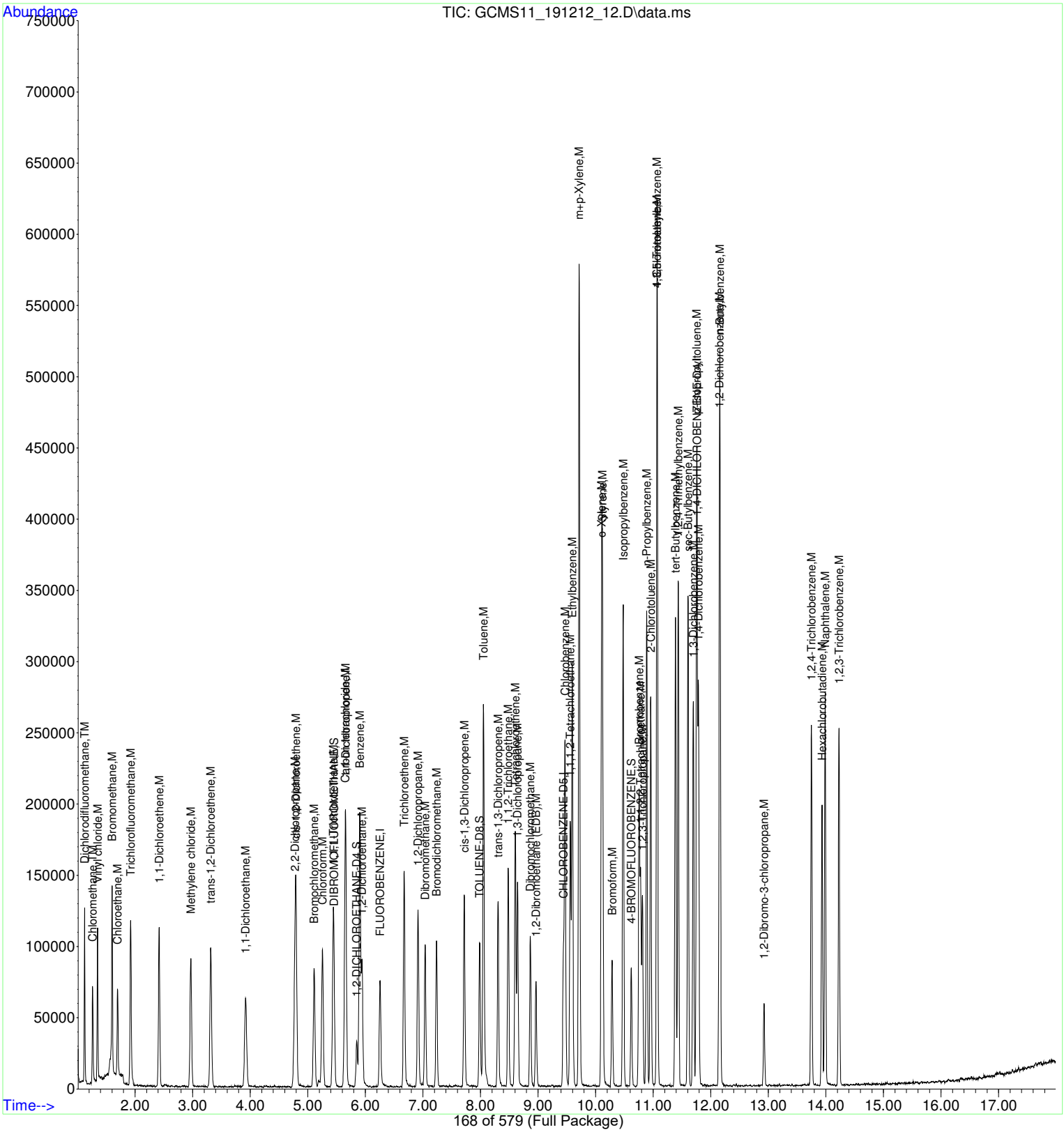
Quant Time: Dec 13 10:33:53 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

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_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 : 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

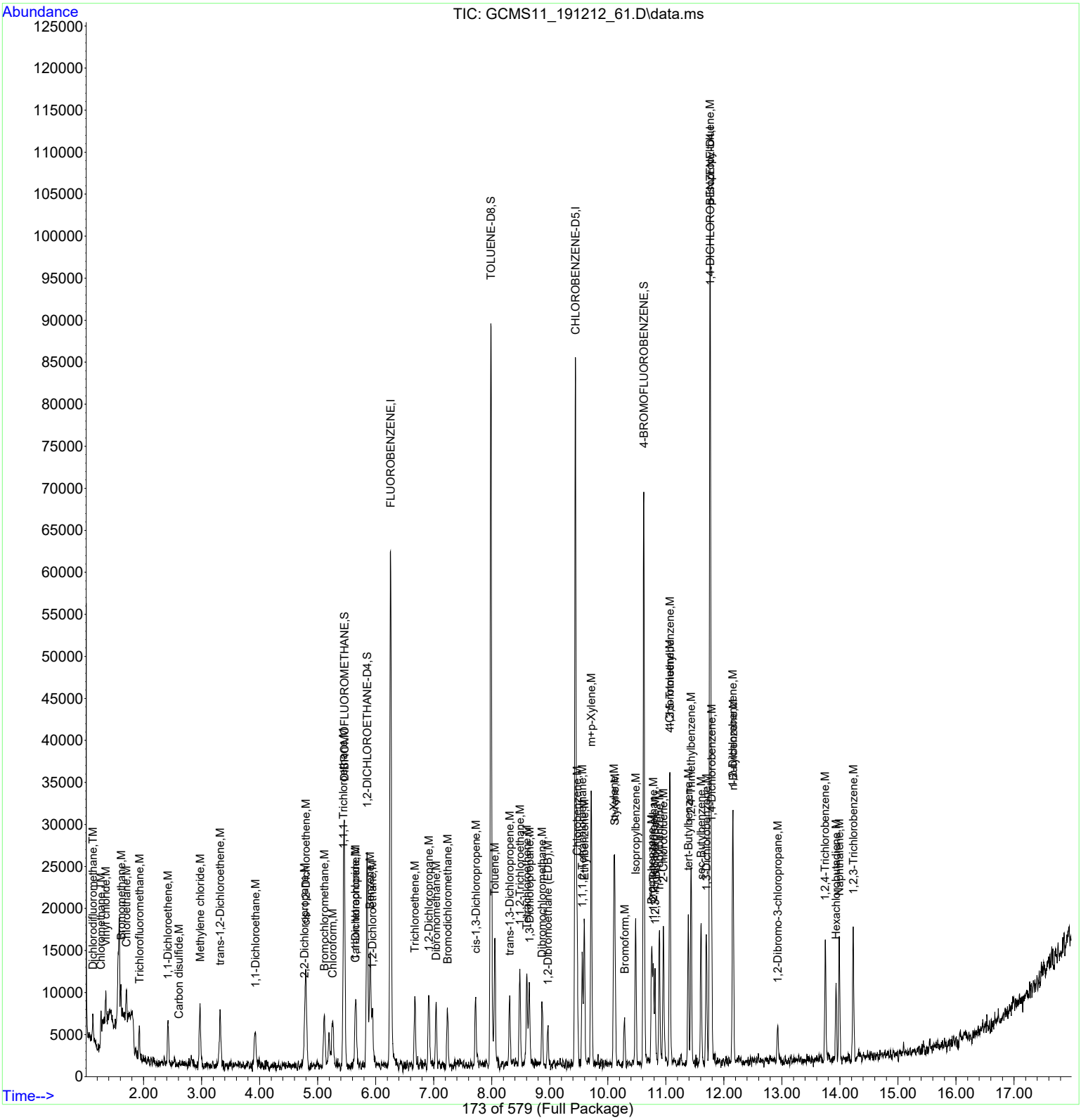
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57)	1,2,3-Trichloropropane	10.813	75	4109	11.46	ng		86
58)	n-Propylbenzene	10.887	91	12160	6.94	ng		99
59)	2-Chlorotoluene	10.958	91	8866	8.65	ng		93
60)	1,3,5-Trimethylbenzene	11.071	105	9505	7.49	ng		99
61)	4-Chlorotoluene	11.067	91	9234	7.73	ng		97
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

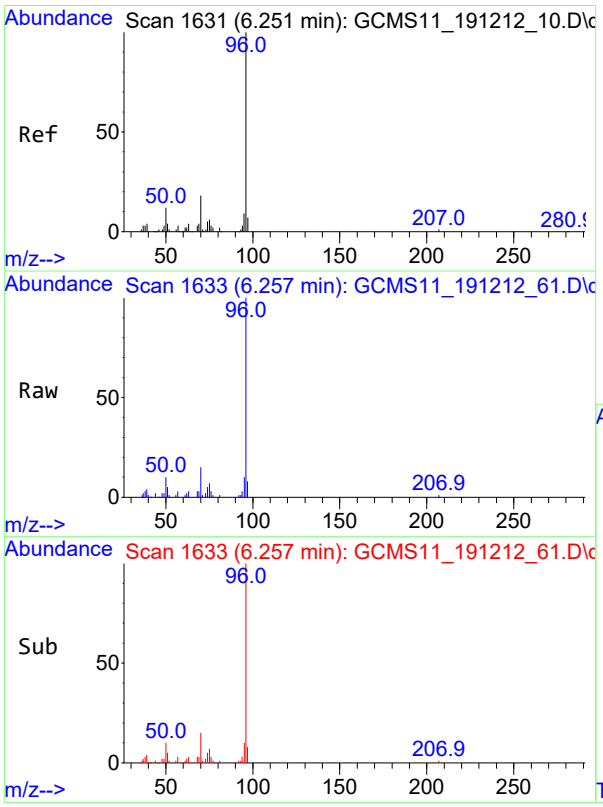
Quantitation Report (QT Reviewed)

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



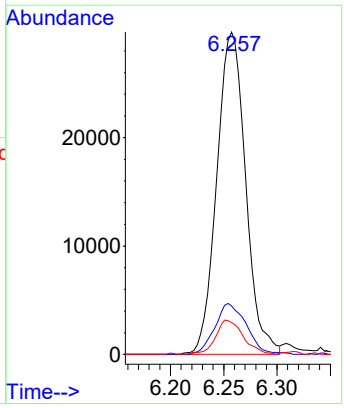
173 of 579 (Full Package)

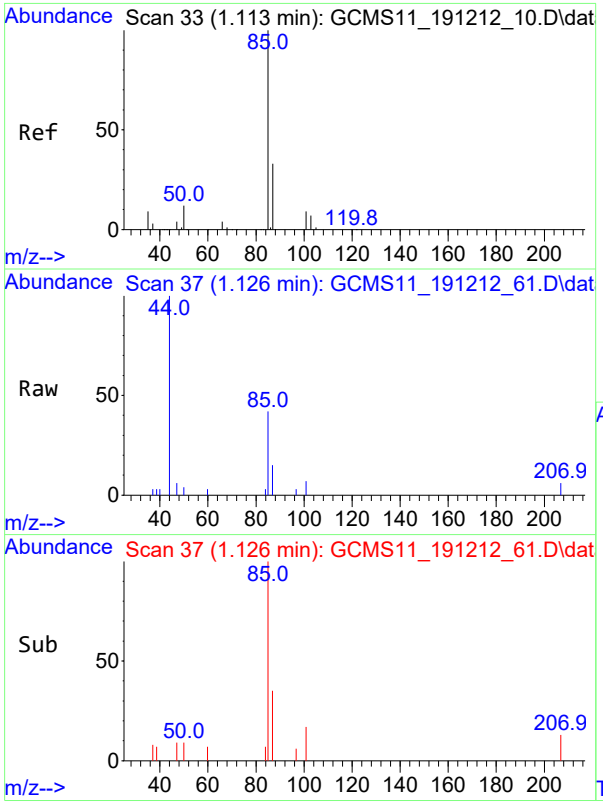


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.257 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

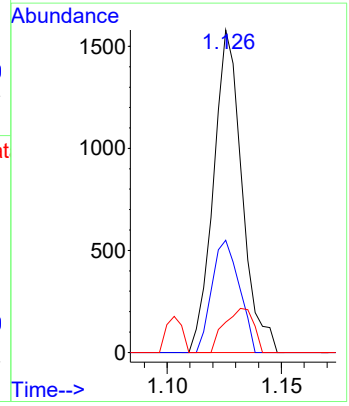


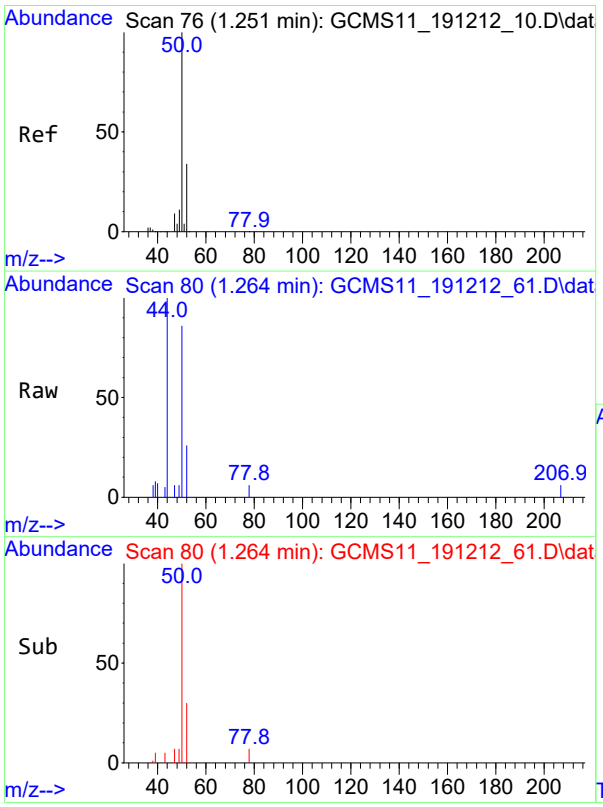


#2
Dichlorodifluoromethane
Concen: 5.26 ng
RT: 1.126 min Scan# 37
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

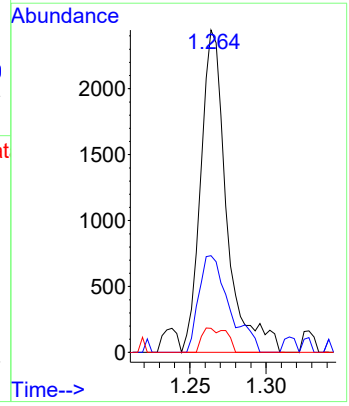


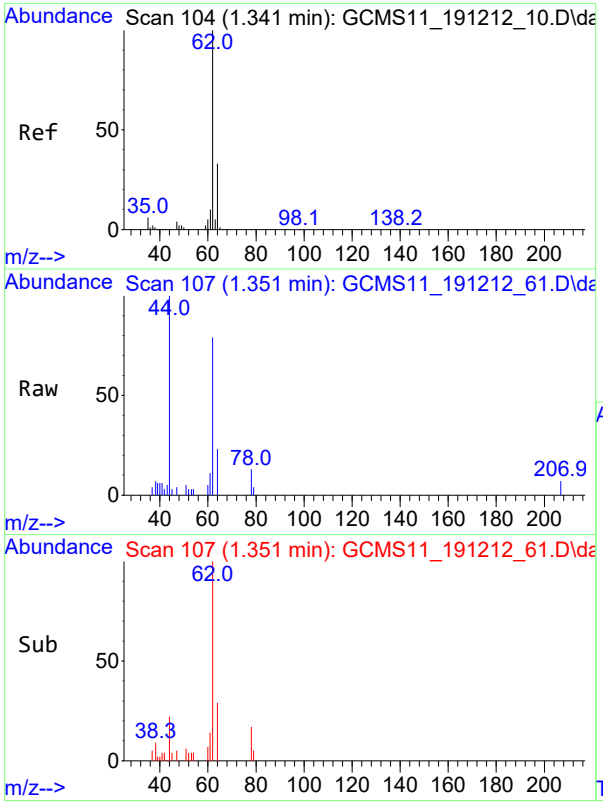


#3
Chloromethane
Concen: 12.18 ng
RT: 1.264 min Scan# 80
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

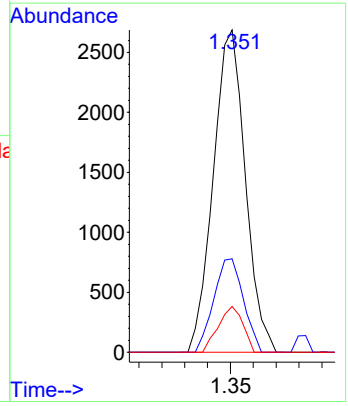


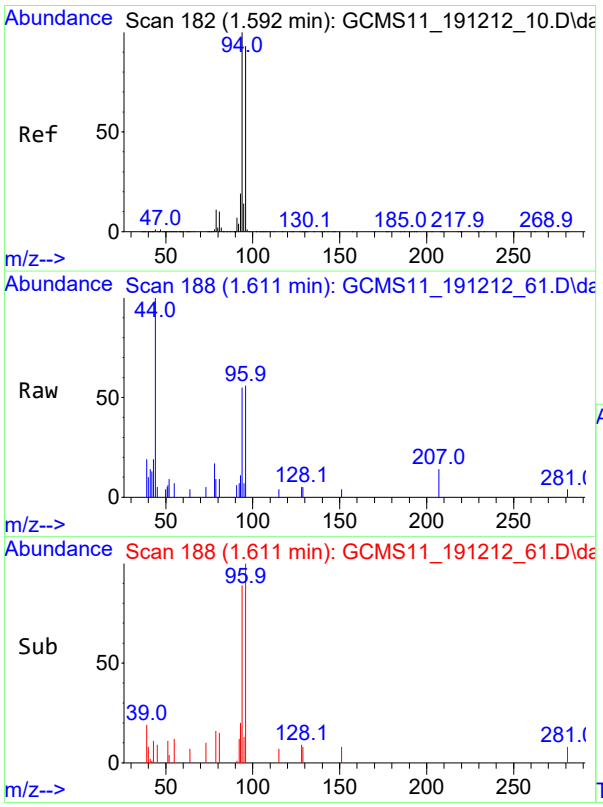


#4
Vinyl chloride
Concen: 8.66 ng
RT: 1.351 min Scan# 107
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

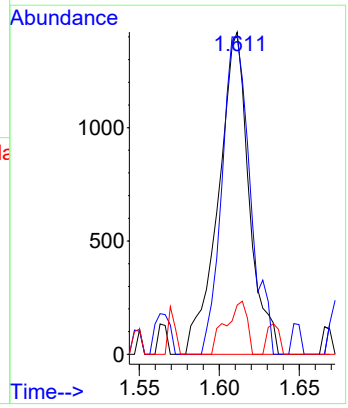


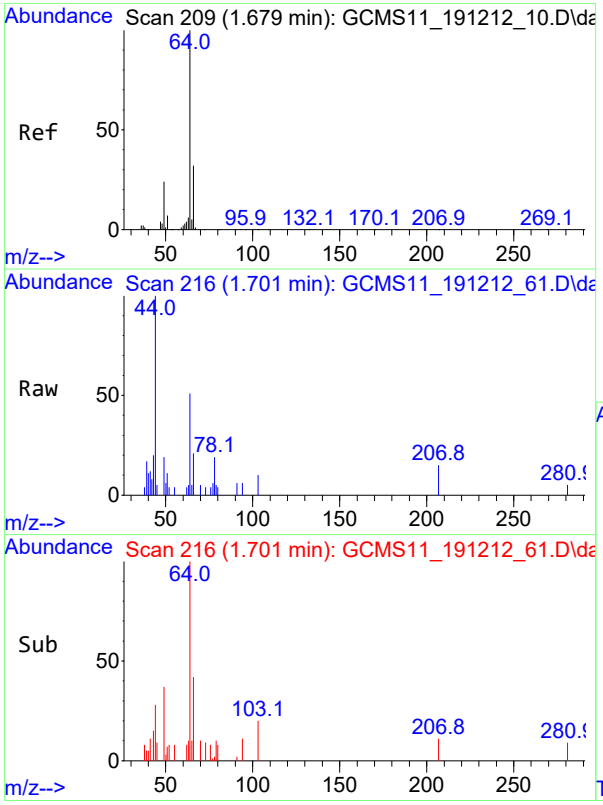


#5
Bromomethane
Concen: 7.54 ng
RT: 1.611 min Scan# 188
Delta R.T. 0.006 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

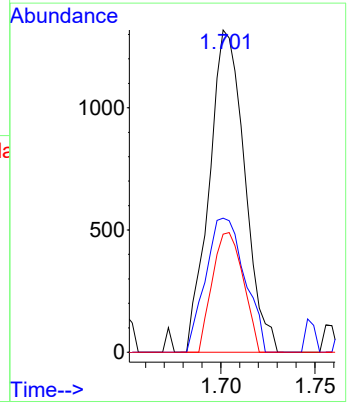


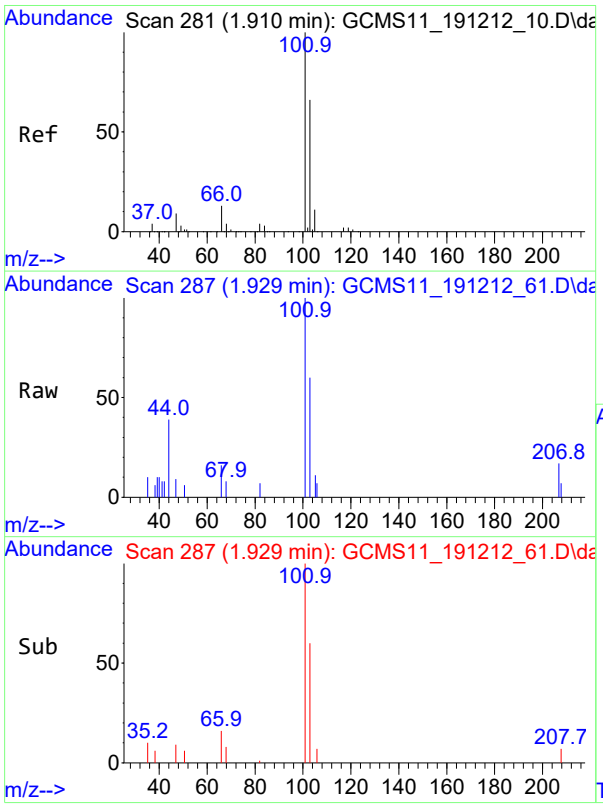


#6
Chloroethane
Concen: 7.85 ng
RT: 1.701 min Scan# 216
Delta R.T. 0.006 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

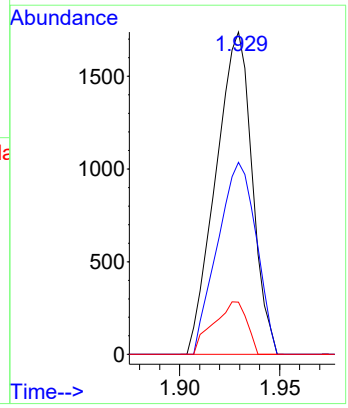


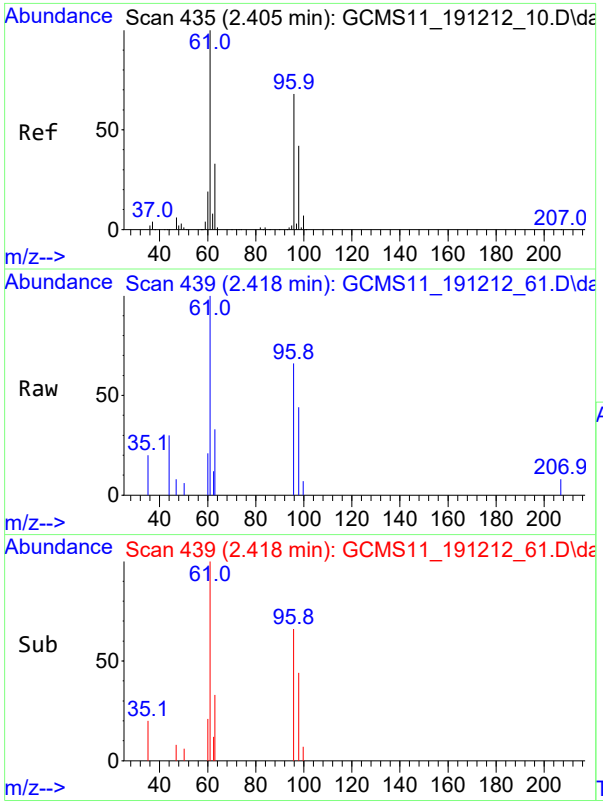


#7
Trichlorofluoromethane
Concen: 5.64 ng
RT: 1.929 min Scan# 287
Delta R.T. 0.006 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

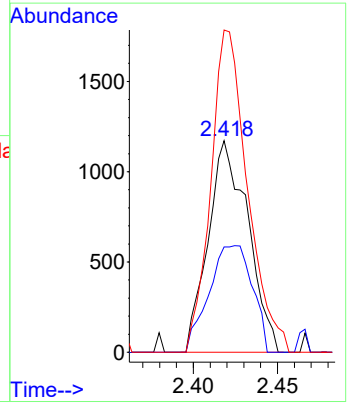


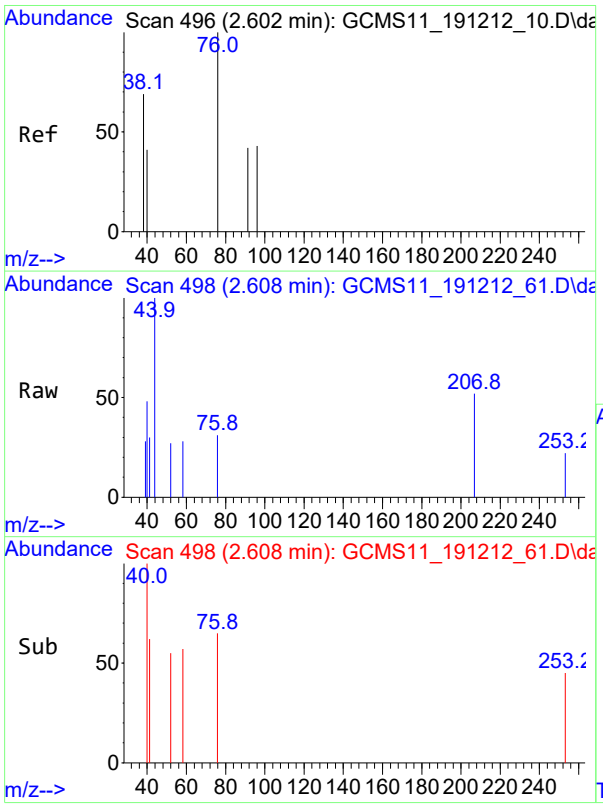


#9
1,1-Dichloroethene
Concen: 6.63 ng
RT: 2.418 min Scan# 439
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

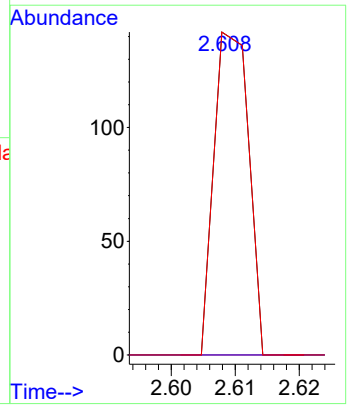


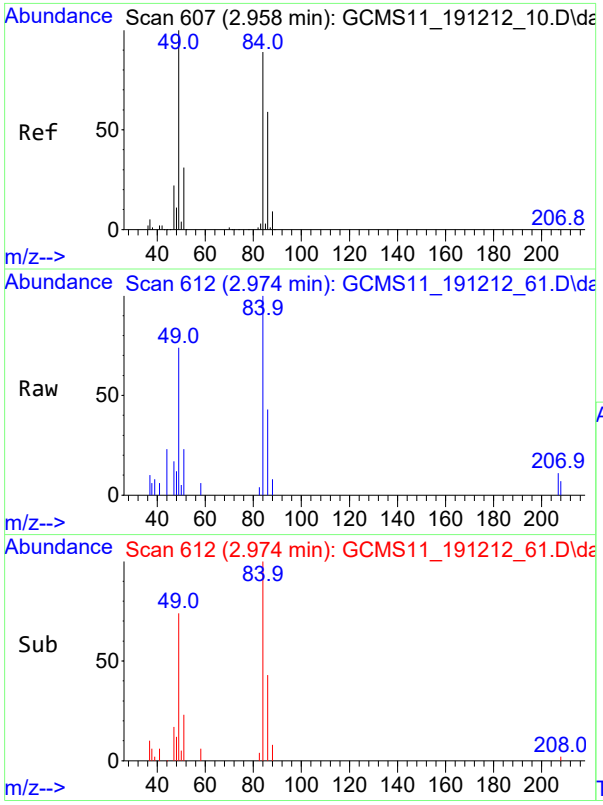


#11
Carbon disulfide
Concen: 52.99 ng
RT: 2.608 min Scan# 498
Delta R.T. -0.016 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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#

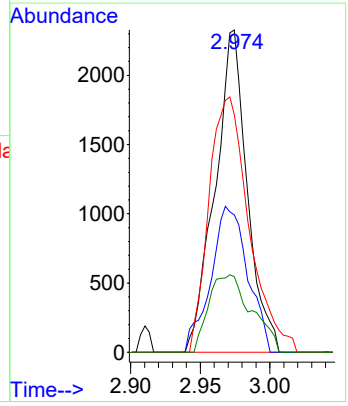


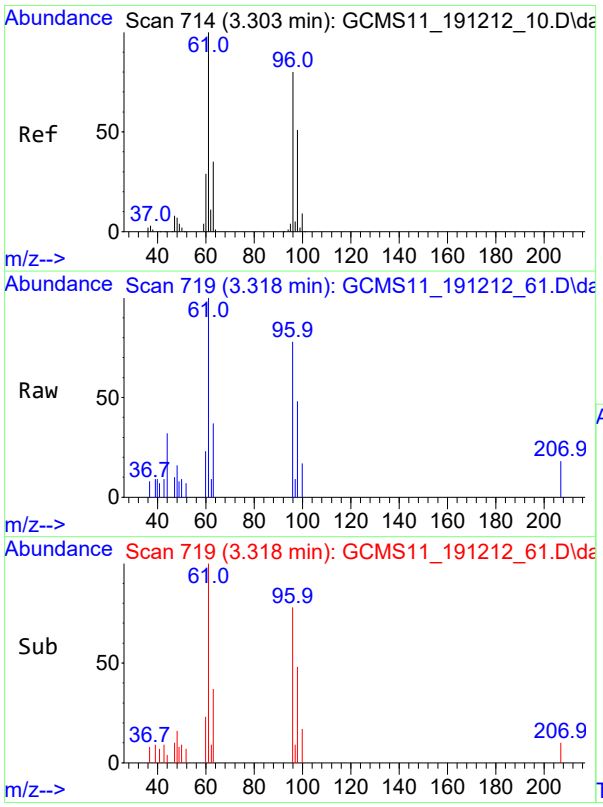


#12
Methylene chloride
Concen: 10.64 ng
RT: 2.974 min Scan# 612
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

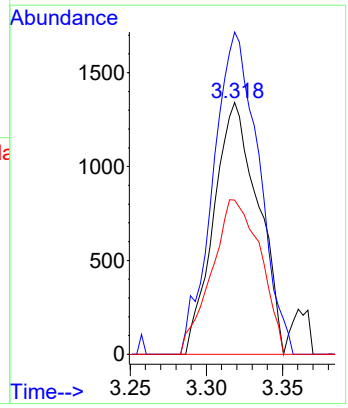


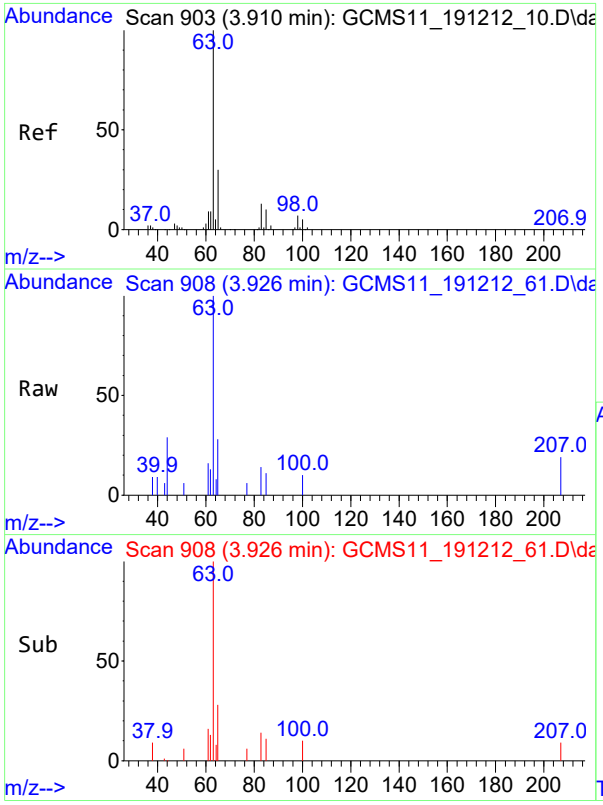


#14
trans-1,2-Dichloroethene
Concen: 8.33 ng
RT: 3.318 min Scan# 719
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

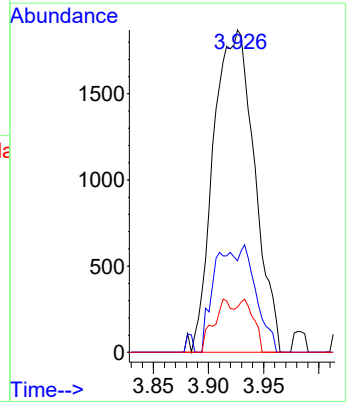


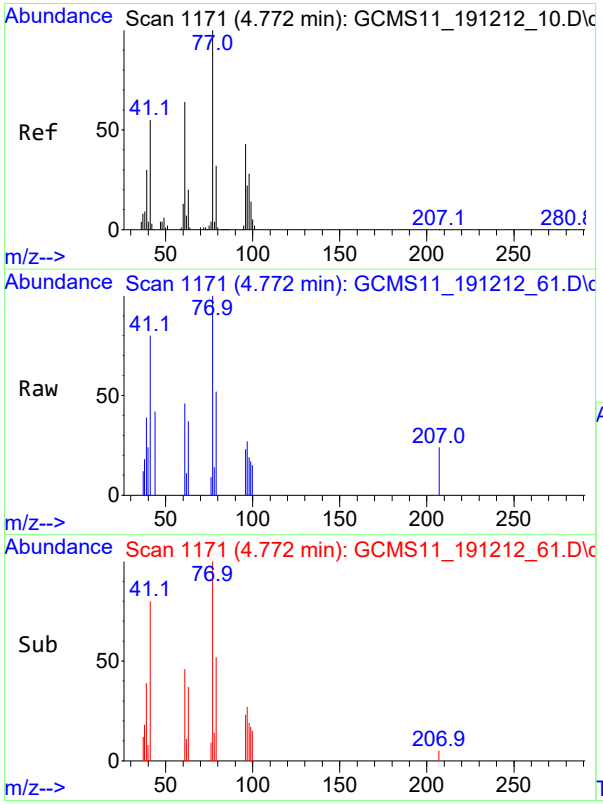


#16
1,1-Dichloroethane
Concen: 8.96 ng
RT: 3.926 min Scan# 908
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

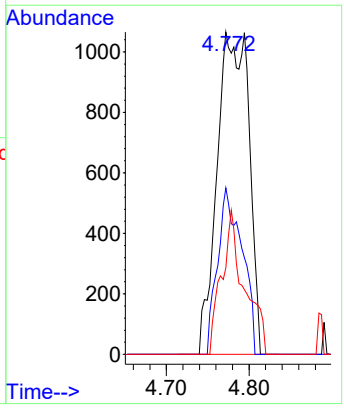


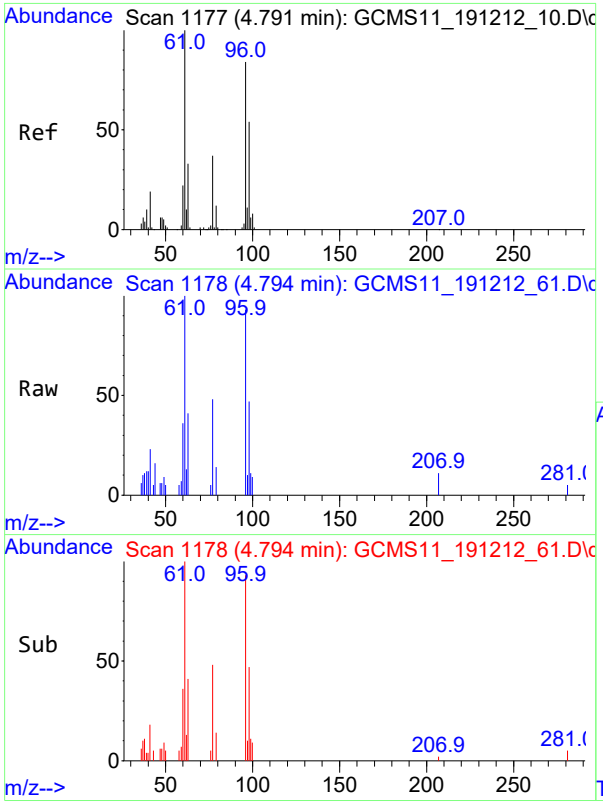


#17
2,2-Dichloropropane
Concen: 6.35 ng m
RT: 4.772 min Scan# 1171
Delta R.T. -0.010 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

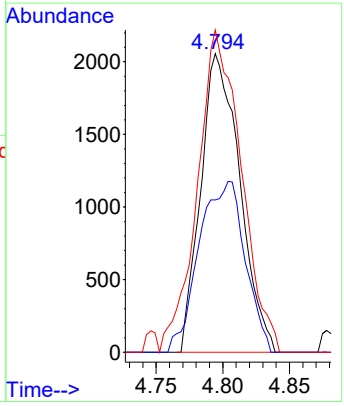


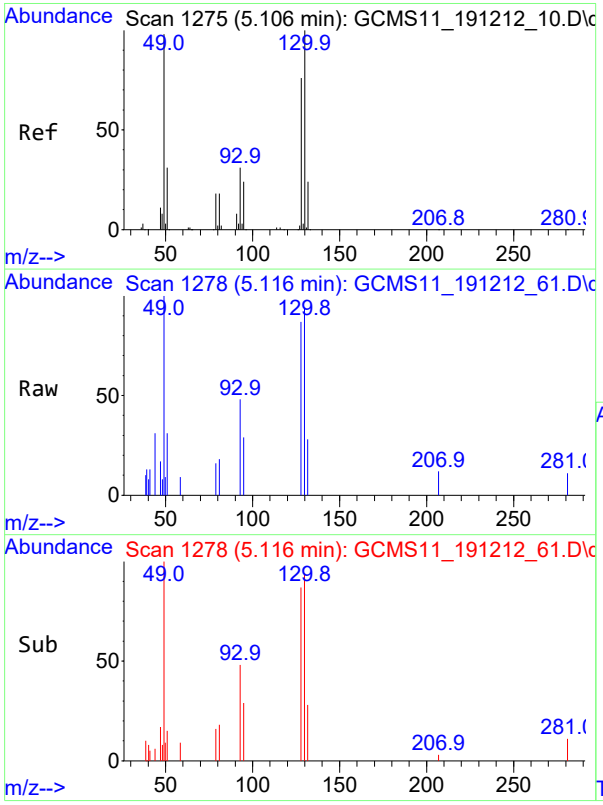


#18
cis-1,2-Dichloroethene
Concen: 11.84 ng
RT: 4.794 min Scan# 1178
Delta R.T. -0.006 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

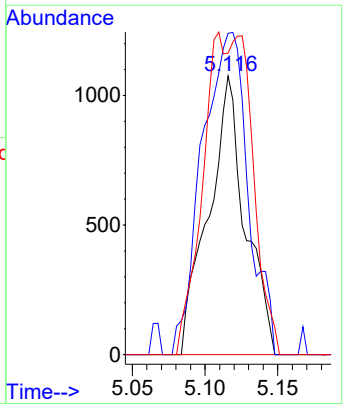


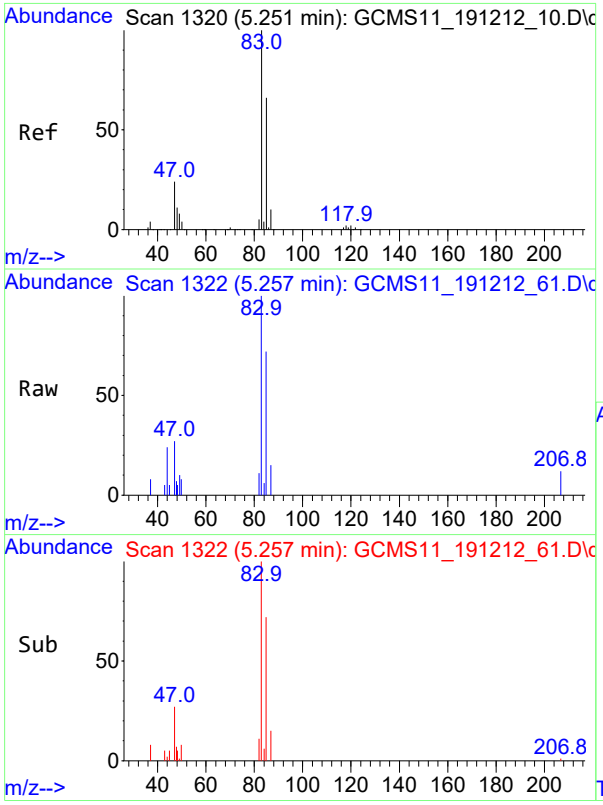


#20
Bromochloromethane
Concen: 9.82 ng
RT: 5.116 min Scan# 1278
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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#

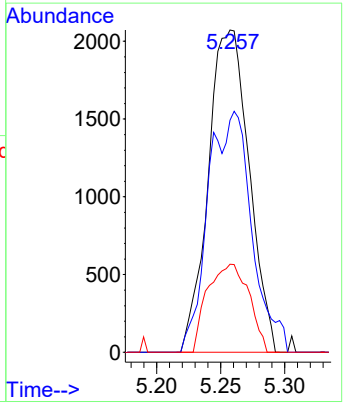


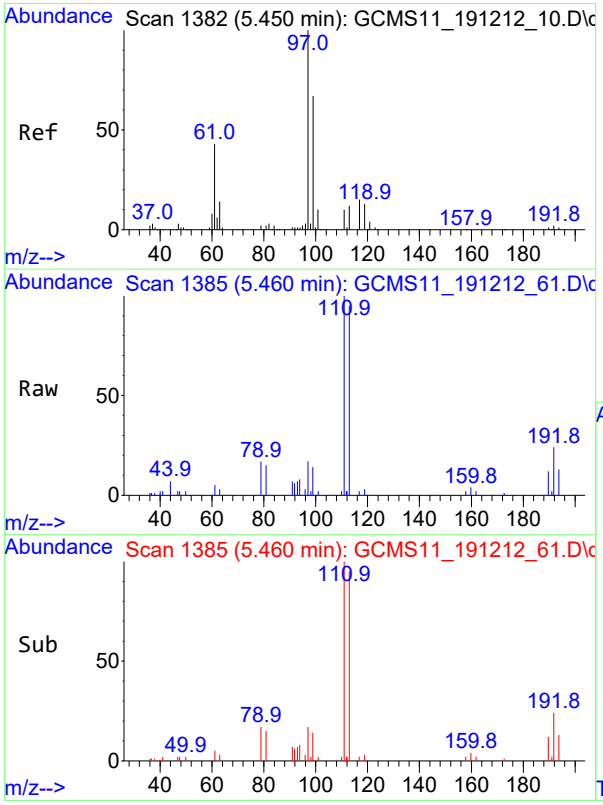


#21
Chloroform
Concen: 8.53 ng
RT: 5.257 min Scan# 1322
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

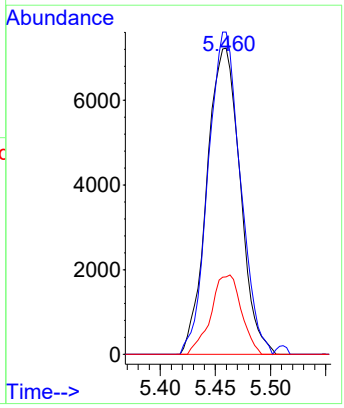


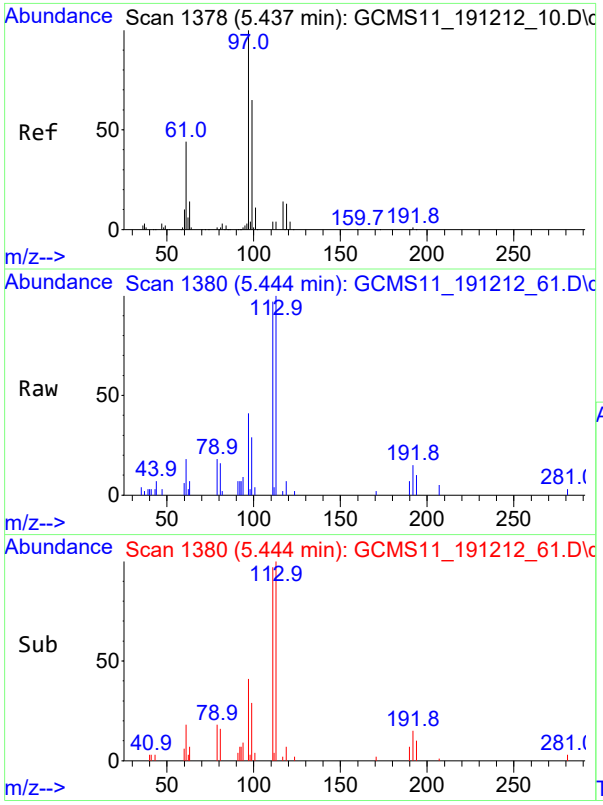


#22
DIBROMOFLUOROMETHANE
Concen: 51.49 ng
RT: 5.460 min Scan# 1385
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

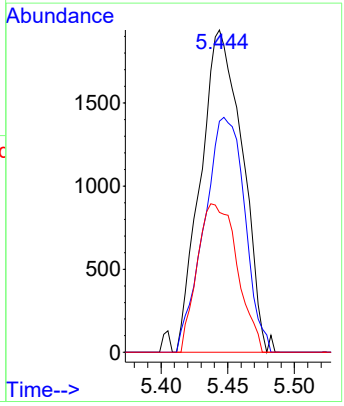


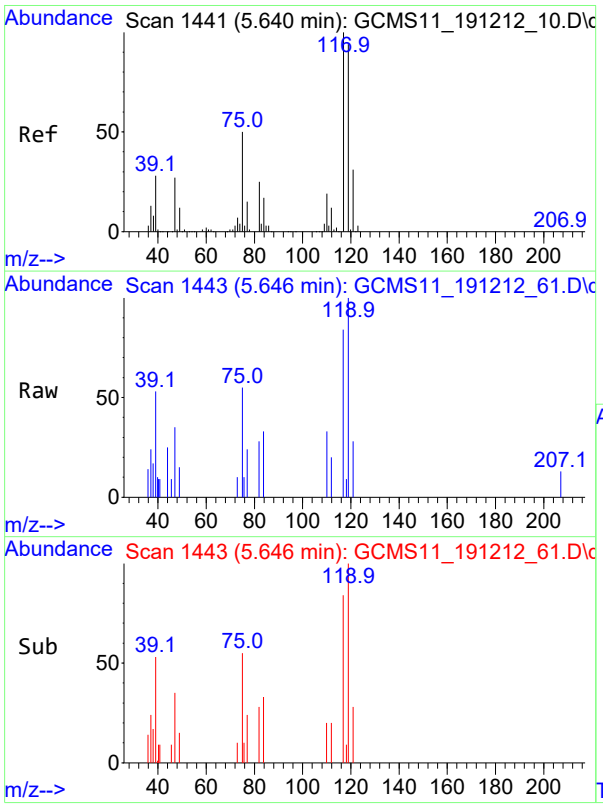


#23
1,1,1-Trichloroethane
Concen: 8.60 ng
RT: 5.444 min Scan# 1380
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

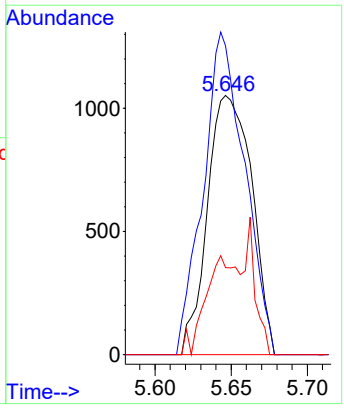


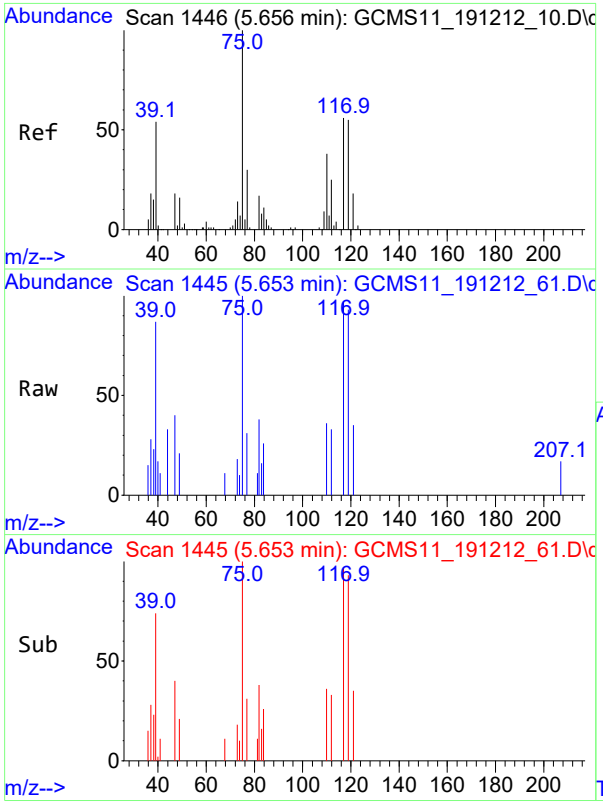


#24
Carbon tetrachloride
Concen: 4.83 ng
RT: 5.646 min Scan# 1443
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

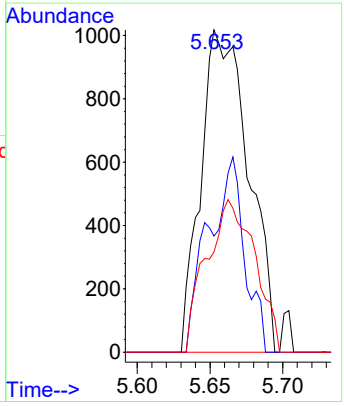


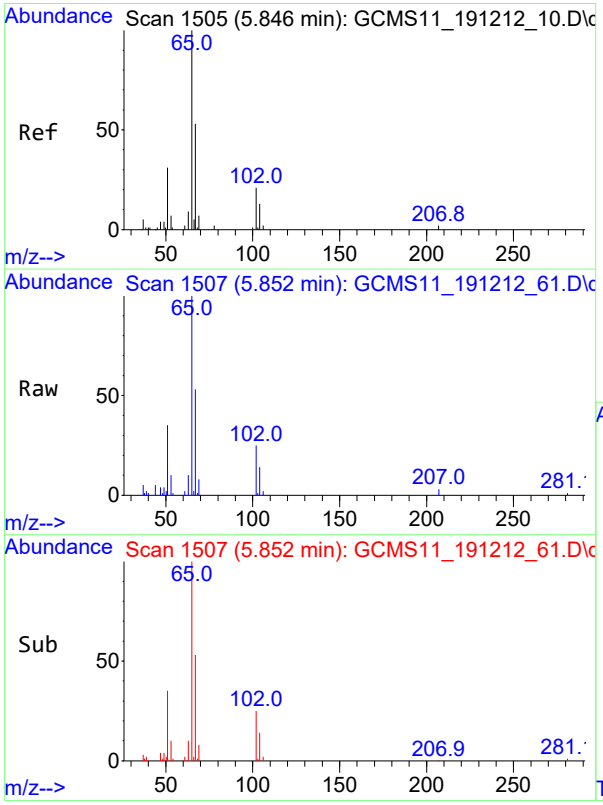


#25
1,1-Dichloropropene
Concen: 5.81 ng
RT: 5.653 min Scan# 1445
Delta R.T. -0.010 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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#

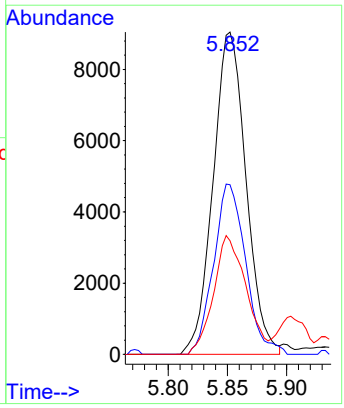


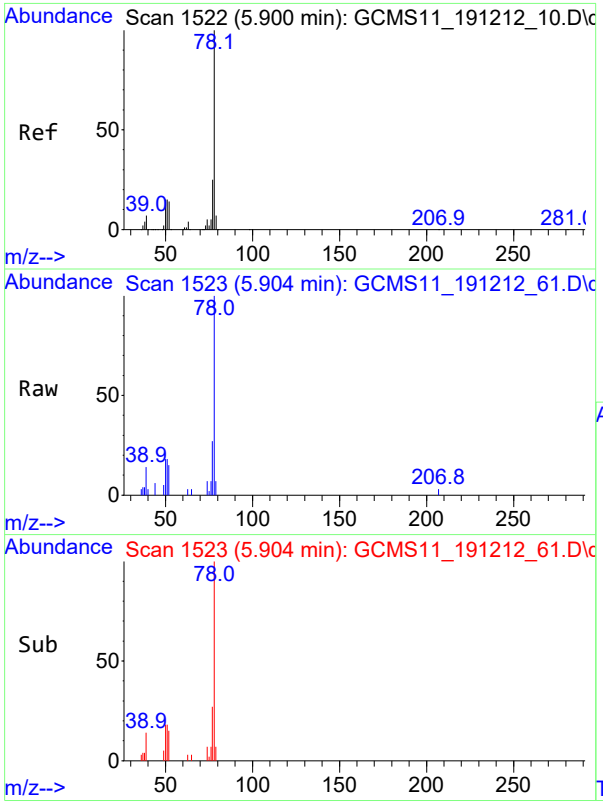


#26
1,2-DICHLOROETHANE-D4
Concen: 49.88 ng
RT: 5.852 min Scan# 1507
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

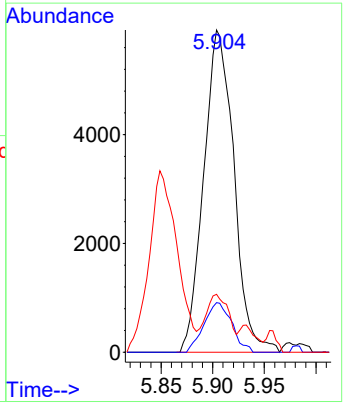


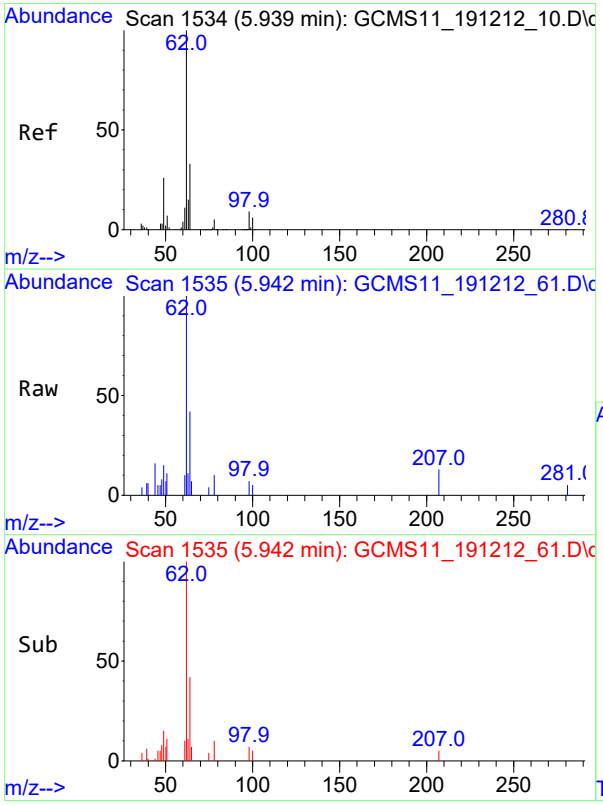


#27
Benzene
Concen: 8.89 ng
RT: 5.904 min Scan# 1523
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

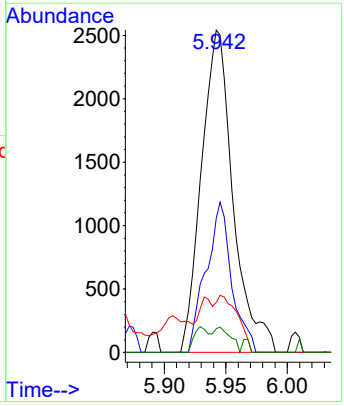


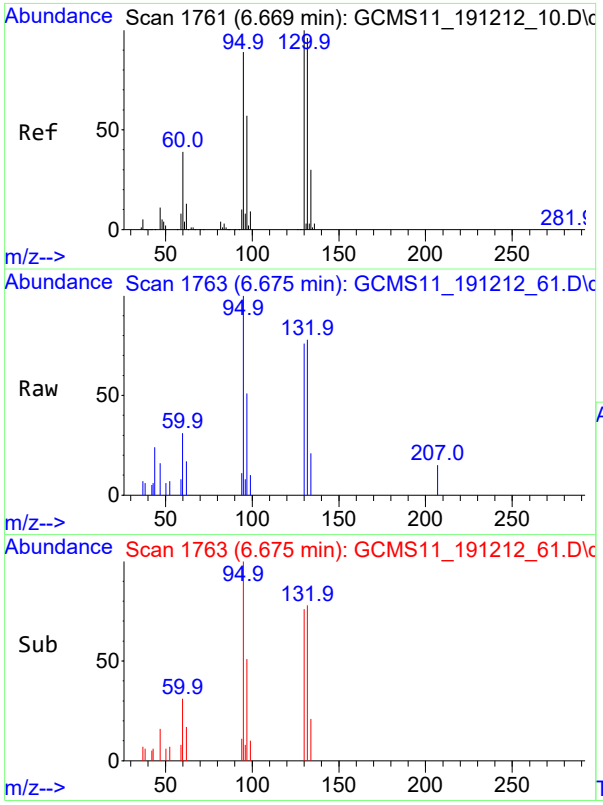


#28
1,2-Dichloroethane
Concen: 9.96 ng
RT: 5.942 min Scan# 1535
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

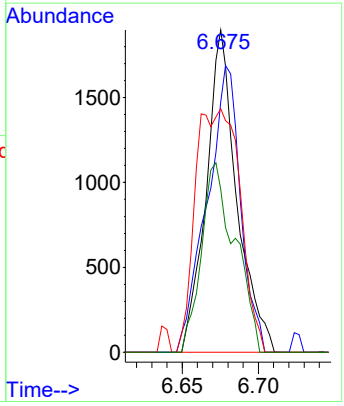


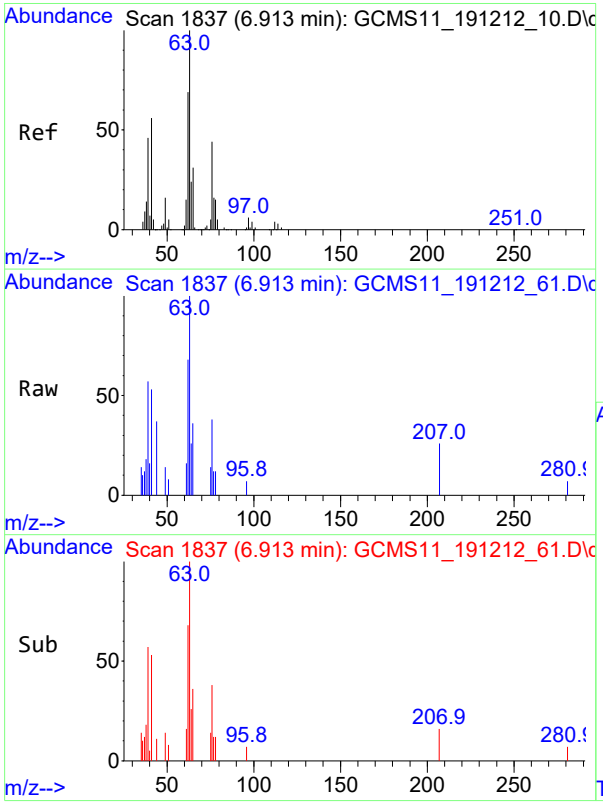


#29
Trichloroethene
Concen: 8.30 ng
RT: 6.675 min Scan# 1763
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

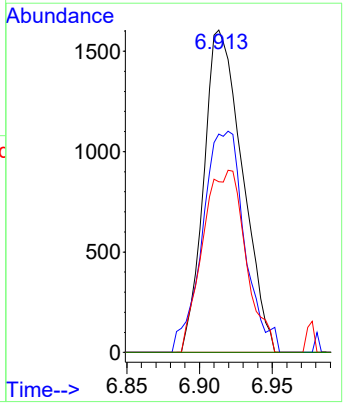


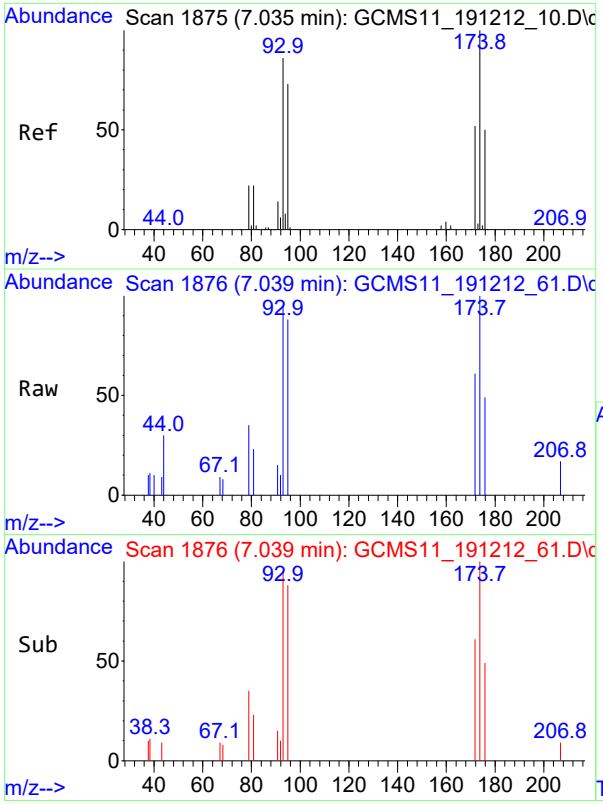


#30
1,2-Dichloropropane
Concen: 9.85 ng
RT: 6.913 min Scan# 1837
Delta R.T. -0.006 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

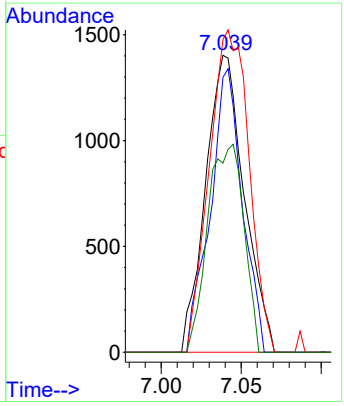


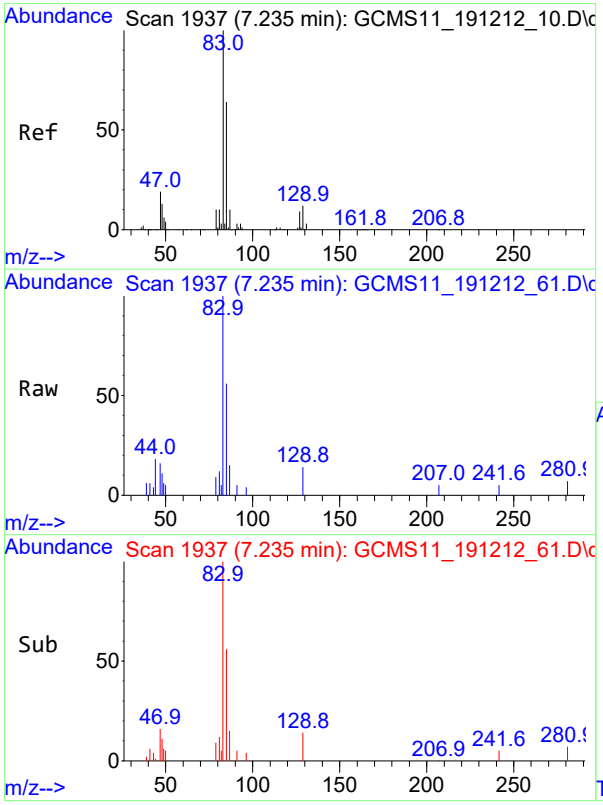


#31
Dibromomethane
Concen: 9.64 ng
RT: 7.039 min Scan# 1876
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

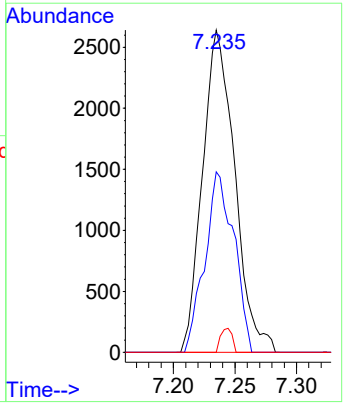


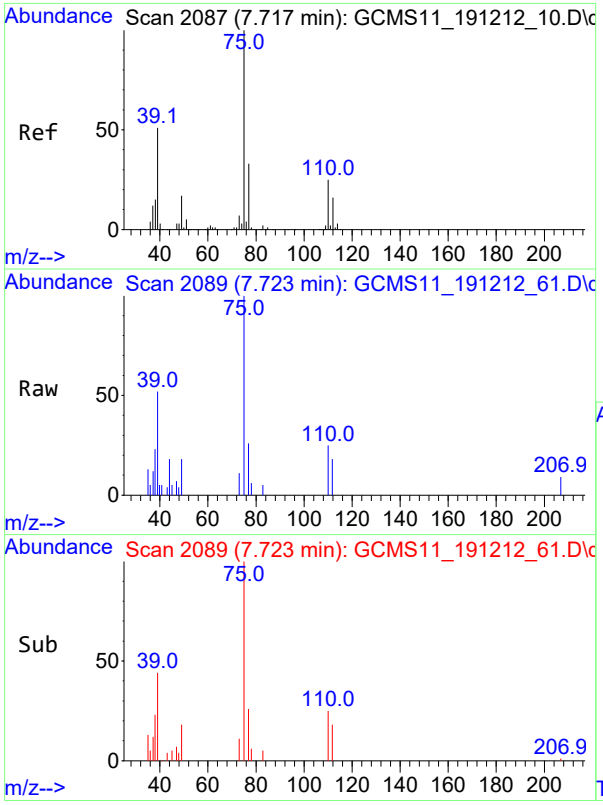


#33
Bromodichloromethane
Concen: 11.32 ng
RT: 7.235 min Scan# 1937
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

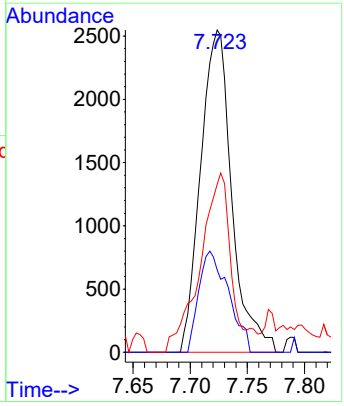


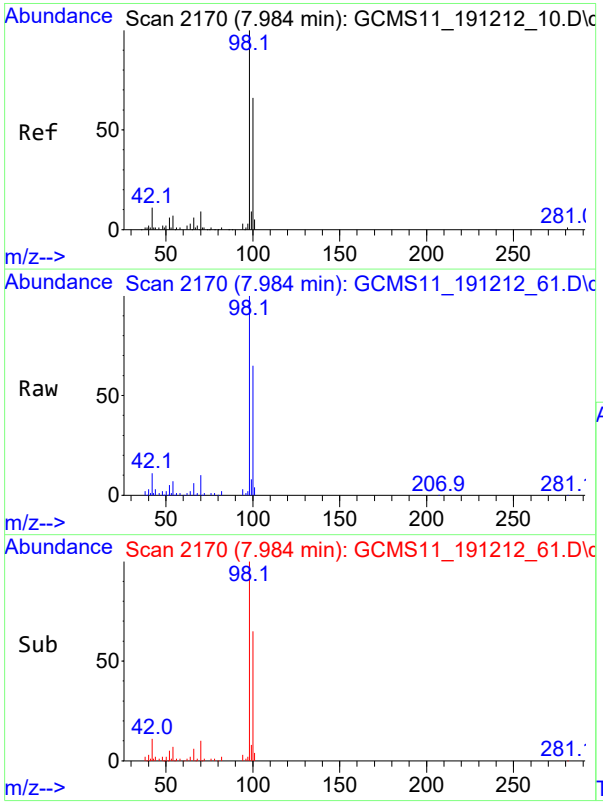


#35
cis-1,3-Dichloropropene
Concen: 10.28 ng
RT: 7.723 min Scan# 2089
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

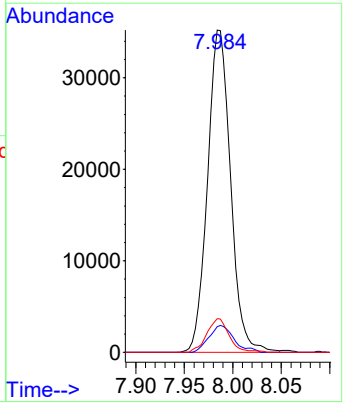


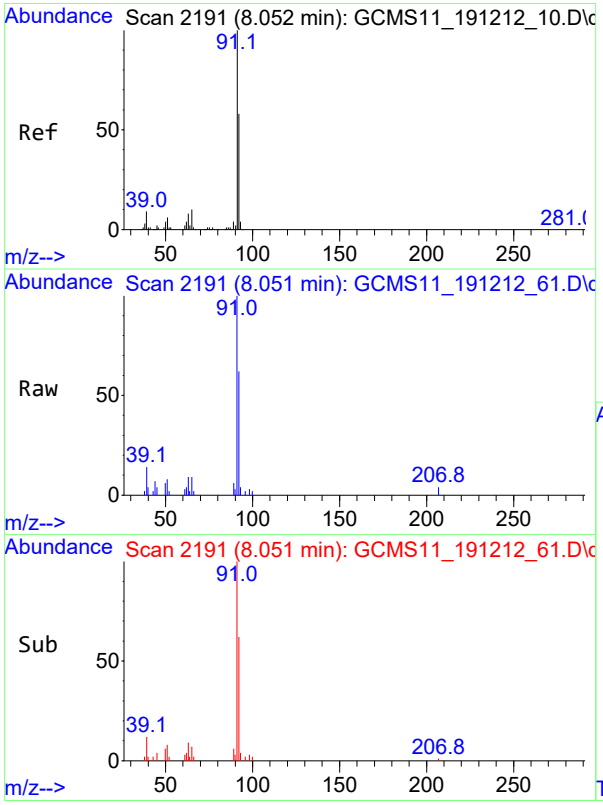


#37
TOLUENE-D8
Concen: 52.89 ng
RT: 7.984 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

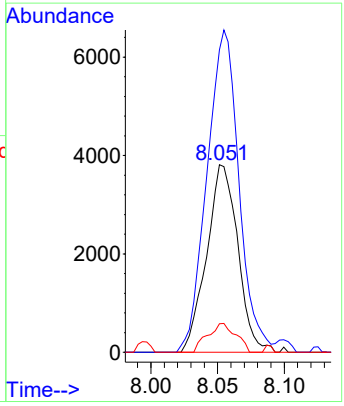


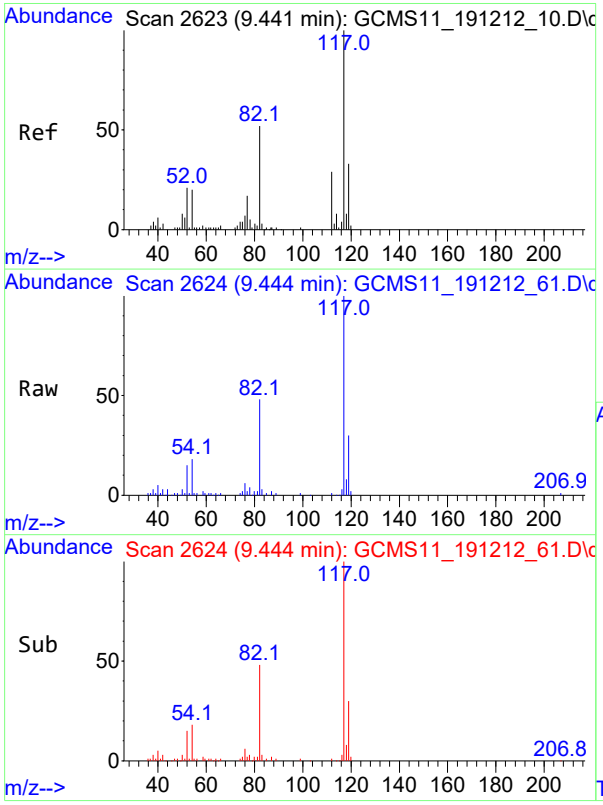


#38
Toluene
Concen: 8.17 ng
RT: 8.051 min Scan# 2191
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

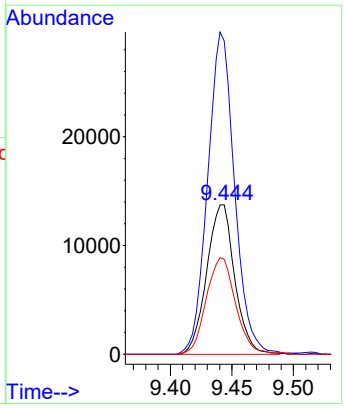


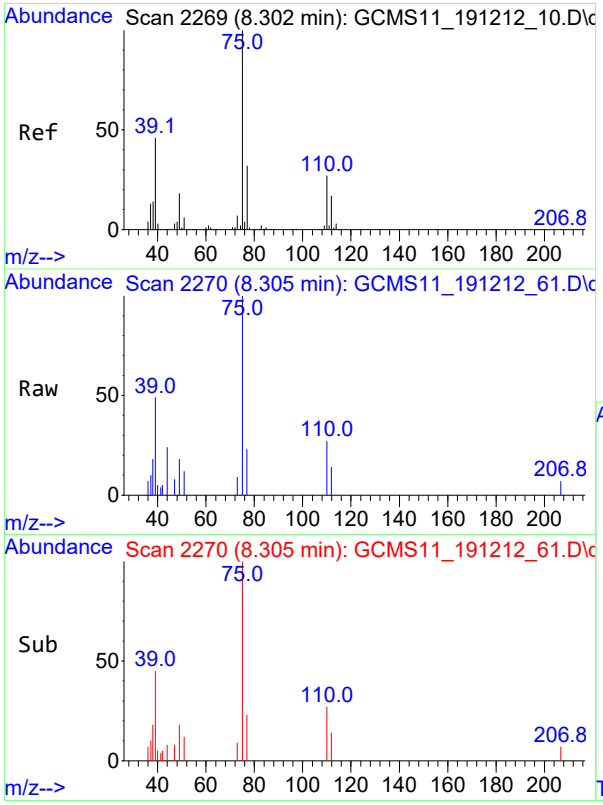


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.444 min Scan# 2624
Delta R.T. 0.004 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

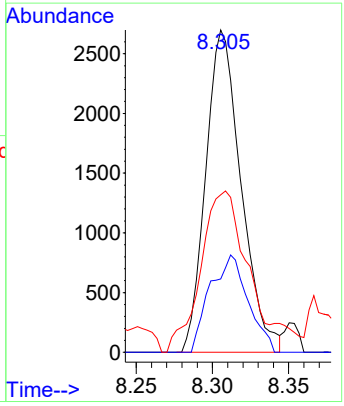


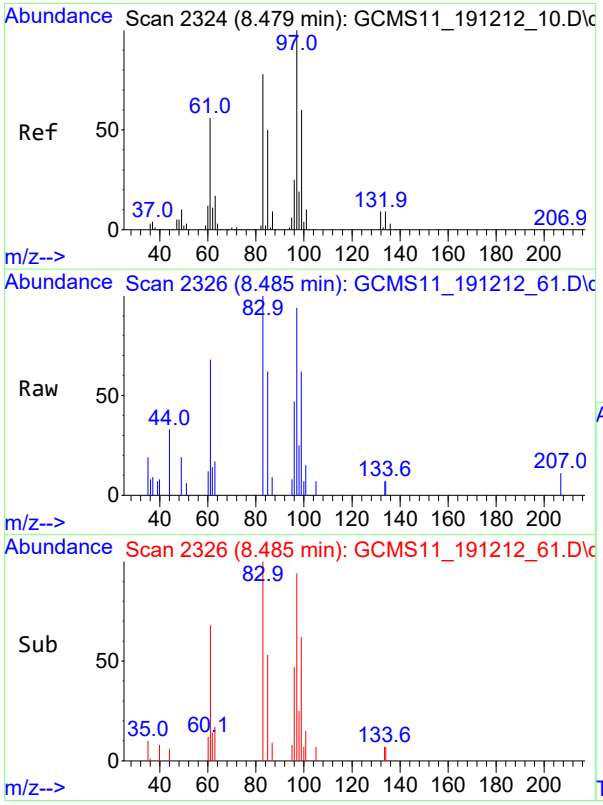


#40
trans-1,3-Dichloropropene
Concen: 9.15 ng
RT: 8.305 min Scan# 2270
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

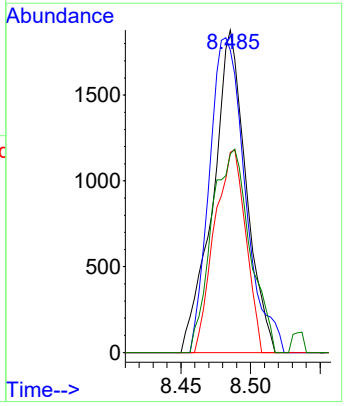


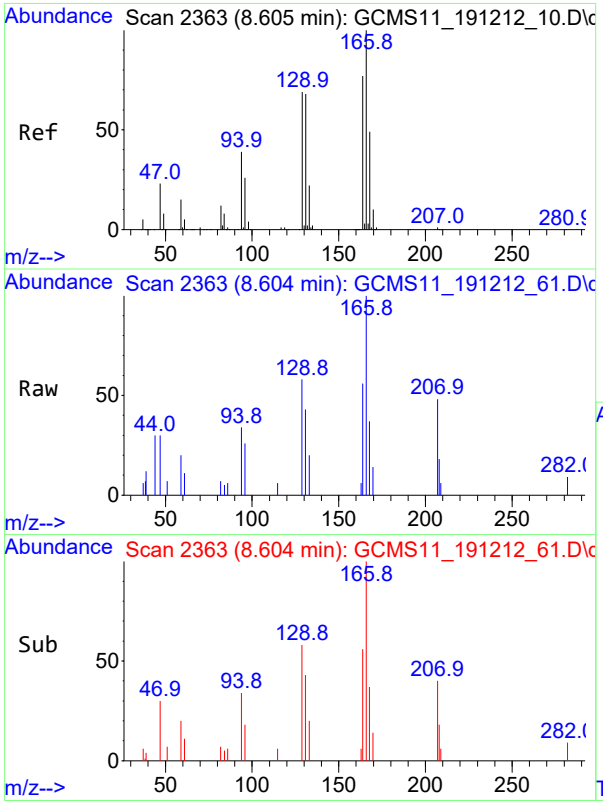


#41
1,1,2-Trichloroethane
Concen: 11.36 ng
RT: 8.485 min Scan# 2326
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

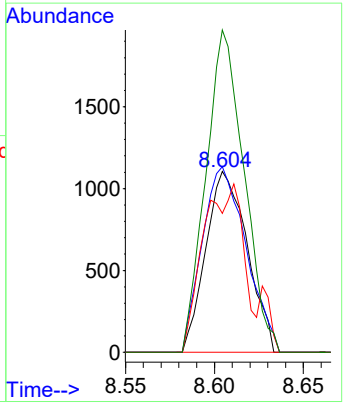


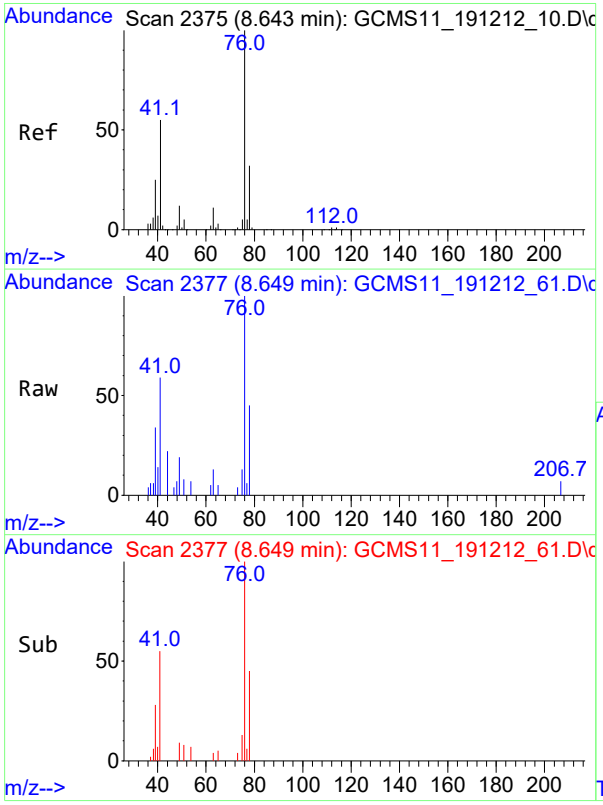


#42
Tetrachloroethene
Concen: 6.51 ng
RT: 8.604 min Scan# 2363
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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#

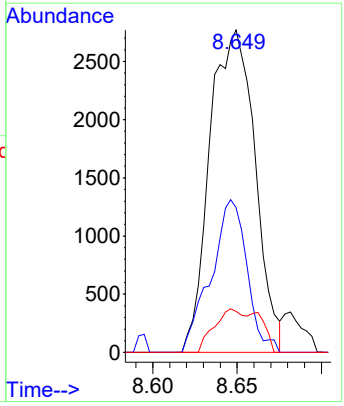


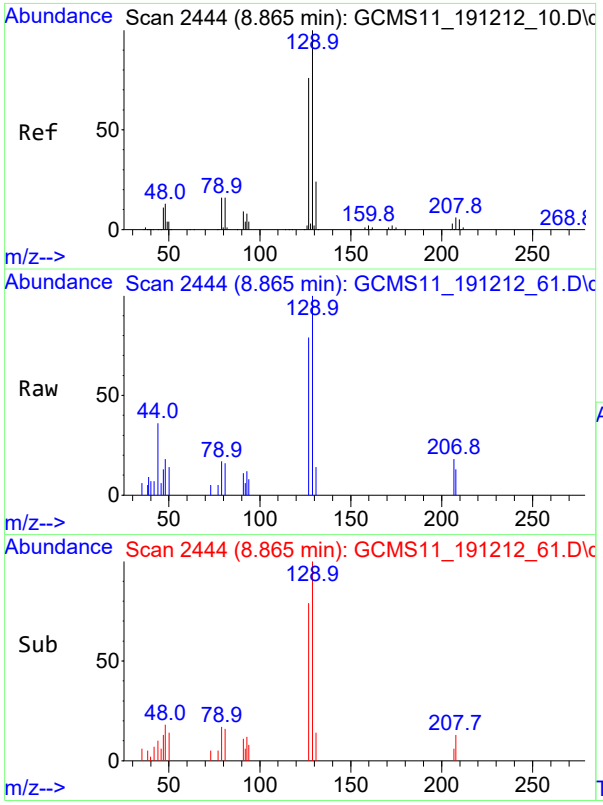


#43
1,3-Dichloropropane
Concen: 9.77 ng
RT: 8.649 min Scan# 2377
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

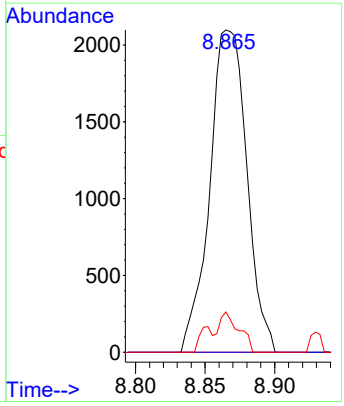


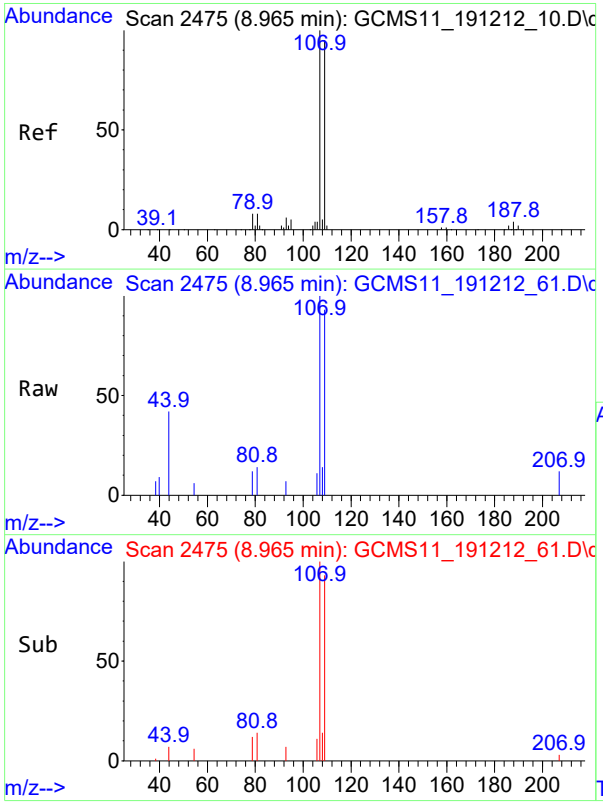


#45
Dibromochloromethane
Concen: 9.58 ng
RT: 8.865 min Scan# 2444
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

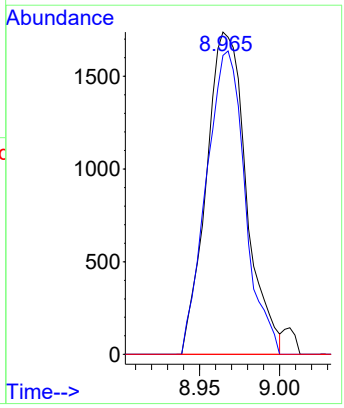


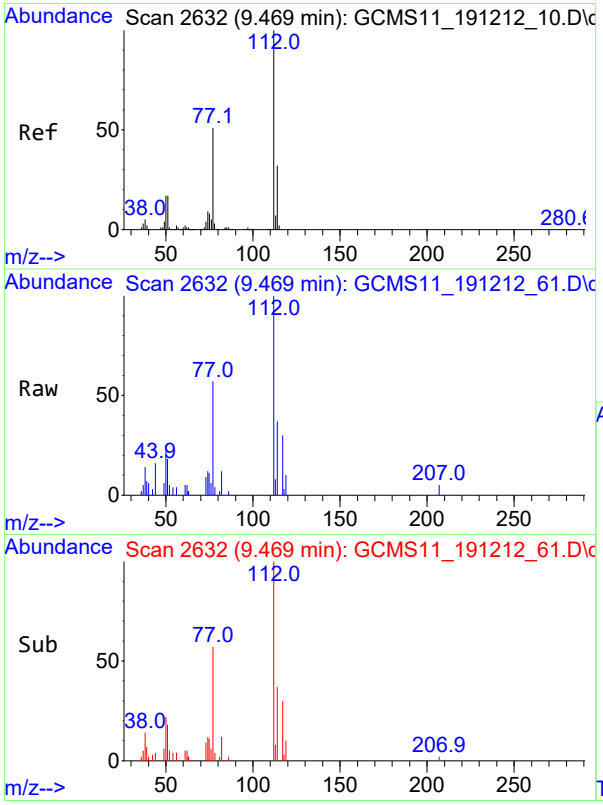


#46
1,2-Dibromoethane (EDB)
Concen: 8.74 ng
RT: 8.965 min Scan# 2475
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

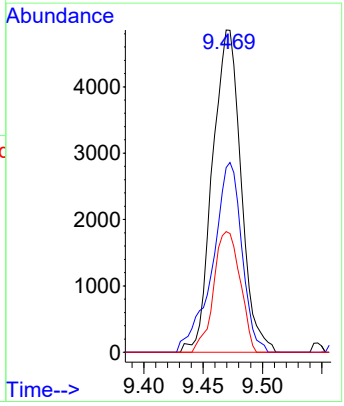


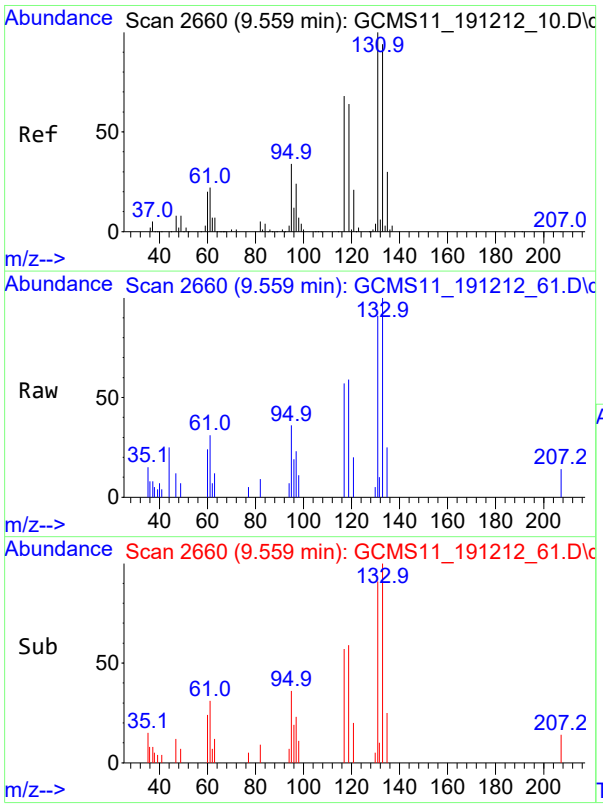


#47
Chlorobenzene
Concen: 8.66 ng
RT: 9.469 min Scan# 2632
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

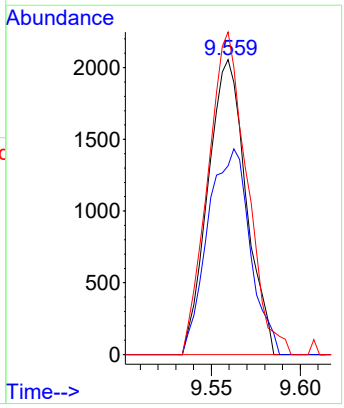


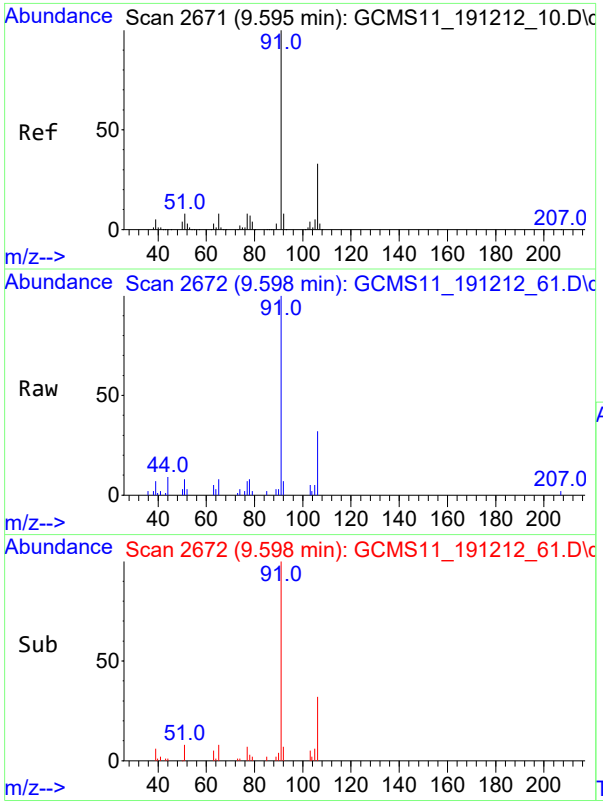


#48
1,1,1,2-Tetrachloroethane
Concen: 8.47 ng
RT: 9.559 min Scan# 2660
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

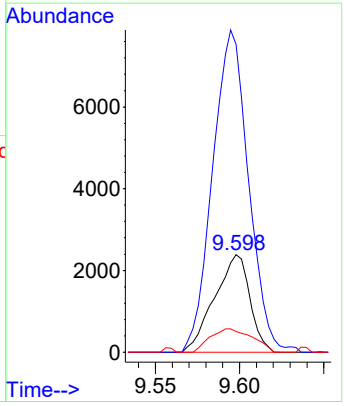


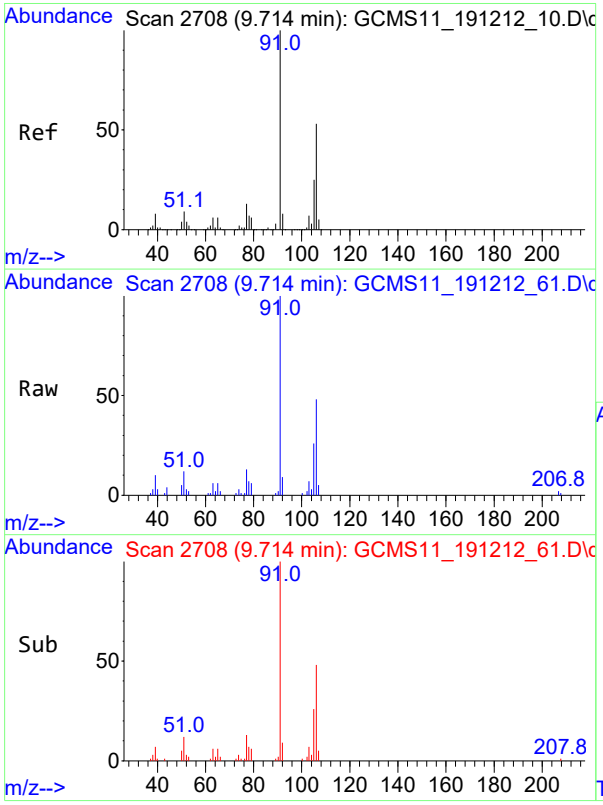


#49
Ethylbenzene
Concen: 7.20 ng
RT: 9.598 min Scan# 2672
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

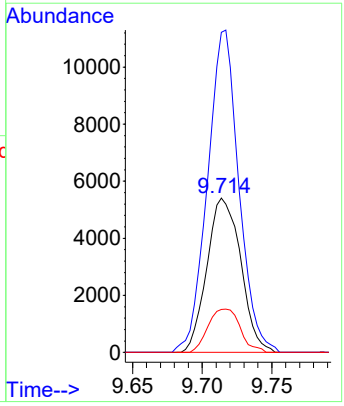


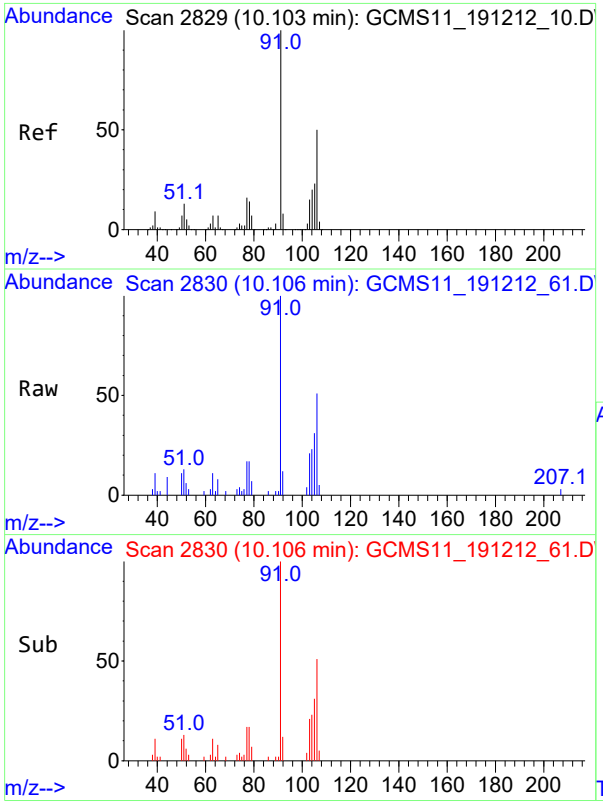


#50
m+p-Xylene
Concen: 14.95 ng
RT: 9.714 min Scan# 2708
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

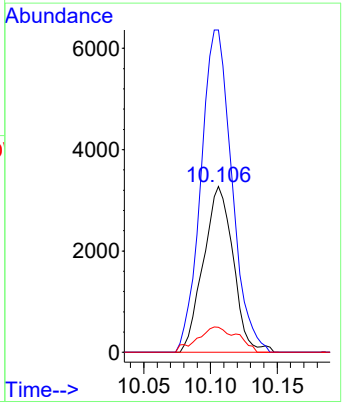


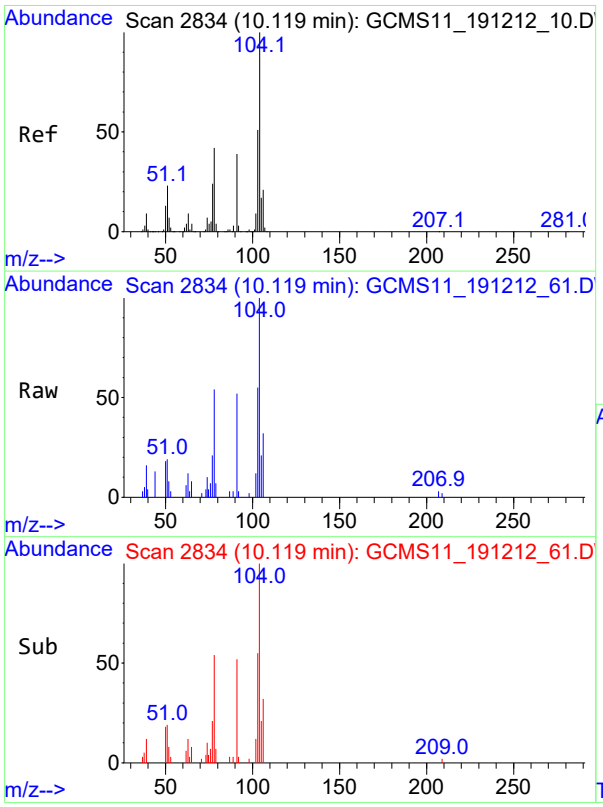


#51
o-Xylene
Concen: 8.61 ng
RT: 10.106 min Scan# 2830
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

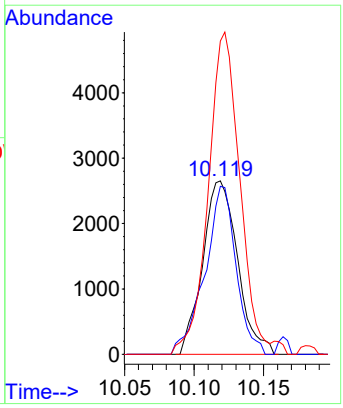


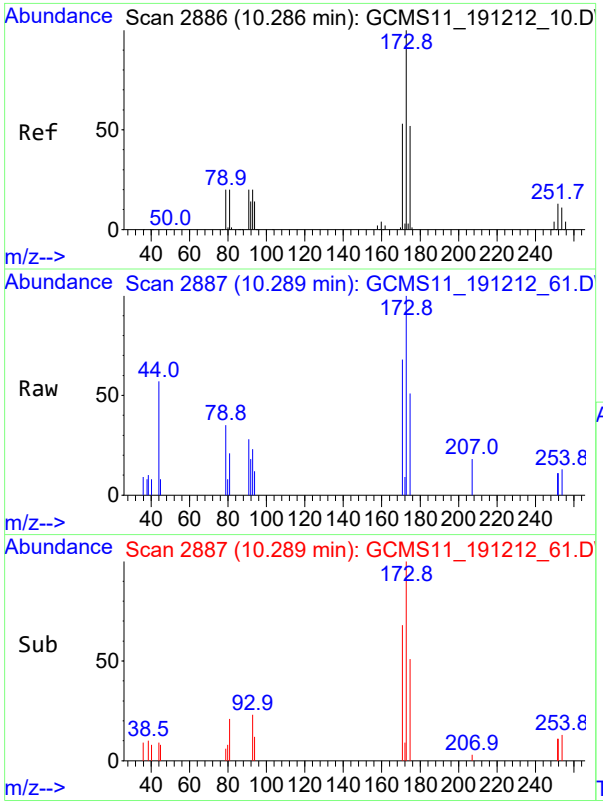


#52
Styrene
Concen: 8.28 ng
RT: 10.119 min Scan# 2834
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

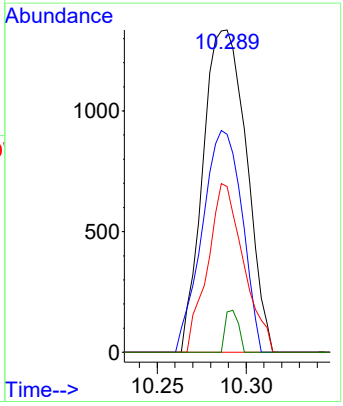


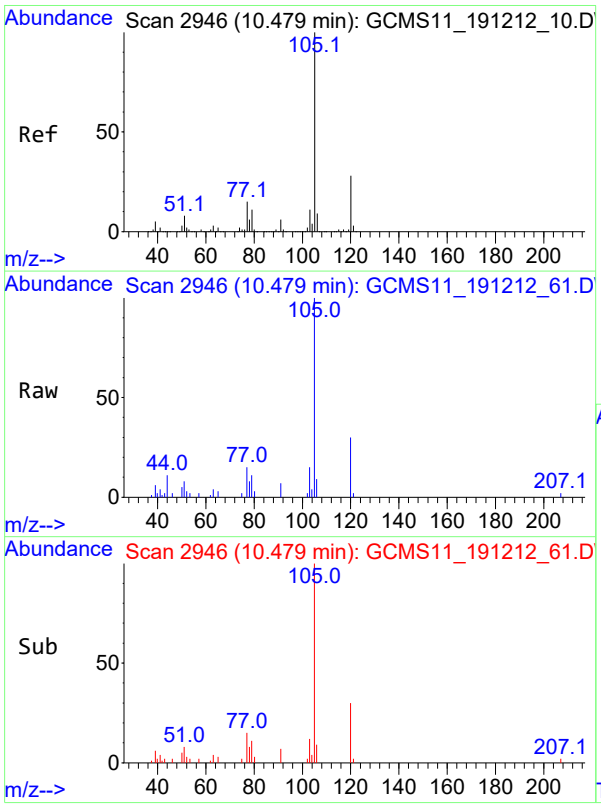


#53
Bromoform
Concen: 7.73 ng
RT: 10.289 min Scan# 2887
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

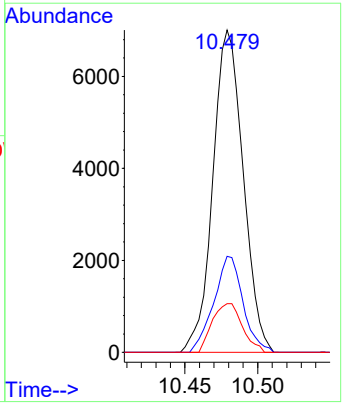


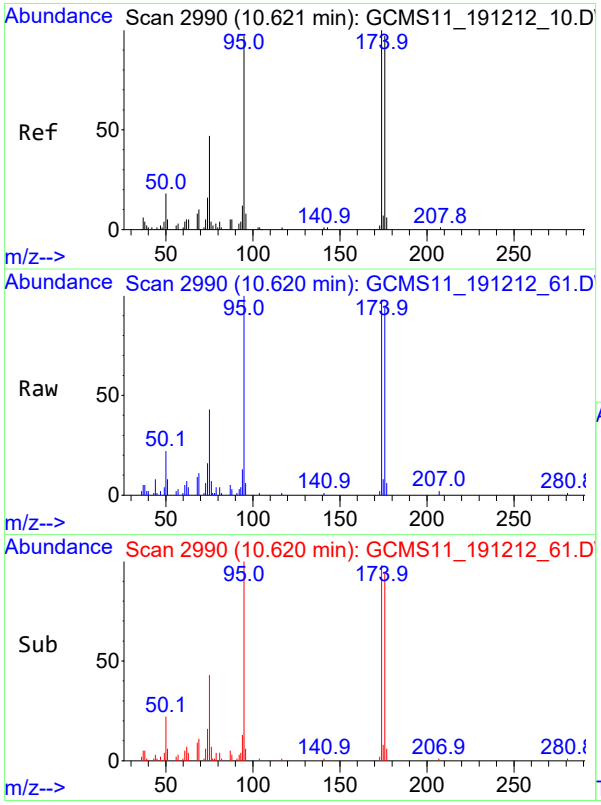


#54
Isopropylbenzene
Concen: 6.52 ng
RT: 10.479 min Scan# 2946
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

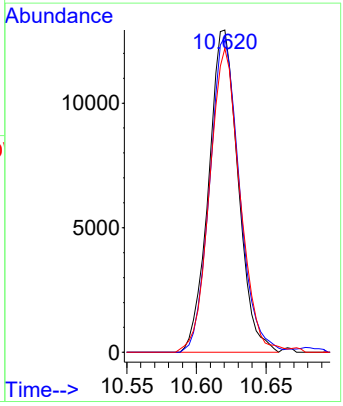


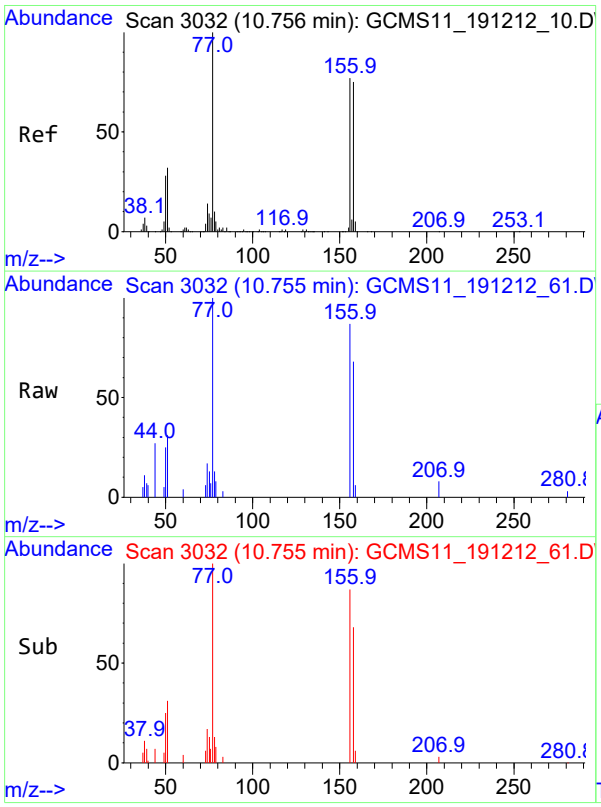


#55
4-BROMOFLUOROBENZENE
Concen: 48.05 ng
RT: 10.620 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

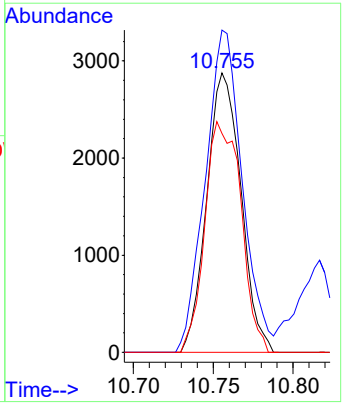


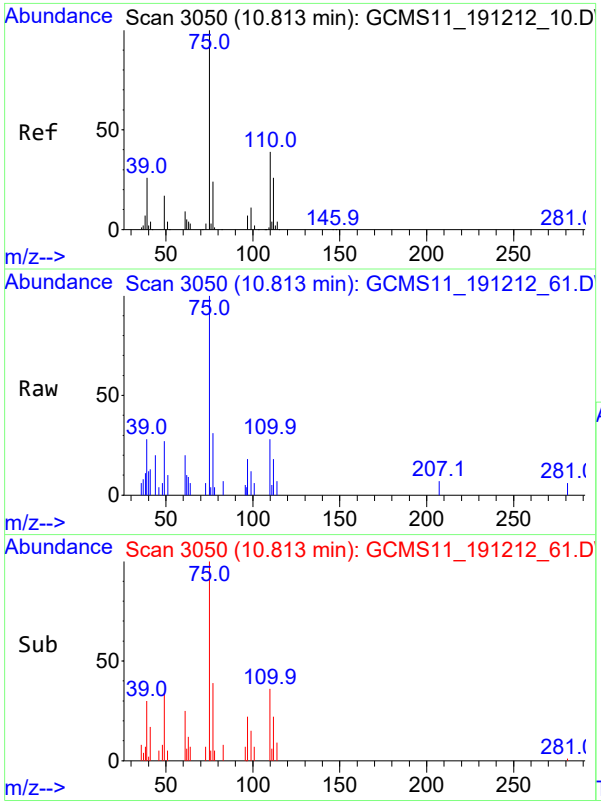


#56
Bromobenzene
Concen: 10.48 ng
RT: 10.755 min Scan# 3032
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

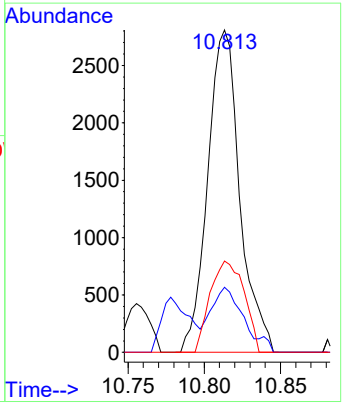


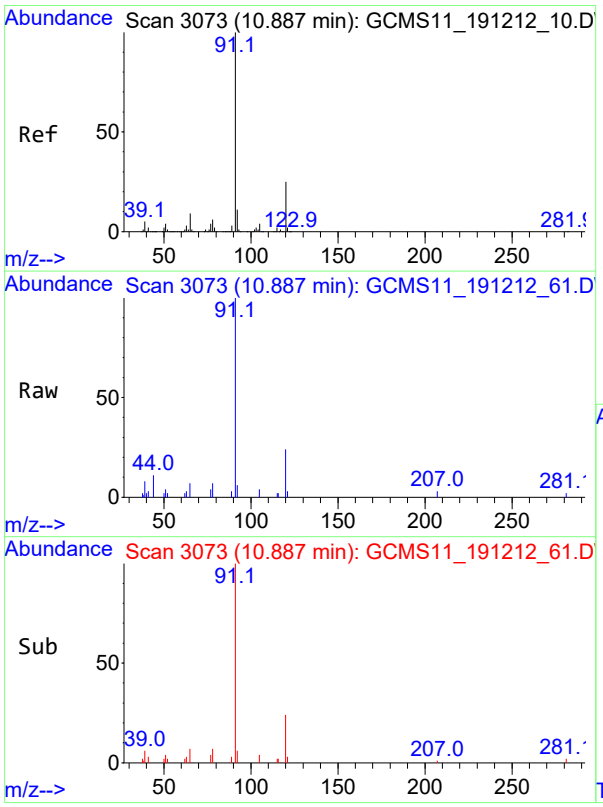


#57
1,2,3-Trichloropropane
Concen: 11.46 ng
RT: 10.813 min Scan# 3050
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

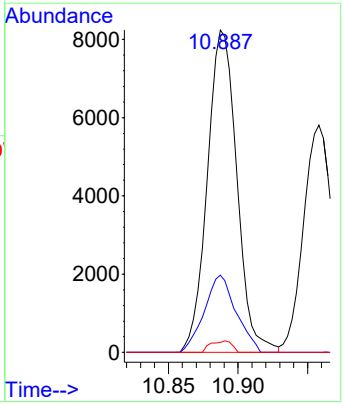


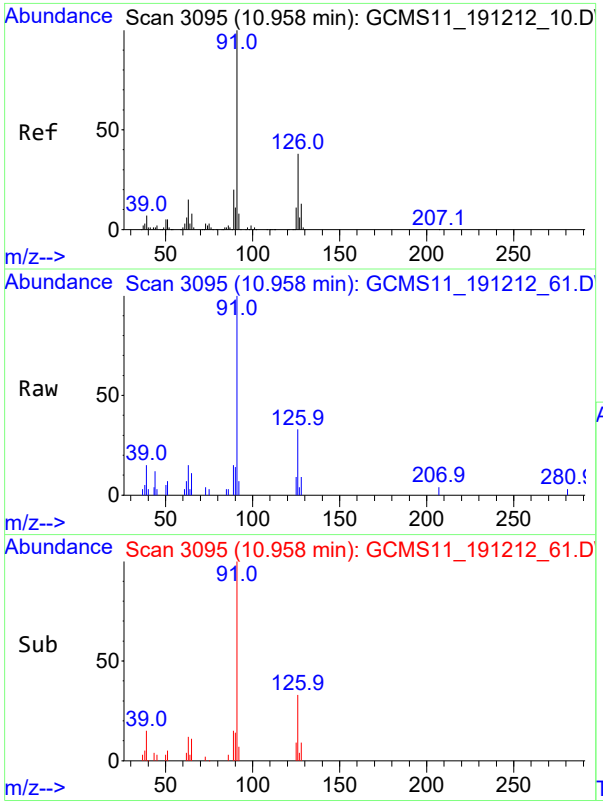


#58
n-Propylbenzene
Concen: 6.94 ng
RT: 10.887 min Scan# 3073
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

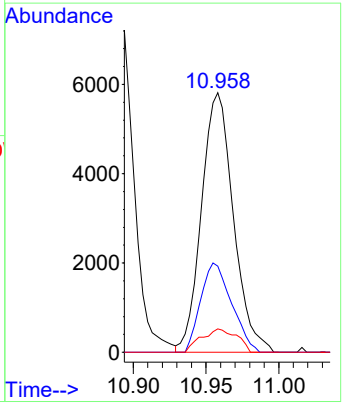


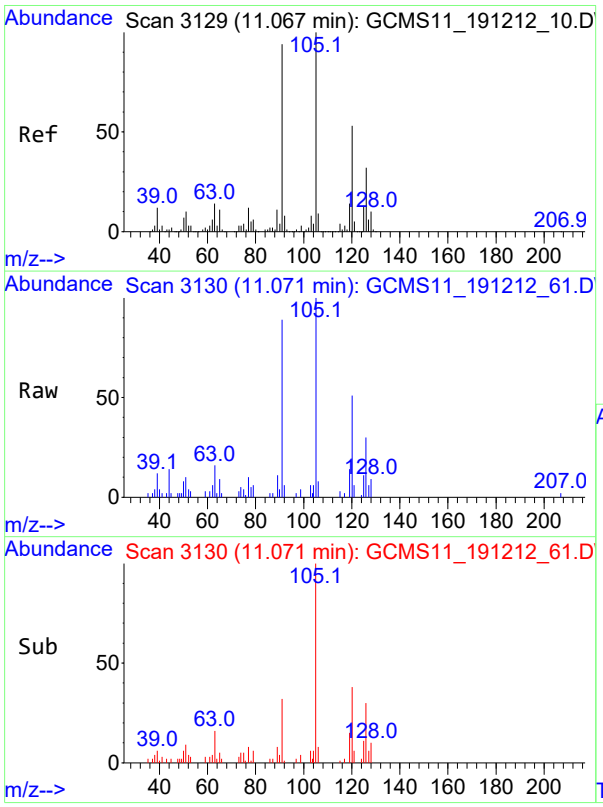


#59
2-Chlorotoluene
Concen: 8.65 ng
RT: 10.958 min Scan# 3095
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

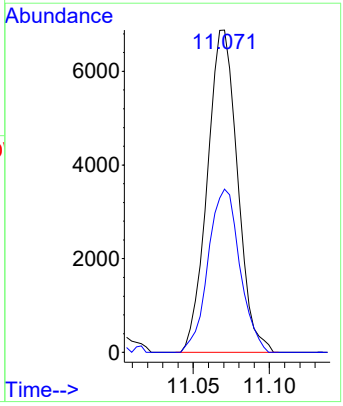


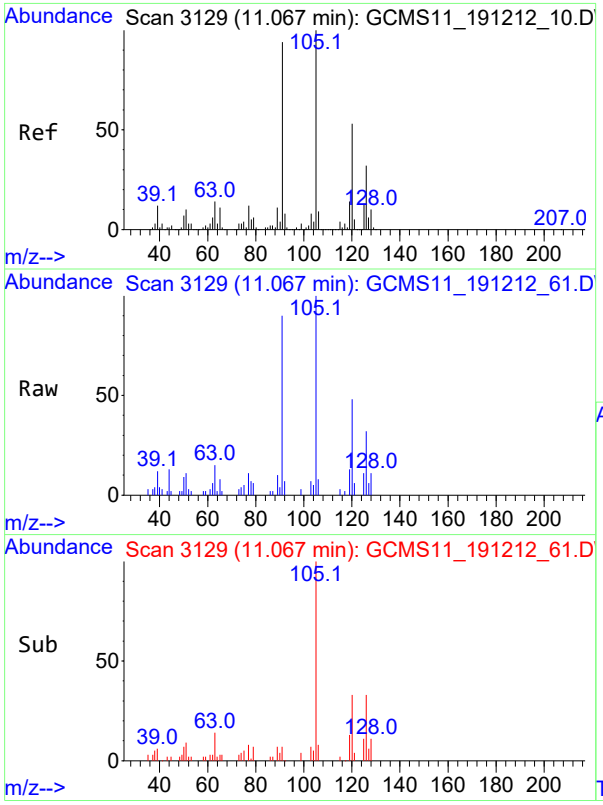


#60
1,3,5-Trimethylbenzene
Concen: 7.49 ng
RT: 11.071 min Scan# 3130
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

Tgt Ion:105 Resp: 9505

Ion	Ratio	Lower	Upper
105	100		
120	53.0	22.4	82.4

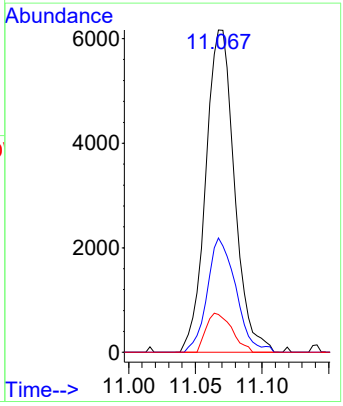


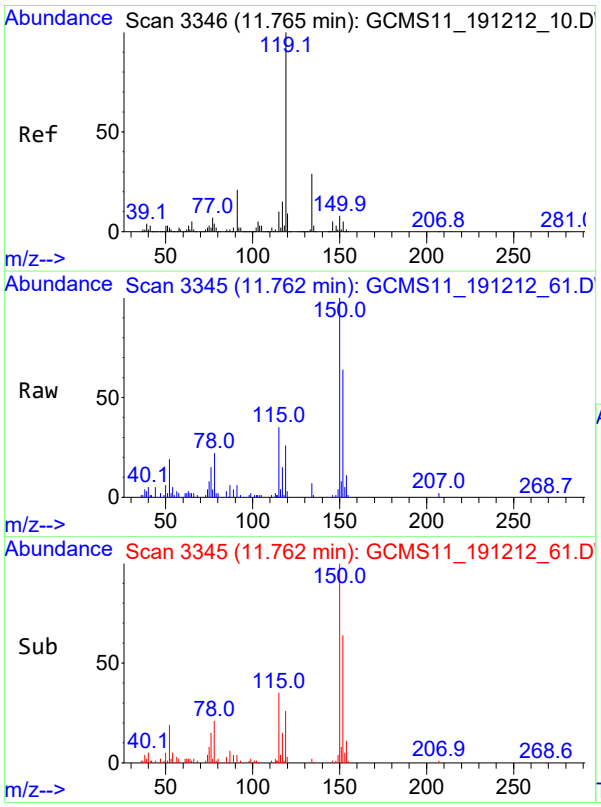


#61
4-Chlorotoluene
Concen: 7.73 ng
RT: 11.067 min Scan# 3129
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

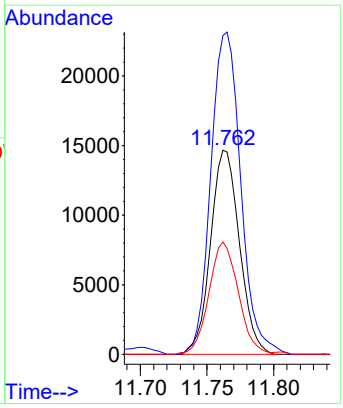


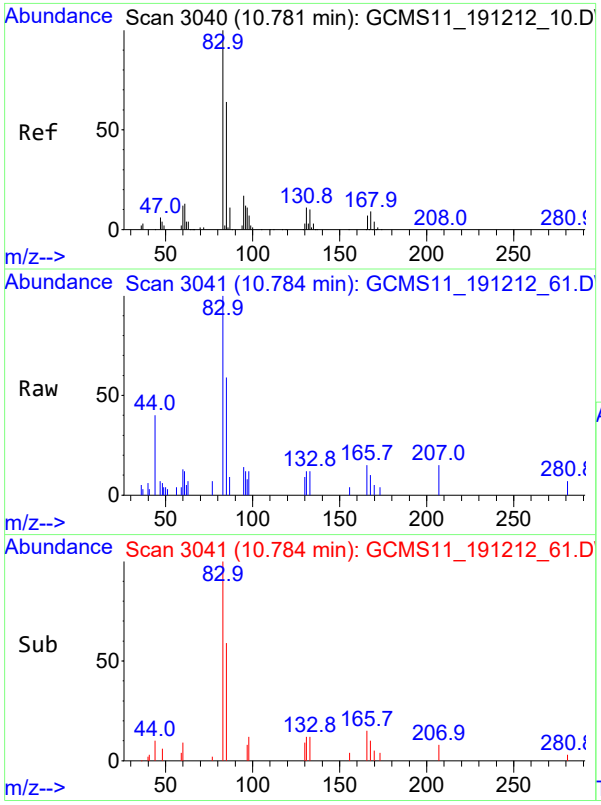


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.762 min Scan# 3345
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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#

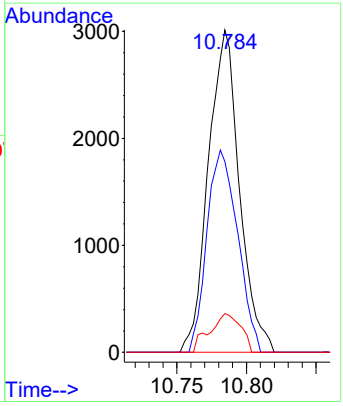


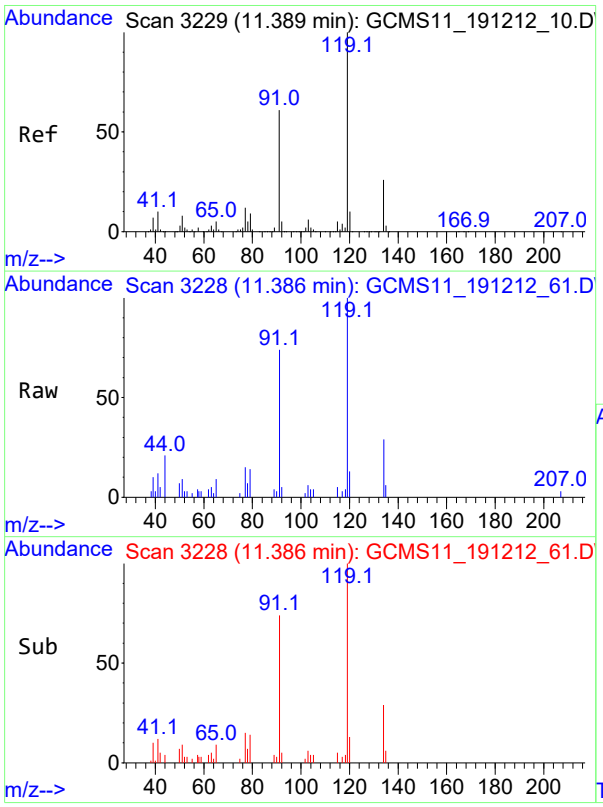


#63
1,1,2,2-Tetrachloroethane
Concen: 11.77 ng
RT: 10.784 min Scan# 3041
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

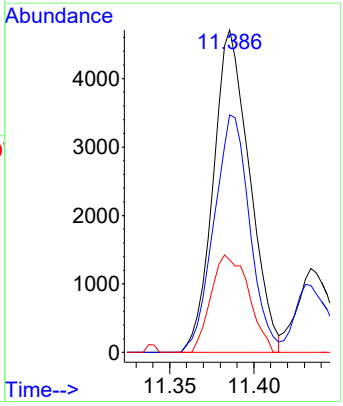


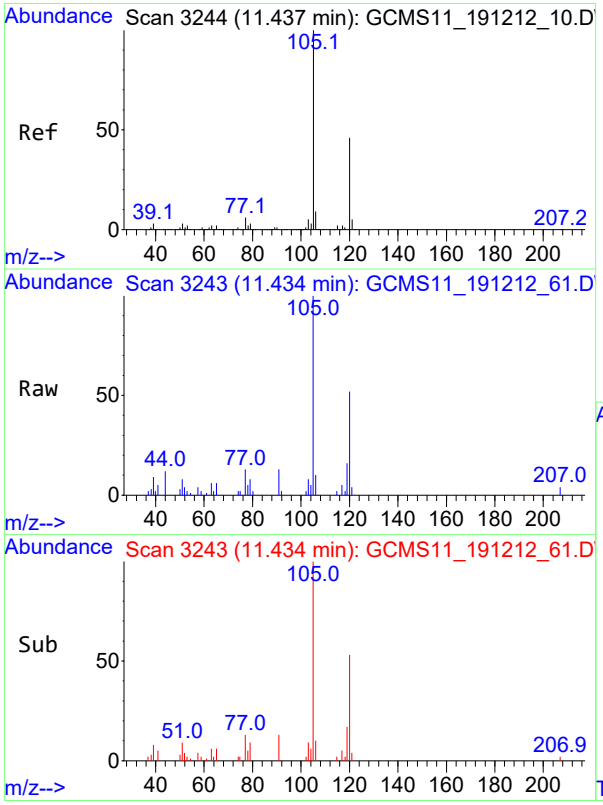


#64
tert-Butylbenzene
Concen: 7.25 ng
RT: 11.386 min Scan# 3228
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

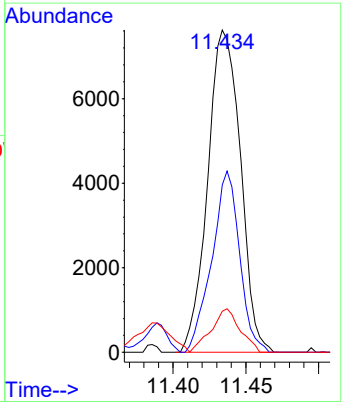


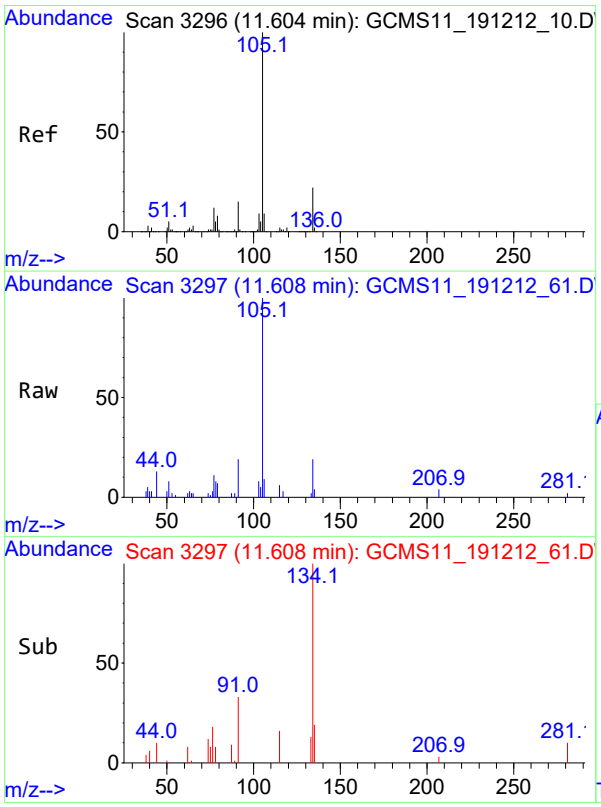


#65
1,2,4-Trimethylbenzene
Concen: 9.99 ng
RT: 11.434 min Scan# 3243
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

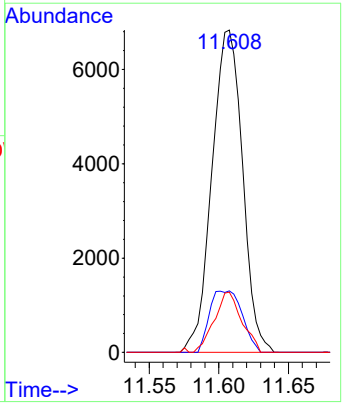


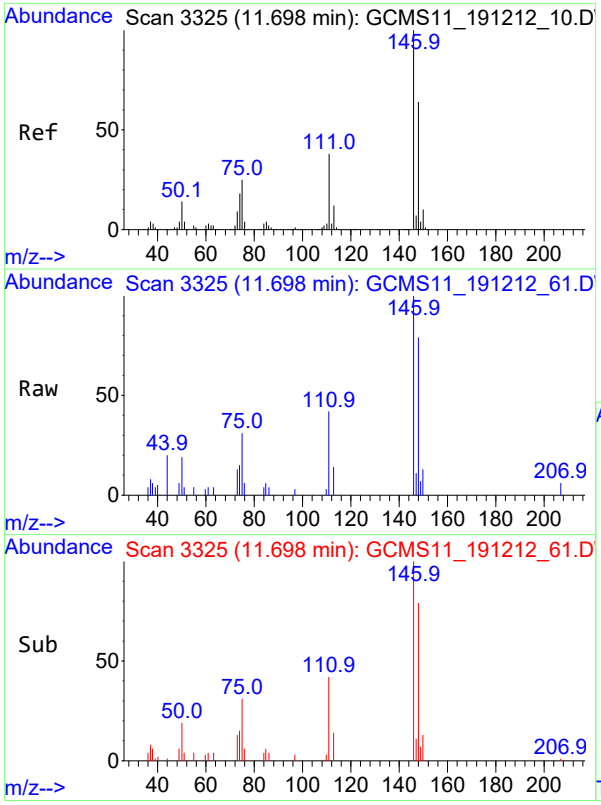


#66
sec-Butylbenzene
Concen: 7.12 ng
RT: 11.608 min Scan# 3297
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

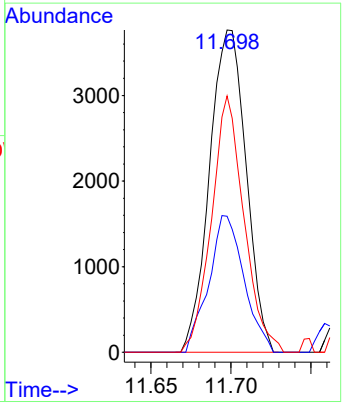


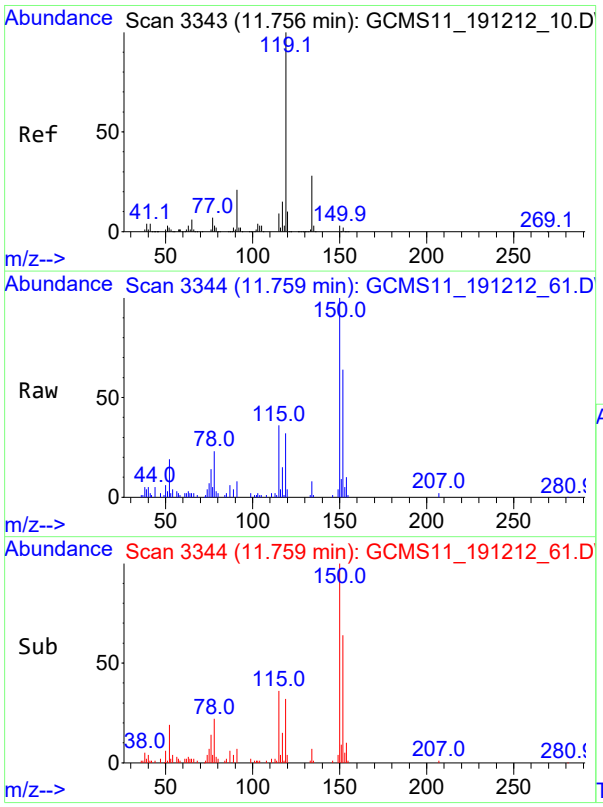


#67
1,3-Dichlorobenzene
Concen: 8.79 ng
RT: 11.698 min Scan# 3325
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

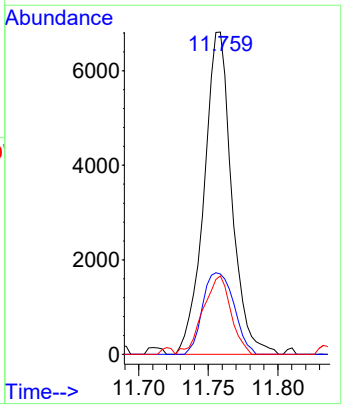


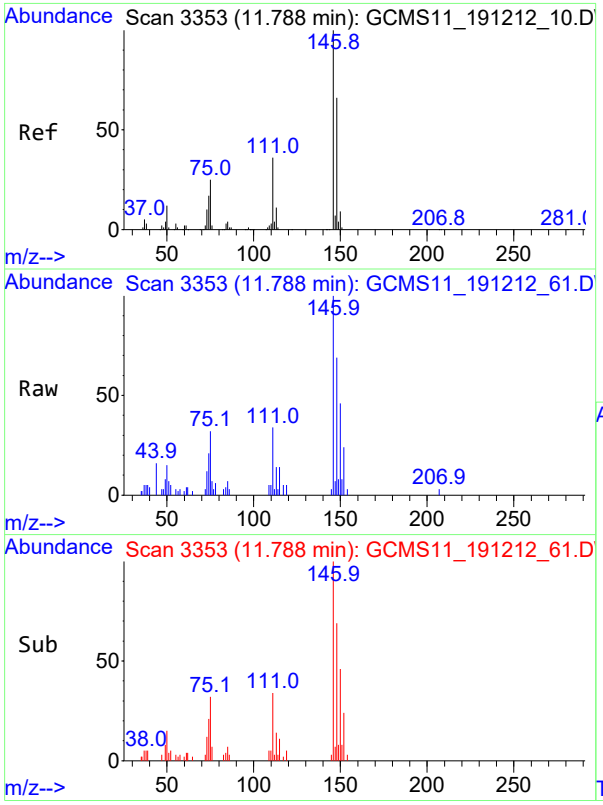


#68
p-Isopropyltoluene
Concen: 7.36 ng
RT: 11.759 min Scan# 3344
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

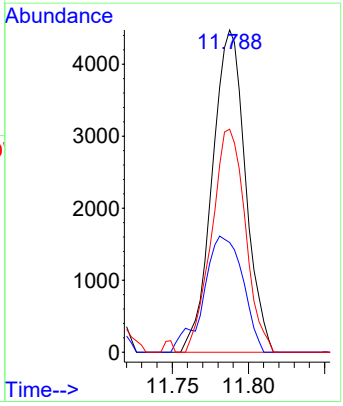


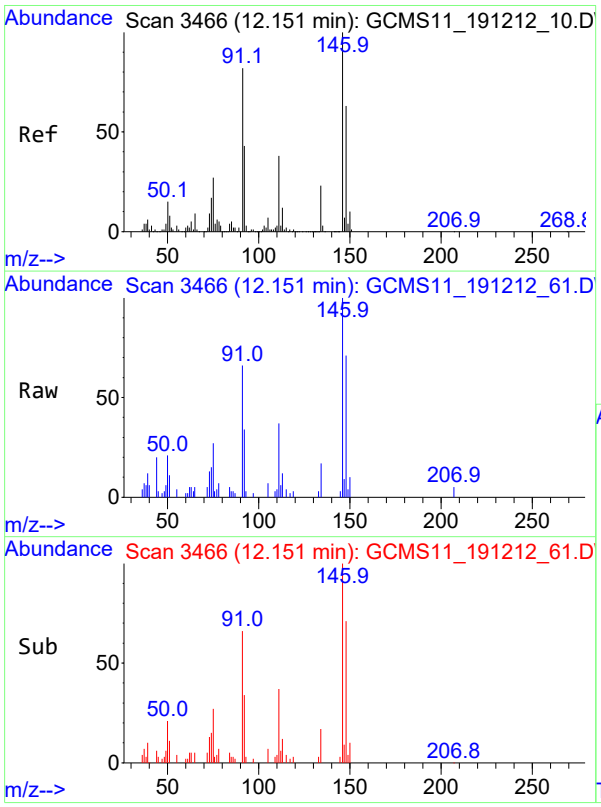


#69
1,4-Dichlorobenzene
Concen: 9.74 ng
RT: 11.788 min Scan# 3353
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

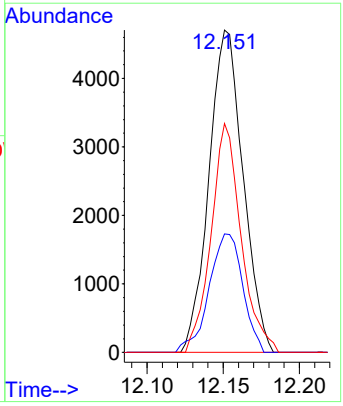


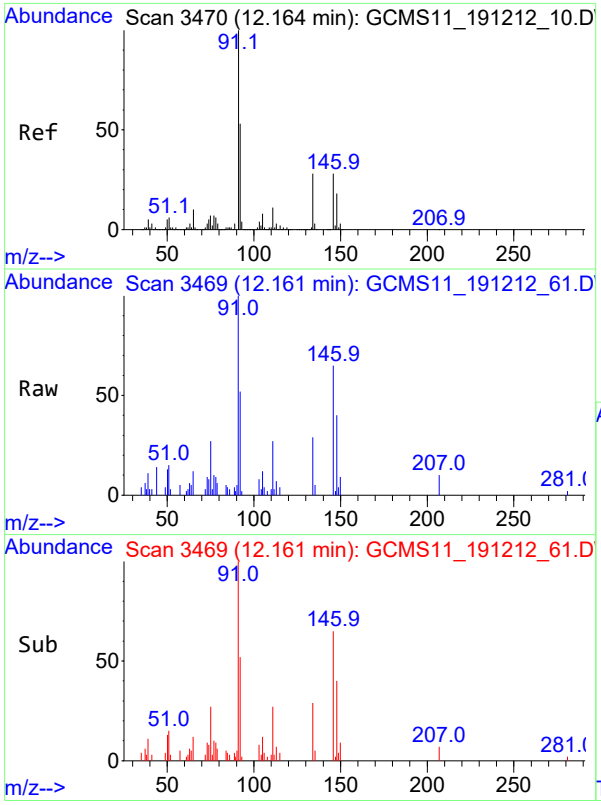


#70
1,2-Dichlorobenzene
Concen: 9.91 ng
RT: 12.151 min Scan# 3466
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

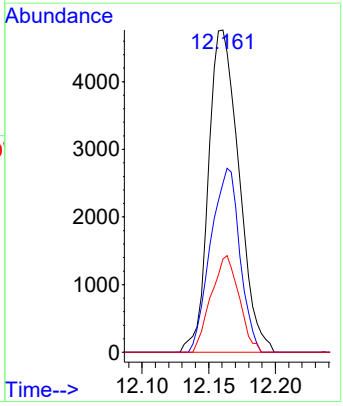


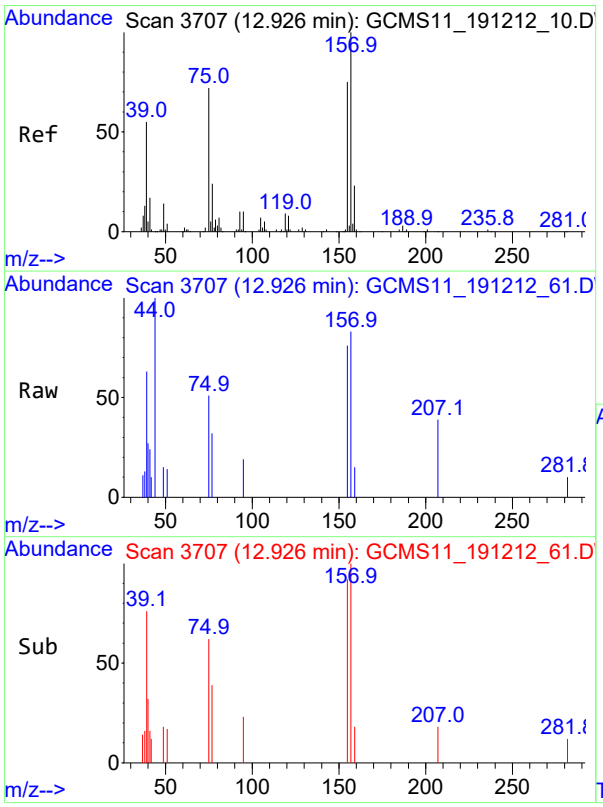


#71
n-Butylbenzene
Concen: 6.63 ng
RT: 12.161 min Scan# 3469
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

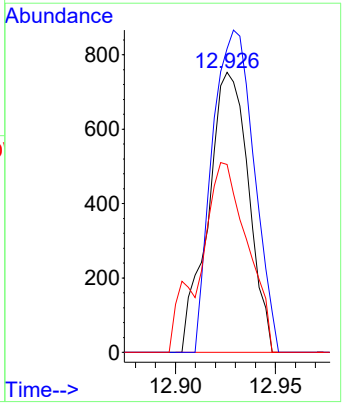


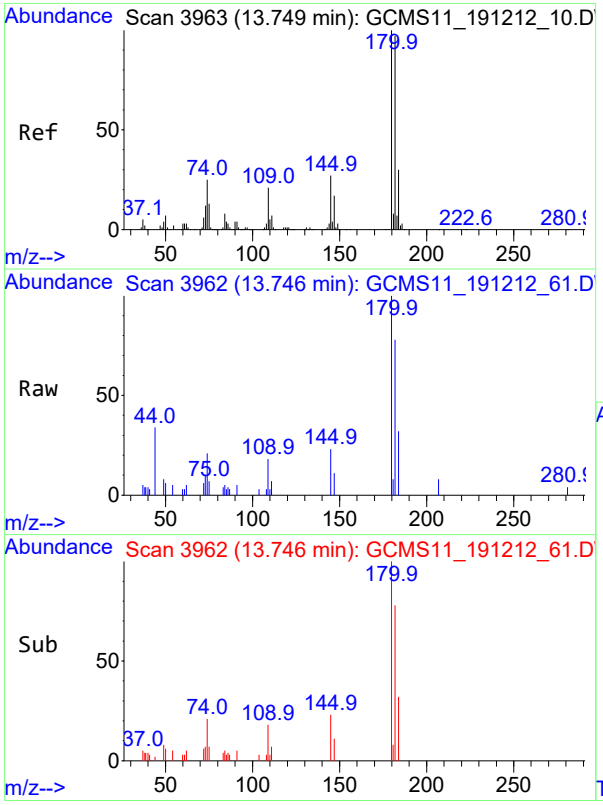


#72
1,2-Dibromo-3-chloropropane
Concen: 13.94 ng
RT: 12.926 min Scan# 3707
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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#

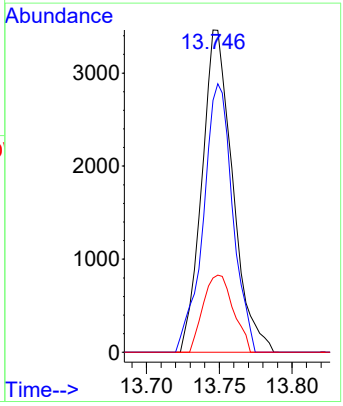


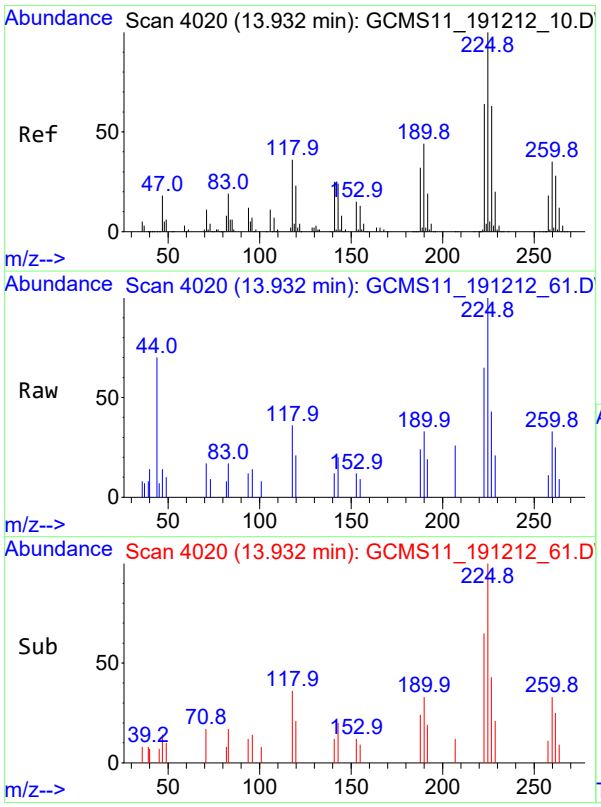


#73
1,2,4-Trichlorobenzene
Concen: 10.22 ng
RT: 13.746 min Scan# 3962
Delta R.T. -0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

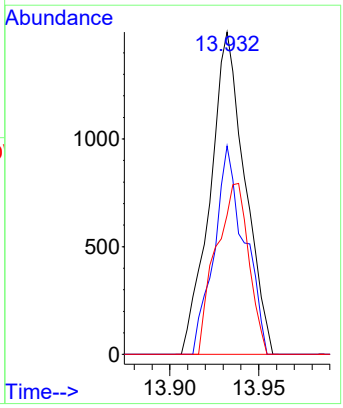


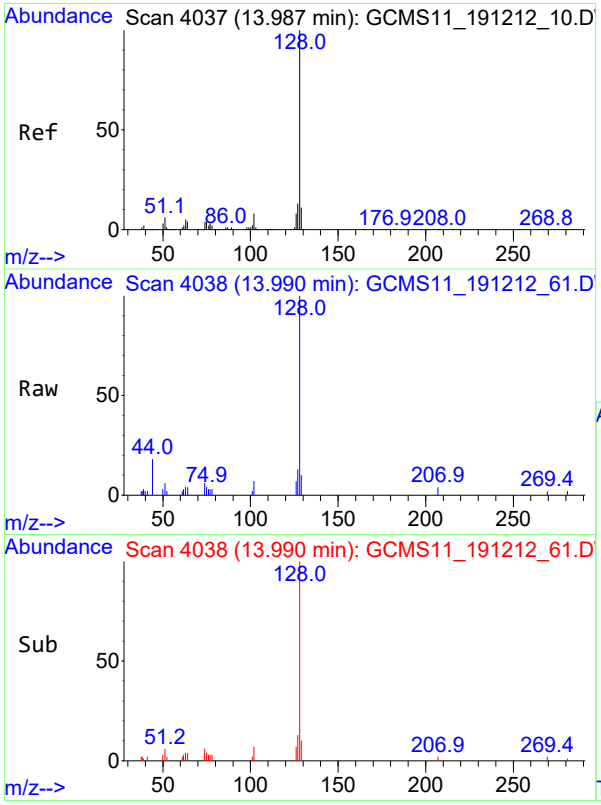


#74
Hexachlorobutadiene
Concen: 8.78 ng
RT: 13.932 min Scan# 4020
Delta R.T. 0.000 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

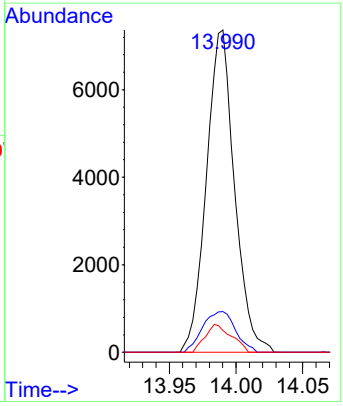


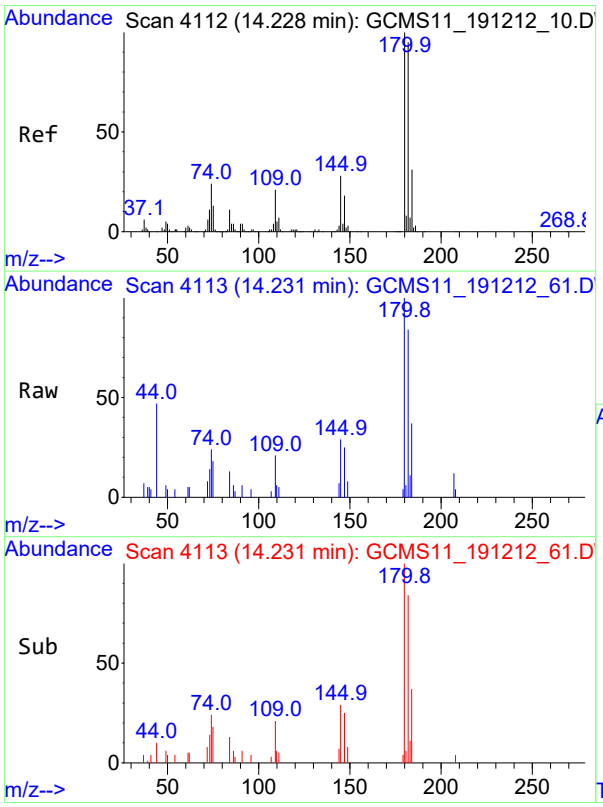


#75
Naphthalene
Concen: 8.46 ng
RT: 13.990 min Scan# 4038
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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

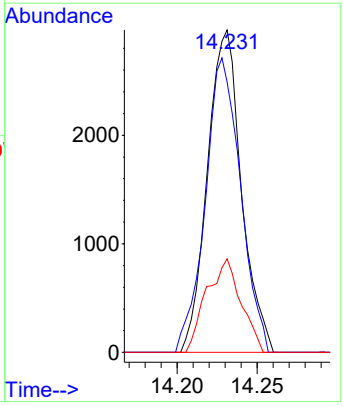




#76
1,2,3-Trichlorobenzene
Concen: 8.34 ng
RT: 14.231 min Scan# 4113
Delta R.T. 0.003 min
Lab File: GCMS11_191212_61.D
Acq: 13 Dec 2019 6:21 pm

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



Date Printed: 12/12/2019

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: B19L012

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
	1912009-01						5	1	1x			
NR	1912009-02						5	1	50	5x		100x dilution screening
	1912009-03						5	1	50	2x		100x dilution screening
NR	1912009-04						5	1	50	1x		100x dilution screening
X	1912009-05						5	1	50	5x		100x dilution screening
NR	1912009-06						5	1	50	1x		100x dilution screening
NR	1912009-07						5	1	50	1X		100x dilution screening
	1912009-08						5	1	50	~~2x~~	10x KO 12.18.19	100x dilution screening
NR	1912009-09						5	1	50	1x		100x dilution screening
NR	1912009-10						5	1	50	1x		100x dilution screening
NR	1912009-11						5	1	50	1x		100x dilution screening
	1912009-12						5	1	1x			50x dilution KO
	B19L012-BLK1	-					5					Method Blank
	B19L012-BLK2	-					5					Storage Blank
	B19L012-BS1	-	19L1201	2.5	19L1812	2.5	5					
	B19L012-BSD1	-	"	"	"	"	5					
	B19L012-CCV1	-	"	"	"	"	5					

Batch Comments: NR= Not reported -KO 12.13.19

No MS/MSD received for this NO# -KO 12.13.19

NOTE: Information not provided on this bench sheet is documented with the original data (Full Package 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: 12/12/2019

Volatiles in WATER Preparation Bench Sheet

Analyst(s): K. O'Malley

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

Batch Number: B19L012
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
~~B19L012-MRL1~~	-					5					

pH paper LIMS ID: 19D1901

Other reagents LIMS ID(s):

MRL QC
batched in
B19L015
-KO
12.17.19

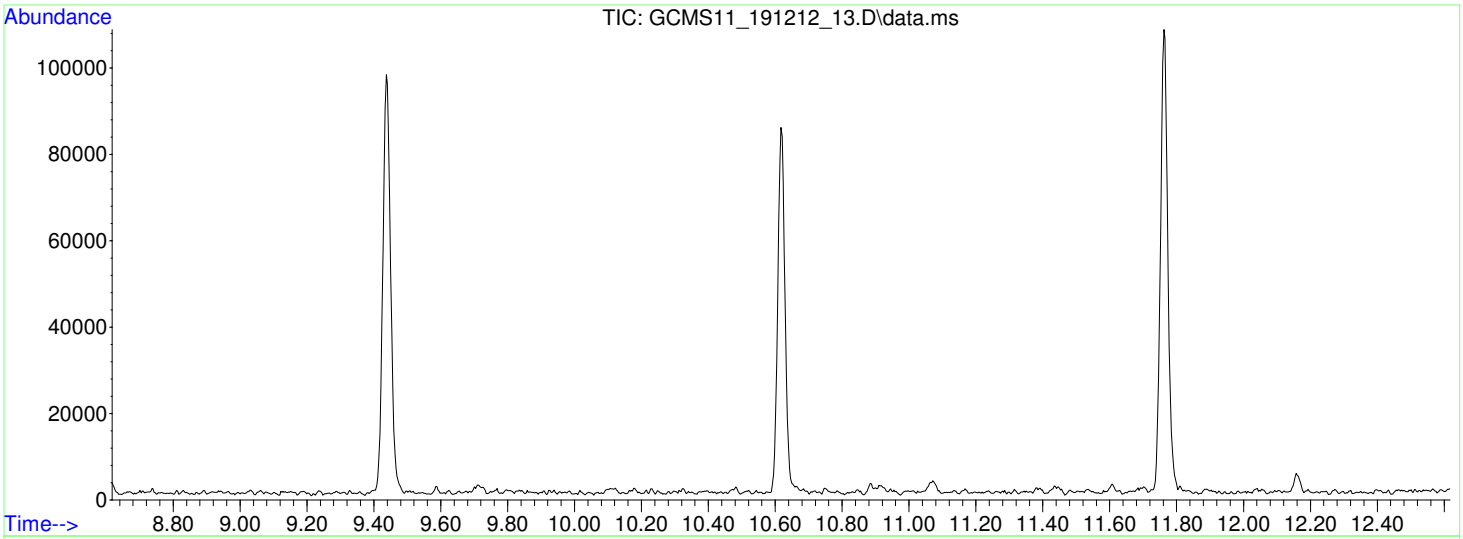
Batch Comments:

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_13.D
Acq On : 12 Dec 2019 6:26 pm
Operator : ko
Sample : IB4
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: Scans 2988, 2989, 2990; Background Corrected with Scan 2978

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	2969	PASS
75	95	30	60	49.4	8009	PASS
95	95	100	100	100.0	16206	PASS
96	95	5	9	5.5	898	PASS
173	174	0.00	2	1.6	234	PASS
174	95	50	100	90.5	14662	PASS
175	174	5	9	8.6	1262	PASS
176	174	95	101	96.7	14181	PASS
177	176	5	9	7.3	1035	PASS

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

Beginning of sequence is associated with the calibration and can be found on page 72
-KO 12.23.19

2019 Dec 12 1810 Sequence Log

Starting sequence Thu Dec 12 18:10:30 2019

Instrument Name: GC MS 11
Sequence File: D:\MKERR\SEQUENCES\GCMS11_191212.2s.s
Comment:
Operator: ko
Data Path: D:\KELSEY\191212\
Method Path: D:\MKERR\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
13)	Blank	99	IB4		
	Datafile		GCMS11_191212_13		
	Method		GCMS11_190612_ACQ		
14)	Sample	9	B19L012-BS1		
	Datafile		GCMS11_191212_14		
	Method		GCMS11_190612_ACQ		
15)	Blank	10	B19L012-BLK1		
	Datafile		GCMS11_191212_15		
	Method		GCMS11_190612_ACQ		
16)	Blank	11	B19L012-BLK2		
	Datafile		GCMS11_191212_16		
	Method		GCMS11_190612_ACQ		
17)	Sample	12	1912009-01		
	Datafile		GCMS11_191212_17		
	Method		GCMS11_190612_ACQ		
18)	Sample	13	1912009-02		
	Datafile		GCMS11_191212_18		
	Method		GCMS11_190612_ACQ		
19)	Sample	14	1912009-03		
	Datafile		GCMS11_191212_19		
	Method		GCMS11_190612_ACQ		
20)	Sample	15	1912009-04		
	Datafile		GCMS11_191212_20		
	Method		GCMS11_190612_ACQ		
21)	Sample	16	1912009-05		
	Datafile		GCMS11_191212_21		
	Method		GCMS11_190612_ACQ		
22)	Sample	17	1912009-06		
	Datafile		GCMS11_191212_22		
	Method		GCMS11_190612_ACQ		
23)	Sample	18	1912009-07		
	Datafile		GCMS11_191212_23		
	Method		GCMS11_190612_ACQ		
24)	Sample	19	1912009-08		
	Datafile		GCMS11_191212_24		
	Method		GCMS11_190612_ACQ		
25)	Sample	20	1912009-09		

```
     Datafile          GCMS11_191212_25
     Method            GCMS11_190612_ACQ
26) Sample        21   1912009-10
     Datafile          GCMS11_191212_26
     Method            GCMS11_190612_ACQ
27) Sample        22   1912009-11
     Datafile          GCMS11_191212_27
     Method            GCMS11_190612_ACQ
28) Sample        23   1912009-12
     Datafile          GCMS11_191212_28
     Method            GCMS11_190612_ACQ
29) Sample        24   B19L012-BSD1
     Datafile          GCMS11_191212_29
     Method            GCMS11_190612_ACQ
30) Sample        25   B19L012-MRL1
     Datafile          GCMS11_191212_30
     Method            GCMS11_190612_ACQ
31) Blank         99   IB5
     Datafile          GCMS11_191212_31
     Method            GCMS11_190612_ACQ
32) Sample        26   B19L015-BLK1
     Datafile          GCMS11_191212_32
     Method            GCMS11_190612_ACQ
33) Sample        27   B19L015-BLK2
     Datafile          GCMS11_191212_33
     Method            GCMS11_190612_ACQ
34) Sample        28   19L12011-01
     Datafile          GCMS11_191212_34
     Method            GCMS11_190612_ACQ
35) Sample        29   19L12011-02
     Datafile          GCMS11_191212_35
     Method            GCMS11_190612_ACQ
36) Sample        30   19L12011-03
     Datafile          GCMS11_191212_36
     Method            GCMS11_190612_ACQ
37) Sample        31   19L12011-04
     Datafile          GCMS11_191212_37
     Method            GCMS11_190612_ACQ
38) Sample        32   19L12011-05
     Datafile          GCMS11_191212_38
     Method            GCMS11_190612_ACQ
39) Sample        33   19L12011-06
     Datafile          GCMS11_191212_39
     Method            GCMS11_190612_ACQ
40) Sample        34   19L12011-07
     Datafile          GCMS11_191212_40
     Method            GCMS11_190612_ACQ
41) Sample        35   19L12011-08
```

```
     Datafile          GCMS11_191212_41
     Method            GCMS11_190612_ACQ
42) Sample        36   19L12011-09
     Datafile          GCMS11_191212_42
     Method            GCMS11_190612_ACQ
43) Sample        37   19L12011-10
     Datafile          GCMS11_191212_43
     Method            GCMS11_190612_ACQ
44) Blank         99   IB6
     Datafile          GCMS11_191212_44
     Method            GCMS11_190612_ACQ
45) Sample        38   B19L015-BS1
     Datafile          GCMS11_191212_45
     Method            GCMS11_190612_ACQ
46) Sample        39   19L12011-11
     Datafile          GCMS11_191212_46
     Method            GCMS11_190612_ACQ
47) Sample        40   19L12011-12
     Datafile          GCMS11_191212_47
     Method            GCMS11_190612_ACQ
48) Sample        41   19L12011-13
     Datafile          GCMS11_191212_48
     Method            GCMS11_190612_ACQ
49) Blank         99   IB7
     Datafile          GCMS11_191212_49
     Method            GCMS11_190612_ACQ
50) Blank         99   IB8
     Datafile          GCMS11_191212_50
     Method            GCMS11_190612_ACQ
51) Sample        42   19L12011-14
     Datafile          GCMS11_191212_51
     Method            GCMS11_190612_ACQ
52) Sample        43   19L12011-15
     Datafile          GCMS11_191212_52
     Method            GCMS11_190612_ACQ
53) Sample        44   19L12011-16
     Datafile          GCMS11_191212_53
     Method            GCMS11_190612_ACQ
54) Sample        45   19L12011-17
     Datafile          GCMS11_191212_54
     Method            GCMS11_190612_ACQ
55) Blank         99   IB9
     Datafile          GCMS11_191212_55
     Method            GCMS11_190612_ACQ
56) Blank         99   IB10
     Datafile          GCMS11_191212_56
     Method            GCMS11_190612_ACQ
57) Sample        46   19L12011-18
```

The sequence continues in association with B19L019 and can be found on page 349 -KO 12.23.19

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_16.D
Acq On : 12 Dec 2019 7:51 pm
Operator : ko
Sample : B19L012-BLK2
Misc : LIMS 19L1101
ALS Vial : 11 Sample Multiplier: 1

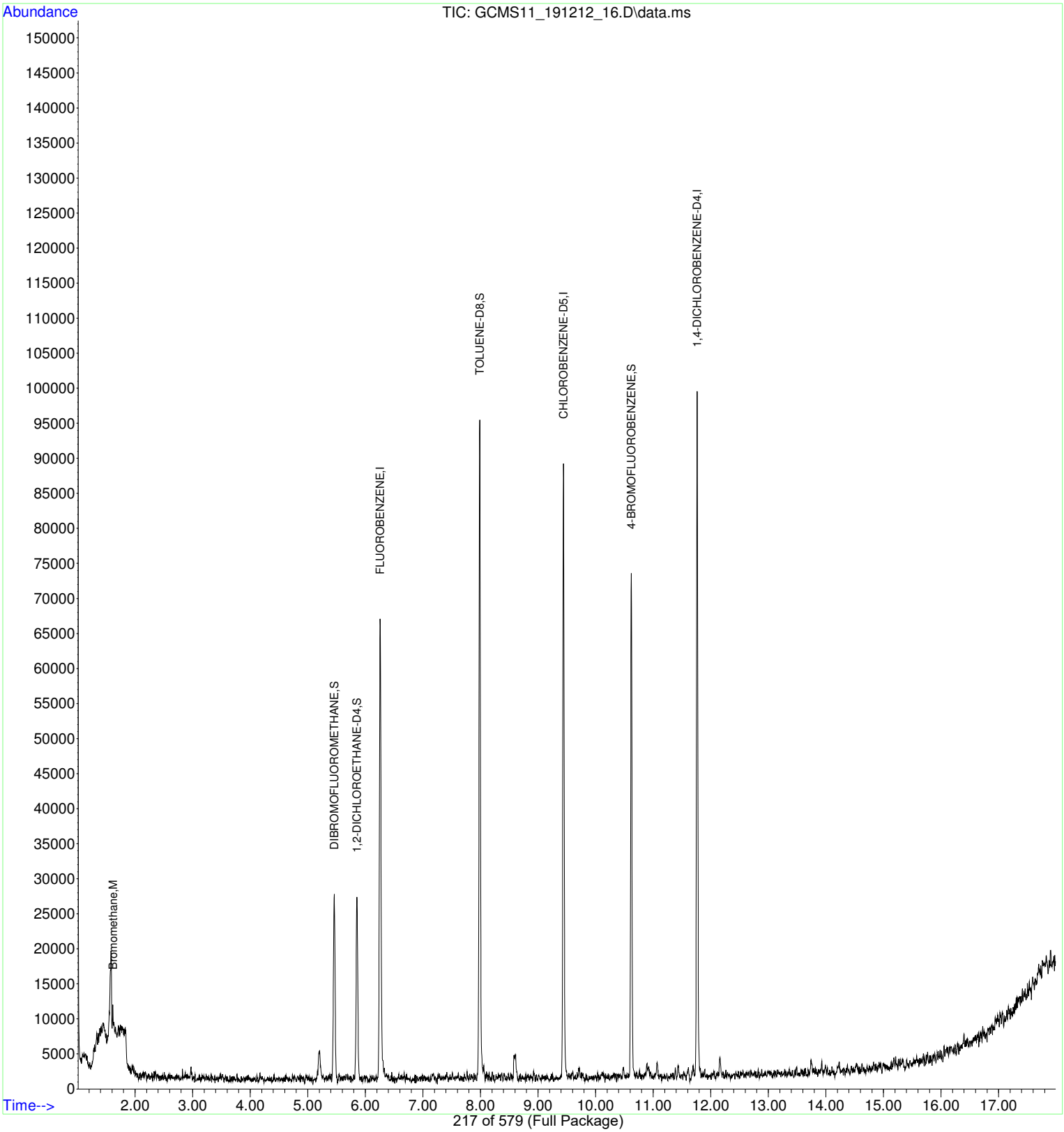
Quant Time: Dec 13 10:38:58 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

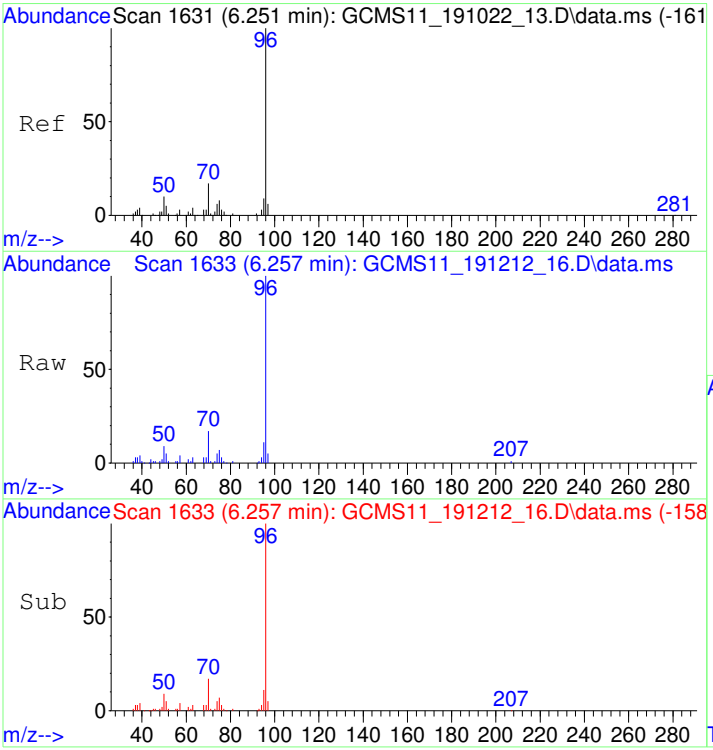
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.26	96	62649	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	24645	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	25206	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.46	113	15935	48.43	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	18563	47.34	ng	0.00
37) TOLUENE-D8	7.99	98	63180	51.28	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	19938	44.62	ng	0.00
Target Compounds						Qvalue
5) Bromomethane	1.62	96	951	3.38	ng	# 63

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_16.D
Acq On : 12 Dec 2019 7:51 pm
Operator : ko
Sample : B19L012-BLK2
Misc : LIMS 19L1101
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 13 10:38:58 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

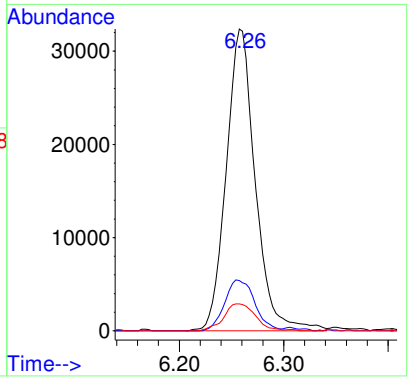


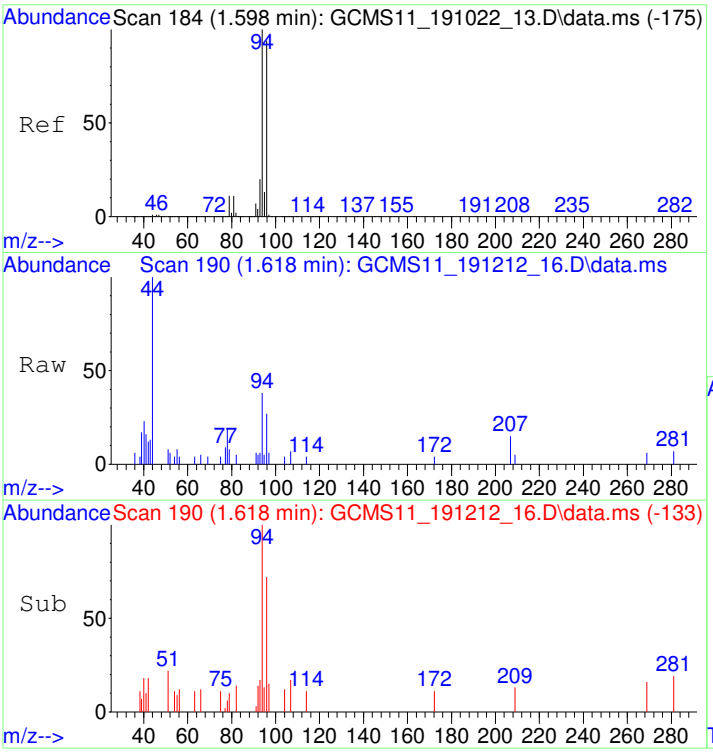


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.26 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191212_16.D
Acq: 12 Dec 2019 7:51 pm

Tgt Ion: 96 Resp: 62649

Ion	Ratio	Lower	Upper
96	100		
70	17.4	0.0	48.3
50	9.7	0.0	39.5

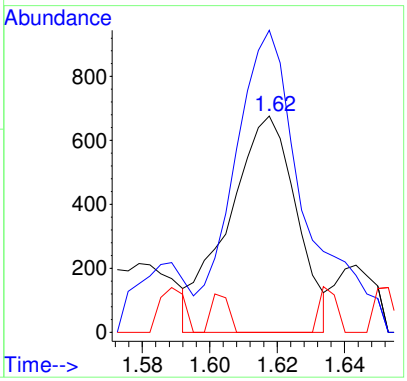


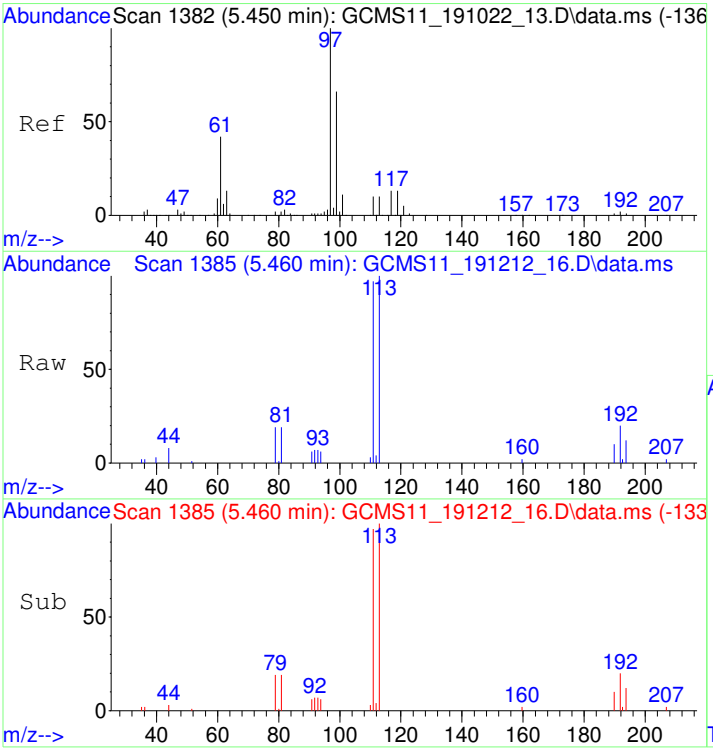


#5
Bromomethane
Concen: 3.38 ng
RT: 1.62 min Scan# 190
Delta R.T. 0.013 min
Lab File: GCMS11_191212_16.D
Acq: 12 Dec 2019 7:51 pm

Tgt Ion: 96 Resp: 951

Ion	Ratio	Lower	Upper
96	100		
94	144.5	74.8	134.8#
81	4.6	0.0	42.0

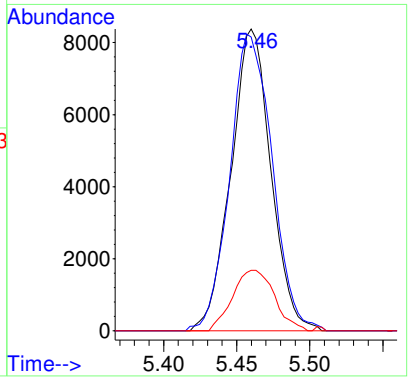


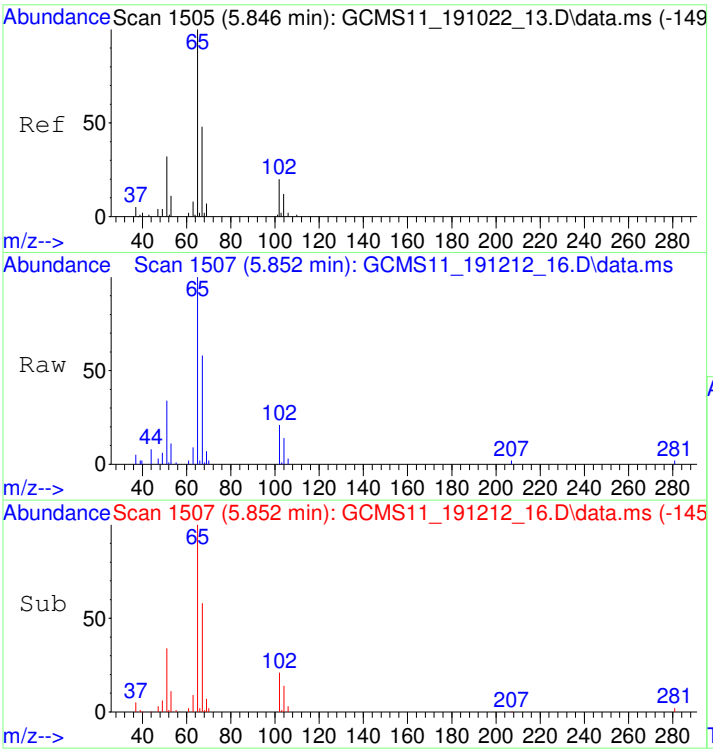


#22
DIBROMOFLUOROMETHANE
Concen: 48.43 ng
RT: 5.46 min Scan# 1385
Delta R.T. 0.000 min
Lab File: GCMS11_191212_16.D
Acq: 12 Dec 2019 7:51 pm

Tgt Ion:113 Resp: 15935

Ion	Ratio	Lower	Upper
113	100		
111	104.1	75.2	135.2
192	21.0	0.0	52.1

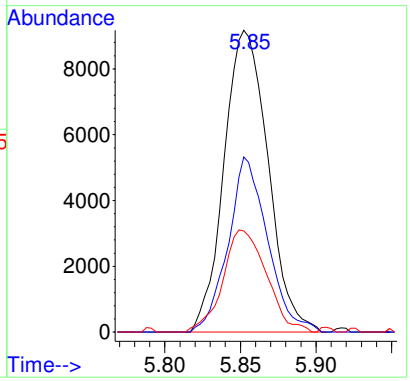


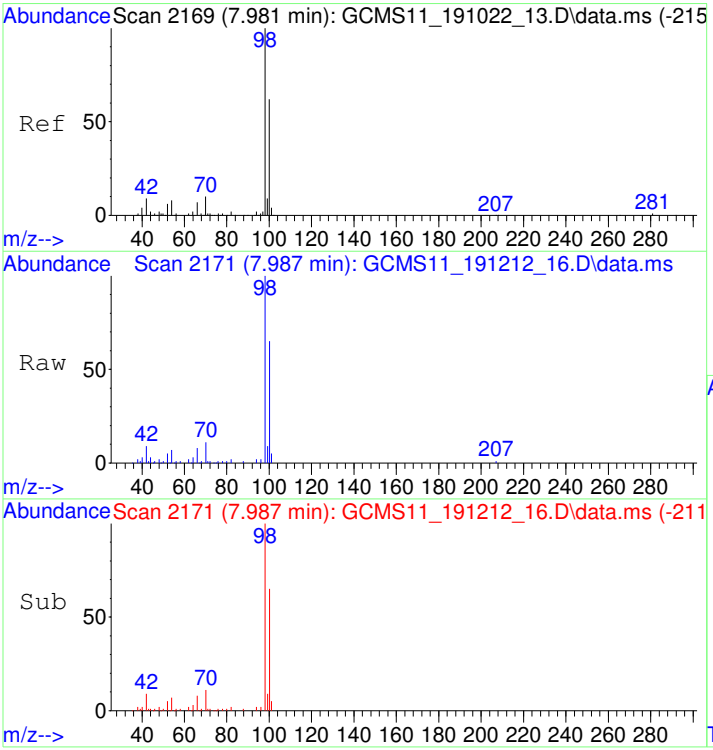


#26
1,2-DICHLOROETHANE-D4
Concen: 47.34 ng
RT: 5.85 min Scan# 1507
Delta R.T. 0.000 min
Lab File: GCMS11_191212_16.D
Acq: 12 Dec 2019 7:51 pm

Tgt Ion: 65 Resp: 18563

Ion	Ratio	Lower	Upper
65	100		
67	52.0	15.4	75.4
51	33.5	2.7	62.7

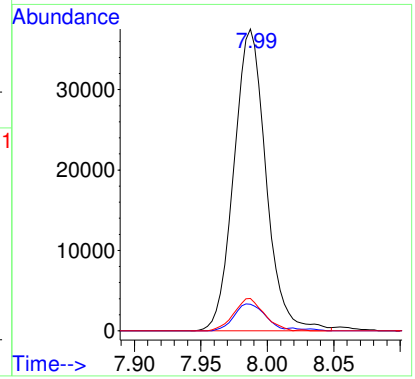


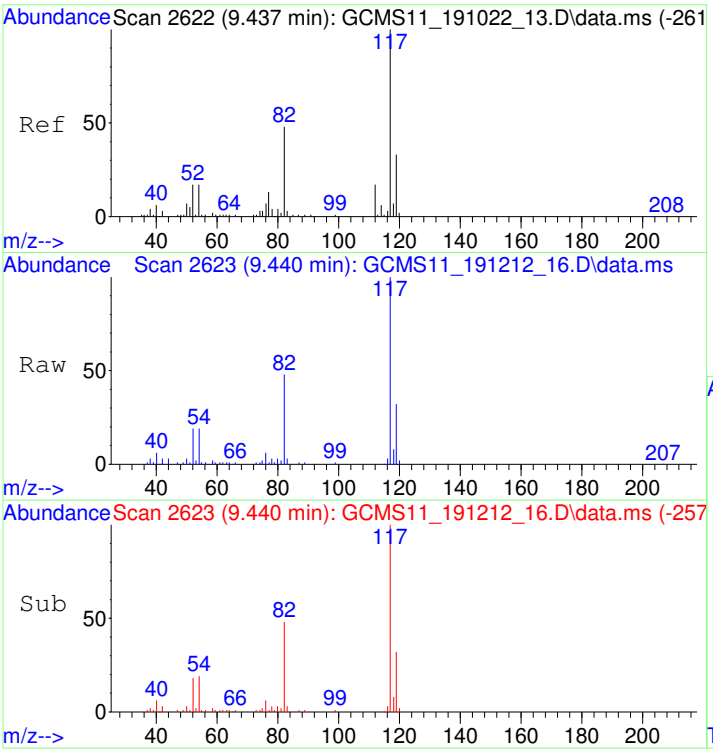


#37
TOLUENE-D8
Concen: 51.28 ng
RT: 7.99 min Scan# 2171
Delta R.T. 0.003 min
Lab File: GCMS11_191212_16.D
Acq: 12 Dec 2019 7:51 pm

Tgt Ion: 98 Resp: 63180

Ion	Ratio	Lower	Upper
98	100		
99	8.6	0.0	39.8
70	10.1	0.0	40.7

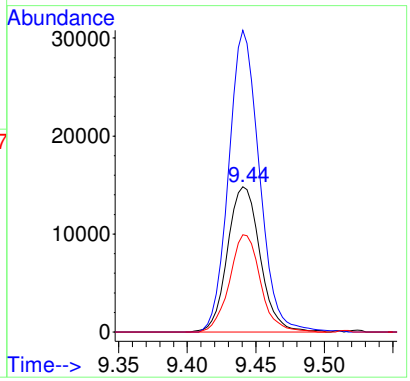


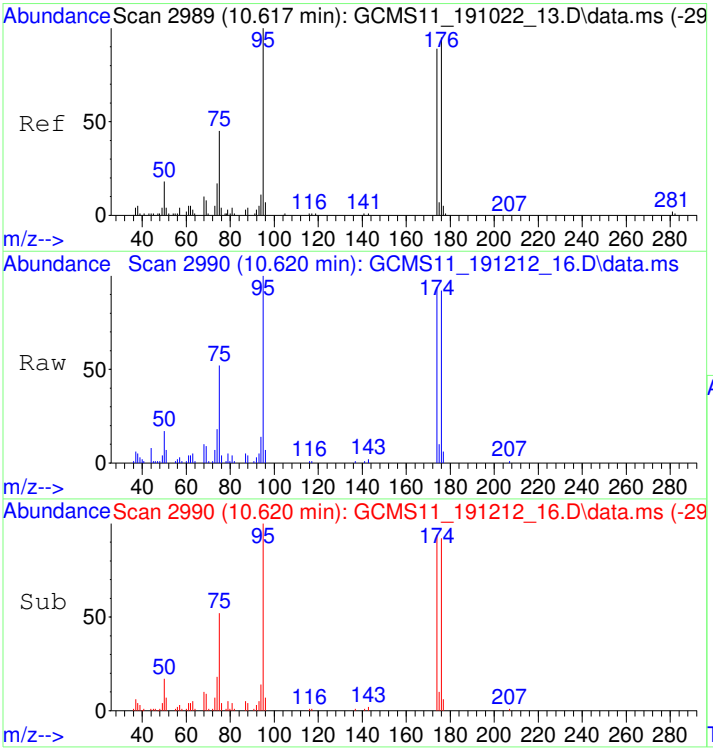


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191212_16.D
Acq: 12 Dec 2019 7:51 pm

Tgt Ion: 82 Resp: 24645

Ion	Ratio	Lower	Upper
82	100		
117	195.2	160.7	220.7
119	63.5	33.5	93.5

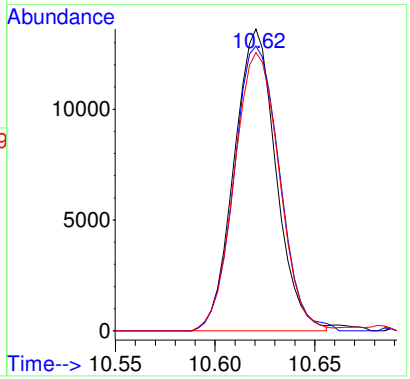


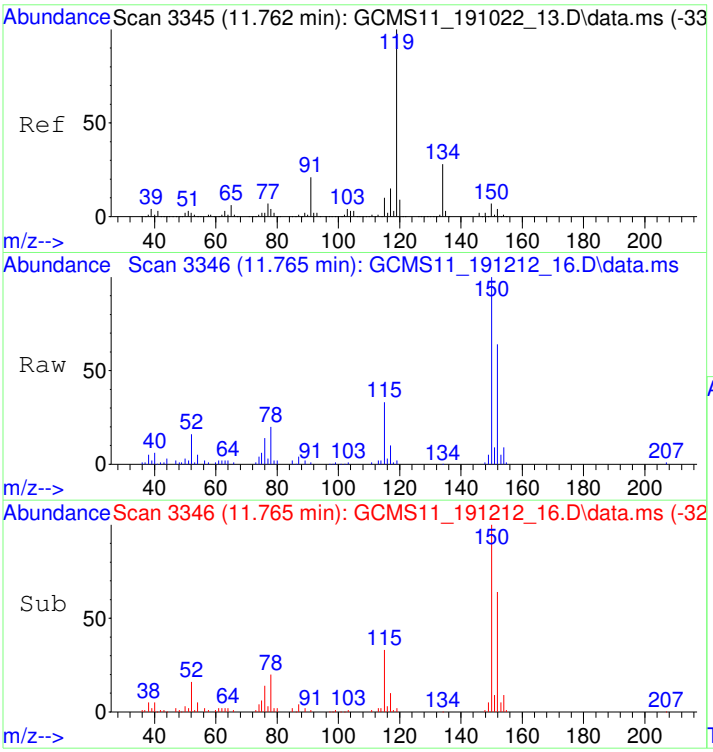


#55
4-BROMOFLUOROBENZENE
Concen: 44.62 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191212_16.D
Acq: 12 Dec 2019 7:51 pm

Tgt Ion: 95 Resp: 19938

Ion	Ratio	Lower	Upper
95	100		
174	101.7	68.5	128.5
176	98.8	66.8	126.8

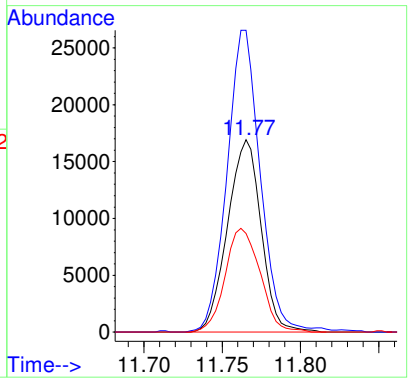




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_16.D
Acq: 12 Dec 2019 7:51 pm

Tgt Ion:152 Resp: 25206

Ion	Ratio	Lower	Upper
152	100		
150	156.4	162.5	222.5#
115	56.1	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_15.D
Acq On : 12 Dec 2019 7:23 pm
Operator : ko
Sample : B19L012-BLK1
Misc : LIMS 19L1101
ALS Vial : 10 Sample Multiplier: 1

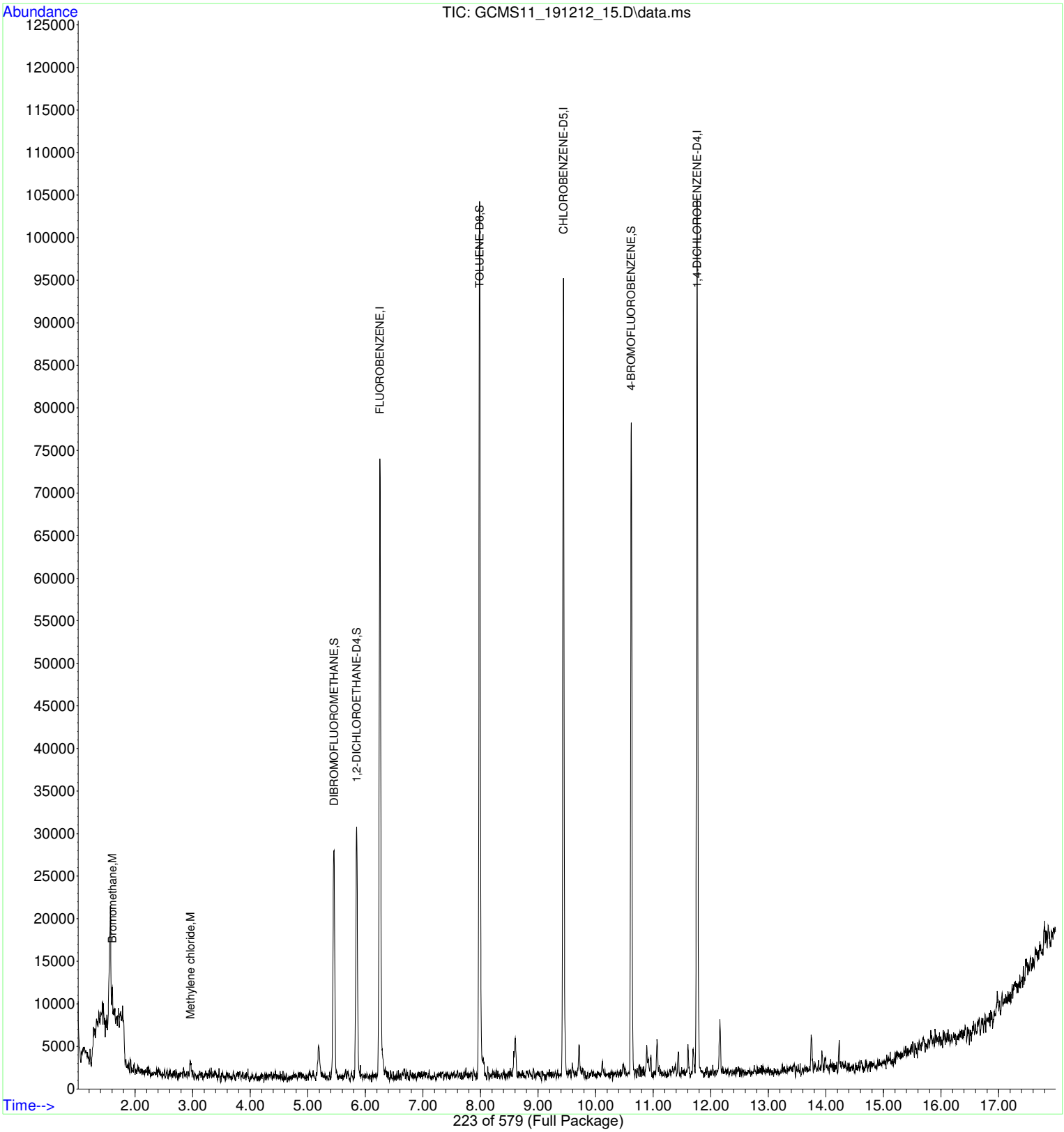
Quant Time: Dec 13 10:38:13 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

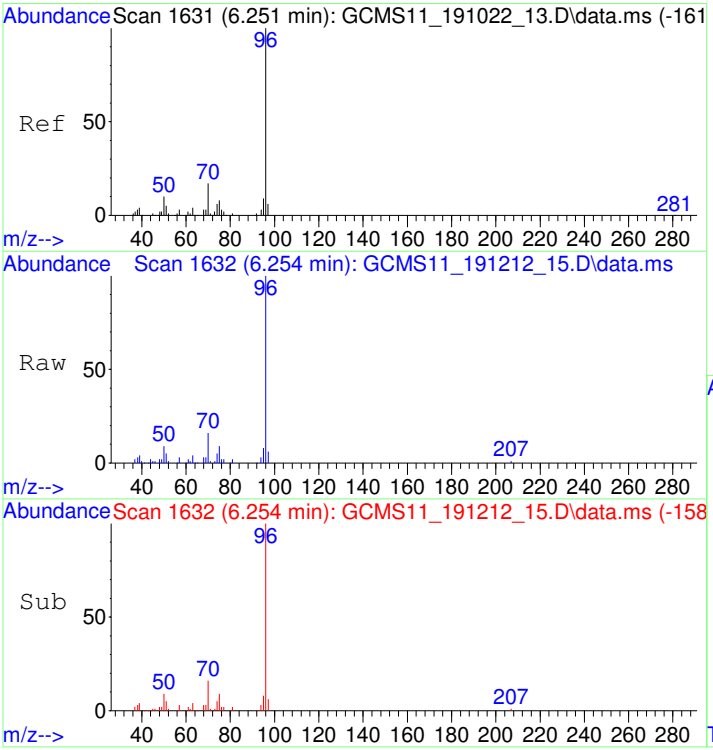
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.25	96	65717	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	25679	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	26035	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.46	113	17403	50.42	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	20829	50.64	ng	0.00
37) TOLUENE-D8	7.98	98	66744	51.64	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	22467	48.25	ng	0.00
Target Compounds						Qvalue
5) Bromomethane	1.60	96	840	2.84	ng	# 69
12) Methylene chloride	2.96	84	914	2.21	ng	92

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_15.D
Acq On : 12 Dec 2019 7:23 pm
Operator : ko
Sample : B19L012-BLK1
Misc : LIMS 19L1101
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 13 10:38:13 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

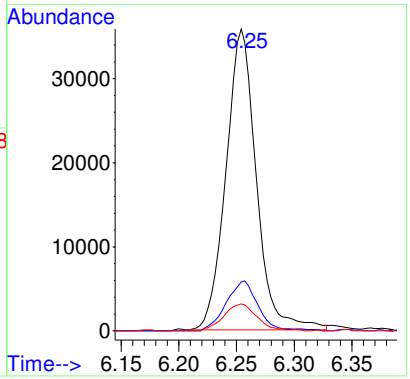


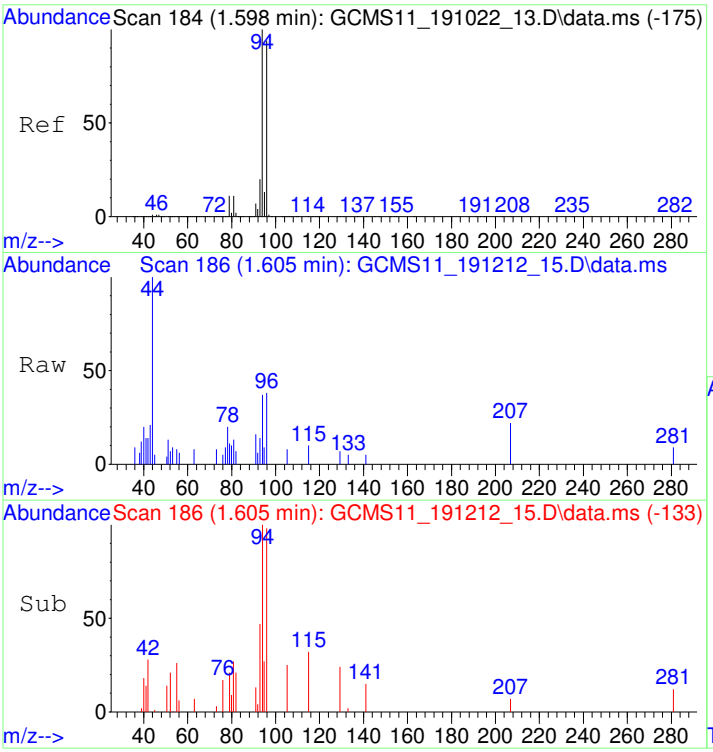


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191212_15.D
Acq: 12 Dec 2019 7:23 pm

Tgt Ion: 96 Resp: 65717

Ion	Ratio	Lower	Upper
96	100		
70	17.0	0.0	48.3
50	9.6	0.0	39.5

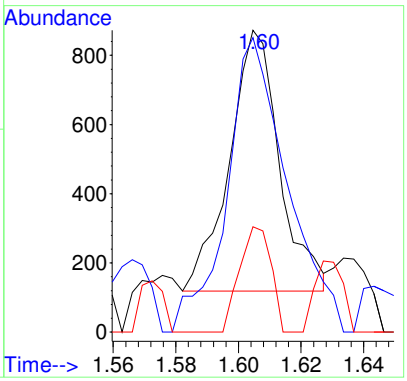


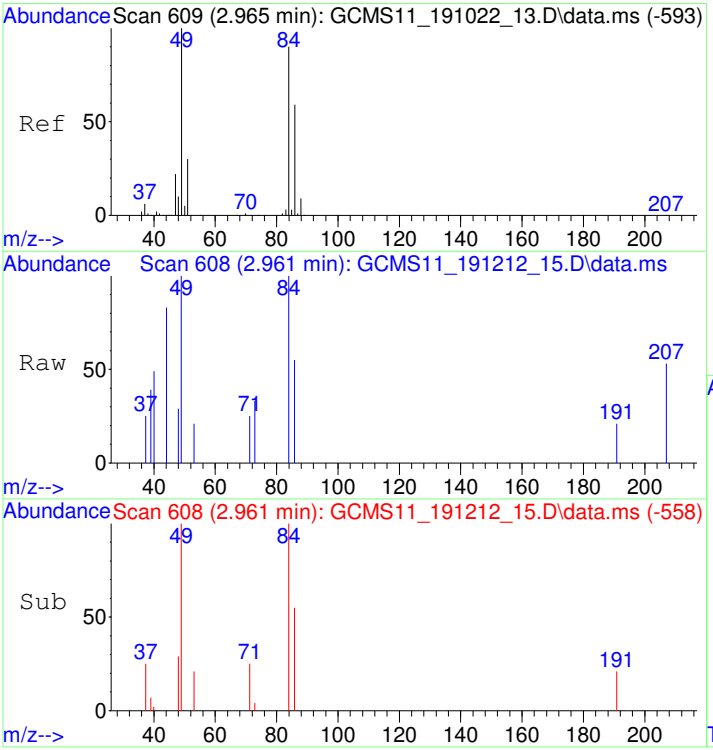


#5
Bromomethane
Concen: 2.84 ng
RT: 1.60 min Scan# 186
Delta R.T. -0.000 min
Lab File: GCMS11_191212_15.D
Acq: 12 Dec 2019 7:23 pm

Tgt Ion: 96 Resp: 840

Ion	Ratio	Lower	Upper
96	100		
94	135.7	74.8	134.8#
81	25.5	0.0	42.0

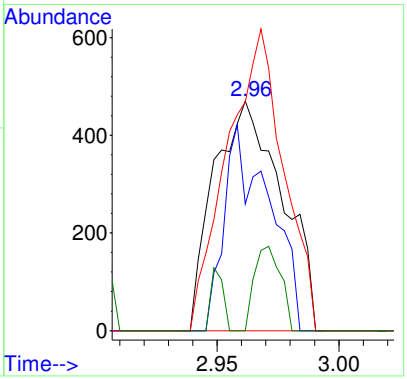


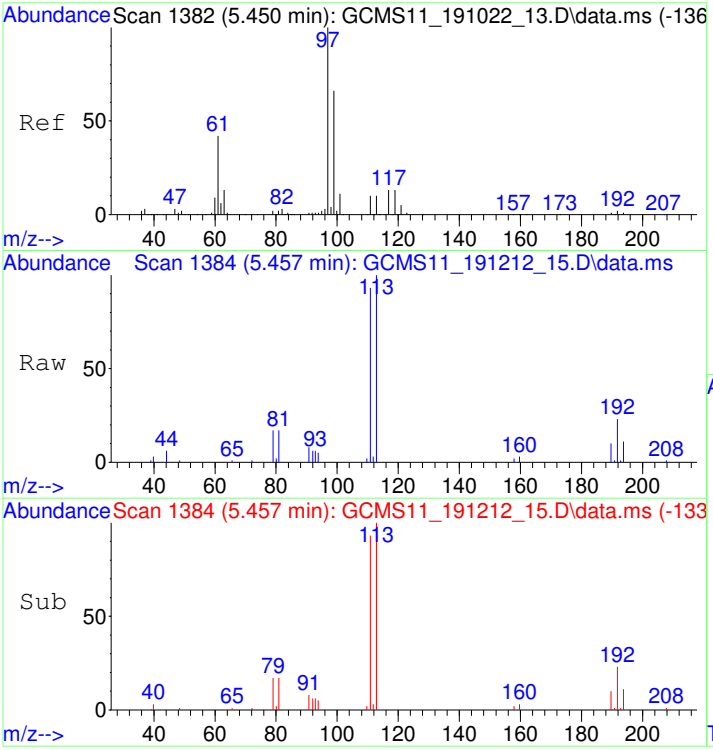


#12
Methylene chloride
Concen: 2.21 ng
RT: 2.96 min Scan# 608
Delta R.T. -0.010 min
Lab File: GCMS11_191212_15.D
Acq: 12 Dec 2019 7:23 pm

Tgt Ion: 84 Resp: 914

Ion	Ratio	Lower	Upper
84	100		
86	59.5	35.2	95.2
49	108.8	78.3	138.3
51	14.2	4.0	64.0

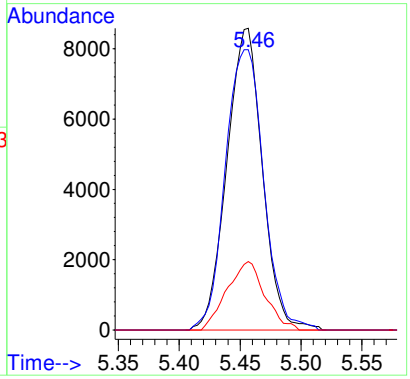


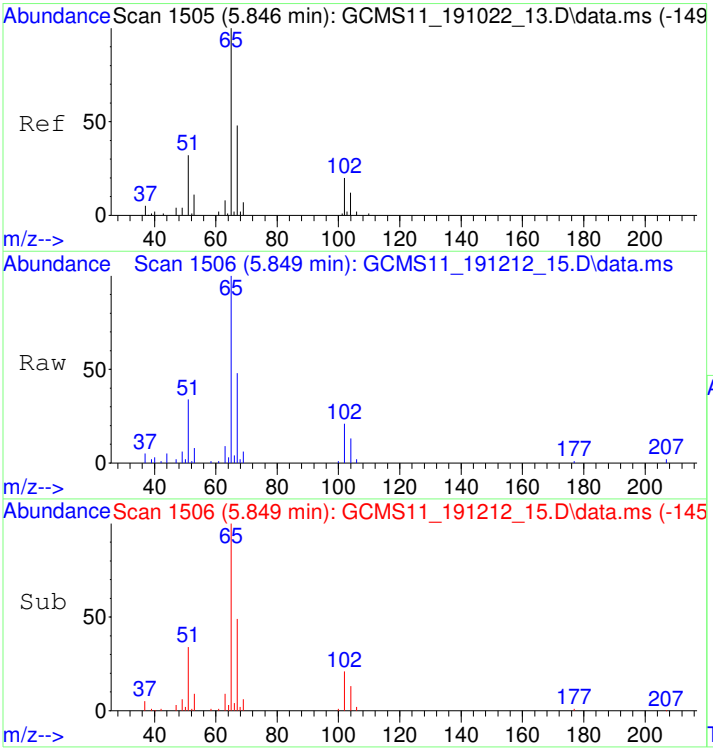


#22
DIBROMOFLUOROMETHANE
Concen: 50.42 ng
RT: 5.46 min Scan# 1384
Delta R.T. -0.003 min
Lab File: GCMS11_191212_15.D
Acq: 12 Dec 2019 7:23 pm

Tgt Ion:113 Resp: 17403

Ion	Ratio	Lower	Upper
113	100		
111	100.5	75.2	135.2
192	24.2	0.0	52.1

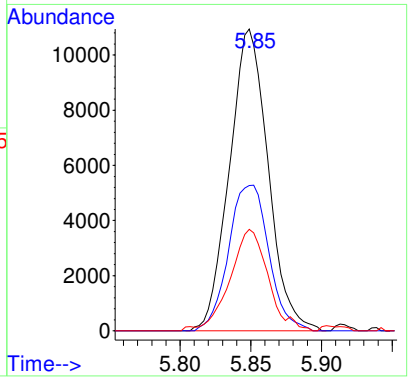


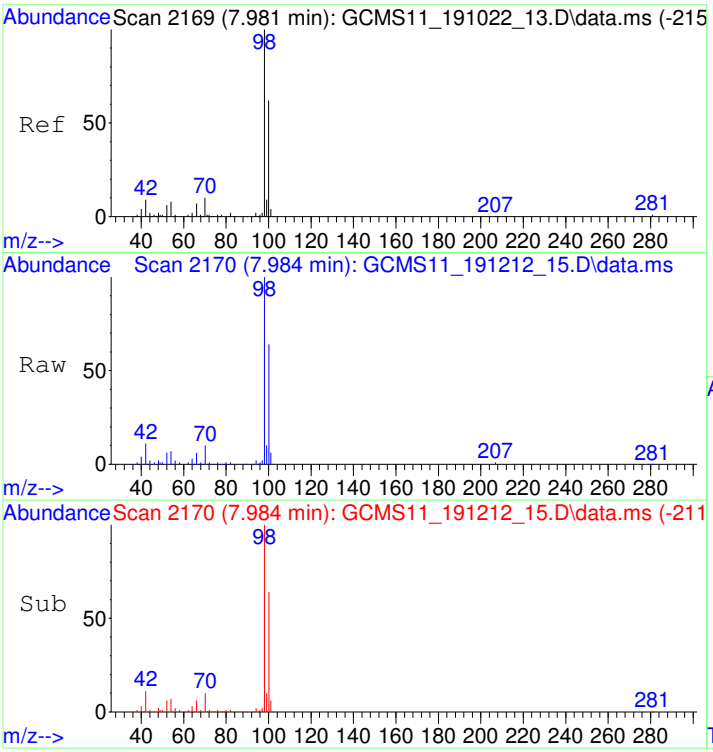


#26
1,2-DICHLOROETHANE-D4
Concen: 50.64 ng
RT: 5.85 min Scan# 1506
Delta R.T. -0.003 min
Lab File: GCMS11_191212_15.D
Acq: 12 Dec 2019 7:23 pm

Tgt Ion: 65 Resp: 20829

Ion	Ratio	Lower	Upper
65	100		
67	50.3	15.4	75.4
51	33.3	2.7	62.7

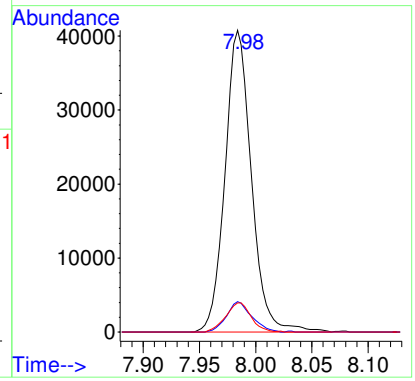


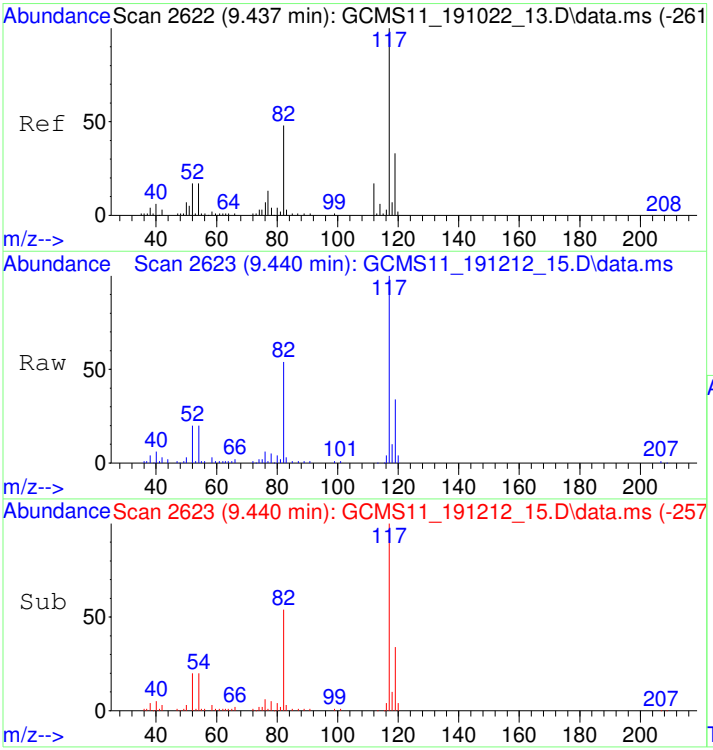


#37
TOLUENE-D8
Concen: 51.64 ng
RT: 7.98 min Scan# 2170
Delta R.T. -0.000 min
Lab File: GCMS11_191212_15.D
Acq: 12 Dec 2019 7:23 pm

Tgt Ion: 98 Resp: 66744

Ion	Ratio	Lower	Upper
98	100		
99	9.6	0.0	39.8
70	9.3	0.0	40.7

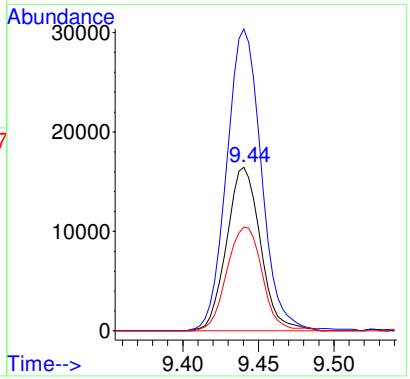


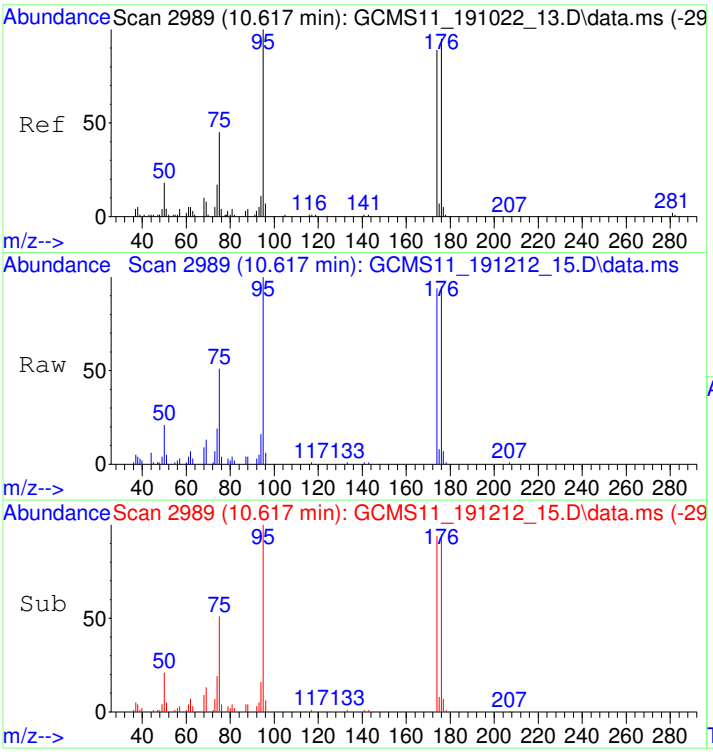


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191212_15.D
Acq: 12 Dec 2019 7:23 pm

Tgt Ion: 82 Resp: 25679

Ion	Ratio	Lower	Upper
82	100		
117	189.7	160.7	220.7
119	65.6	33.5	93.5

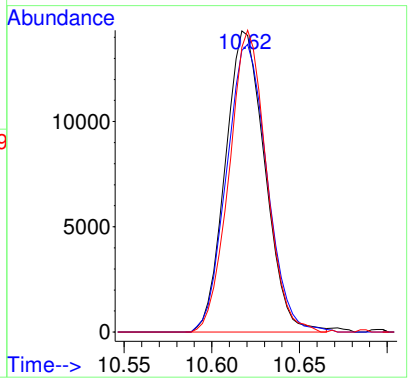


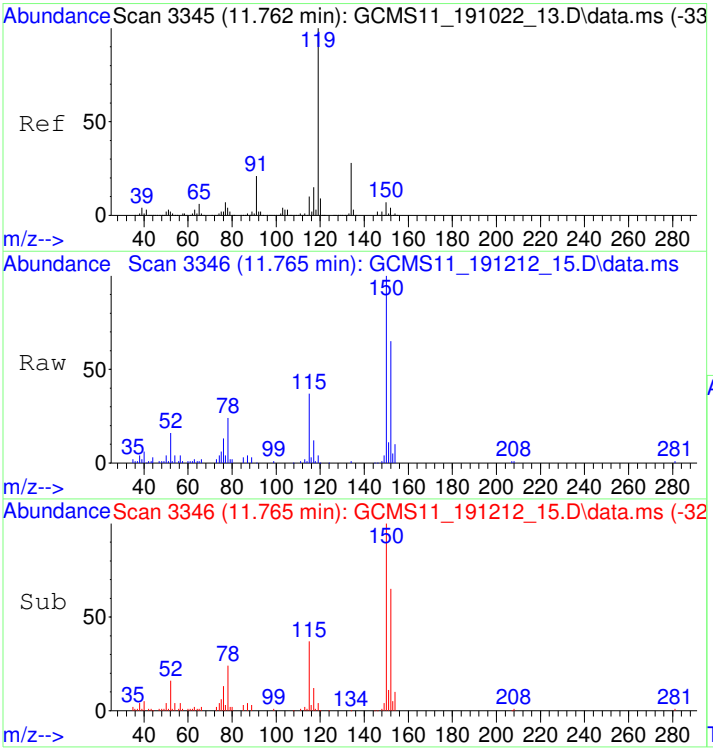


#55
4-BROMOFLUOROBENZENE
Concen: 48.25 ng
RT: 10.62 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191212_15.D
Acq: 12 Dec 2019 7:23 pm

Tgt Ion: 95 Resp: 22467

Ion	Ratio	Lower	Upper
95	100		
174	97.7	68.5	128.5
176	94.1	66.8	126.8

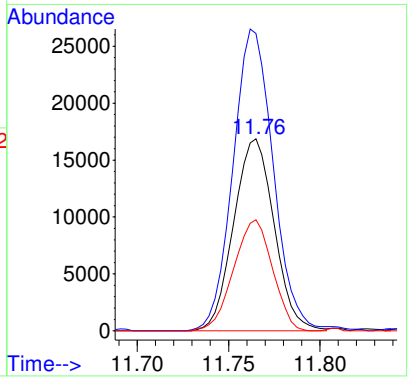




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.76 min Scan# 3346
Delta R.T. -0.000 min
Lab File: GCMS11_191212_15.D
Acq: 12 Dec 2019 7:23 pm

Tgt Ion:152 Resp: 26035

Ion	Ratio	Lower	Upper
152	100		
150	157.2	162.5	222.5#
115	55.4	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_14.D
Acq On : 12 Dec 2019 6:54 pm
Operator : ko
Sample : B19L012-BS1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 13 10:36:40 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	66395	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	24323	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	27141	50.00	ng		0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.46	113	18089	51.87	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	19803	47.65	ng		0.00
37) TOLUENE-D8	7.98	98	64941	49.73	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	21428	48.59	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.12	85	45047	145.90	ng		97
3) Chloromethane	1.26	50	37035	131.31	ng		95
4) Vinyl chloride	1.35	62	49784	139.25	ng		99
5) Bromomethane	1.60	96	41344	138.58	ng		99
6) Chloroethane	1.69	64	34735	132.90	ng		97
7) Trichlorofluoromethane	1.92	101	64590	140.08	ng		100
9) 1,1-Dichloroethene	2.41	96	45324	131.34	ng		94
12) Methylene chloride	2.97	84	52454	125.71	ng		97
14) trans-1,2-Dichloroethene	3.31	96	49850	128.32	ng		96
16) 1,1-Dichloroethane	3.92	63	86147	134.28	ng		98
17) 2,2-Dichloropropane	4.78	77	73331	138.31	ng		99
18) cis-1,2-Dichloroethene	4.79	96	53777	128.26	ng		92
20) Bromochloromethane	5.11	128	30228	132.64	ng		97
21) Chloroform	5.25	83	84140	131.57	ng		98
23) 1,1,1-Trichloroethane	5.44	97	75072	129.04	ng		98
24) Carbon tetrachloride	5.65	117	68829	131.68	ng		98
25) 1,1-Dichloropropene	5.66	75	60407	127.35	ng		98
27) Benzene	5.90	78	204823	127.27	ng		93
28) 1,2-Dichloroethane	5.94	62	70625	130.57	ng		99
29) Trichloroethene	6.67	95	49394	130.05	ng		94
30) 1,2-Dichloropropane	6.91	63	45055	126.25	ng		97
31) Dibromomethane	7.04	93	36484	125.59	ng		97
33) Bromodichloromethane	7.24	83	67124	133.27	ng		97
35) cis-1,3-Dichloropropene	7.72	75	74899	134.19	ng		99
38) Toluene	8.05	92	112440	124.89	ng		99
40) trans-1,3-Dichloropropene	8.31	75	71640	135.09	ng		97
41) 1,1,2-Trichloroethane	8.48	83	39745	130.33	ng		96
42) Tetrachloroethene	8.60	164	42458	138.67	ng		98
43) 1,3-Dichloropropane	8.64	76	80370	136.06	ng		99
45) Dibromochloromethane	8.86	129	60374	133.37	ng		99
46) 1,2-Dibromoethane (EDB)	8.96	107	50267	130.00	ng		92
47) Chlorobenzene	9.47	112	136742	130.89	ng		98
48) 1,1,1,2-Tetrachloroethane	9.56	131	51546	128.11	ng		98
49) Ethylbenzene	9.59	106	72148	134.00	ng		96
50) m+p-Xylene	9.71	106	178157	261.54	ng		99
51) o-Xylene	10.10	106	87674	133.23	ng		93
52) Styrene	10.12	103	80567	129.44	ng		98
53) Bromoform	10.29	173	41773	127.46	ng	#	97
54) Isopropylbenzene	10.48	105	230651	132.76	ng		98
56) Bromobenzene	10.76	156	61107	133.96	ng		97
57) 1,2,3-Trichloropropane	10.81	75	52180	130.56	ng		97
58) n-Propylbenzene	10.89	91	260262	133.20	ng		100
59) 2-Chlorotoluene	10.96	91	150576	131.87	ng		98
60) 1,3,5-Trimethylbenzene	11.07	105	185517	131.10	ng		99
61) 4-Chlorotoluene	11.07	91	170006	127.62	ng		97
63) 1,1,2,2-Tetrachloroethane	10.78	83	65413	134.29	ng		99

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_14.D
Acq On : 12 Dec 2019 6:54 pm
Operator : ko
Sample : B19L012-BS1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 9 Sample Multiplier: 1

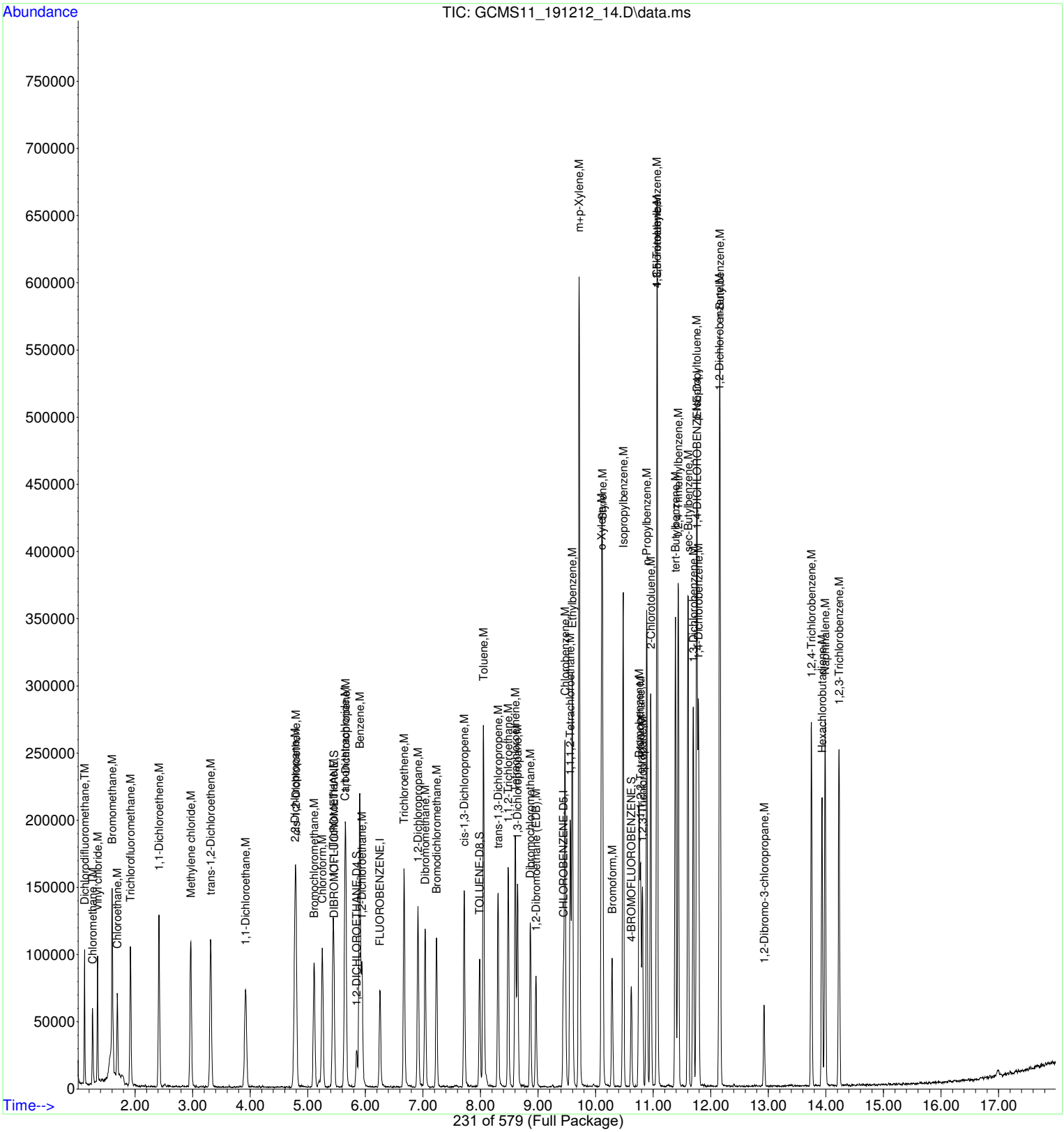
Quant Time: Dec 13 10:36:40 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
64) tert-Butylbenzene	11.39	119	165744	138.39 ng		99
65) 1,2,4-Trimethylbenzene	11.43	105	190985	130.39 ng		99
66) sec-Butylbenzene	11.61	105	246940	137.39 ng		99
67) 1,3-Dichlorobenzene	11.70	146	113288	135.18 ng		98
68) p-Isopropyltoluene	11.76	119	207056	131.58 ng		99
69) 1,4-Dichlorobenzene	11.79	146	109649	128.54 ng		96
70) 1,2-Dichlorobenzene	12.15	146	120207	132.66 ng		98
71) n-Butylbenzene	12.16	91	185266	132.41 ng		98
72) 1,2-Dibromo-3-chloropr...	12.93	155	12163	130.73 ng		94
73) 1,2,4-Trichlorobenzene	13.75	180	85513	139.93 ng		98
74) Hexachlorobutadiene	13.93	225	39842	139.91 ng	#	1
75) Naphthalene	13.99	128	211589	135.20 ng		99
76) 1,2,3-Trichlorobenzene	14.23	180	79548	126.89 ng		99

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_14.D
Acq On : 12 Dec 2019 6:54 pm
Operator : ko
Sample : B19L012-BS1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 13 10:36:40 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



231 of 579 (Full Package)

Evaluate Continuing Calibration Report

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_14.D
Acq On : 12 Dec 2019 6:54 pm
Operator : ko
Sample : B19L012-BS1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 13 10:36:40 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	93	0.00
2	TM	Dichlorodifluoromethane	125.000	145.903	-16.7	98	0.00
3	TM	Chloromethane	125.000	131.305	-5.0	92	0.00
4	M	Vinyl chloride	125.000	139.249	-11.4	96	0.00
5	M	Bromomethane	125.000	138.577	-10.9	101	0.00
6	M	Chloroethane	125.000	132.900	-6.3	95	0.00
7	M	Trichlorofluoromethane	125.000	140.076	-12.1	99	0.00
8	M	Acrolein	625.000	0.000	100.0#	0	-2.32#
9	M	1,1-Dichloroethene	125.000	131.344	-5.1	100	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	125.707	-0.6	99	0.00
13	M	Acrylonitrile	625.000	0.000	100.0#	0	-3.29#
14	M	trans-1,2-Dichloroethene	125.000	128.321	-2.7	100	0.00
15	M	Methyl tert-butyl ether	125.000	0.000	100.0#	0	-3.34#
16	M	1,1-Dichloroethane	125.000	134.285	-7.4	100	0.00
17	M	2,2-Dichloropropane	125.000	138.313	-10.7	102	0.00
18	M	cis-1,2-Dichloroethene	125.000	128.260	-2.6	95	0.00
19	M	2-Butanone	625.000	0.000	100.0#	0	-4.86#
20	M	Bromochloromethane	125.000	132.641	-6.1	99	0.00
21	M	Chloroform	125.000	131.565	-5.3	97	0.00
22	S	DIBROMOFLUOROMETHANE	50.000	51.875	-3.8	96	0.00
23	M	1,1,1-Trichloroethane	125.000	129.040	-3.2	96	0.00
24	M	Carbon tetrachloride	125.000	131.677	-5.3	101	0.00
25	M	1,1-Dichloropropene	125.000	127.350	-1.9	97	0.00
26	S	1,2-DICHLOROETHANE-D4	50.000	47.652	4.7	86	0.00
27	M	Benzene	125.000	127.266	-1.8	96	0.00
28	M	1,2-Dichloroethane	125.000	130.569	-4.5	100	0.00
29	M	Trichloroethene	125.000	130.053	-4.0	100	0.00
30	M	1,2-Dichloropropane	125.000	126.252	-1.0	97	0.00
31	M	Dibromomethane	125.000	125.586	-0.5	97	0.00
32	M	1,4-Dioxane	750.000	0.000	100.0#	0	-7.20#
33	M	Bromodichloromethane	125.000	133.266	-6.6	99	0.00
34	M	2-Chloroethylvinyl ether	125.000	0.000	100.0#	0	-7.59#
35	M	cis-1,3-Dichloropropene	125.000	134.195	-7.4	99	0.00
36	M	4-Methyl-2-pentanone	250.000	0.000	100.0#	0	-7.91#
37	S	TOLUENE-D8	50.000	49.733	0.5	93	0.00
38	M	Toluene	125.000	124.889	0.1	98	0.00
39	I	CHLOROBENZENE-D5	50.000	50.000	0.0	89	0.00
40	M	trans-1,3-Dichloropropene	125.000	135.090	-8.1	98	0.00
41	M	1,1,2-Trichloroethane	125.000	130.327	-4.3	98	0.00
42	M	Tetrachloroethene	125.000	138.668	-10.9	99	0.00
43	M	1,3-Dichloropropane	125.000	136.062	-8.8	101	0.00
44	M	2-Hexanone	250.000	0.000	100.0#	0	-8.76#
45	M	Dibromochloromethane	125.000	133.370	-6.7	99	0.00
46	M	1,2-Dibromoethane (EDB)	125.000	130.004	-4.0	96	0.00
47	M	Chlorobenzene	125.000	130.887	-4.7	98	0.00

48	M	1,1,1,2-Tetrachloroethane	125.000	128.113	-2.5	97	0.00
49	M	Ethylbenzene	125.000	133.998	-7.2	100	0.00
50	M	m+p-Xylene	250.000	261.538	-4.6	99	0.00
51	M	o-Xylene	125.000	133.229	-6.6	103	0.00
52	M	Styrene	125.000	129.436	-3.5	101	0.00
53	M	Bromoform	125.000	127.455	-2.0	96	0.00
54	M	Isopropylbenzene	125.000	132.759	-6.2	101	0.00
55	S	4-BROMOFLUOROBENZENE	50.000	48.589	2.8	89	0.00
56	M	Bromobenzene	125.000	133.959	-7.2	98	0.00
57	M	1,2,3-Trichloropropane	125.000	130.560	-4.4	95	0.00
58	M	n-Propylbenzene	125.000	133.201	-6.6	99	0.00
59	M	2-Chlorotoluene	125.000	131.873	-5.5	98	0.00
60	M	1,3,5-Trimethylbenzene	125.000	131.103	-4.9	100	0.00
61	M	4-Chlorotoluene	125.000	127.624	-2.1	96	0.00
62	I	1,4-DICHLOROBENZENE-D4	50.000	50.000	0.0	92	0.00
63	M	1,1,2,2-Tetrachloroethane	125.000	134.294	-7.4	98	0.00
64	M	tert-Butylbenzene	125.000	138.391	-10.7	97	0.00
65	M	1,2,4-Trimethylbenzene	125.000	130.392	-4.3	98	0.00
66	M	sec-Butylbenzene	125.000	137.395	-9.9	99	0.00
67	M	1,3-Dichlorobenzene	125.000	135.184	-8.1	102	0.00
68	M	p-Isopropyltoluene	125.000	131.576	-5.3	97	0.00
69	M	1,4-Dichlorobenzene	125.000	128.538	-2.8	93	0.00
70	M	1,2-Dichlorobenzene	125.000	132.664	-6.1	101	0.00
71	M	n-Butylbenzene	125.000	132.405	-5.9	98	0.00
72	M	1,2-Dibromo-3-chloropropane	125.000	130.728	-4.6	100	0.00
73	M	1,2,4-Trichlorobenzene	125.000	139.926	-11.9	103	0.00
74	M	Hexachlorobutadiene	125.000	139.914	-11.9	96	0.00
75	M	Naphthalene	125.000	135.201	-8.2	100	0.00
76	M	1,2,3-Trichlorobenzene	125.000	126.888	-1.5	102	0.00

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

GCMS11_1912..._FULL LIST.M Fri Dec 13 10:37:25 2019

Evaluate Continuing Calibration Report

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_29.D
Acq On : 13 Dec 2019 2:24 am
Operator : ko
Sample : B19L012-BSD1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 13 11:09:57 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	93	0.00
2	TM	Dichlorodifluoromethane	125.000	121.344	2.9	82	0.00
3	TM	Chloromethane	125.000	133.802	-7.0	95	0.00
4	M	Vinyl chloride	125.000	129.780	-3.8	90	0.00
5	M	Bromomethane	125.000	123.306	1.4	90	0.00
6	M	Chloroethane	125.000	122.466	2.0	88	0.00
7	M	Trichlorofluoromethane	125.000	125.004	-0.0	89	0.00
8	M	Acrolein	625.000	0.000	100.0#	0	-2.32#
9	M	1,1-Dichloroethene	125.000	119.107	4.7	91	0.00
10	M	Acetone	625.000	0.000	100.0#	0	0.01
11	M	Carbon disulfide	125.000	0.000	100.0#	0	-2.62#
12	M	Methylene chloride	125.000	115.680	7.5	92	0.00
13	M	Acrylonitrile	625.000	0.000	100.0#	0	-3.29#
14	M	trans-1,2-Dichloroethene	125.000	119.365	4.5	94	0.00
15	M	Methyl tert-butyl ether	125.000	0.000	100.0#	0	-3.34#
16	M	1,1-Dichloroethane	125.000	123.709	1.0	93	-0.01
17	M	2,2-Dichloropropane	125.000	92.292	26.2	69	0.00
18	M	cis-1,2-Dichloroethene	125.000	119.896	4.1	89	0.00
19	M	2-Butanone	625.000	0.000	100.0#	0	-4.86#
20	M	Bromochloromethane	125.000	124.005	0.8	93	0.00
21	M	Chloroform	125.000	123.763	1.0	92	0.00
22	S	DIBROMOFLUOROMETHANE	50.000	47.304	5.4	88	0.00
23	M	1,1,1-Trichloroethane	125.000	118.106	5.5	89	0.00
24	M	Carbon tetrachloride	125.000	117.383	6.1	90	0.00
25	M	1,1-Dichloropropene	125.000	116.121	7.1	89	0.00
26	S	1,2-DICHLOROETHANE-D4	50.000	49.544	0.9	90	0.00
27	M	Benzene	125.000	116.892	6.5	89	0.00
28	M	1,2-Dichloroethane	125.000	117.808	5.8	90	0.00
29	M	Trichloroethene	125.000	119.387	4.5	93	0.00
30	M	1,2-Dichloropropane	125.000	117.367	6.1	91	0.00
31	M	Dibromomethane	125.000	118.744	5.0	92	0.00
32	M	1,4-Dioxane	750.000	0.000	100.0#	0	-7.20#
33	M	Bromodichloromethane	125.000	121.380	2.9	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	120.543	3.6	89	0.00
36	M	4-Methyl-2-pentanone	250.000	0.000	100.0#	0	-7.91#
37	S	TOLUENE-D8	50.000	49.063	1.9	92	0.00
38	M	Toluene	125.000	115.998	7.2	91	0.00
39	I	CHLOROBENZENE-D5	50.000	50.000	0.0	85	0.00
40	M	trans-1,3-Dichloropropene	125.000	119.844	4.1	84	0.00
41	M	1,1,2-Trichloroethane	125.000	127.611	-2.1	92	0.00
42	M	Tetrachloroethene	125.000	127.715	-2.2	87	0.00
43	M	1,3-Dichloropropane	125.000	130.706	-4.6	93	0.00
44	M	2-Hexanone	250.000	0.000	100.0#	0	-8.76#
45	M	Dibromochloromethane	125.000	125.590	-0.5	89	0.00
46	M	1,2-Dibromoethane (EDB)	125.000	126.805	-1.4	90	0.00
47	M	Chlorobenzene	125.000	127.453	-2.0	92	0.00
48	M	1,1,1,2-Tetrachloroethane	125.000	123.849	0.9	90	0.00
49	M	Ethylbenzene	125.000	129.909	-3.9	93	0.00
50	M	m+p-Xylene	250.000	258.405	-3.4	94	0.00
51	M	o-Xylene	125.000	129.032	-3.2	96	0.00
52	M	Styrene	125.000	130.796	-4.6	98	0.00
53	M	Bromoform	125.000	122.590	1.9	89	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_29.D
Acq On : 13 Dec 2019 2:24 am
Operator : ko
Sample : B19L012-BSD1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 13 11:09:57 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	128.870	-3.1	93	0.00
55	S	4-BROMOFLUOROBENZENE	50.000	52.131	-4.3	91	0.00
56	M	Bromobenzene	125.000	131.627	-5.3	93	0.00
57	M	1,2,3-Trichloropropane	125.000	131.739	-5.4	92	0.00
58	M	n-Propylbenzene	125.000	126.427	-1.1	90	0.00
59	M	2-Chlorotoluene	125.000	128.458	-2.8	92	0.00
60	M	1,3,5-Trimethylbenzene	125.000	126.642	-1.3	93	0.00
61	M	4-Chlorotoluene	125.000	124.976	0.0	90	0.00
62	I	1,4-DICHLOROBENZENE-D4	50.000	50.000	0.0	95	0.00
63	M	1,1,2,2-Tetrachloroethane	125.000	122.145	2.3	92	0.00
64	M	tert-Butylbenzene	125.000	124.319	0.5	90	0.00
65	M	1,2,4-Trimethylbenzene	125.000	116.004	7.2	90	0.00
66	M	sec-Butylbenzene	125.000	120.462	3.6	90	0.00
67	M	1,3-Dichlorobenzene	125.000	123.001	1.6	96	0.00
68	M	p-Isopropyltoluene	125.000	117.470	6.0	90	0.00
69	M	1,4-Dichlorobenzene	125.000	117.571	5.9	88	0.00
70	M	1,2-Dichlorobenzene	125.000	120.078	3.9	95	0.00
71	M	n-Butylbenzene	125.000	113.484	9.2	87	0.00
72	M	1,2-Dibromo-3-chloropropane	125.000	122.527	2.0	97	0.00
73	M	1,2,4-Trichlorobenzene	125.000	119.756	4.2	91	0.00
74	M	Hexachlorobutadiene	125.000	115.447	7.6	82	0.00
75	M	Naphthalene	125.000	123.427	1.3	94	0.00
76	M	1,2,3-Trichlorobenzene	125.000	110.765	11.4	92	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_29.D
Acq On : 13 Dec 2019 2:24 am
Operator : ko
Sample : B19L012-BSD1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 13 11:09:57 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	66729	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	23307	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	28079	50.00	ng		0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.45	113	16578	47.30	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	20693	49.54	ng		0.00
37) TOLUENE-D8	7.98	98	64388	49.06	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	22030	52.13	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.12	85	37653	121.34	ng		100
3) Chloromethane	1.26	50	37929	133.80	ng		100
4) Vinyl chloride	1.34	62	46632	129.78	ng		97
5) Bromomethane	1.60	96	36973	123.31	ng		97
6) Chloroethane	1.69	64	32169	122.47	ng		99
7) Trichlorofluoromethane	1.91	101	57930	125.00	ng		97
9) 1,1-Dichloroethene	2.41	96	41308	119.11	ng		94
12) Methylene chloride	2.96	84	48513	115.68	ng		98
14) trans-1,2-Dichloroethene	3.31	96	46604	119.37	ng		94
16) 1,1-Dichloroethane	3.91	63	79762	123.71	ng		98
17) 2,2-Dichloropropane	4.78	77	49178	92.29	ng		98
18) cis-1,2-Dichloroethene	4.79	96	50523	119.90	ng		95
20) Bromochloromethane	5.11	128	28402	124.01	ng		96
21) Chloroform	5.25	83	79548	123.76	ng		99
23) 1,1,1-Trichloroethane	5.44	97	69057	118.11	ng		97
24) Carbon tetrachloride	5.64	117	61666	117.38	ng		99
25) 1,1-Dichloropropene	5.66	75	55358	116.12	ng		99
27) Benzene	5.90	78	189073	116.89	ng		99
28) 1,2-Dichloroethane	5.94	62	64043	117.81	ng		99
29) Trichloroethene	6.67	95	45571	119.39	ng		97
30) 1,2-Dichloropropane	6.91	63	42095	117.37	ng		100
31) Dibromomethane	7.04	93	34670	118.74	ng		98
33) Bromodichloromethane	7.23	83	61445	121.38	ng		98
35) cis-1,3-Dichloropropene	7.72	75	67618	120.54	ng		97
38) Toluene	8.05	92	104960	116.00	ng		99
40) trans-1,3-Dichloropropene	8.31	75	60900	119.84	ng		99
41) 1,1,2-Trichloroethane	8.48	83	37291	127.61	ng		98
42) Tetrachloroethene	8.60	164	37471	127.72	ng		99
43) 1,3-Dichloropropane	8.64	76	73981	130.71	ng		98
45) Dibromochloromethane	8.87	129	54477	125.59	ng		98
46) 1,2-Dibromoethane (EDB)	8.96	107	46982	126.81	ng		96
47) Chlorobenzene	9.47	112	127592	127.45	ng		98
48) 1,1,1,2-Tetrachloroethane	9.56	131	47749	123.85	ng		98
49) Ethylbenzene	9.59	106	67025	129.91	ng		98
50) m+p-Xylene	9.71	106	168670	258.40	ng		97
51) o-Xylene	10.10	106	81365	129.03	ng		92
52) Styrene	10.12	103	78013	130.80	ng		94
53) Bromoform	10.29	173	38500	122.59	ng	#	97
54) Isopropylbenzene	10.48	105	214542	128.87	ng		98
56) Bromobenzene	10.76	156	57535	131.63	ng		98
57) 1,2,3-Trichloropropane	10.81	75	50452	131.74	ng		98
58) n-Propylbenzene	10.89	91	236707	126.43	ng		99
59) 2-Chlorotoluene	10.96	91	140550	128.46	ng		99
60) 1,3,5-Trimethylbenzene	11.07	105	171720	126.64	ng		100
61) 4-Chlorotoluene	11.07	91	159525	124.98	ng		99
63) 1,1,2,2-Tetrachloroethane	10.78	83	61552	122.15	ng		99

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_29.D
Acq On : 13 Dec 2019 2:24 am
Operator : ko
Sample : B19L012-BSD1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 24 Sample Multiplier: 1

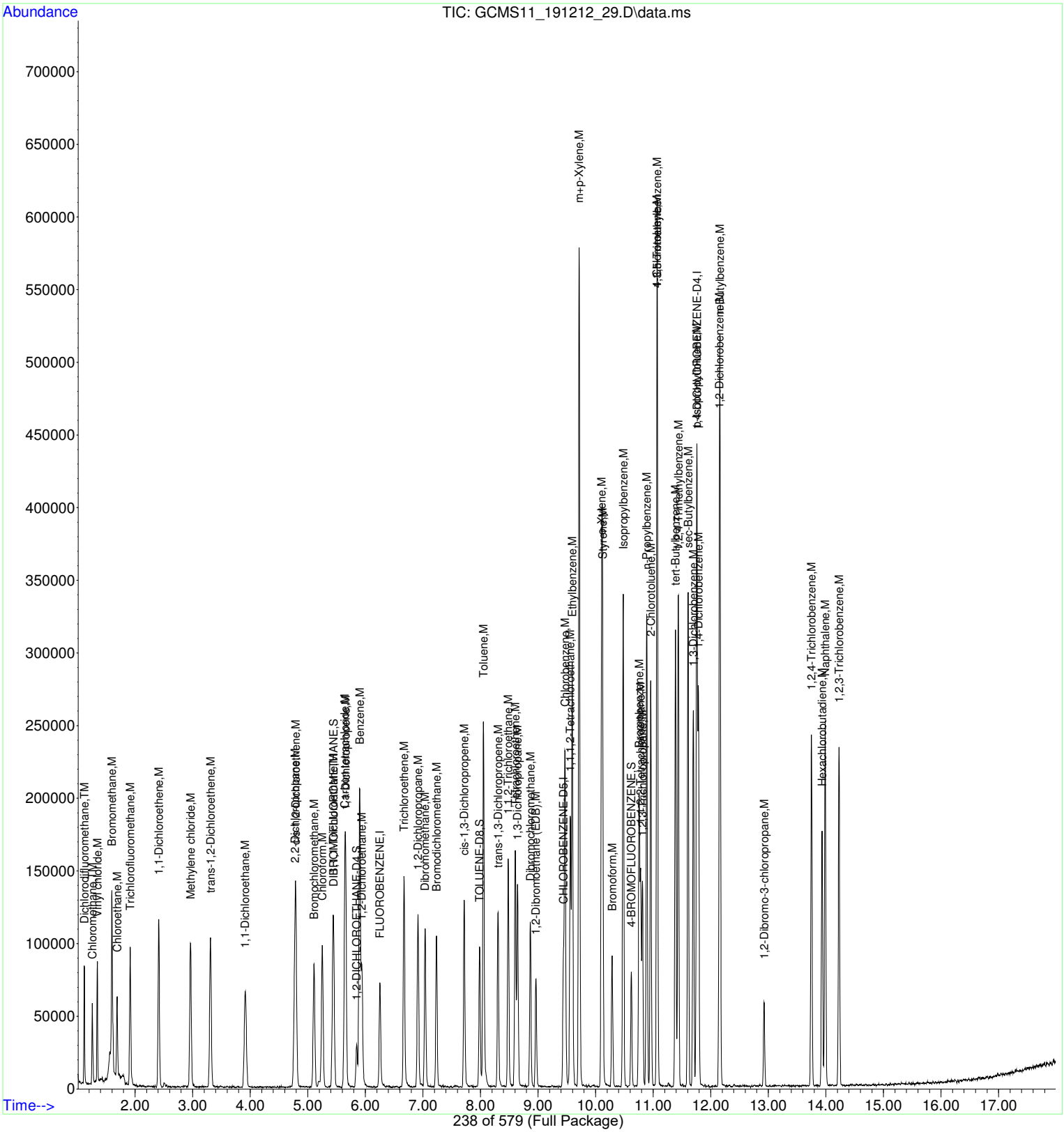
Quant Time: Dec 13 11:09:57 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
64)	tert-Butylbenzene	11.39	119	154036	124.32	ng		99
65)	1,2,4-Trimethylbenzene	11.44	105	175783	116.00	ng		98
66)	sec-Butylbenzene	11.61	105	223990	120.46	ng		100
67)	1,3-Dichlorobenzene	11.70	146	106641	123.00	ng		98
68)	p-Isopropyltoluene	11.76	119	191246	117.47	ng		99
69)	1,4-Dichlorobenzene	11.79	146	103760	117.57	ng		97
70)	1,2-Dichlorobenzene	12.15	146	112563	120.08	ng		99
71)	n-Butylbenzene	12.16	91	164279	113.48	ng		99
72)	1,2-Dibromo-3-chloropr...	12.93	155	11794	122.53	ng		92
73)	1,2,4-Trichlorobenzene	13.75	180	75716	119.76	ng		98
74)	Hexachlorobutadiene	13.93	225	34011	115.45	ng	#	1
75)	Naphthalene	13.99	128	199838	123.43	ng		100
76)	1,2,3-Trichlorobenzene	14.23	180	72157	110.76	ng		99

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_29.D
Acq On : 13 Dec 2019 2:24 am
Operator : ko
Sample : B19L012-BSD1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 13 11:09:57 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



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_17.D
Acq On : 12 Dec 2019 8:19 pm
Operator : ko
Sample : 1912009-01
Misc : LIMS 19L1101
ALS Vial : 12 Sample Multiplier: 1

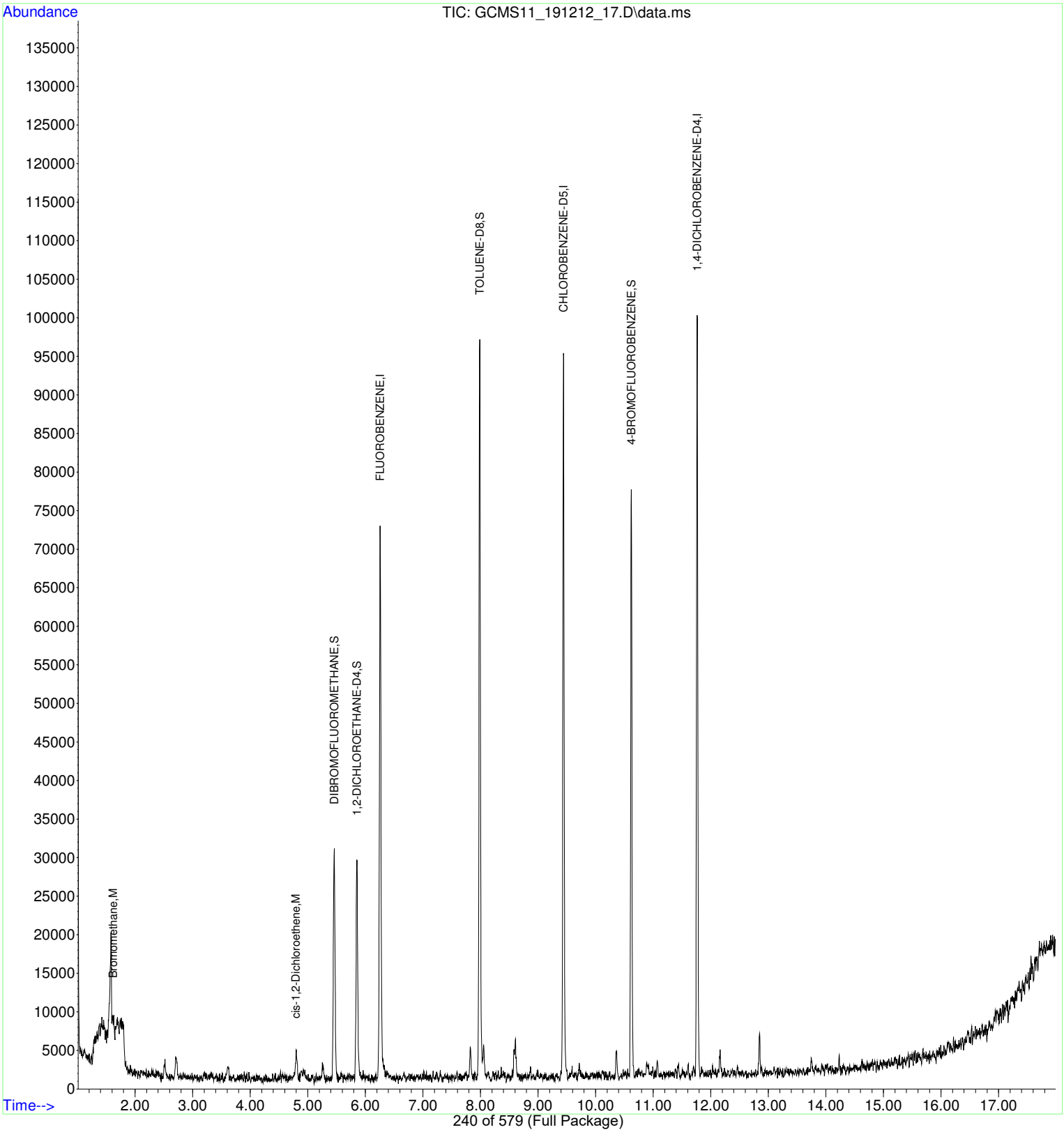
Quant Time: Dec 13 10:39:38 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

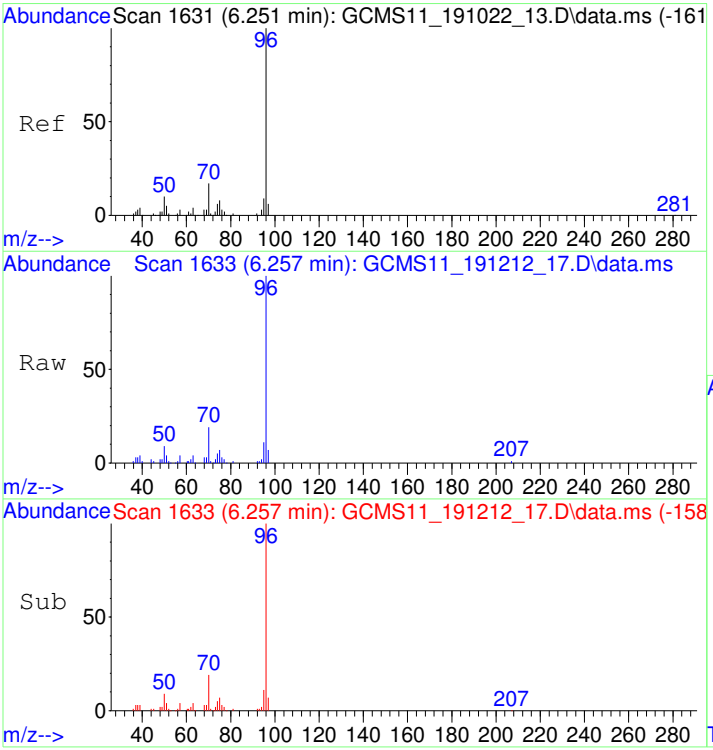
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) FLUOROBENZENE	6.26	96	66268	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	24724	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	25140	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.46	113	17806	51.16 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	19361	46.68 ng	0.00
37) TOLUENE-D8	7.99	98	64839	49.75 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	23025	51.36 ng	0.00
Target Compounds					Qvalue
5) Bromomethane	1.62	96	779	2.62 ng	94
18) cis-1,2-Dichloroethene	4.79	96	1608	3.84 ng	84

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_17.D
Acq On : 12 Dec 2019 8:19 pm
Operator : ko
Sample : 1912009-01
Misc : LIMS 19L1101
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 13 10:39:38 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

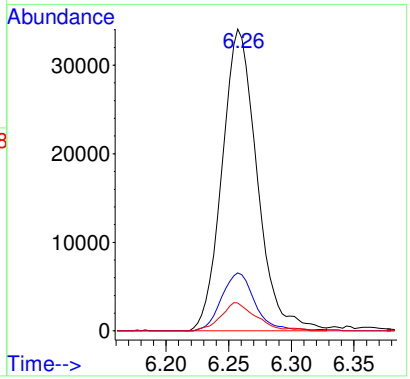


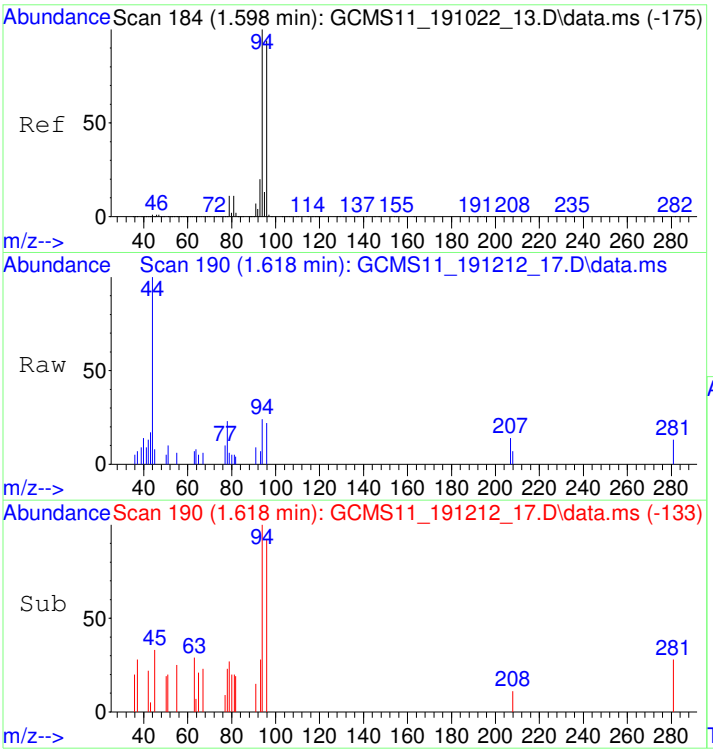


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.26 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191212_17.D
Acq: 12 Dec 2019 8:19 pm

Tgt Ion: 96 Resp: 66268

Ion	Ratio	Lower	Upper
96	100		
70	18.3	0.0	48.3
50	9.2	0.0	39.5

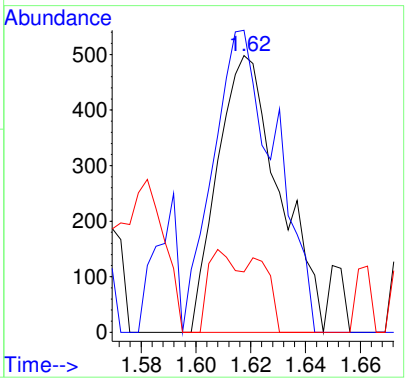


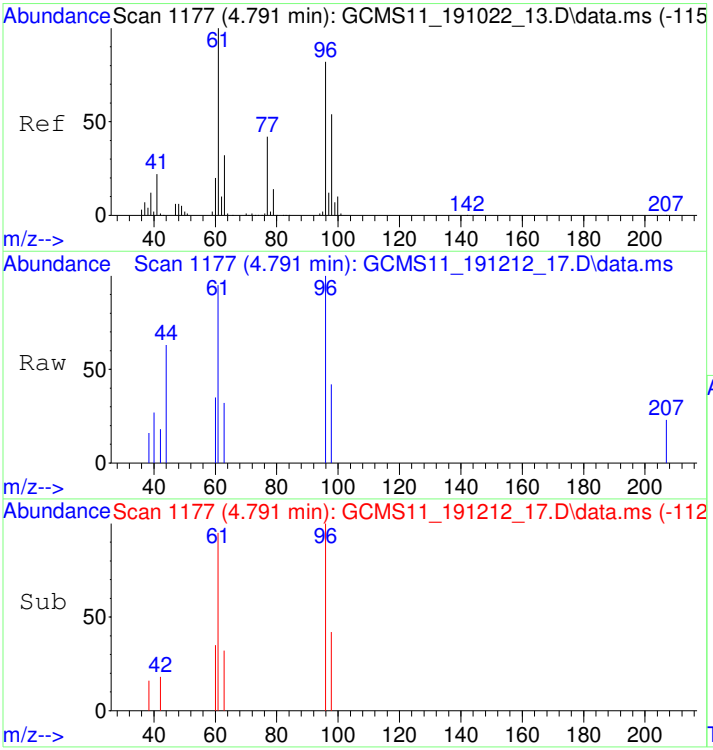


#5
Bromomethane
Concen: 2.62 ng
RT: 1.62 min Scan# 190
Delta R.T. 0.013 min
Lab File: GCMS11_191212_17.D
Acq: 12 Dec 2019 8:19 pm

Tgt Ion: 96 Resp: 779

Ion	Ratio	Lower	Upper
96	100		
94	110.7	74.8	134.8
81	15.5	0.0	42.0

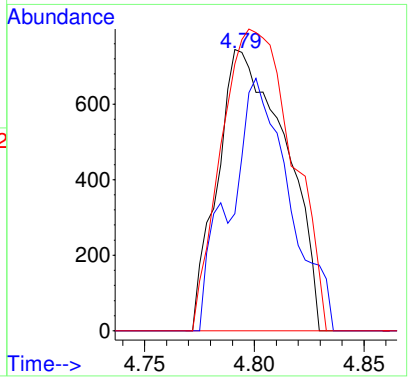


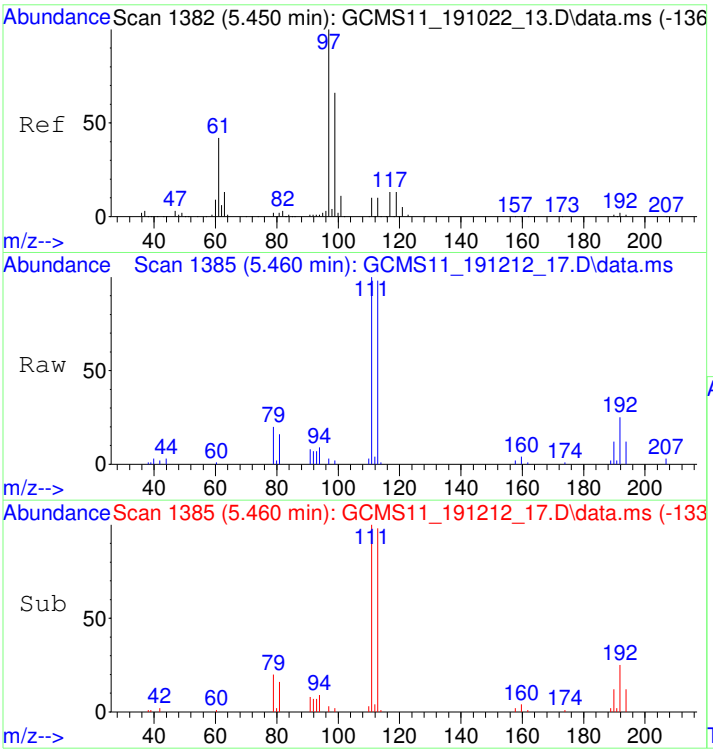


#18
cis-1,2-Dichloroethene
Concen: 3.84 ng
RT: 4.79 min Scan# 1177
Delta R.T. -0.010 min
Lab File: GCMS11_191212_17.D
Acq: 12 Dec 2019 8:19 pm

Tgt Ion: 96 Resp: 1608

Ion	Ratio	Lower	Upper
96	100		
98	78.5	30.6	90.6
61	112.1	96.6	156.6

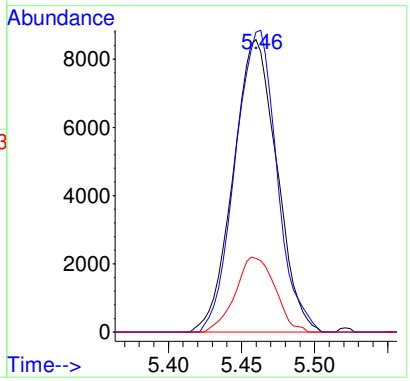


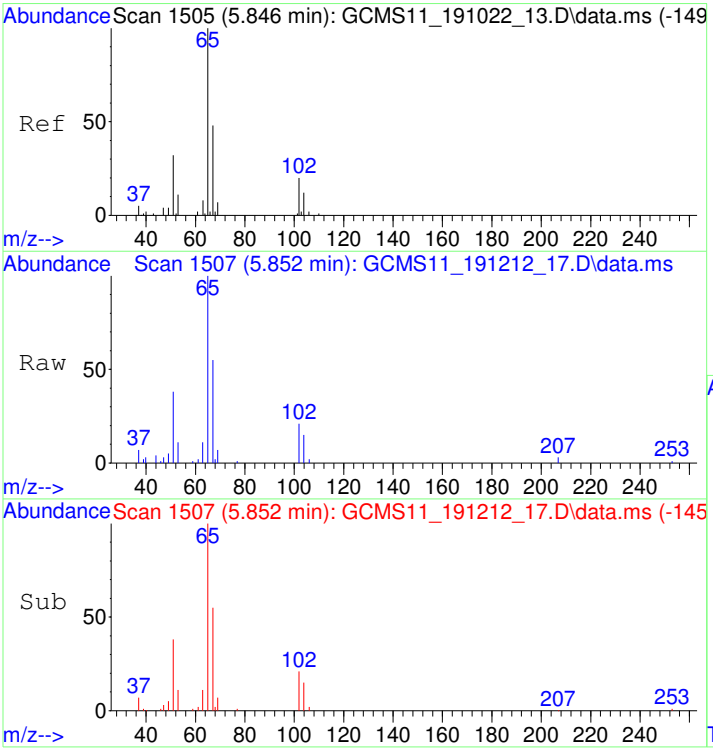


#22
DIBROMOFLUOROMETHANE
Concen: 51.16 ng
RT: 5.46 min Scan# 1385
Delta R.T. 0.000 min
Lab File: GCMS11_191212_17.D
Acq: 12 Dec 2019 8:19 pm

Tgt Ion:113 Resp: 17806

Ion	Ratio	Lower	Upper
113	100		
111	98.3	75.2	135.2
192	23.3	0.0	52.1

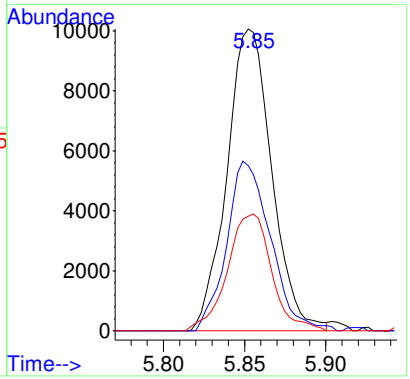


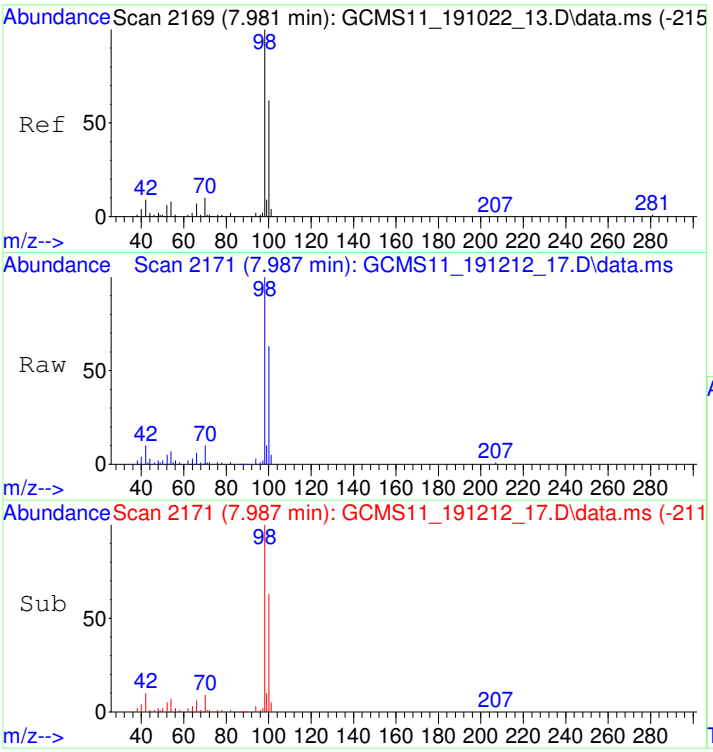


#26
1,2-DICHLOROETHANE-D4
Concen: 46.68 ng
RT: 5.85 min Scan# 1507
Delta R.T. 0.000 min
Lab File: GCMS11_191212_17.D
Acq: 12 Dec 2019 8:19 pm

Tgt Ion: 65 Resp: 19361

Ion	Ratio	Lower	Upper
65	100		
67	54.9	15.4	75.4
51	38.1	2.7	62.7

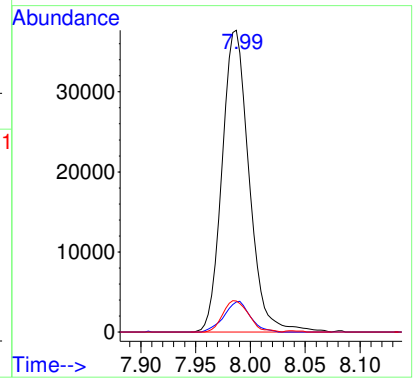


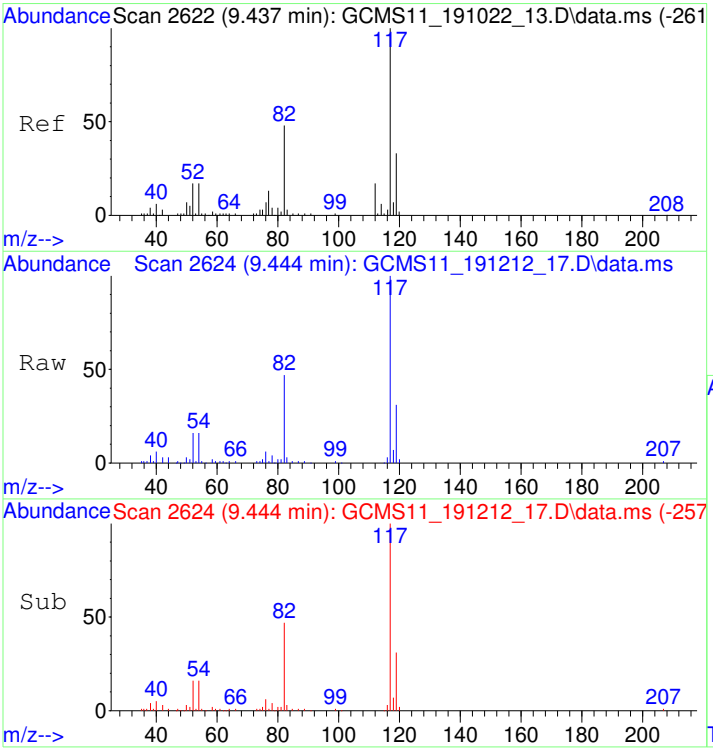


#37
TOLUENE-D8
Concen: 49.75 ng
RT: 7.99 min Scan# 2171
Delta R.T. 0.003 min
Lab File: GCMS11_191212_17.D
Acq: 12 Dec 2019 8:19 pm

Tgt Ion: 98 Resp: 64839

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

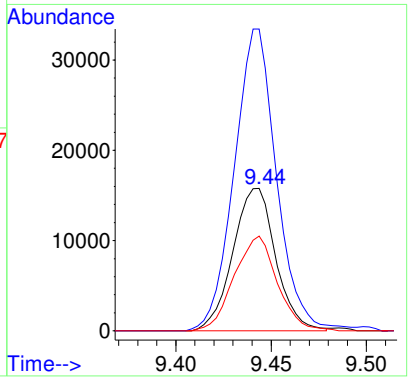


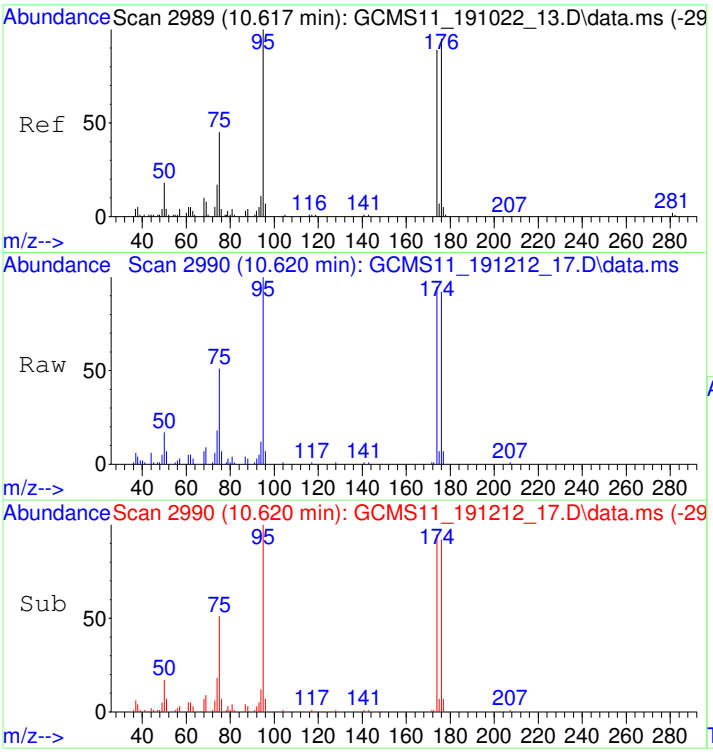


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2624
Delta R.T. 0.004 min
Lab File: GCMS11_191212_17.D
Acq: 12 Dec 2019 8:19 pm

Tgt Ion: 82 Resp: 24724

Ion	Ratio	Lower	Upper
82	100		
117	208.8	160.7	220.7
119	66.7	33.5	93.5

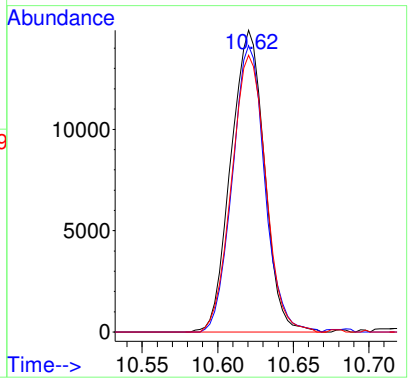


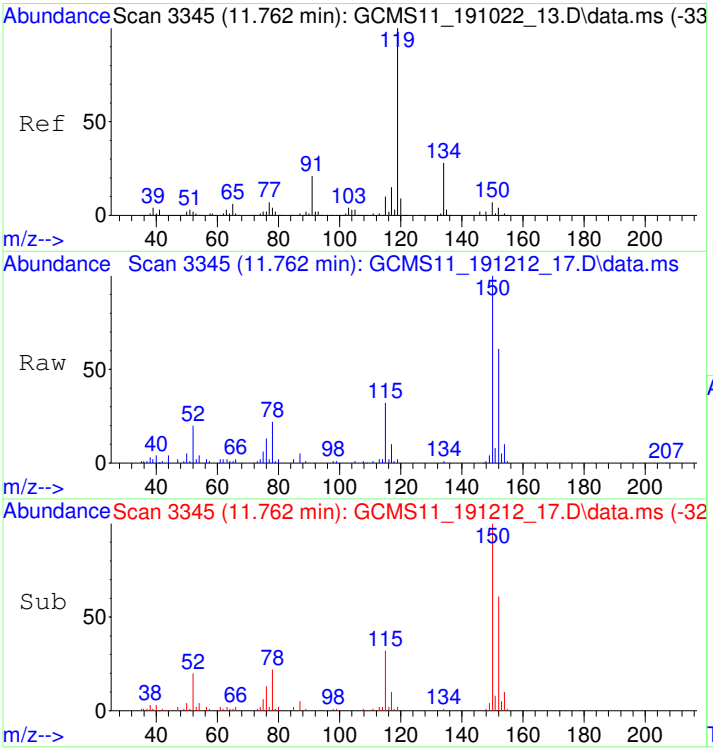


#55
4-BROMOFLUOROBENZENE
Concen: 51.36 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191212_17.D
Acq: 12 Dec 2019 8:19 pm

Tgt Ion: 95 Resp: 23025

Ion	Ratio	Lower	Upper
95	100		
174	91.5	68.5	128.5
176	92.8	66.8	126.8

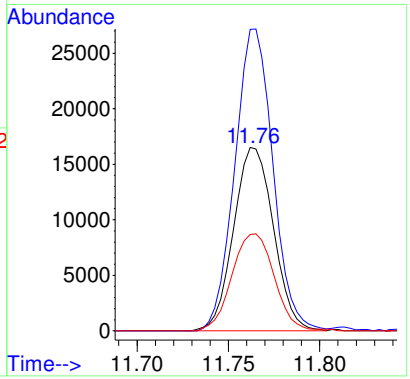




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.76 min Scan# 3345
Delta R.T. -0.003 min
Lab File: GCMS11_191212_17.D
Acq: 12 Dec 2019 8:19 pm

Tgt Ion:152 Resp: 25140

Ion	Ratio	Lower	Upper
152	100		
150	157.3	162.5	222.5#
115	56.1	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_18.D
Acq On : 12 Dec 2019 8:50 pm
Operator : ko
Sample : 1912009-02
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 13 Sample Multiplier: 1

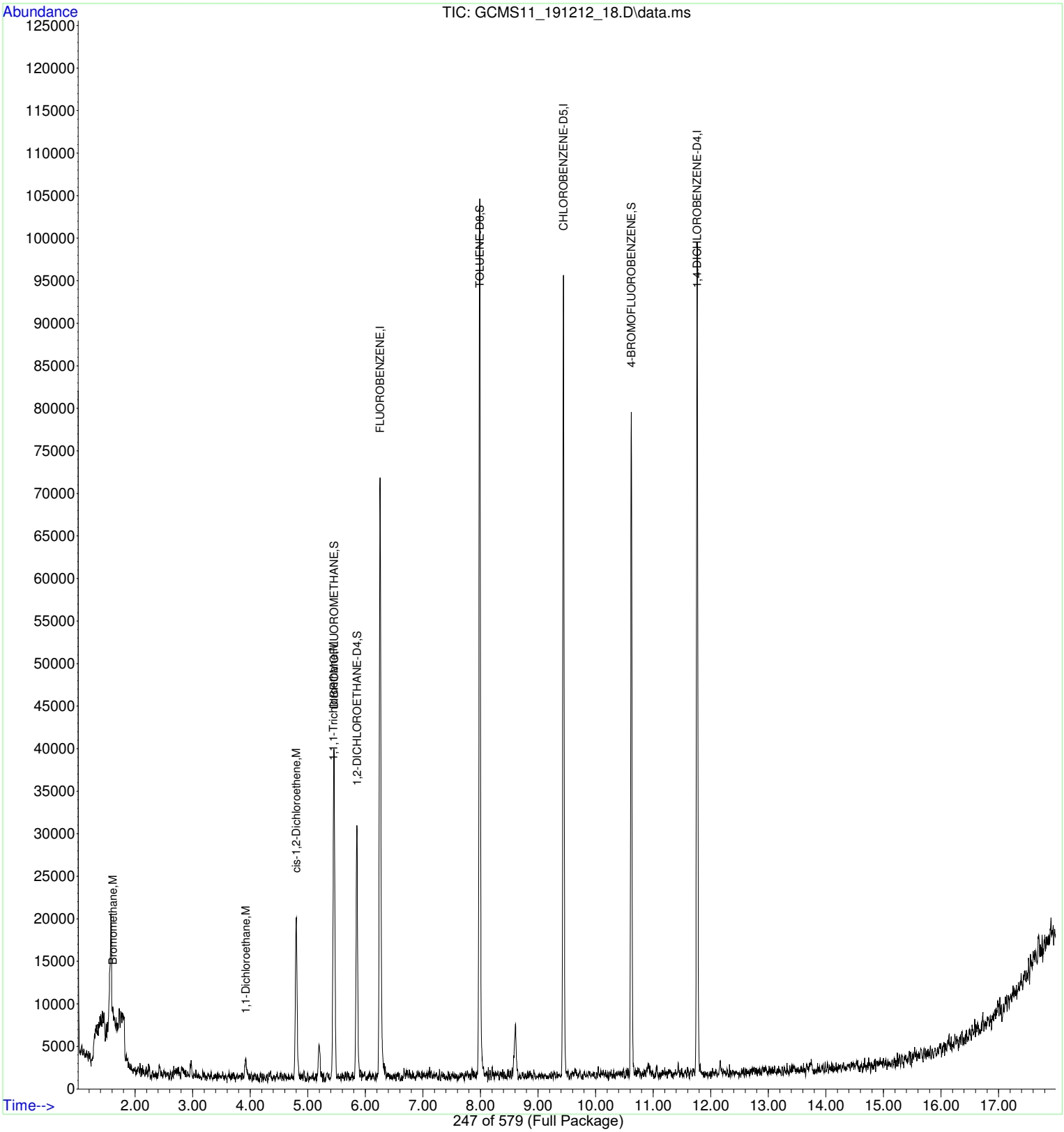
Quant Time: Dec 13 10:41:26 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

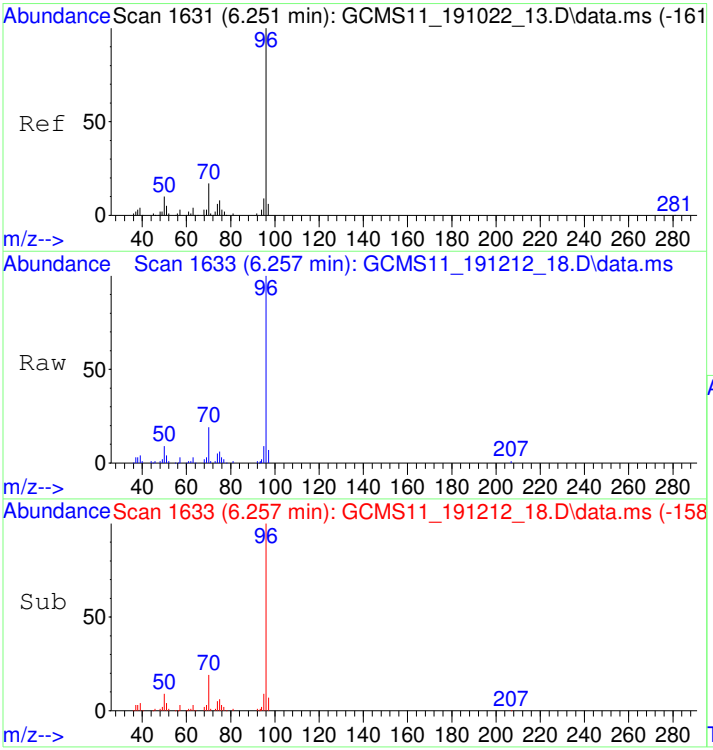
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.26	96	66627	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	24879	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	25887	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.46	113	17559	50.18	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.86	65	19769	47.40	ng	0.00
37) TOLUENE-D8	7.99	98	68808	52.51	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	22791	50.52	ng	0.00
Target Compounds						Qvalue
5) Bromomethane	1.61	96	924	3.09	ng	87
16) 1,1-Dichloroethane	3.92	63	2769	4.30	ng	96
18) cis-1,2-Dichloroethene	4.80	96	9897	23.52	ng	90
23) 1,1,1-Trichloroethane	5.45	97	7779	13.32	ng	94

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_18.D
Acq On : 12 Dec 2019 8:50 pm
Operator : ko
Sample : 1912009-02
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 13 10:41:26 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

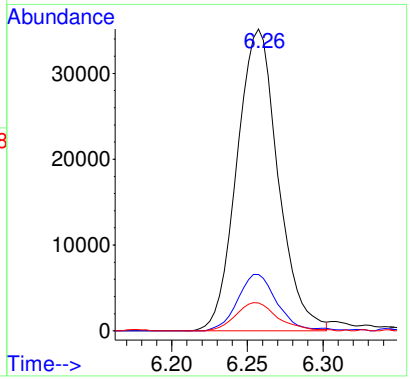


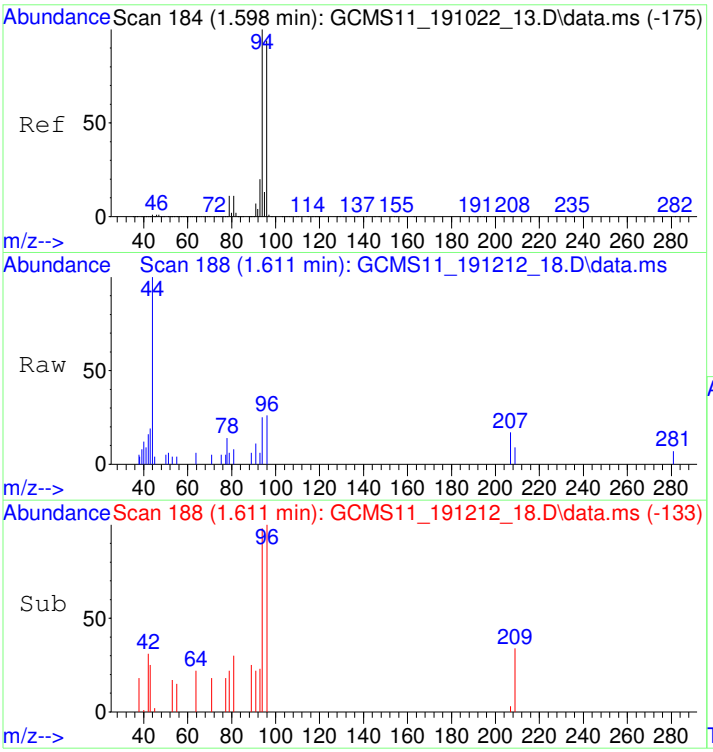


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.26 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191212_18.D
Acq: 12 Dec 2019 8:50 pm

Tgt Ion: 96 Resp: 66627

Ion	Ratio	Lower	Upper
96	100		
70	17.6	0.0	48.3
50	9.5	0.0	39.5

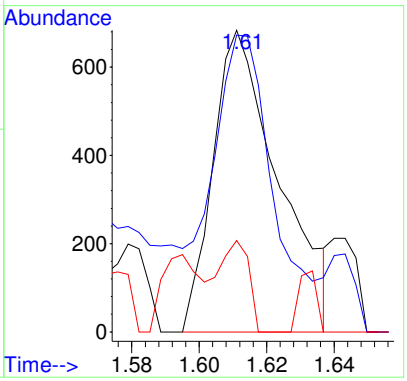


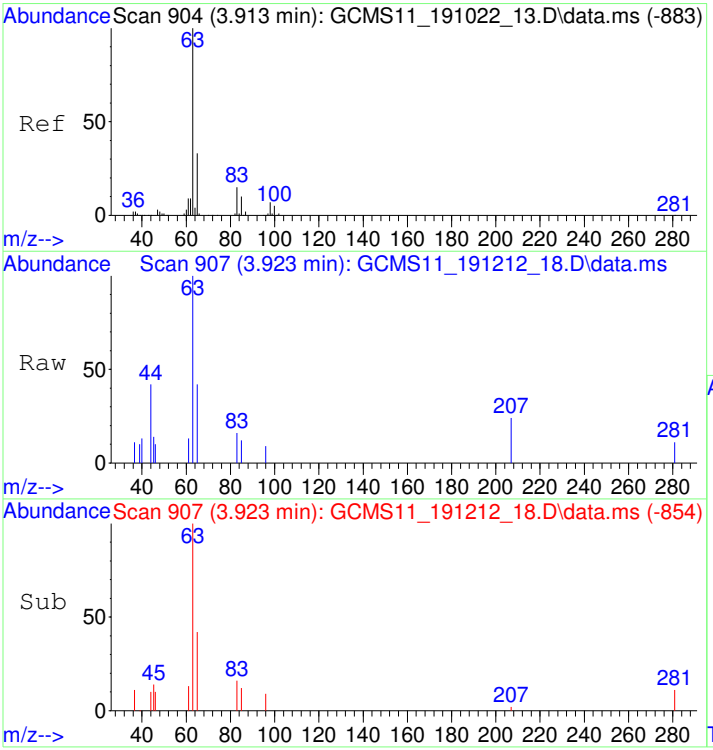


#5
Bromomethane
Concen: 3.09 ng
RT: 1.61 min Scan# 188
Delta R.T. 0.006 min
Lab File: GCMS11_191212_18.D
Acq: 12 Dec 2019 8:50 pm

Tgt Ion: 96 Resp: 924

Ion	Ratio	Lower	Upper
96	100		
94	90.4	74.8	134.8
81	14.1	0.0	42.0

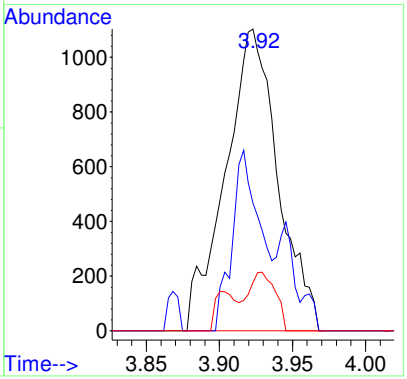


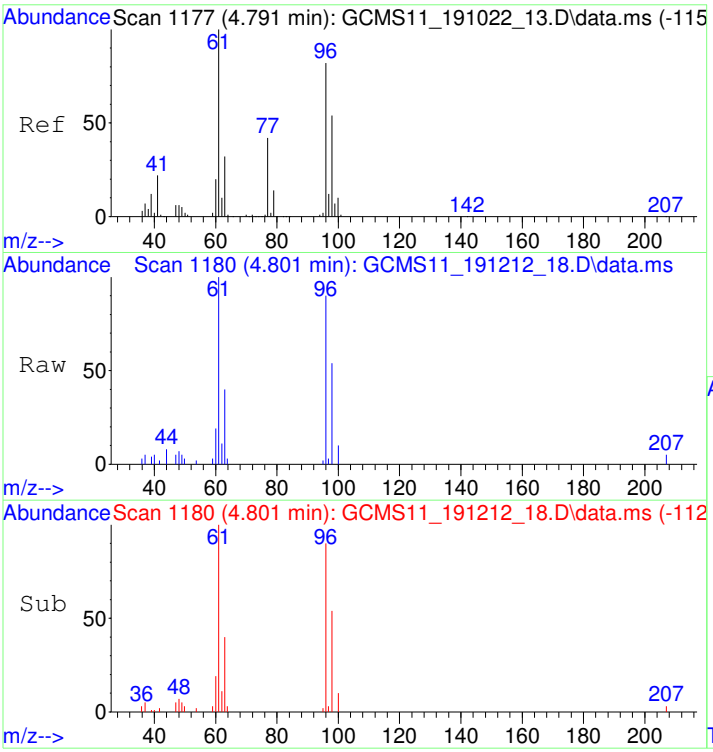


#16
1,1-Dichloroethane
Concen: 4.30 ng
RT: 3.92 min Scan# 907
Delta R.T. -0.000 min
Lab File: GCMS11_191212_18.D
Acq: 12 Dec 2019 8:50 pm

Tgt Ion: 63 Resp: 2769

Ion	Ratio	Lower	Upper
63	100		
65	31.9	2.8	62.8
83	10.1	0.0	44.3

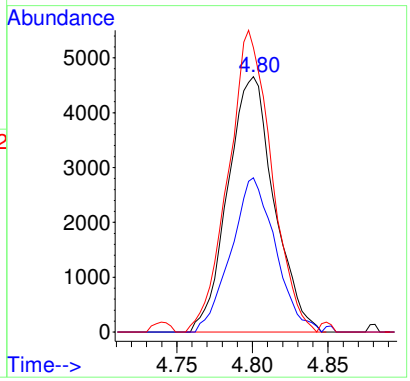


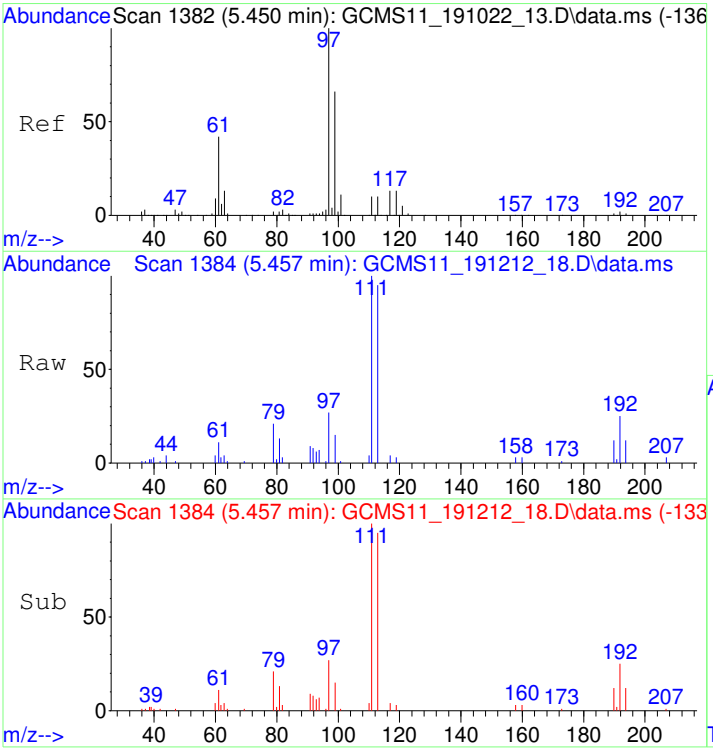


#18
cis-1,2-Dichloroethene
Concen: 23.52 ng
RT: 4.80 min Scan# 1180
Delta R.T. 0.000 min
Lab File: GCMS11_191212_18.D
Acq: 12 Dec 2019 8:50 pm

Tgt Ion: 96 Resp: 9897

Ion	Ratio	Lower	Upper
96	100		
98	58.1	30.6	90.6
61	110.8	96.6	156.6

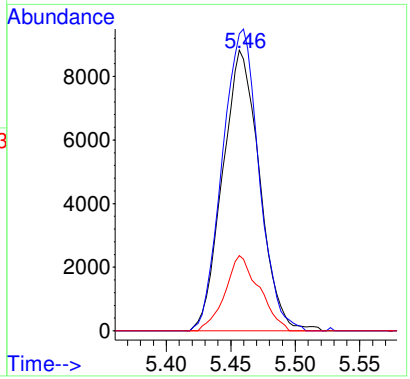


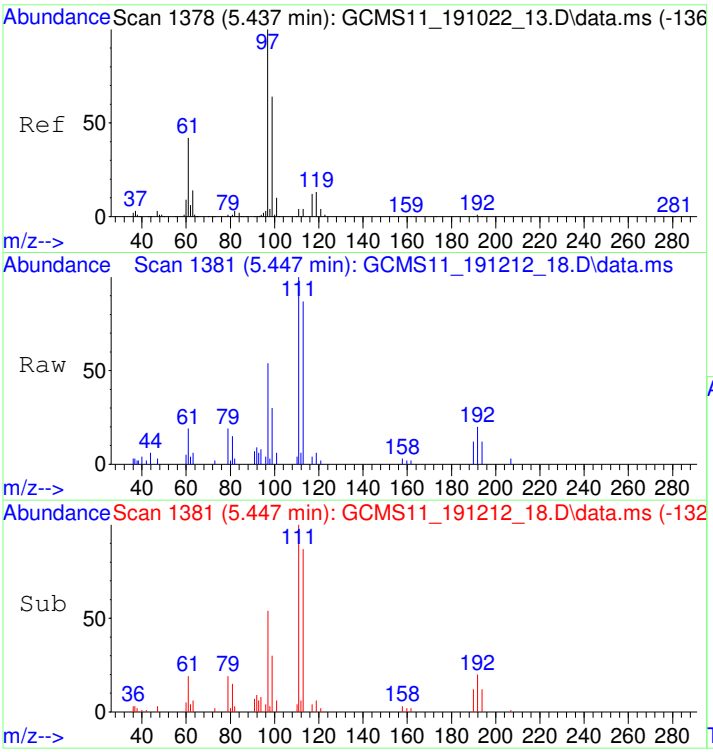


#22
DIBROMOFLUOROMETHANE
Concen: 50.18 ng
RT: 5.46 min Scan# 1384
Delta R.T. -0.003 min
Lab File: GCMS11_191212_18.D
Acq: 12 Dec 2019 8:50 pm

Tgt Ion:113 Resp: 17559

Ion	Ratio	Lower	Upper
113	100		
111	106.5	75.2	135.2
192	24.8	0.0	52.1

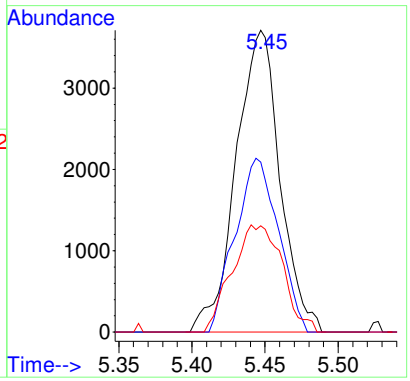


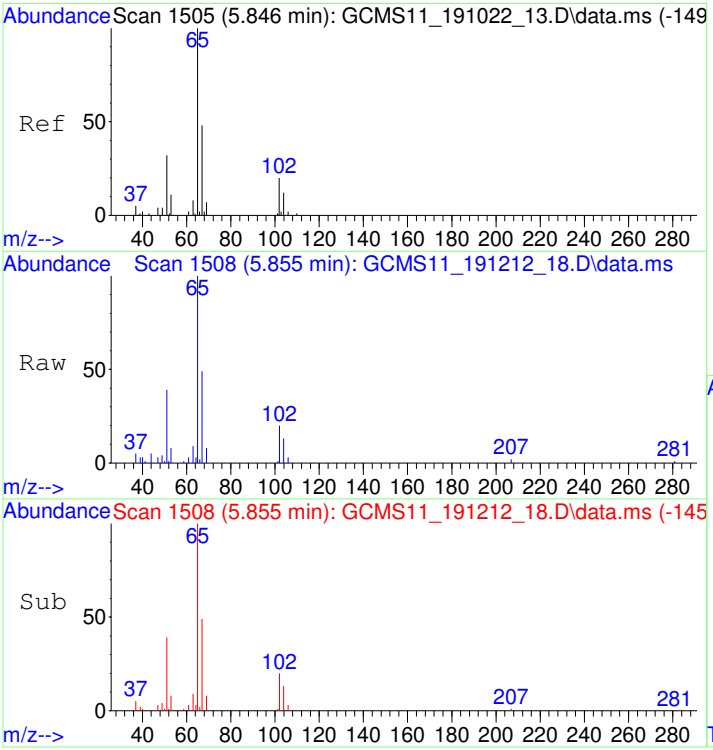


#23
1,1,1-Trichloroethane
Concen: 13.32 ng
RT: 5.45 min Scan# 1381
Delta R.T. 0.003 min
Lab File: GCMS11_191212_18.D
Acq: 12 Dec 2019 8:50 pm

Tgt Ion: 97 Resp: 7779

Ion	Ratio	Lower	Upper
97	100		
99	56.8	32.7	92.7
61	40.6	13.1	73.1

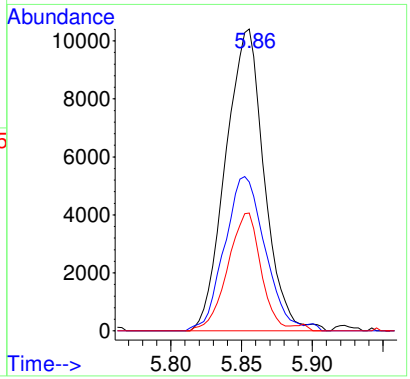


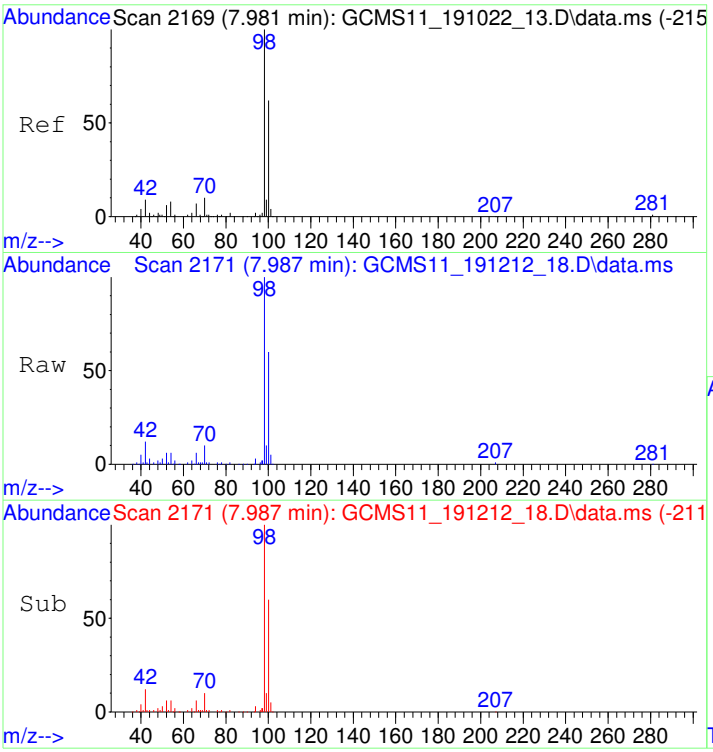


#26
1,2-DICHLOROETHANE-D4
Concen: 47.40 ng
RT: 5.86 min Scan# 1508
Delta R.T. 0.003 min
Lab File: GCMS11_191212_18.D
Acq: 12 Dec 2019 8:50 pm

Tgt Ion: 65 Resp: 19769

Ion	Ratio	Lower	Upper
65	100		
67	53.5	15.4	75.4
51	33.7	2.7	62.7

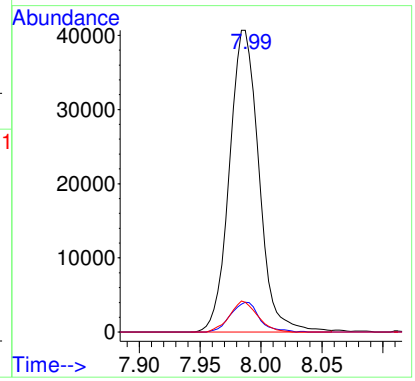


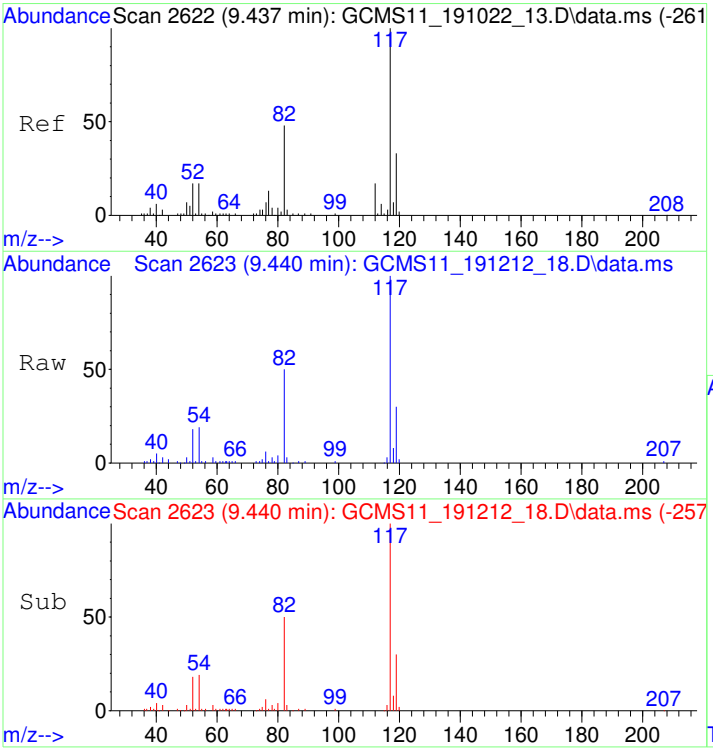


#37
TOLUENE-D8
Concen: 52.51 ng
RT: 7.99 min Scan# 2171
Delta R.T. 0.003 min
Lab File: GCMS11_191212_18.D
Acq: 12 Dec 2019 8:50 pm

Tgt Ion: 98 Resp: 68808

Ion	Ratio	Lower	Upper
98	100		
99	9.6	0.0	39.8
70	9.7	0.0	40.7

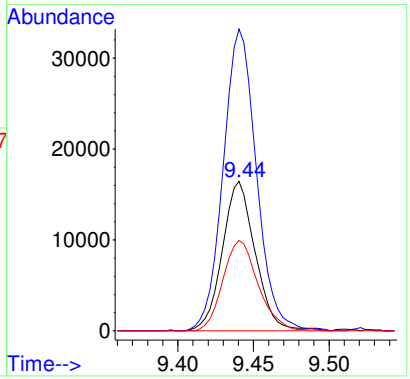


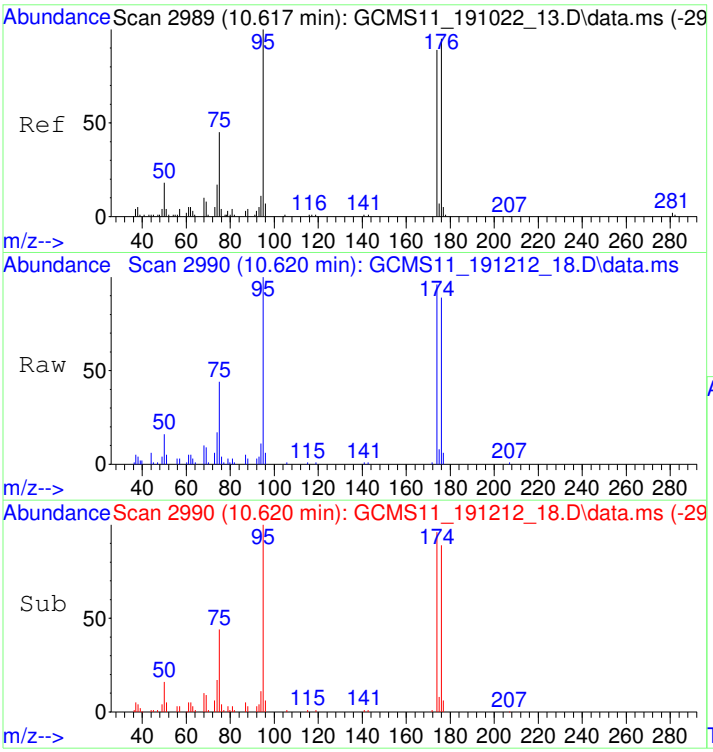


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191212_18.D
Acq: 12 Dec 2019 8:50 pm

Tgt Ion: 82 Resp: 24879

Ion	Ratio	Lower	Upper
82	100		
117	204.6	160.7	220.7
119	64.5	33.5	93.5

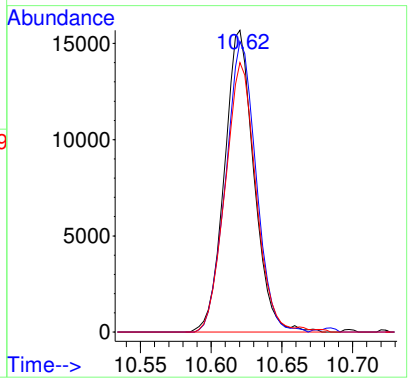


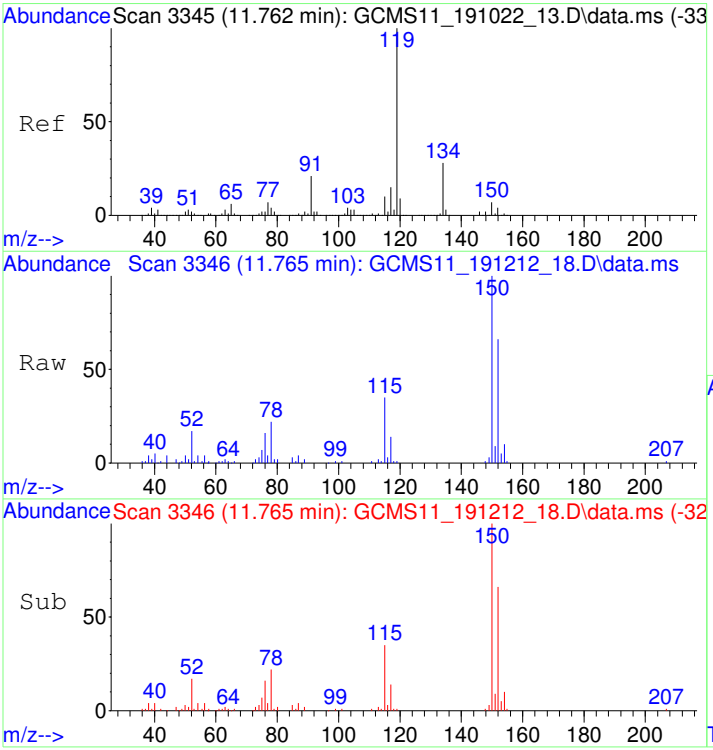


#55
4-BROMOFLUOROBENZENE
Concen: 50.52 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191212_18.D
Acq: 12 Dec 2019 8:50 pm

Tgt Ion: 95 Resp: 22791

Ion	Ratio	Lower	Upper
95	100		
174	98.5	68.5	128.5
176	92.4	66.8	126.8

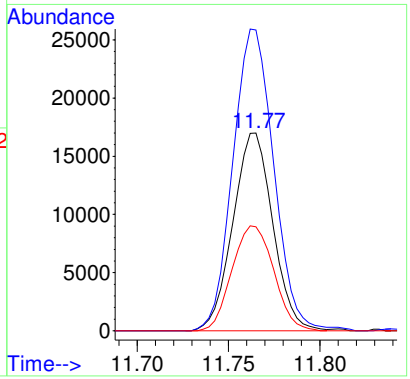




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_18.D
Acq: 12 Dec 2019 8:50 pm

Tgt Ion:152 Resp: 25887

Ion	Ratio	Lower	Upper
152	100		
150	156.3	162.5	222.5#
115	55.3	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_19.D
Acq On : 12 Dec 2019 9:21 pm
Operator : ko
Sample : 1912009-03
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 14 Sample Multiplier: 1

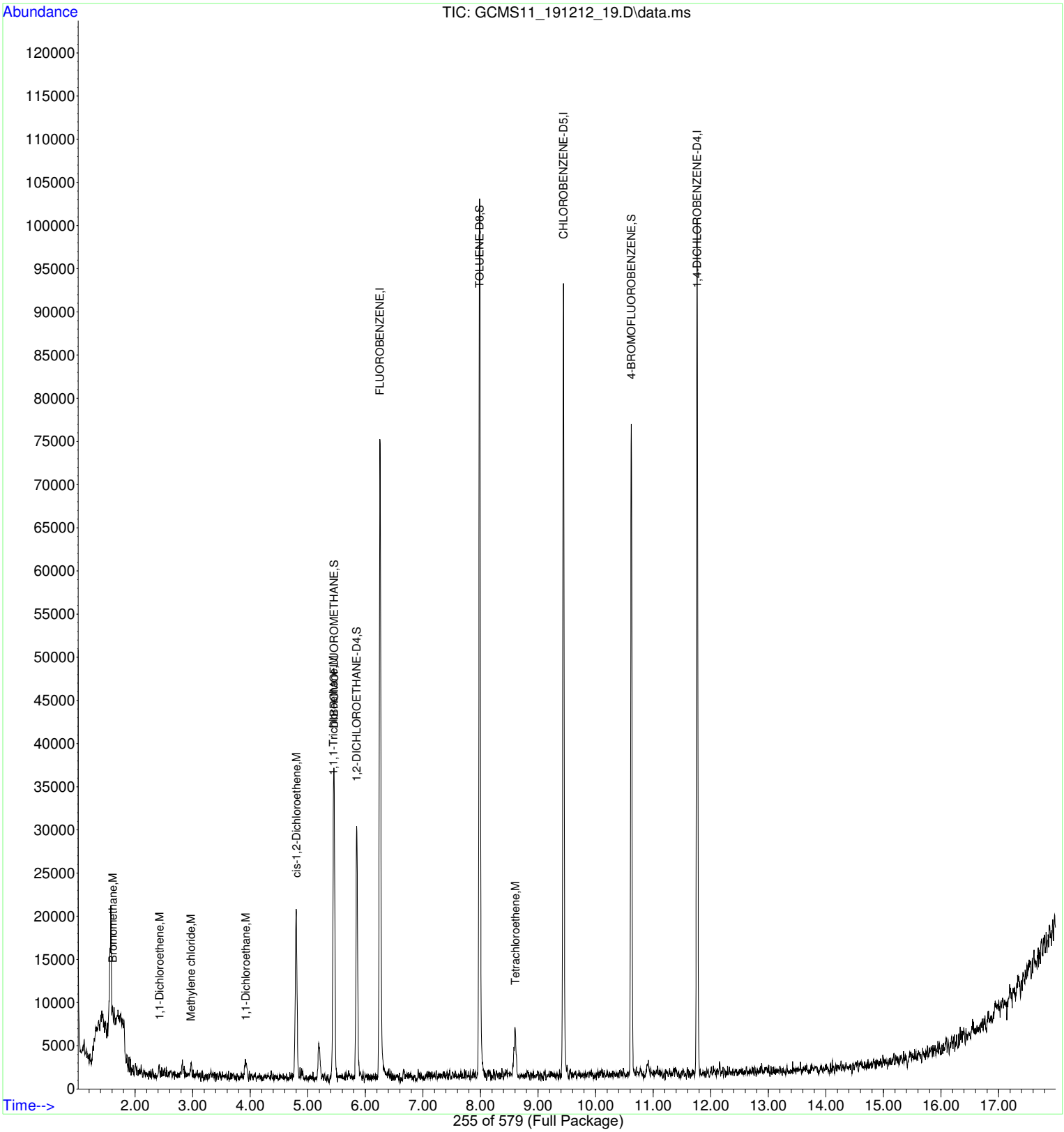
Quant Time: Dec 13 10:43:13 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

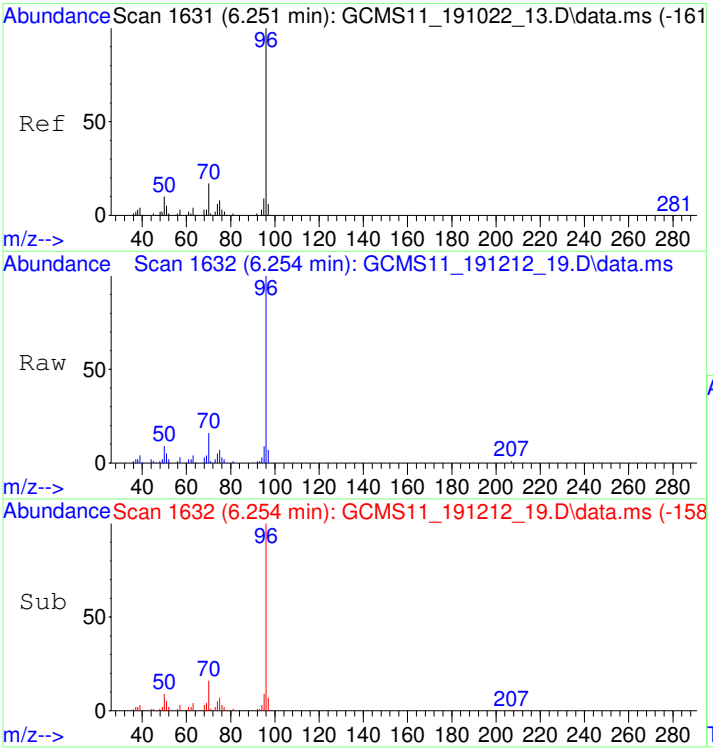
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.25	96	67881	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	25140	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	26290	50.00	ng		# 0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.46	113	16881	47.35	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	19487	45.86	ng		0.00
37) TOLUENE-D8	7.98	98	68496	51.31	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	21971	48.20	ng		0.00
Target Compounds							Qvalue
5) Bromomethane	1.61	96	761	2.49	ng	#	76
9) 1,1-Dichloroethene	2.42	96	565	1.60	ng	#	62
12) Methylene chloride	2.97	84	575	1.35	ng	#	75
16) 1,1-Dichloroethane	3.92	63	2608	3.98	ng		76
18) cis-1,2-Dichloroethene	4.80	96	10119	23.61	ng		91
23) 1,1,1-Trichloroethane	5.44	97	7049	11.85	ng		93
42) Tetrachloroethene	8.60	164	599	1.89	ng	#	70

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_19.D
Acq On : 12 Dec 2019 9:21 pm
Operator : ko
Sample : 1912009-03
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 13 10:43:13 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

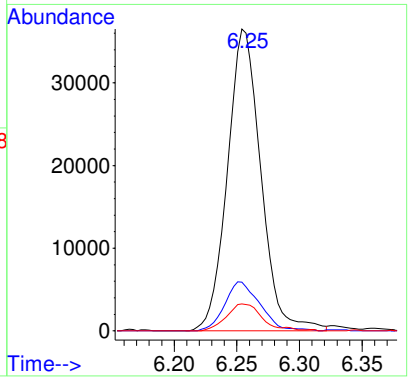


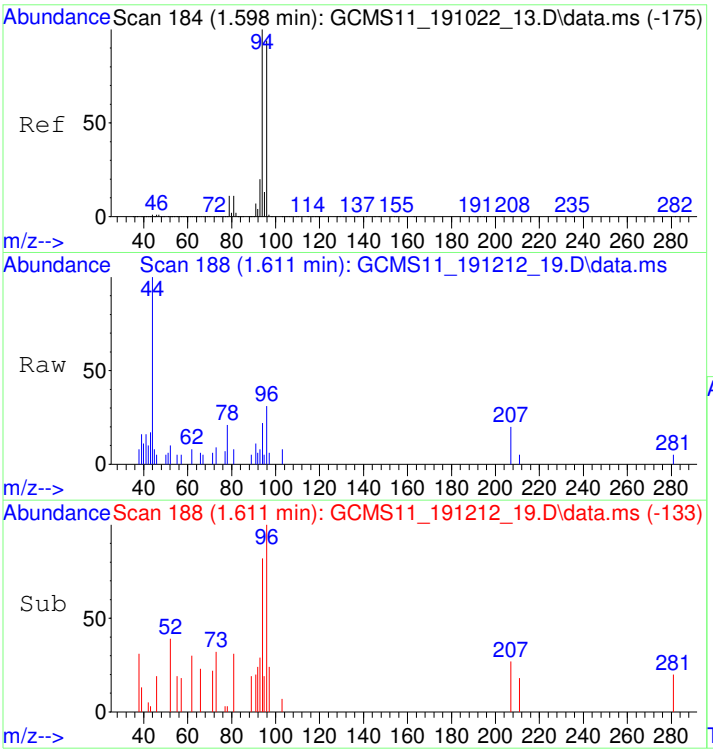


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191212_19.D
Acq: 12 Dec 2019 9:21 pm

Tgt Ion: 96 Resp: 67881

Ion	Ratio	Lower	Upper
96	100		
70	17.1	0.0	48.3
50	9.1	0.0	39.5

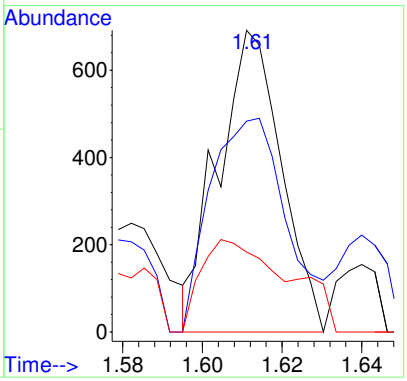


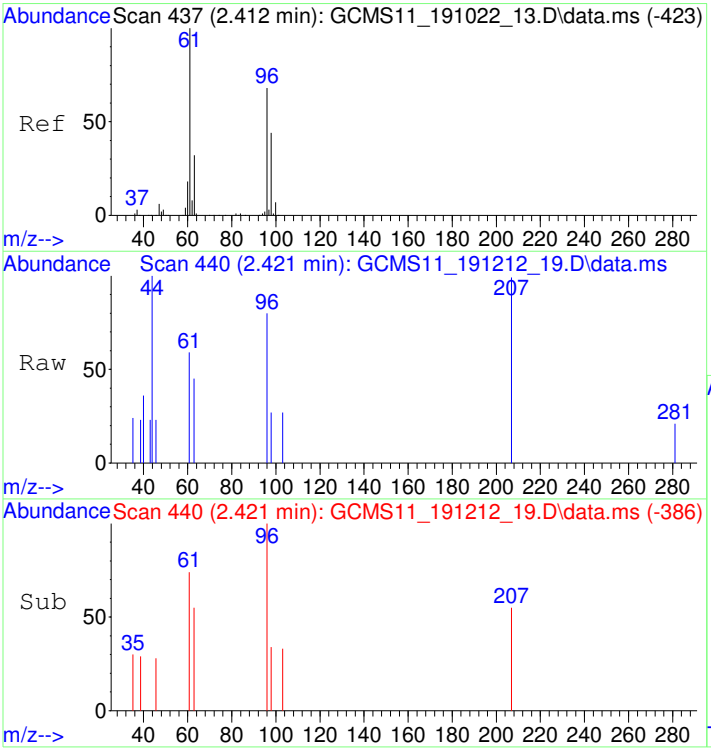


#5
Bromomethane
Concen: 2.49 ng
RT: 1.61 min Scan# 188
Delta R.T. 0.006 min
Lab File: GCMS11_191212_19.D
Acq: 12 Dec 2019 9:21 pm

Tgt Ion: 96 Resp: 761

Ion	Ratio	Lower	Upper
96	100		
94	86.6	74.8	134.8
81	42.3	0.0	42.0#

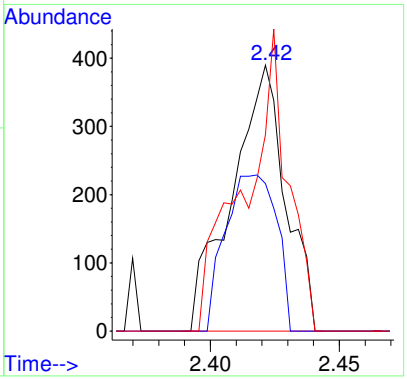


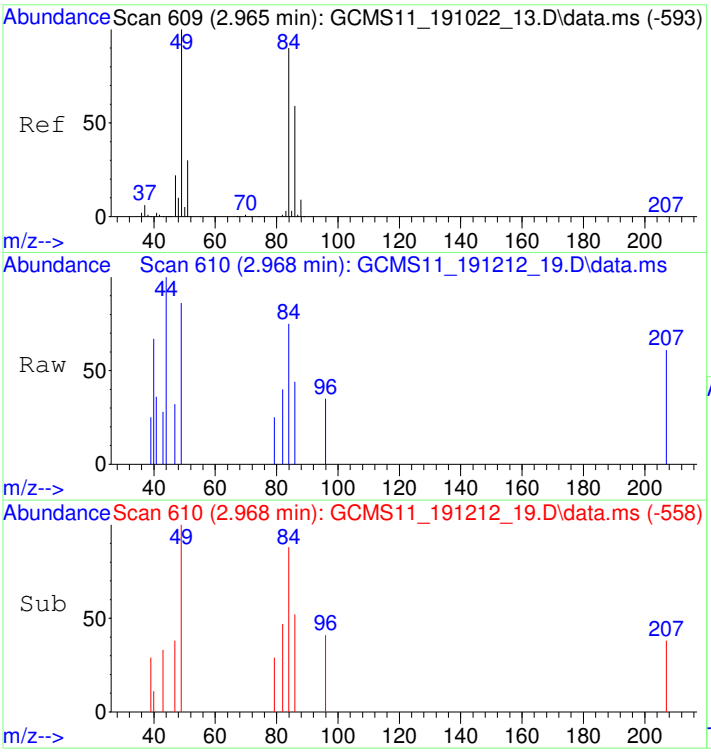


#9
1,1-Dichloroethene
Concen: 1.60 ng
RT: 2.42 min Scan# 440
Delta R.T. 0.003 min
Lab File: GCMS11_191212_19.D
Acq: 12 Dec 2019 9:21 pm

Tgt Ion: 96 Resp: 565

Ion	Ratio	Lower	Upper
96	100		
63	55.9	20.7	80.7
61	92.7	123.9	183.9#

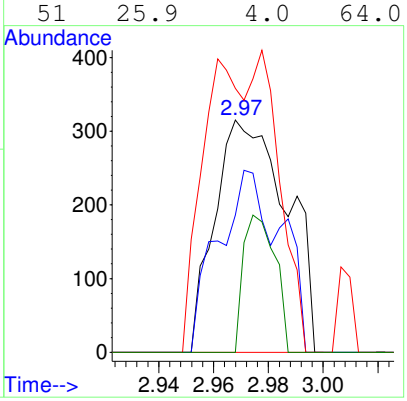


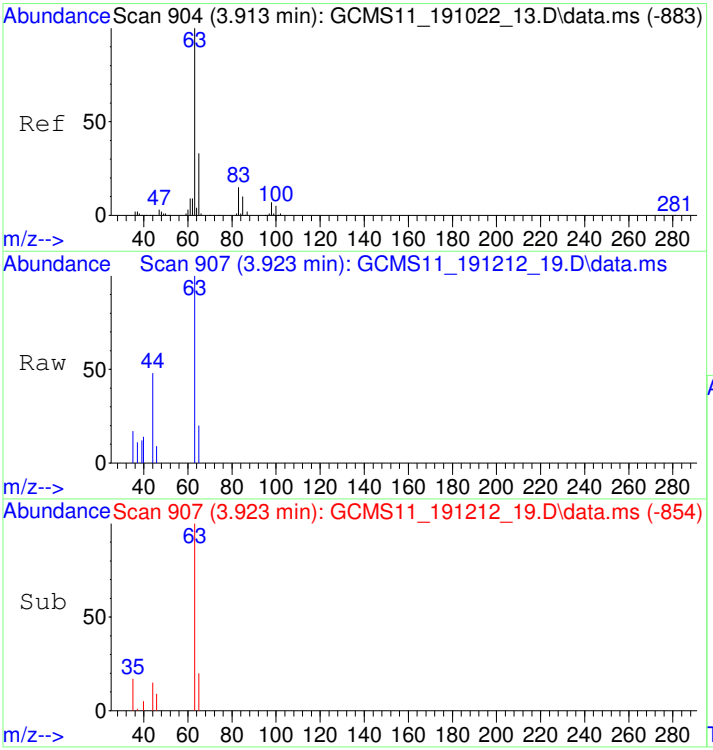


#12
Methylene chloride
Concen: 1.35 ng
RT: 2.97 min Scan# 610
Delta R.T. -0.003 min
Lab File: GCMS11_191212_19.D
Acq: 12 Dec 2019 9:21 pm

Tgt Ion: 84 Resp: 575

Ion	Ratio	Lower	Upper
84	100		
86	52.0	35.2	95.2
49	73.7	78.3	138.3#
51	25.9	4.0	64.0

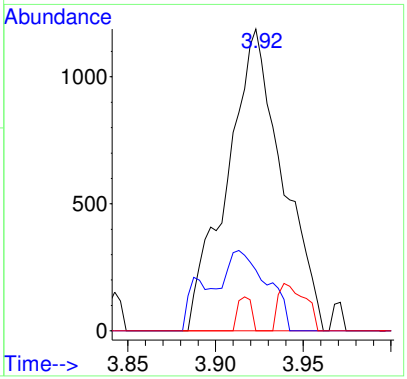


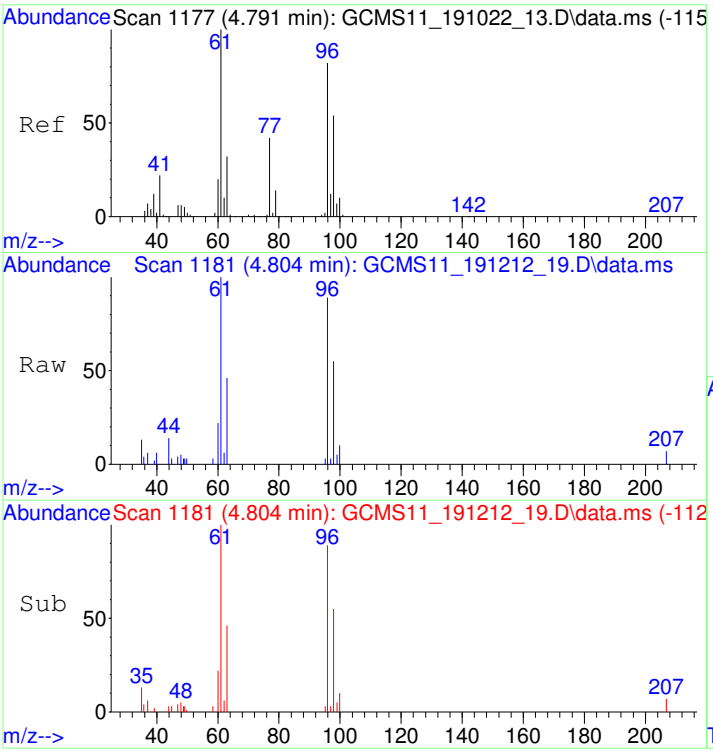


#16
1,1-Dichloroethane
Concen: 3.98 ng
RT: 3.92 min Scan# 907
Delta R.T. -0.000 min
Lab File: GCMS11_191212_19.D
Acq: 12 Dec 2019 9:21 pm

Tgt Ion: 63 Resp: 2608

Ion	Ratio	Lower	Upper
63	100		
65	20.0	2.8	62.8
83	2.8	0.0	44.3

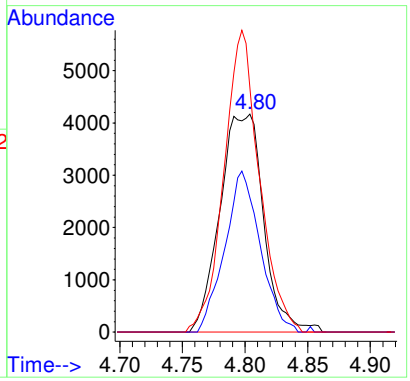


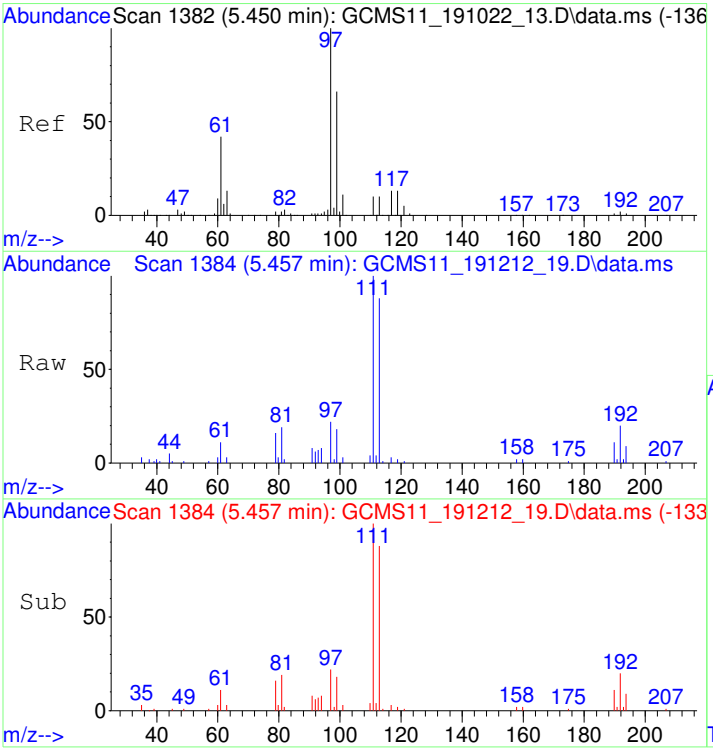


#18
cis-1,2-Dichloroethene
Concen: 23.61 ng
RT: 4.80 min Scan# 1181
Delta R.T. 0.003 min
Lab File: GCMS11_191212_19.D
Acq: 12 Dec 2019 9:21 pm

Tgt Ion: 96 Resp: 10119

Ion	Ratio	Lower	Upper
96	100		
98	59.9	30.6	90.6
61	112.1	96.6	156.6

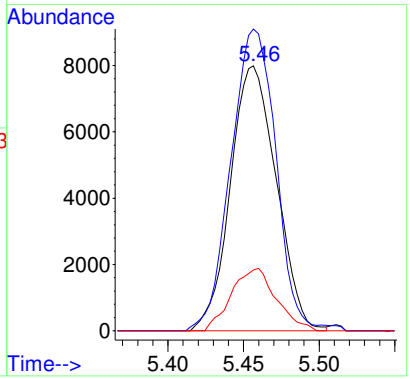


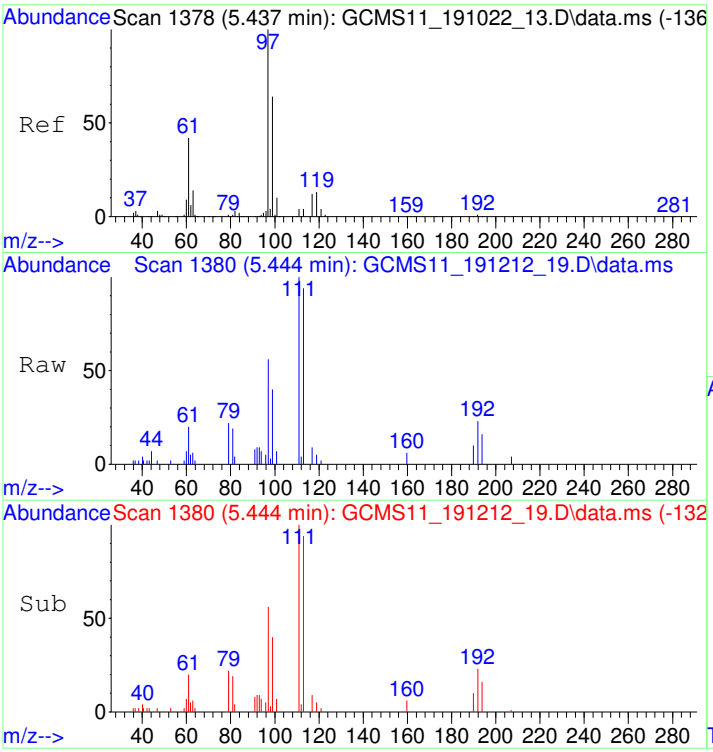


#22
DIBROMOFLUOROMETHANE
Concen: 47.35 ng
RT: 5.46 min Scan# 1384
Delta R.T. -0.003 min
Lab File: GCMS11_191212_19.D
Acq: 12 Dec 2019 9:21 pm

Tgt Ion:113 Resp: 16881

Ion	Ratio	Lower	Upper
113	100		
111	112.0	75.2	135.2
192	23.0	0.0	52.1

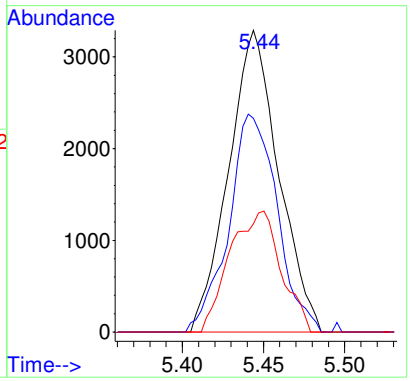


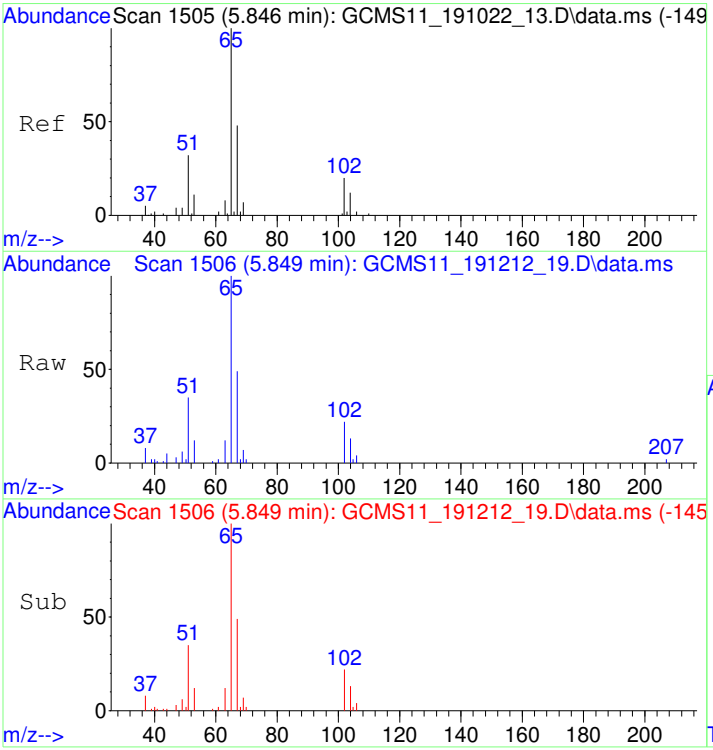


#23
1,1,1-Trichloroethane
Concen: 11.85 ng
RT: 5.44 min Scan# 1380
Delta R.T. -0.000 min
Lab File: GCMS11_191212_19.D
Acq: 12 Dec 2019 9:21 pm

Tgt Ion: 97 Resp: 7049

Ion	Ratio	Lower	Upper
97	100		
99	69.9	32.7	92.7
61	41.1	13.1	73.1

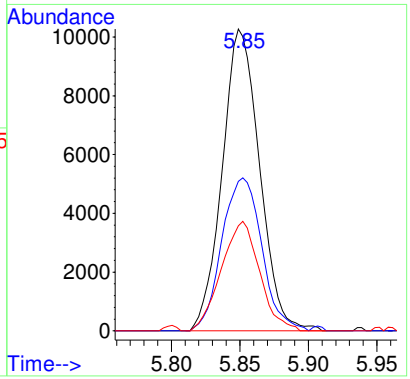


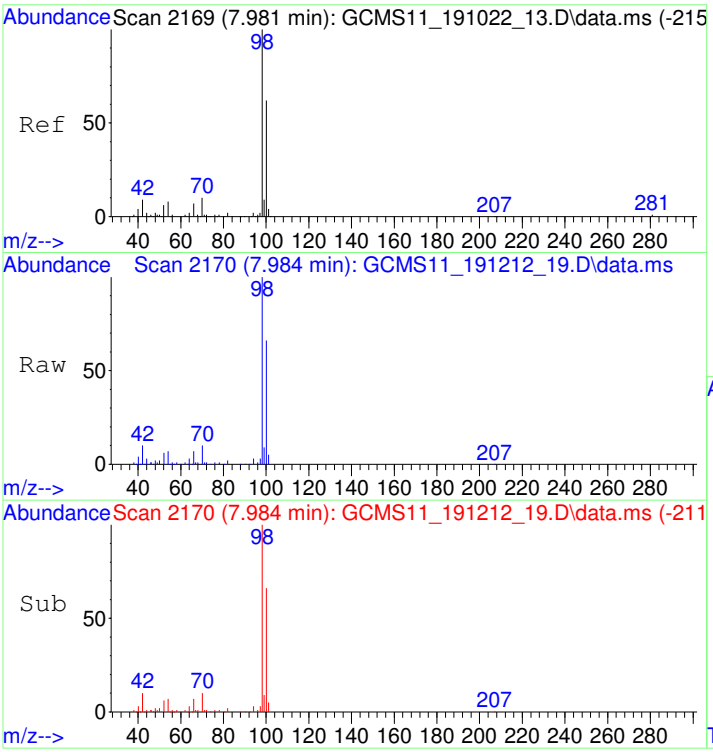


#26
1,2-DICHLOROETHANE-D4
Concen: 45.86 ng
RT: 5.85 min Scan# 1506
Delta R.T. -0.003 min
Lab File: GCMS11_191212_19.D
Acq: 12 Dec 2019 9:21 pm

Tgt Ion: 65 Resp: 19487

Ion	Ratio	Lower	Upper
65	100		
67	54.2	15.4	75.4
51	37.1	2.7	62.7

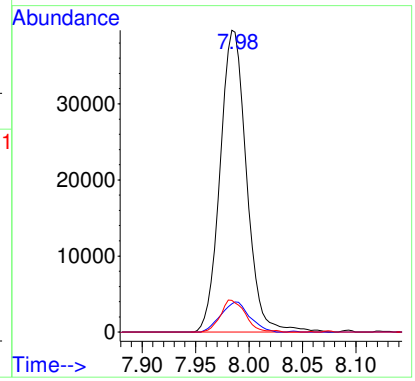


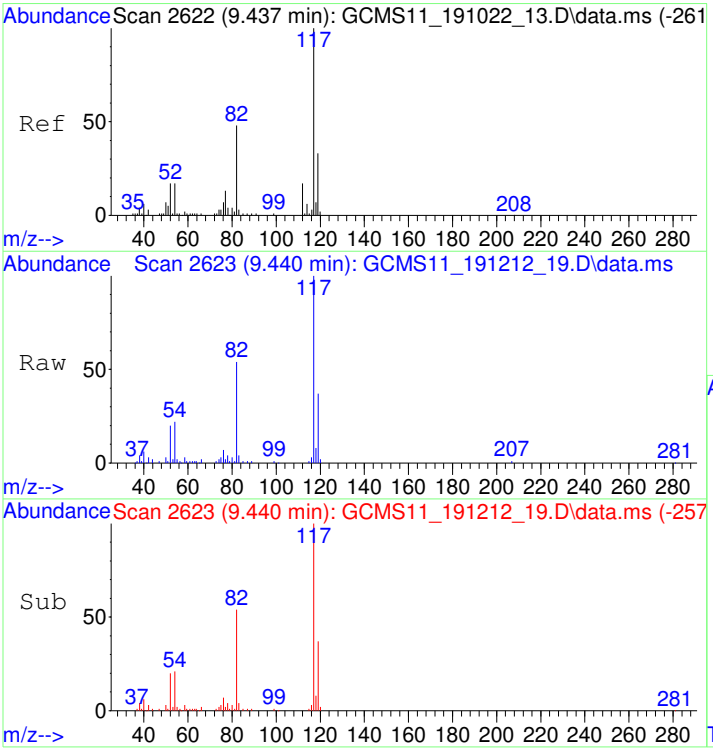


#37
TOLUENE-D8
Concen: 51.31 ng
RT: 7.98 min Scan# 2170
Delta R.T. -0.000 min
Lab File: GCMS11_191212_19.D
Acq: 12 Dec 2019 9:21 pm

Tgt Ion: 98 Resp: 68496

Ion	Ratio	Lower	Upper
98	100		
99	10.8	0.0	39.8
70	9.9	0.0	40.7

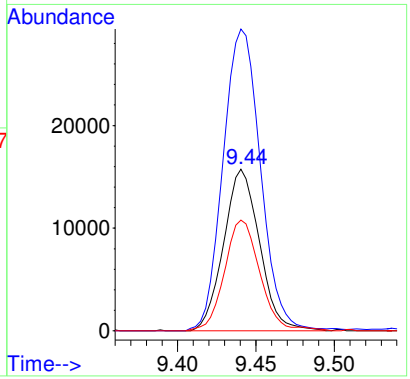


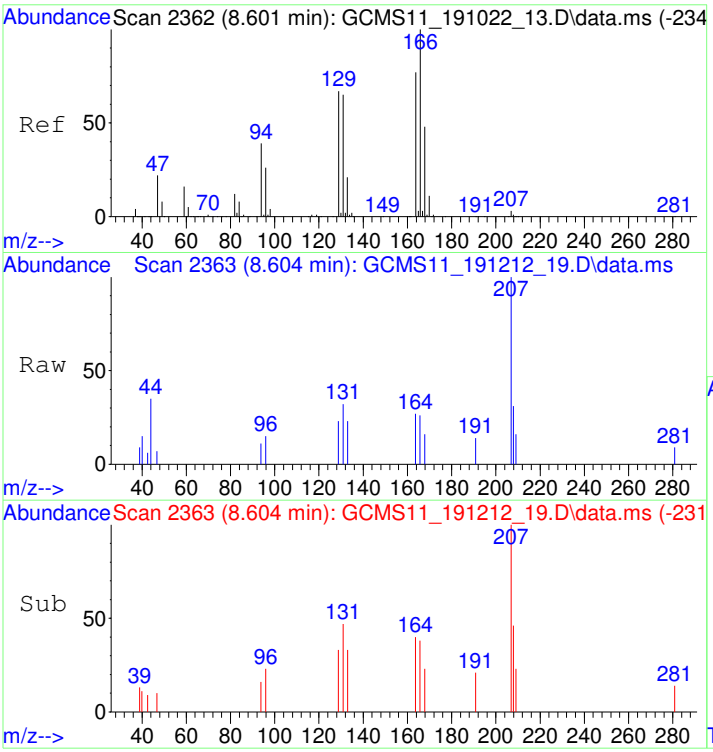


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191212_19.D
Acq: 12 Dec 2019 9:21 pm

Tgt Ion: 82 Resp: 25140

Ion	Ratio	Lower	Upper
82	100		
117	194.5	160.7	220.7
119	67.6	33.5	93.5

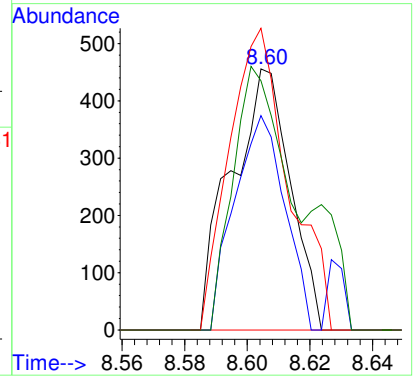


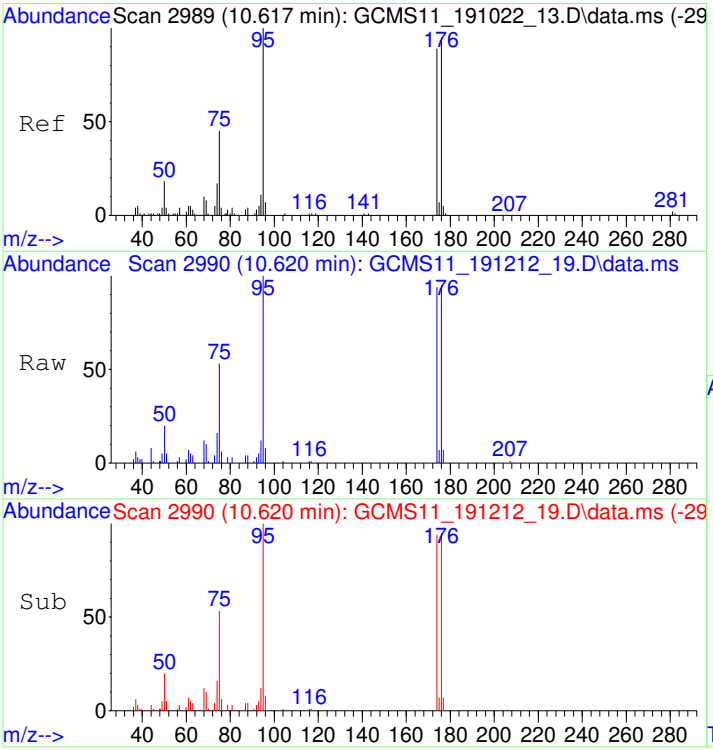


#42
Tetrachloroethene
Concen: 1.89 ng
RT: 8.60 min Scan# 2363
Delta R.T. 0.000 min
Lab File: GCMS11_191212_19.D
Acq: 12 Dec 2019 9:21 pm

Tgt Ion:164 Resp: 599

Ion	Ratio	Lower	Upper
164	100		
129	69.9	57.5	117.5
131	115.9	55.8	115.8#
166	87.8	99.4	159.4#

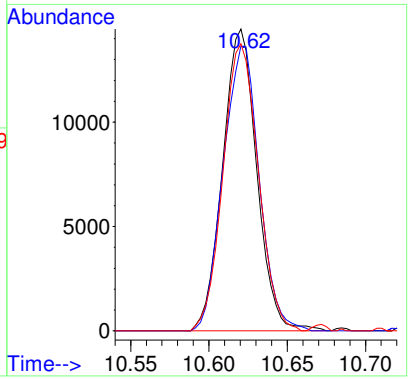


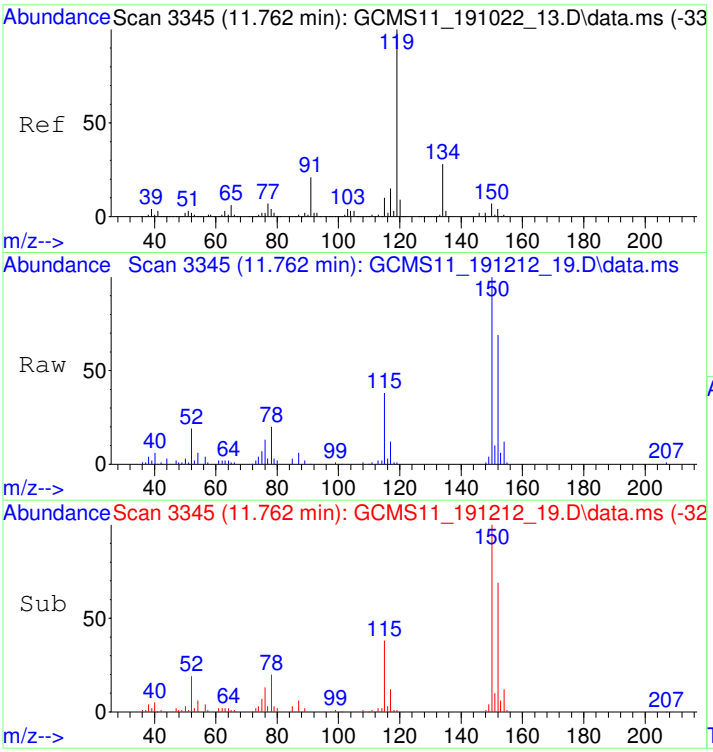


#55
4-BROMOFLUOROBENZENE
Concen: 48.20 ng
RT: 10.62 min Scan# 2990
Delta R.T. -0.000 min
Lab File: GCMS11_191212_19.D
Acq: 12 Dec 2019 9:21 pm

Tgt Ion: 95 Resp: 21971

Ion	Ratio	Lower	Upper
95	100		
174	99.4	68.5	128.5
176	98.0	66.8	126.8

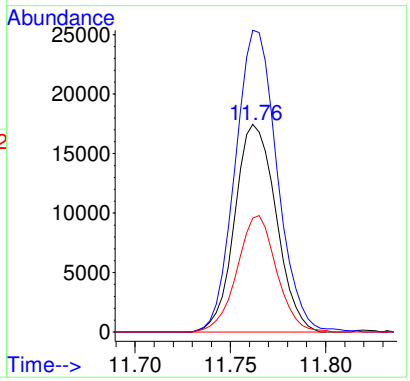




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.76 min Scan# 3345
Delta R.T. -0.003 min
Lab File: GCMS11_191212_19.D
Acq: 12 Dec 2019 9:21 pm

Tgt Ion:152 Resp: 26290

Ion	Ratio	Lower	Upper
152	100		
150	148.1	162.5	222.5#
115	53.7	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_20.D
Acq On : 12 Dec 2019 9:52 pm
Operator : ko
Sample : 1912009-04
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 15 Sample Multiplier: 1

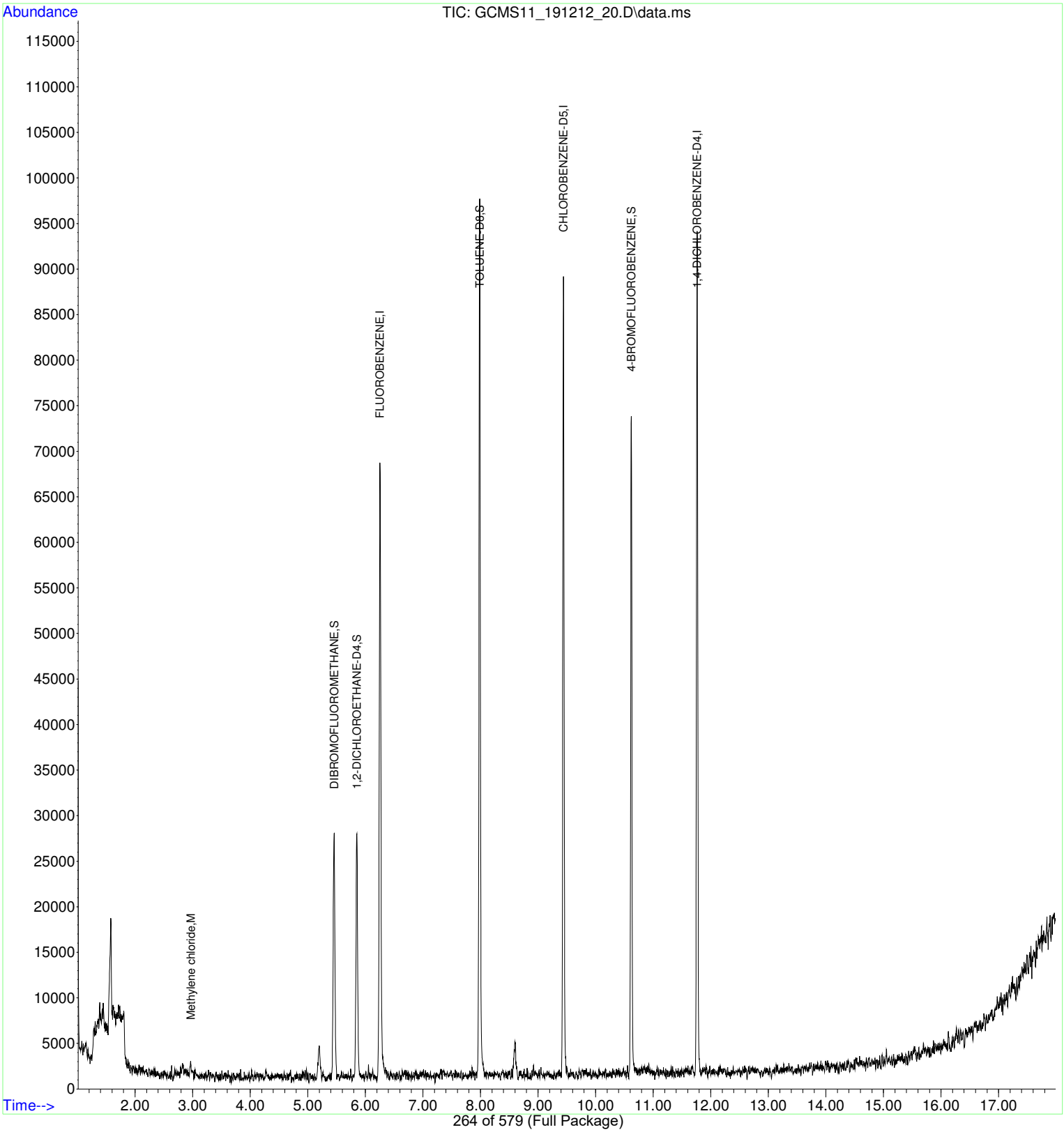
Quant Time: Dec 13 10:45:58 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

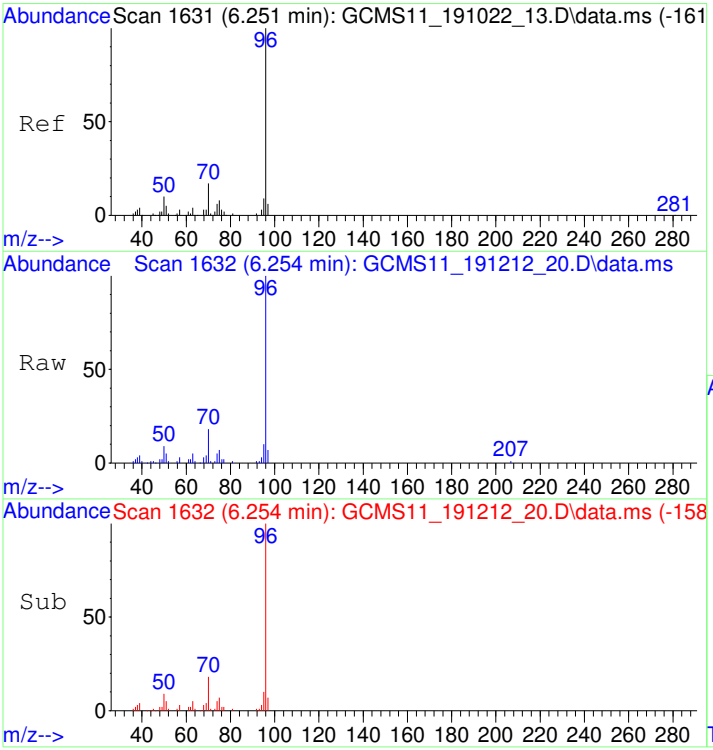
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.25	96	63666	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	24272	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	24875	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.46	113	15822	47.32	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	19392	48.66	ng	0.00
37) TOLUENE-D8	7.99	98	62148	49.63	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	20445	46.46	ng	0.00
Target Compounds						Qvalue
12) Methylene chloride	2.97	84	458	1.14	ng	# 73

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_20.D
Acq On : 12 Dec 2019 9:52 pm
Operator : ko
Sample : 1912009-04
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 13 10:45:58 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

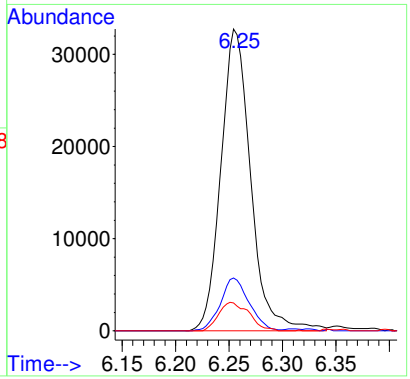


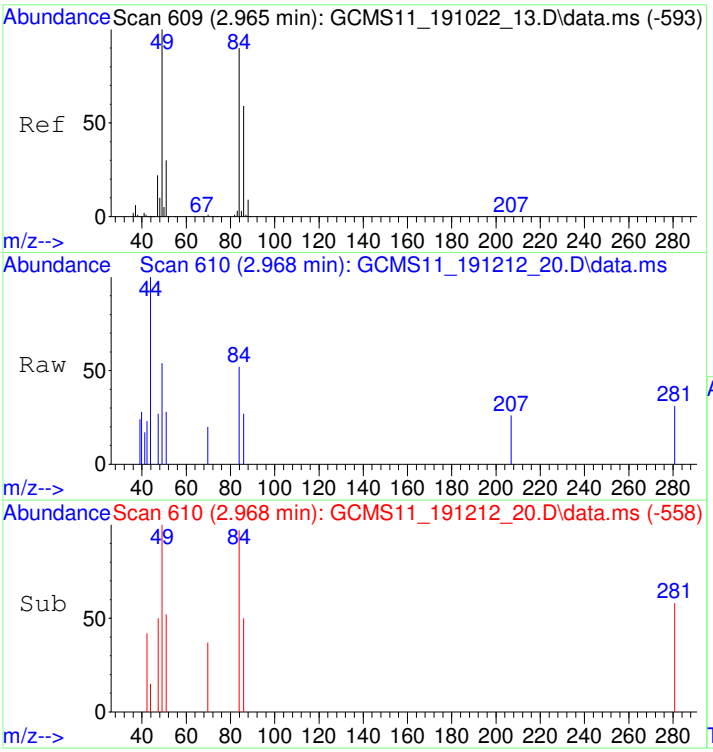


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191212_20.D
Acq: 12 Dec 2019 9:52 pm

Tgt Ion: 96 Resp: 63666

Ion	Ratio	Lower	Upper
96	100		
70	16.9	0.0	48.3
50	9.7	0.0	39.5

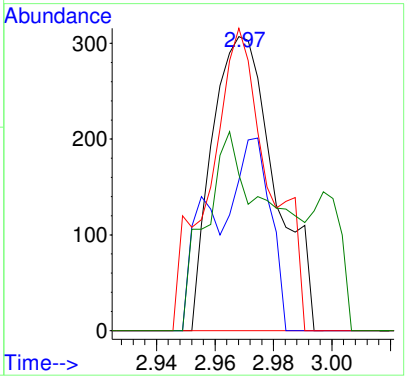


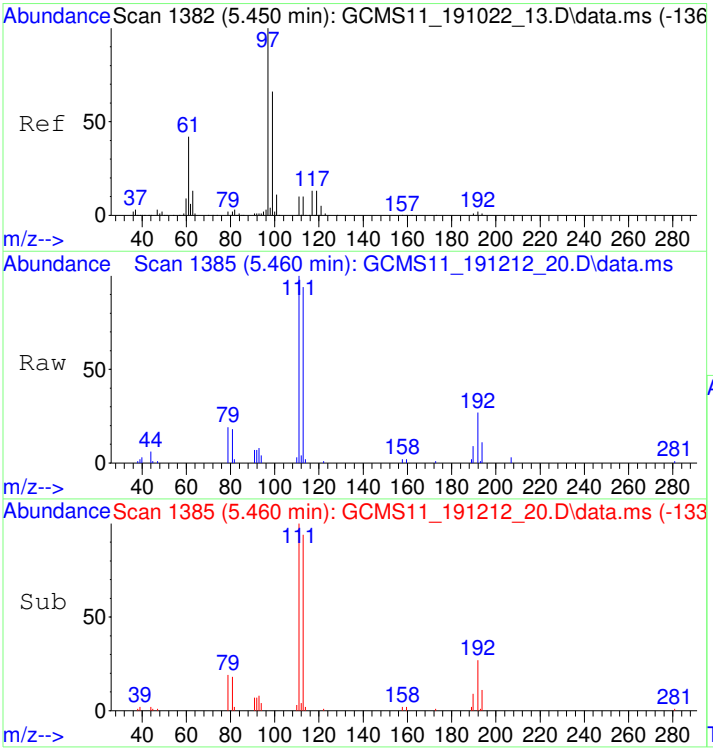


#12
Methylene chloride
Concen: 1.14 ng
RT: 2.97 min Scan# 610
Delta R.T. -0.003 min
Lab File: GCMS11_191212_20.D
Acq: 12 Dec 2019 9:52 pm

Tgt Ion: 84 Resp: 458

Ion	Ratio	Lower	Upper
84	100		
86	38.9	35.2	95.2
49	98.7	78.3	138.3
51	74.7	4.0	64.0#

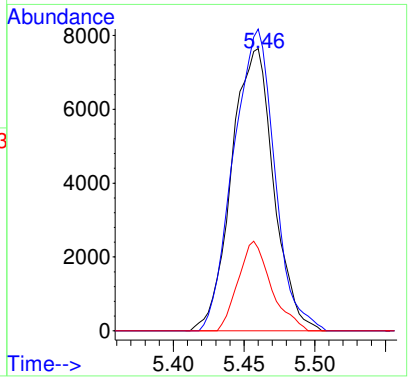


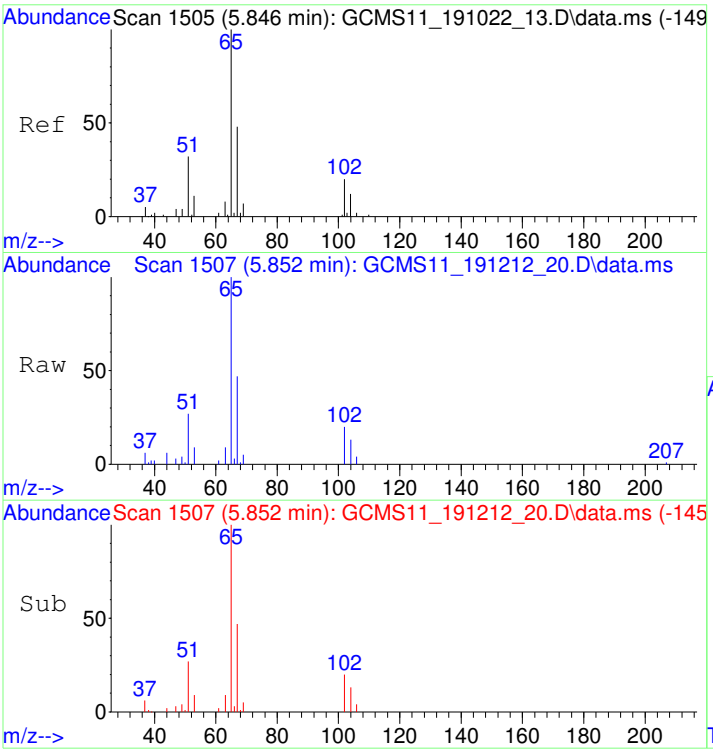


#22
DIBROMOFLUOROMETHANE
Concen: 47.32 ng
RT: 5.46 min Scan# 1385
Delta R.T. 0.000 min
Lab File: GCMS11_191212_20.D
Acq: 12 Dec 2019 9:52 pm

Tgt Ion:113 Resp: 15822

Ion	Ratio	Lower	Upper
113	100		
111	104.7	75.2	135.2
192	25.0	0.0	52.1

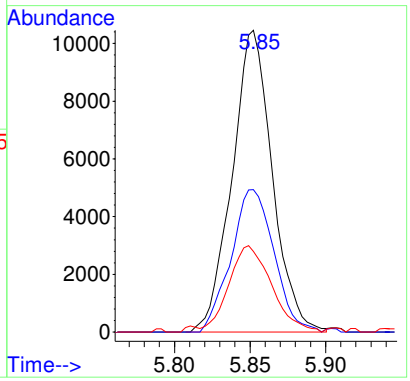


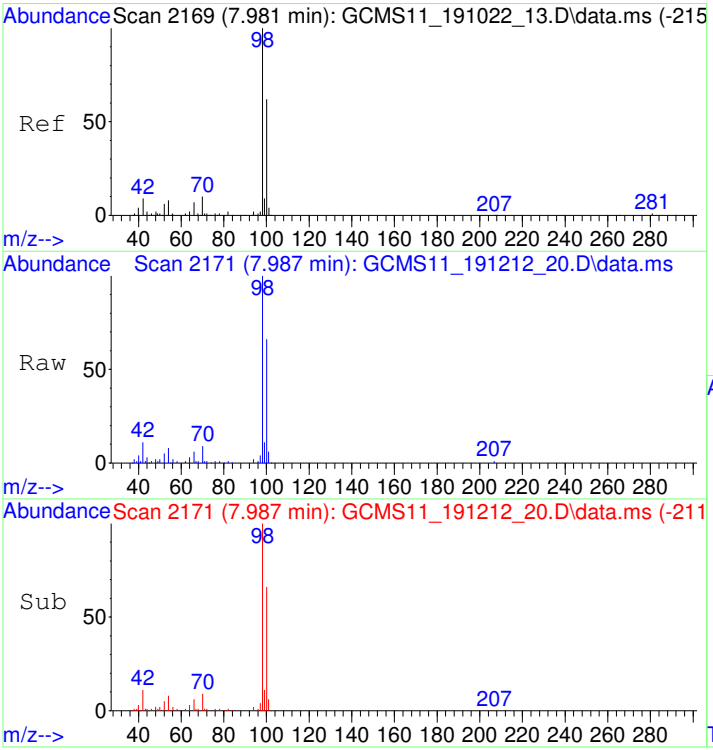


#26
1,2-DICHLOROETHANE-D4
Concen: 48.66 ng
RT: 5.85 min Scan# 1507
Delta R.T. 0.000 min
Lab File: GCMS11_191212_20.D
Acq: 12 Dec 2019 9:52 pm

Tgt Ion: 65 Resp: 19392

Ion	Ratio	Lower	Upper
65	100		
67	50.5	15.4	75.4
51	30.4	2.7	62.7

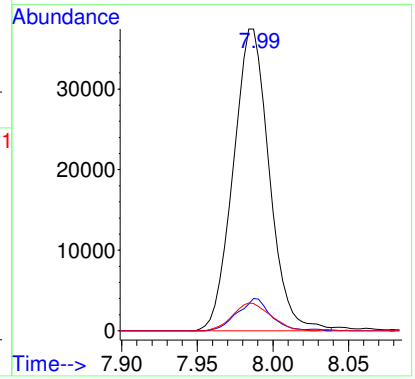


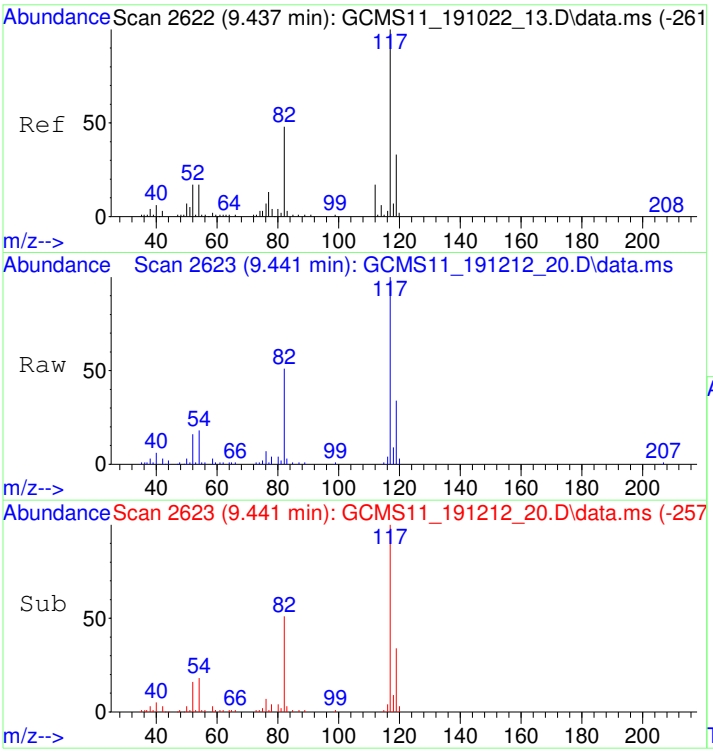


#37
TOLUENE-D8
Concen: 49.63 ng
RT: 7.99 min Scan# 2171
Delta R.T. 0.003 min
Lab File: GCMS11_191212_20.D
Acq: 12 Dec 2019 9:52 pm

Tgt Ion: 98 Resp: 62148

Ion	Ratio	Lower	Upper
98	100		
99	9.9	0.0	39.8
70	9.7	0.0	40.7

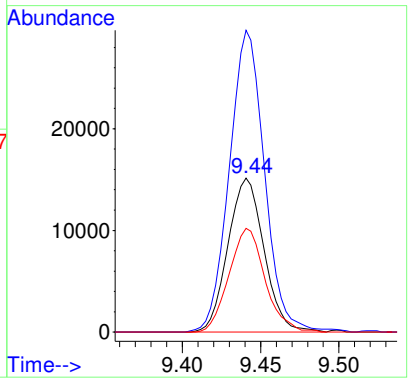


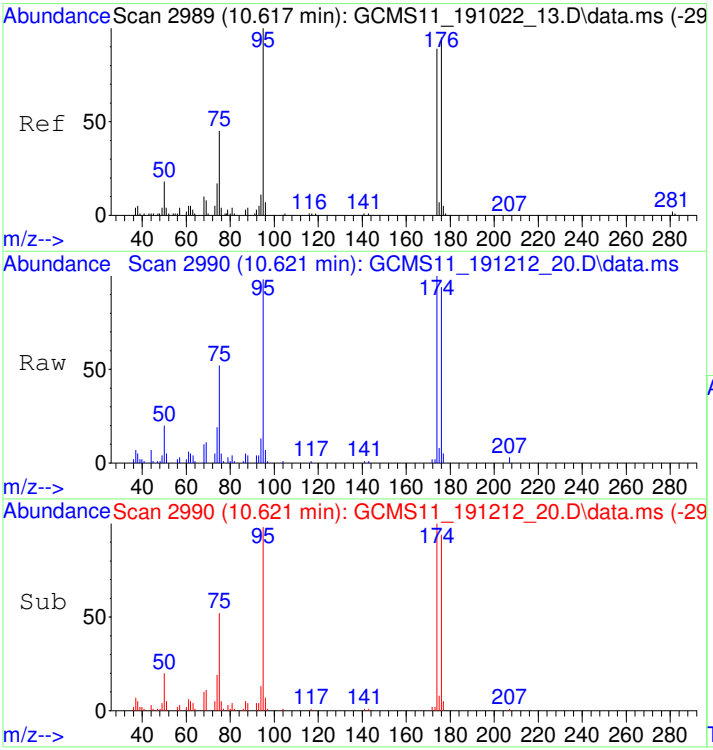


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.001 min
Lab File: GCMS11_191212_20.D
Acq: 12 Dec 2019 9:52 pm

Tgt Ion: 82 Resp: 24272

Ion	Ratio	Lower	Upper
82	100		
117	191.5	160.7	220.7
119	67.3	33.5	93.5

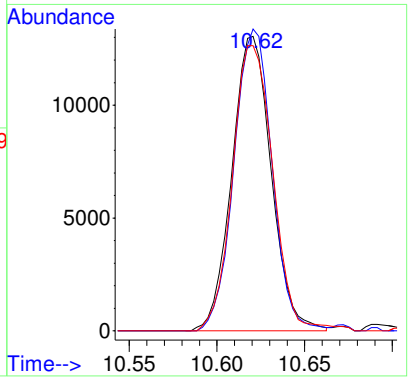


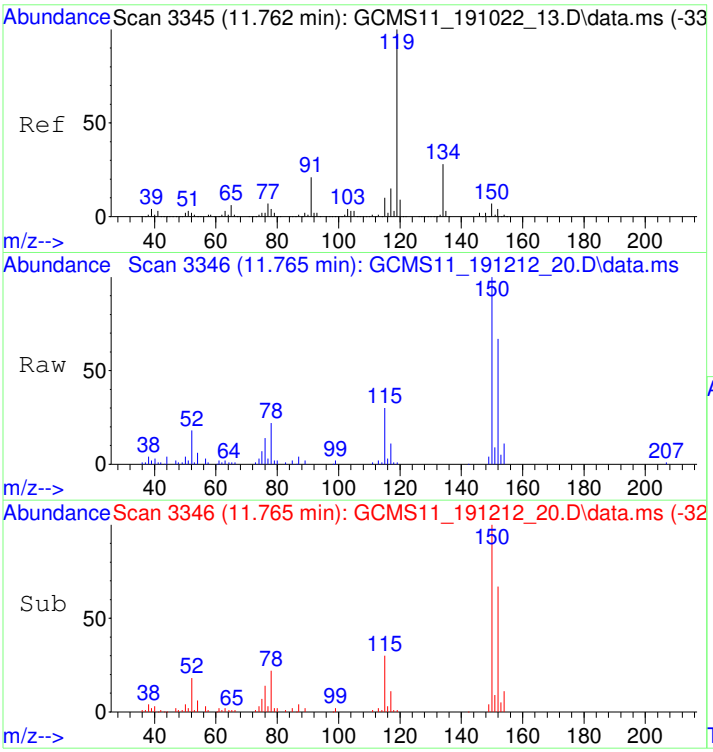


#55
4-BROMOFLUOROBENZENE
Concen: 46.46 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191212_20.D
Acq: 12 Dec 2019 9:52 pm

Tgt Ion: 95 Resp: 20445

Ion	Ratio	Lower	Upper
95	100		
174	98.8	68.5	128.5
176	99.4	66.8	126.8

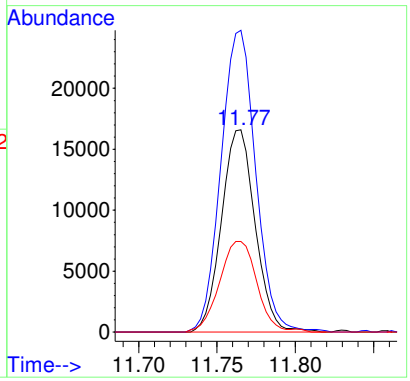




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_20.D
Acq: 12 Dec 2019 9:52 pm

Tgt Ion:152 Resp: 24875

Ion	Ratio	Lower	Upper
152	100		
150	153.5	162.5	222.5#
115	49.3	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_21.D
Acq On : 12 Dec 2019 10:23 pm
Operator : ko
Sample : 1912009-05
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 16 Sample Multiplier: 1

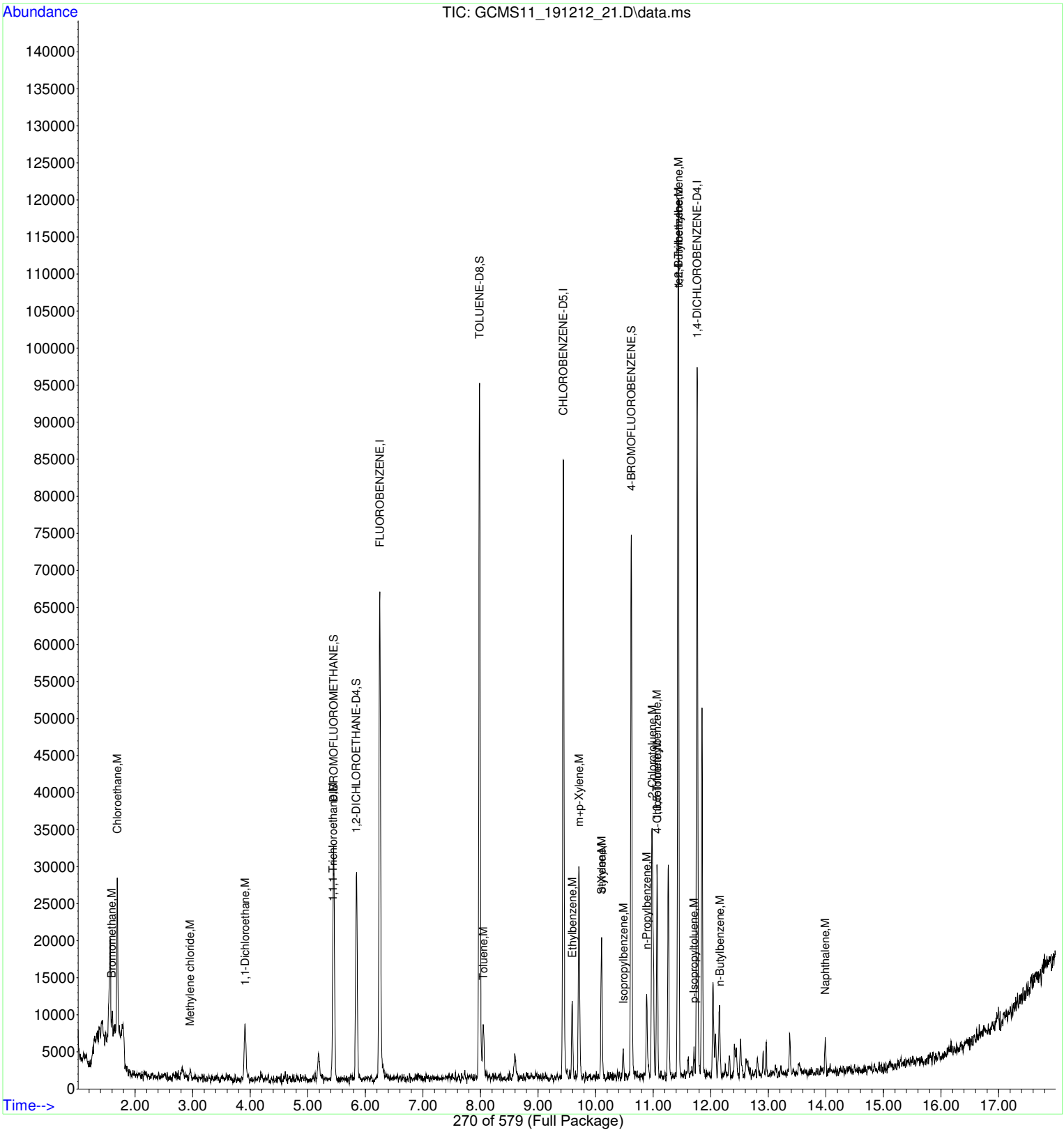
Quant Time: Dec 13 10:49:25 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

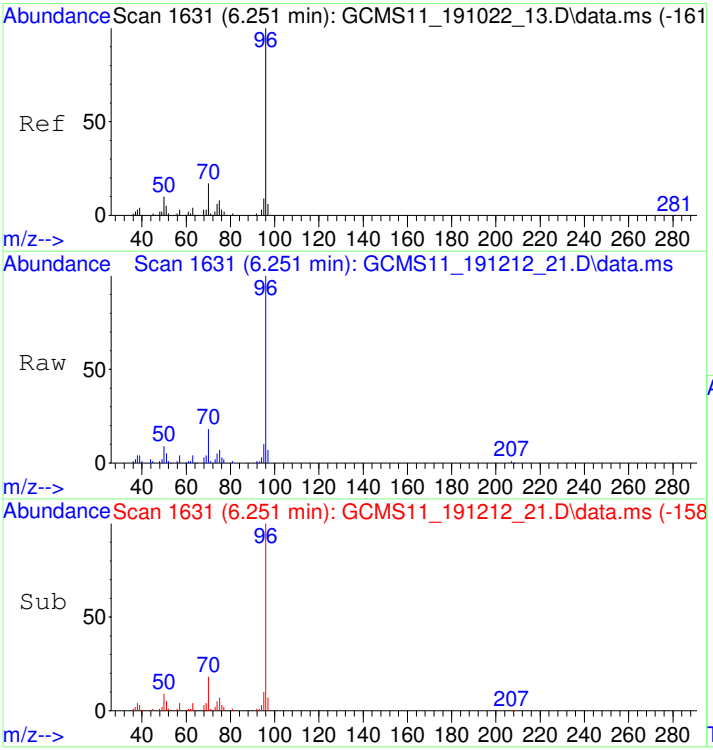
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.25	96	61792	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	23453	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	24596	50.00	ng		# 0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.45	113	16247	50.06	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.84	65	19028	49.20	ng		0.00
37) TOLUENE-D8	7.98	98	62459	51.40	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	21493	50.54	ng		0.00
Target Compounds							Qvalue
5) Bromomethane	1.60	96	709	2.55	ng		91
6) Chloroethane	1.69	64	12327	50.68	ng		97
12) Methylene chloride	2.96	84	572	1.47	ng	#	61
16) 1,1-Dichloroethane	3.91	63	8197	13.73	ng		94
23) 1,1,1-Trichloroethane	5.43	97	3412	6.30	ng		82
38) Toluene	8.05	92	3185	3.80	ng		81
49) Ethylbenzene	9.59	106	2375	4.57	ng		94
50) m+p-Xylene	9.71	106	7660	11.66	ng		82
51) o-Xylene	10.10	106	5045	7.95	ng		99
52) Styrene	10.11	103	788	1.31	ng	#	27
54) Isopropylbenzene	10.48	105	2296	1.37	ng		80
58) n-Propylbenzene	10.89	91	8198	4.35	ng		90
59) 2-Chlorotoluene	10.98	91	3431	3.12	ng	#	45
60) 1,3,5-Trimethylbenzene	11.07	105	14491	10.62	ng		94
61) 4-Chlorotoluene	11.07	91	1955	1.52	ng	#	49
64) tert-Butylbenzene	11.44	119	8361	7.70	ng	#	68
65) 1,2,4-Trimethylbenzene	11.44	105	60791	45.80	ng		100
68) p-Isopropyltoluene	11.71	119	1871m	1.31	ng		
71) n-Butylbenzene	12.16	91	1779	1.40	ng	#	40
75) Naphthalene	13.99	128	3369	2.38	ng		92

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_21.D
Acq On : 12 Dec 2019 10:23 pm
Operator : ko
Sample : 1912009-05
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 13 10:49:25 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

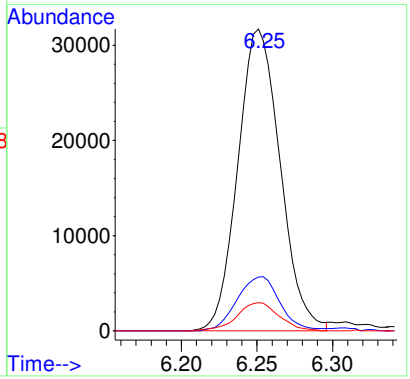


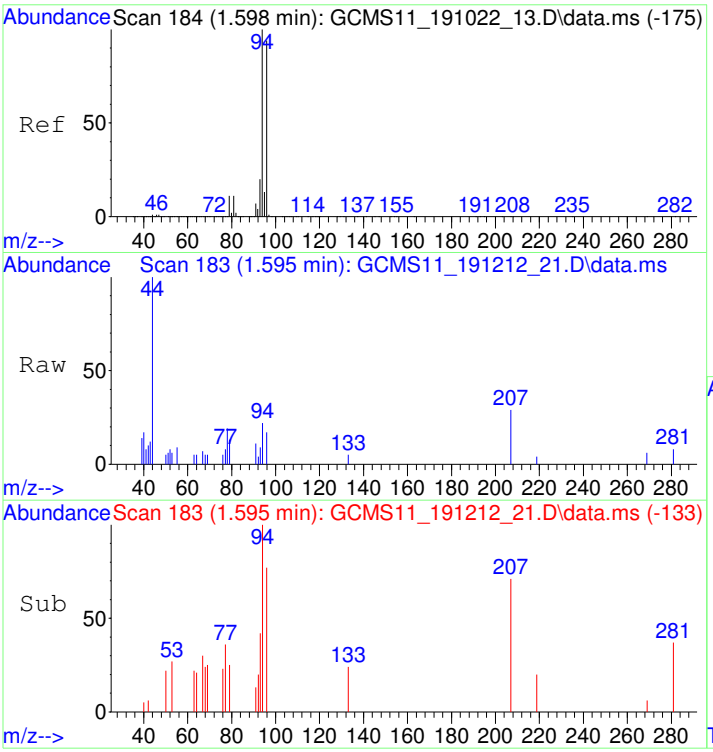


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1631
Delta R.T. -0.006 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion: 96 Resp: 61792

Ion	Ratio	Lower	Upper
96	100		
70	18.1	0.0	48.3
50	9.3	0.0	39.5

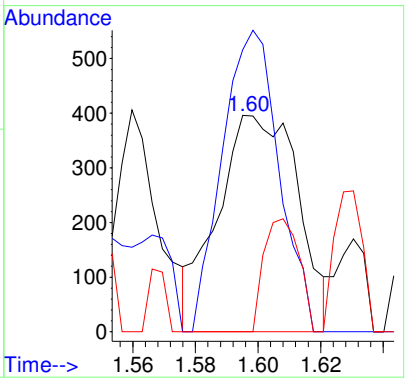


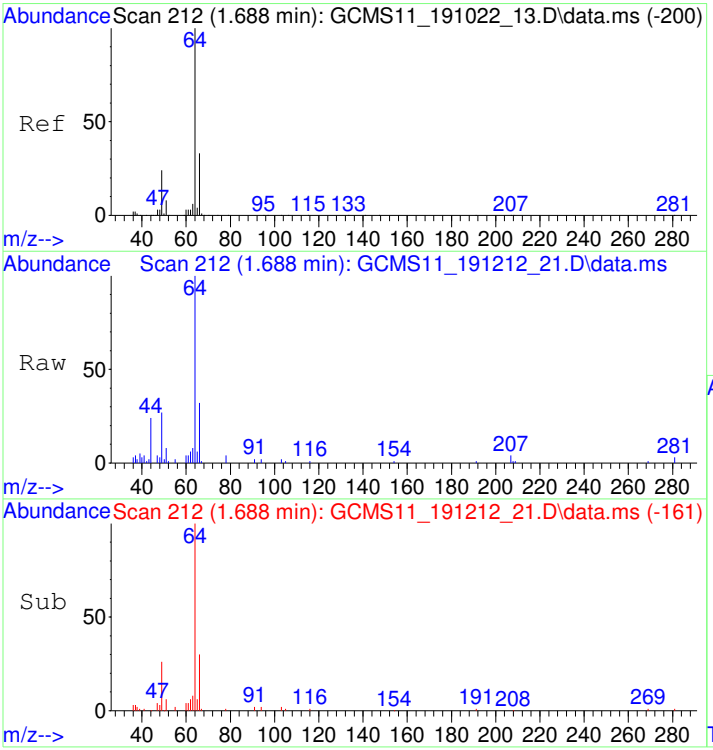


#5
Bromomethane
Concen: 2.55 ng
RT: 1.60 min Scan# 183
Delta R.T. -0.010 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion: 96 Resp: 709

Ion	Ratio	Lower	Upper
96	100		
94	98.0	74.8	134.8
81	22.8	0.0	42.0

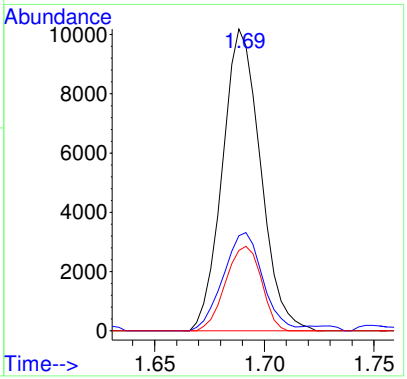


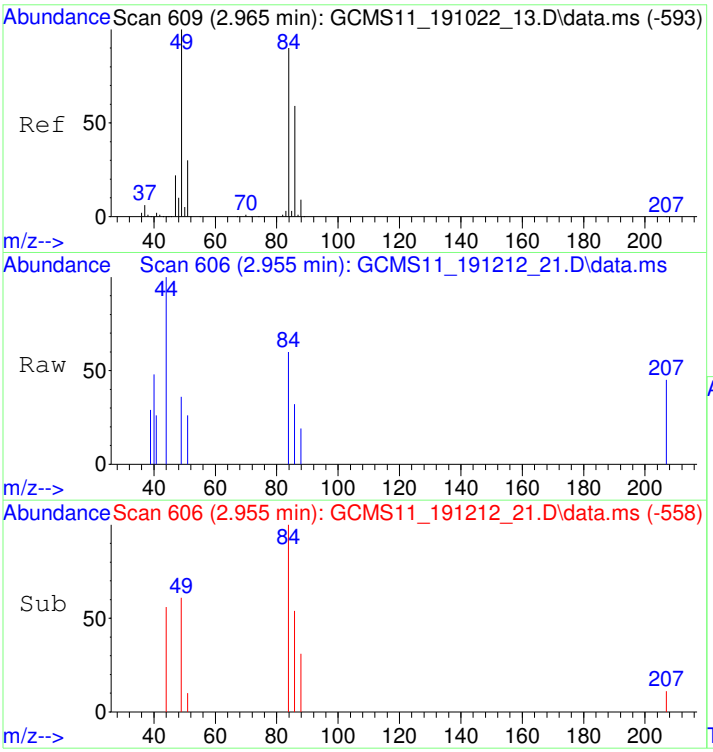


#6
Chloroethane
Concen: 50.68 ng
RT: 1.69 min Scan# 212
Delta R.T. -0.006 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion: 64 Resp: 12327

Ion	Ratio	Lower	Upper
64	100		
66	33.9	3.3	63.3
49	26.3	0.0	53.3

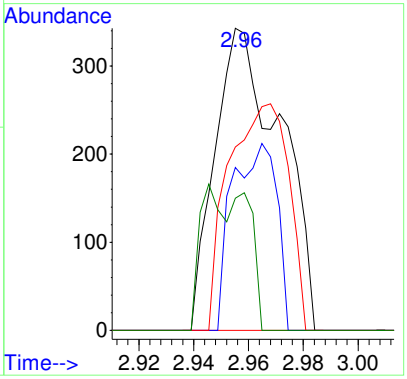


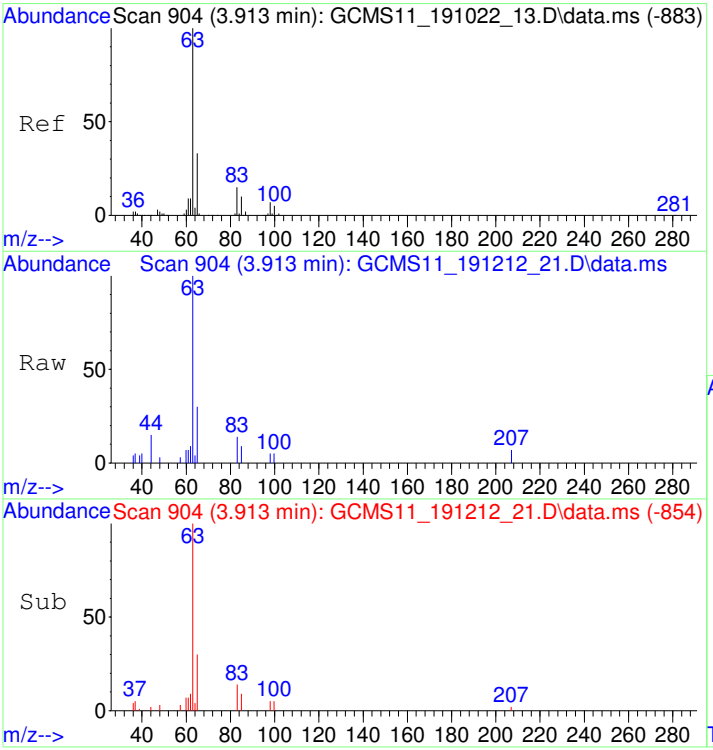


#12
Methylene chloride
Concen: 1.47 ng
RT: 2.96 min Scan# 606
Delta R.T. -0.016 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion: 84 Resp: 572

Ion	Ratio	Lower	Upper
84	100		
86	42.0	35.2	95.2
49	68.2	78.3	138.3#
51	0.0	4.0	64.0#

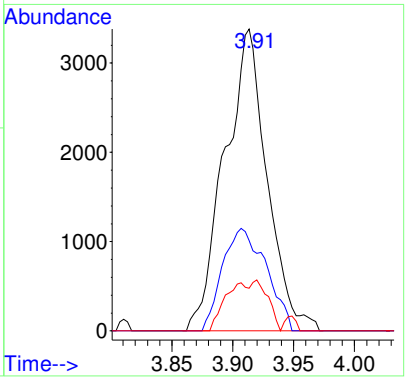


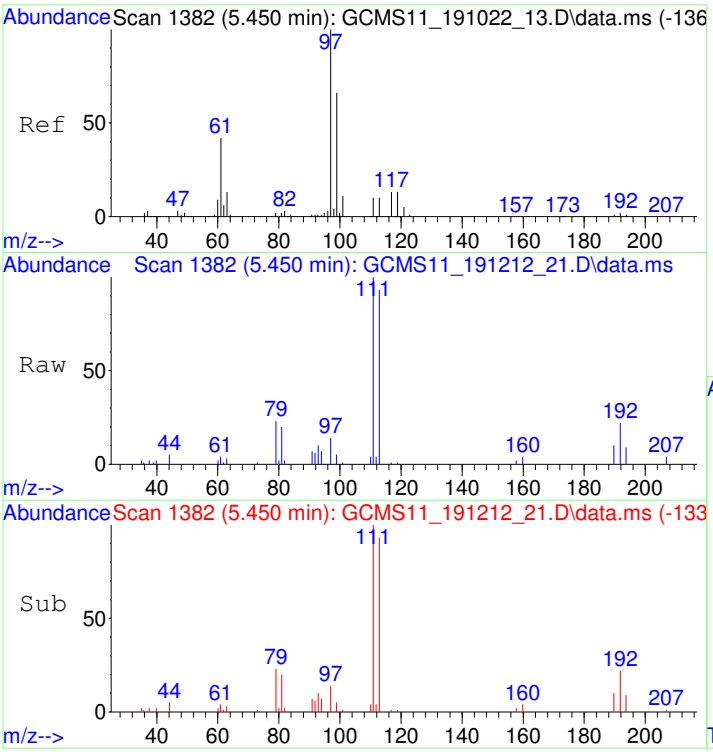


#16
1,1-Dichloroethane
Concen: 13.73 ng
RT: 3.91 min Scan# 904
Delta R.T. -0.010 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion: 63 Resp: 8197

Ion	Ratio	Lower	Upper
63	100		
65	35.0	2.8	62.8
83	9.3	0.0	44.3

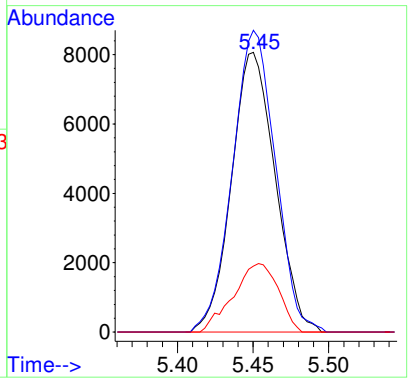


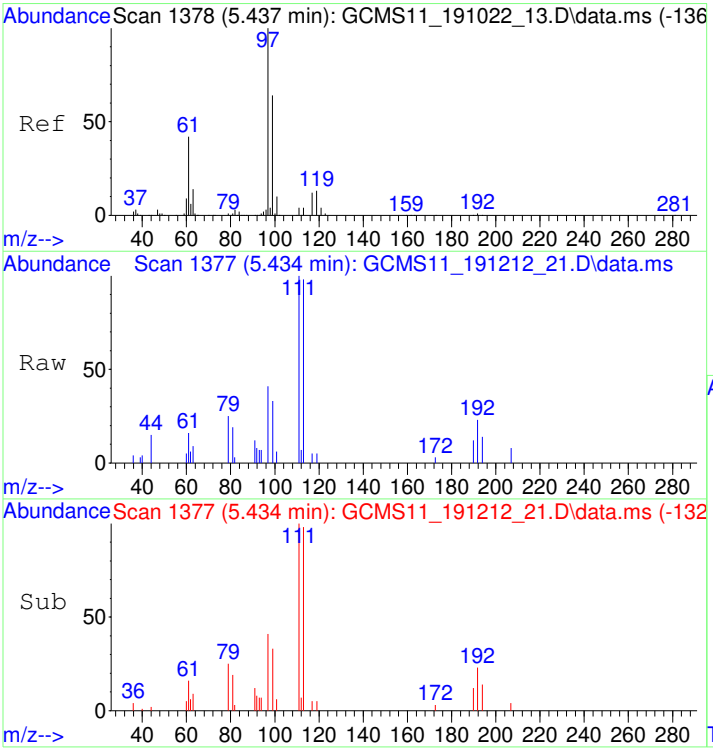


#22
DIBROMOFLUOROMETHANE
Concen: 50.06 ng
RT: 5.45 min Scan# 1382
Delta R.T. -0.010 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion:113 Resp: 16247

Ion	Ratio	Lower	Upper
113	100		
111	105.8	75.2	135.2
192	25.2	0.0	52.1

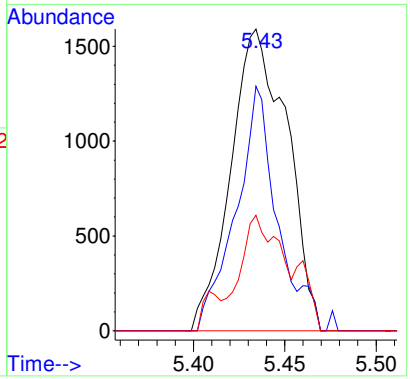


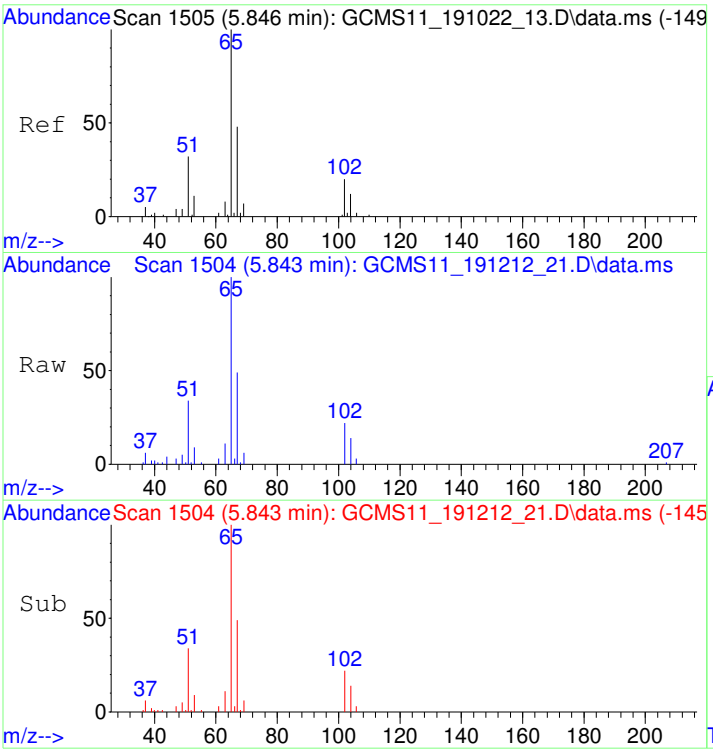


#23
1,1,1-Trichloroethane
Concen: 6.30 ng
RT: 5.43 min Scan# 1377
Delta R.T. -0.010 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion: 97 Resp: 3412

Ion	Ratio	Lower	Upper
97	100		
99	59.3	32.7	92.7
61	19.1	13.1	73.1

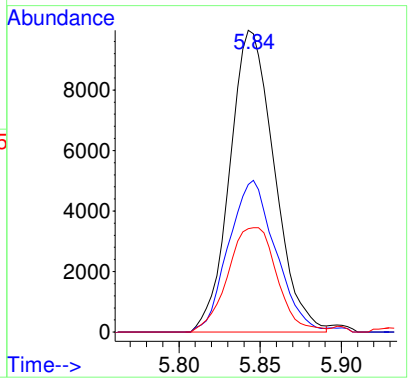


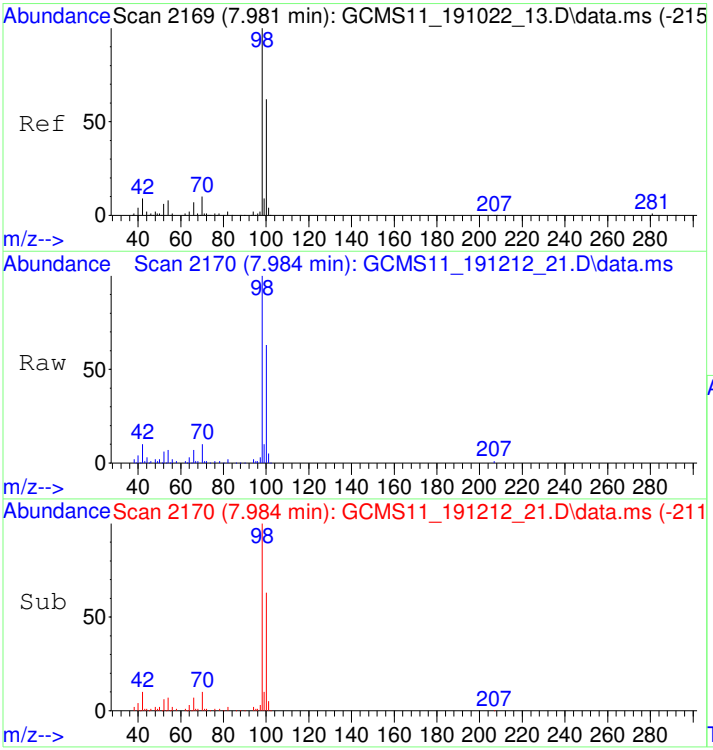


#26
1,2-DICHLOROETHANE-D4
Concen: 49.20 ng
RT: 5.84 min Scan# 1504
Delta R.T. -0.010 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion: 65 Resp: 19028

Ion	Ratio	Lower	Upper
65	100		
67	53.2	15.4	75.4
51	38.2	2.7	62.7

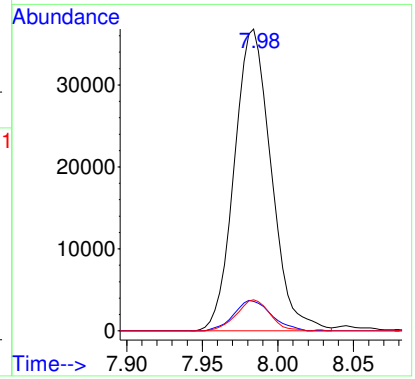


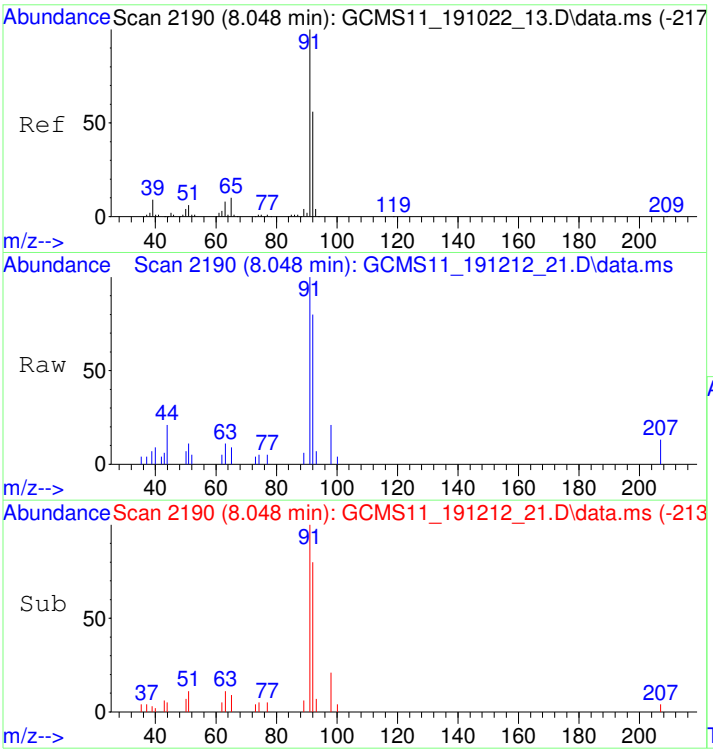


#37
TOLUENE-D8
Concen: 51.40 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion: 98 Resp: 62459

Ion	Ratio	Lower	Upper
98	100		
99	10.3	0.0	39.8
70	9.4	0.0	40.7

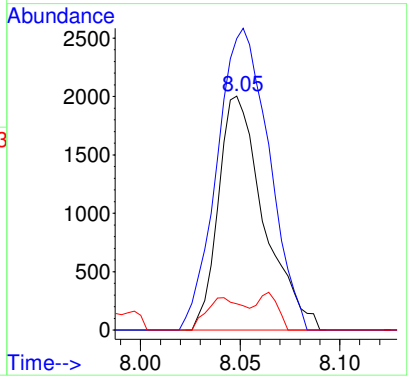


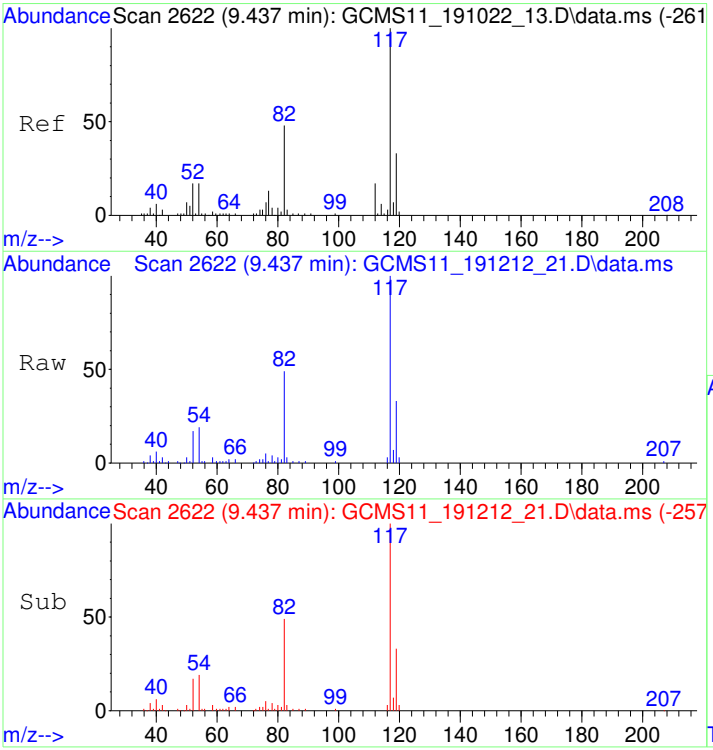


#38
Toluene
Concen: 3.80 ng
RT: 8.05 min Scan# 2190
Delta R.T. -0.006 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion: 92 Resp: 3185

Ion	Ratio	Lower	Upper
92	100		
91	147.4	145.1	205.1
65	11.3	0.0	48.1

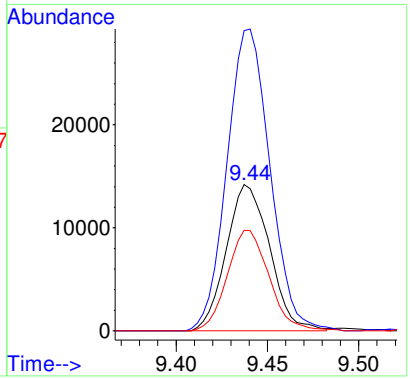


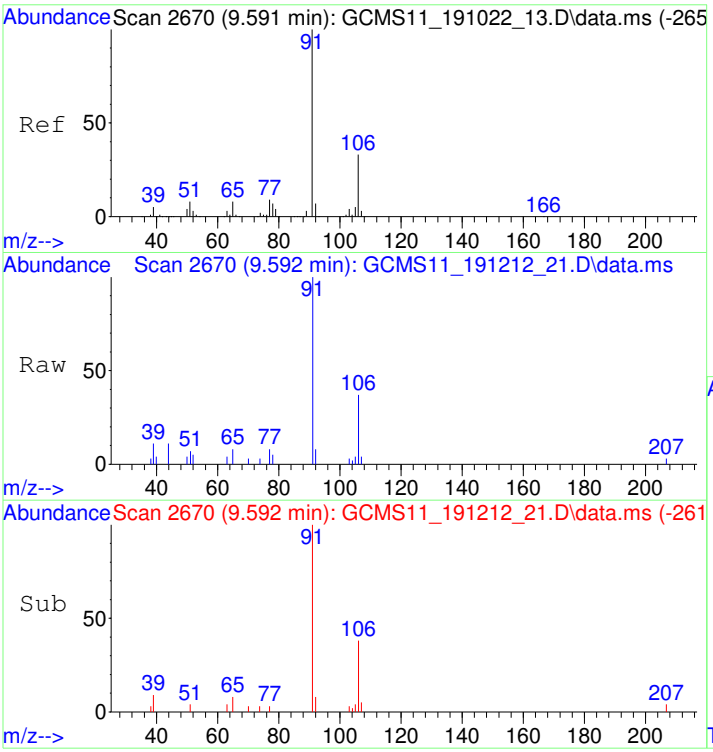


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2622
Delta R.T. -0.003 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion: 82 Resp: 23453

Ion	Ratio	Lower	Upper
82	100		
117	204.8	160.7	220.7
119	66.2	33.5	93.5

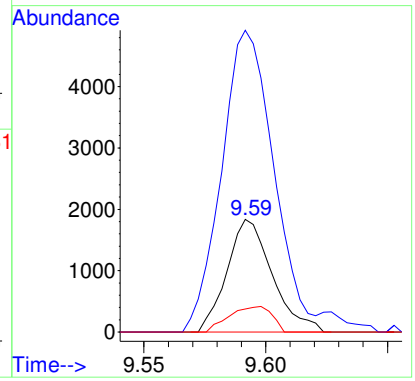


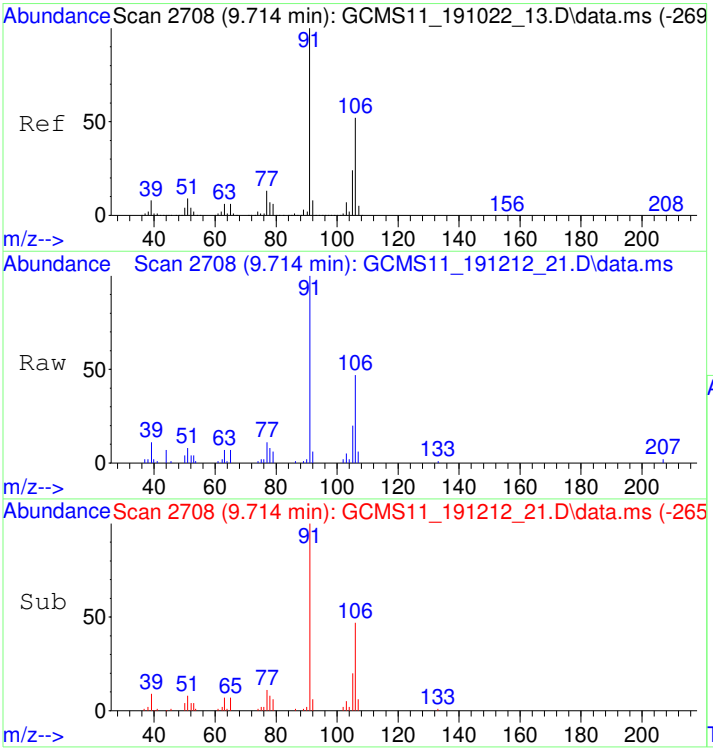


#49
Ethylbenzene
Concen: 4.57 ng
RT: 9.59 min Scan# 2670
Delta R.T. -0.003 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion:106 Resp: 2375

Ion	Ratio	Lower	Upper
106	100		
91	307.0	267.1	327.1
77	21.5	0.0	57.1

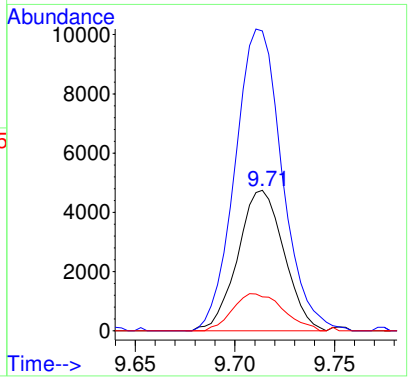


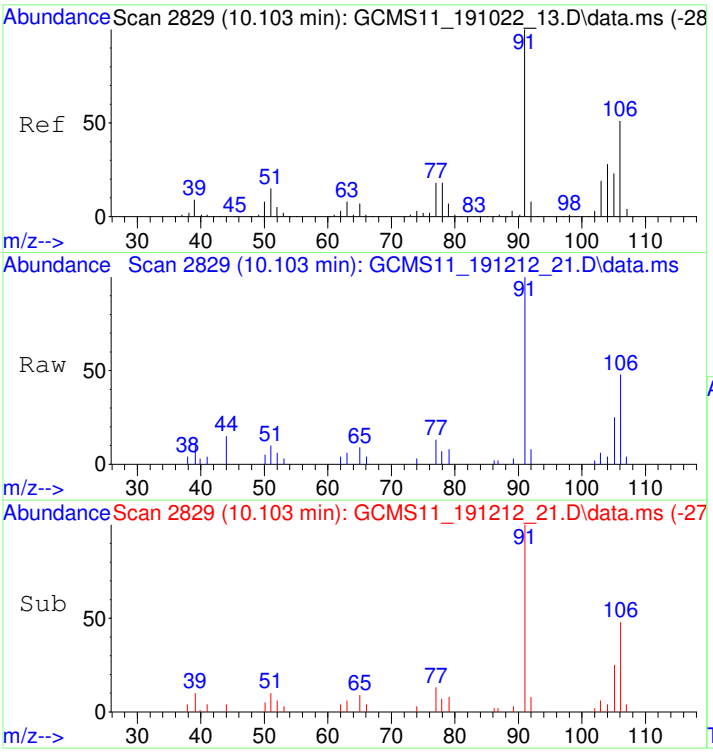


#50
m+p-Xylene
Concen: 11.66 ng
RT: 9.71 min Scan# 2708
Delta R.T. 0.000 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion:106 Resp: 7660

Ion	Ratio	Lower	Upper
106	100		
91	219.5	160.8	220.8
77	29.1	0.0	54.6

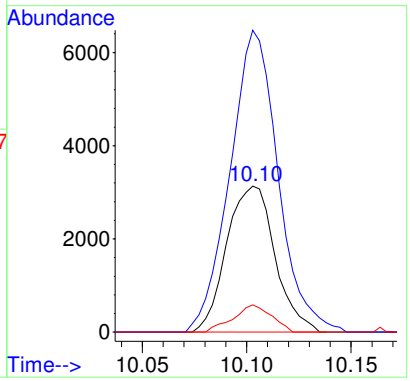


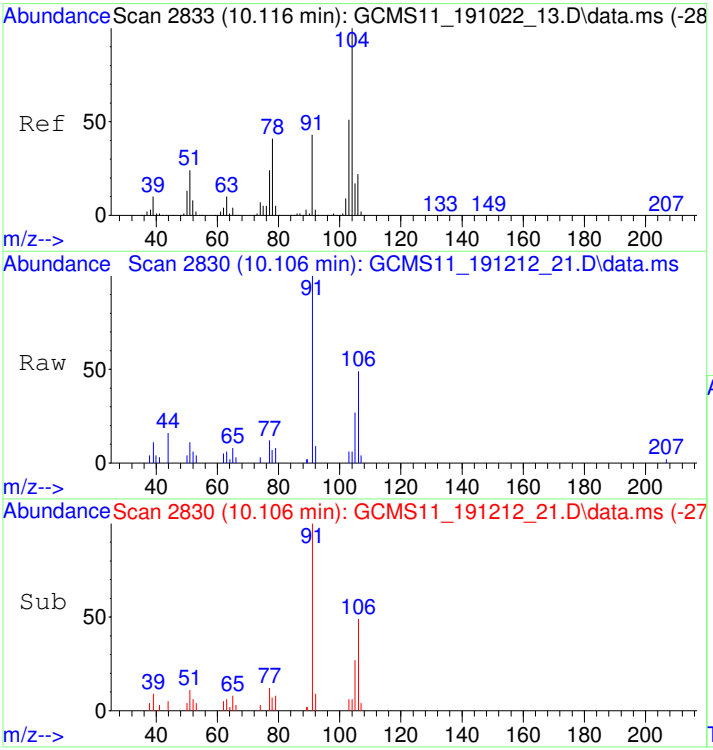


#51
o-Xylene
Concen: 7.95 ng
RT: 10.10 min Scan# 2829
Delta R.T. 0.000 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion:106 Resp: 5045

Ion	Ratio	Lower	Upper
106	100		
91	206.3	178.4	238.4
65	14.8	0.0	45.9

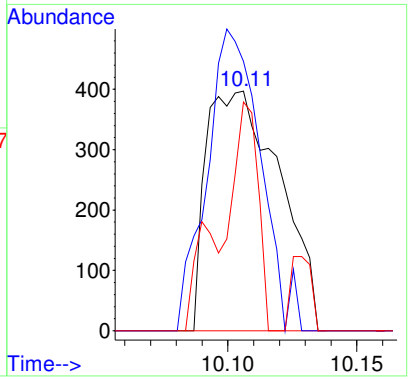


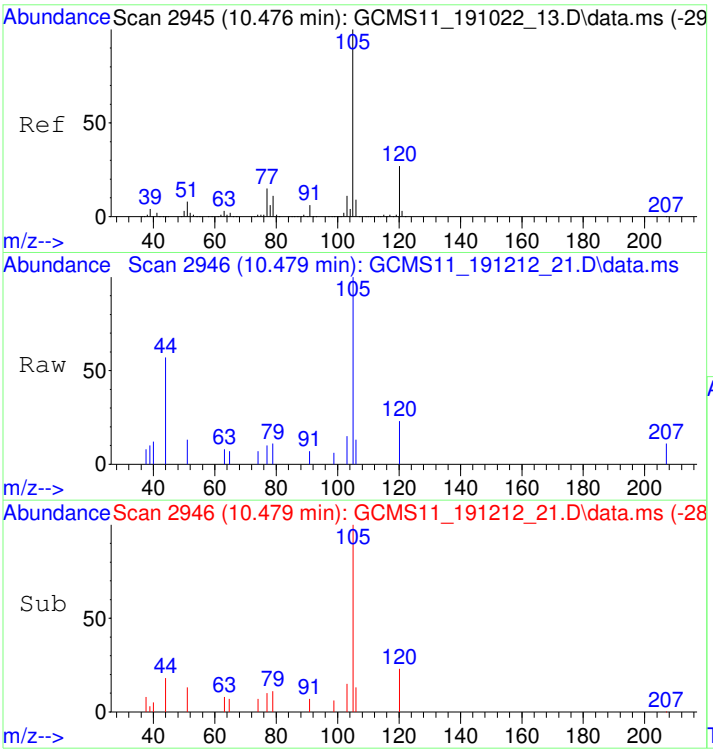


#52
Styrene
Concen: 1.31 ng
RT: 10.11 min Scan# 2830
Delta R.T. -0.016 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion:103 Resp: 788

Ion	Ratio	Lower	Upper
103	100		
78	91.5	54.1	114.1
104	33.4	150.1	210.1#

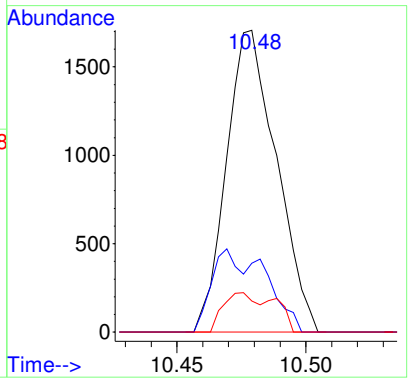


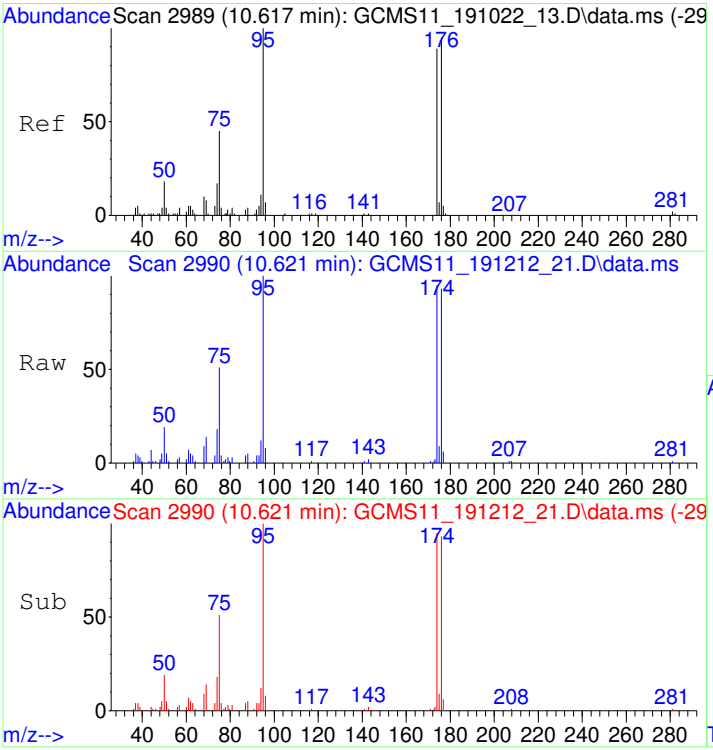


#54
Isopropylbenzene
Concen: 1.37 ng
RT: 10.48 min Scan# 2946
Delta R.T. 0.000 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion:105 Resp: 2296

Ion	Ratio	Lower	Upper
105	100		
120	16.6	0.0	59.2
77	9.0	0.0	44.3

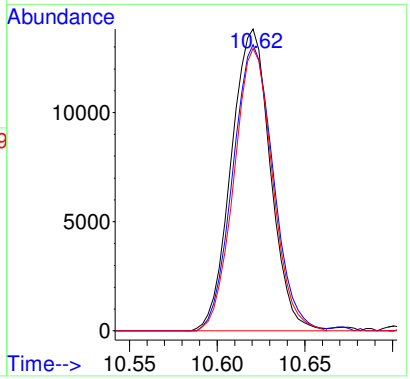


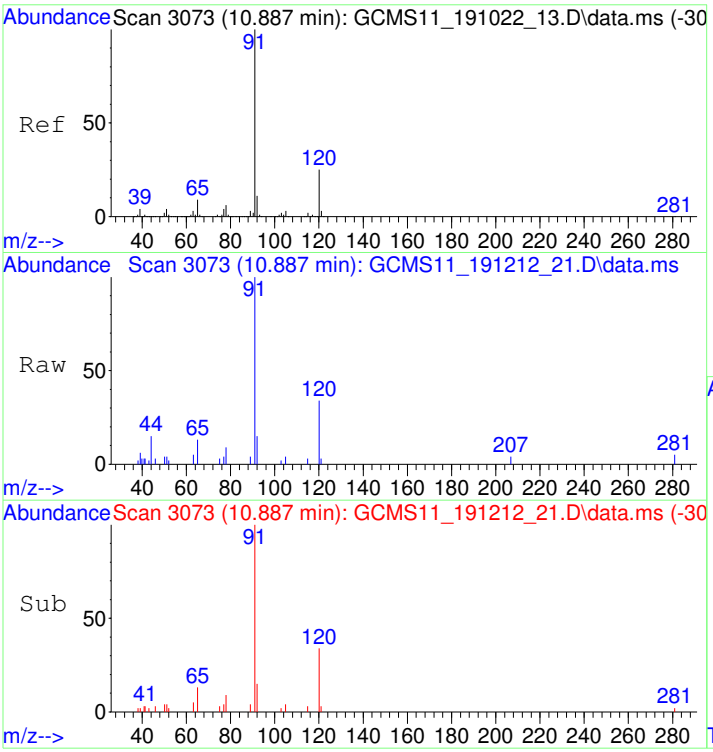


#55
4-BROMOFLUOROBENZENE
Concen: 50.54 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion: 95 Resp: 21493

Ion	Ratio	Lower	Upper
95	100		
174	97.7	68.5	128.5
176	92.1	66.8	126.8

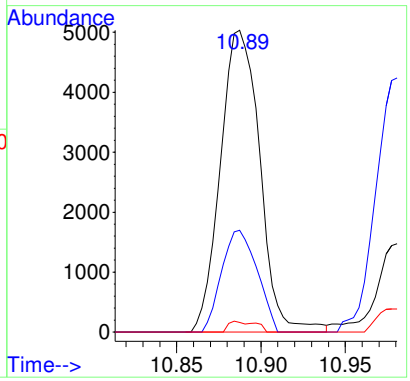


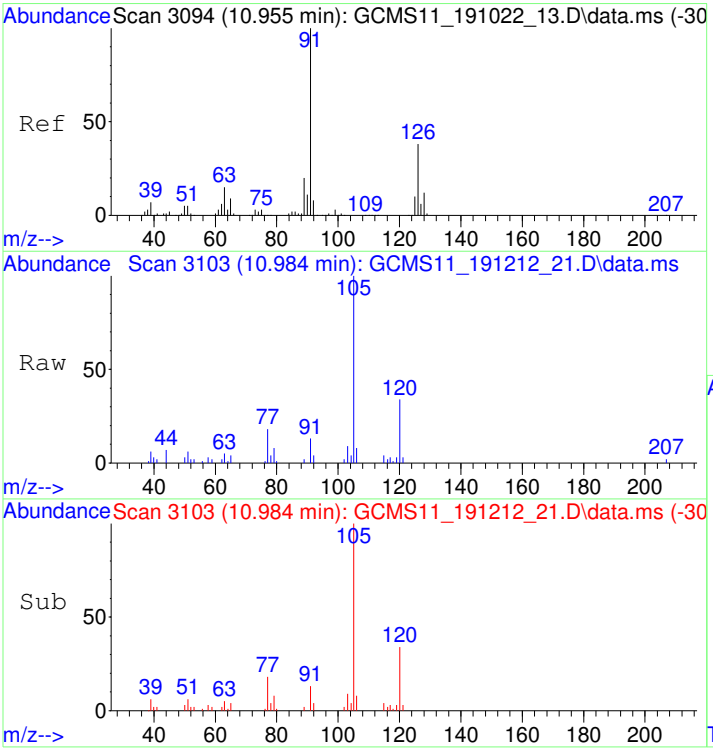


#58
n-Propylbenzene
Concen: 4.35 ng
RT: 10.89 min Scan# 3073
Delta R.T. 0.000 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion: 91 Resp: 8198

Ion	Ratio	Lower	Upper
91	100		
120	30.3	0.0	55.0
121	2.5	0.0	32.4

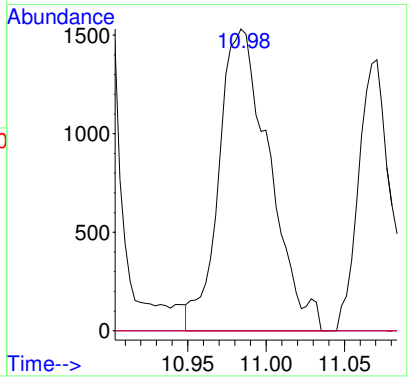


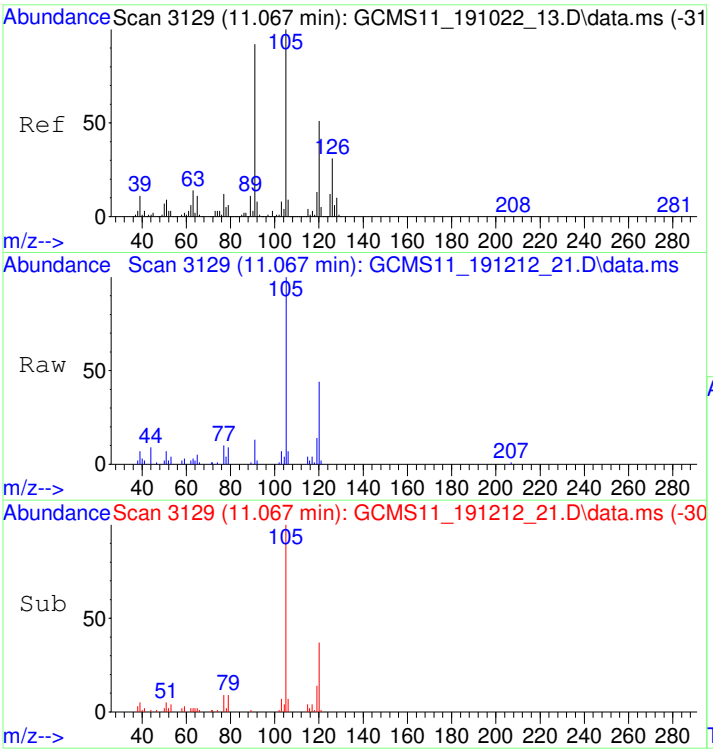


#59
2-Chlorotoluene
Concen: 3.12 ng
RT: 10.98 min Scan# 3103
Delta R.T. 0.026 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion: 91 Resp: 3431

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

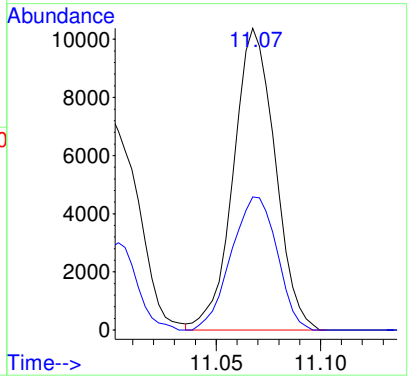


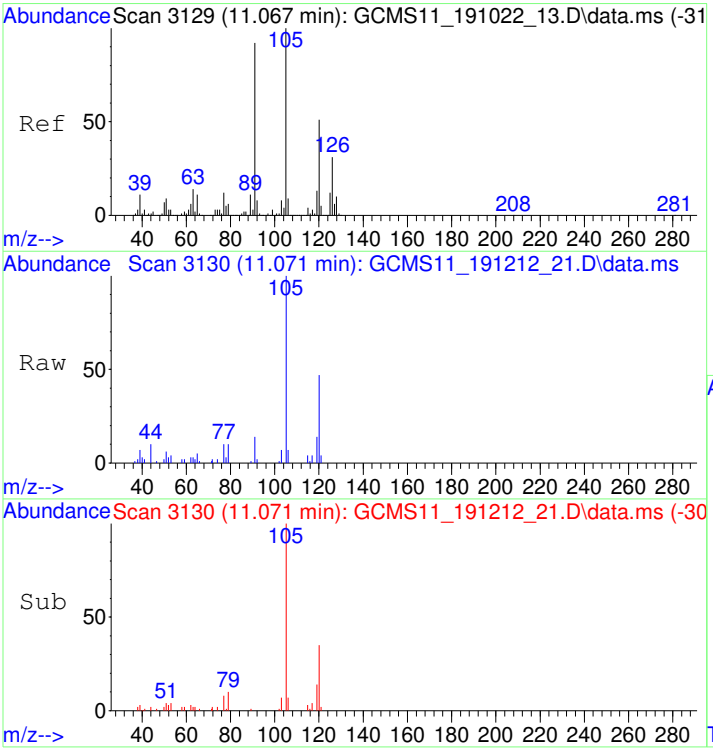


#60
1,3,5-Trimethylbenzene
Concen: 10.62 ng
RT: 11.07 min Scan# 3129
Delta R.T. -0.003 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion:105 Resp: 14491

Ion	Ratio	Lower	Upper
105	100		
120	48.4	22.4	82.4

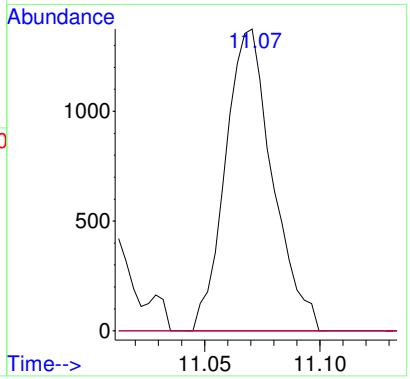


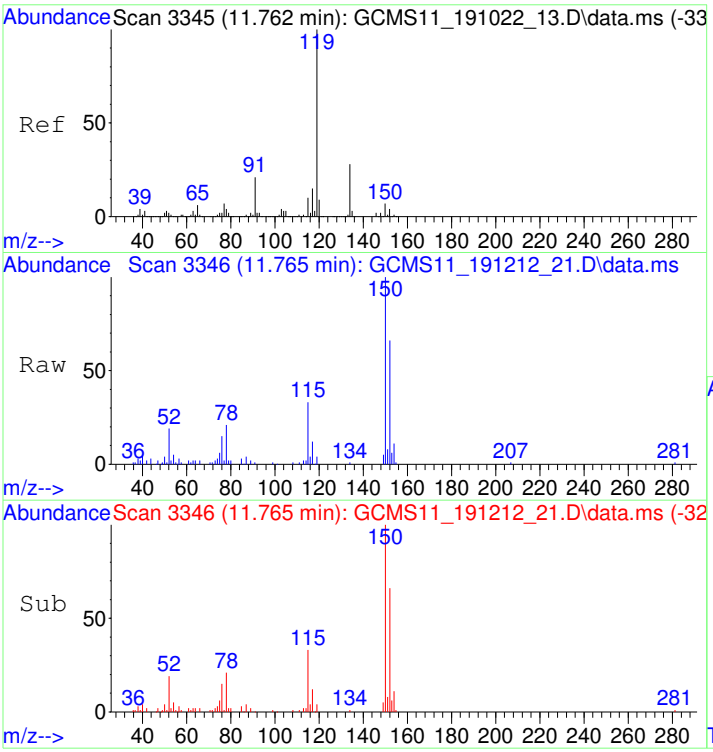


#61
4-Chlorotoluene
Concen: 1.52 ng
RT: 11.07 min Scan# 3130
Delta R.T. 0.003 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion: 91 Resp: 1955

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

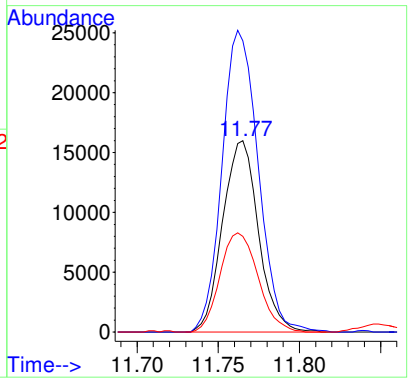


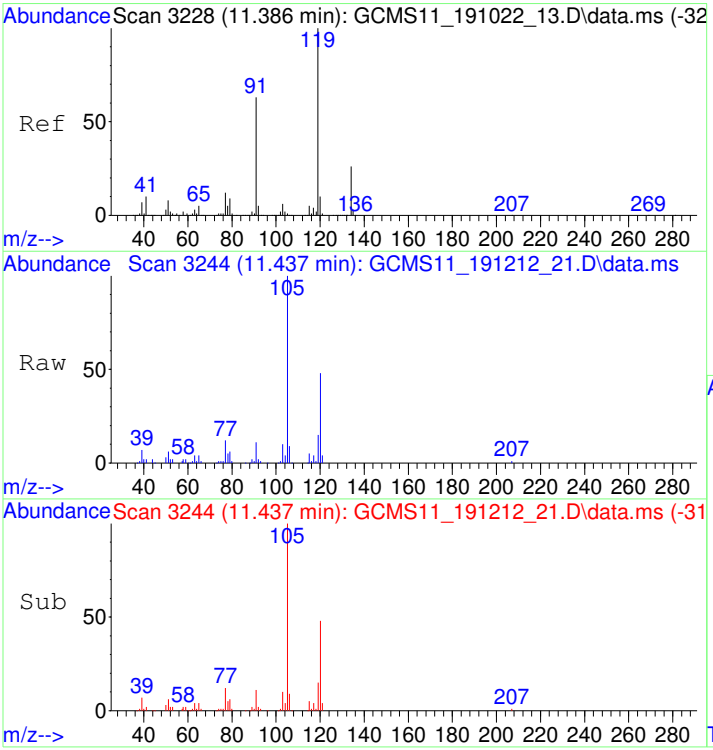


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion:152 Resp: 24596

Ion	Ratio	Lower	Upper
152	100		
150	159.1	162.5	222.5#
115	55.0	82.3	142.3#

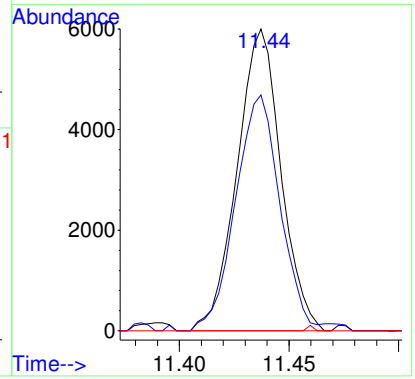


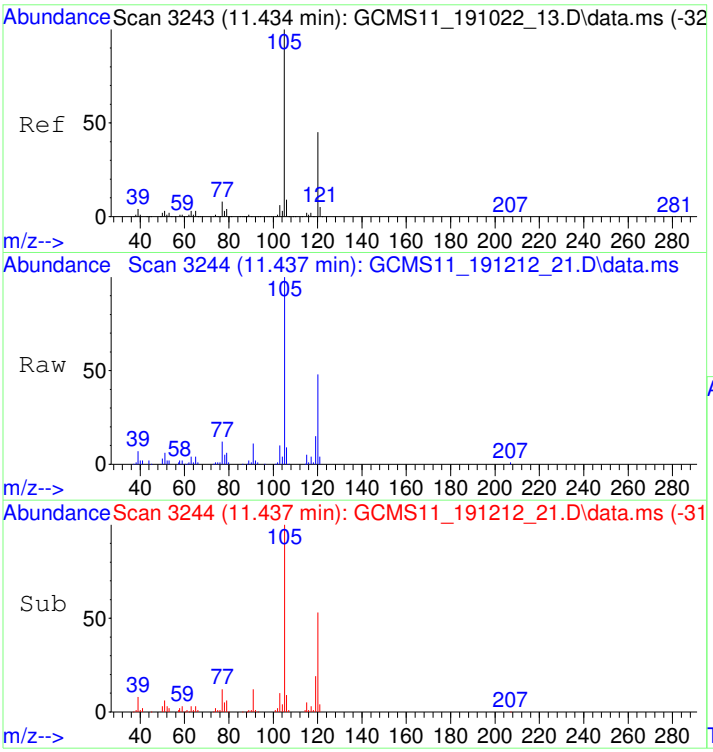


#64
tert-Butylbenzene
Concen: 7.70 ng
RT: 11.44 min Scan# 3244
Delta R.T. 0.048 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion:119 Resp: 8361

Ion	Ratio	Lower	Upper
119	100		
91	79.1	31.1	91.1
134	0.0	0.0	55.9

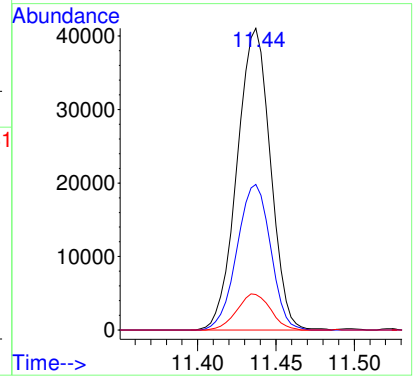


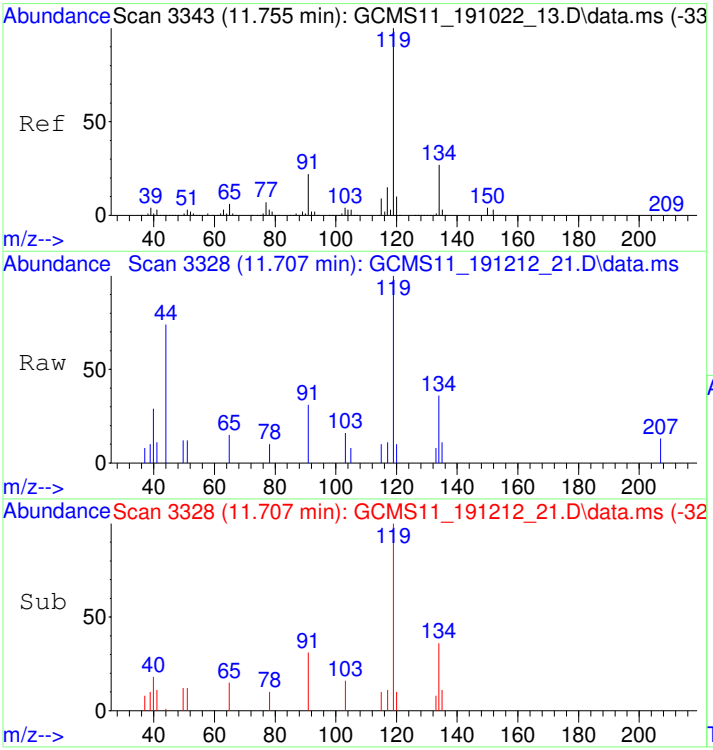


#65
1,2,4-Trimethylbenzene
Concen: 45.80 ng
RT: 11.44 min Scan# 3244
Delta R.T. 0.000 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion:105 Resp: 60791

Ion	Ratio	Lower	Upper
105	100		
120	48.6	18.6	78.6
77	12.1	0.0	41.4

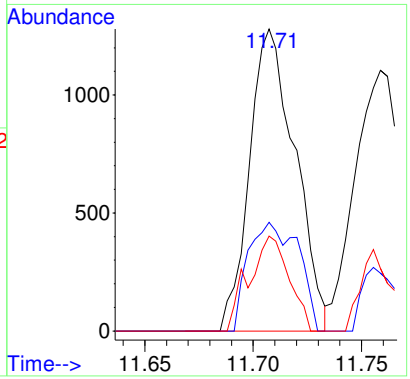


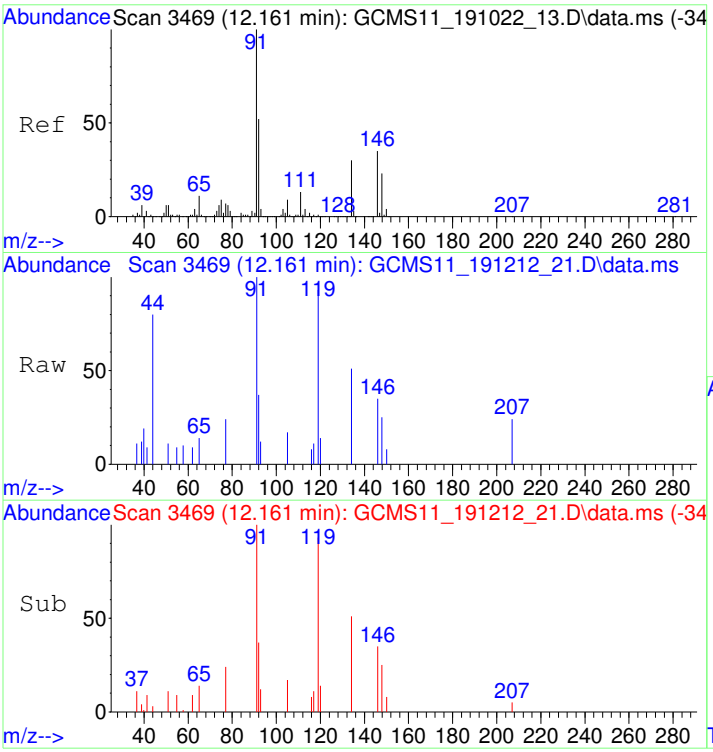


#68
p-Isopropyltoluene
Concen: 1.31 ng m
RT: 11.71 min Scan# 3328
Delta R.T. -0.051 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion:119 Resp: 1871

Ion	Ratio	Lower	Upper
119	100		
134	14.7	0.0	57.5
91	19.7	0.0	51.3

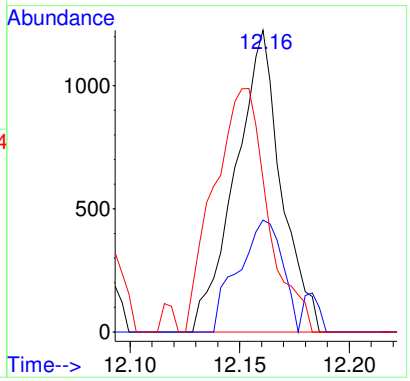


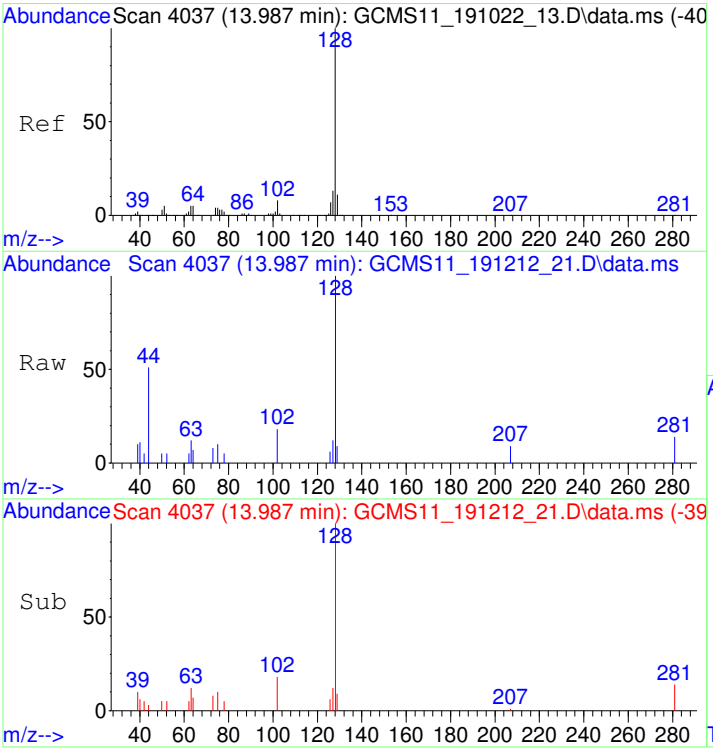


#71
n-Butylbenzene
Concen: 1.40 ng
RT: 12.16 min Scan# 3469
Delta R.T. 0.000 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion: 91 Resp: 1779

Ion	Ratio	Lower	Upper
91	100		
92	35.8	22.0	82.0
134	95.3	0.0	58.4#

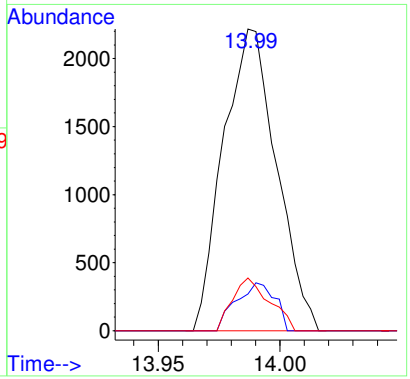




#75
Naphthalene
Concen: 2.38 ng
RT: 13.99 min Scan# 4037
Delta R.T. -0.000 min
Lab File: GCMS11_191212_21.D
Acq: 12 Dec 2019 10:23 pm

Tgt Ion:128 Resp: 3369

Ion	Ratio	Lower	Upper
128	100		
127	11.6	0.0	43.5
102	12.2	0.0	37.4



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_22.D
Acq On : 12 Dec 2019 10:53 pm
Operator : ko
Sample : 1912009-06
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 17 Sample Multiplier: 1

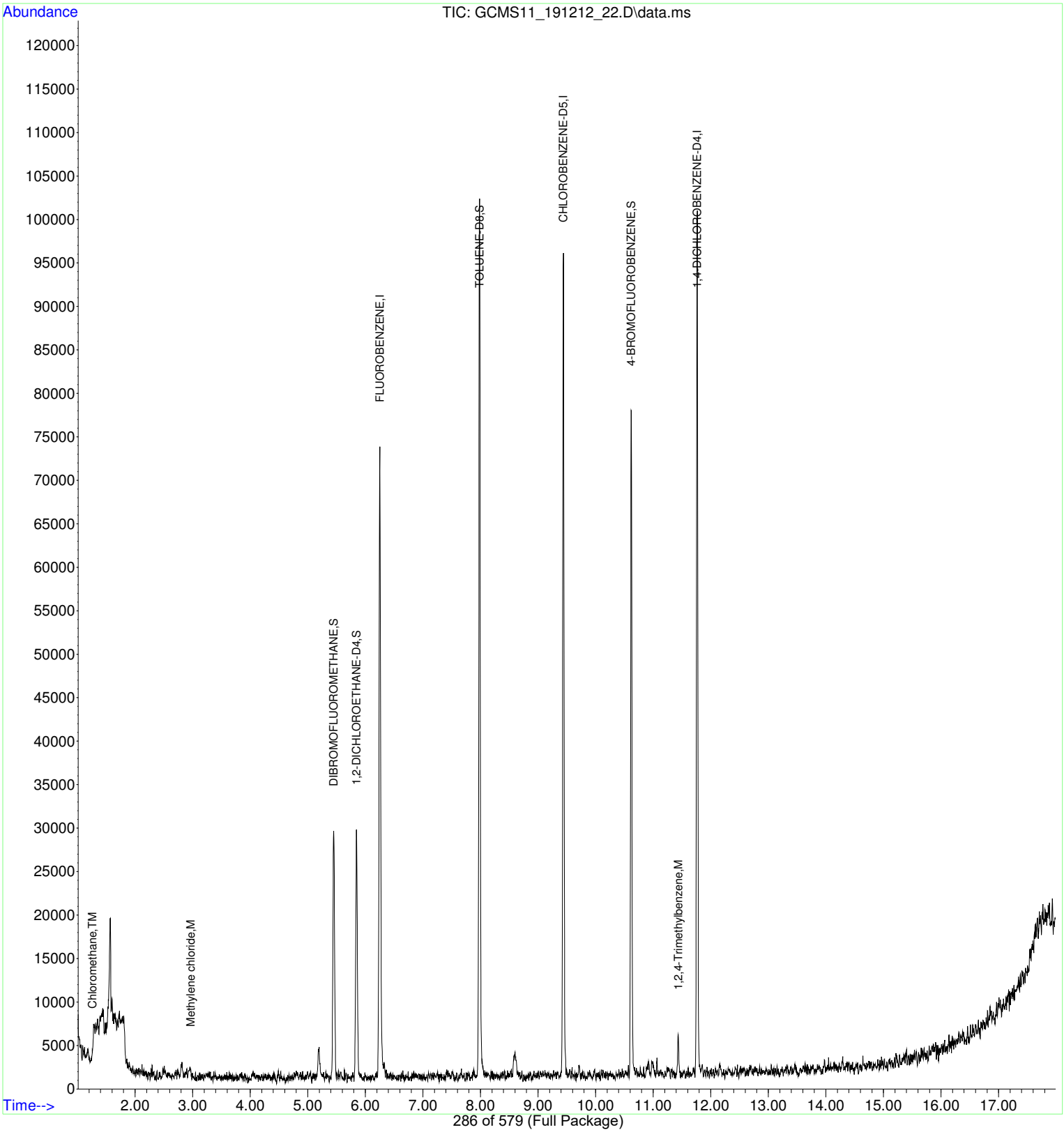
Quant Time: Dec 13 10:50:41 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

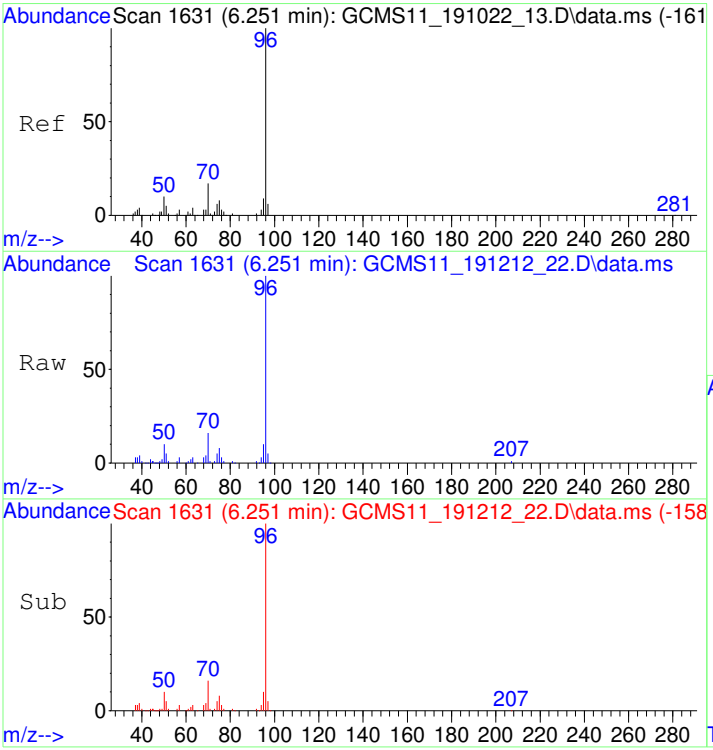
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.25	96	66860	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	25836	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	26497	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.45	113	17192	48.96	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	19768	47.24	ng	0.00
37) TOLUENE-D8	7.98	98	65575	49.87	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	22435	47.89	ng	0.00
Target Compounds						Qvalue
3) Chloromethane	1.25	50	564	1.99	ng	# 66
12) Methylene chloride	2.96	84	670	1.59	ng	# 55
65) 1,2,4-Trimethylbenzene	11.43	105	2443	1.71	ng	93

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_22.D
Acq On : 12 Dec 2019 10:53 pm
Operator : ko
Sample : 1912009-06
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 13 10:50:41 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

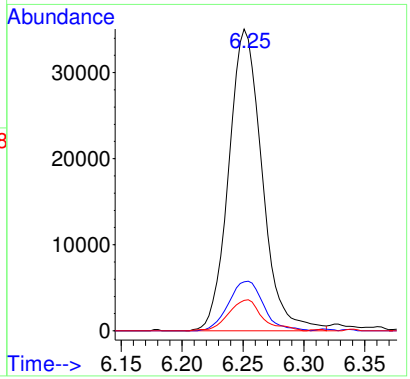


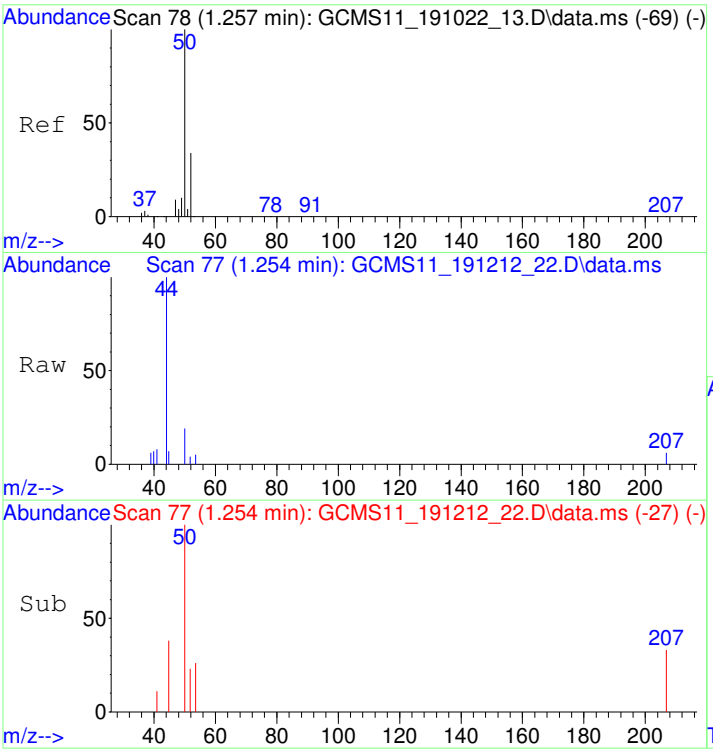


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1631
Delta R.T. -0.006 min
Lab File: GCMS11_191212_22.D
Acq: 12 Dec 2019 10:53 pm

Tgt Ion: 96 Resp: 66860

Ion	Ratio	Lower	Upper
96	100		
70	17.2	0.0	48.3
50	10.5	0.0	39.5

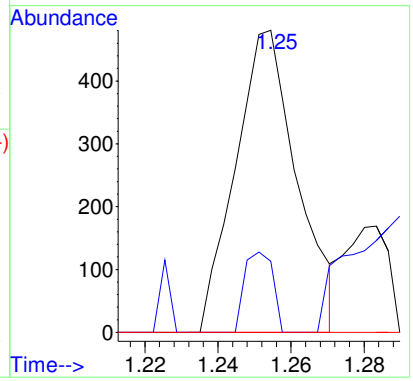


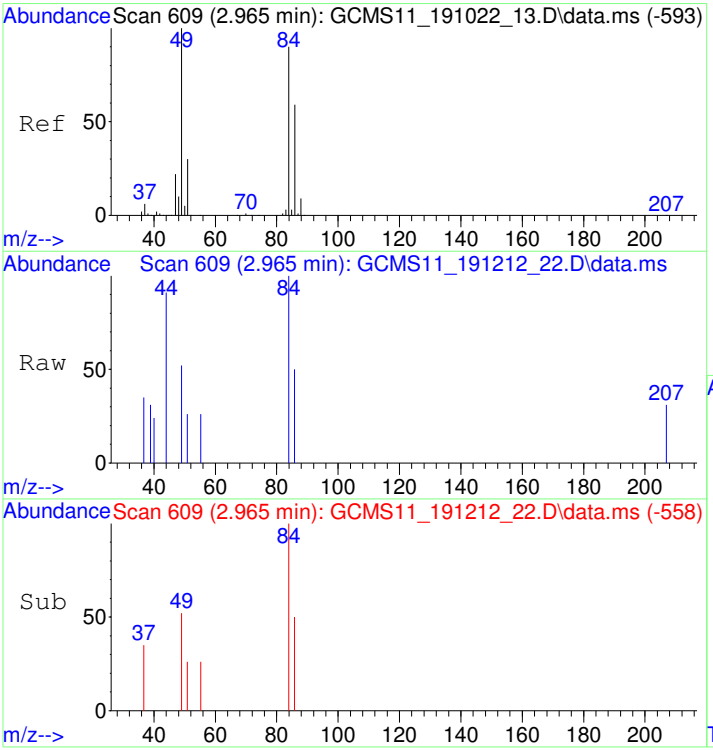


#3
Chloromethane
Concen: 1.99 ng
RT: 1.25 min Scan# 77
Delta R.T. -0.009 min
Lab File: GCMS11_191212_22.D
Acq: 12 Dec 2019 10:53 pm

Tgt Ion: 50 Resp: 564

Ion	Ratio	Lower	Upper
50	100		
52	12.2	2.0	62.0
49	0.0	0.0	40.7

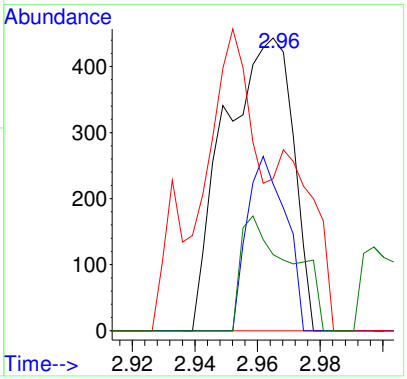


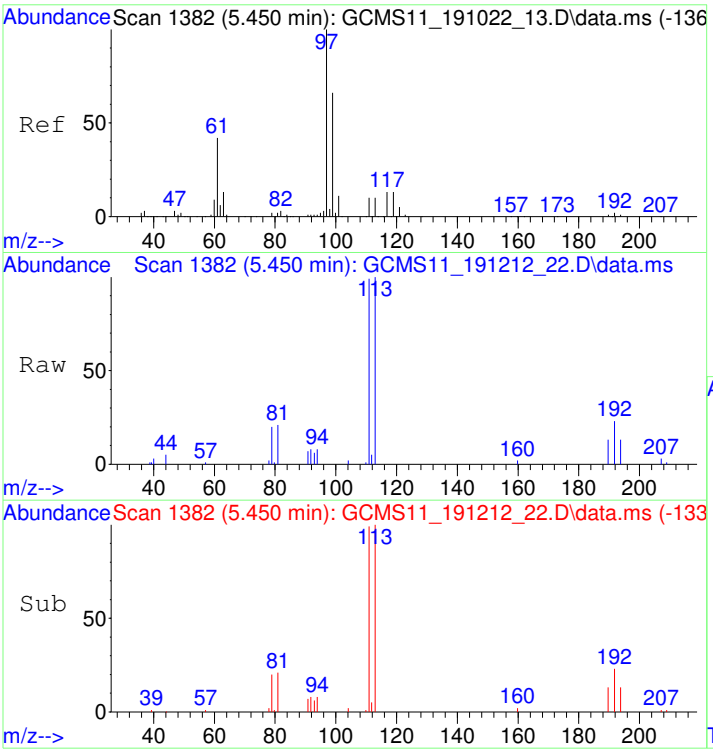


#12
Methylene chloride
Concen: 1.59 ng
RT: 2.96 min Scan# 609
Delta R.T. -0.006 min
Lab File: GCMS11_191212_22.D
Acq: 12 Dec 2019 10:53 pm

Tgt Ion: 84 Resp: 670

Ion	Ratio	Lower	Upper
84	100		
86	33.7	35.2	95.2#
49	45.2	78.3	138.3#
51	28.8	4.0	64.0

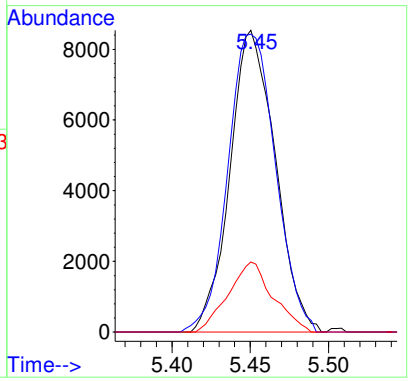


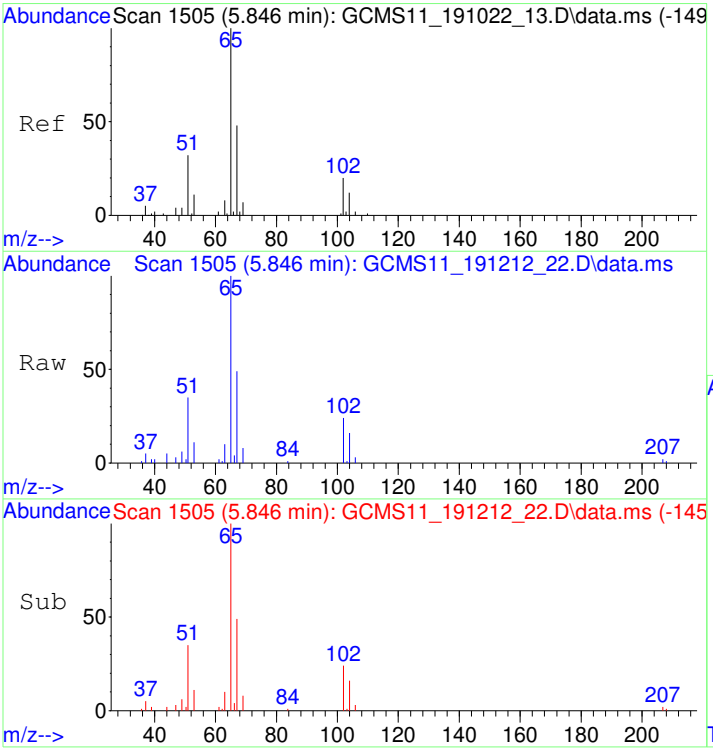


#22
DIBROMOFLUOROMETHANE
Concen: 48.96 ng
RT: 5.45 min Scan# 1382
Delta R.T. -0.009 min
Lab File: GCMS11_191212_22.D
Acq: 12 Dec 2019 10:53 pm

Tgt Ion:113 Resp: 17192

Ion	Ratio	Lower	Upper
113	100		
111	103.7	75.2	135.2
192	22.9	0.0	52.1

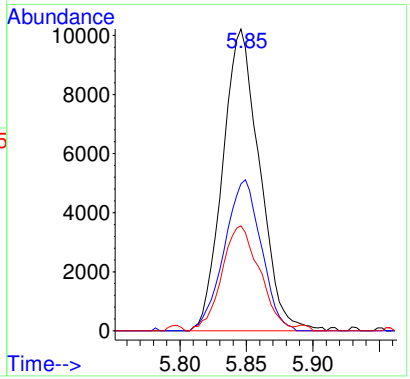


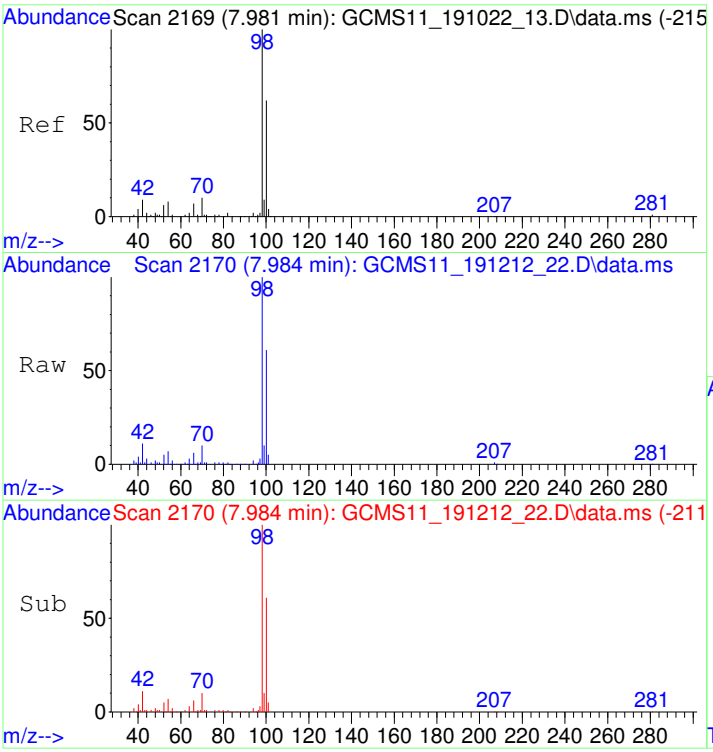


#26
1,2-DICHLOROETHANE-D4
Concen: 47.24 ng
RT: 5.85 min Scan# 1505
Delta R.T. -0.006 min
Lab File: GCMS11_191212_22.D
Acq: 12 Dec 2019 10:53 pm

Tgt Ion: 65 Resp: 19768

Ion	Ratio	Lower	Upper
65	100		
67	50.0	15.4	75.4
51	35.7	2.7	62.7

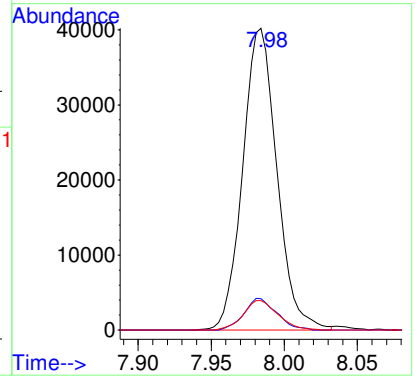


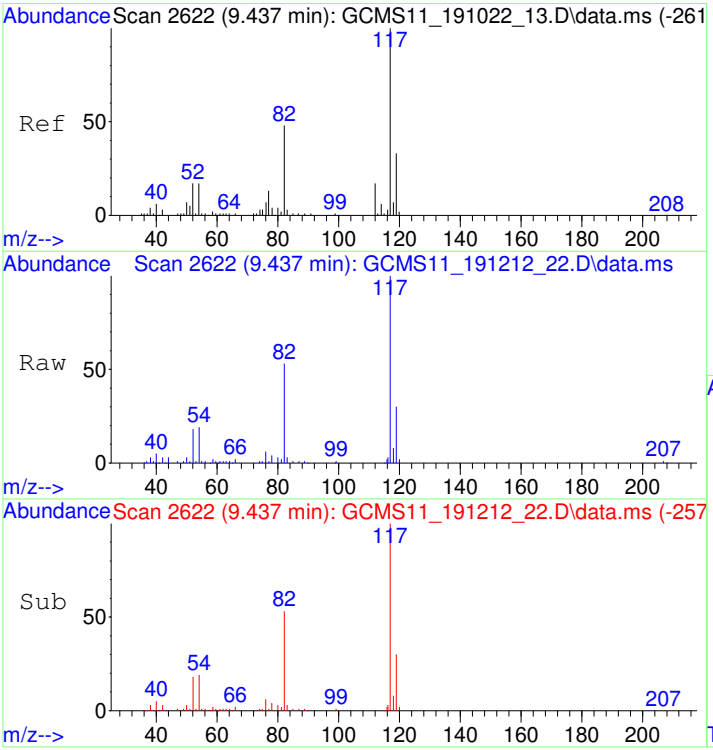


#37
TOLUENE-D8
Concen: 49.87 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191212_22.D
Acq: 12 Dec 2019 10:53 pm

Tgt Ion: 98 Resp: 65575

Ion	Ratio	Lower	Upper
98	100		
99	10.0	0.0	39.8
70	9.9	0.0	40.7

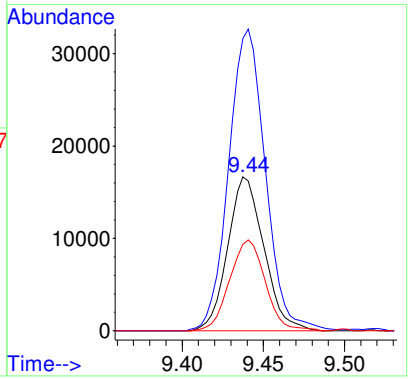


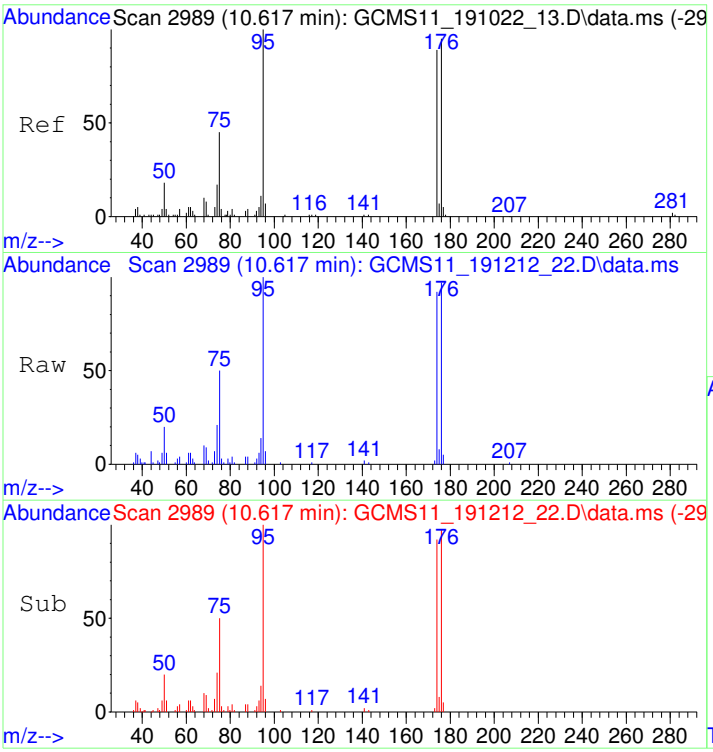


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2622
Delta R.T. -0.003 min
Lab File: GCMS11_191212_22.D
Acq: 12 Dec 2019 10:53 pm

Tgt Ion: 82 Resp: 25836

Ion	Ratio	Lower	Upper
82	100		
117	198.8	160.7	220.7
119	58.1	33.5	93.5

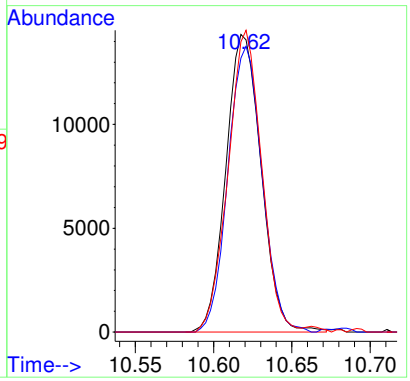


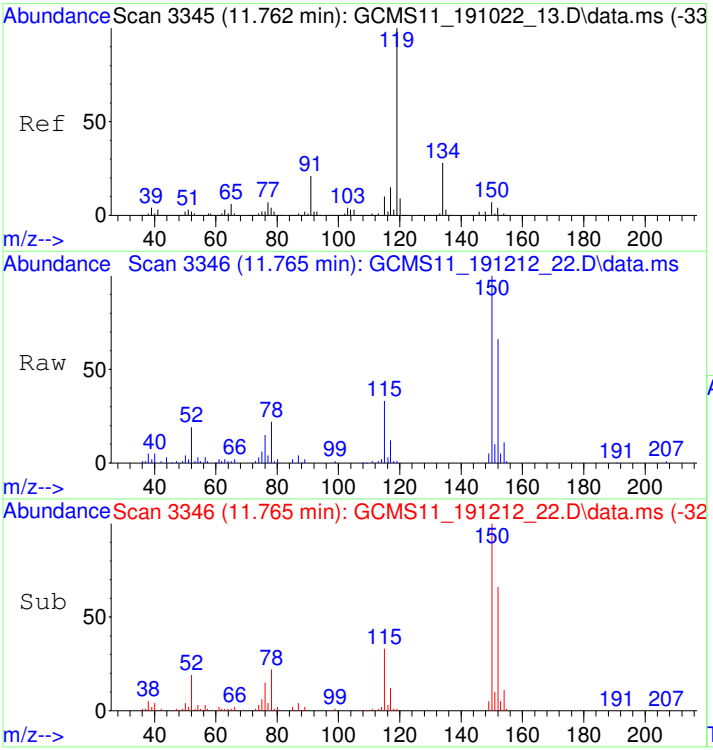


#55
4-BROMOFLUOROBENZENE
Concen: 47.89 ng
RT: 10.62 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191212_22.D
Acq: 12 Dec 2019 10:53 pm

Tgt Ion: 95 Resp: 22435

Ion	Ratio	Lower	Upper
95	100		
174	93.0	68.5	128.5
176	96.1	66.8	126.8

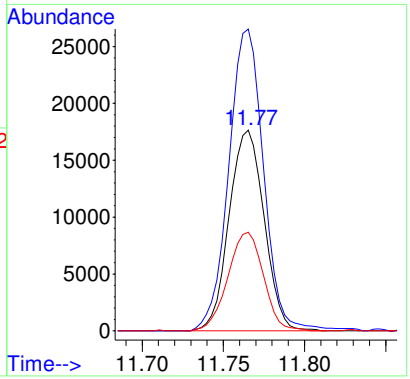


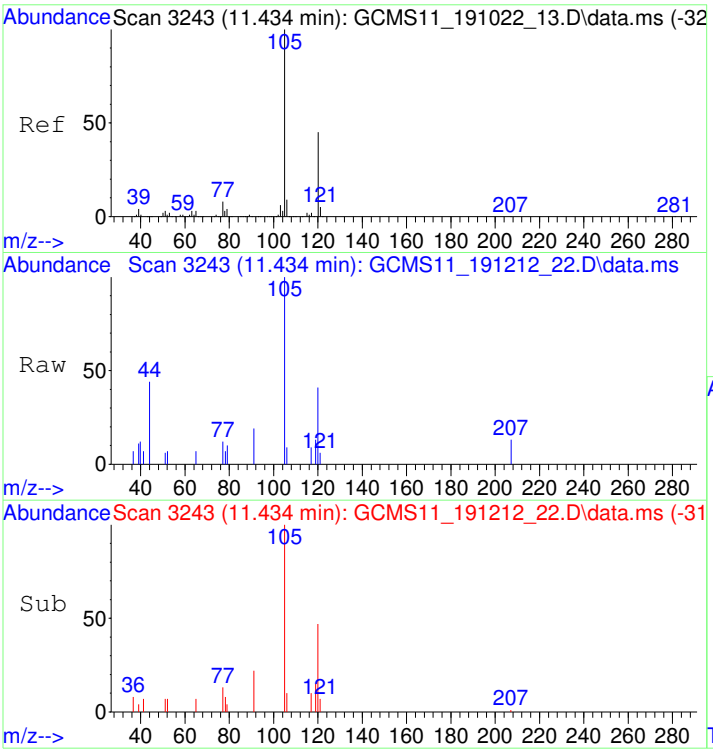


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_22.D
Acq: 12 Dec 2019 10:53 pm

Tgt Ion:152 Resp: 26497

Ion	Ratio	Lower	Upper
152	100		
150	149.8	162.5	222.5#
115	49.8	82.3	142.3#

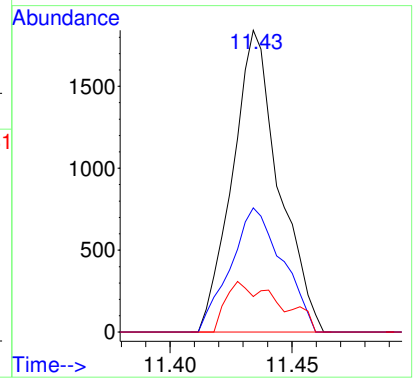




#65
1,2,4-Trimethylbenzene
Concen: 1.71 ng
RT: 11.43 min Scan# 3243
Delta R.T. -0.003 min
Lab File: GCMS11_191212_22.D
Acq: 12 Dec 2019 10:53 pm

Tgt Ion:105 Resp: 2443

Ion	Ratio	Lower	Upper
105	100		
120	46.1	18.6	78.6
77	19.2	0.0	41.4



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_23.D
Acq On : 12 Dec 2019 11:24 pm
Operator : ko
Sample : 1912009-07
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 18 Sample Multiplier: 1

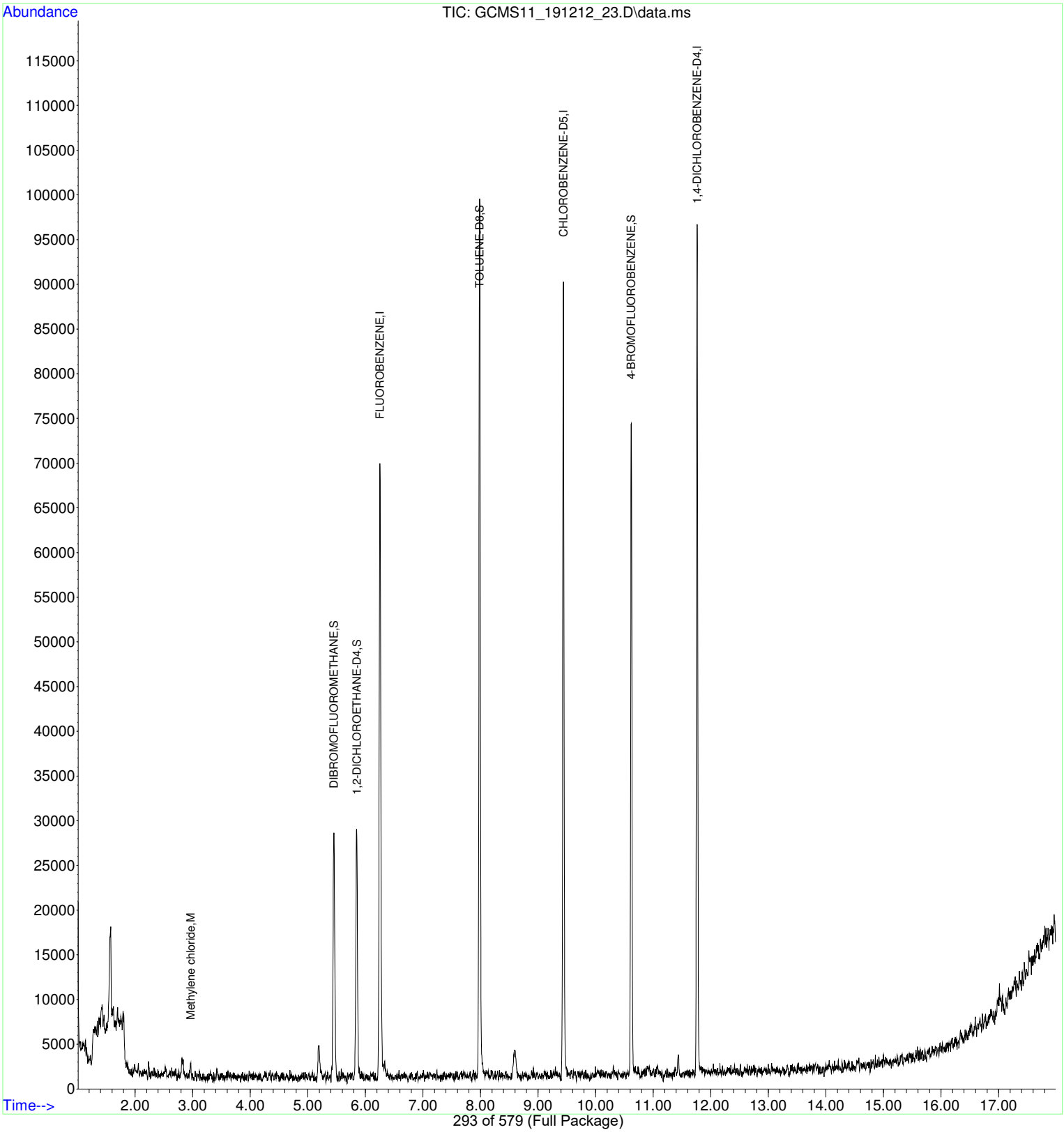
Quant Time: Dec 13 10:54:27 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

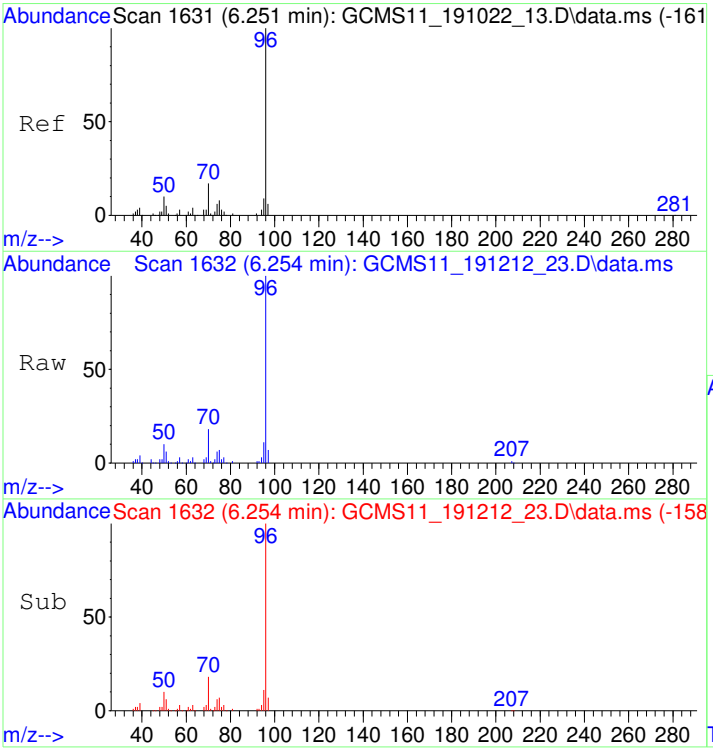
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.25	96	64370	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	24224	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	24676	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.45	113	16947	50.13	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	19765	49.06	ng	0.00
37) TOLUENE-D8	7.98	98	63793	50.39	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	20875	47.53	ng	0.00
Target Compounds						Qvalue
12) Methylene chloride	2.96	84	408	1.01	ng	77

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_23.D
Acq On : 12 Dec 2019 11:24 pm
Operator : ko
Sample : 1912009-07
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 13 10:54:27 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

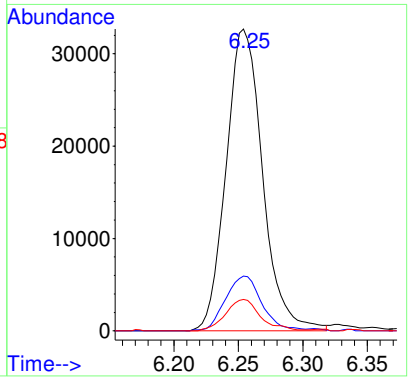


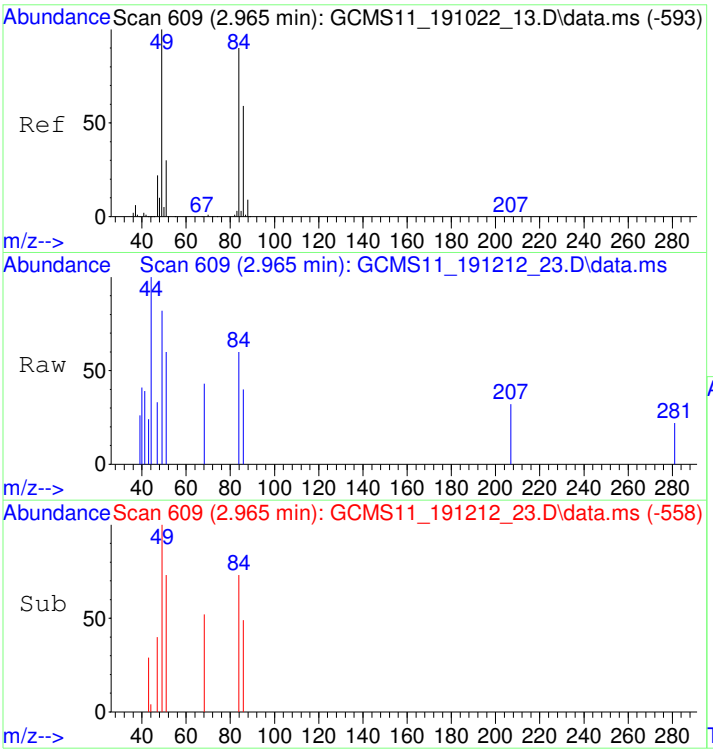


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191212_23.D
Acq: 12 Dec 2019 11:24 pm

Tgt Ion: 96 Resp: 64370

Ion	Ratio	Lower	Upper
96	100		
70	18.1	0.0	48.3
50	10.0	0.0	39.5

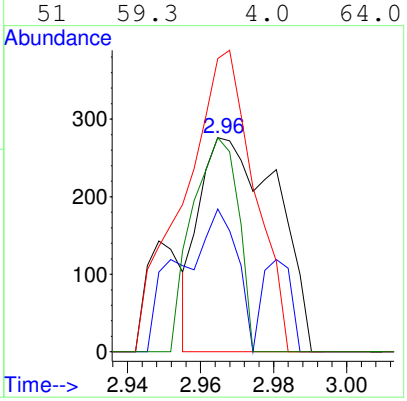


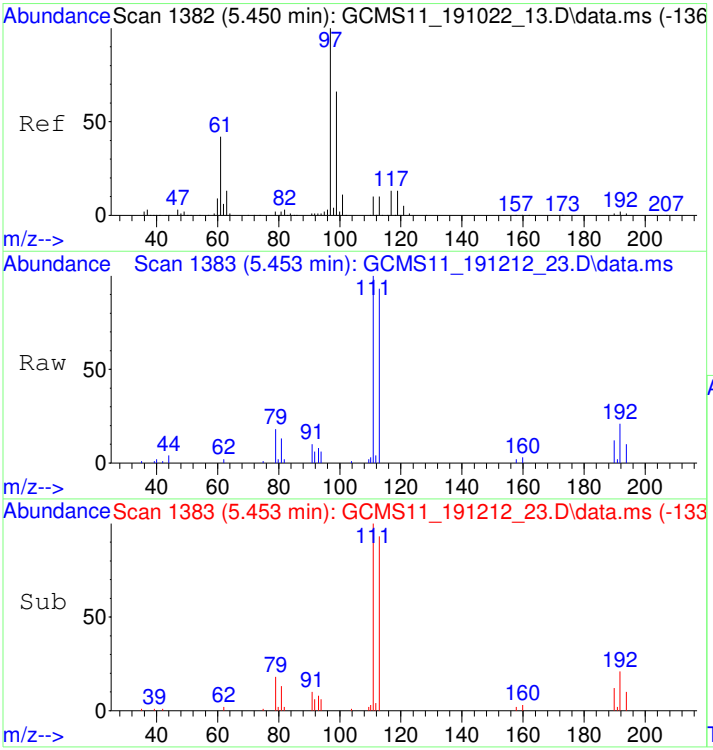


#12
Methylene chloride
Concen: 1.01 ng
RT: 2.96 min Scan# 609
Delta R.T. -0.006 min
Lab File: GCMS11_191212_23.D
Acq: 12 Dec 2019 11:24 pm

Tgt Ion: 84 Resp: 408

Ion	Ratio	Lower	Upper
84	100		
86	49.0	35.2	95.2
49	127.5	78.3	138.3
51	59.3	4.0	64.0

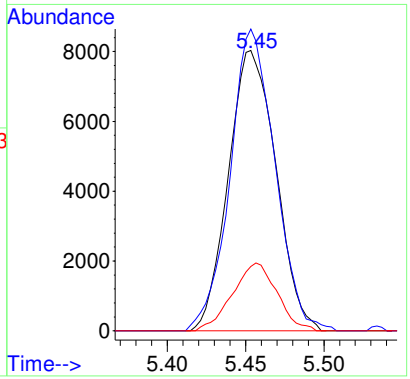


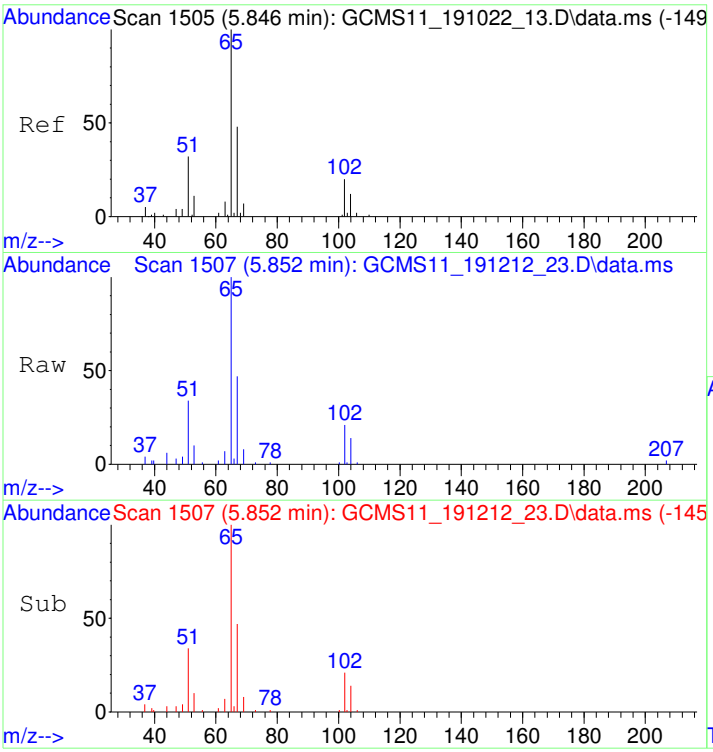


#22
DIBROMOFLUOROMETHANE
Concen: 50.13 ng
RT: 5.45 min Scan# 1383
Delta R.T. -0.006 min
Lab File: GCMS11_191212_23.D
Acq: 12 Dec 2019 11:24 pm

Tgt Ion:113 Resp: 16947

Ion	Ratio	Lower	Upper
113	100		
111	101.8	75.2	135.2
192	22.7	0.0	52.1

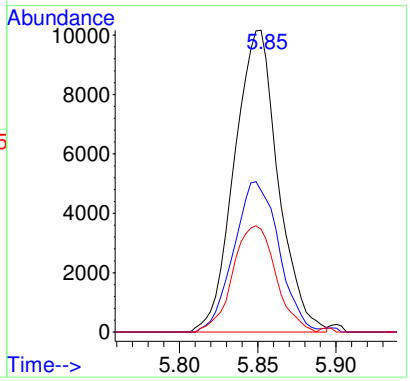


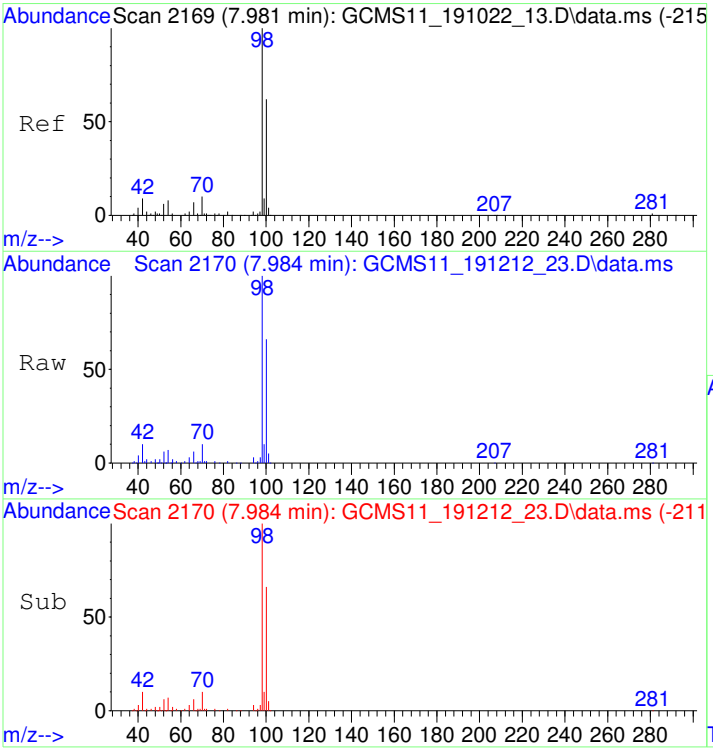


#26
1,2-DICHLOROETHANE-D4
Concen: 49.06 ng
RT: 5.85 min Scan# 1507
Delta R.T. -0.000 min
Lab File: GCMS11_191212_23.D
Acq: 12 Dec 2019 11:24 pm

Tgt Ion: 65 Resp: 19765

Ion	Ratio	Lower	Upper
65	100		
67	51.3	15.4	75.4
51	34.6	2.7	62.7

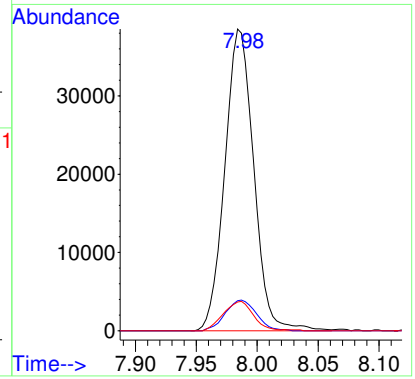


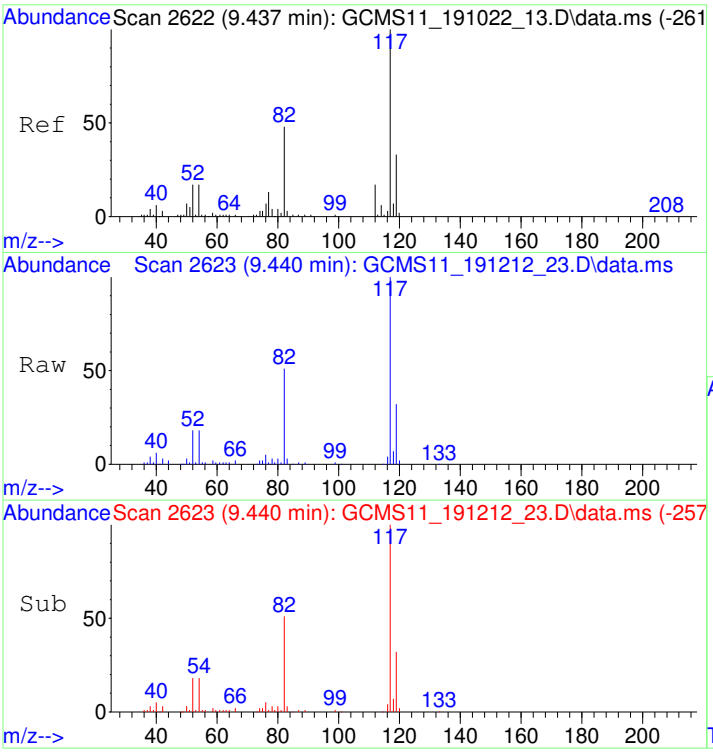


#37
TOLUENE-D8
Concen: 50.39 ng
RT: 7.98 min Scan# 2170
Delta R.T. -0.000 min
Lab File: GCMS11_191212_23.D
Acq: 12 Dec 2019 11:24 pm

Tgt Ion: 98 Resp: 63793

Ion	Ratio	Lower	Upper
98	100		
99	11.0	0.0	39.8
70	10.3	0.0	40.7

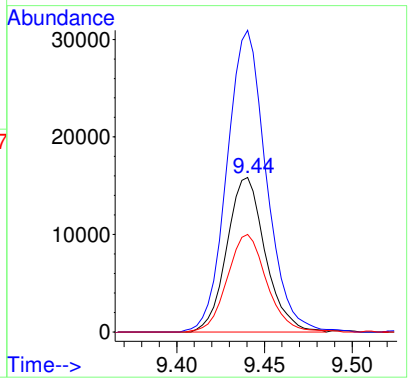


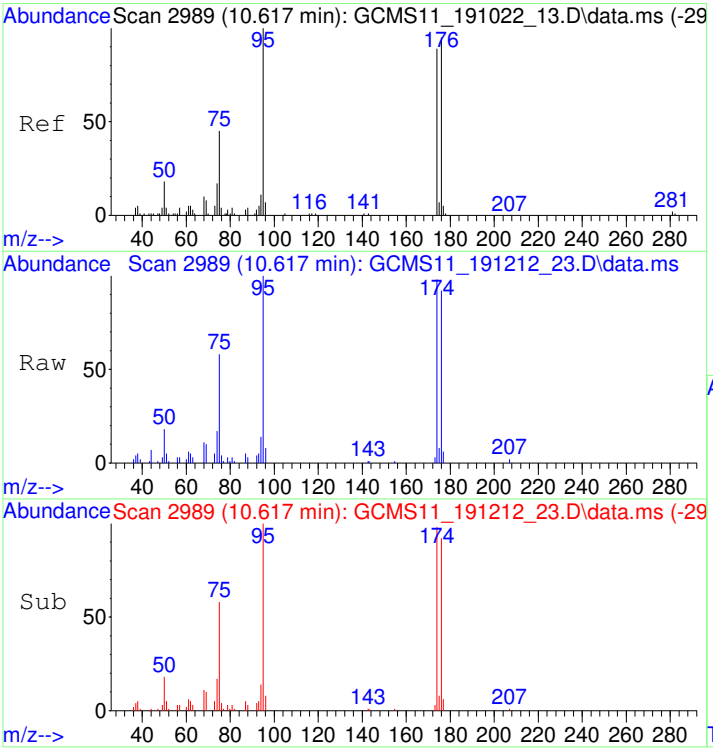


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191212_23.D
Acq: 12 Dec 2019 11:24 pm

Tgt Ion: 82 Resp: 24224

Ion	Ratio	Lower	Upper
82	100		
117	200.0	160.7	220.7
119	64.9	33.5	93.5

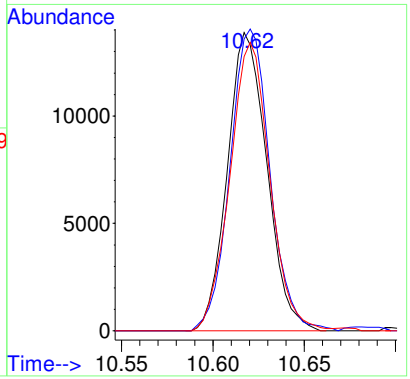


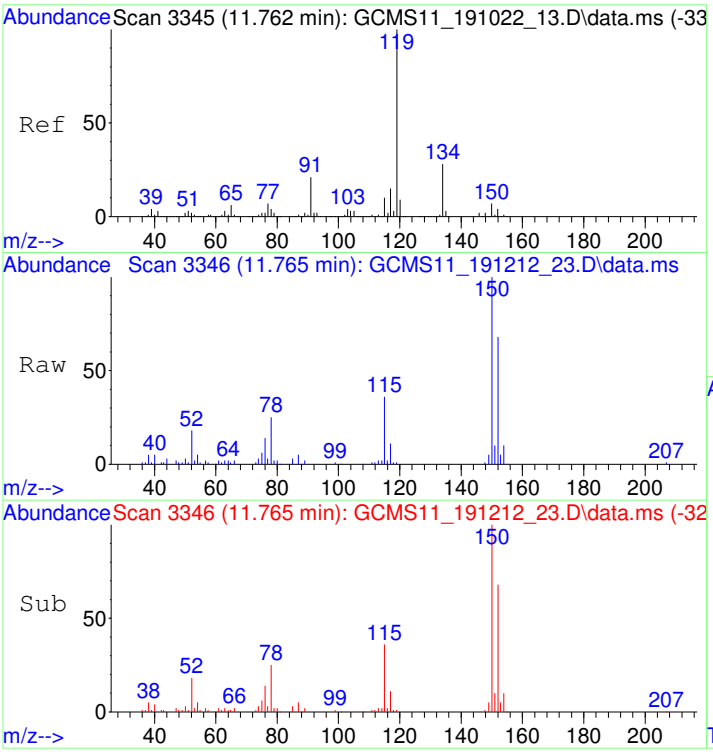


#55
4-BROMOFLUOROBENZENE
Concen: 47.53 ng
RT: 10.62 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191212_23.D
Acq: 12 Dec 2019 11:24 pm

Tgt Ion: 95 Resp: 20875

Ion	Ratio	Lower	Upper
95	100		
174	102.4	68.5	128.5
176	97.8	66.8	126.8

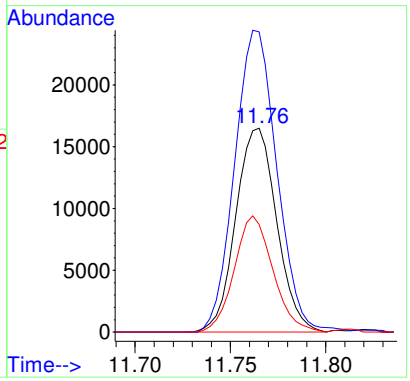




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.76 min Scan# 3346
Delta R.T. -0.000 min
Lab File: GCMS11_191212_23.D
Acq: 12 Dec 2019 11:24 pm

Tgt Ion:152 Resp: 24676

Ion	Ratio	Lower	Upper
152	100		
150	152.7	162.5	222.5#
115	53.6	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_24.D
Acq On : 12 Dec 2019 11:55 pm
Operator : ko
Sample : 1912009-08
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 19 Sample Multiplier: 1

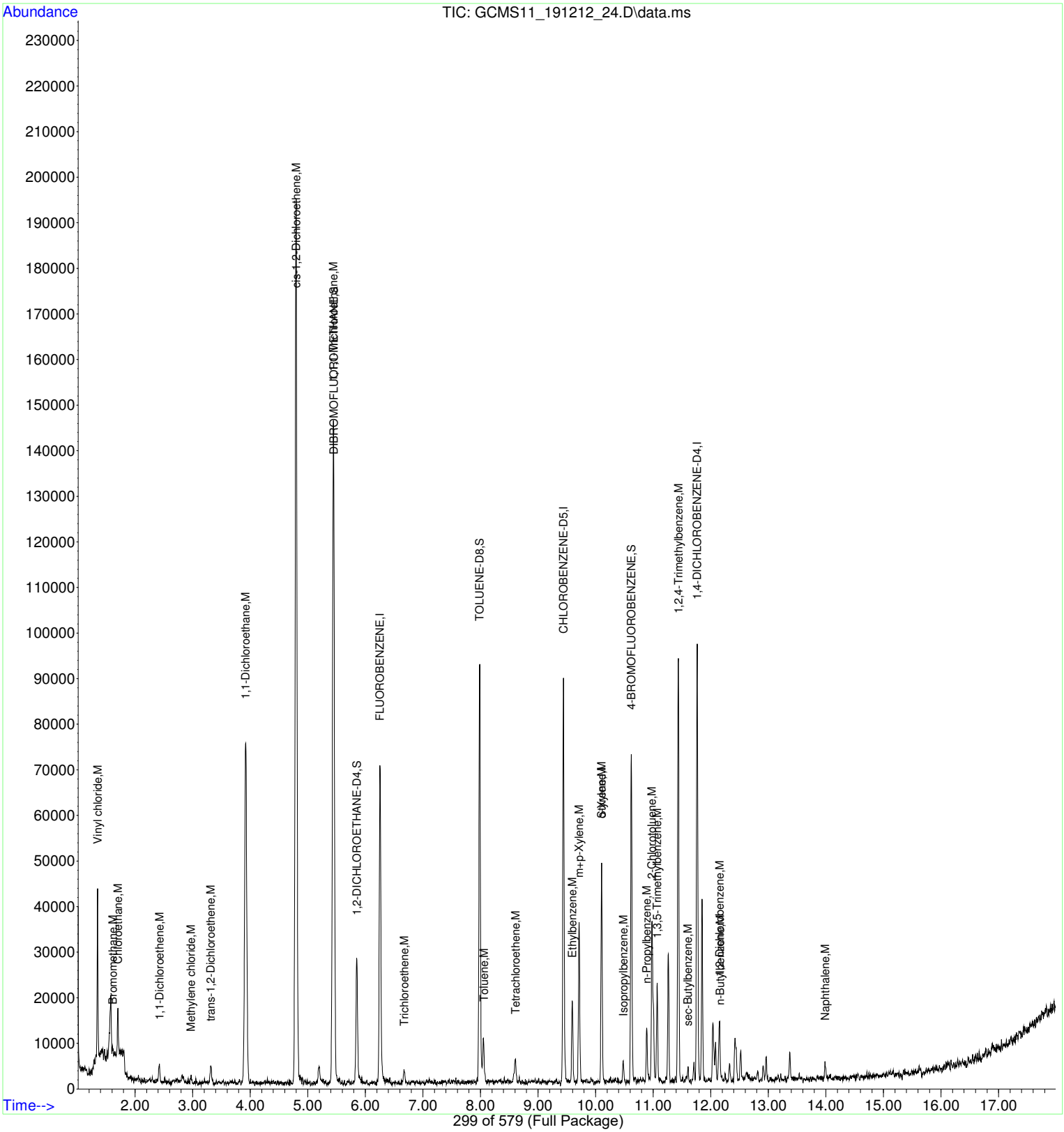
Quant Time: Dec 13 10:56:11 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

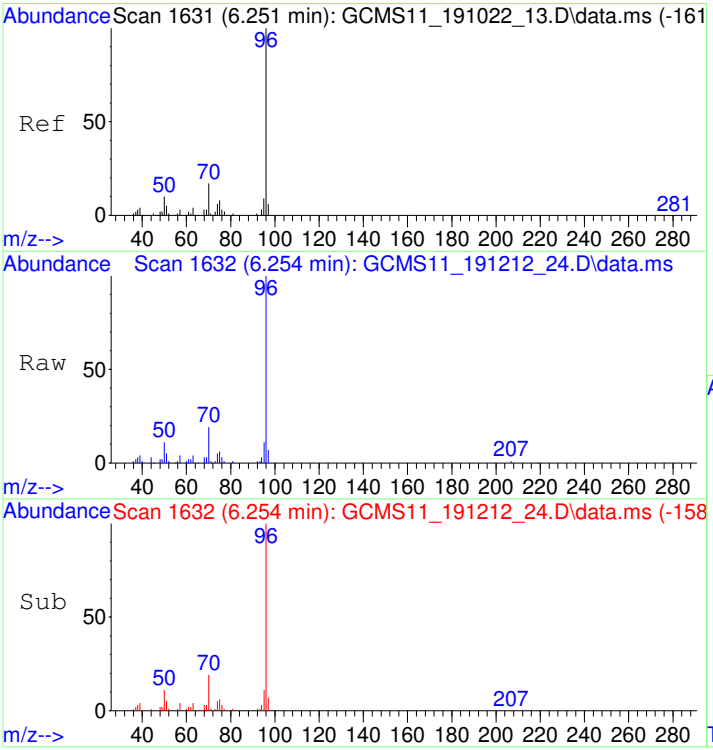
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.25	96	64316	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	23901	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	26402	50.00	ng		# 0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.45	113	16849	49.88	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	19179	47.64	ng		0.00
37) TOLUENE-D8	7.98	98	63983	50.58	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	21094	48.68	ng		0.00
Target Compounds							Qvalue
4) Vinyl chloride	1.35	62	20246	58.46	ng		99
5) Bromomethane	1.61	96	477	1.65	ng	#	70
6) Chloroethane	1.70	64	5789	22.87	ng		92
9) 1,1-Dichloroethene	2.42	96	1724	5.16	ng	#	79
12) Methylene chloride	2.97	84	466	1.15	ng		95
14) trans-1,2-Dichloroethene	3.32	96	1838	4.88	ng	#	80
16) 1,1-Dichloroethane	3.92	63	87993	141.60	ng		99
18) cis-1,2-Dichloroethene	4.80	96	103047	253.71	ng		91
23) 1,1,1-Trichloroethane	5.44	97	89989	159.68	ng		98
29) Trichloroethene	6.68	95	1053	2.86	ng	#	51
38) Toluene	8.06	92	3890	4.46	ng		85
42) Tetrachloroethene	8.61	164	630	2.09	ng	#	65
49) Ethylbenzene	9.59	106	3835	7.25	ng		86
50) m+p-Xylene	9.71	106	10135	15.14	ng		96
51) o-Xylene	10.10	106	11669	18.05	ng		97
52) Styrene	10.10	103	1607	2.63	ng	#	21
54) Isopropylbenzene	10.48	105	2933	1.72	ng		97
58) n-Propylbenzene	10.89	91	8554	4.46	ng		99
59) 2-Chlorotoluene	10.98	91	3933	3.51	ng	#	45
60) 1,3,5-Trimethylbenzene	11.07	105	11234	8.08	ng		95
65) 1,2,4-Trimethylbenzene	11.44	105	48214	33.84	ng		98
66) sec-Butylbenzene	11.60	105	2022	1.16	ng	#	78
70) 1,2-Dichlorobenzene	12.15	146	1560	1.77	ng		80
71) n-Butylbenzene	12.16	91	1977	1.45	ng	#	70
75) Naphthalene	13.99	128	3480	2.29	ng		93

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_24.D
Acq On : 12 Dec 2019 11:55 pm
Operator : ko
Sample : 1912009-08
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 13 10:56:11 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

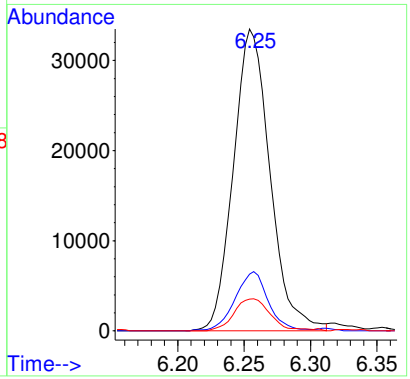


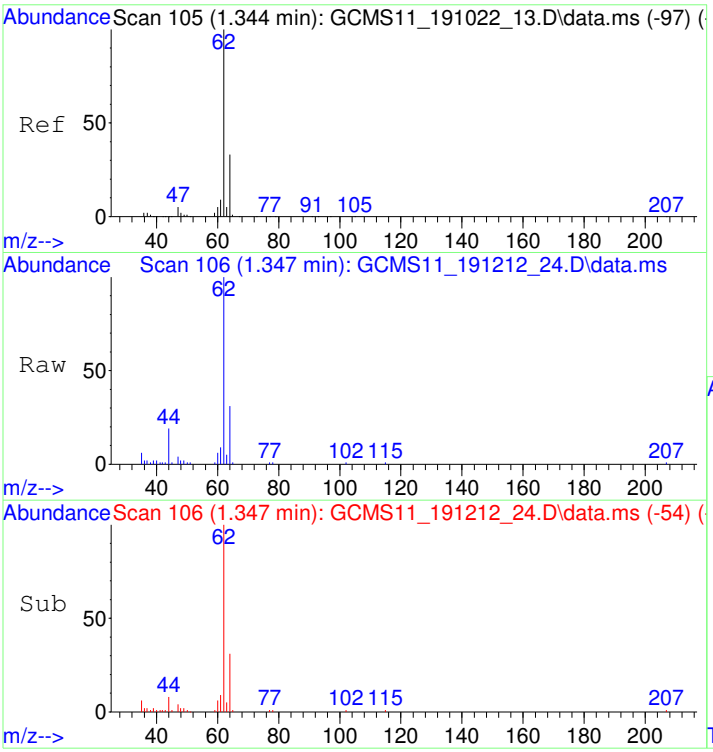


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 96 Resp: 64316

Ion	Ratio	Lower	Upper
96	100		
70	17.8	0.0	48.3
50	10.7	0.0	39.5

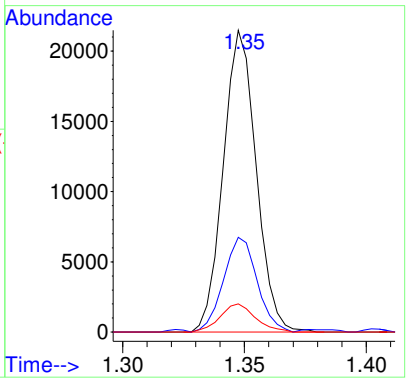


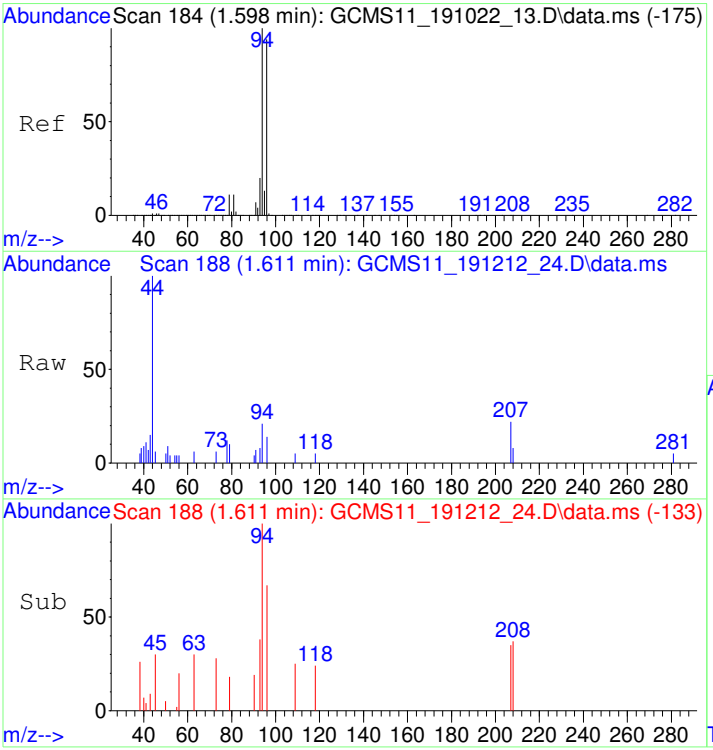


#4
Vinyl chloride
Concen: 58.46 ng
RT: 1.35 min Scan# 106
Delta R.T. -0.003 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 62 Resp: 20246

Ion	Ratio	Lower	Upper
62	100		
64	32.1	2.7	62.7
61	10.0	0.0	39.4

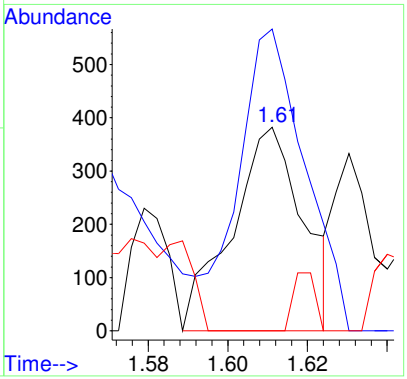


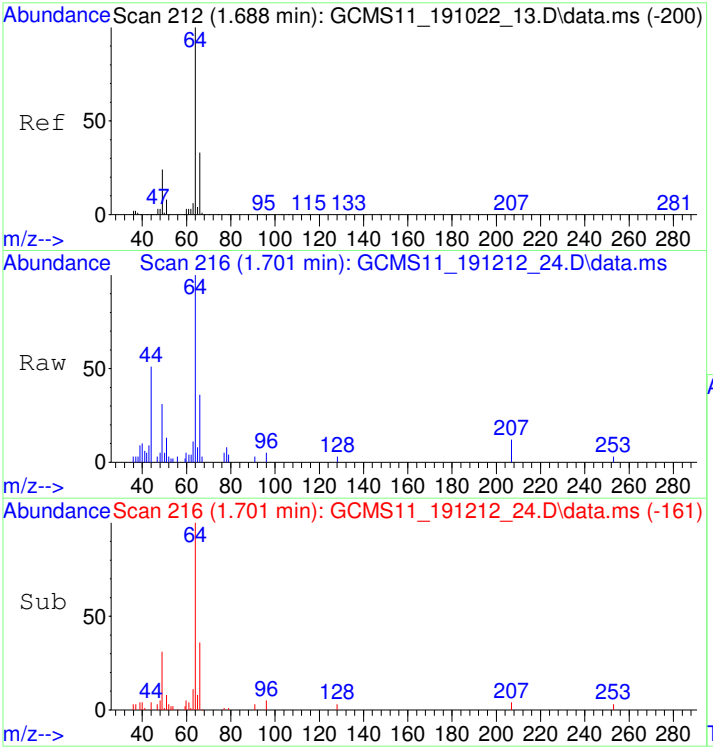


#5
Bromomethane
Concen: 1.65 ng
RT: 1.61 min Scan# 188
Delta R.T. 0.006 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 96 Resp: 477

Ion	Ratio	Lower	Upper
96	100		
94	138.2	74.8	134.8#
81	8.8	0.0	42.0

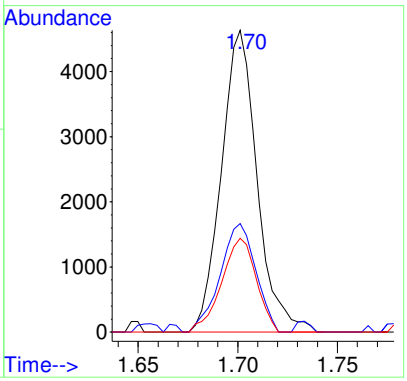


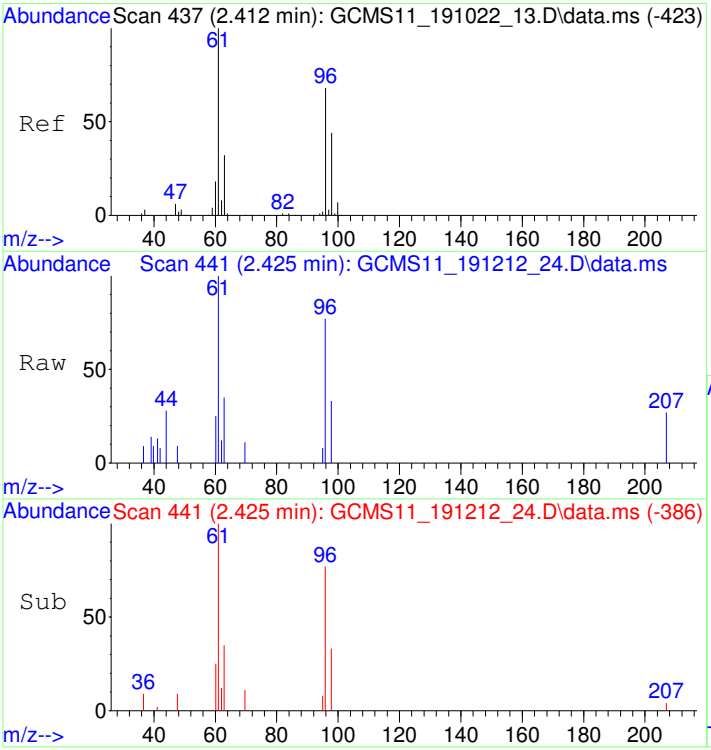


#6
Chloroethane
Concen: 22.87 ng
RT: 1.70 min Scan# 216
Delta R.T. 0.006 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 64 Resp: 5789

Ion	Ratio	Lower	Upper
64	100		
66	35.8	3.3	63.3
49	30.1	0.0	53.3

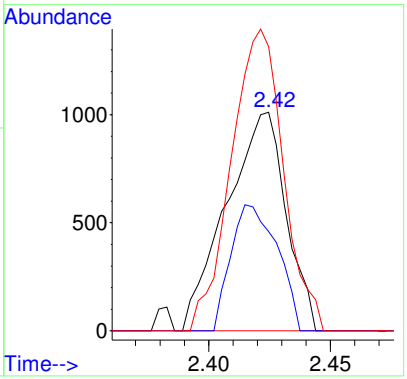


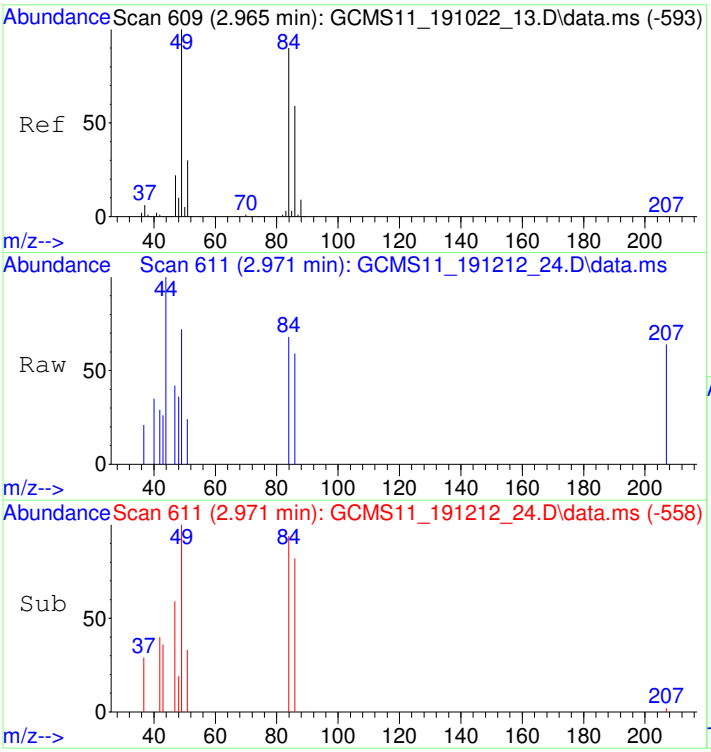


#9
1,1-Dichloroethene
Concen: 5.16 ng
RT: 2.42 min Scan# 441
Delta R.T. 0.006 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 96 Resp: 1724

Ion	Ratio	Lower	Upper
96	100		
63	44.9	20.7	80.7
61	120.9	123.9	183.9#

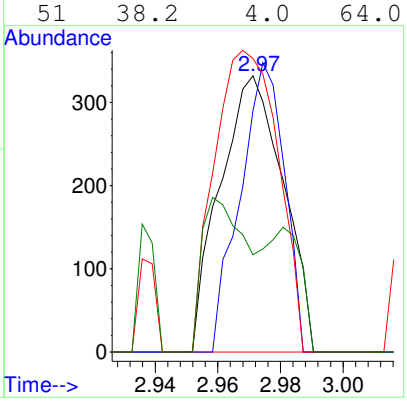


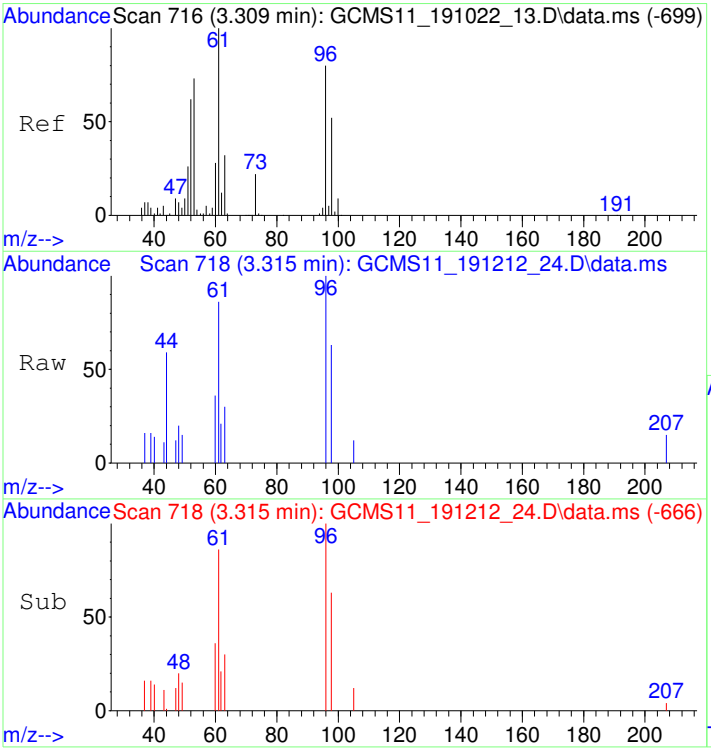


#12
Methylene chloride
Concen: 1.15 ng
RT: 2.97 min Scan# 611
Delta R.T. 0.000 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 84 Resp: 466

Ion	Ratio	Lower	Upper
84	100		
86	73.4	35.2	95.2
49	110.1	78.3	138.3
51	38.2	4.0	64.0

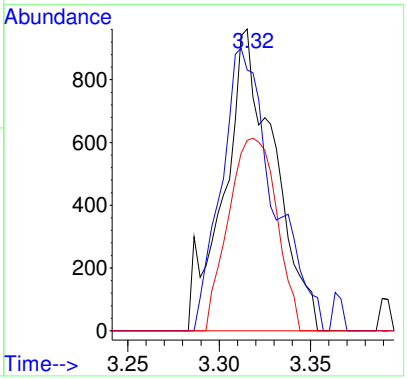


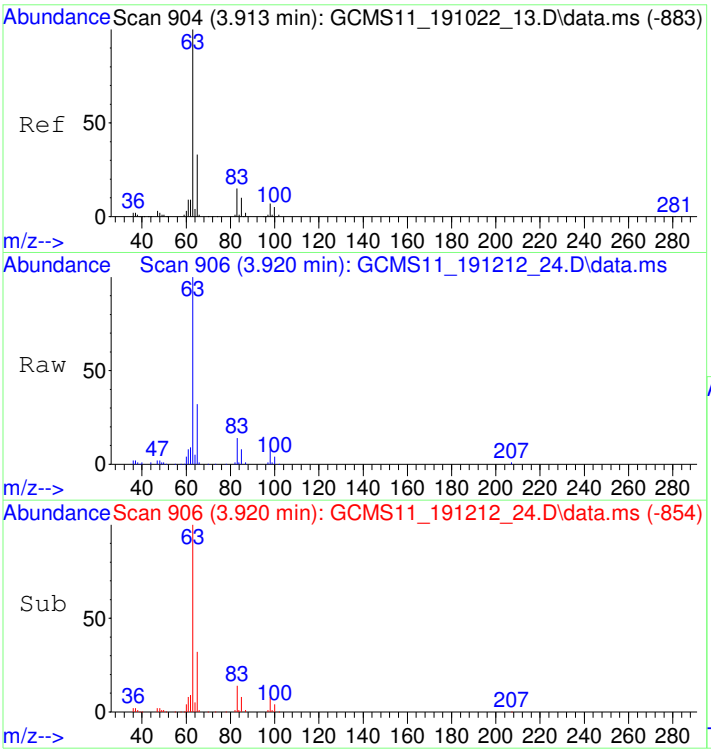


#14
trans-1,2-Dichloroethene
Concen: 4.88 ng
RT: 3.32 min Scan# 718
Delta R.T. -0.003 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 96 Resp: 1838

Ion	Ratio	Lower	Upper
96	100		
61	97.3	99.6	159.6#
98	61.3	35.3	95.3

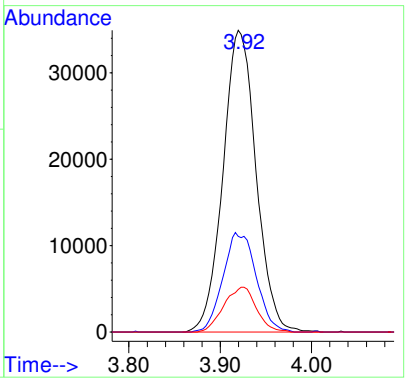


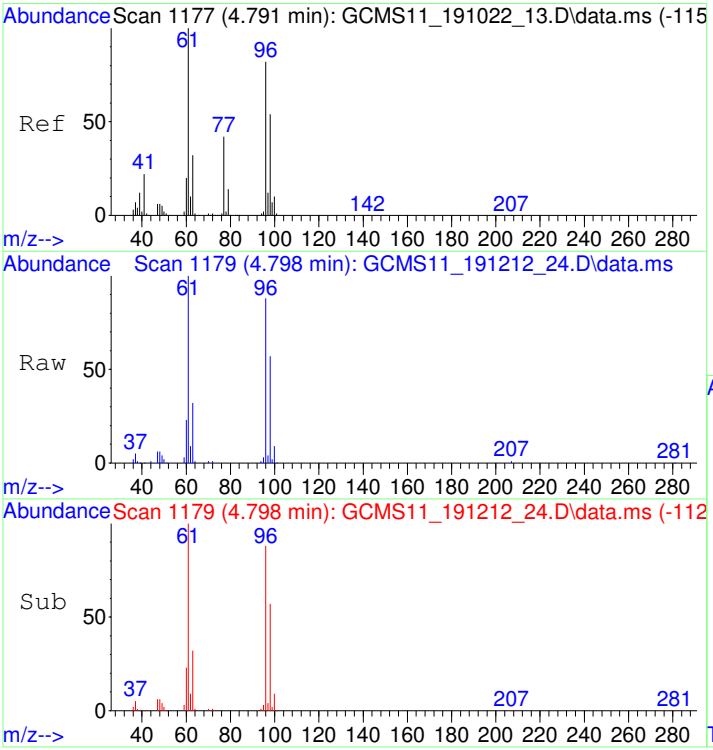


#16
1,1-Dichloroethane
Concen: 141.60 ng
RT: 3.92 min Scan# 906
Delta R.T. -0.003 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 63 Resp: 87993

Ion	Ratio	Lower	Upper
63	100		
65	33.1	2.8	62.8
83	14.7	0.0	44.3

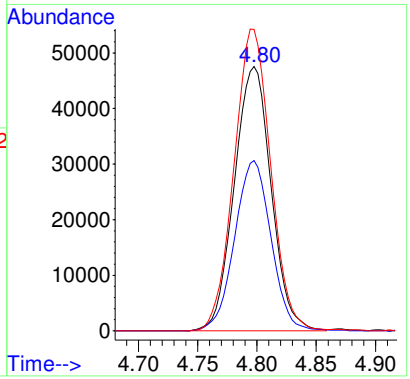


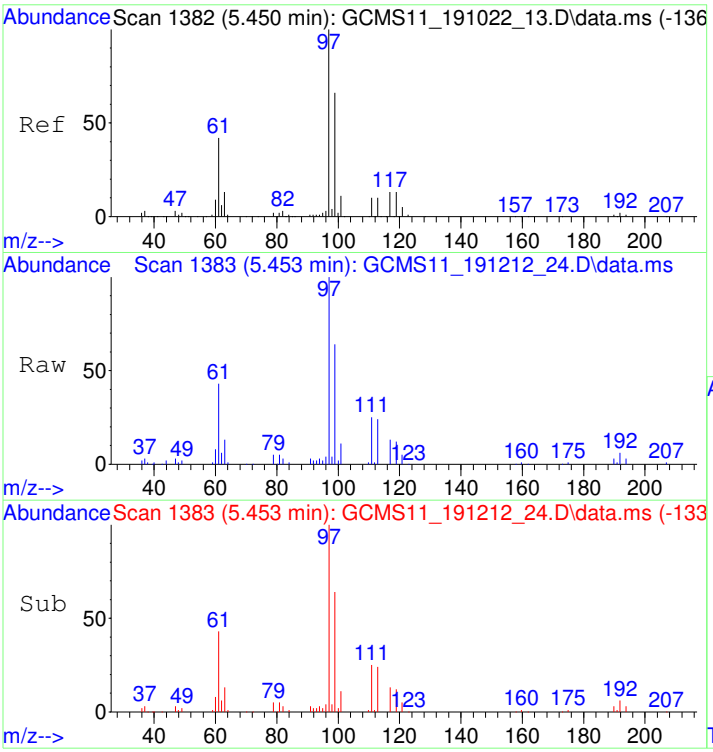


#18
cis-1,2-Dichloroethene
Concen: 253.71 ng
RT: 4.80 min Scan# 1179
Delta R.T. -0.003 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 96 Resp: 103047

Ion	Ratio	Lower	Upper
96	100		
98	63.5	30.6	90.6
61	113.5	96.6	156.6

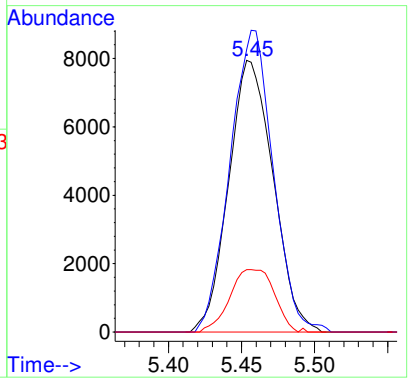


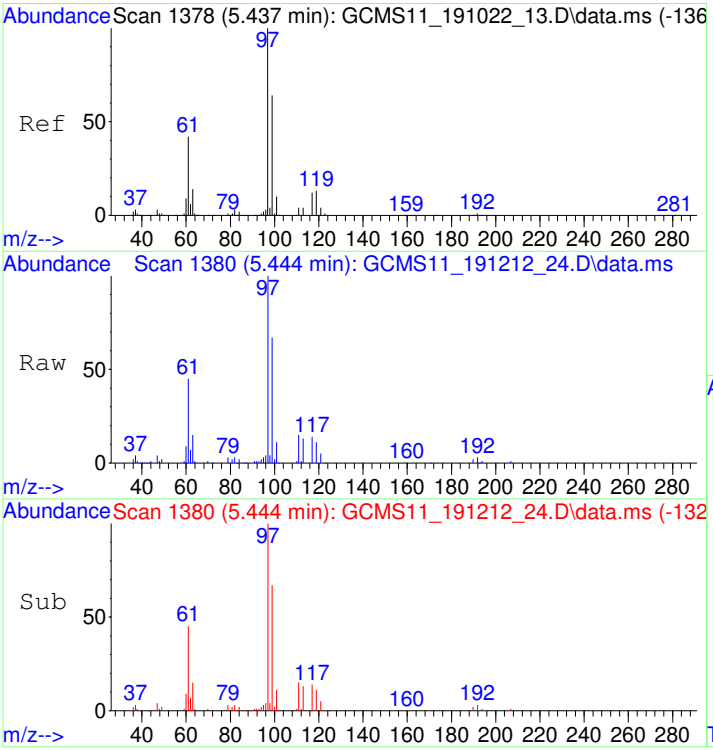


#22
DIBROMOFLUOROMETHANE
Concen: 49.88 ng
RT: 5.45 min Scan# 1383
Delta R.T. -0.006 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion:113 Resp: 16849

Ion	Ratio	Lower	Upper
113	100		
111	107.8	75.2	135.2
192	23.1	0.0	52.1

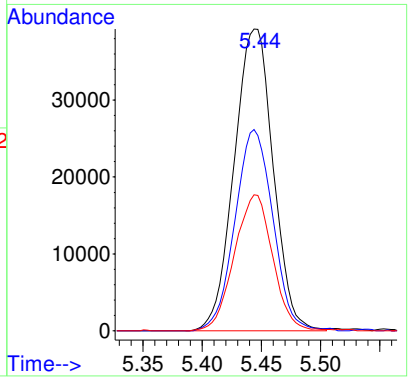


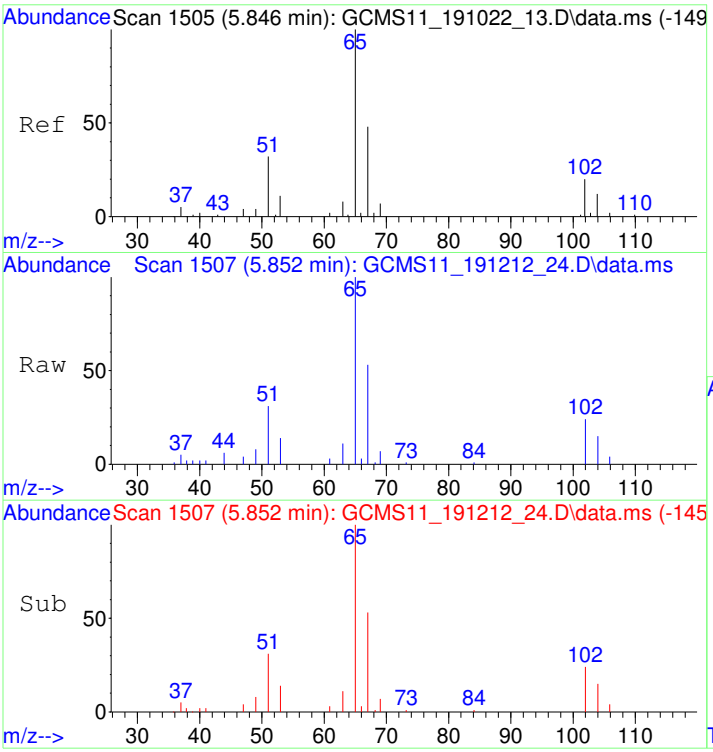


#23
1,1,1-Trichloroethane
Concen: 159.68 ng
RT: 5.44 min Scan# 1380
Delta R.T. 0.000 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 97 Resp: 89989

Ion	Ratio	Lower	Upper
97	100		
99	64.7	32.7	92.7
61	44.3	13.1	73.1

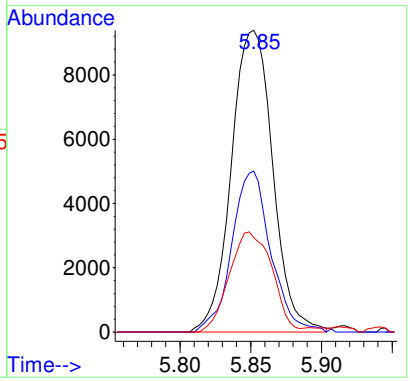


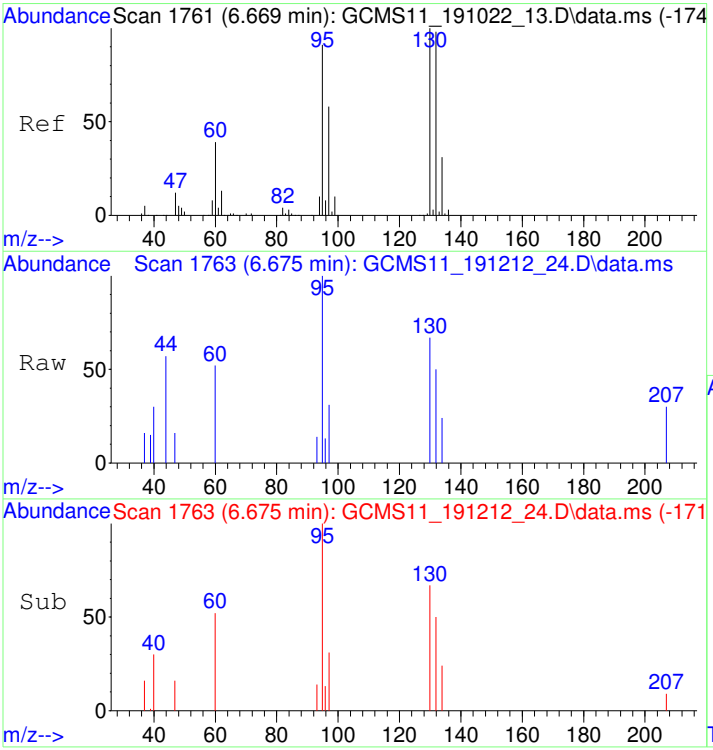


#26
1,2-DICHLOROETHANE-D4
Concen: 47.64 ng
RT: 5.85 min Scan# 1507
Delta R.T. 0.000 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 65 Resp: 19179

Ion	Ratio	Lower	Upper
65	100		
67	50.2	15.4	75.4
51	34.2	2.7	62.7

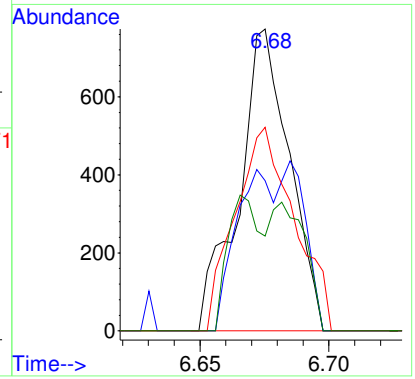


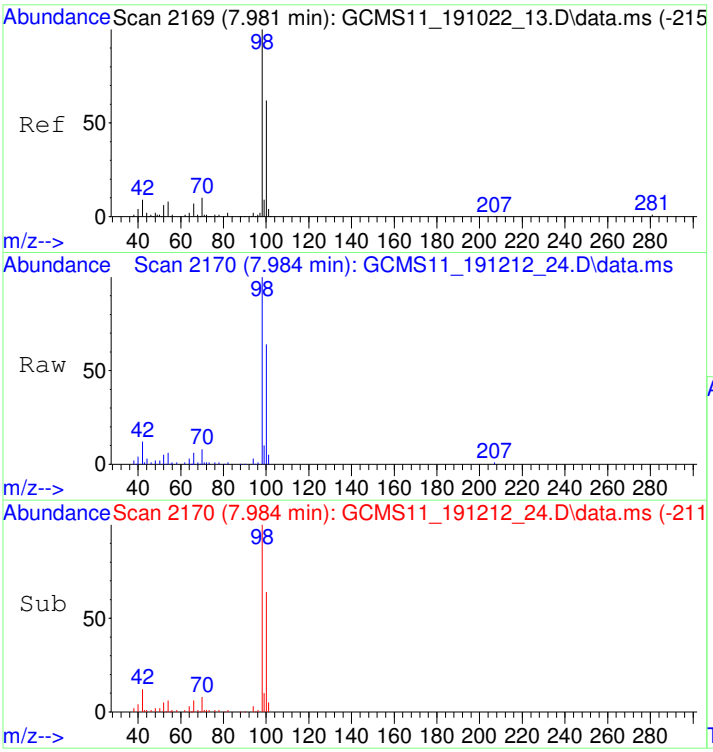


#29
Trichloroethene
Concen: 2.86 ng
RT: 6.68 min Scan# 1763
Delta R.T. 0.000 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 95 Resp: 1053

Ion	Ratio	Lower	Upper
95	100		
132	39.9	78.7	138.7#
130	78.8	86.1	146.1#
97	28.9	37.2	97.2#

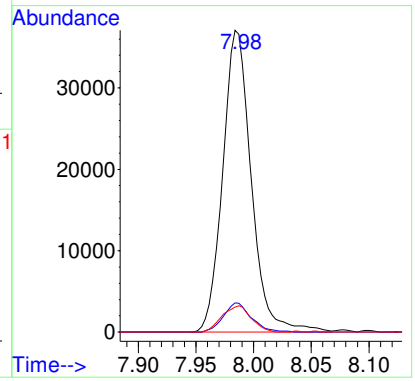


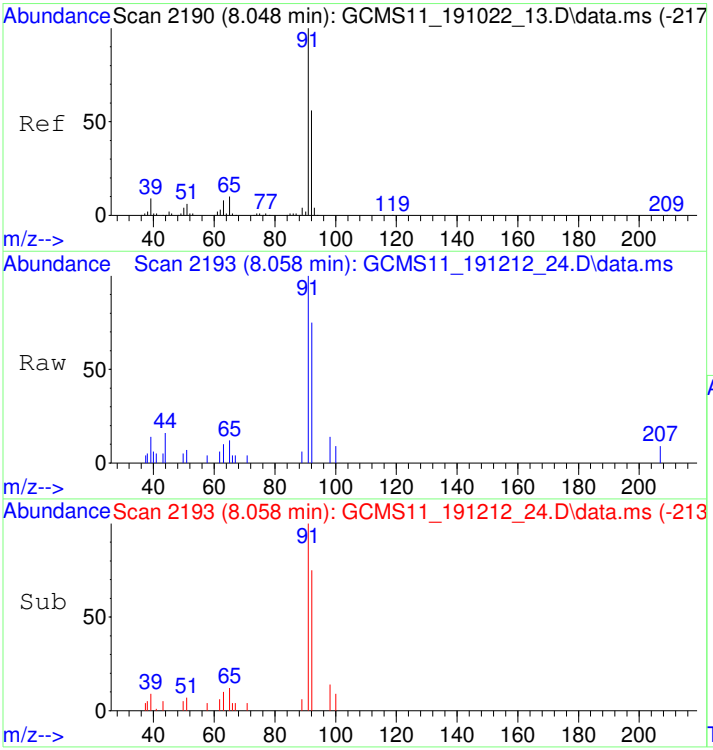


#37
TOLUENE-D8
Concen: 50.58 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 98 Resp: 63983

Ion	Ratio	Lower	Upper
98	100		
99	9.4	0.0	39.8
70	8.9	0.0	40.7

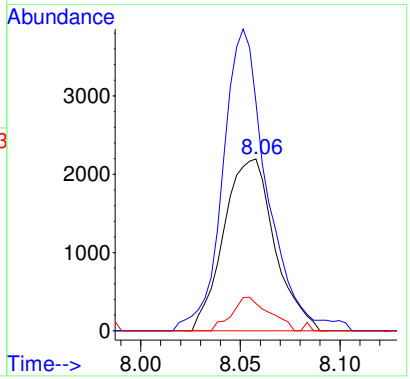


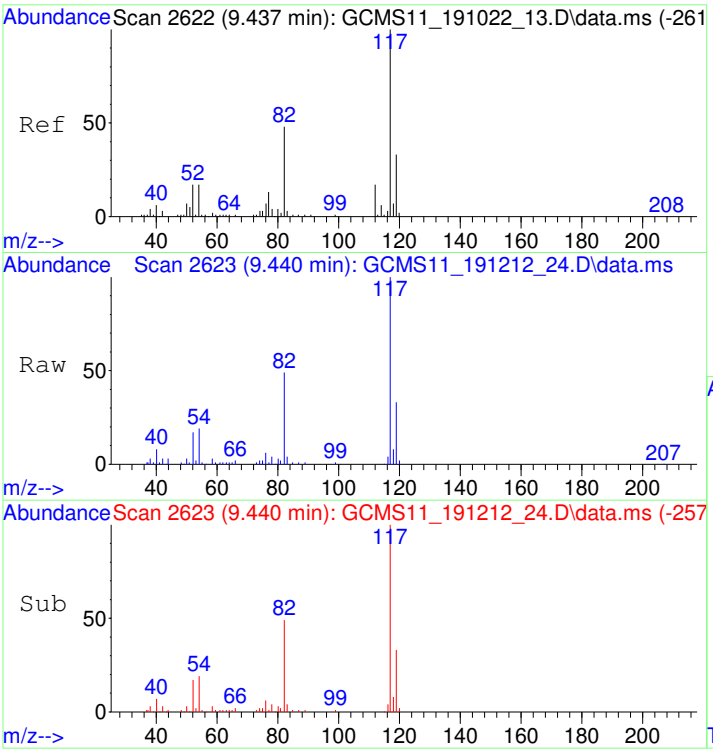


#38
Toluene
Concen: 4.46 ng
RT: 8.06 min Scan# 2193
Delta R.T. 0.003 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 92 Resp: 3890

Ion	Ratio	Lower	Upper
92	100		
91	153.1	145.1	205.1
65	14.4	0.0	48.1

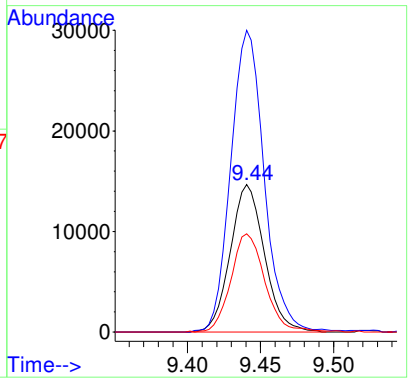


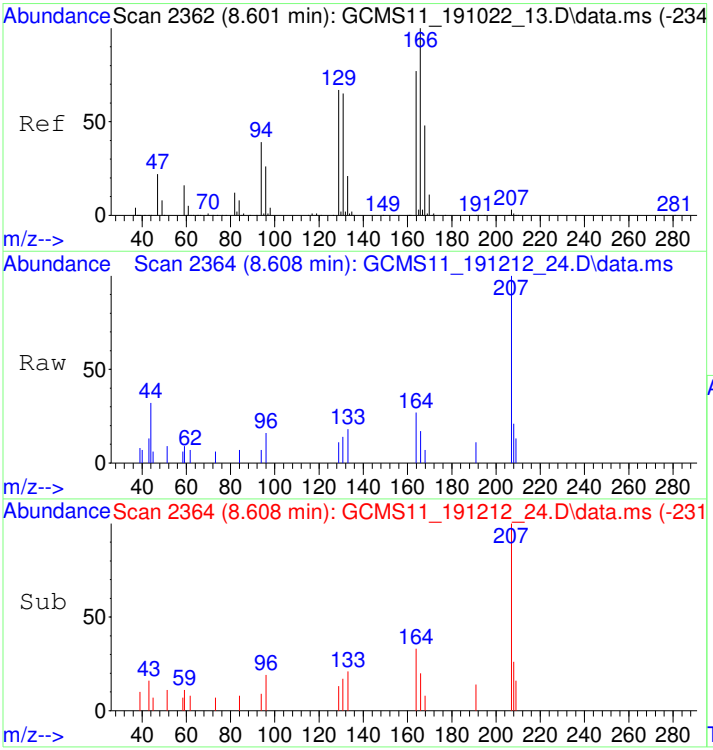


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 82 Resp: 23901

Ion	Ratio	Lower	Upper
82	100		
117	200.3	160.7	220.7
119	66.6	33.5	93.5

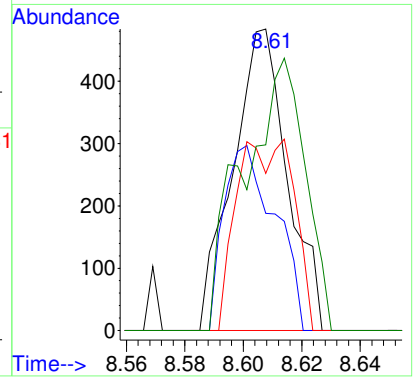


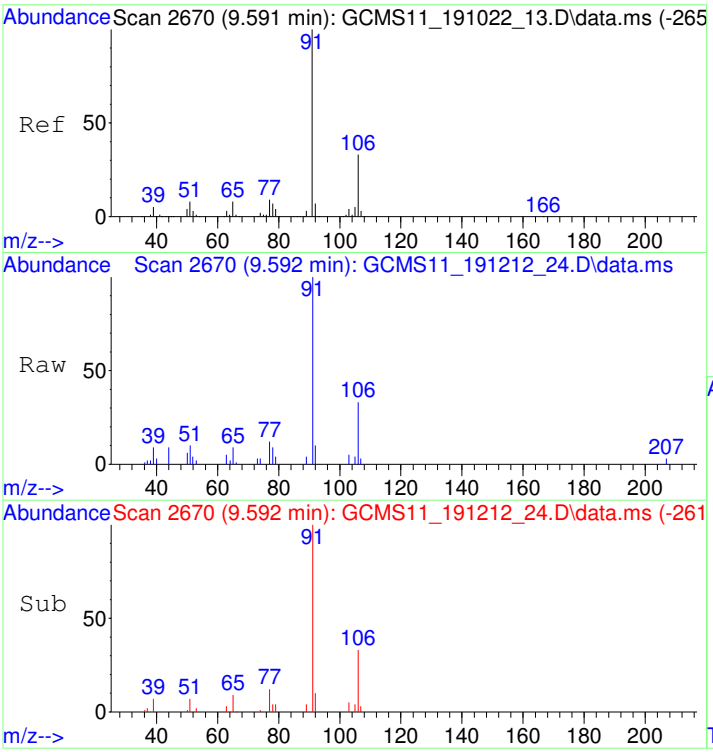


#42
Tetrachloroethene
Concen: 2.09 ng
RT: 8.61 min Scan# 2364
Delta R.T. 0.004 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion:164 Resp: 630

Ion	Ratio	Lower	Upper
164	100		
129	57.3	57.5	117.5#
131	37.1	55.8	115.8#
166	101.9	99.4	159.4

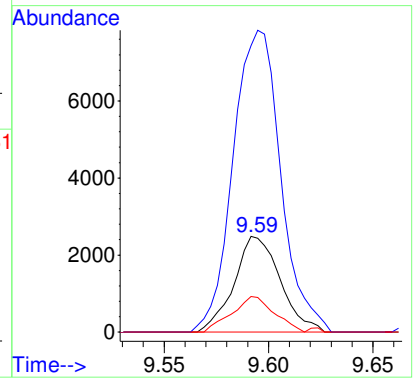


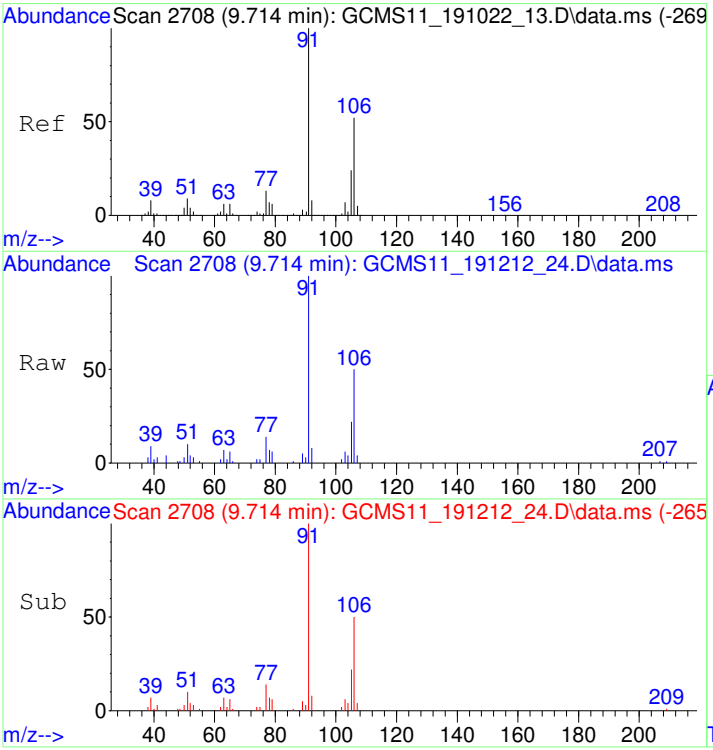


#49
Ethylbenzene
Concen: 7.25 ng
RT: 9.59 min Scan# 2670
Delta R.T. -0.003 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion:106 Resp: 3835

Ion	Ratio	Lower	Upper
106	100		
91	325.0	267.1	327.1
77	34.1	0.0	57.1

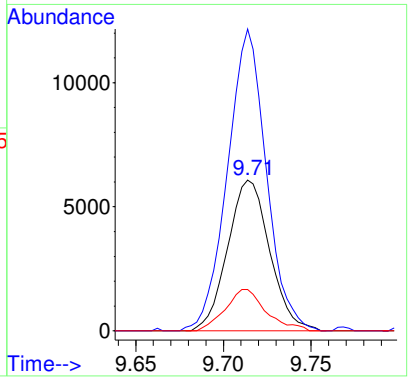


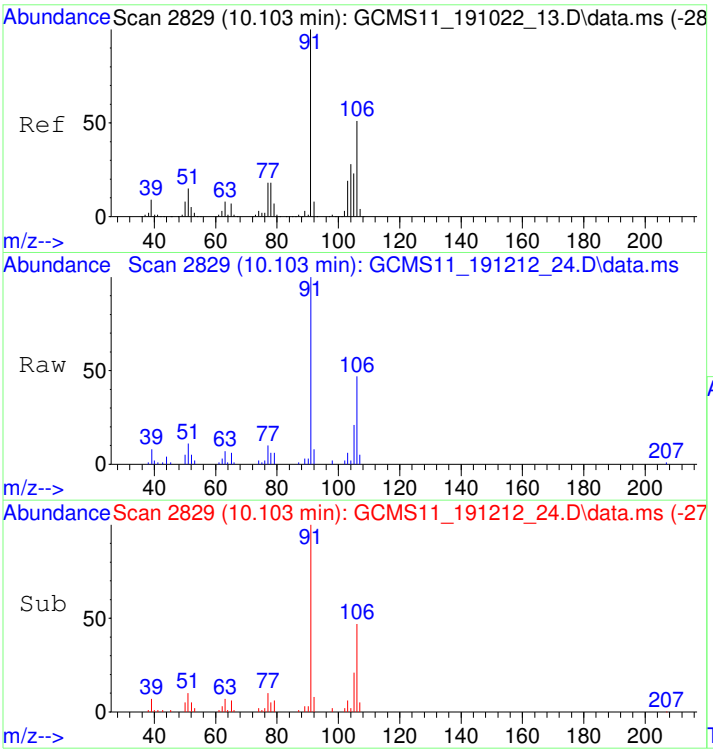


#50
m+p-Xylene
Concen: 15.14 ng
RT: 9.71 min Scan# 2708
Delta R.T. 0.000 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion:106 Resp: 10135

Ion	Ratio	Lower	Upper
106	100		
91	184.7	160.8	220.8
77	26.6	0.0	54.6

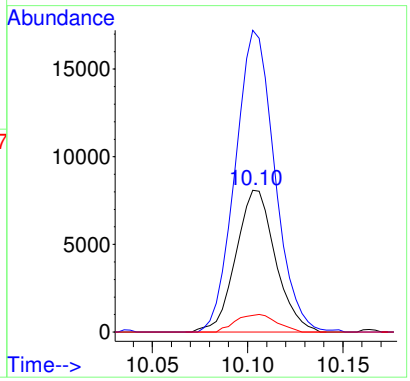


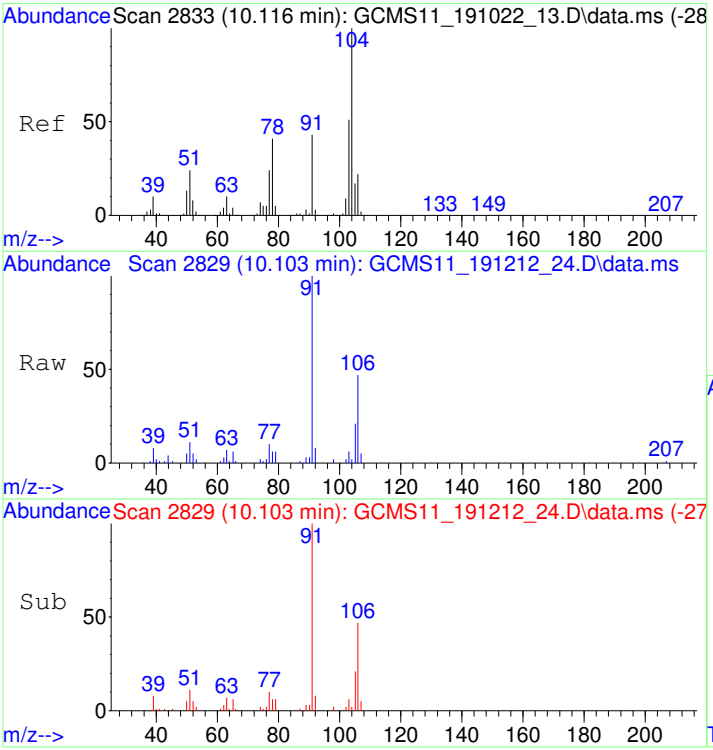


#51
o-Xylene
Concen: 18.05 ng
RT: 10.10 min Scan# 2829
Delta R.T. 0.000 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion:106 Resp: 11669

Ion	Ratio	Lower	Upper
106	100		
91	212.9	178.4	238.4
65	12.9	0.0	45.9

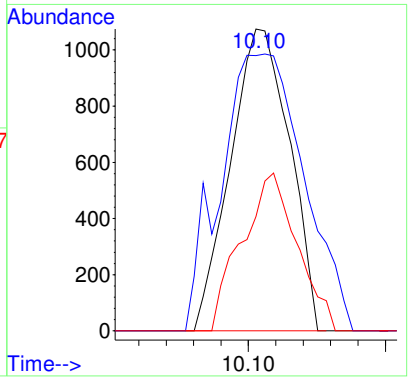


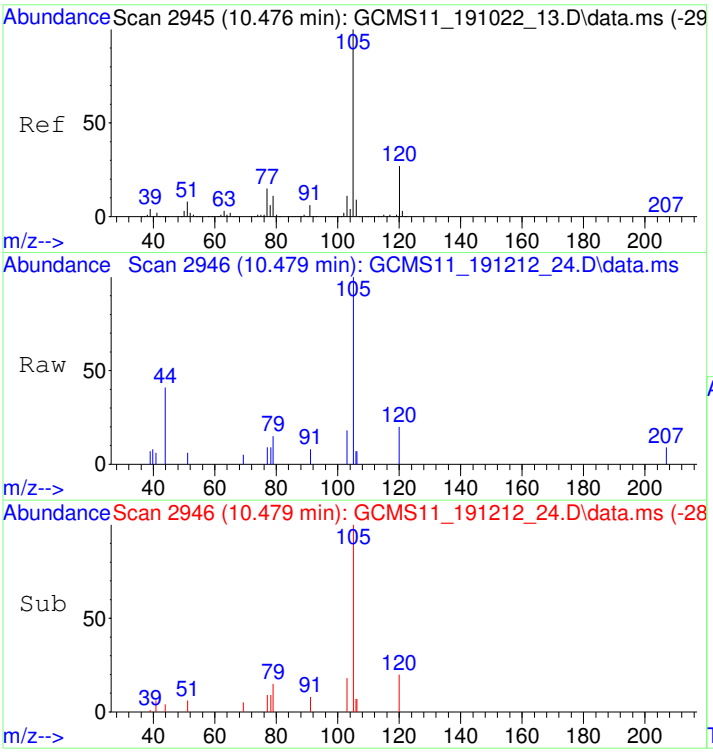


#52
Styrene
Concen: 2.63 ng
RT: 10.10 min Scan# 2829
Delta R.T. -0.019 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion:103 Resp: 1607

Ion	Ratio	Lower	Upper
103	100		
78	129.2	54.1	114.1#
104	49.0	150.1	210.1#

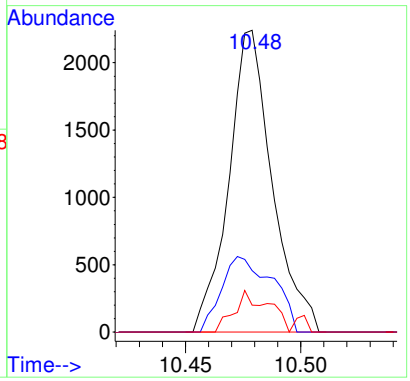


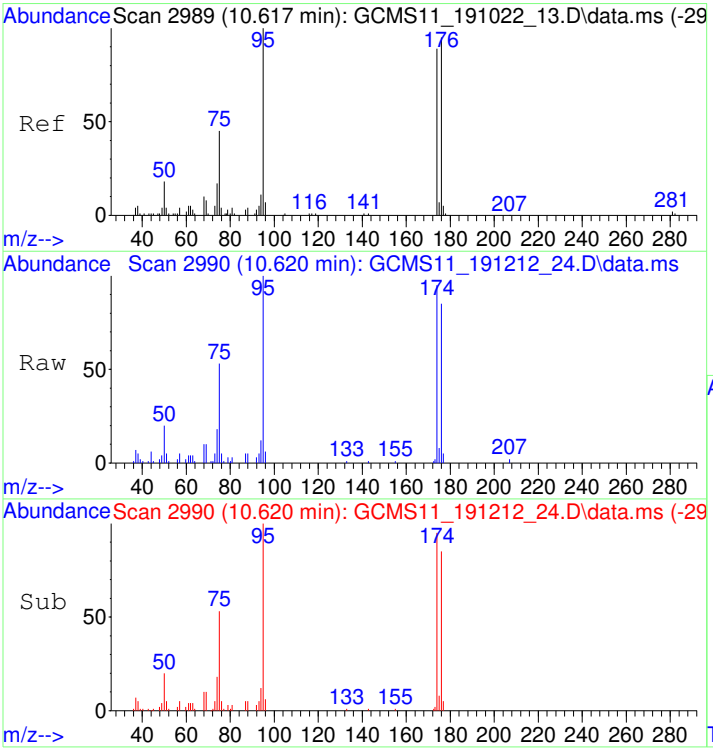


#54
Isopropylbenzene
Concen: 1.72 ng
RT: 10.48 min Scan# 2946
Delta R.T. 0.000 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion:105 Resp: 2933

Ion	Ratio	Lower	Upper
105	100		
120	29.4	0.0	59.2
77	10.9	0.0	44.3

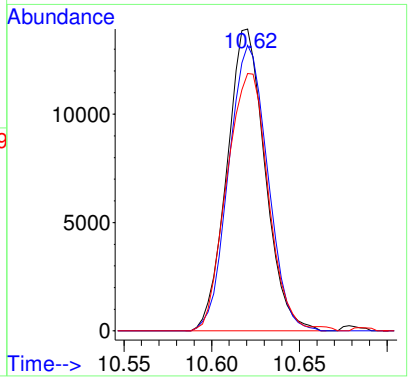


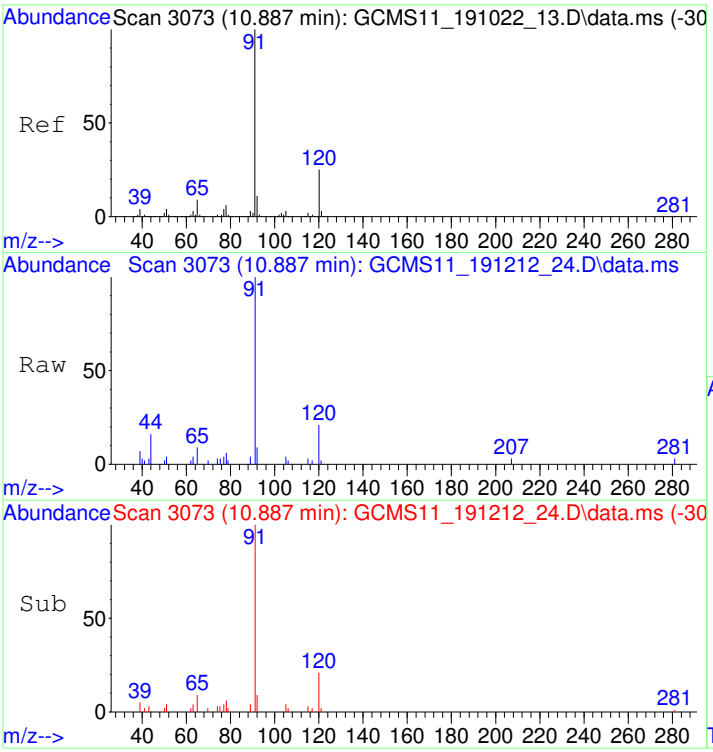


#55
4-BROMOFLUOROBENZENE
Concen: 48.68 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 95 Resp: 21094

Ion	Ratio	Lower	Upper
95	100		
174	96.5	68.5	128.5
176	92.9	66.8	126.8

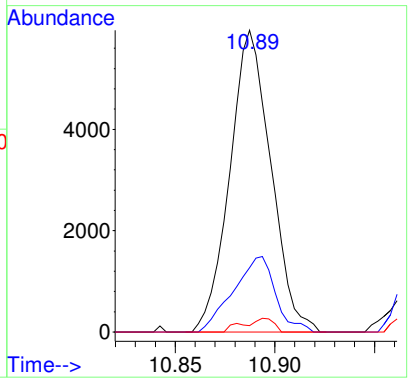


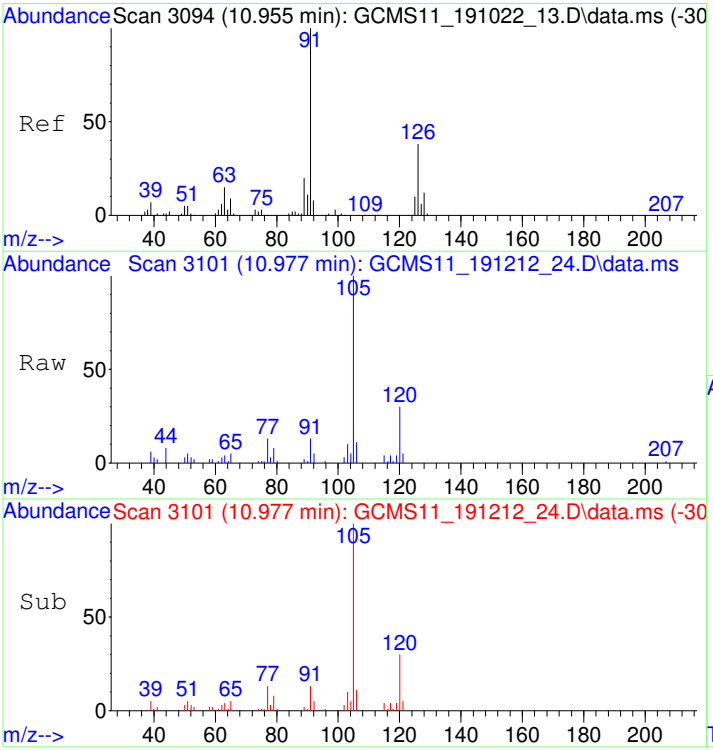


#58
n-Propylbenzene
Concen: 4.46 ng
RT: 10.89 min Scan# 3073
Delta R.T. 0.000 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 91 Resp: 8554

Ion	Ratio	Lower	Upper
91	100		
120	25.7	0.0	55.0
121	2.0	0.0	32.4

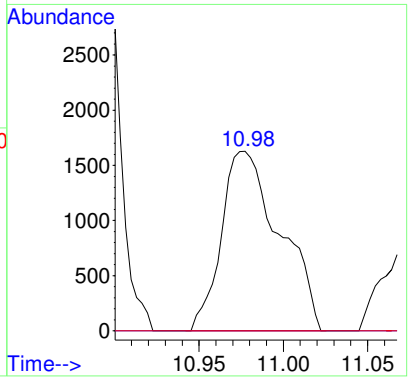


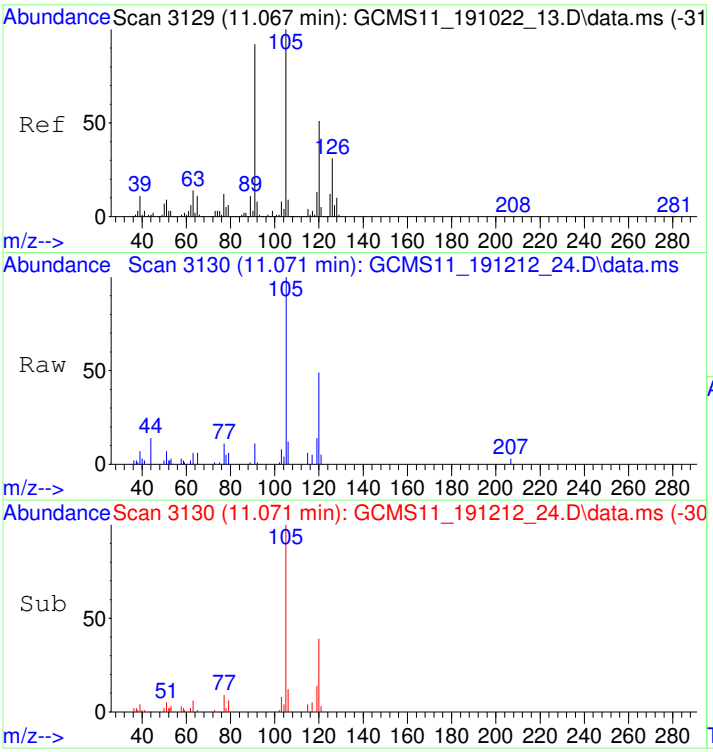


#59
2-Chlorotoluene
Concen: 3.51 ng
RT: 10.98 min Scan# 3101
Delta R.T. 0.019 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 91 Resp: 3933

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

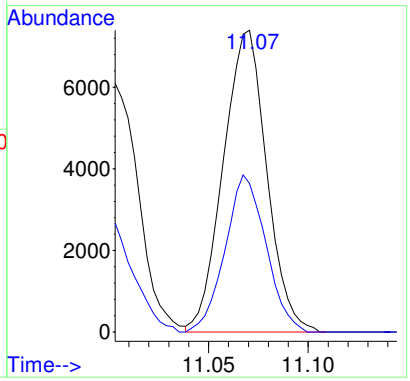


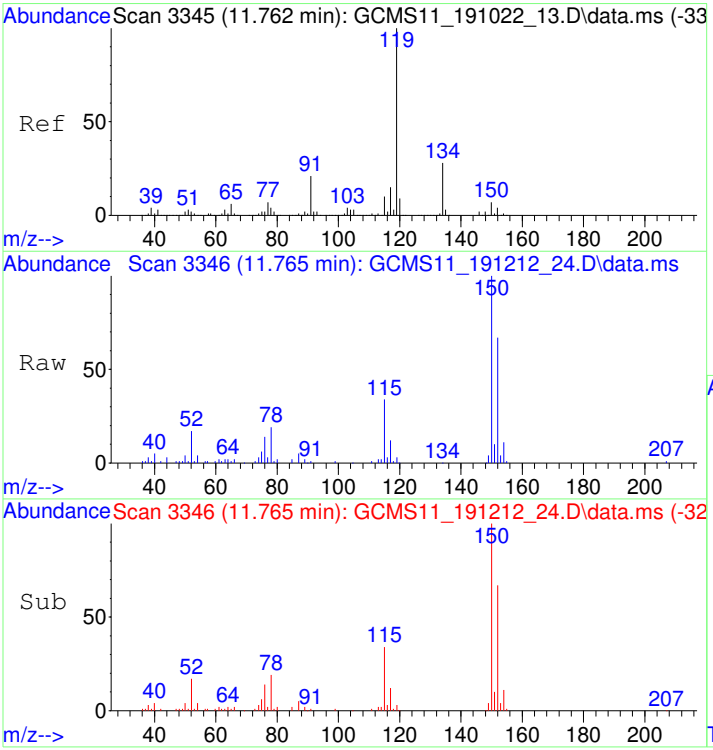


#60
1,3,5-Trimethylbenzene
Concen: 8.08 ng
RT: 11.07 min Scan# 3130
Delta R.T. 0.000 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion:105 Resp: 11234

Ion	Ratio	Lower	Upper
105	100		
120	48.8	22.4	82.4

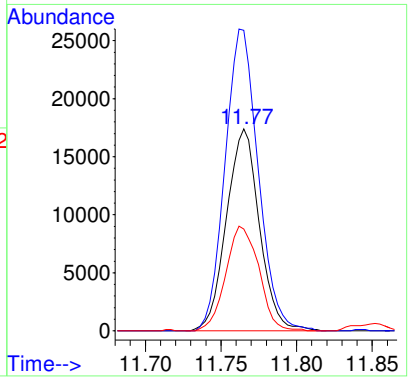


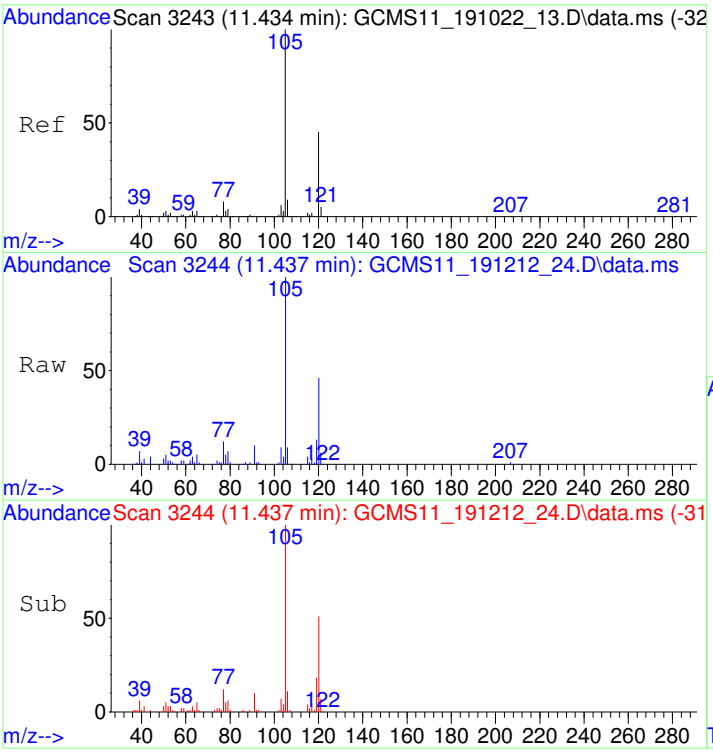


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion:152 Resp: 26402

Ion	Ratio	Lower	Upper
152	100		
150	150.5	162.5	222.5#
115	52.0	82.3	142.3#

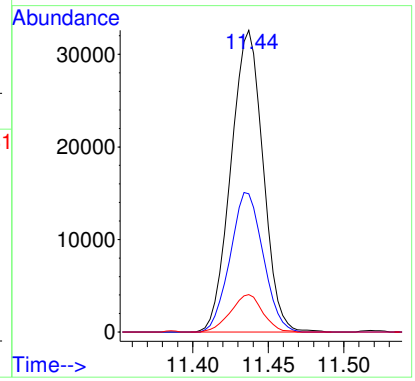


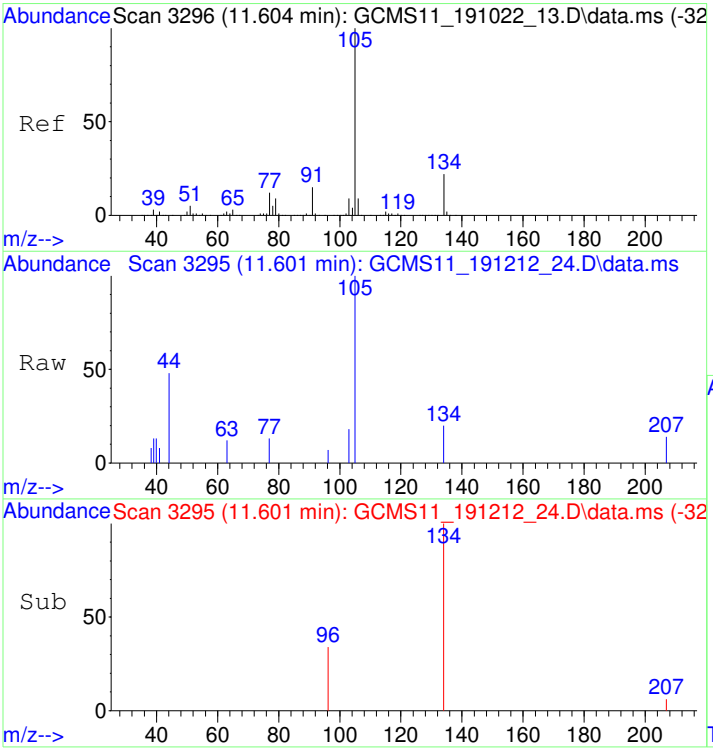


#65
1,2,4-Trimethylbenzene
Concen: 33.84 ng
RT: 11.44 min Scan# 3244
Delta R.T. 0.000 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion:105 Resp: 48214

Ion	Ratio	Lower	Upper
105	100		
120	47.5	18.6	78.6
77	12.5	0.0	41.4

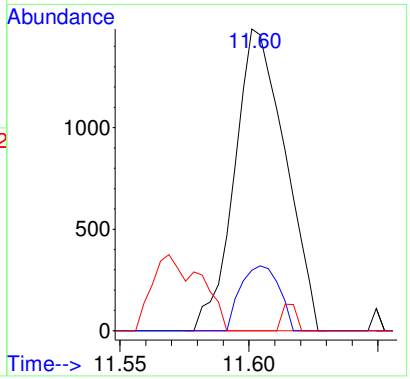


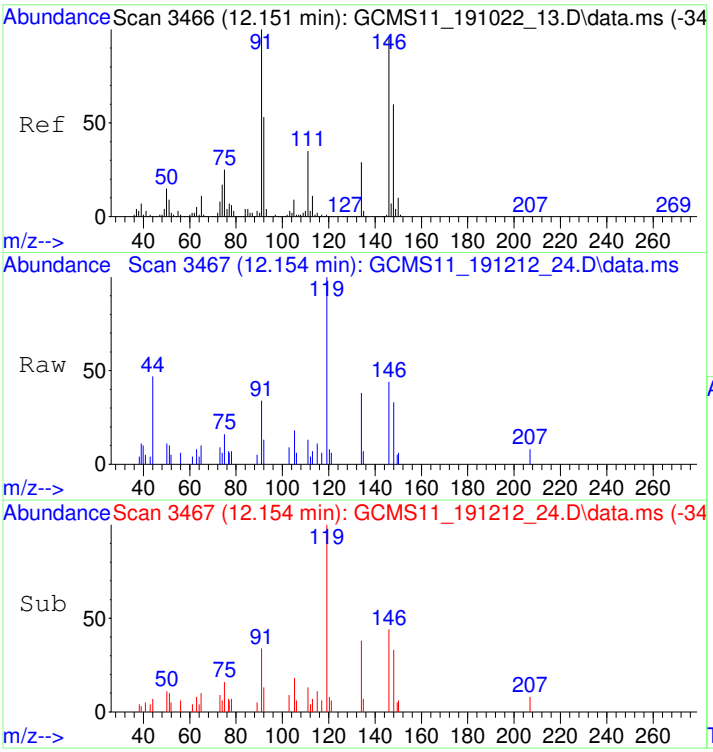


#66
sec-Butylbenzene
Concen: 1.16 ng
RT: 11.60 min Scan# 3295
Delta R.T. -0.006 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion:105 Resp: 2022

Ion	Ratio	Lower	Upper
105	100		
134	16.4	0.0	52.3
91	0.0	0.0	45.3

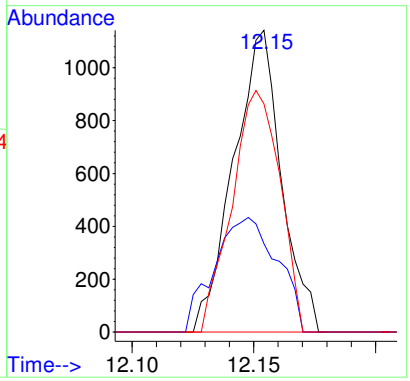


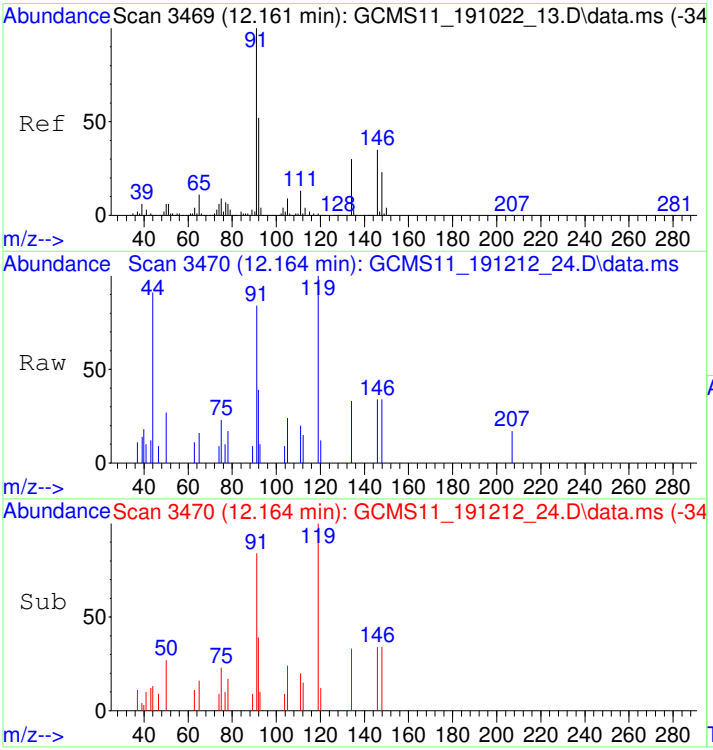


#70
1,2-Dichlorobenzene
Concen: 1.77 ng
RT: 12.15 min Scan# 3467
Delta R.T. 0.003 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion:146 Resp: 1560

Ion	Ratio	Lower	Upper
146	100		
111	50.0	8.4	68.4
148	80.4	34.6	94.6

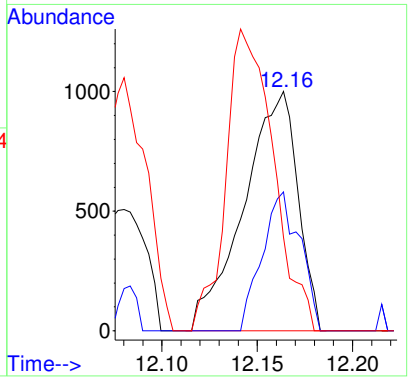


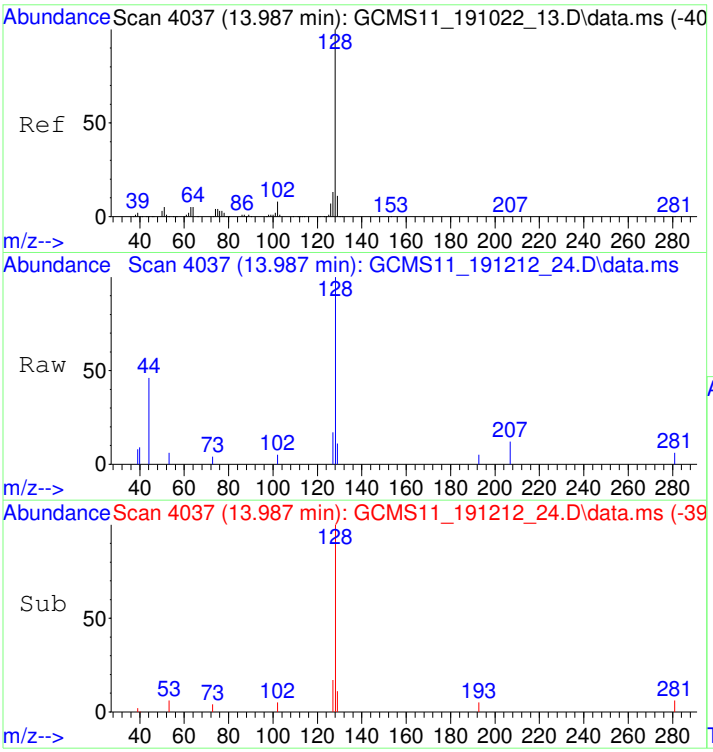


#71
n-Butylbenzene
Concen: 1.45 ng
RT: 12.16 min Scan# 3470
Delta R.T. 0.003 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion: 91 Resp: 1977

Ion	Ratio	Lower	Upper
91	100		
92	40.5	22.0	82.0
134	0.0	0.0	58.4

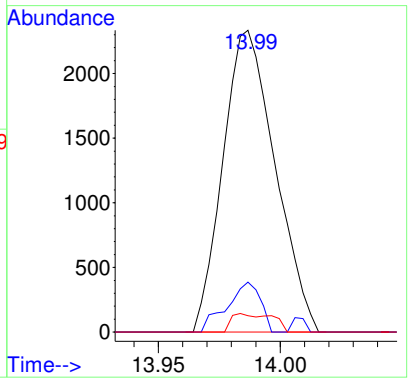




#75
Naphthalene
Concen: 2.29 ng
RT: 13.99 min Scan# 4037
Delta R.T. -0.000 min
Lab File: GCMS11_191212_24.D
Acq: 12 Dec 2019 11:55 pm

Tgt Ion:128 Resp: 3480

Ion	Ratio	Lower	Upper
128	100		
127	10.7	0.0	43.5
102	4.9	0.0	37.4



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_25.D
Acq On : 13 Dec 2019 12:26 am
Operator : ko
Sample : 1912009-09
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 20 Sample Multiplier: 1

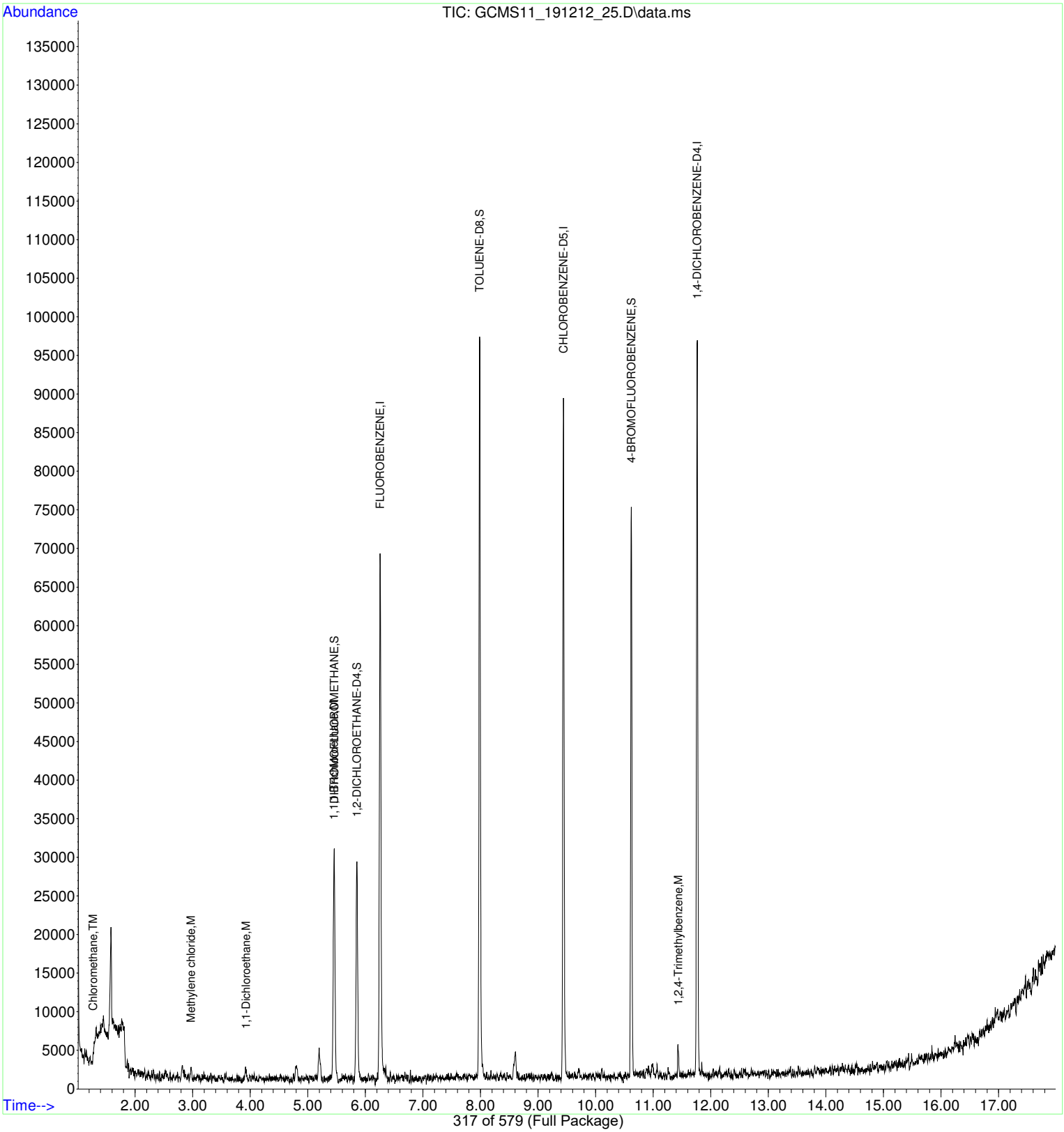
Quant Time: Dec 13 10:59:34 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

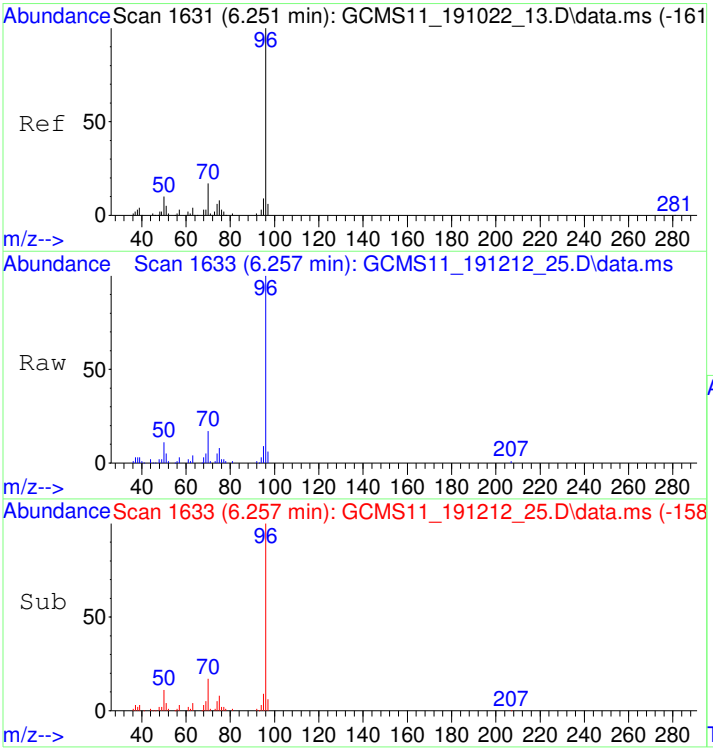
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) FLUOROBENZENE	6.26	96	63968	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	24494	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	25448	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.46	113	17829	53.07 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	18888	47.17 ng	0.00
37) TOLUENE-D8	7.98	98	66250	52.66 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	21110	47.53 ng	0.00
Target Compounds					Qvalue
3) Chloromethane	1.27	50	564	2.08 ng	97
12) Methylene chloride	2.97	84	416	1.03 ng	# 66
16) 1,1-Dichloroethane	3.93	63	1230m	1.99 ng	
23) 1,1,1-Trichloroethane	5.45	97	1247m	2.22 ng	
65) 1,2,4-Trimethylbenzene	11.43	105	2195	1.60 ng	92

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_25.D
Acq On : 13 Dec 2019 12:26 am
Operator : ko
Sample : 1912009-09
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 13 10:59:34 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

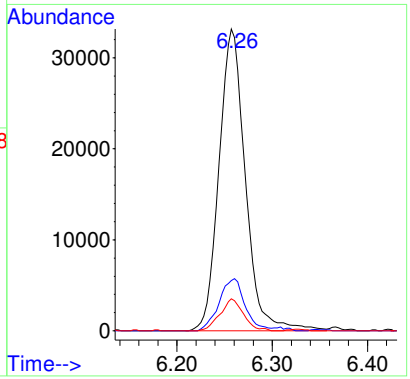


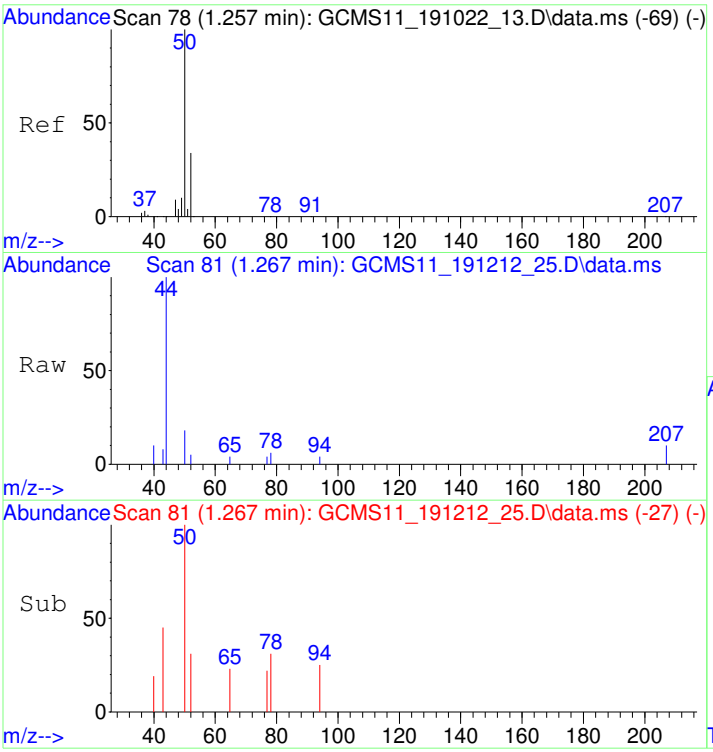


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.26 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191212_25.D
Acq: 13 Dec 2019 12:26 am

Tgt Ion: 96 Resp: 63968

Ion	Ratio	Lower	Upper
96	100		
70	16.9	0.0	48.3
50	9.4	0.0	39.5

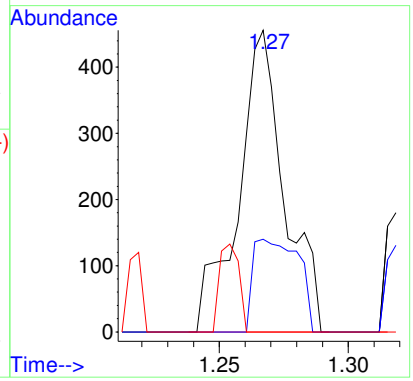


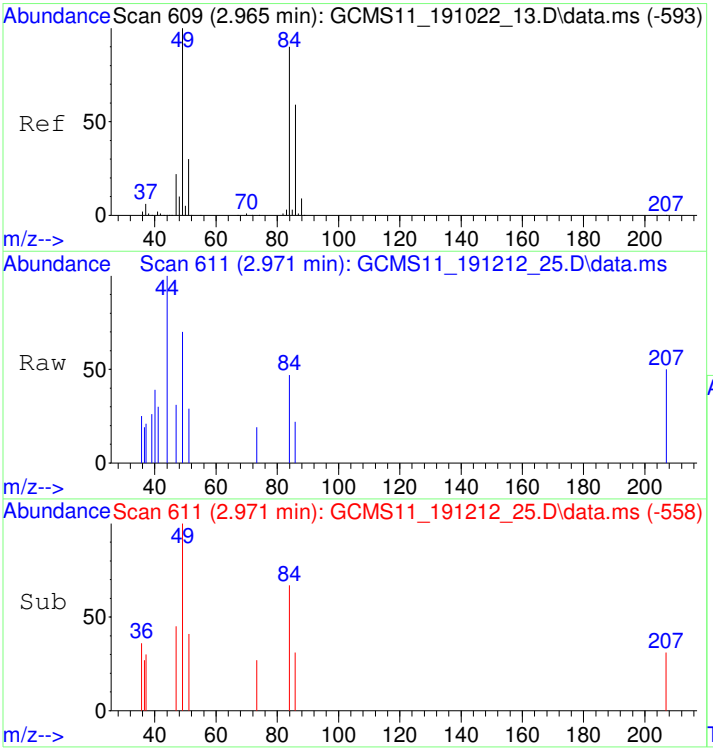


#3
Chloromethane
Concen: 2.08 ng
RT: 1.27 min Scan# 81
Delta R.T. 0.003 min
Lab File: GCMS11_191212_25.D
Acq: 13 Dec 2019 12:26 am

Tgt Ion: 50 Resp: 564

Ion	Ratio	Lower	Upper
50	100		
52	30.3	2.0	62.0
49	12.4	0.0	40.7

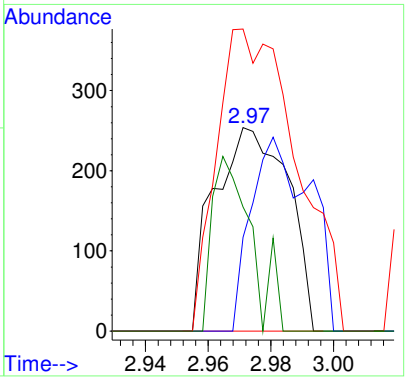


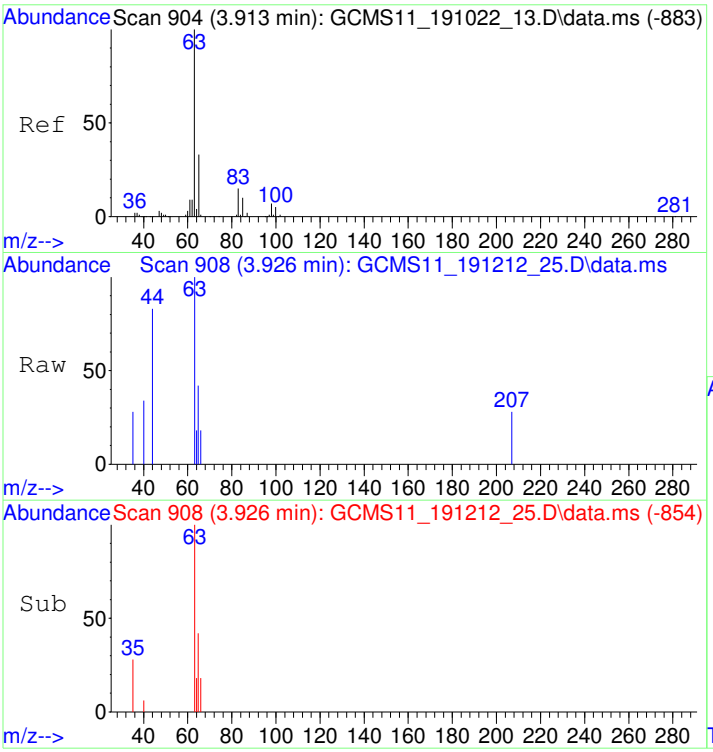


#12
Methylene chloride
Concen: 1.03 ng
RT: 2.97 min Scan# 611
Delta R.T. -0.000 min
Lab File: GCMS11_191212_25.D
Acq: 13 Dec 2019 12:26 am

Tgt Ion: 84 Resp: 416

Ion	Ratio	Lower	Upper
84	100		
86	75.2	35.2	95.2
49	161.3	78.3	138.3#
51	45.4	4.0	64.0

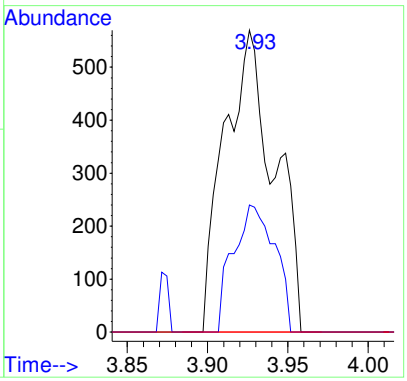


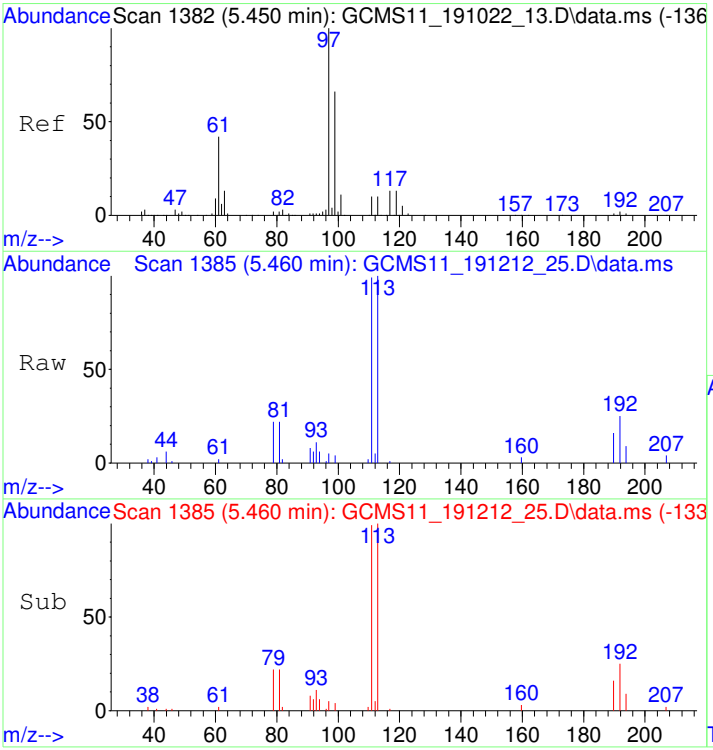


#16
1,1-Dichloroethane
Concen: 1.99 ng m
RT: 3.93 min Scan# 908
Delta R.T. 0.003 min
Lab File: GCMS11_191212_25.D
Acq: 13 Dec 2019 12:26 am

Tgt Ion: 63 Resp: 1230

Ion	Ratio	Lower	Upper
63	100		
65	35.2	2.8	62.8
83	0.0	0.0	44.3

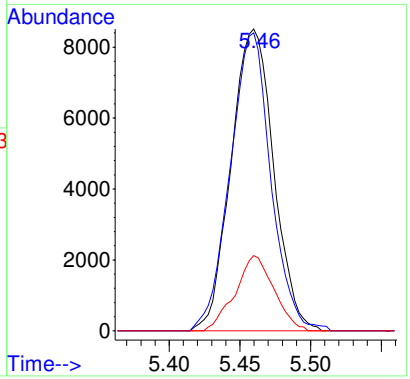


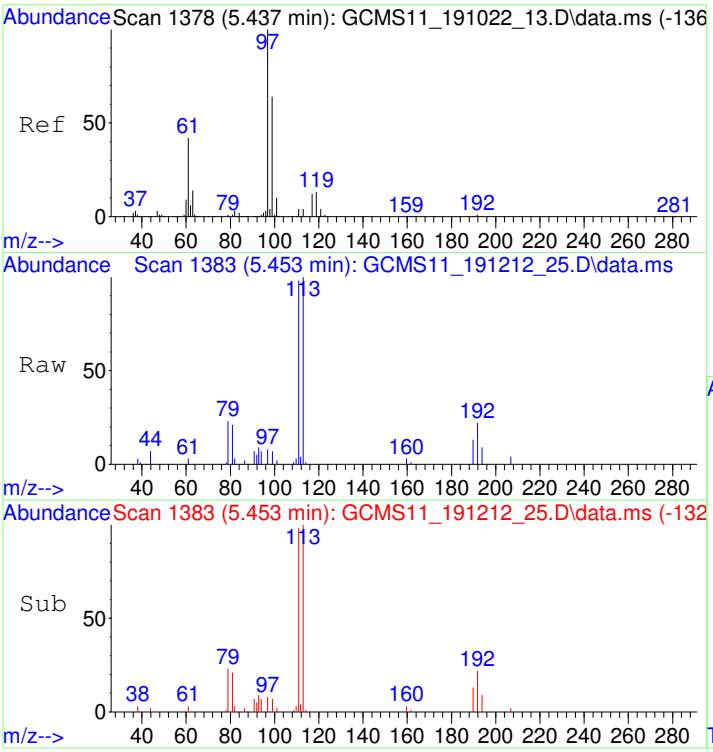


#22
DIBROMOFLUOROMETHANE
Concen: 53.07 ng
RT: 5.46 min Scan# 1385
Delta R.T. -0.000 min
Lab File: GCMS11_191212_25.D
Acq: 13 Dec 2019 12:26 am

Tgt Ion:113 Resp: 17829

Ion	Ratio	Lower	Upper
113	100		
111	94.2	75.2	135.2
192	22.6	0.0	52.1

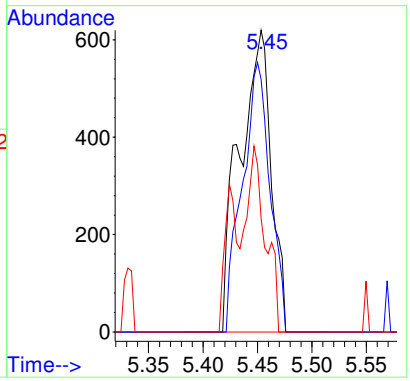


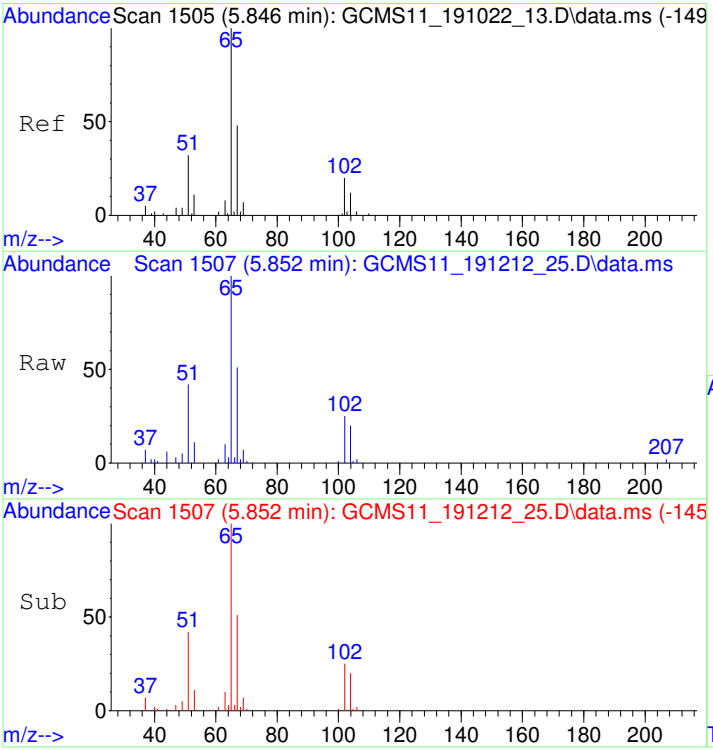


#23
1,1,1-Trichloroethane
Concen: 2.22 ng m
RT: 5.45 min Scan# 1383
Delta R.T. 0.010 min
Lab File: GCMS11_191212_25.D
Acq: 13 Dec 2019 12:26 am

Tgt Ion: 97 Resp: 1247

Ion	Ratio	Lower	Upper
97	100		
99	77.9	32.7	92.7
61	37.0	13.1	73.1

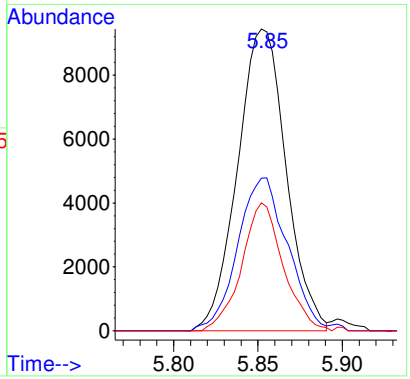


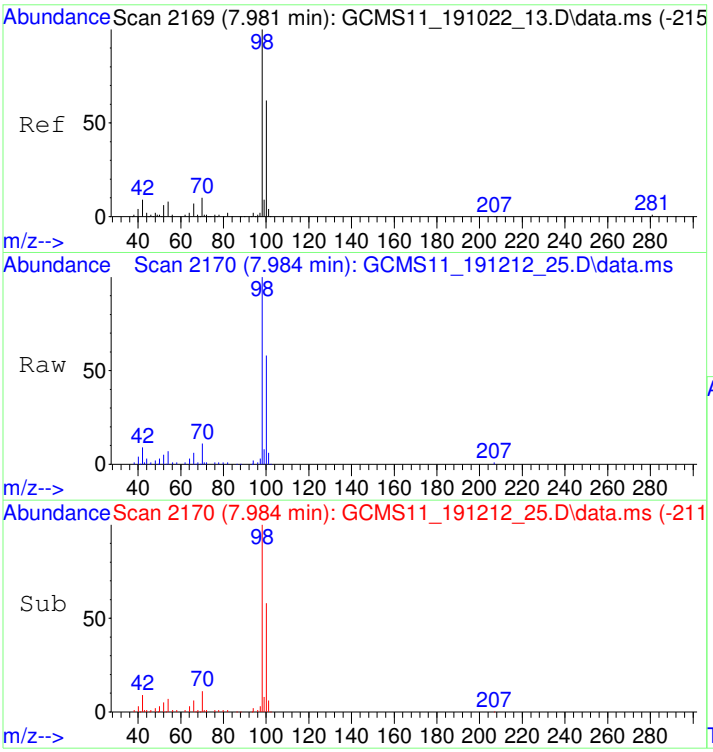


#26
1,2-DICHLOROETHANE-D4
Concen: 47.17 ng
RT: 5.85 min Scan# 1507
Delta R.T. -0.000 min
Lab File: GCMS11_191212_25.D
Acq: 13 Dec 2019 12:26 am

Tgt Ion: 65 Resp: 18888

Ion	Ratio	Lower	Upper
65	100		
67	51.9	15.4	75.4
51	36.3	2.7	62.7

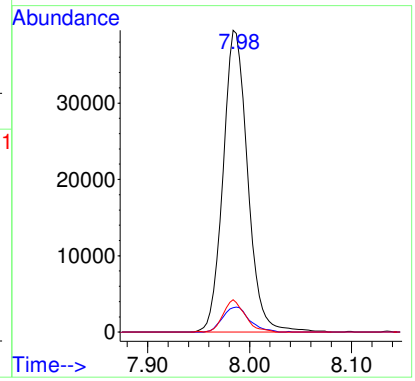


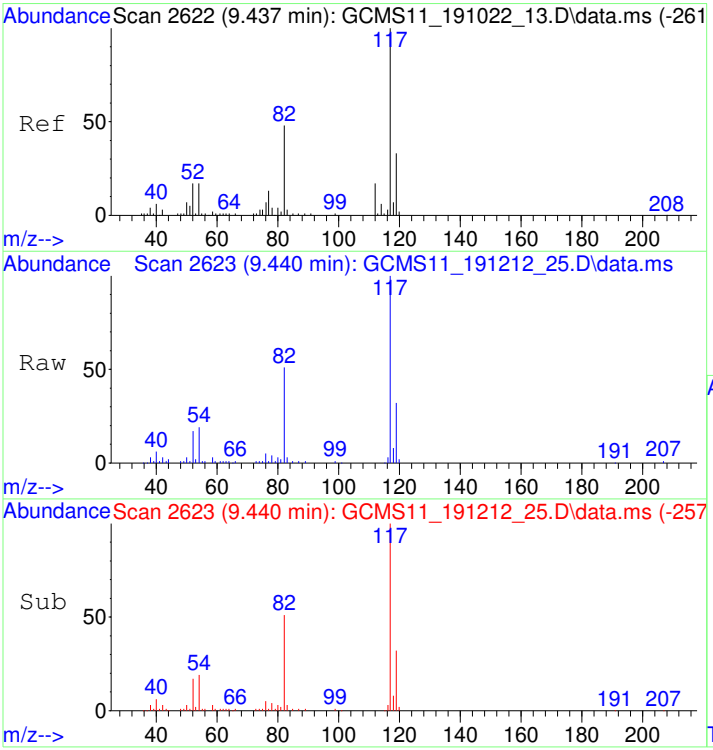


#37
TOLUENE-D8
Concen: 52.66 ng
RT: 7.98 min Scan# 2170
Delta R.T. -0.000 min
Lab File: GCMS11_191212_25.D
Acq: 13 Dec 2019 12:26 am

Tgt Ion: 98 Resp: 66250

Ion	Ratio	Lower	Upper
98	100		
99	9.0	0.0	39.8
70	9.6	0.0	40.7

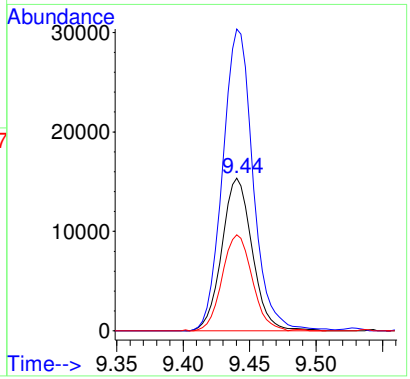


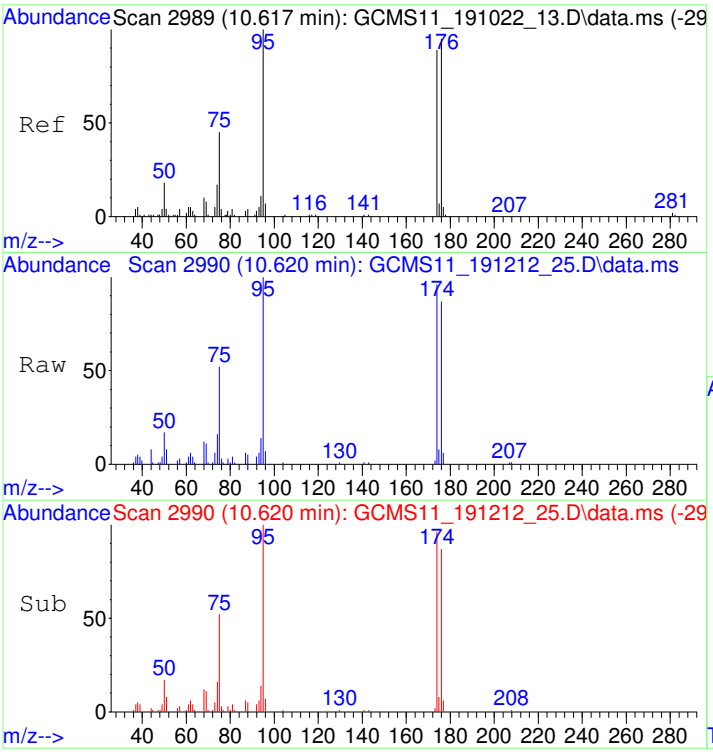


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191212_25.D
Acq: 13 Dec 2019 12:26 am

Tgt Ion: 82 Resp: 24494

Ion	Ratio	Lower	Upper
82	100		
117	197.5	160.7	220.7
119	62.1	33.5	93.5

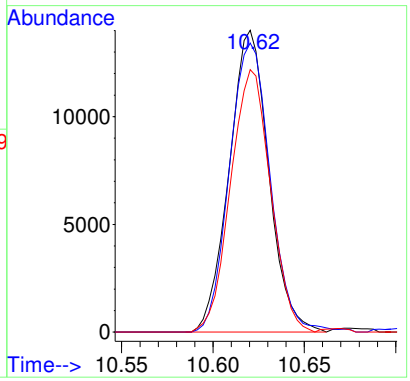


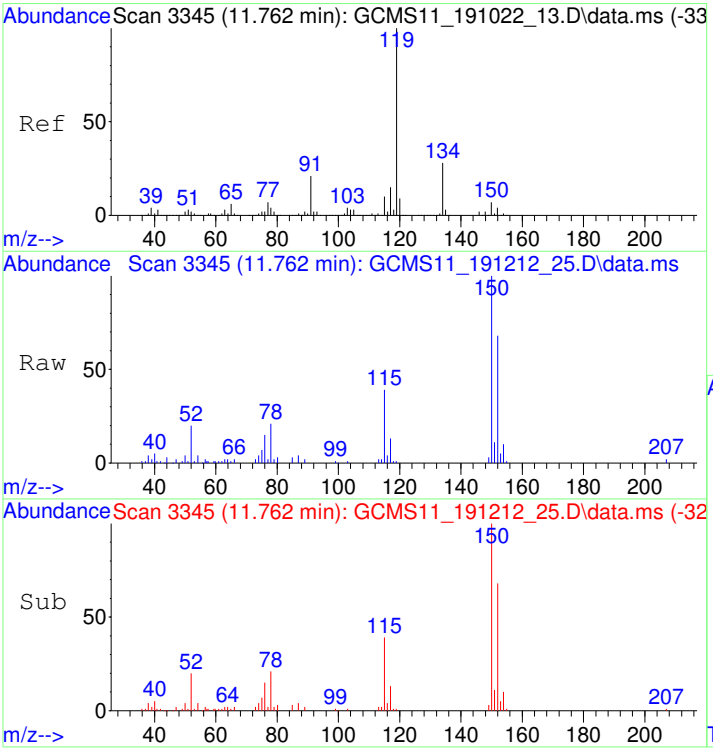


#55
4-BROMOFLUOROBENZENE
Concen: 47.53 ng
RT: 10.62 min Scan# 2990
Delta R.T. -0.000 min
Lab File: GCMS11_191212_25.D
Acq: 13 Dec 2019 12:26 am

Tgt Ion: 95 Resp: 21110

Ion	Ratio	Lower	Upper
95	100		
174	99.0	68.5	128.5
176	87.6	66.8	126.8

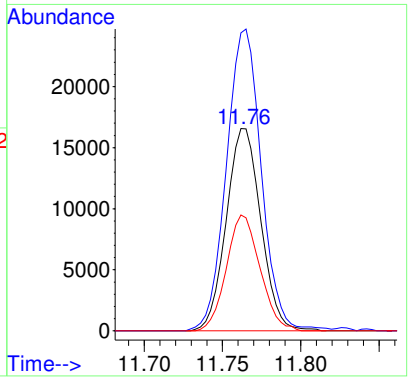


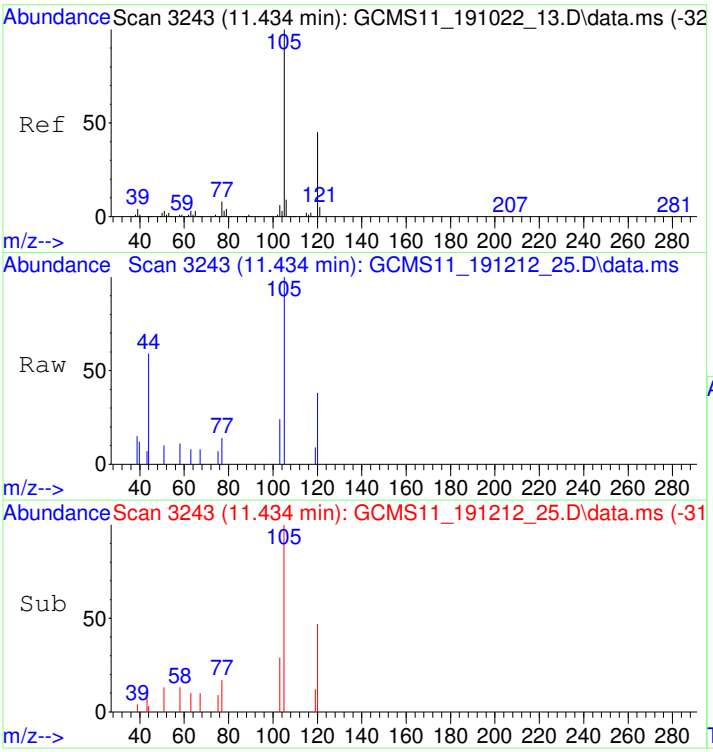


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.76 min Scan# 3345
Delta R.T. -0.003 min
Lab File: GCMS11_191212_25.D
Acq: 13 Dec 2019 12:26 am

Tgt Ion:152 Resp: 25448

Ion	Ratio	Lower	Upper
152	100		
150	150.5	162.5	222.5#
115	55.6	82.3	142.3#

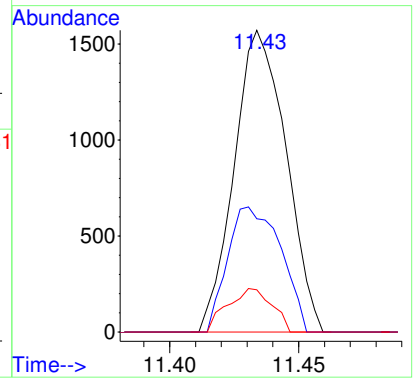




#65
1,2,4-Trimethylbenzene
Concen: 1.60 ng
RT: 11.43 min Scan# 3243
Delta R.T. -0.003 min
Lab File: GCMS11_191212_25.D
Acq: 13 Dec 2019 12:26 am

Tgt Ion:105 Resp: 2195

Ion	Ratio	Lower	Upper
105	100		
120	42.6	18.6	78.6
77	12.4	0.0	41.4



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_26.D
Acq On : 13 Dec 2019 12:57 am
Operator : ko
Sample : 1912009-10
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 21 Sample Multiplier: 1

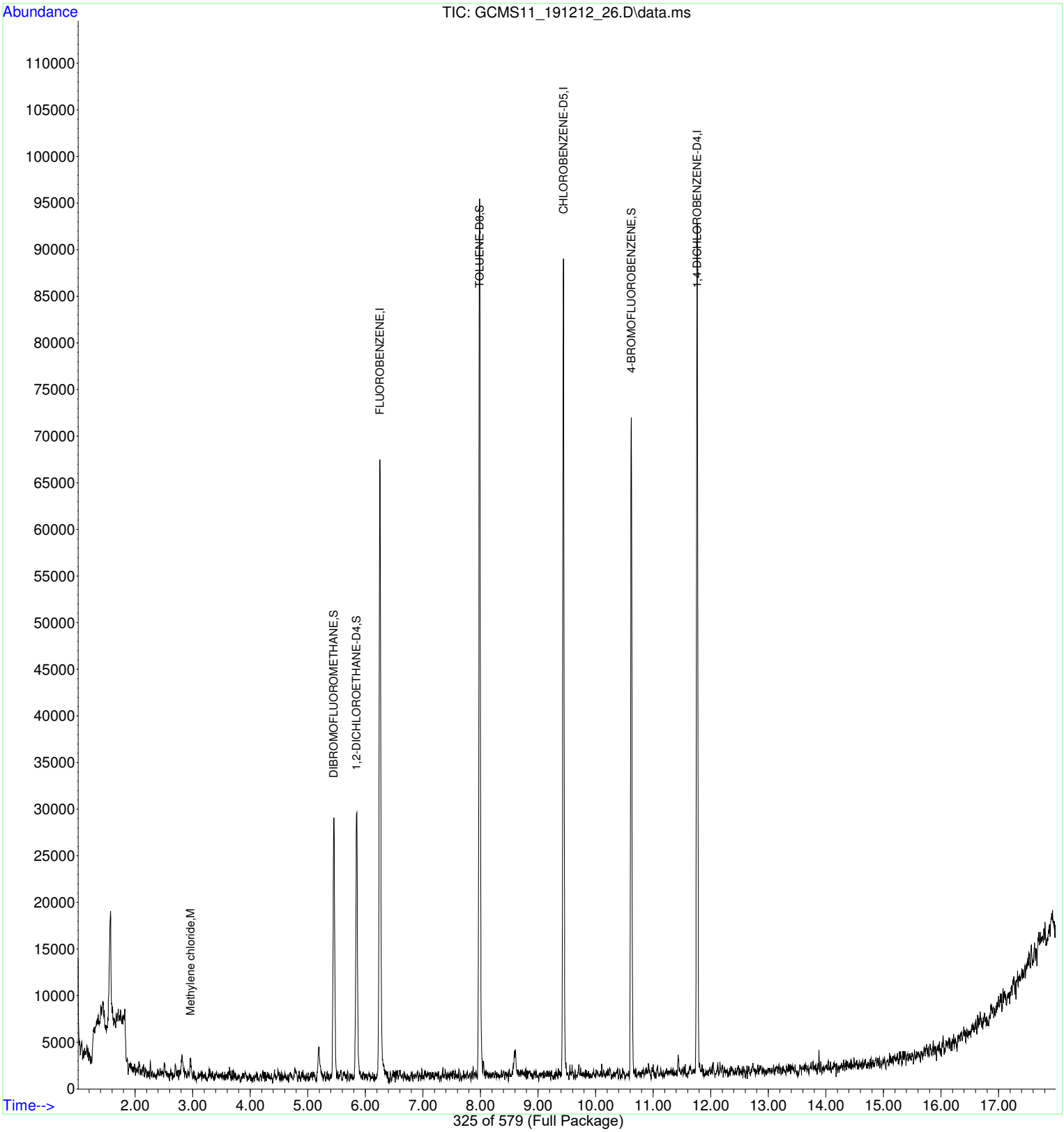
Quant Time: Dec 13 11:02:22 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

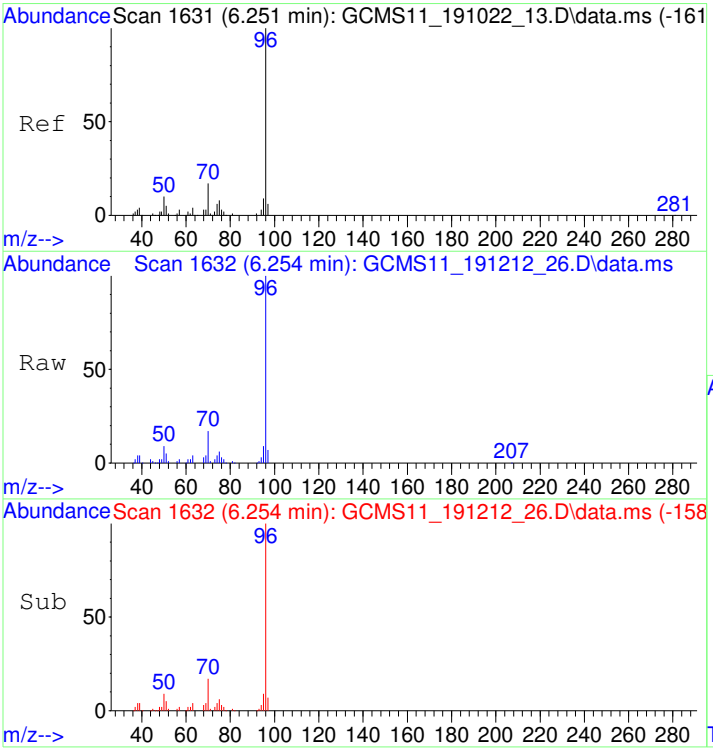
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.25	96	61195	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	24126	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	24753	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.45	113	16025	49.86	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	19485	50.87	ng	0.00
37) TOLUENE-D8	7.98	98	62052	51.56	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	20915	47.81	ng	0.00
Target Compounds						Qvalue
12) Methylene chloride	2.96	84	508	1.32	ng	# 75

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_26.D
Acq On : 13 Dec 2019 12:57 am
Operator : ko
Sample : 1912009-10
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 13 11:02:22 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

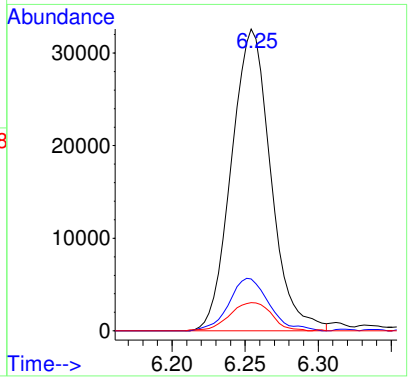


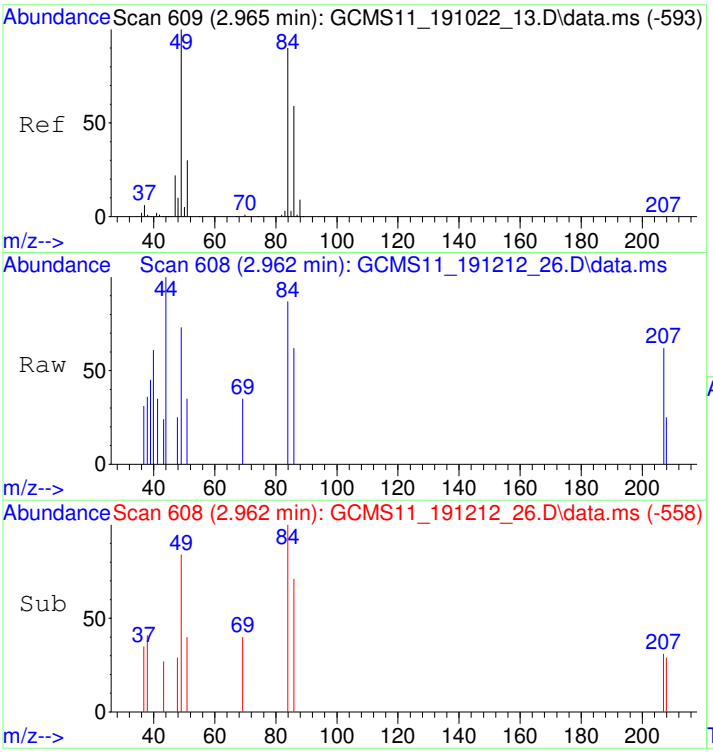


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191212_26.D
Acq: 13 Dec 2019 12:57 am

Tgt Ion: 96 Resp: 61195

Ion	Ratio	Lower	Upper
96	100		
70	17.7	0.0	48.3
50	10.1	0.0	39.5

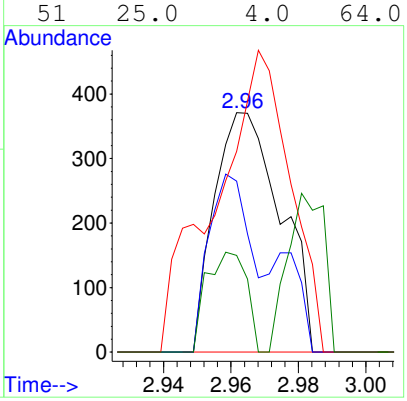


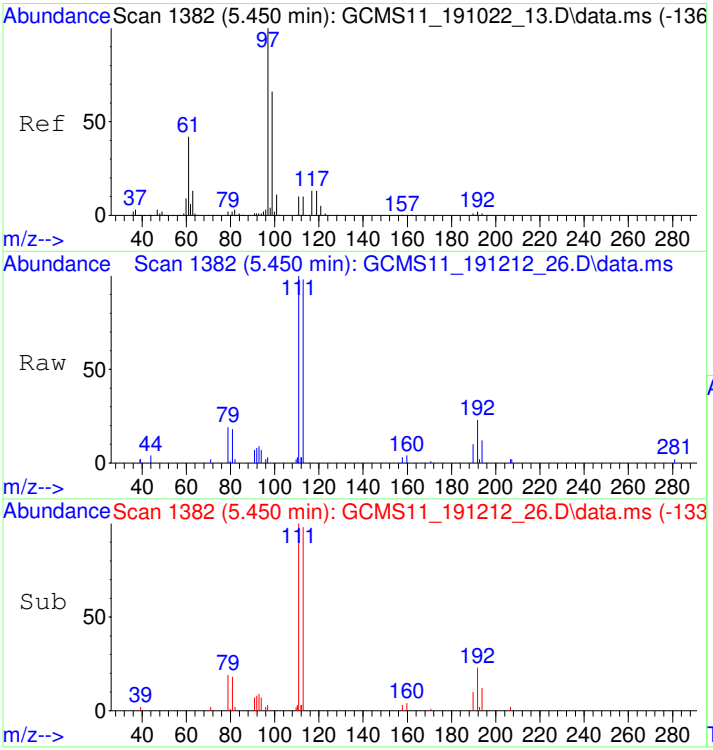


#12
Methylene chloride
Concen: 1.32 ng
RT: 2.96 min Scan# 608
Delta R.T. -0.010 min
Lab File: GCMS11_191212_26.D
Acq: 13 Dec 2019 12:57 am

Tgt Ion: 84 Resp: 508

Ion	Ratio	Lower	Upper
84	100		
86	50.6	35.2	95.2
49	141.7	78.3	138.3#
51	25.0	4.0	64.0

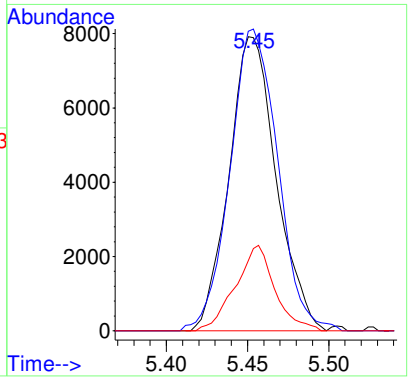


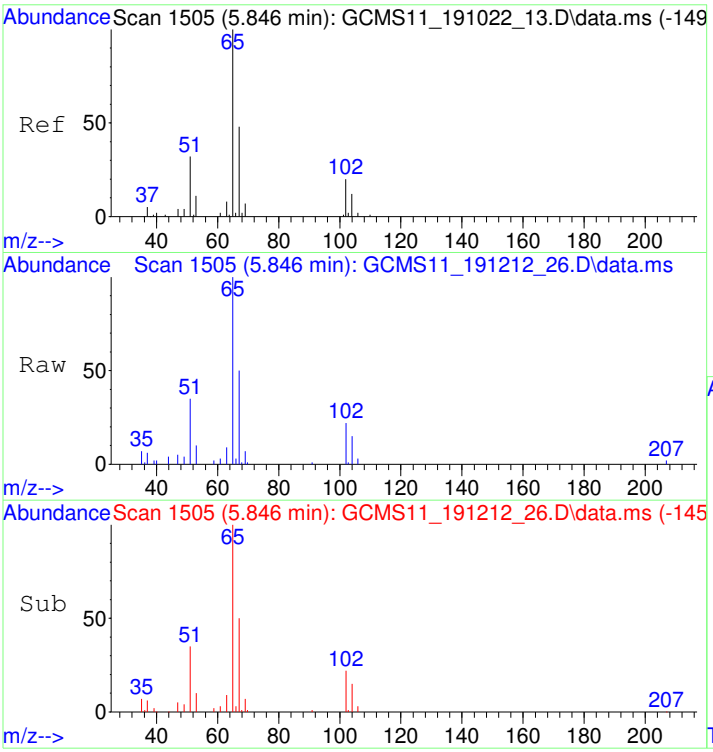


#22
DIBROMOFLUOROMETHANE
Concen: 49.86 ng
RT: 5.45 min Scan# 1382
Delta R.T. -0.010 min
Lab File: GCMS11_191212_26.D
Acq: 13 Dec 2019 12:57 am

Tgt Ion:113 Resp: 16025

Ion	Ratio	Lower	Upper
113	100		
111	103.6	75.2	135.2
192	24.3	0.0	52.1

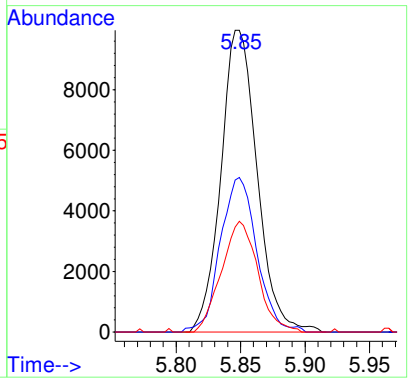


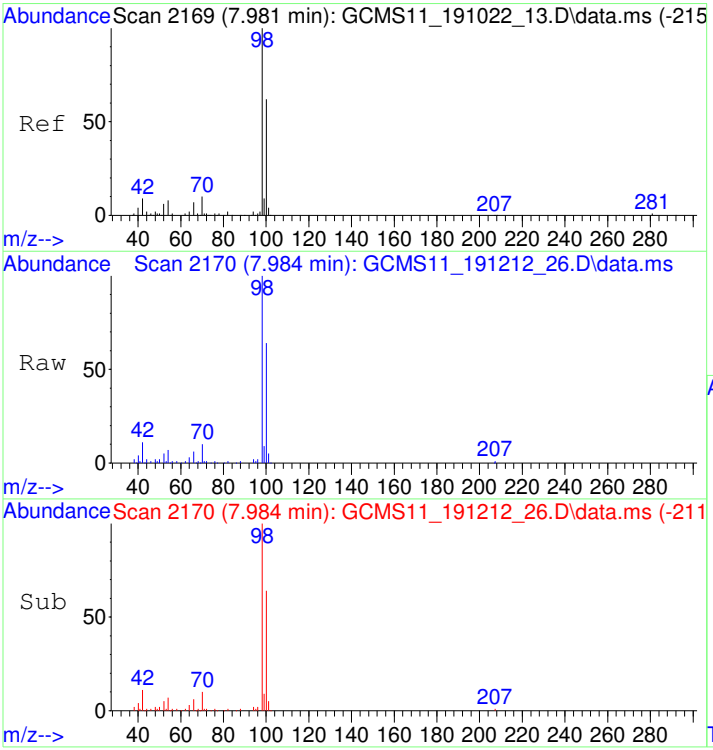


#26
1,2-DICHLOROETHANE-D4
Concen: 50.87 ng
RT: 5.85 min Scan# 1505
Delta R.T. -0.006 min
Lab File: GCMS11_191212_26.D
Acq: 13 Dec 2019 12:57 am

Tgt Ion: 65 Resp: 19485

Ion	Ratio	Lower	Upper
65	100		
67	51.5	15.4	75.4
51	36.8	2.7	62.7

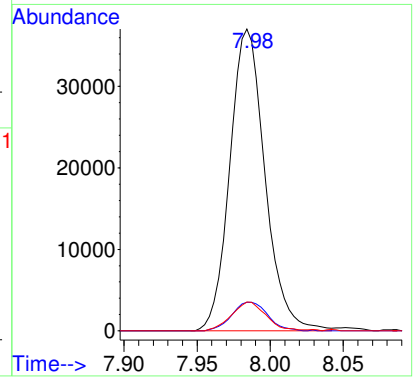


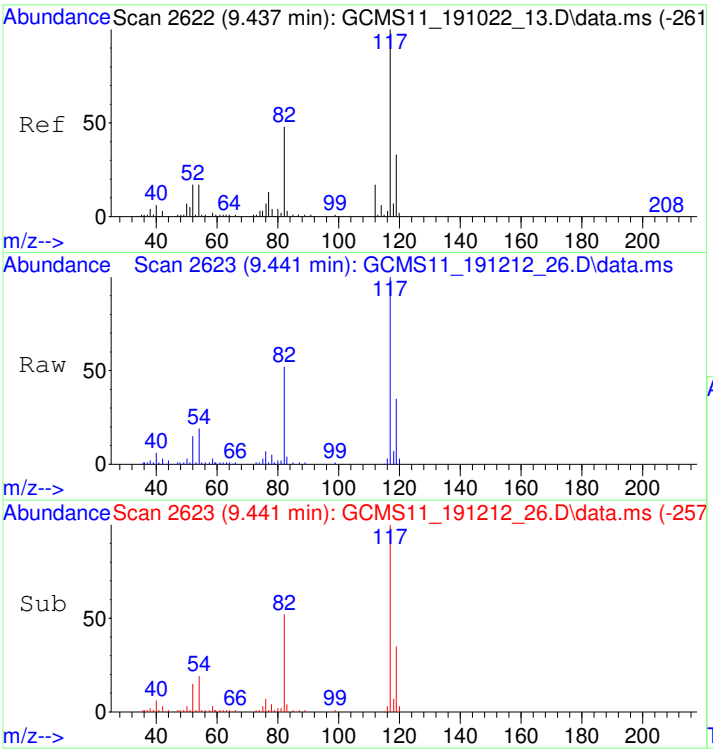


#37
TOLUENE-D8
Concen: 51.56 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191212_26.D
Acq: 13 Dec 2019 12:57 am

Tgt Ion: 98 Resp: 62052

Ion	Ratio	Lower	Upper
98	100		
99	9.7	0.0	39.8
70	9.4	0.0	40.7

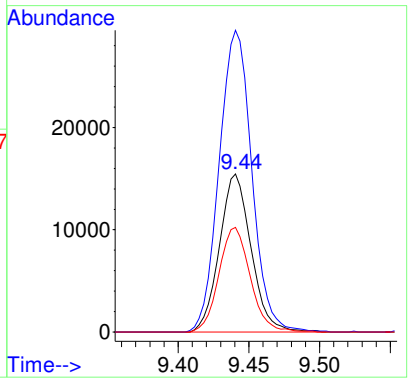


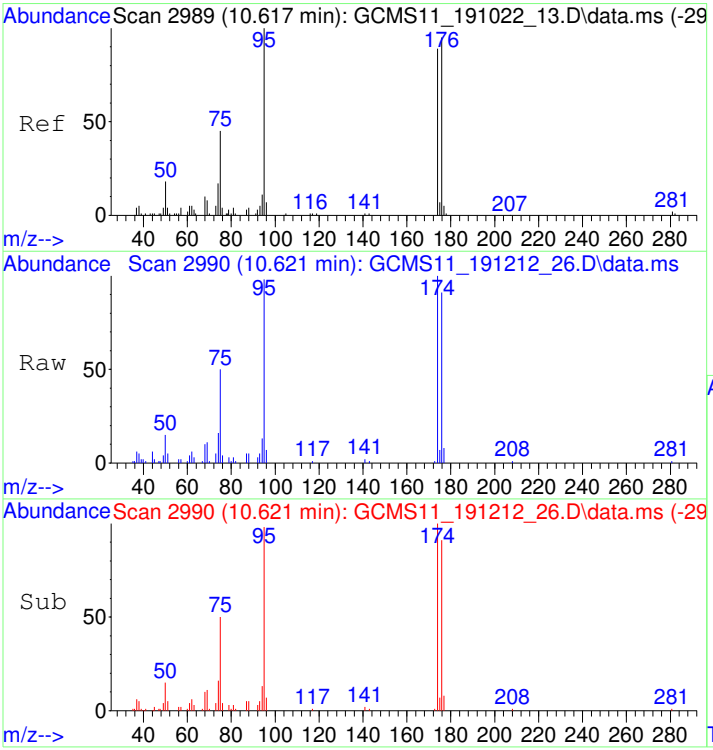


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.001 min
Lab File: GCMS11_191212_26.D
Acq: 13 Dec 2019 12:57 am

Tgt Ion: 82 Resp: 24126

Ion	Ratio	Lower	Upper
82	100		
117	196.5	160.7	220.7
119	65.6	33.5	93.5

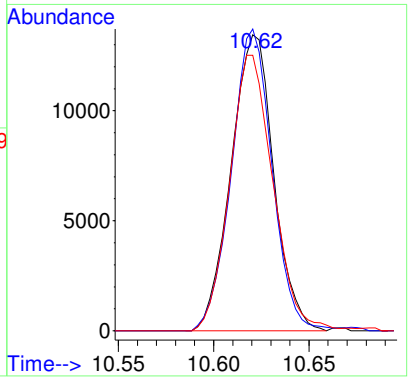


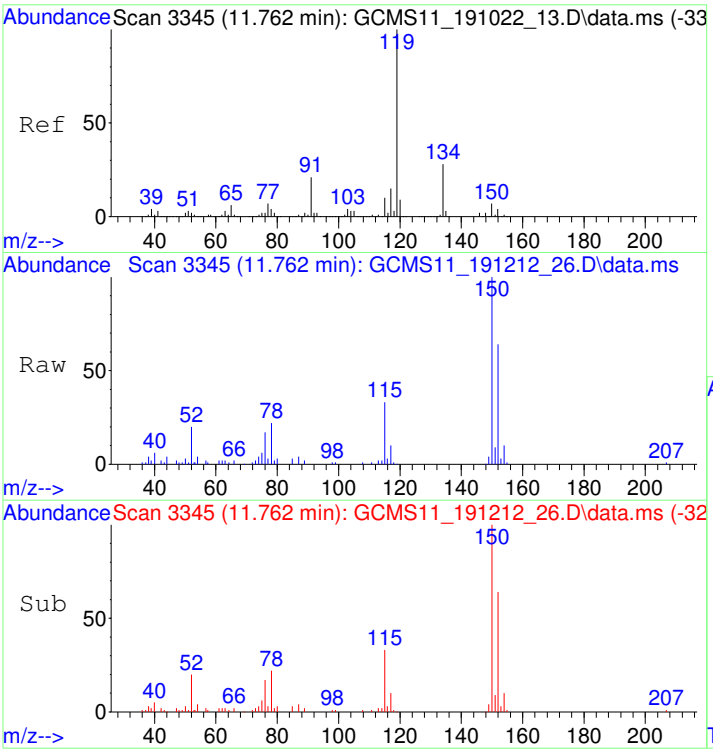


#55
4-BROMOFLUOROBENZENE
Concen: 47.81 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191212_26.D
Acq: 13 Dec 2019 12:57 am

Tgt Ion: 95 Resp: 20915

Ion	Ratio	Lower	Upper
95	100		
174	97.0	68.5	128.5
176	94.5	66.8	126.8

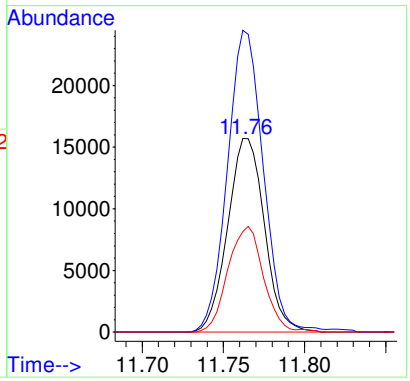




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.76 min Scan# 3345
Delta R.T. -0.003 min
Lab File: GCMS11_191212_26.D
Acq: 13 Dec 2019 12:57 am

Tgt Ion:152 Resp: 24753

Ion	Ratio	Lower	Upper
152	100		
150	151.9	162.5	222.5#
115	52.8	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_27.D
Acq On : 13 Dec 2019 1:28 am
Operator : ko
Sample : 1912009-11
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 13 11:03:26 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

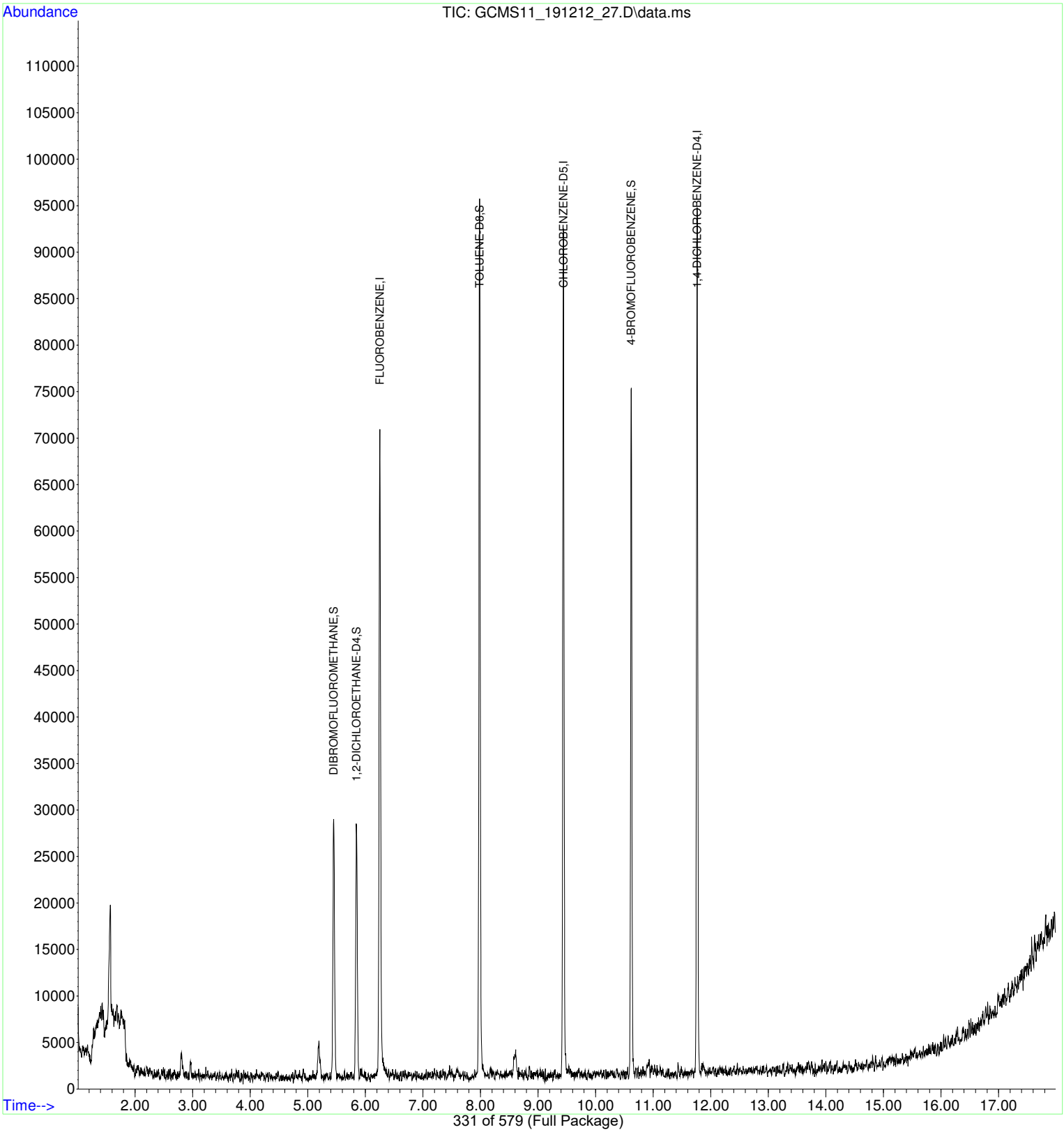
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.25	96	65003	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	24569	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	24664	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.45	113	16557	48.50	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	19146	47.06	ng	0.00
37) TOLUENE-D8	7.98	98	61067	47.77	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	20475	45.96	ng	0.00

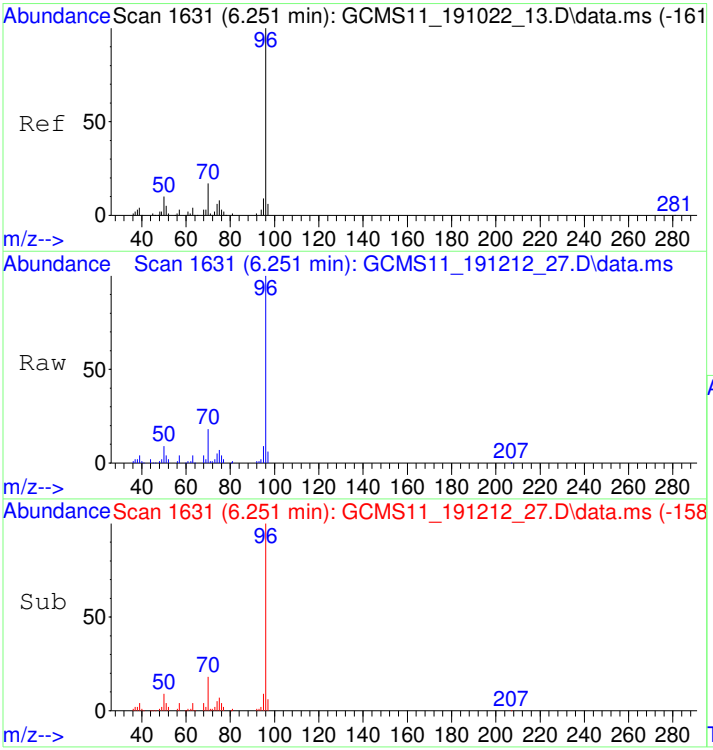
Target Compounds Qvalue

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_27.D
Acq On : 13 Dec 2019 1:28 am
Operator : ko
Sample : 1912009-11
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 13 11:03:26 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

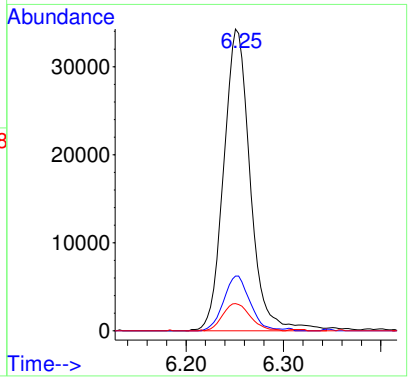


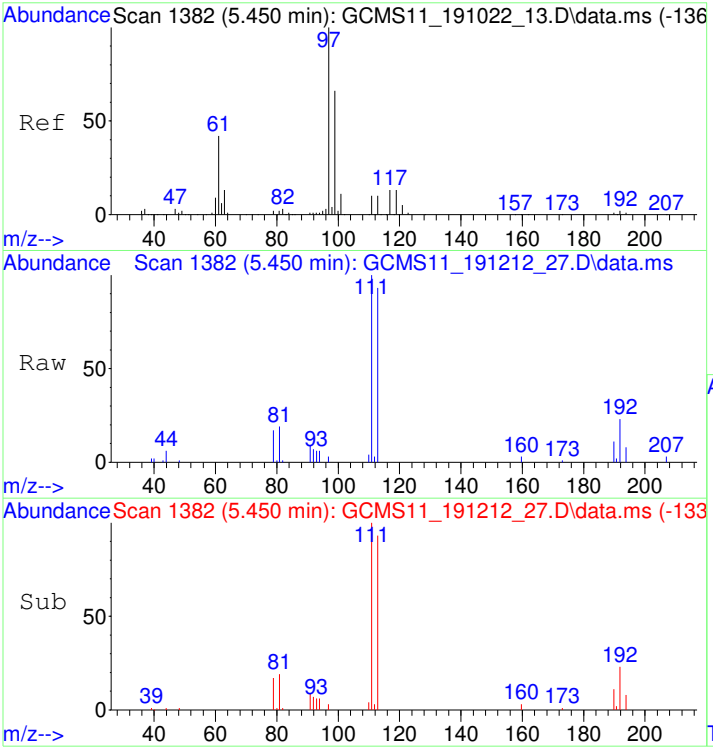


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1631
Delta R.T. -0.006 min
Lab File: GCMS11_191212_27.D
Acq: 13 Dec 2019 1:28 am

Tgt Ion: 96 Resp: 65003

Ion	Ratio	Lower	Upper
96	100		
70	18.1	0.0	48.3
50	9.5	0.0	39.5

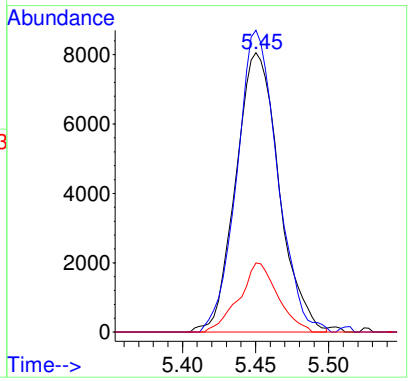


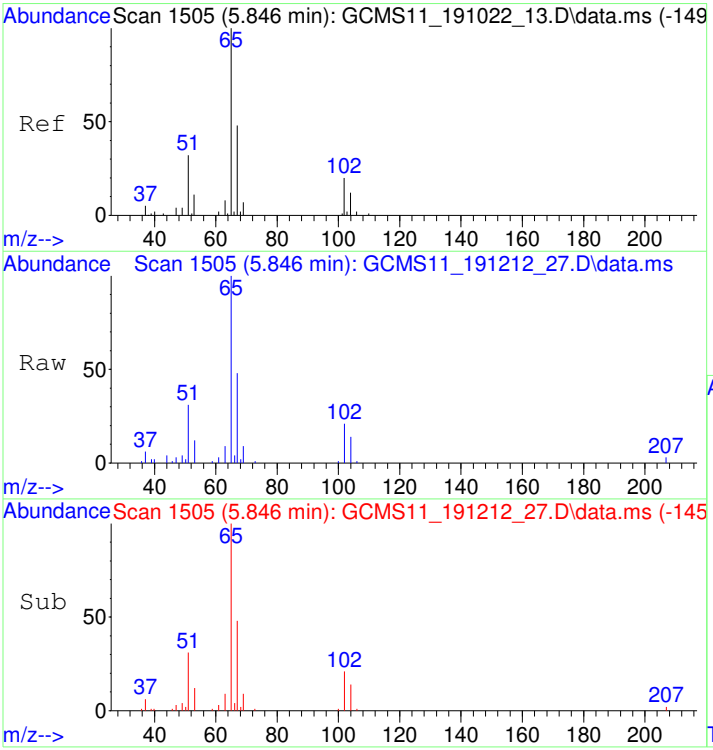


#22
DIBROMOFLUOROMETHANE
Concen: 48.50 ng
RT: 5.45 min Scan# 1382
Delta R.T. -0.010 min
Lab File: GCMS11_191212_27.D
Acq: 13 Dec 2019 1:28 am

Tgt Ion:113 Resp: 16557

Ion	Ratio	Lower	Upper
113	100		
111	101.4	75.2	135.2
192	22.1	0.0	52.1

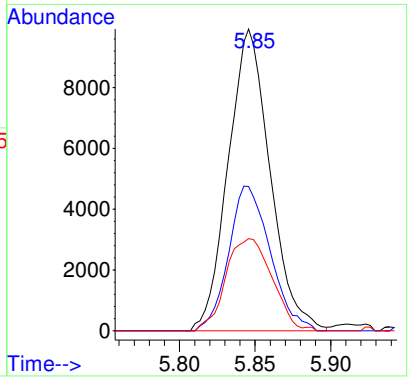


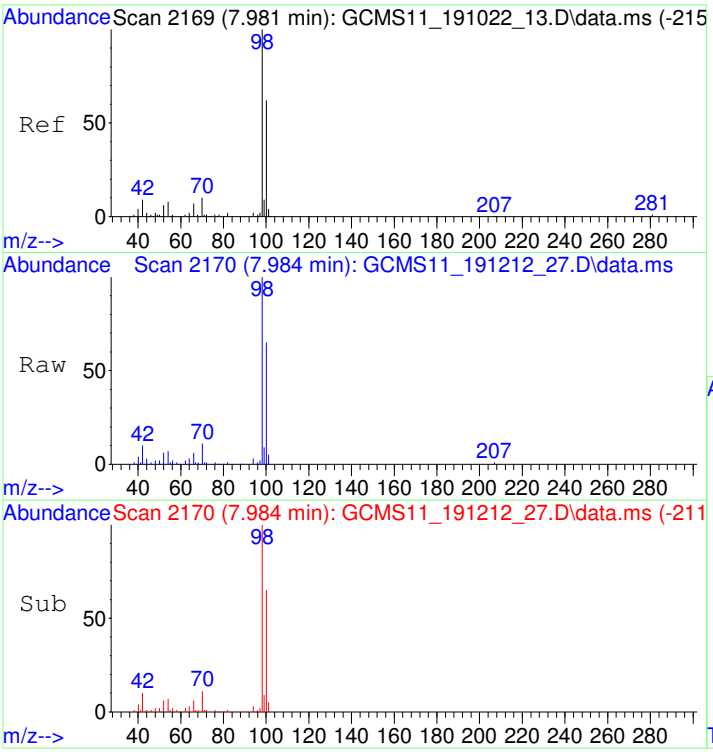


#26
1,2-DICHLOROETHANE-D4
Concen: 47.06 ng
RT: 5.85 min Scan# 1505
Delta R.T. -0.006 min
Lab File: GCMS11_191212_27.D
Acq: 13 Dec 2019 1:28 am

Tgt Ion: 65 Resp: 19146

Ion	Ratio	Lower	Upper
65	100		
67	47.7	15.4	75.4
51	33.7	2.7	62.7

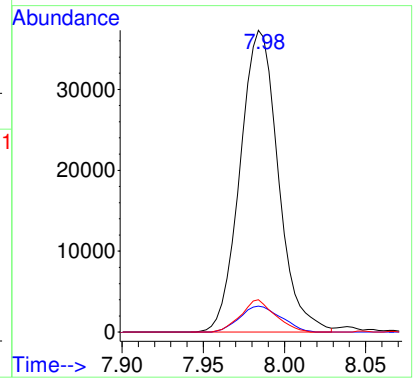


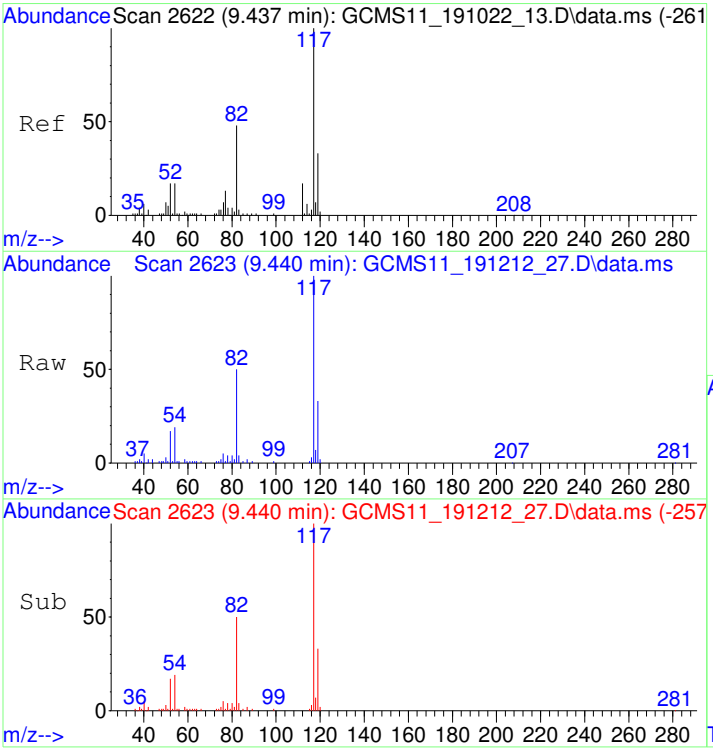


#37
TOLUENE-D8
Concen: 47.77 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191212_27.D
Acq: 13 Dec 2019 1:28 am

Tgt Ion: 98 Resp: 61067

Ion	Ratio	Lower	Upper
98	100		
99	9.3	0.0	39.8
70	9.6	0.0	40.7

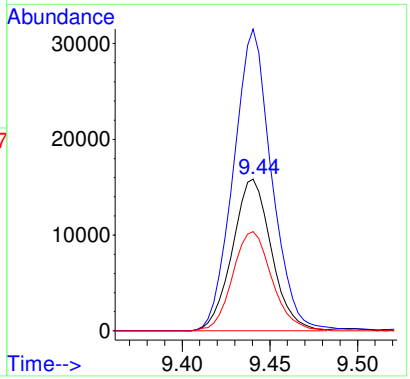


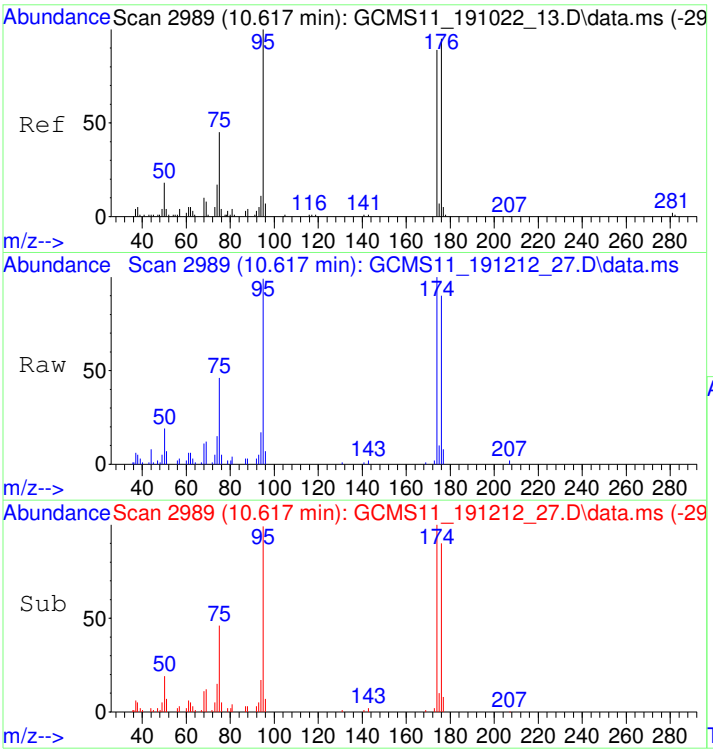


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191212_27.D
Acq: 13 Dec 2019 1:28 am

Tgt Ion: 82 Resp: 24569

Ion	Ratio	Lower	Upper
82	100		
117	195.3	160.7	220.7
119	65.8	33.5	93.5

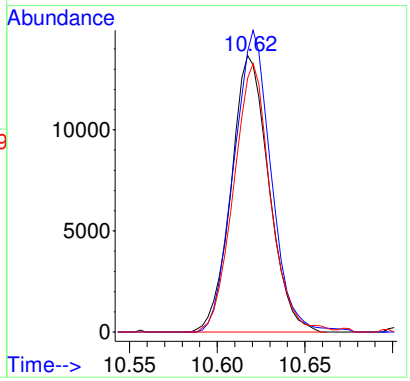


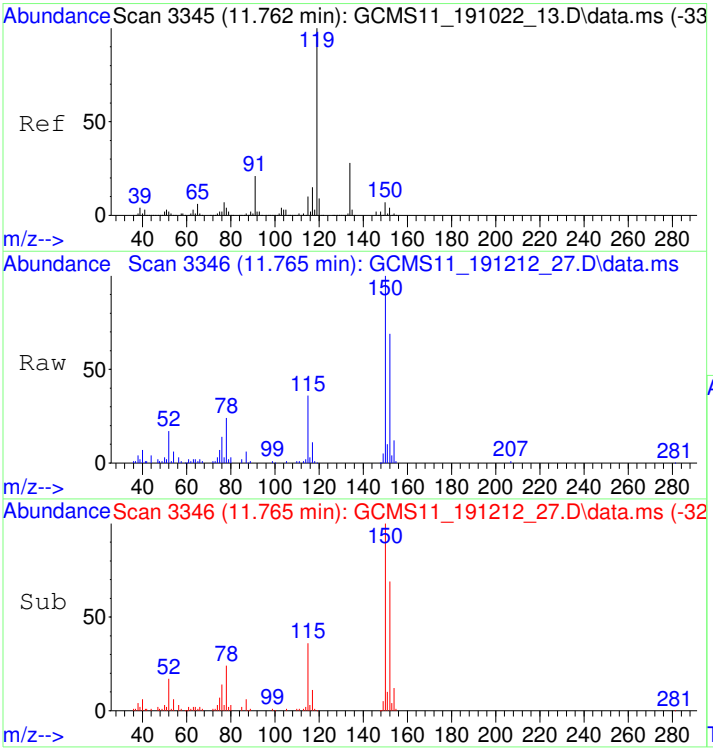


#55
4-BROMOFLUOROBENZENE
Concen: 45.96 ng
RT: 10.62 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191212_27.D
Acq: 13 Dec 2019 1:28 am

Tgt Ion: 95 Resp: 20475

Ion	Ratio	Lower	Upper
95	100		
174	108.0	68.5	128.5
176	94.7	66.8	126.8

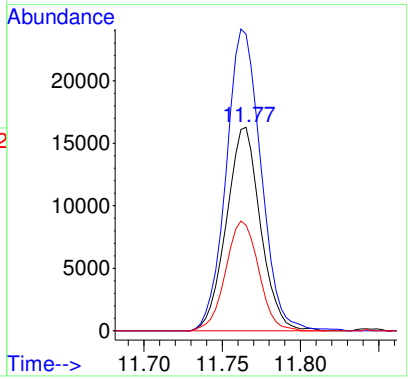




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_27.D
Acq: 13 Dec 2019 1:28 am

Tgt Ion:152 Resp: 24664

Ion	Ratio	Lower	Upper
152	100		
150	151.3	162.5	222.5#
115	52.2	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_28.D
Acq On : 13 Dec 2019 1:56 am
Operator : ko
Sample : 1912009-12
Misc : LIMS 19L1101
ALS Vial : 23 Sample Multiplier: 1

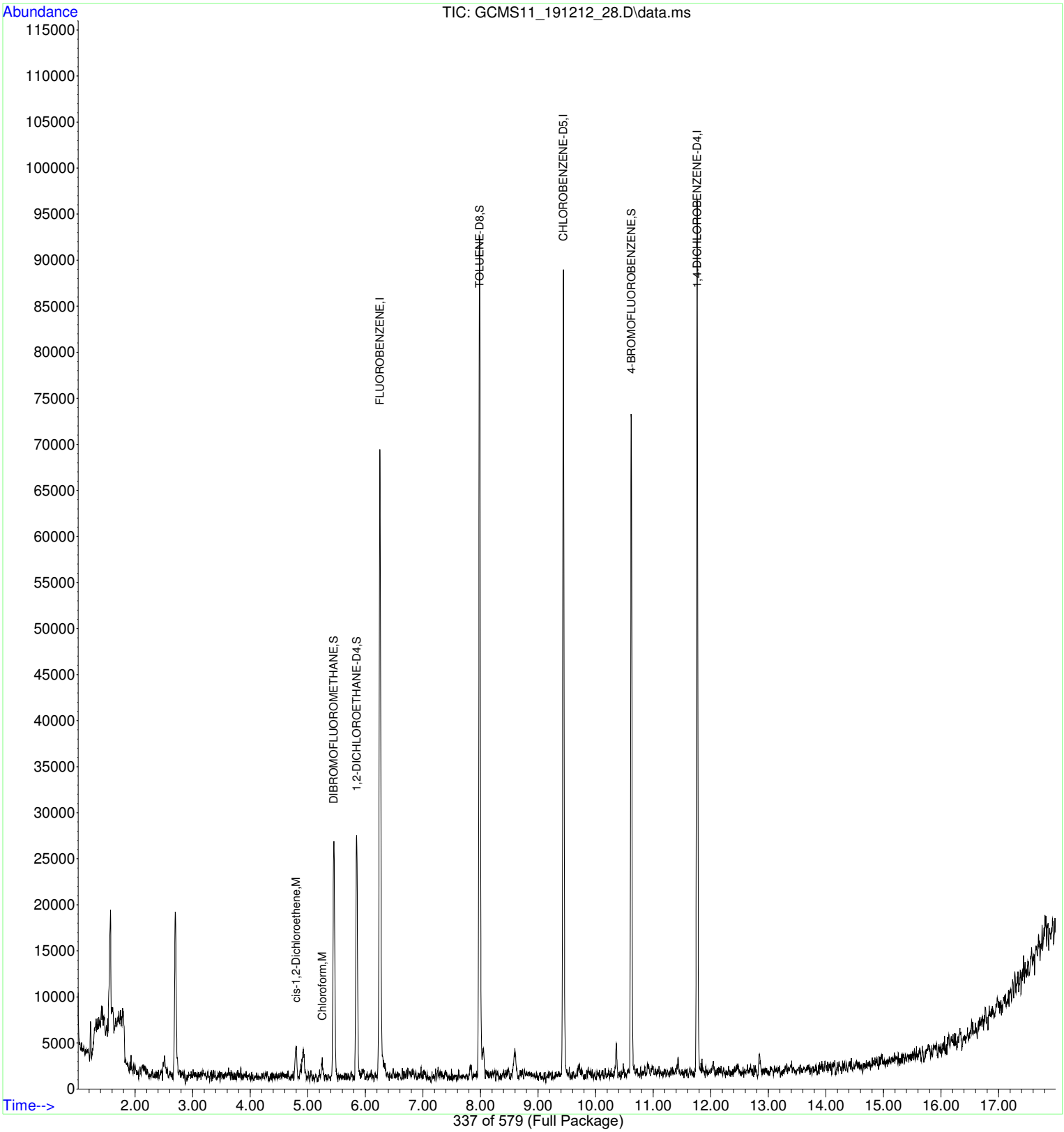
Quant Time: Dec 13 11:05:01 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

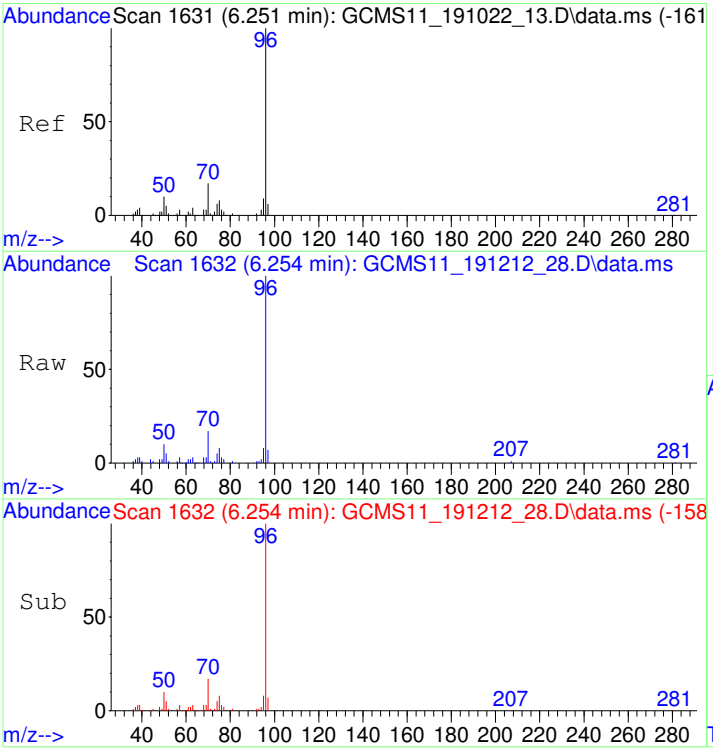
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) FLUOROBENZENE	6.25	96	64493	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	23996	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	24177	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.45	113	16221	47.89 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	19121	47.37 ng	0.00
37) TOLUENE-D8	7.98	98	60994	48.09 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	20827	47.87 ng	0.00
Target Compounds					Qvalue
18) cis-1,2-Dichloroethene	4.79	96	2066	5.07 ng	# 47
21) Chloroform	5.25	83	1480	2.38 ng	83

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_28.D
Acq On : 13 Dec 2019 1:56 am
Operator : ko
Sample : 1912009-12
Misc : LIMS 19L1101
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 13 11:05:01 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

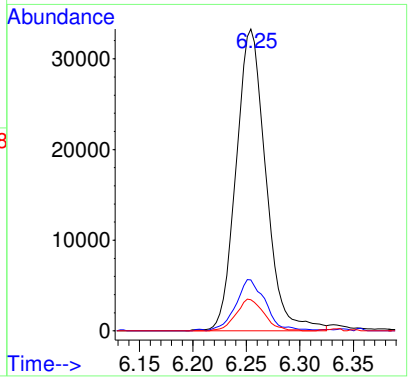


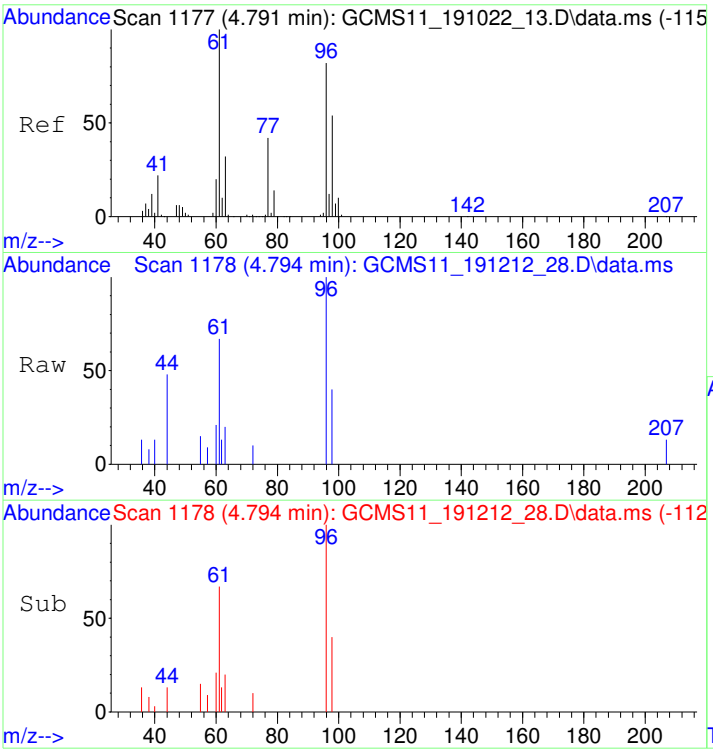


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191212_28.D
Acq: 13 Dec 2019 1:56 am

Tgt Ion: 96 Resp: 64493

Ion	Ratio	Lower	Upper
96	100		
70	17.0	0.0	48.3
50	9.9	0.0	39.5

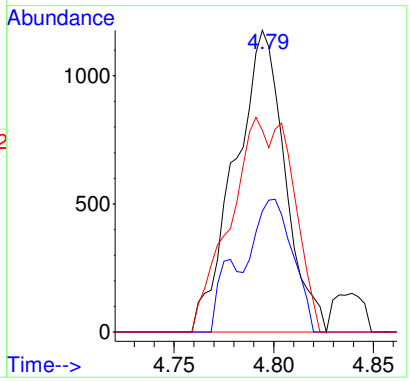


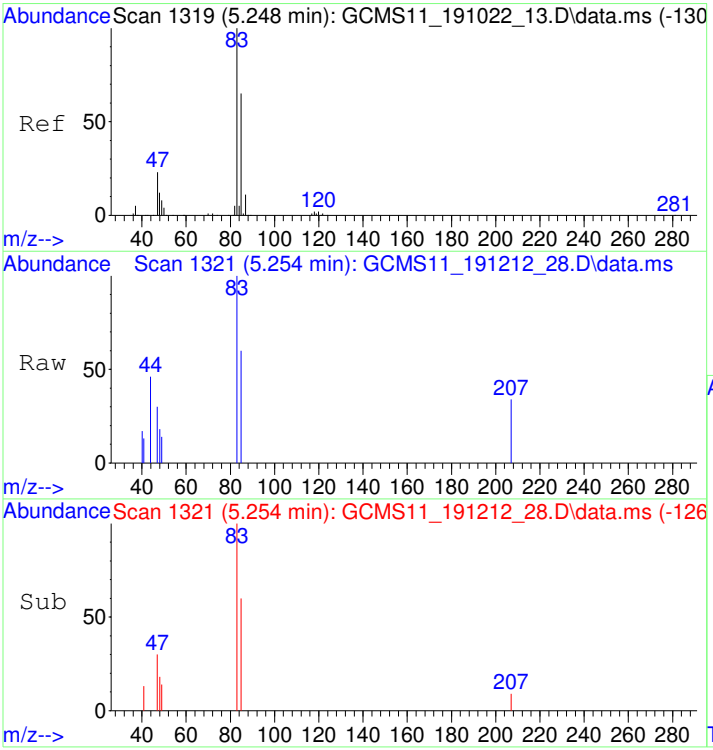


#18
cis-1,2-Dichloroethene
Concen: 5.07 ng
RT: 4.79 min Scan# 1178
Delta R.T. -0.006 min
Lab File: GCMS11_191212_28.D
Acq: 13 Dec 2019 1:56 am

Tgt Ion: 96 Resp: 2066

Ion	Ratio	Lower	Upper
96	100		
98	34.0	30.6	90.6
61	55.5	96.6	156.6#

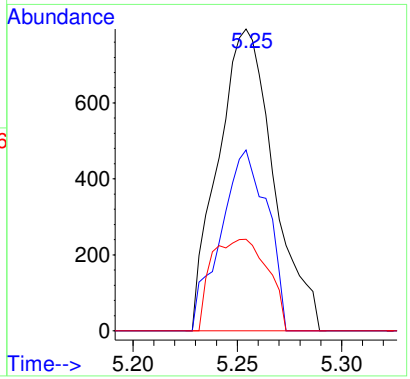


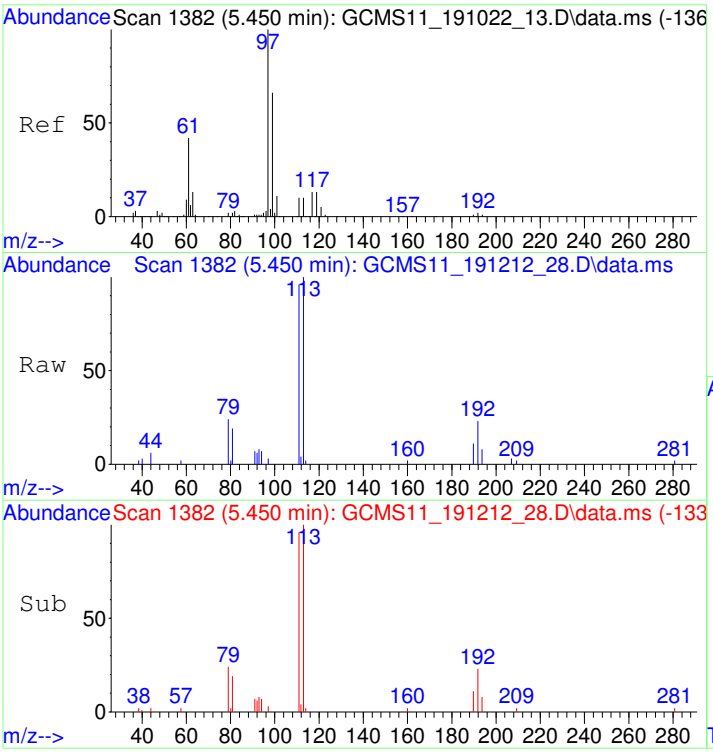


#21
Chloroform
Concen: 2.38 ng
RT: 5.25 min Scan# 1321
Delta R.T. -0.003 min
Lab File: GCMS11_191212_28.D
Acq: 13 Dec 2019 1:56 am

Tgt Ion: 83 Resp: 1480

Ion	Ratio	Lower	Upper
83	100		
85	50.3	34.2	94.2
47	30.5	0.0	53.2

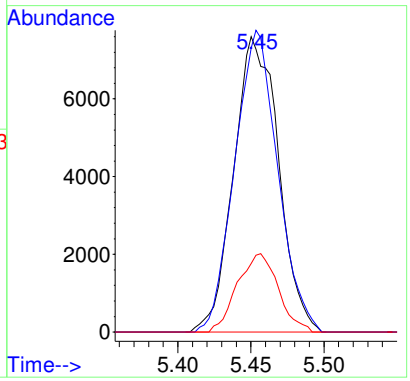


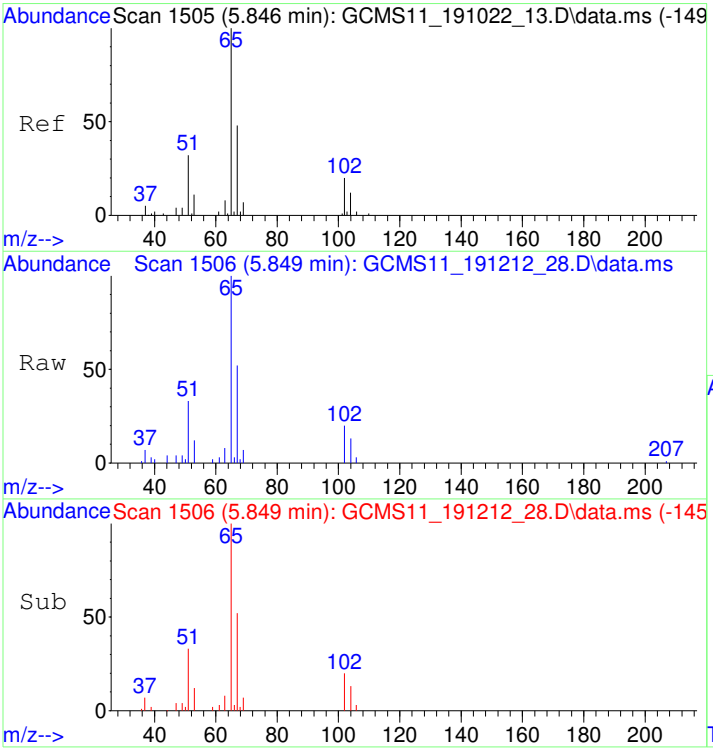


#22
DIBROMOFLUOROMETHANE
Concen: 47.89 ng
RT: 5.45 min Scan# 1382
Delta R.T. -0.010 min
Lab File: GCMS11_191212_28.D
Acq: 13 Dec 2019 1:56 am

Tgt Ion:113 Resp: 16221

Ion	Ratio	Lower	Upper
113	100		
111	97.9	75.2	135.2
192	24.3	0.0	52.1

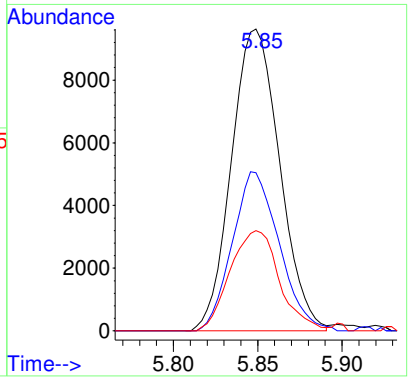


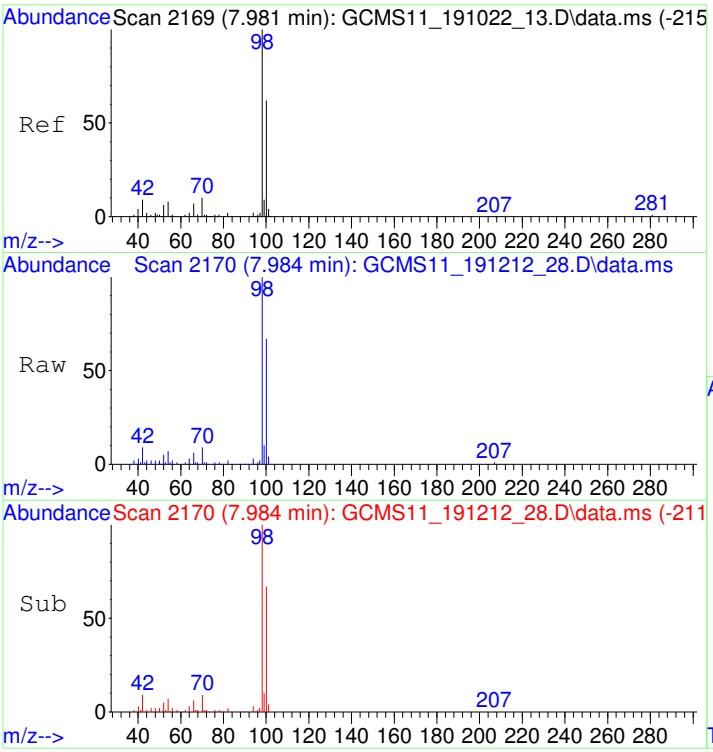


#26
1,2-DICHLOROETHANE-D4
Concen: 47.37 ng
RT: 5.85 min Scan# 1506
Delta R.T. -0.003 min
Lab File: GCMS11_191212_28.D
Acq: 13 Dec 2019 1:56 am

Tgt Ion: 65 Resp: 19121

Ion	Ratio	Lower	Upper
65	100		
67	51.1	15.4	75.4
51	33.9	2.7	62.7

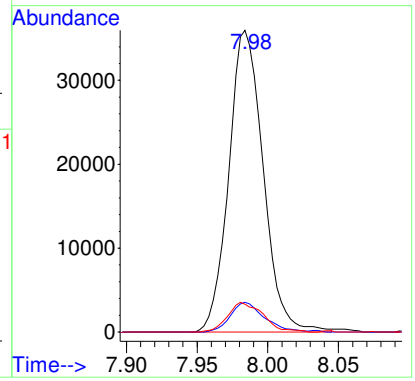


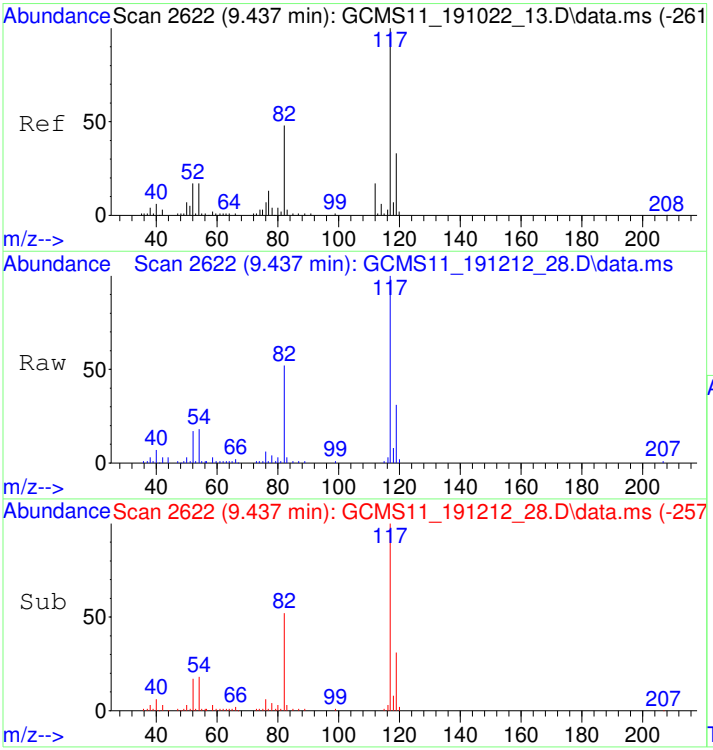


#37
TOLUENE-D8
Concen: 48.09 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191212_28.D
Acq: 13 Dec 2019 1:56 am

Tgt Ion: 98 Resp: 60994

Ion	Ratio	Lower	Upper
98	100		
99	9.7	0.0	39.8
70	10.2	0.0	40.7

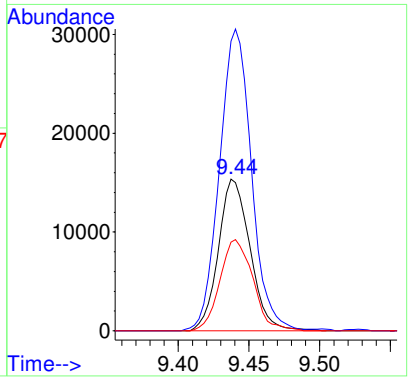


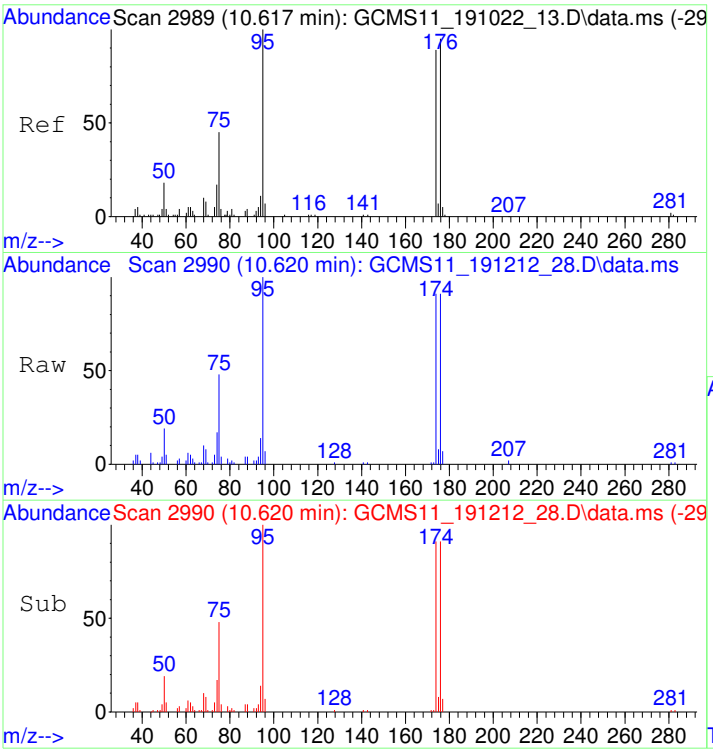


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2622
Delta R.T. -0.003 min
Lab File: GCMS11_191212_28.D
Acq: 13 Dec 2019 1:56 am

Tgt Ion: 82 Resp: 23996

Ion	Ratio	Lower	Upper
82	100		
117	200.2	160.7	220.7
119	62.6	33.5	93.5

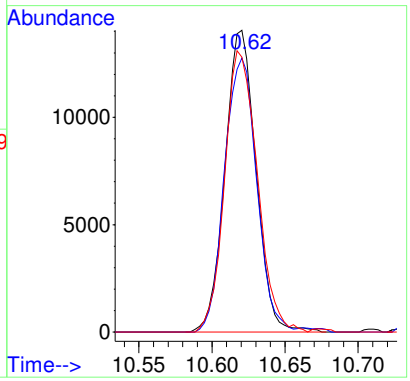


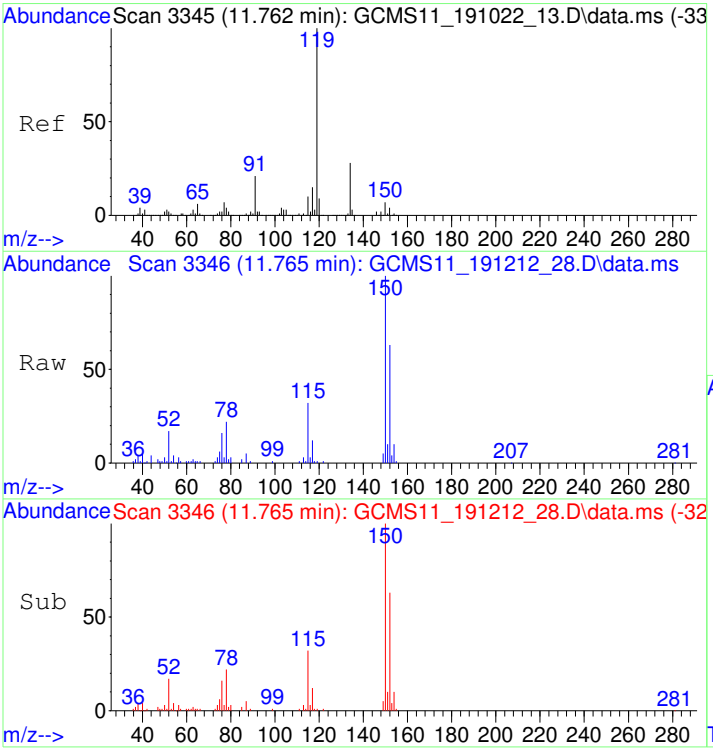


#55
4-BROMOFLUOROBENZENE
Concen: 47.87 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191212_28.D
Acq: 13 Dec 2019 1:56 am

Tgt Ion: 95 Resp: 20827

Ion	Ratio	Lower	Upper
95	100		
174	94.1	68.5	128.5
176	97.9	66.8	126.8

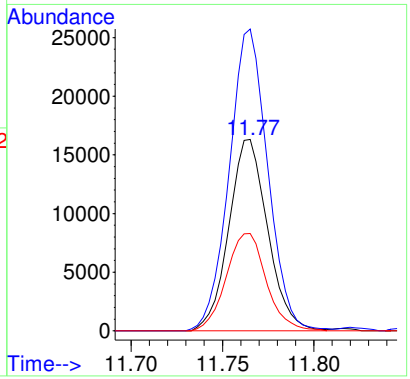




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_28.D
Acq: 13 Dec 2019 1:56 am

Tgt Ion:152 Resp: 24177

Ion	Ratio	Lower	Upper
152	100		
150	156.4	162.5	222.5#
115	52.5	82.3	142.3#



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: 12/13/2019

Volatiles in WATER Preparation Bench Sheet

Analyst(s): Kelsey O'Malley

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

Batch Number: B19L019

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
1912009-02RE1						5	|				5x Atomx dilution
1912009-03RE1						5	|				2x Atomx dilution
1912009-04RE1						5	|				
1912009-05RE1						5	|				5x Atomx dilution
1912009-06RE1						5	|				
1912009-07RE1						5	|				10X
NR 1912009-08RE1						5	|				~~2x Atomx dilution~~
1912009-09RE1						5	|				KO 12.17.19
1912009-10RE1						5	|				
1912009-11RE1						5	|				
B19L019-BLK1	-					5					Method Blank
B19L019-BLK2	-					5					Storage Blank
B19L019-BS1	-	19L1201	2.5	19L1812	2.5	5					
B19L019-BSD1	-	"	"	"	"	5					

NR: Not reported KO 12.30.19

Batch Comments: From B19L012 on 12/13/2019 by KO

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: 12/13/2019

Volatiles in WATER Preparation Bench Sheet

Analyst(s): Kelsey O'Malley

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

Batch Number: B19L019
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

pH paper LIMS ID: 180/901

Other reagents LIMS ID(s): _____

Batch Comments: From B19L012 on 12/13/2019 by KO

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

Method 8260 - BFB Tune Check

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_55.D
Acq On : 13 Dec 2019 3:30 pm
Operator : ko
Sample : IB9
Misc : LIMS 19L1101
ALS Vial : 99 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Title :
Last Update : Fri Dec 13 10:29:00 2019

AutoFind: Averaged scan 2979 to 3006; Bkg corrected with scan 2978

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	830	PASS
75	95	30	60	52.4	2019	PASS
95	95	100	100	100.0	3854	PASS
96	95	5	9	6.0	231	PASS
173	174	0.00	2	1.4	51	PASS
174	95	50	100	92.7	3574	PASS
175	174	5	9	7.5	267	PASS
176	174	95	101	96.4	3445	PASS
177	176	5	9	6.2	212	PASS

GCMS11_1912..._FULL LIST.M Mon Dec 30 12:26:22 2019

Method 8260 - BFB Tune Check

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191212\
Data File : GCMS11_191212_81.D
Acq On : 14 Dec 2019 3:56 am
Operator : ko
Sample : IB17
Misc : LIMS 19L1101
ALS Vial : 99 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Title :
Last Update : Fri Dec 13 10:29:00 2019

AutoFind: Averaged scan 2979 to 3006; Bkg corrected with scan 2978

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	720	PASS
75	95	30	60	52.7	1821	PASS
95	95	100	100	100.0	3454	PASS
96	95	5	9	6.8	236	PASS
173	174	0.00	2	1.5	53	PASS
174	95	50	100	99.5	3436	PASS
175	174	5	9	7.8	268	PASS
176	174	95	101	97.9	3365	PASS
177	176	5	9	6.8	228	PASS

GCMS11_1912..._FULL LIST.M Mon Dec 30 12:28:40 2019

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

```
     Datafile          GCMS11_191212_57
     Method            GCMS11_190612_ACQ
58) Sample        47   19L12011-19
     Datafile          GCMS11_191212_58
     Method            GCMS11_190612_ACQ
59) Sample        48   19L12011-20
     Datafile          GCMS11_191212_59
     Method            GCMS11_190612_ACQ
60) Blank         99   IB10.5
     Datafile          GCMS11_191212_60
     Method            GCMS11_190612_ACQ
61) Sample        49   B19L015-MRL1
     Datafile          GCMS11_191212_61
     Method            GCMS11_190612_ACQ
62) Spike         50   B19L015-MS1
     Datafile          GCMS11_191212_62
     Method            GCMS11_190612_ACQ
63) Spike         51   B19L015-MSD1
     Datafile          GCMS11_191212_63
     Method            GCMS11_190612_ACQ
64) Blank         99   IB11
     Datafile          GCMS11_191212_64
     Method            GCMS11_190612_ACQ
65) Blank         99   IB12
     Datafile          GCMS11_191212_65
     Method            GCMS11_190612_ACQ
66) Sample        52   B19L015-BSD1
     Datafile          GCMS11_191212_66
     Method            GCMS11_190612_ACQ
67) Blank         99   IB13
     Datafile          GCMS11_191212_67
     Method            GCMS11_190612_ACQ
68) Blank         99   IB14
     Datafile          GCMS11_191212_68
     Method            GCMS11_190612_ACQ
69) Blank         53   B19L019-BLK1
     Datafile          GCMS11_191212_69
     Method            GCMS11_190612_ACQ
70) Blank         54   B19L019-BLK2
     Datafile          GCMS11_191212_70
     Method            GCMS11_190612_ACQ
71) Sample        55   1912009-11RE1
     Datafile          GCMS11_191212_71
     Method            GCMS11_190612_ACQ
72) Sample        56   1912009-04RE1
     Datafile          GCMS11_191212_72
     Method            GCMS11_190612_ACQ
73) Sample        57   1912009-07RE1
```

Beginning of sequence is associated with the calibration and with B19L012 and can be found on pages 72 and 213, respectively.
-KO 12.30.19

```
     Datafile          GCMS11_191212_73
     Method            GCMS11_190612_ACQ
74) Sample         58  1912009-10RE1
     Datafile          GCMS11_191212_74
     Method            GCMS11_190612_ACQ
75) Sample         59  1912009-06RE1
     Datafile          GCMS11_191212_75
     Method            GCMS11_190612_ACQ
76) Sample         60  1912009-09RE1
     Datafile          GCMS11_191212_76
     Method            GCMS11_190612_ACQ
77) Blank          99  IB15
     Datafile          GCMS11_191212_77
     Method            GCMS11_190612_ACQ
78) Sample         61  B19L019-BS1
     Datafile          GCMS11_191212_78
     Method            GCMS11_190612_ACQ
79) Sample         62  1912009-02RE1
     Datafile          GCMS11_191212_79
     Method            GCMS11_190612_ACQ
80) Blank          99  IB16
     Datafile          GCMS11_191212_80
     Method            GCMS11_190612_ACQ
81) Blank          99  IB17
     Datafile          GCMS11_191212_81
     Method            GCMS11_190612_ACQ
82) Sample         63  1912009-05RE1
     Datafile          GCMS11_191212_82
     Method            GCMS11_190612_ACQ
83) Blank          99  IB18
     Datafile          GCMS11_191212_83
     Method            GCMS11_190612_ACQ
84) Blank          99  IB19
     Datafile          GCMS11_191212_84
     Method            GCMS11_190612_ACQ
85) Blank          99  IB20
     Datafile          GCMS11_191212_85
     Method            GCMS11_190612_ACQ
86) Sample         64  1912009-03RE1
     Datafile          GCMS11_191212_86
     Method            GCMS11_190612_ACQ
87) Blank          99  IB21
     Datafile          GCMS11_191212_87
     Method            GCMS11_190612_ACQ
88) Blank          99  IB22
     Datafile          GCMS11_191212_88
     Method            GCMS11_190612_ACQ
89) Blank          99  IB23
```

```
                        2019 Dec 12 1810 Sequence Log
     Datafile           GCMS11_191212_89
     Method             GCMS11_190612_ACQ
 90) Sample         65  1912009-08RE1
     Datafile           GCMS11_191212_90
     Method             GCMS11_190612_ACQ
 91) Blank          99  IB24
     Datafile           GCMS11_191212_91
     Method             GCMS11_190612_ACQ
 92) Blank          99  IB25
     Datafile           GCMS11_191212_92
     Method             GCMS11_190612_ACQ
 93) Blank          99  IB26
     Datafile           GCMS11_191212_93
     Method             GCMS11_190612_ACQ
 94) Blank          99  IB27
     Datafile           GCMS11_191212_94
     Method             GCMS11_190612_ACQ
 95) Blank          99  IB28
     Datafile           GCMS11_191212_95
     Method             GCMS11_190612_ACQ
 96) Sample         66  B19L019-BSD1
     Datafile           GCMS11_191212_96
     Method             GCMS11_190612_ACQ

Sequence completed Sat Dec 14 11:28:41 2019

  D:\KELSEY\191212\2019 Dec 12 1810 Quality Log.LOG
  D:\KELSEY\191212\2019 Dec 12 1810 Sequence Log .LOG
```

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_69.D
Acq On : 13 Dec 2019 10:13 pm
Operator : ko
Sample : B19L019-BLK1
Misc : LIMS 19L1101
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 16 14:02:01 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

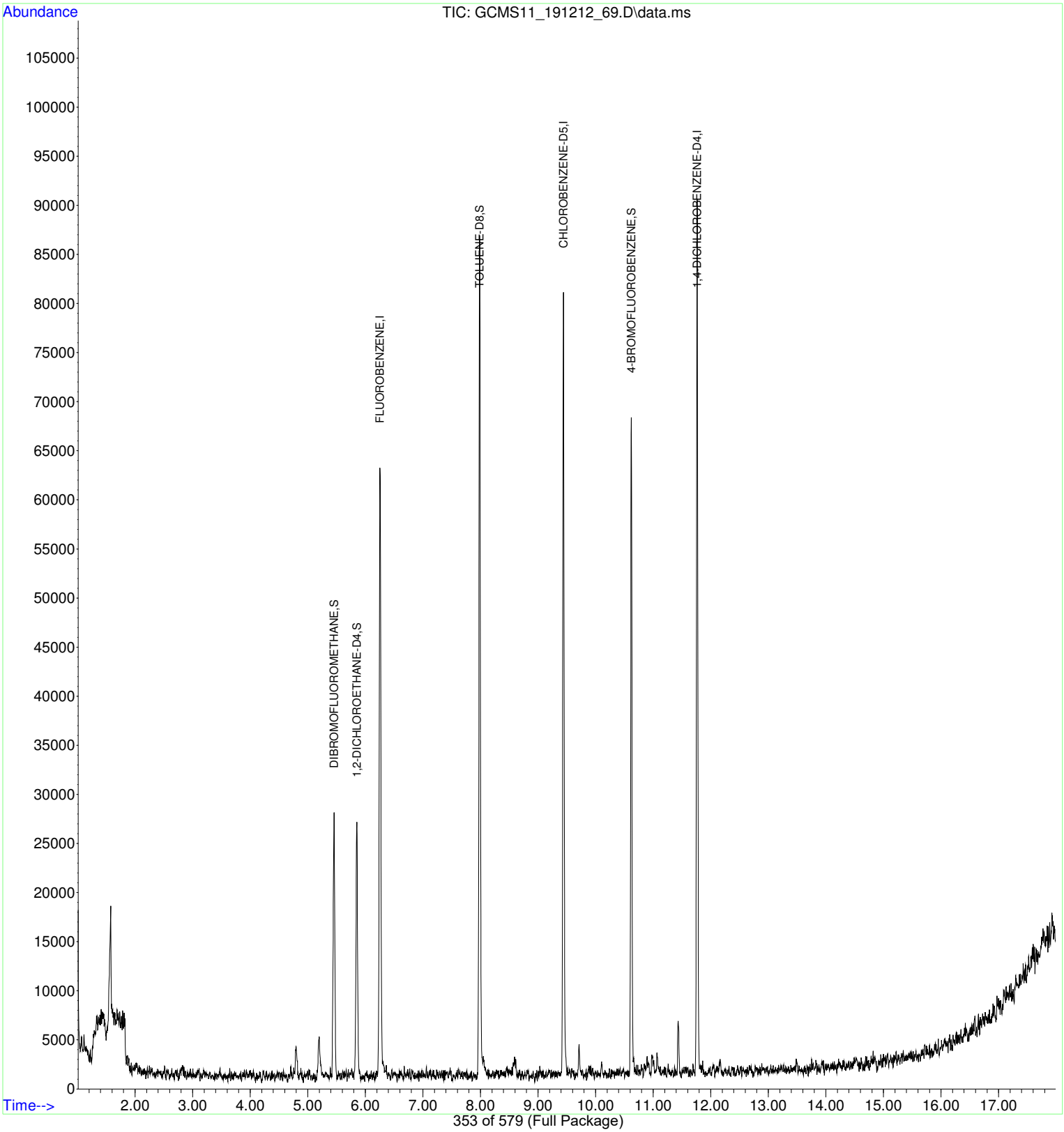
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.25	96	57606	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	21757	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	22994	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.46	113	14934	49.36	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	17850	49.51	ng	0.00
37) TOLUENE-D8	7.98	98	57055	50.36	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	19039	48.26	ng	0.00

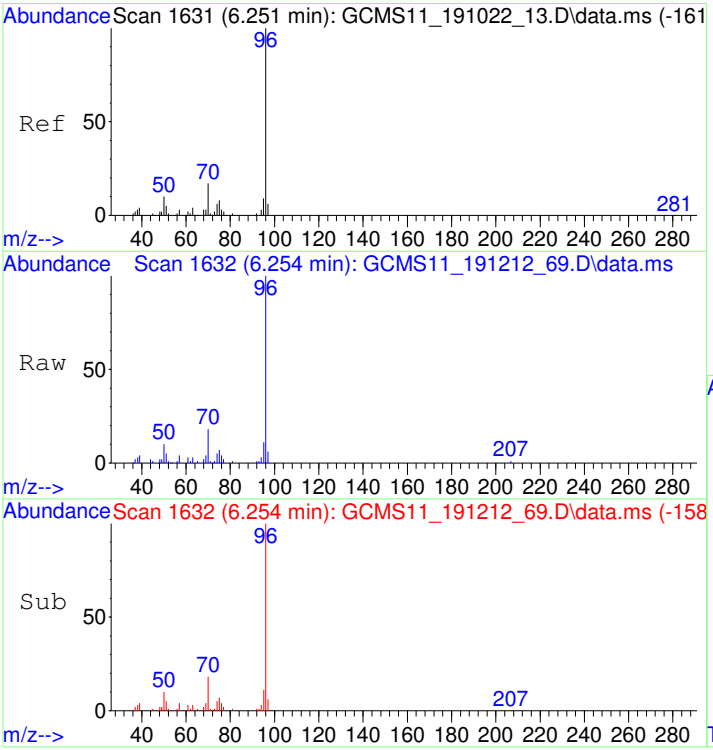
Target Compounds Qvalue

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_69.D
Acq On : 13 Dec 2019 10:13 pm
Operator : ko
Sample : B19L019-BLK1
Misc : LIMS 19L1101
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Dec 16 14:02:01 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

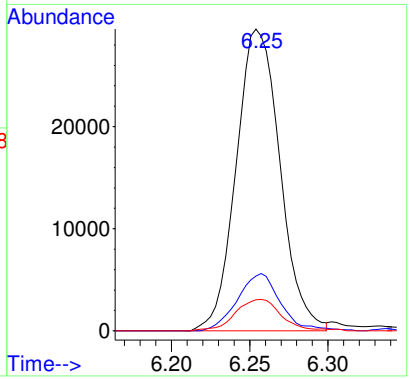


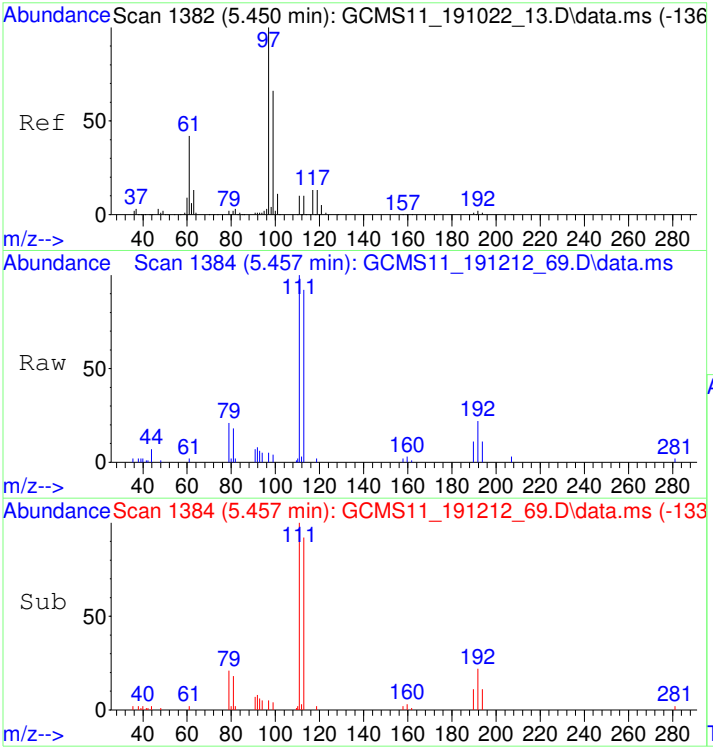


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191212_69.D
Acq: 13 Dec 2019 10:13 pm

Tgt Ion: 96 Resp: 57606

Ion	Ratio	Lower	Upper
96	100		
70	18.6	0.0	48.3
50	11.0	0.0	39.5

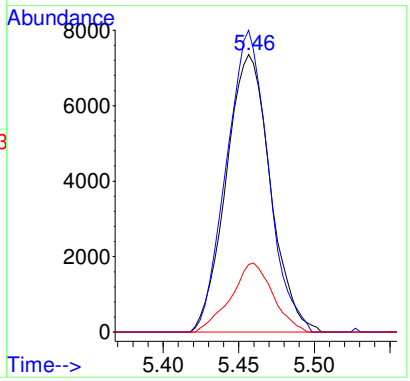


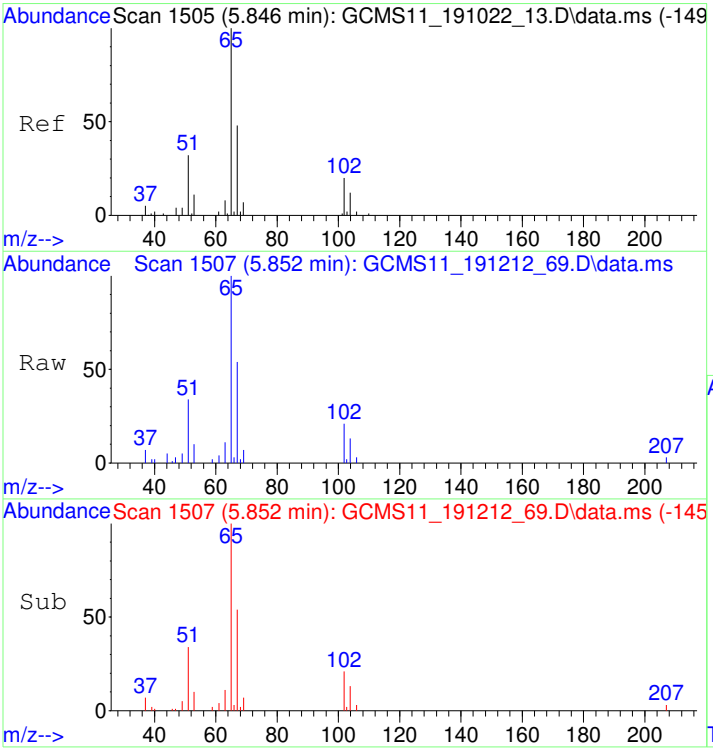


#22
DIBROMOFLUOROMETHANE
Concen: 49.36 ng
RT: 5.46 min Scan# 1384
Delta R.T. -0.003 min
Lab File: GCMS11_191212_69.D
Acq: 13 Dec 2019 10:13 pm

Tgt Ion:113 Resp: 14934

Ion	Ratio	Lower	Upper
113	100		
111	102.9	75.2	135.2
192	23.7	0.0	52.1

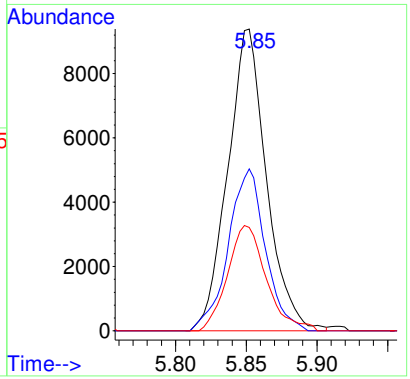


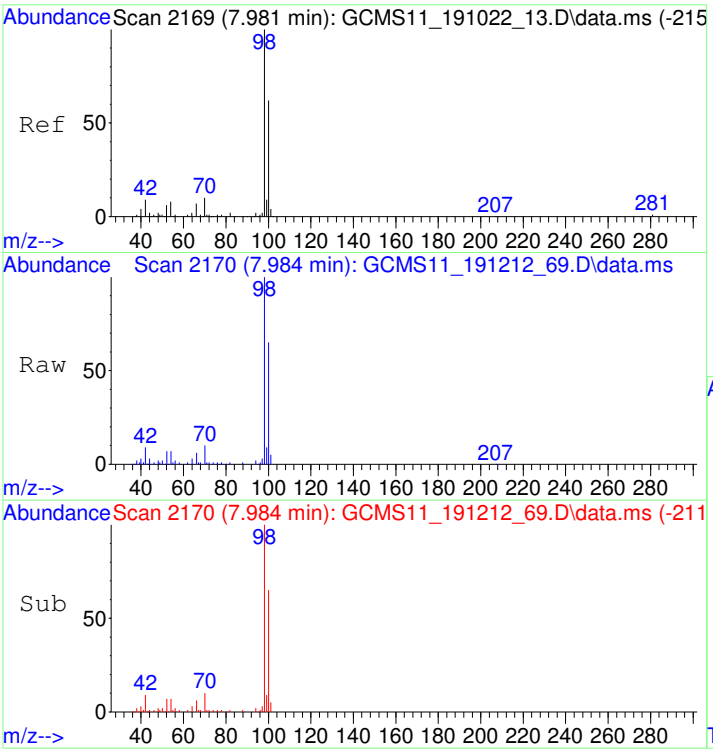


#26
1,2-DICHLOROETHANE-D4
Concen: 49.51 ng
RT: 5.85 min Scan# 1507
Delta R.T. -0.000 min
Lab File: GCMS11_191212_69.D
Acq: 13 Dec 2019 10:13 pm

Tgt Ion: 65 Resp: 17850

Ion	Ratio	Lower	Upper
65	100		
67	51.4	15.4	75.4
51	34.9	2.7	62.7

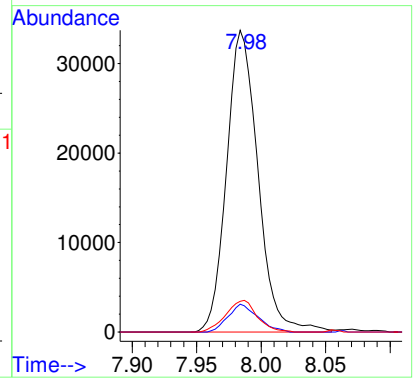


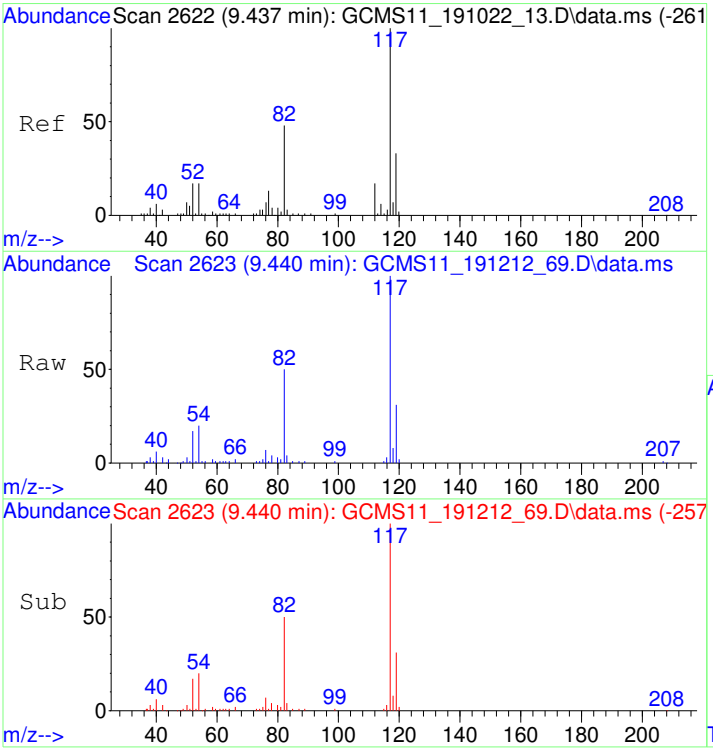


#37
TOLUENE-D8
Concen: 50.36 ng
RT: 7.98 min Scan# 2170
Delta R.T. -0.000 min
Lab File: GCMS11_191212_69.D
Acq: 13 Dec 2019 10:13 pm

Tgt Ion: 98 Resp: 57055

Ion	Ratio	Lower	Upper
98	100		
99	8.8	0.0	39.8
70	10.5	0.0	40.7

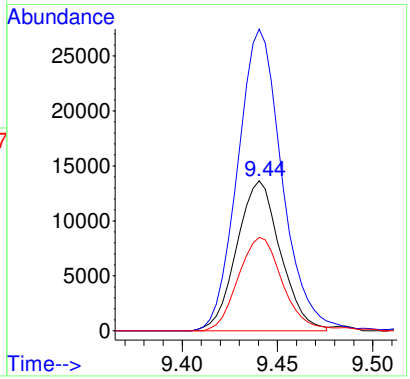


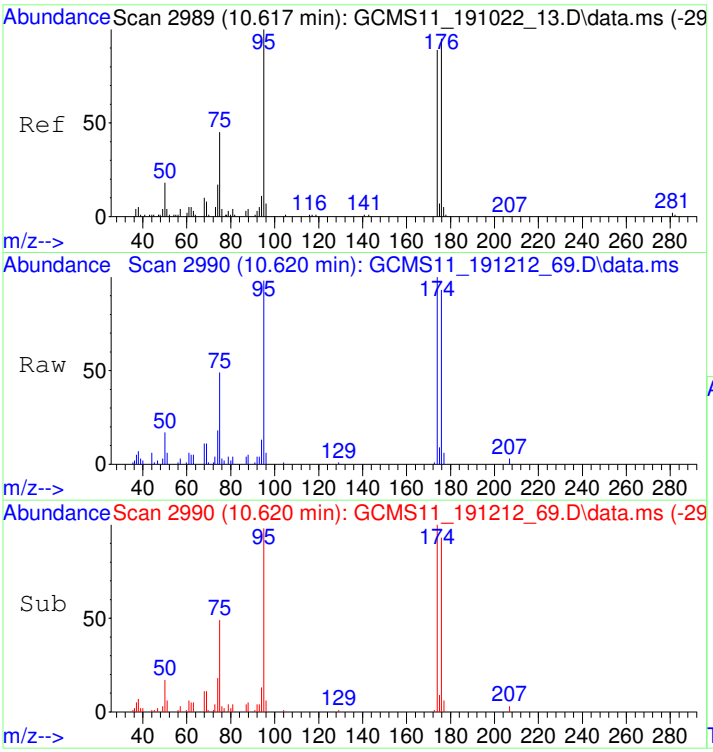


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191212_69.D
Acq: 13 Dec 2019 10:13 pm

Tgt Ion: 82 Resp: 21757

Ion	Ratio	Lower	Upper
82	100		
117	205.1	160.7	220.7
119	64.0	33.5	93.5

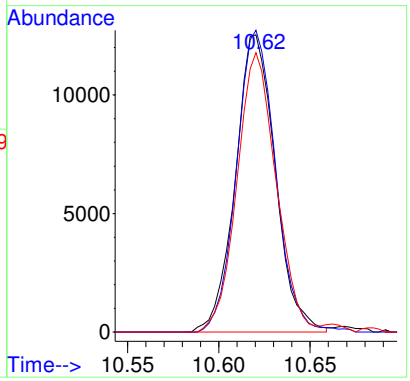


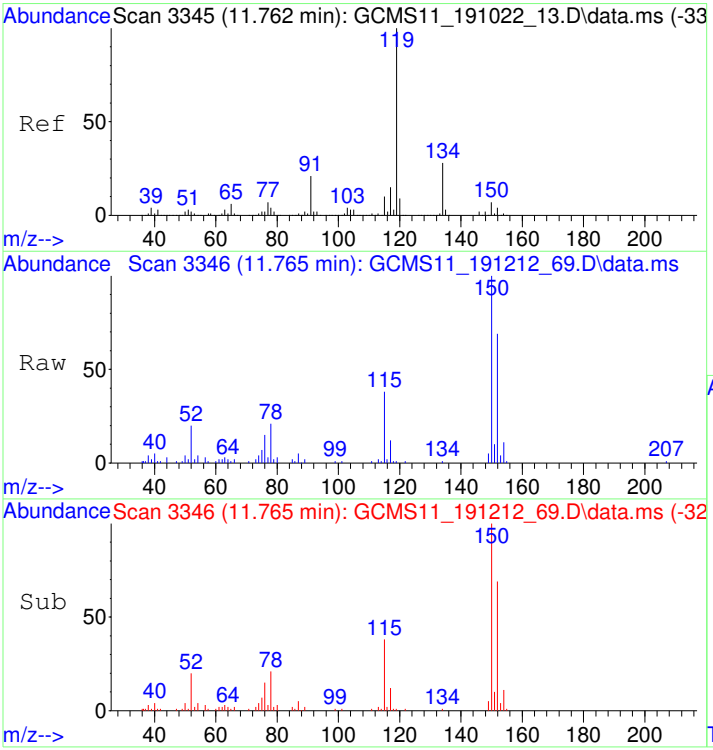


#55
4-BROMOFLUOROBENZENE
Concen: 48.26 ng
RT: 10.62 min Scan# 2990
Delta R.T. -0.000 min
Lab File: GCMS11_191212_69.D
Acq: 13 Dec 2019 10:13 pm

Tgt Ion: 95 Resp: 19039

Ion	Ratio	Lower	Upper
95	100		
174	99.6	68.5	128.5
176	91.8	66.8	126.8

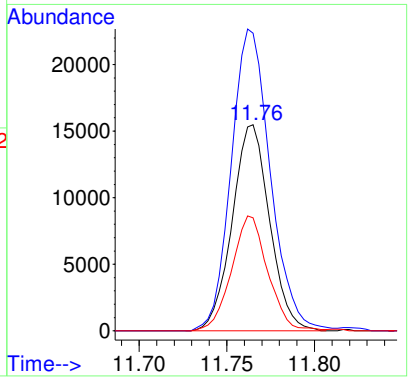




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.76 min Scan# 3346
Delta R.T. -0.000 min
Lab File: GCMS11_191212_69.D
Acq: 13 Dec 2019 10:13 pm

Tgt Ion:152 Resp: 22994

Ion	Ratio	Lower	Upper
152	100		
150	153.2	162.5	222.5#
115	54.0	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_70.D
Acq On : 13 Dec 2019 10:42 pm
Operator : ko
Sample : B19L019-BLK2
Misc : LIMS 19L1101
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 16 14:02:42 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

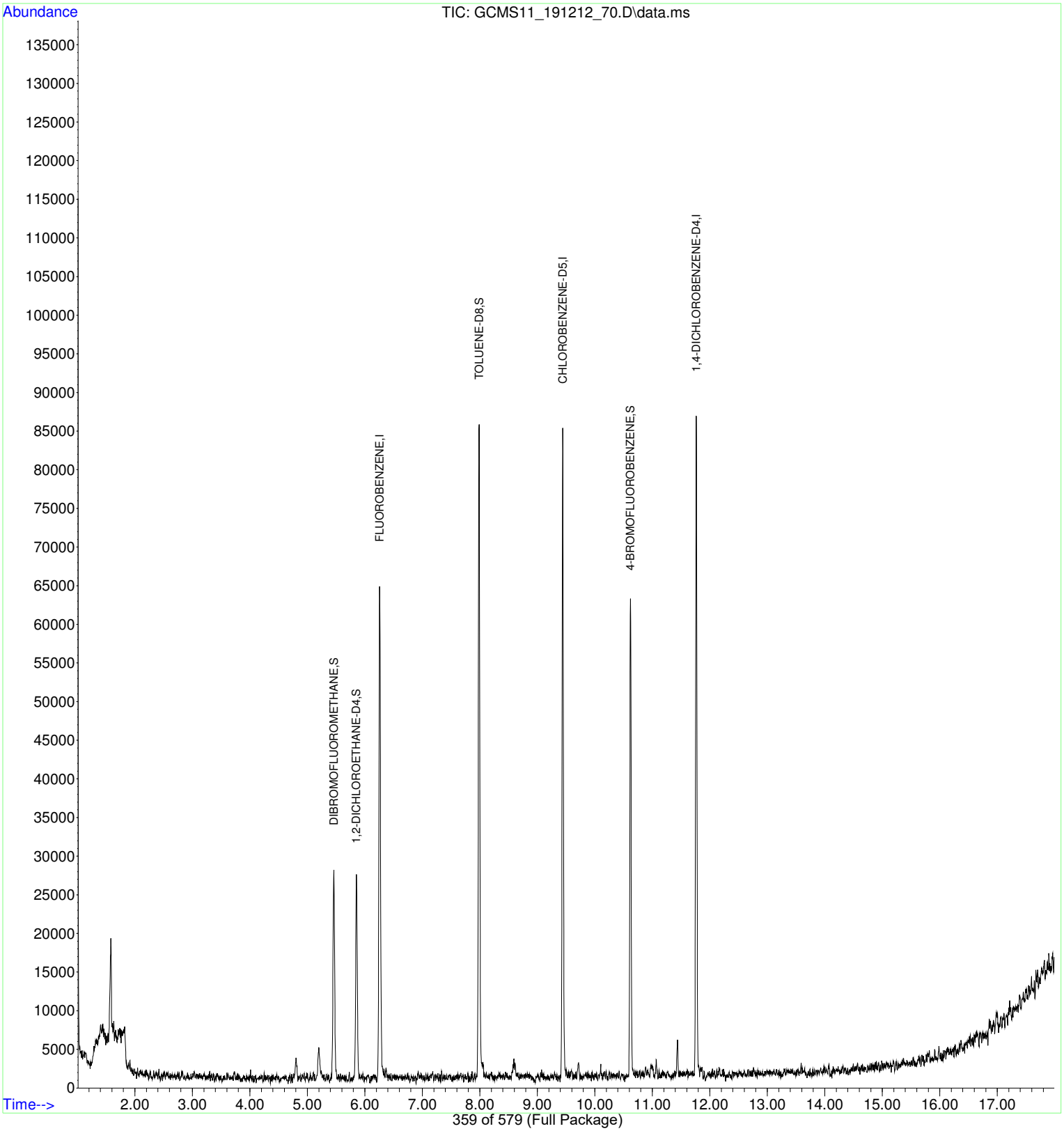
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) FLUOROBENZENE	6.26	96	60037	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	21981	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	22095	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.46	113	15834	50.22 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	17525	46.64 ng	0.00
37) TOLUENE-D8	7.99	98	55600	47.09 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	18416	46.21 ng	0.00

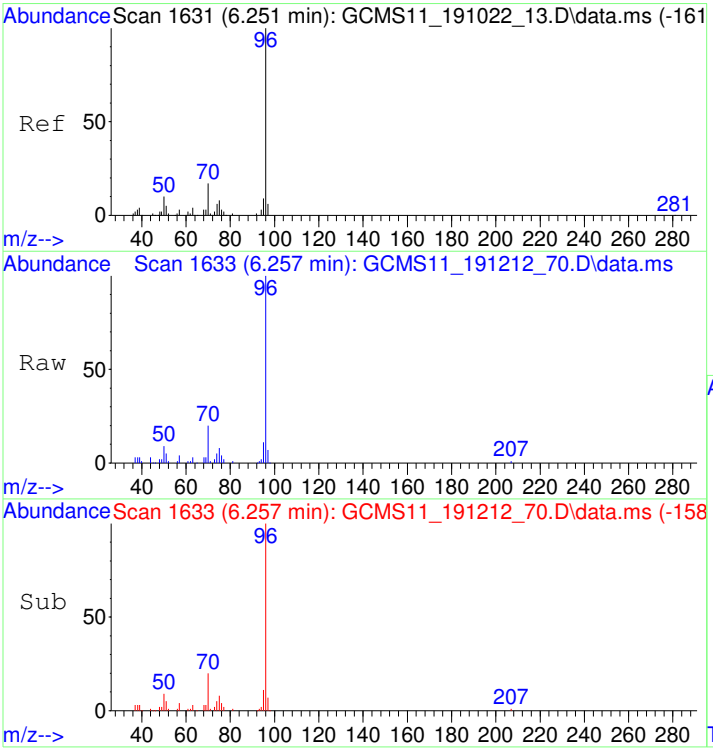
Target Compounds	Qvalue

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_70.D
Acq On : 13 Dec 2019 10:42 pm
Operator : ko
Sample : B19L019-BLK2
Misc : LIMS 19L1101
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Dec 16 14:02:42 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

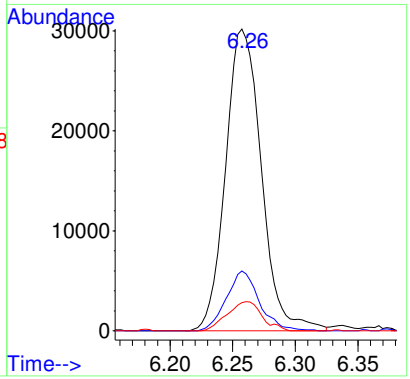


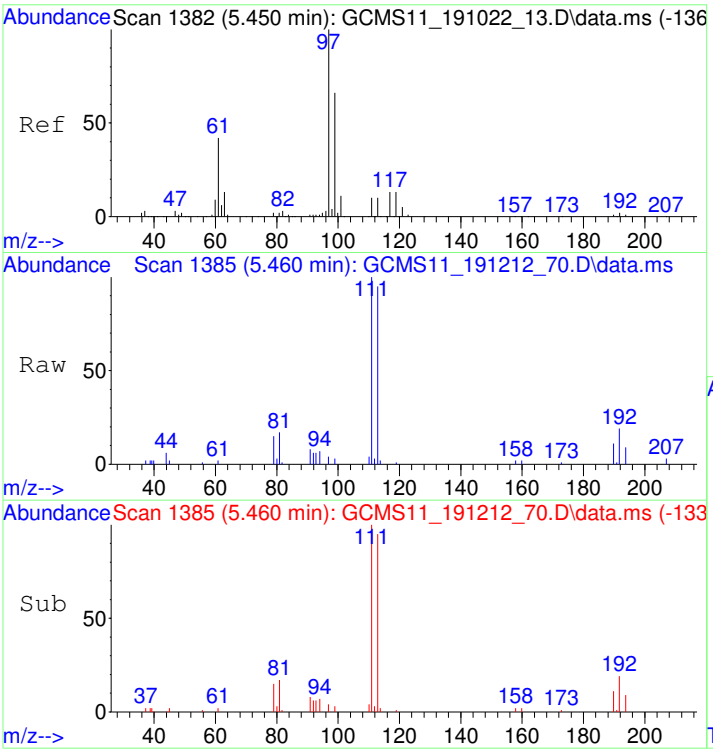


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.26 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191212_70.D
Acq: 13 Dec 2019 10:42 pm

Tgt Ion: 96 Resp: 60037

Ion	Ratio	Lower	Upper
96	100		
70	18.3	0.0	48.3
50	9.4	0.0	39.5

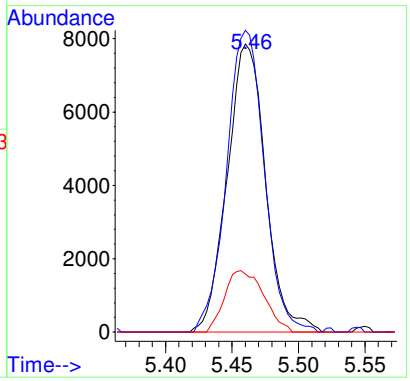


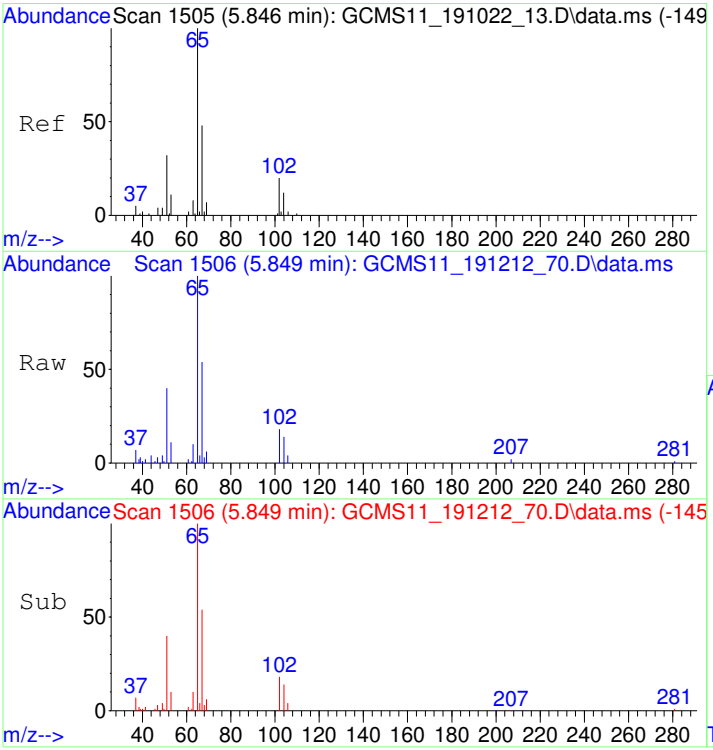


#22
DIBROMOFLUOROMETHANE
Concen: 50.22 ng
RT: 5.46 min Scan# 1385
Delta R.T. 0.000 min
Lab File: GCMS11_191212_70.D
Acq: 13 Dec 2019 10:42 pm

Tgt Ion:113 Resp: 15834

Ion	Ratio	Lower	Upper
113	100		
111	102.5	75.2	135.2
192	21.6	0.0	52.1

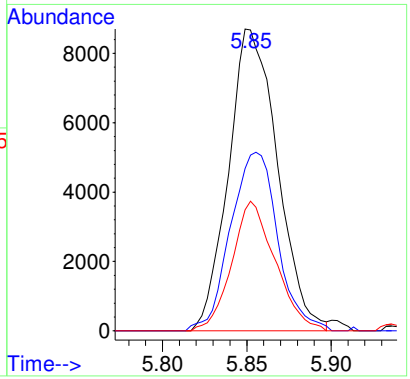


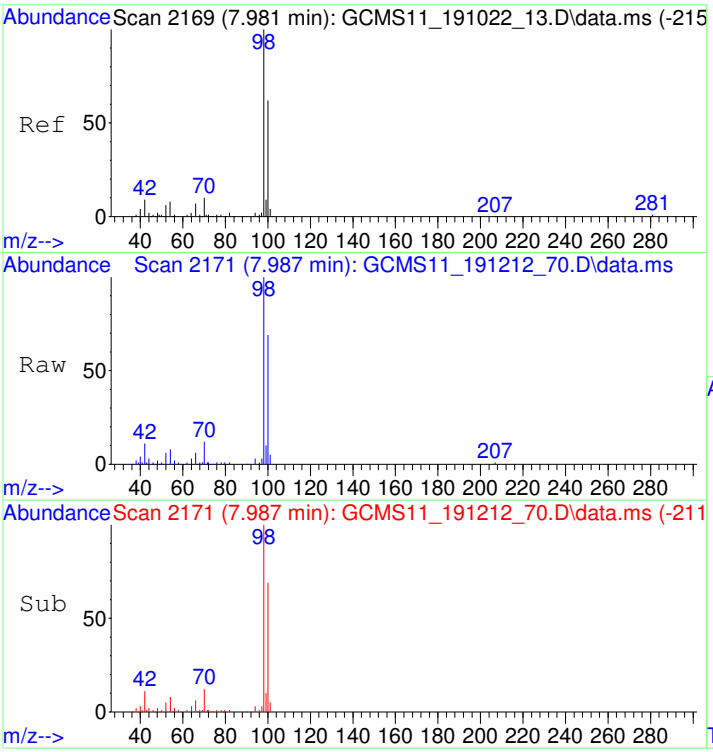


#26
1,2-DICHLOROETHANE-D4
Concen: 46.64 ng
RT: 5.85 min Scan# 1506
Delta R.T. -0.003 min
Lab File: GCMS11_191212_70.D
Acq: 13 Dec 2019 10:42 pm

Tgt Ion: 65 Resp: 17525

Ion	Ratio	Lower	Upper
65	100		
67	57.1	15.4	75.4
51	38.2	2.7	62.7

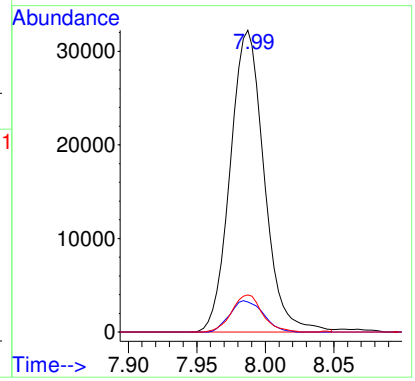


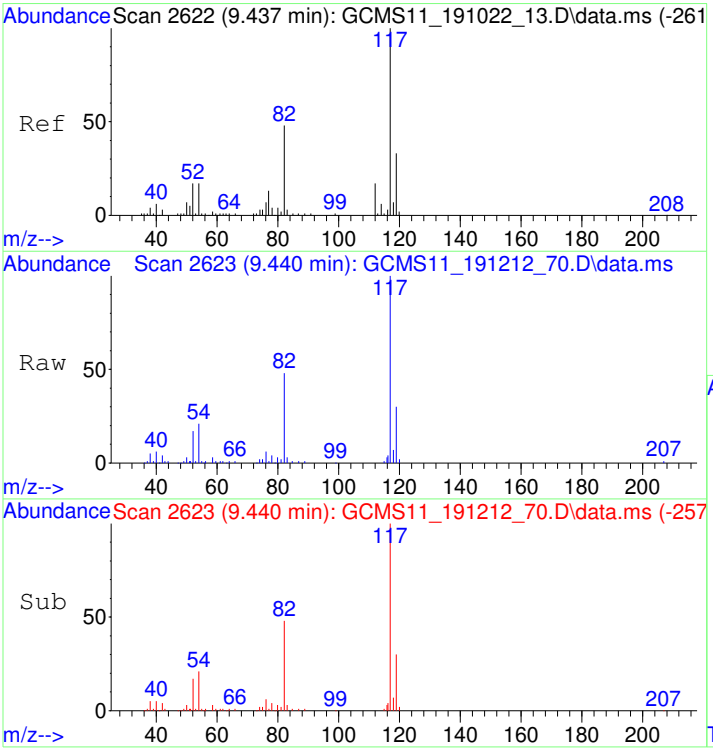


#37
TOLUENE-D8
Concen: 47.09 ng
RT: 7.99 min Scan# 2171
Delta R.T. 0.003 min
Lab File: GCMS11_191212_70.D
Acq: 13 Dec 2019 10:42 pm

Tgt Ion: 98 Resp: 55600

Ion	Ratio	Lower	Upper
98	100		
99	10.3	0.0	39.8
70	11.2	0.0	40.7

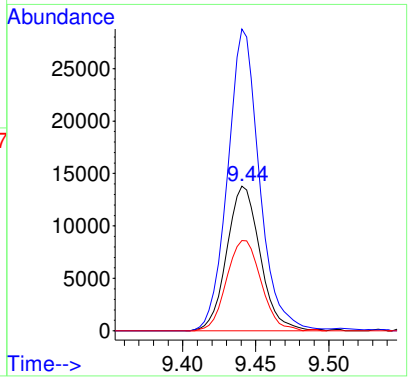


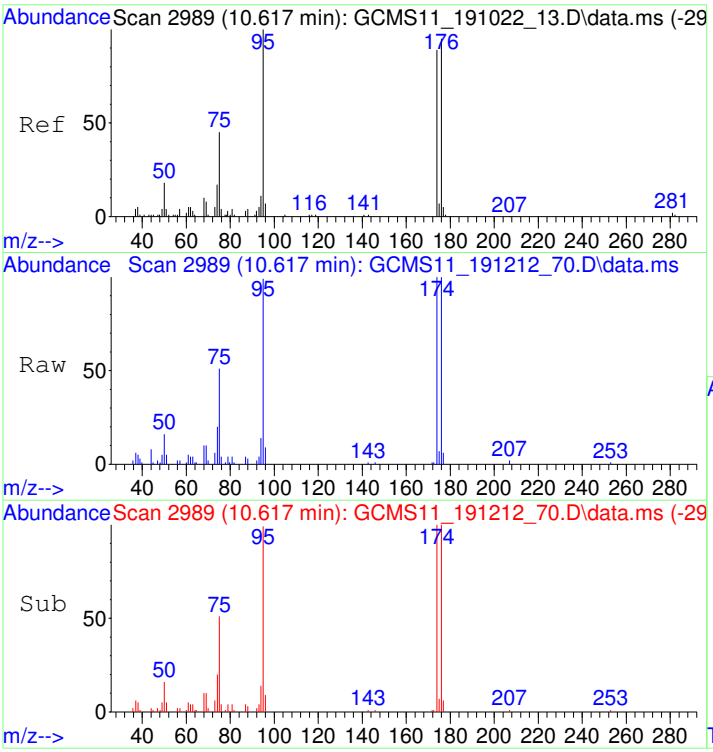


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191212_70.D
Acq: 13 Dec 2019 10:42 pm

Tgt Ion: 82 Resp: 21981

Ion	Ratio	Lower	Upper
82	100		
117	198.5	160.7	220.7
119	64.4	33.5	93.5

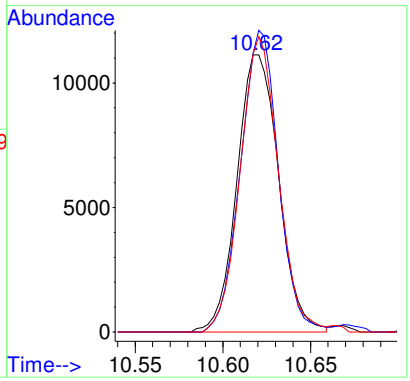


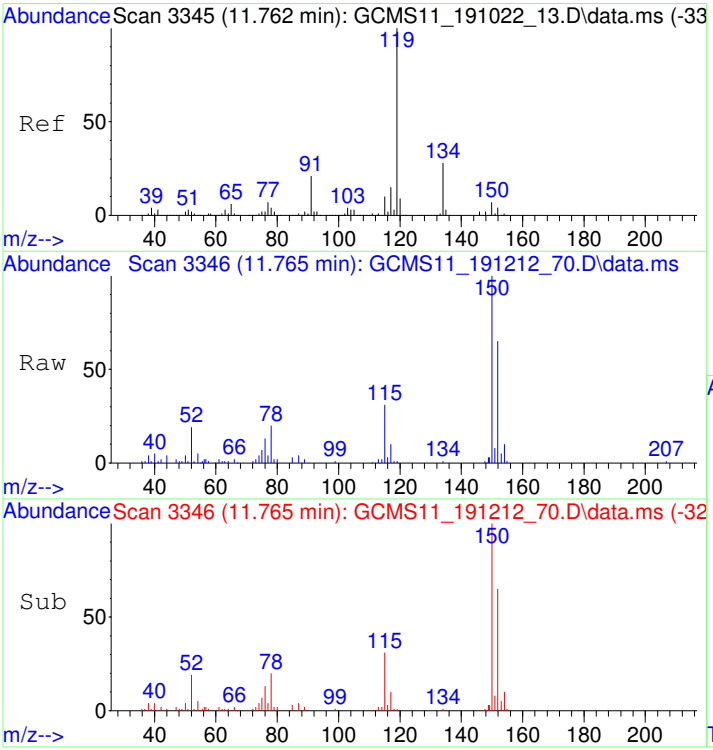


#55
4-BROMOFLUOROBENZENE
Concen: 46.21 ng
RT: 10.62 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191212_70.D
Acq: 13 Dec 2019 10:42 pm

Tgt Ion: 95 Resp: 18416

Ion	Ratio	Lower	Upper
95	100		
174	98.8	68.5	128.5
176	97.4	66.8	126.8

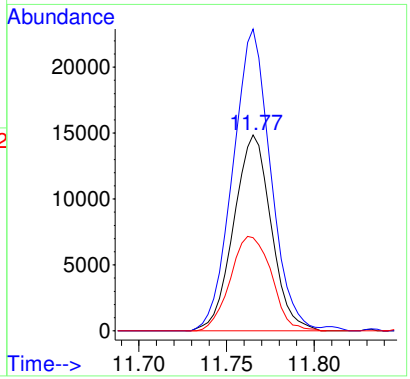




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_70.D
Acq: 13 Dec 2019 10:42 pm

Tgt Ion:152 Resp: 22095

Ion	Ratio	Lower	Upper
152	100		
150	155.3	162.5	222.5#
115	52.8	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_78.D
Acq On : 14 Dec 2019 2:28 am
Operator : ko
Sample : B19L019-BS1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Dec 16 14:10:48 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	60408	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	23528	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	25070	50.00	ng		0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.46	113	16248	51.21	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	17225	45.56	ng		0.00
37) TOLUENE-D8	7.98	98	59367	49.97	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	20529	48.12	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.12	85	34622	123.25	ng		100
3) Chloromethane	1.26	50	33251	129.57	ng		96
4) Vinyl chloride	1.35	62	44442	136.63	ng		98
5) Bromomethane	1.60	96	28783	106.04	ng		98
6) Chloroethane	1.70	64	29422	123.73	ng		95
7) Trichlorofluoromethane	1.92	101	54004	128.73	ng		99
9) 1,1-Dichloroethene	2.42	96	34641	110.33	ng		94
12) Methylene chloride	2.97	84	41146	108.38	ng		96
14) trans-1,2-Dichloroethene	3.32	96	38880	110.00	ng		97
16) 1,1-Dichloroethane	3.92	63	65757	112.66	ng		96
17) 2,2-Dichloropropane	4.78	77	37747	78.25	ng		98
18) cis-1,2-Dichloroethene	4.80	96	43660	114.45	ng		97
20) Bromochloromethane	5.11	128	23894	115.24	ng		95
21) Chloroform	5.26	83	67703	116.36	ng		99
23) 1,1,1-Trichloroethane	5.44	97	58126	109.81	ng		98
24) Carbon tetrachloride	5.65	117	50225	105.61	ng		98
25) 1,1-Dichloropropene	5.66	75	45899	106.35	ng		98
27) Benzene	5.91	78	164124	112.08	ng		99
28) 1,2-Dichloroethane	5.94	62	55506	112.79	ng		95
29) Trichloroethene	6.68	95	38865	112.47	ng		93
30) 1,2-Dichloropropane	6.92	63	36891	113.62	ng		97
31) Dibromomethane	7.04	93	31098	117.66	ng		97
33) Bromodichloromethane	7.24	83	52486	114.53	ng		98
35) cis-1,3-Dichloropropene	7.72	75	56140	110.55	ng		98
38) Toluene	8.05	92	89739	109.55	ng		97
40) trans-1,3-Dichloropropene	8.31	75	53009	103.34	ng		99
41) 1,1,2-Trichloroethane	8.48	83	34123	115.67	ng		97
42) Tetrachloroethene	8.60	164	30120	101.70	ng		98
43) 1,3-Dichloropropane	8.65	76	66693	116.72	ng		99
45) Dibromochloromethane	8.87	129	47587	108.68	ng		99
46) 1,2-Dibromoethane (EDB)	8.96	107	43996	117.63	ng		98
47) Chlorobenzene	9.47	112	107217	106.09	ng		98
48) 1,1,1,2-Tetrachloroethane	9.56	131	40747	104.69	ng		97
49) Ethylbenzene	9.59	106	55401	106.37	ng		99
50) m+p-Xylene	9.71	106	139280	211.37	ng		99
51) o-Xylene	10.10	106	67115	105.43	ng		97
52) Styrene	10.12	103	66739	110.84	ng		94
53) Bromoform	10.29	173	33640	106.11	ng	#	98
54) Isopropylbenzene	10.48	105	174553	103.87	ng		97
56) Bromobenzene	10.76	156	49159	111.41	ng		97
57) 1,2,3-Trichloropropane	10.81	75	45140	116.76	ng		99
58) n-Propylbenzene	10.89	91	194672	103.00	ng		99
59) 2-Chlorotoluene	10.96	91	117838	106.69	ng		99
60) 1,3,5-Trimethylbenzene	11.07	105	142289	103.95	ng		98
61) 4-Chlorotoluene	11.07	91	135015	104.78	ng		98
63) 1,1,2,2-Tetrachloroethane	10.78	83	56110	124.71	ng		98

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_78.D
Acq On : 14 Dec 2019 2:28 am
Operator : ko
Sample : B19L019-BS1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 61 Sample Multiplier: 1

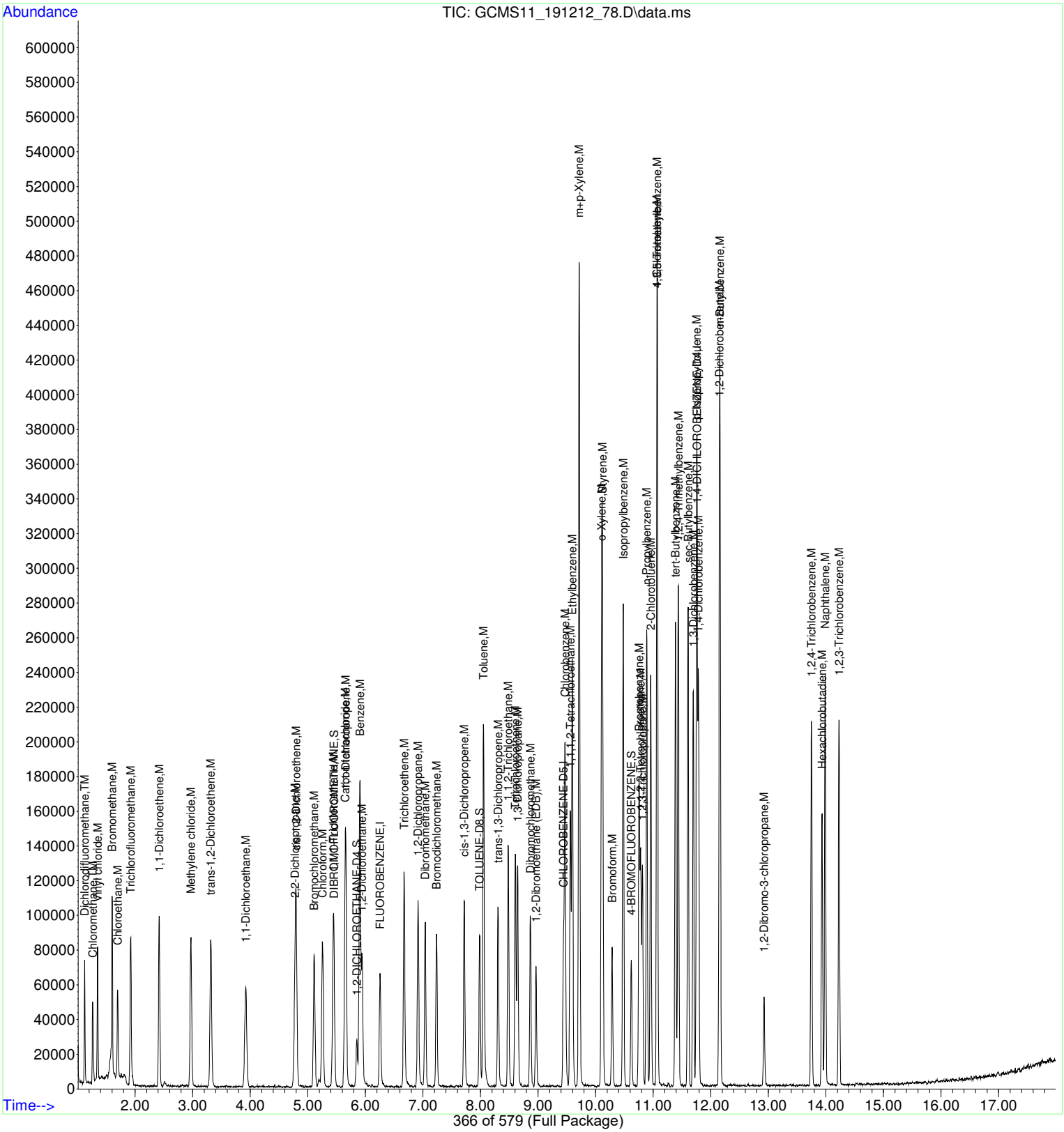
Quant Time: Dec 16 14:10:48 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
64) tert-Butylbenzene	11.39	119	127968	115.68	ng		97
65) 1,2,4-Trimethylbenzene	11.44	105	151472	111.96	ng		98
66) sec-Butylbenzene	11.61	105	177863	107.14	ng		100
67) 1,3-Dichlorobenzene	11.70	146	89936	116.18	ng		98
68) p-Isopropyltoluene	11.76	119	157646	108.45	ng		99
69) 1,4-Dichlorobenzene	11.79	146	92217	117.03	ng		99
70) 1,2-Dichlorobenzene	12.15	146	97451	116.43	ng		99
71) n-Butylbenzene	12.16	91	136388	105.53	ng		99
72) 1,2-Dibromo-3-chloropr...	12.93	155	10791	125.56	ng		88
73) 1,2,4-Trichlorobenzene	13.75	180	67993	120.45	ng		96
74) Hexachlorobutadiene	13.93	225	26438	100.51	ng	#	1
75) Naphthalene	13.99	128	179559	124.21	ng		99
76) 1,2,3-Trichlorobenzene	14.23	180	64856	111.53	ng		96

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_78.D
Acq On : 14 Dec 2019 2:28 am
Operator : ko
Sample : B19L019-BS1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Dec 16 14:10:48 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_78.D
Acq On : 14 Dec 2019 2:28 am
Operator : ko
Sample : B19L019-BS1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 61 Sample Multiplier: 1

Quant Time: Dec 16 14:10:48 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	84	0.00
2	TM	Dichlorodifluoromethane	125.000	123.252	1.4	76	0.00
3	TM	Chloromethane	125.000	129.573	-3.7	83	0.00
4	M	Vinyl chloride	125.000	136.627	-9.3	86	0.00
5	M	Bromomethane	125.000	106.037	15.2	70	0.00
6	M	Chloroethane	125.000	123.729	1.0	80	0.00
7	M	Trichlorofluoromethane	125.000	128.726	-3.0	83	0.00
8	M	Acrolein	625.000	0.000	100.0#	0	-2.32#
9	M	1,1-Dichloroethene	125.000	110.335	11.7	77	0.00
10	M	Acetone	625.000	0.000	100.0#	0	0.02
11	M	Carbon disulfide	125.000	0.000	100.0#	0	-2.62#
12	M	Methylene chloride	125.000	108.380	13.3	78	0.00
13	M	Acrylonitrile	625.000	0.000	100.0#	0	-3.29#
14	M	trans-1,2-Dichloroethene	125.000	110.002	12.0	78	0.00
15	M	Methyl tert-butyl ether	125.000	0.000	100.0#	0	-3.34#
16	M	1,1-Dichloroethane	125.000	112.660	9.9	77	0.00
17	M	2,2-Dichloropropane	125.000	78.252	37.4#	53	0.00
18	M	cis-1,2-Dichloroethene	125.000	114.451	8.4	77	0.00
19	M	2-Butanone	625.000	0.000	100.0#	0	-4.86#
20	M	Bromochloromethane	125.000	115.239	7.8	78	0.00
21	M	Chloroform	125.000	116.356	6.9	78	0.00
22	S	DIBROMOFLUOROMETHANE	50.000	51.213	-2.4	86	0.00
23	M	1,1,1-Trichloroethane	125.000	109.814	12.1	75	0.00
24	M	Carbon tetrachloride	125.000	105.609	15.5	73	0.00
25	M	1,1-Dichloropropene	125.000	106.354	14.9	74	0.00
26	S	1,2-DICHLOROETHANE-D4	50.000	45.556	8.9	75	0.00
27	M	Benzene	125.000	112.085	10.3	77	0.00
28	M	1,2-Dichloroethane	125.000	112.788	9.8	78	0.00
29	M	Trichloroethene	125.000	112.473	10.0	79	0.00
30	M	1,2-Dichloropropane	125.000	113.620	9.1	79	0.00
31	M	Dibromomethane	125.000	117.655	5.9	82	0.00
32	M	1,4-Dioxane	750.000	0.000	100.0#	0	-7.20#
33	M	Bromodichloromethane	125.000	114.532	8.4	78	0.00
34	M	2-Chloroethylvinyl ether	125.000	0.000	100.0#	0	-7.59#
35	M	cis-1,3-Dichloropropene	125.000	110.554	11.6	74	0.00
36	M	4-Methyl-2-pentanone	250.000	0.000	100.0#	0	-7.91#
37	S	TOLUENE-D8	50.000	49.970	0.1	85	0.00
38	M	Toluene	125.000	109.554	12.4	78	0.00
39	I	CHLOROBENZENE-D5	50.000	50.000	0.0	86	0.00
40	M	trans-1,3-Dichloropropene	125.000	103.335	17.3	73	0.00
41	M	1,1,2-Trichloroethane	125.000	115.673	7.5	84	0.00
42	M	Tetrachloroethene	125.000	101.696	18.6	70	0.00
43	M	1,3-Dichloropropane	125.000	116.723	6.6	84	0.00
44	M	2-Hexanone	250.000	0.000	100.0#	0	-8.76#
45	M	Dibromochloromethane	125.000	108.675	13.1	78	0.00
46	M	1,2-Dibromoethane (EDB)	125.000	117.631	5.9	84	0.00
47	M	Chlorobenzene	125.000	106.094	15.1	77	0.00

48	M	1,1,1,2-Tetrachloroethane	125.000	104.695	16.2	77	0.00
49	M	Ethylbenzene	125.000	106.371	14.9	77	0.00
50	M	m+p-Xylene	250.000	211.374	15.5	77	0.00
51	M	o-Xylene	125.000	105.434	15.7	79	0.00
52	M	Styrene	125.000	110.843	11.3	84	0.00
53	M	Bromoform	125.000	106.109	15.1	77	0.00
54	M	Isopropylbenzene	125.000	103.865	16.9	76	0.00
55	S	4-BROMOFLUOROBENZENE	50.000	48.123	3.8	85	0.00
56	M	Bromobenzene	125.000	111.408	10.9	79	0.00
57	M	1,2,3-Trichloropropane	125.000	116.762	6.6	82	0.00
58	M	n-Propylbenzene	125.000	102.999	17.6	74	0.00
59	M	2-Chlorotoluene	125.000	106.688	14.6	77	0.00
60	M	1,3,5-Trimethylbenzene	125.000	103.952	16.8	77	0.00
61	M	4-Chlorotoluene	125.000	104.781	16.2	77	0.00
62	I	1,4-DICHLOROBENZENE-D4	50.000	50.000	0.0	85	0.00
63	M	1,1,2,2-Tetrachloroethane	125.000	124.710	0.2	84	0.00
64	M	tert-Butylbenzene	125.000	115.676	7.5	75	0.00
65	M	1,2,4-Trimethylbenzene	125.000	111.958	10.4	78	0.00
66	M	sec-Butylbenzene	125.000	107.136	14.3	71	0.00
67	M	1,3-Dichlorobenzene	125.000	116.184	7.1	81	0.00
68	M	p-Isopropyltoluene	125.000	108.454	13.2	74	0.00
69	M	1,4-Dichlorobenzene	125.000	117.033	6.4	78	0.00
70	M	1,2-Dichlorobenzene	125.000	116.434	6.9	82	0.00
71	M	n-Butylbenzene	125.000	105.525	15.6	72	0.00
72	M	1,2-Dibromo-3-chloropropane	125.000	125.563	-0.5	89	0.00
73	M	1,2,4-Trichlorobenzene	125.000	120.448	3.6	82	0.00
74	M	Hexachlorobutadiene	125.000	100.513	19.6	64	0.00
75	M	Naphthalene	125.000	124.213	0.6	85	0.00
76	M	1,2,3-Trichlorobenzene	125.000	111.530	10.8	83	0.00

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

GCMS11_1912..._FULL LIST.M Mon Dec 16 14:11:43 2019

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_96.D
Acq On : 14 Dec 2019 11:10 am
Operator : ko
Sample : B19L019-BSD1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Dec 16 14:33:04 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	63028	50.00 ng		0.00
39) CHLOROBENZENE-D5	9.44	82	22962	50.00 ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	25347	50.00 ng		0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.45	113	15842	47.86 ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	18955	48.05 ng		0.00
37) TOLUENE-D8	7.98	98	59706	48.17 ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	21053	50.57 ng		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.12	85	37383	127.55 ng		97
3) Chloromethane	1.26	50	35487	132.54 ng		100
4) Vinyl chloride	1.34	62	45292	133.45 ng		99
5) Bromomethane	1.60	96	30716	108.45 ng		97
6) Chloroethane	1.69	64	31530	127.08 ng		97
7) Trichlorofluoromethane	1.92	101	58017	132.54 ng		96
9) 1,1-Dichloroethene	2.42	96	34670	105.84 ng		99
11) Carbon disulfide	2.62	76	267	232.66 ng	#	1
12) Methylene chloride	2.96	84	42236	106.63 ng		98
14) trans-1,2-Dichloroethene	3.31	96	40082	108.69 ng		93
16) 1,1-Dichloroethane	3.92	63	68838	113.04 ng		100
17) 2,2-Dichloropropane	4.78	77	23985	47.66 ng		94
18) cis-1,2-Dichloroethene	4.79	96	45786	115.03 ng		96
20) Bromochloromethane	5.11	128	24244	112.07 ng		97
21) Chloroform	5.25	83	68716	113.19 ng		96
23) 1,1,1-Trichloroethane	5.44	97	58217	105.41 ng		100
24) Carbon tetrachloride	5.65	117	51477	103.74 ng		99
25) 1,1-Dichloropropene	5.66	75	45534	101.12 ng		98
27) Benzene	5.90	78	165041	108.03 ng		93
28) 1,2-Dichloroethane	5.94	62	58365	113.67 ng		96
29) Trichloroethene	6.67	95	39386	109.24 ng		97
30) 1,2-Dichloropropane	6.91	63	37263	110.00 ng		99
31) Dibromomethane	7.04	93	31011	112.45 ng		97
33) Bromodichloromethane	7.23	83	53879	112.68 ng		99
35) cis-1,3-Dichloropropene	7.72	75	52675	99.42 ng		99
38) Toluene	8.05	92	91957	107.59 ng		98
40) trans-1,3-Dichloropropene	8.31	75	48974	97.82 ng		99
41) 1,1,2-Trichloroethane	8.48	83	34422	119.56 ng		97
42) Tetrachloroethene	8.60	164	30137	104.26 ng		97
43) 1,3-Dichloropropane	8.64	76	67242	120.58 ng		99
45) Dibromochloromethane	8.87	129	46899	109.74 ng		98
46) 1,2-Dibromoethane (EDB)	8.96	107	43007	117.82 ng		99
47) Chlorobenzene	9.47	112	109316	110.84 ng		99
48) 1,1,1,2-Tetrachloroethane	9.56	131	41590	109.49 ng		98
49) Ethylbenzene	9.59	106	53645	105.54 ng		93
50) m+p-Xylene	9.71	106	138293	215.05 ng		100
51) o-Xylene	10.10	106	67756	109.06 ng		94
52) Styrene	10.12	103	65170	110.91 ng		96
53) Bromoform	10.29	173	35242	113.90 ng	#	98
54) Isopropylbenzene	10.48	105	175251	106.85 ng		98
56) Bromobenzene	10.76	156	50975	118.37 ng		97
57) 1,2,3-Trichloropropane	10.81	75	46015	121.96 ng		97
58) n-Propylbenzene	10.89	91	196874	106.73 ng		100
59) 2-Chlorotoluene	10.96	91	118897	110.30 ng		99
60) 1,3,5-Trimethylbenzene	11.07	105	141869	106.20 ng		99
61) 4-Chlorotoluene	11.07	91	134644	107.07 ng		100

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_96.D
Acq On : 14 Dec 2019 11:10 am
Operator : ko
Sample : B19L019-BSD1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 66 Sample Multiplier: 1

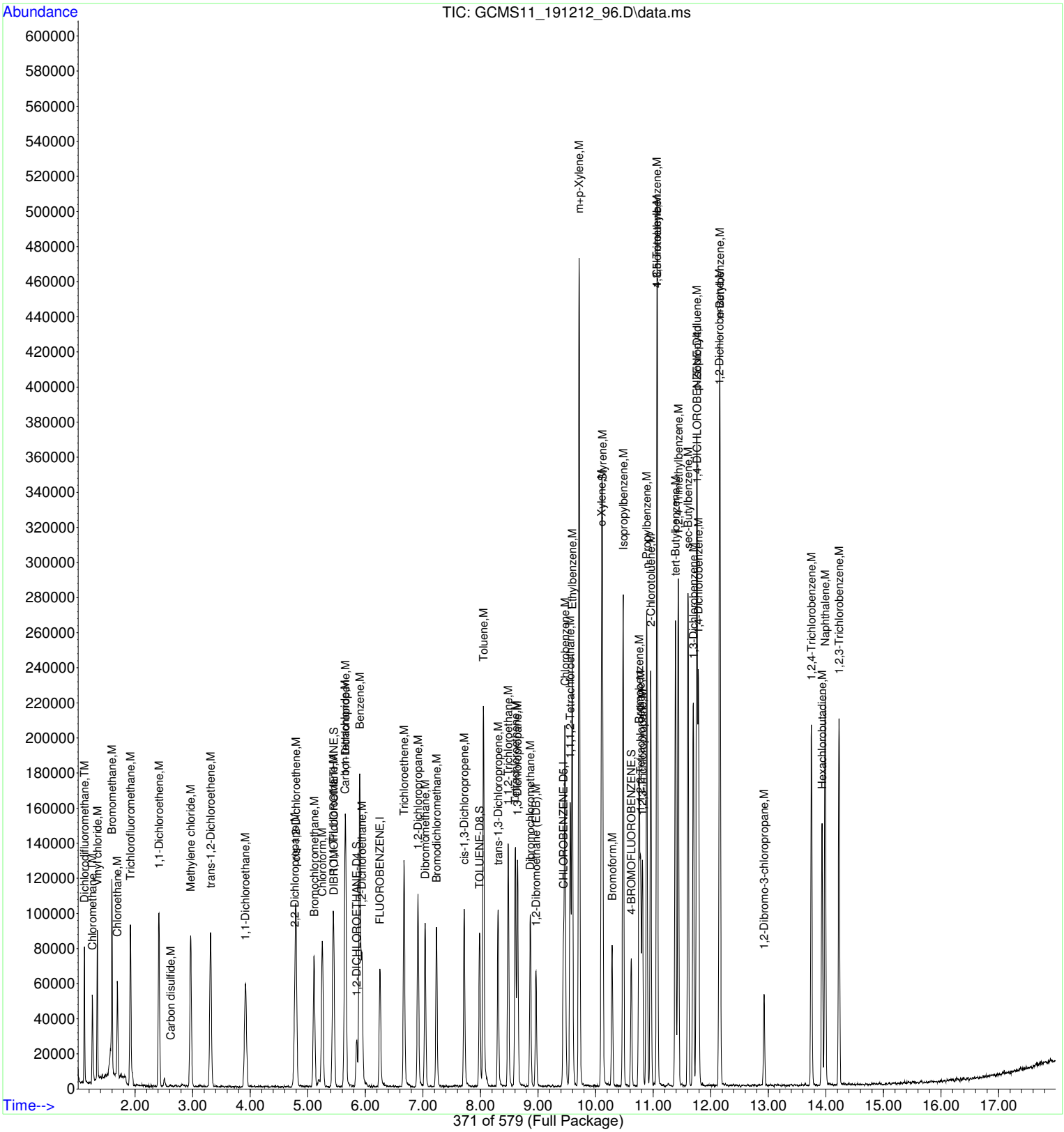
Quant Time: Dec 16 14:33:04 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
63) 1,1,2,2-Tetrachloroethane	10.78	83	53466	117.54	ng		98
64) tert-Butylbenzene	11.39	119	125037	111.79	ng		98
65) 1,2,4-Trimethylbenzene	11.44	105	151487	110.75	ng		98
66) sec-Butylbenzene	11.60	105	182758	108.88	ng		98
67) 1,3-Dichlorobenzene	11.70	146	88059	112.52	ng		99
68) p-Isopropyltoluene	11.76	119	154298	104.99	ng		100
69) 1,4-Dichlorobenzene	11.79	146	88753	111.41	ng		98
70) 1,2-Dichlorobenzene	12.15	146	97257	114.93	ng		99
71) n-Butylbenzene	12.16	91	132161	101.14	ng		99
72) 1,2-Dibromo-3-chloropr...	12.93	155	10797	124.26	ng		92
73) 1,2,4-Trichlorobenzene	13.75	180	63025	110.43	ng		97
74) Hexachlorobutadiene	13.94	225	25572	96.16	ng	#	1
75) Naphthalene	13.99	128	180141	123.25	ng		99
76) 1,2,3-Trichlorobenzene	14.23	180	63134	107.26	ng		99

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_96.D
Acq On : 14 Dec 2019 11:10 am
Operator : ko
Sample : B19L019-BSD1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Dec 16 14:33:04 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



371 of 579 (Full Package)

Evaluate Continuing Calibration Report

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_96.D
Acq On : 14 Dec 2019 11:10 am
Operator : ko
Sample : B19L019-BSD1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Dec 16 14:33:04 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

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	88	0.00
2	TM	Dichlorodifluoromethane	125.000	127.549	-2.0	82	0.00
3	TM	Chloromethane	125.000	132.538	-6.0	89	0.00
4	M	Vinyl chloride	125.000	133.452	-6.8	88	0.00
5	M	Bromomethane	125.000	108.454	13.2	75	0.00
6	M	Chloroethane	125.000	127.082	-1.7	86	0.00
7	M	Trichlorofluoromethane	125.000	132.543	-6.0	89	0.00
8	M	Acrolein	625.000	0.000	100.0#	0	-2.32#
9	M	1,1-Dichloroethene	125.000	105.837	15.3	77	0.00
10	M	Acetone	625.000	0.000	100.0#	0	0.02
11	M	Carbon disulfide	125.000	232.664	-86.1#	164	0.00
12	M	Methylene chloride	125.000	106.627	14.7	80	0.00
13	M	Acrylonitrile	625.000	0.000	100.0#	0	-3.29#
14	M	trans-1,2-Dichloroethene	125.000	108.689	13.0	80	0.00
15	M	Methyl tert-butyl ether	125.000	0.000	100.0#	0	-3.34#
16	M	1,1-Dichloroethane	125.000	113.036	9.6	80	0.00
17	M	2,2-Dichloropropane	125.000	47.656	61.9#	33	0.00
18	M	cis-1,2-Dichloroethene	125.000	115.034	8.0	81	0.00
19	M	2-Butanone	625.000	0.000	100.0#	0	-4.86#
20	M	Bromochloromethane	125.000	112.066	10.3	79	0.00
21	M	Chloroform	125.000	113.188	9.4	79	0.00
22	S	DIBROMOFLUOROMETHANE	50.000	47.858	4.3	84	0.00
23	M	1,1,1-Trichloroethane	125.000	105.414	15.7	75	0.00
24	M	Carbon tetrachloride	125.000	103.742	17.0	75	0.00
25	M	1,1-Dichloropropene	125.000	101.123	19.1	73	0.00
26	S	1,2-DICHLOROETHANE-D4	50.000	48.048	3.9	83	0.00
27	M	Benzene	125.000	108.026	13.6	78	0.00
28	M	1,2-Dichloroethane	125.000	113.668	9.1	82	0.00
29	M	Trichloroethene	125.000	109.242	12.6	80	0.00
30	M	1,2-Dichloropropane	125.000	109.995	12.0	80	0.00
31	M	Dibromomethane	125.000	112.449	10.0	82	0.00
32	M	1,4-Dioxane	750.000	0.000	100.0#	0	-7.20#
33	M	Bromodichloromethane	125.000	112.684	9.9	80	0.00
34	M	2-Chloroethylvinyl ether	125.000	0.000	100.0#	0	-7.59#
35	M	cis-1,3-Dichloropropene	125.000	99.418	20.5	69	0.00
36	M	4-Methyl-2-pentanone	250.000	0.000	100.0#	0	-7.91#
37	S	TOLUENE-D8	50.000	48.167	3.7	86	0.00
38	M	Toluene	125.000	107.595	13.9	80	0.00
39	I	CHLOROBENZENE-D5	50.000	50.000	0.0	84	0.00
40	M	trans-1,3-Dichloropropene	125.000	97.823	21.7	67	0.00
41	M	1,1,2-Trichloroethane	125.000	119.563	4.3	85	0.00
42	M	Tetrachloroethene	125.000	104.262	16.6	70	0.00
43	M	1,3-Dichloropropane	125.000	120.585	3.5	84	0.00
44	M	2-Hexanone	250.000	0.000	100.0#	0	-8.76#
45	M	Dibromochloromethane	125.000	109.744	12.2	77	0.00
46	M	1,2-Dibromoethane (EDB)	125.000	117.821	5.7	82	0.00
47	M	Chlorobenzene	125.000	110.837	11.3	79	0.00
48	M	1,1,1,2-Tetrachloroethane	125.000	109.495	12.4	79	0.00
49	M	Ethylbenzene	125.000	105.538	15.6	74	0.00
50	M	m+p-Xylene	250.000	215.050	14.0	77	0.00
51	M	o-Xylene	125.000	109.064	12.7	80	0.00
52	M	Styrene	125.000	110.905	11.3	82	0.00
53	M	Bromoform	125.000	113.902	8.9	81	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_96.D
Acq On : 14 Dec 2019 11:10 am
Operator : ko
Sample : B19L019-BSD1
Misc : LIMS 19L1101, 19L1201, 19L1202, 19L1203
ALS Vial : 66 Sample Multiplier: 1

Quant Time: Dec 16 14:33:04 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

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	106.851	14.5	76	0.00
55	S	4-BROMOFLUOROBENZENE	50.000	50.568	-1.1	87	0.00
56	M	Bromobenzene	125.000	118.372	5.3	82	0.00
57	M	1,2,3-Trichloropropane	125.000	121.959	2.4	84	0.00
58	M	n-Propylbenzene	125.000	106.732	14.6	75	0.00
59	M	2-Chlorotoluene	125.000	110.301	11.8	78	0.00
60	M	1,3,5-Trimethylbenzene	125.000	106.200	15.0	77	0.00
61	M	4-Chlorotoluene	125.000	107.069	14.3	76	0.00
62	I	1,4-DICHLOROBENZENE-D4	50.000	50.000	0.0	86	0.00
63	M	1,1,2,2-Tetrachloroethane	125.000	117.535	6.0	80	0.00
64	M	tert-Butylbenzene	125.000	111.791	10.6	73	0.00
65	M	1,2,4-Trimethylbenzene	125.000	110.746	11.4	78	0.00
66	M	sec-Butylbenzene	125.000	108.881	12.9	73	0.00
67	M	1,3-Dichlorobenzene	125.000	112.516	10.0	80	0.00
68	M	p-Isopropyltoluene	125.000	104.990	16.0	72	0.00
69	M	1,4-Dichlorobenzene	125.000	111.406	10.9	76	0.00
70	M	1,2-Dichlorobenzene	125.000	114.933	8.1	82	0.00
71	M	n-Butylbenzene	125.000	101.137	19.1	70	0.00
72	M	1,2-Dibromo-3-chloropropane	125.000	124.259	0.6	89	0.00
73	M	1,2,4-Trichlorobenzene	125.000	110.428	11.7	76	0.00
74	M	Hexachlorobutadiene	125.000	96.158	23.1	62	0.00
75	M	Naphthalene	125.000	123.253	1.4	85	0.00
76	M	1,2,3-Trichlorobenzene	125.000	107.257	14.2	81	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_79.D
Acq On : 14 Dec 2019 2:59 am
Operator : ko
Sample : 1912009-02RE1
Misc : LIMS 19L1101, 5X DILUTION
ALS Vial : 62 Sample Multiplier: 1

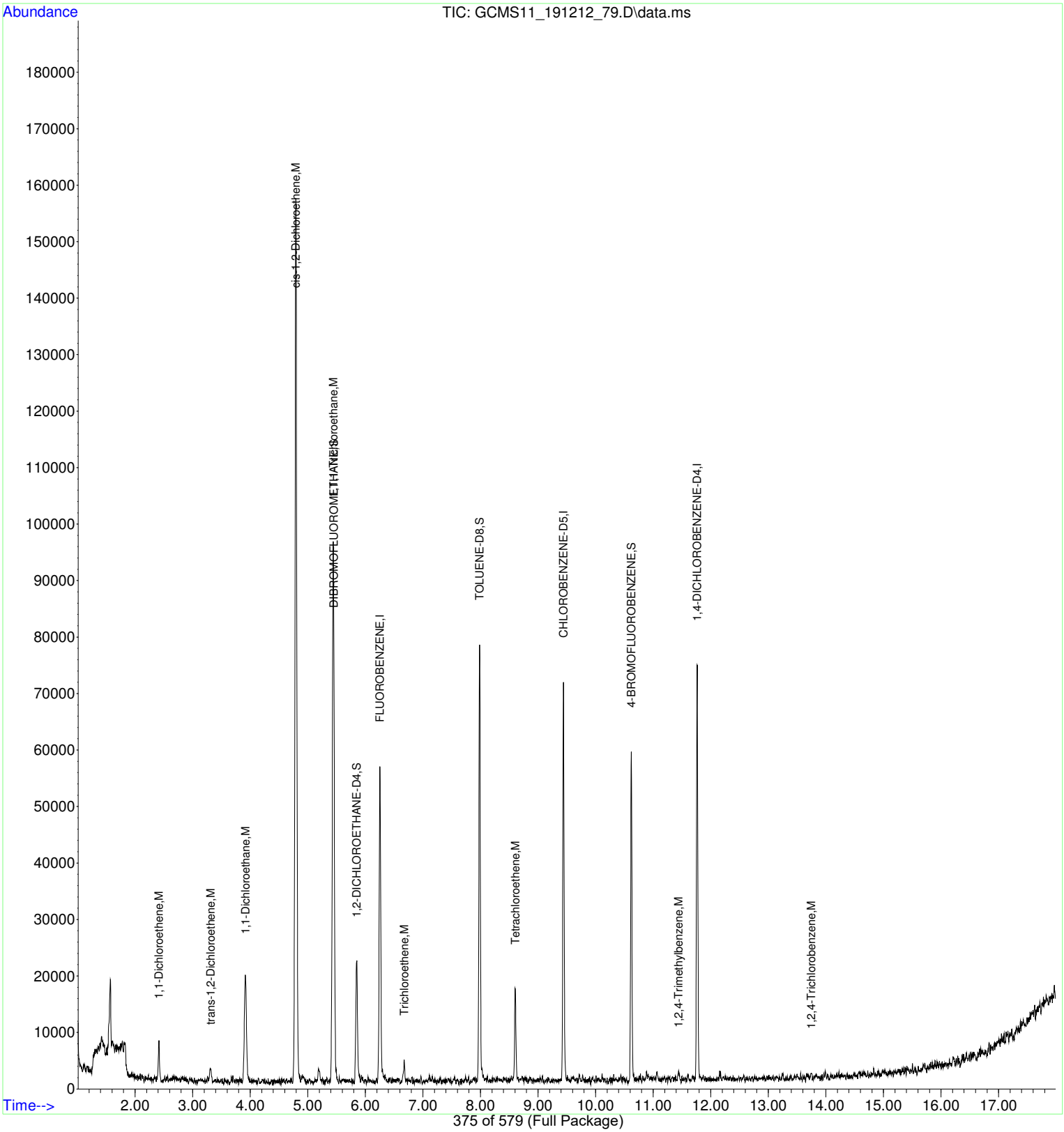
Quant Time: Dec 16 14:14:09 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

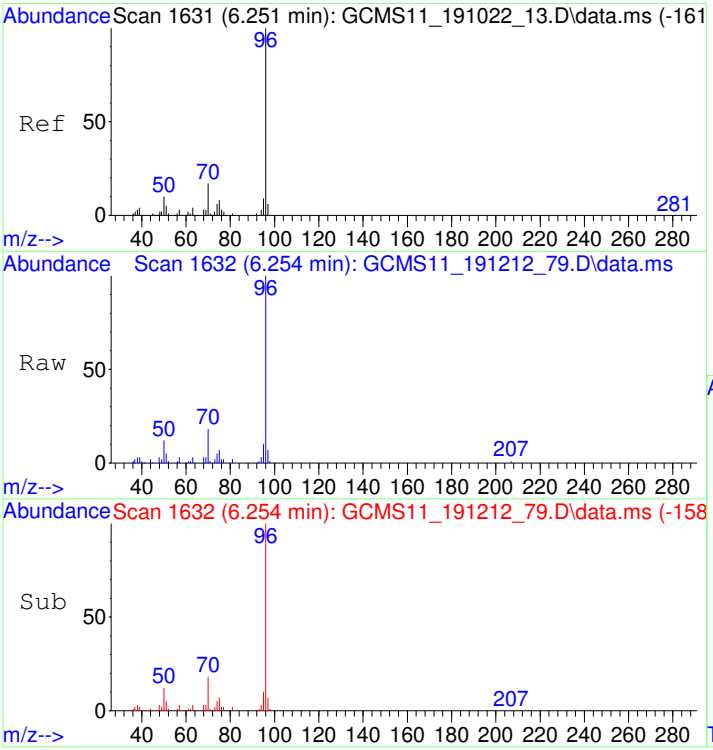
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.25	96	49981	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	19057	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	19008	50.00	ng	#	0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.45	113	13735	52.32	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	15693	50.16	ng		0.00
37) TOLUENE-D8	7.98	98	50962	51.84	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	17094	49.47	ng		0.00
Target Compounds							Qvalue
9) 1,1-Dichloroethene	2.41	96	2668	10.27	ng		85
14) trans-1,2-Dichloroethene	3.32	96	1102m	3.77	ng		
16) 1,1-Dichloroethane	3.92	63	22385	46.35	ng		99
18) cis-1,2-Dichloroethene	4.79	96	81322	257.65	ng		92
23) 1,1,1-Trichloroethane	5.44	97	56027	127.93	ng		97
29) Trichloroethene	6.68	95	1123	3.93	ng		96
42) Tetrachloroethene	8.60	164	3376	14.07	ng		92
65) 1,2,4-Trimethylbenzene	11.44	105	1057	1.03	ng		81
73) 1,2,4-Trichlorobenzene	13.74	180	454	1.06	ng	#	55

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_79.D
Acq On : 14 Dec 2019 2:59 am
Operator : ko
Sample : 1912009-02RE1
Misc : LIMS 19L1101, 5X DILUTION
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Dec 16 14:14:09 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

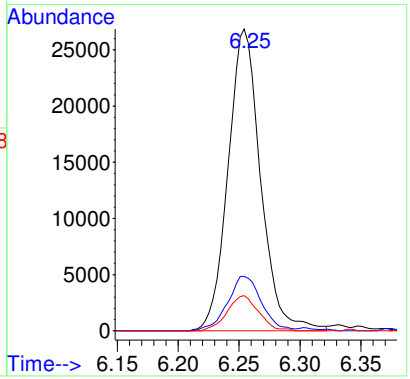


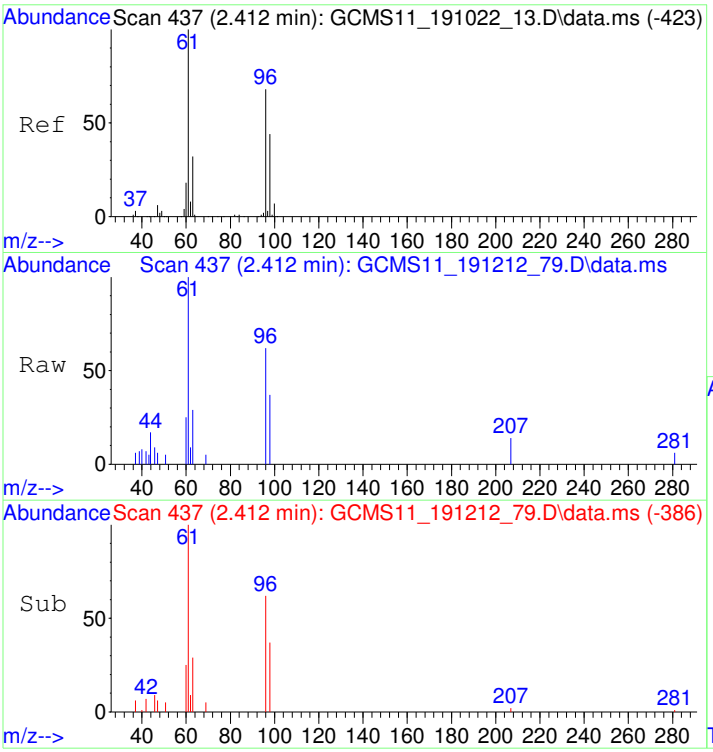


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191212_79.D
Acq: 14 Dec 2019 2:59 am

Tgt Ion: 96 Resp: 49981

Ion	Ratio	Lower	Upper
96	100		
70	18.8	0.0	48.3
50	11.2	0.0	39.5

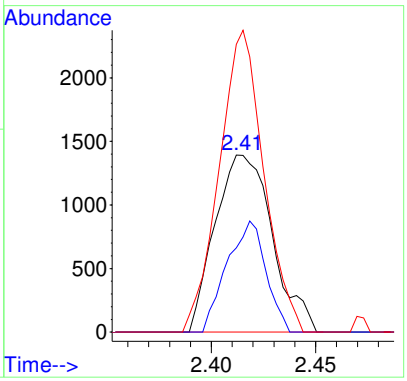


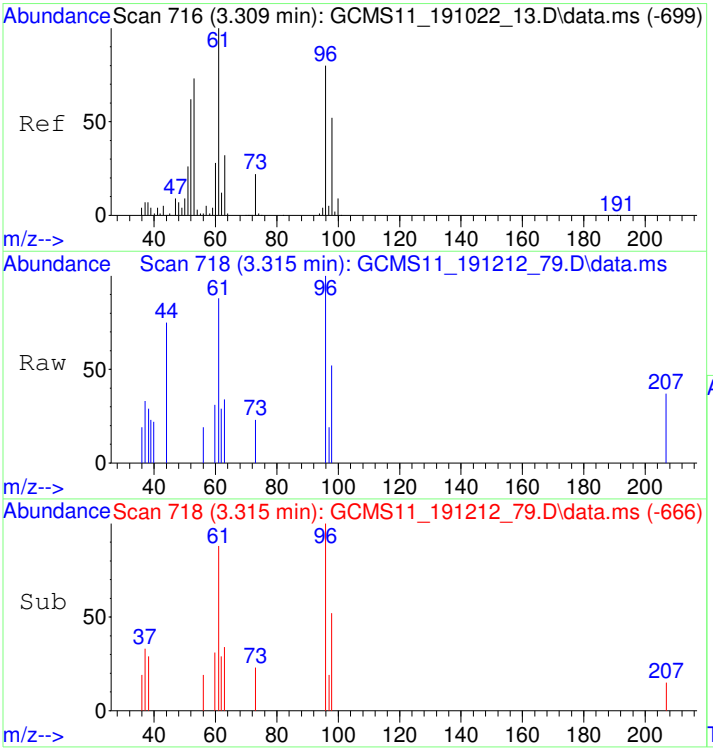


#9
1,1-Dichloroethene
Concen: 10.27 ng
RT: 2.41 min Scan# 437
Delta R.T. -0.006 min
Lab File: GCMS11_191212_79.D
Acq: 14 Dec 2019 2:59 am

Tgt Ion: 96 Resp: 2668

Ion	Ratio	Lower	Upper
96	100		
63	42.7	20.7	80.7
61	132.6	123.9	183.9

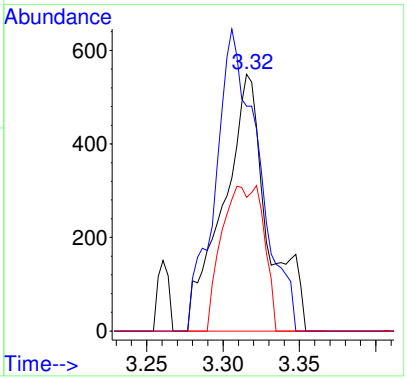


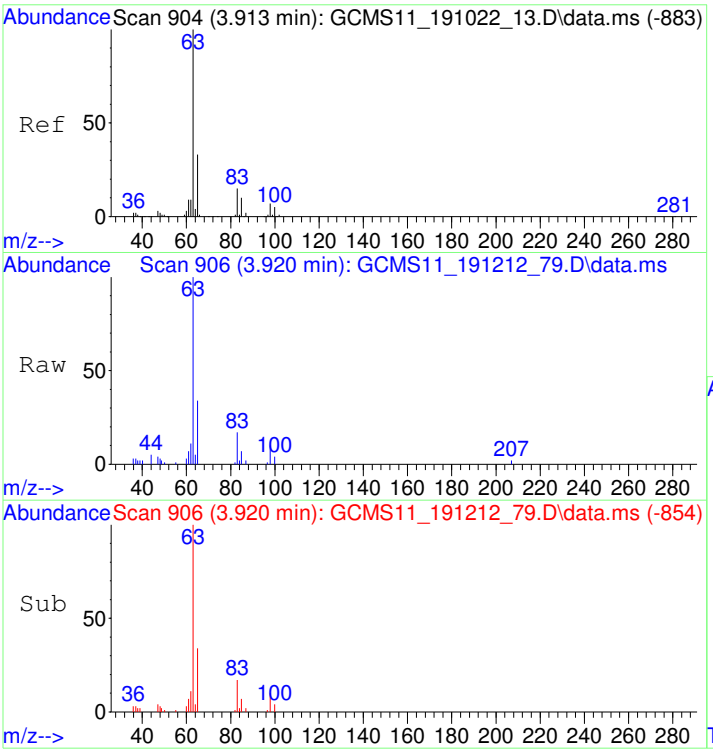


#14
trans-1,2-Dichloroethene
Concen: 3.77 ng m
RT: 3.32 min Scan# 718
Delta R.T. -0.003 min
Lab File: GCMS11_191212_79.D
Acq: 14 Dec 2019 2:59 am

Tgt Ion: 96 Resp: 1102

Ion	Ratio	Lower	Upper
96	100		
61	116.1	99.6	159.6
98	53.6	35.3	95.3

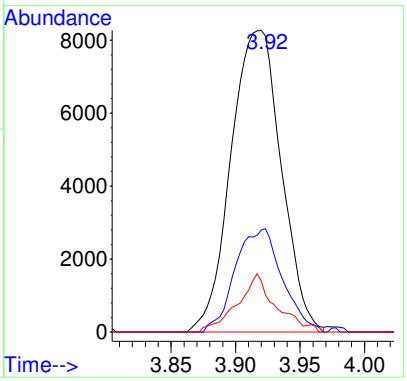


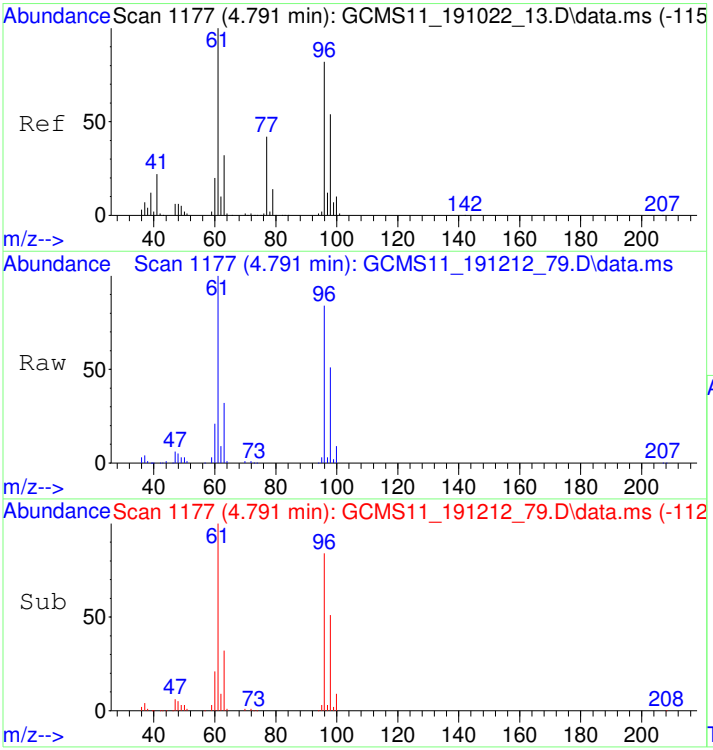


#16
1,1-Dichloroethane
Concen: 46.35 ng
RT: 3.92 min Scan# 906
Delta R.T. -0.003 min
Lab File: GCMS11_191212_79.D
Acq: 14 Dec 2019 2:59 am

Tgt Ion: 63 Resp: 22385

Ion	Ratio	Lower	Upper
63	100		
65	32.2	2.8	62.8
83	14.7	0.0	44.3

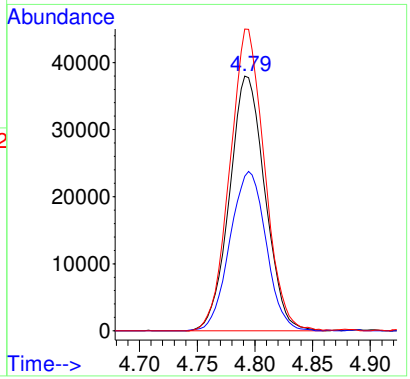


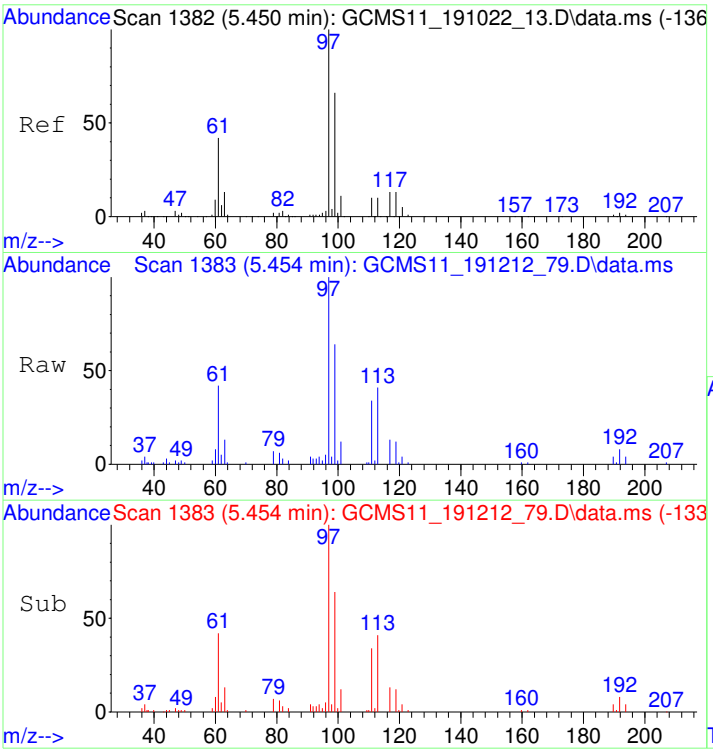


#18
cis-1,2-Dichloroethene
Concen: 257.65 ng
RT: 4.79 min Scan# 1177
Delta R.T. -0.009 min
Lab File: GCMS11_191212_79.D
Acq: 14 Dec 2019 2:59 am

Tgt Ion: 96 Resp: 81322

Ion	Ratio	Lower	Upper
96	100		
98	63.8	30.6	90.6
61	116.2	96.6	156.6

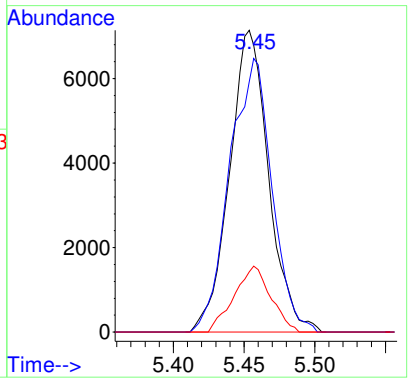


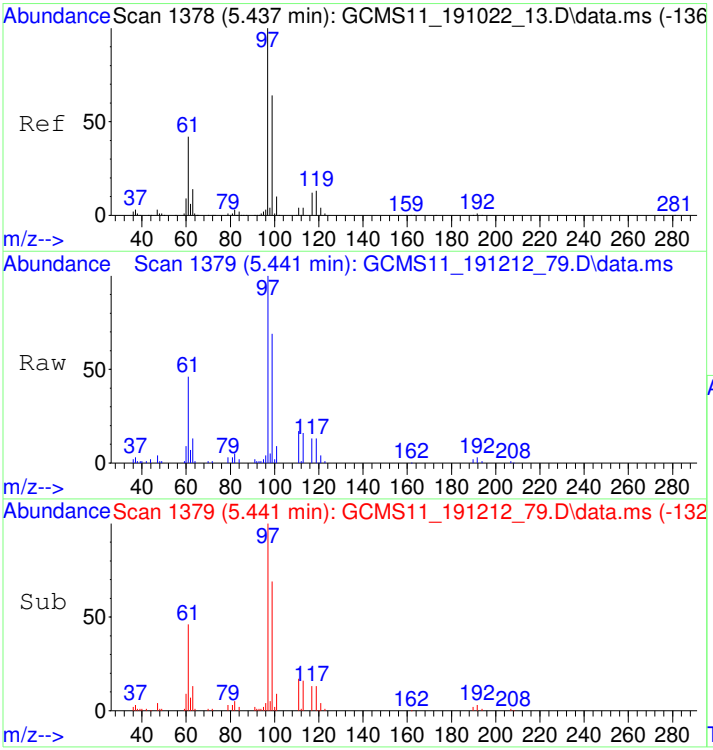


#22
DIBROMOFLUOROMETHANE
Concen: 52.32 ng
RT: 5.45 min Scan# 1383
Delta R.T. -0.006 min
Lab File: GCMS11_191212_79.D
Acq: 14 Dec 2019 2:59 am

Tgt Ion:113 Resp: 13735

Ion	Ratio	Lower	Upper
113	100		
111	97.8	75.2	135.2
192	20.5	0.0	52.1

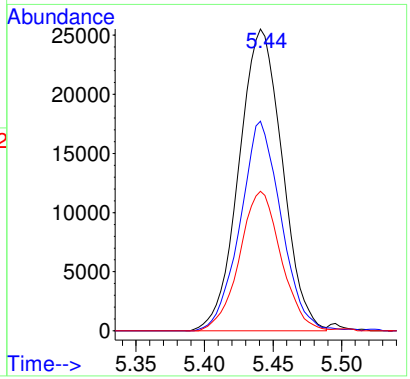


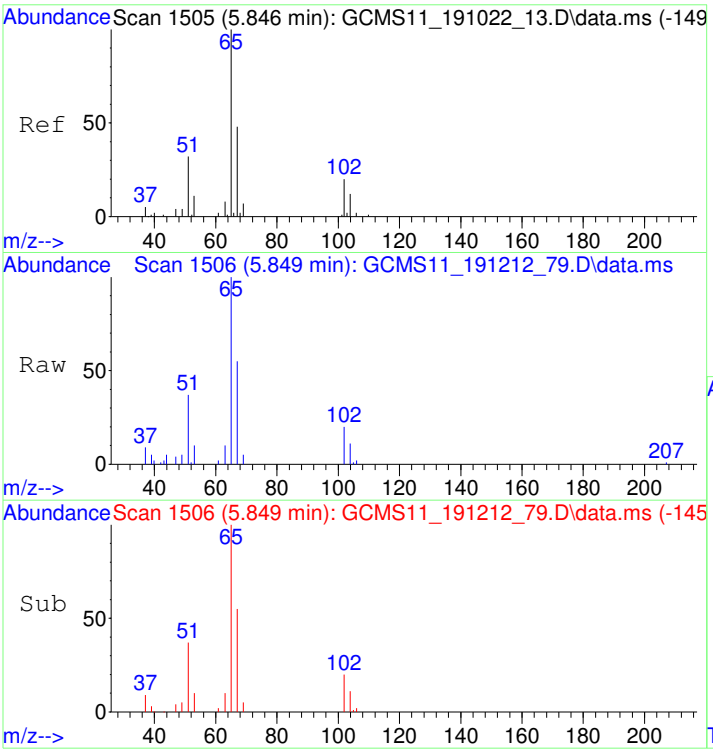


#23
1,1,1-Trichloroethane
Concen: 127.93 ng
RT: 5.44 min Scan# 1379
Delta R.T. -0.003 min
Lab File: GCMS11_191212_79.D
Acq: 14 Dec 2019 2:59 am

Tgt Ion: 97 Resp: 56027

Ion	Ratio	Lower	Upper
97	100		
99	65.7	32.7	92.7
61	44.5	13.1	73.1

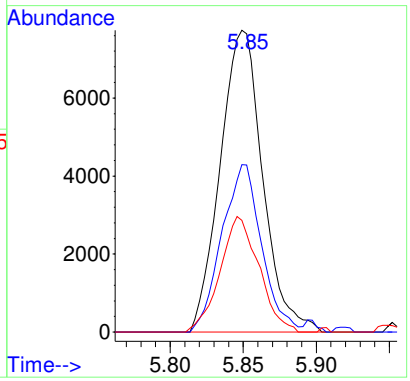


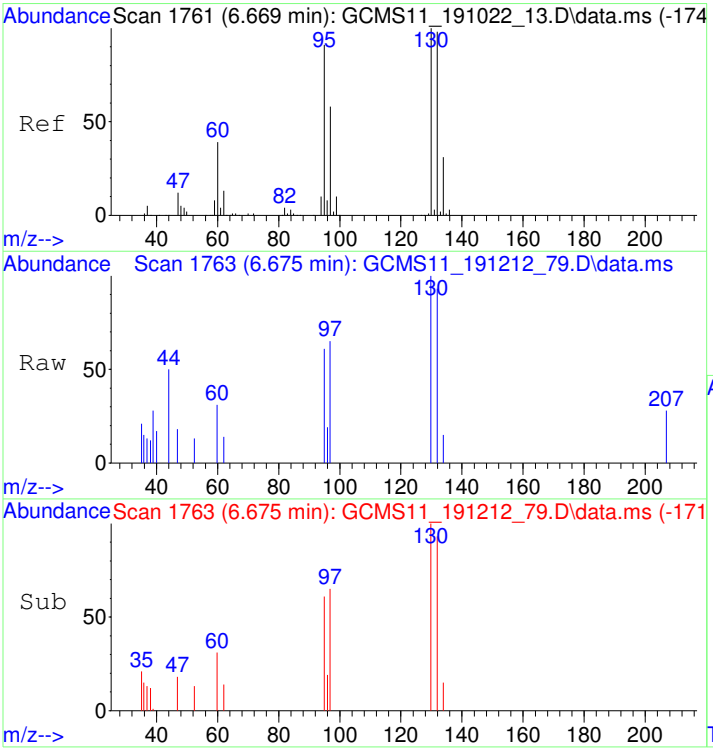


#26
1,2-DICHLOROETHANE-D4
Concen: 50.16 ng
RT: 5.85 min Scan# 1506
Delta R.T. -0.003 min
Lab File: GCMS11_191212_79.D
Acq: 14 Dec 2019 2:59 am

Tgt Ion: 65 Resp: 15693

Ion	Ratio	Lower	Upper
65	100		
67	51.8	15.4	75.4
51	35.0	2.7	62.7

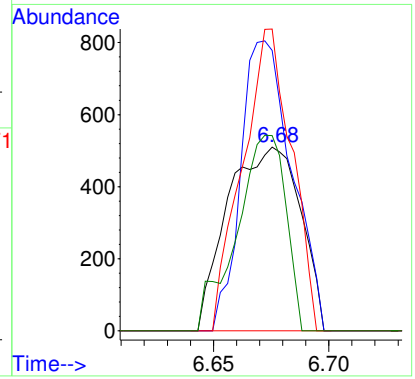


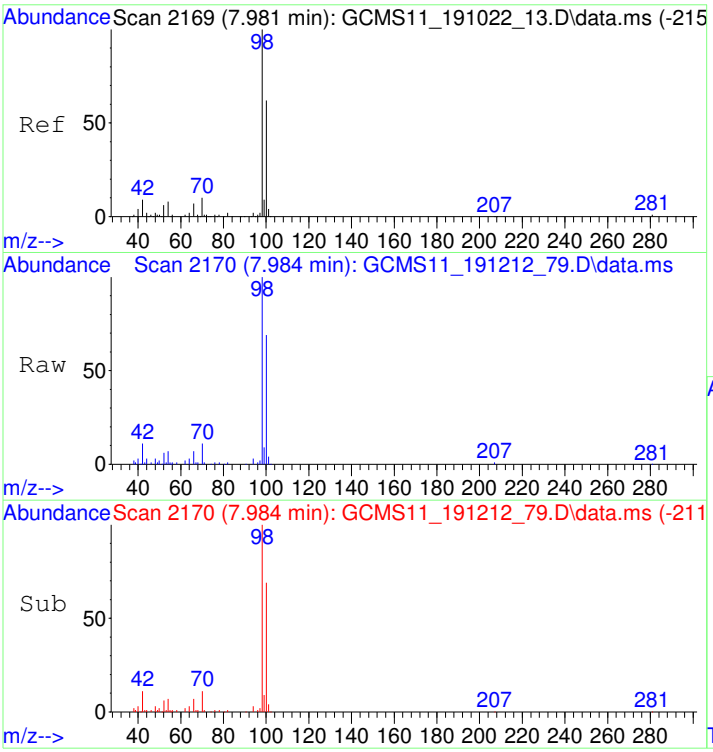


#29
Trichloroethene
Concen: 3.93 ng
RT: 6.68 min Scan# 1763
Delta R.T. 0.000 min
Lab File: GCMS11_191212_79.D
Acq: 14 Dec 2019 2:59 am

Tgt Ion: 95 Resp: 1123

Ion	Ratio	Lower	Upper
95	100		
132	110.4	78.7	138.7
130	110.0	86.1	146.1
97	71.7	37.2	97.2

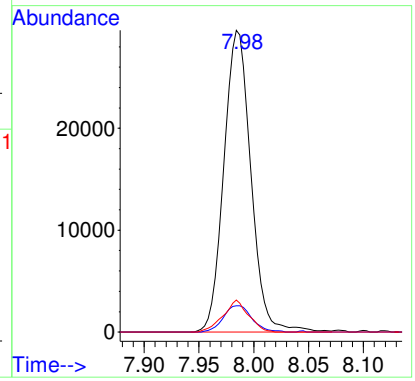


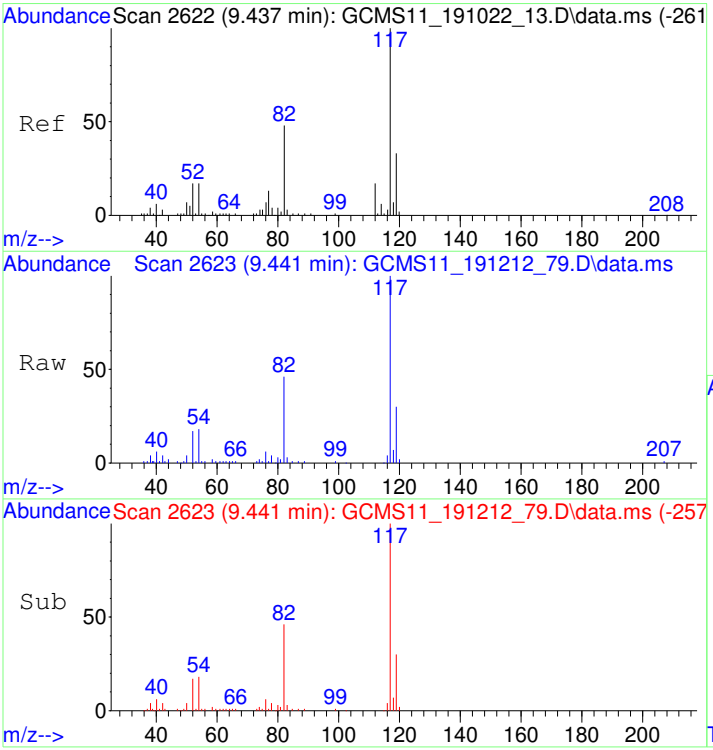


#37
TOLUENE-D8
Concen: 51.84 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191212_79.D
Acq: 14 Dec 2019 2:59 am

Tgt Ion: 98 Resp: 50962

Ion	Ratio	Lower	Upper
98	100		
99	9.3	0.0	39.8
70	9.9	0.0	40.7

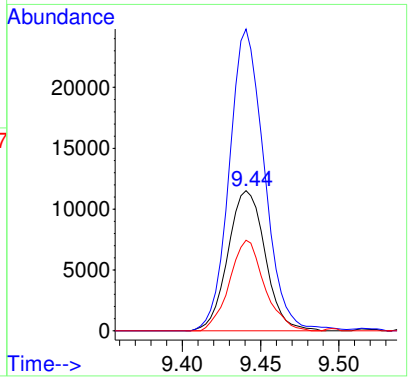


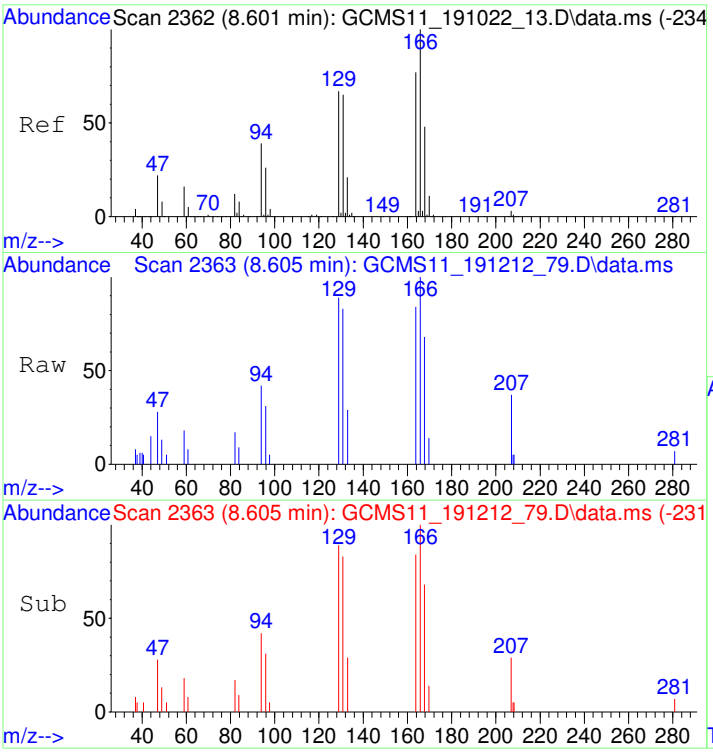


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.001 min
Lab File: GCMS11_191212_79.D
Acq: 14 Dec 2019 2:59 am

Tgt Ion: 82 Resp: 19057

Ion	Ratio	Lower	Upper
82	100		
117	202.6	160.7	220.7
119	60.7	33.5	93.5

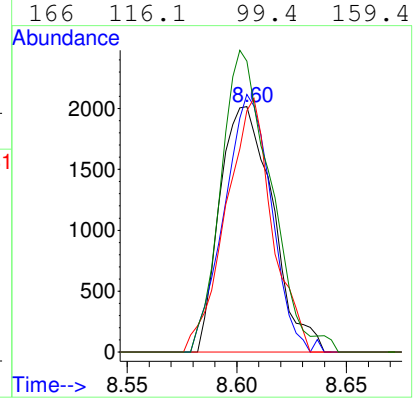


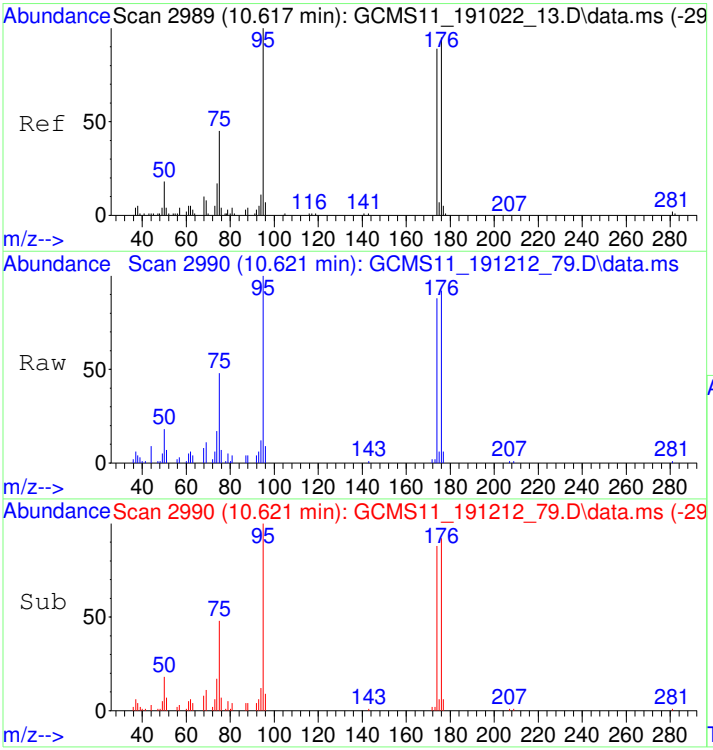


#42
Tetrachloroethene
Concen: 14.07 ng
RT: 8.60 min Scan# 2363
Delta R.T. 0.001 min
Lab File: GCMS11_191212_79.D
Acq: 14 Dec 2019 2:59 am

Tgt Ion:164 Resp: 3376

Ion	Ratio	Lower	Upper
164	100		
129	93.8	57.5	117.5
131	91.1	55.8	115.8
166	116.1	99.4	159.4

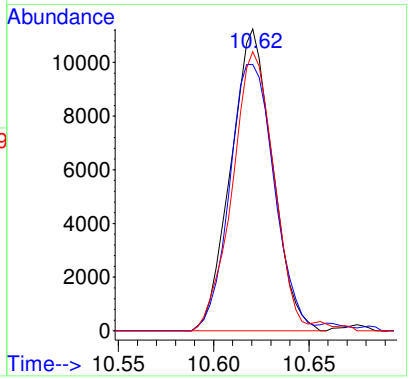


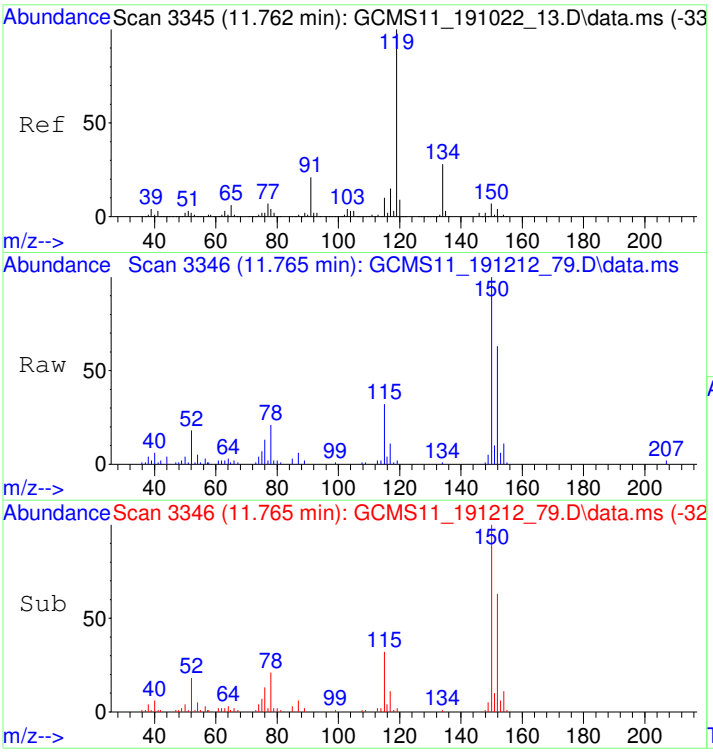


#55
4-BROMOFLUOROBENZENE
Concen: 49.47 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191212_79.D
Acq: 14 Dec 2019 2:59 am

Tgt Ion: 95 Resp: 17094

Ion	Ratio	Lower	Upper
95	100		
174	94.4	68.5	128.5
176	91.8	66.8	126.8

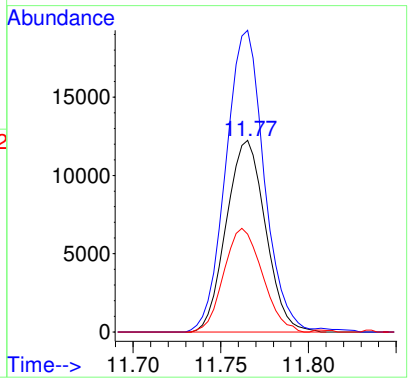


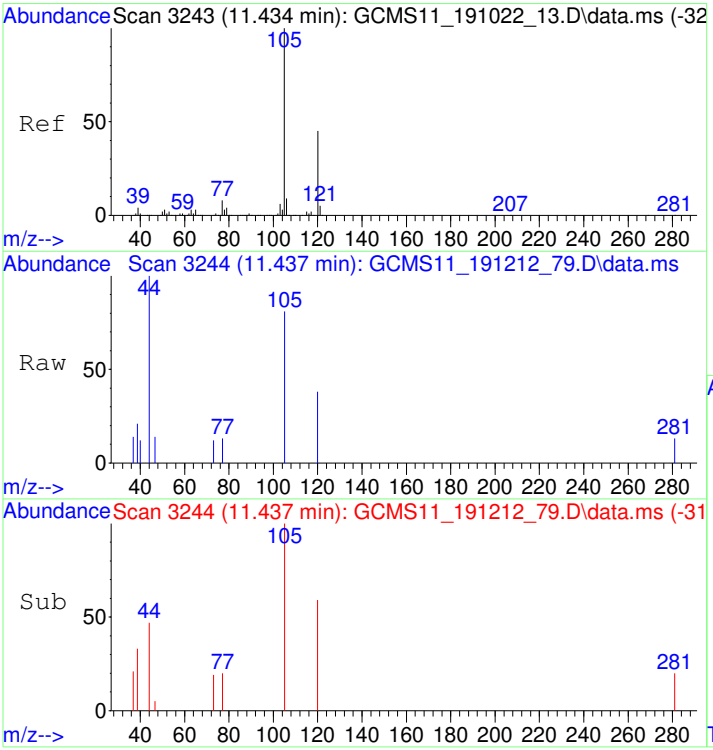


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_79.D
Acq: 14 Dec 2019 2:59 am

Tgt Ion:152 Resp: 19008

Ion	Ratio	Lower	Upper
152	100		
150	154.1	162.5	222.5#
115	53.3	82.3	142.3#

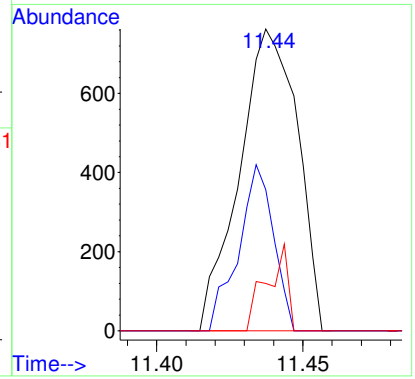


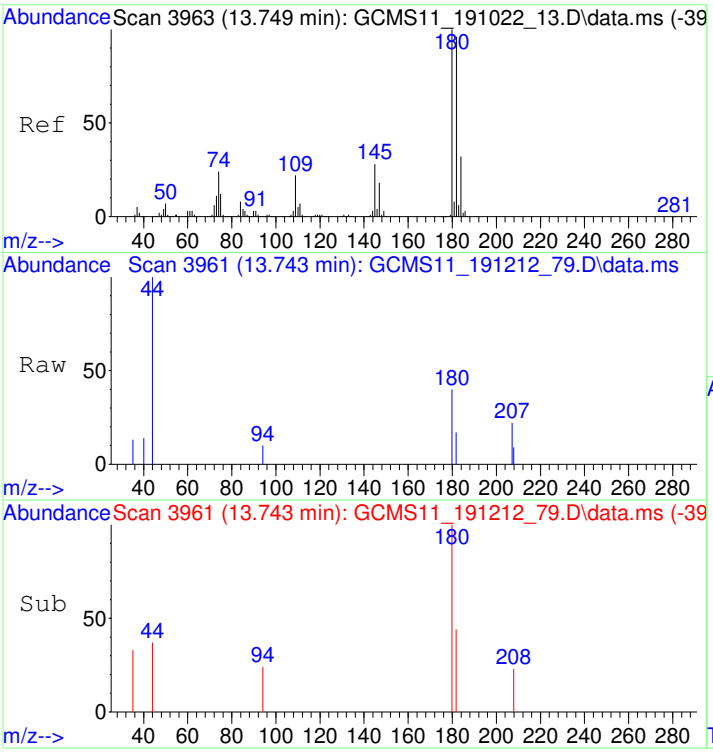


#65
1,2,4-Trimethylbenzene
Concen: 1.03 ng
RT: 11.44 min Scan# 3244
Delta R.T. 0.000 min
Lab File: GCMS11_191212_79.D
Acq: 14 Dec 2019 2:59 am

Tgt Ion:105 Resp: 1057

Ion	Ratio	Lower	Upper
105	100		
120	33.2	18.6	78.6
77	10.5	0.0	41.4

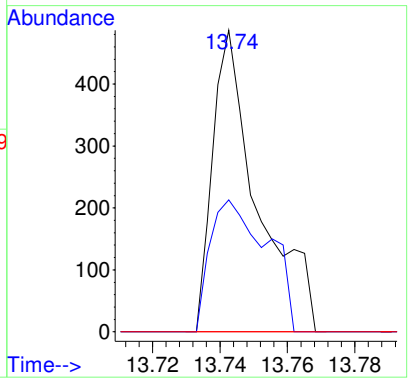




#73
1,2,4-Trichlorobenzene
Concen: 1.06 ng
RT: 13.74 min Scan# 3961
Delta R.T. -0.006 min
Lab File: GCMS11_191212_79.D
Acq: 14 Dec 2019 2:59 am

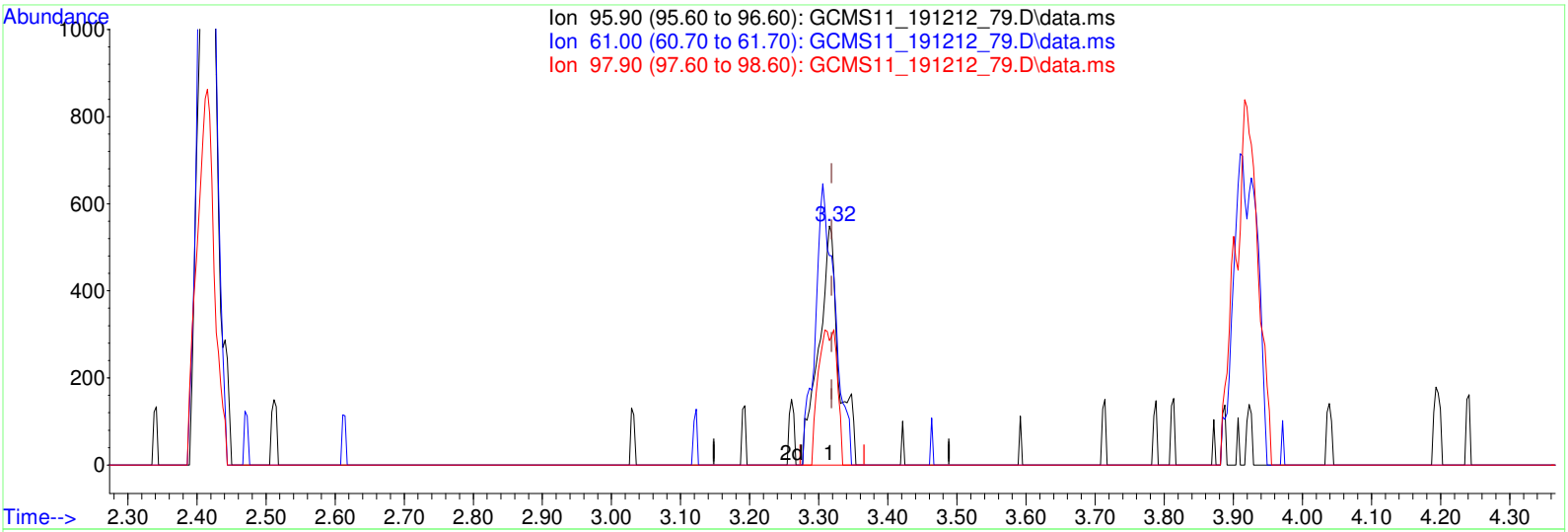
Tgt Ion:180 Resp: 454

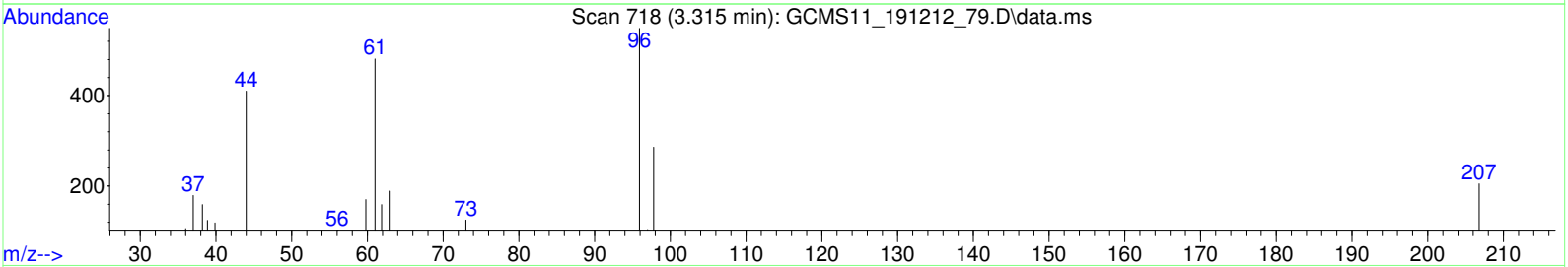
Ion	Ratio	Lower	Upper
180	100		
182	55.5	66.7	126.7#
145	0.0	0.0	58.2

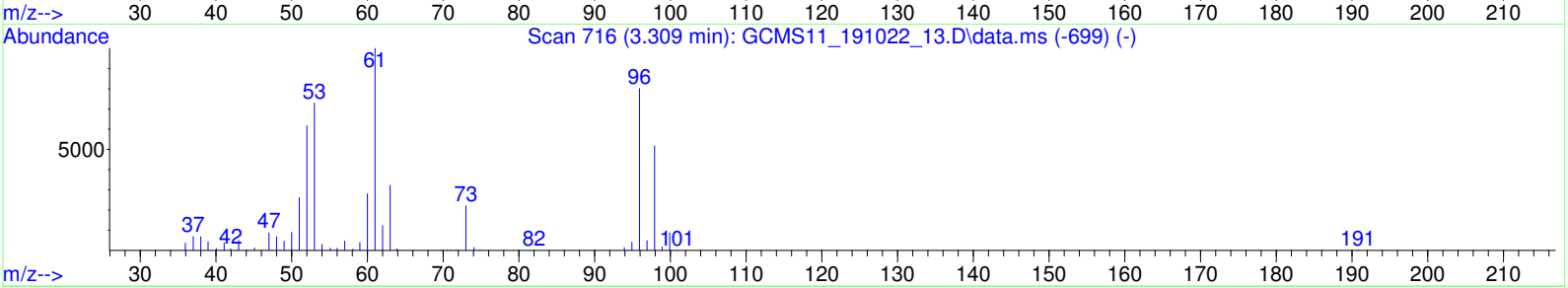


Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_79.D
Acq On : 14 Dec 2019 2:59 am
Operator : ko
Sample : 1912009-02RE1
Misc : LIMS 19L1101, 5X DILUTION
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Dec 16 12:09:19 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_191212_79.D\data.ms

(14) trans-1,2-Dichloroethene (M)

3.315min (-0.003) 3.77 ng m

response 1102

Ion	Exp%	Act%
95.90	100.00	100.00
61.00	129.60	116.06
97.90	65.30	53.63
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_86.D
Acq On : 14 Dec 2019 6:23 am
Operator : ko
Sample : 1912009-03RE1
Misc : LIMS 19L1101, 2X DILUTION
ALS Vial : 64 Sample Multiplier: 1

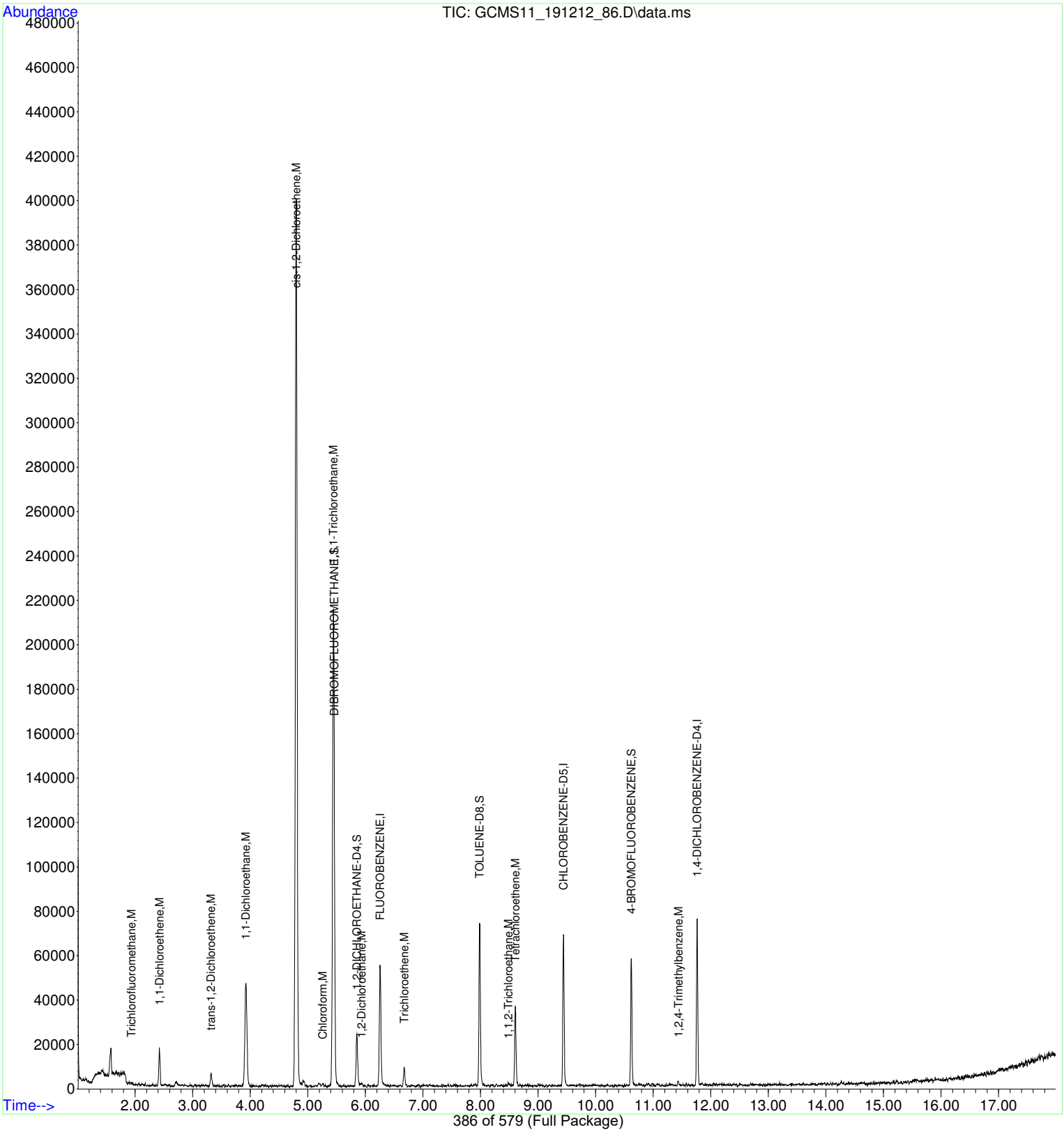
Quant Time: Dec 16 14:25:16 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

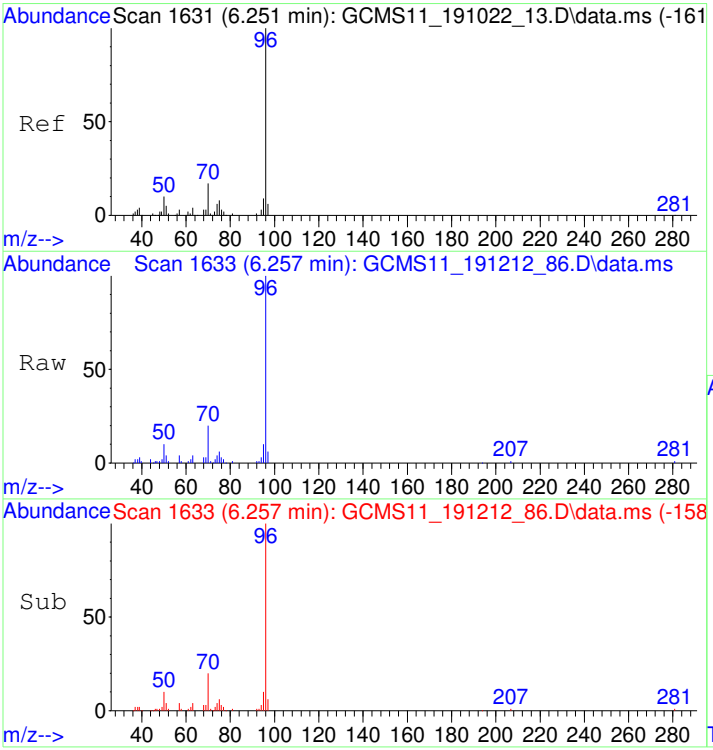
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.26	96	49746	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	19608	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	18441	50.00	ng		# 0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.46	113	13059	49.98	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	16138	51.83	ng		0.00
37) TOLUENE-D8	7.98	98	49593	50.69	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	16105	45.30	ng		0.00
Target Compounds							Qvalue
7) Trichlorofluoromethane	1.93	101	529	1.53	ng	#	52
9) 1,1-Dichloroethene	2.42	96	6221	24.06	ng		87
14) trans-1,2-Dichloroethene	3.32	96	2552	8.77	ng		94
16) 1,1-Dichloroethane	3.92	63	55637	115.75	ng		94
18) cis-1,2-Dichloroethene	4.80	96	214125	681.61	ng		92
21) Chloroform	5.26	83	917	1.91	ng		78
23) 1,1,1-Trichloroethane	5.45	97	141236	324.02	ng		97
28) 1,2-Dichloroethane	5.94	62	667	1.65	ng	#	88
29) Trichloroethene	6.68	95	2739	9.63	ng		93
41) 1,1,2-Trichloroethane	8.49	83	251	1.02	ng	#	72
42) Tetrachloroethene	8.60	164	7133	28.90	ng		87
65) 1,2,4-Trimethylbenzene	11.44	105	1342	1.35	ng		88

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_86.D
Acq On : 14 Dec 2019 6:23 am
Operator : ko
Sample : 1912009-03RE1
Misc : LIMS 19L1101, 2X DILUTION
ALS Vial : 64 Sample Multiplier: 1

Quant Time: Dec 16 14:25:16 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

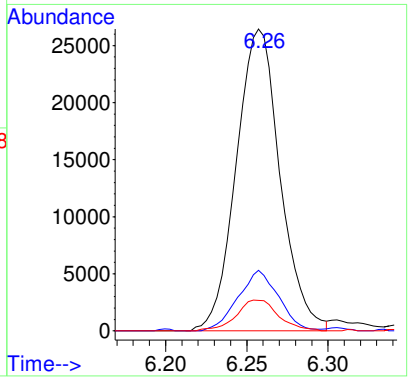


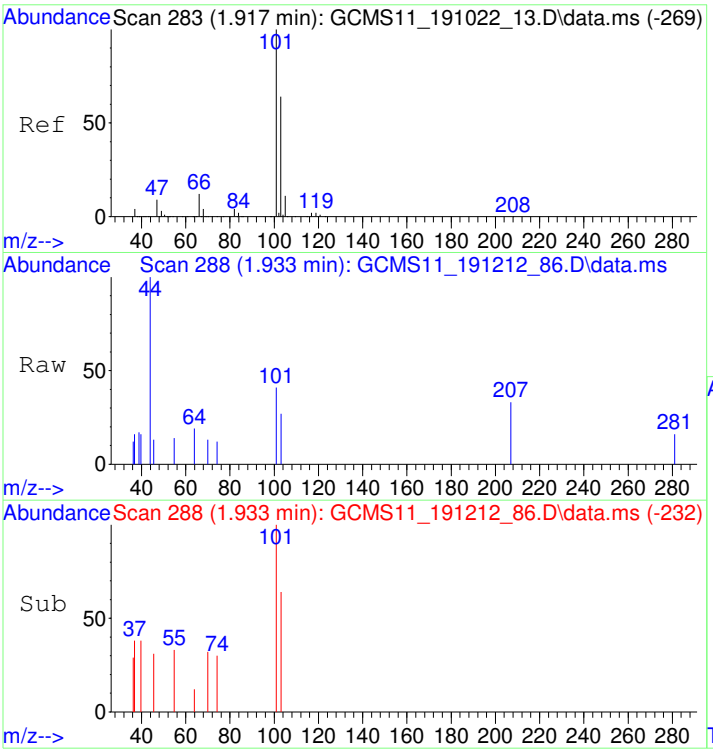


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.26 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion: 96 Resp: 49746

Ion	Ratio	Lower	Upper
96	100		
70	18.5	0.0	48.3
50	9.8	0.0	39.5

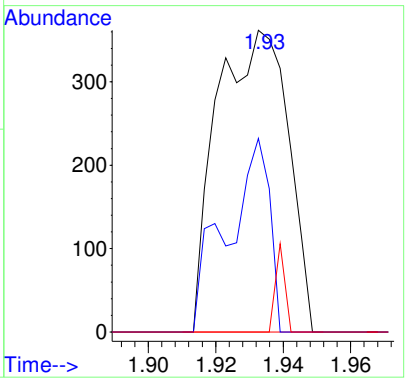


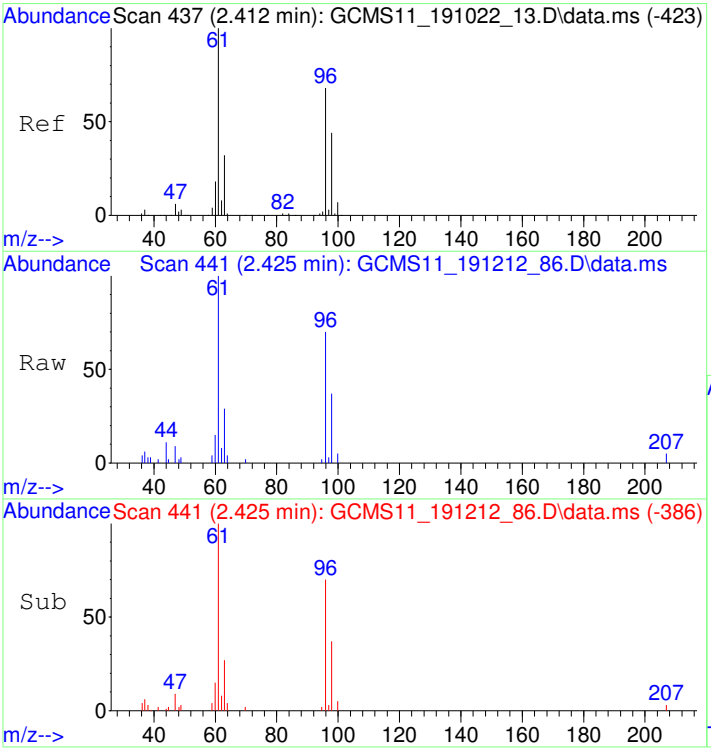


#7
Trichlorofluoromethane
Concen: 1.53 ng
RT: 1.93 min Scan# 288
Delta R.T. 0.010 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion:101 Resp: 529

Ion	Ratio	Lower	Upper
101	100		
103	25.5	38.4	98.4#
66	3.8	0.0	43.0

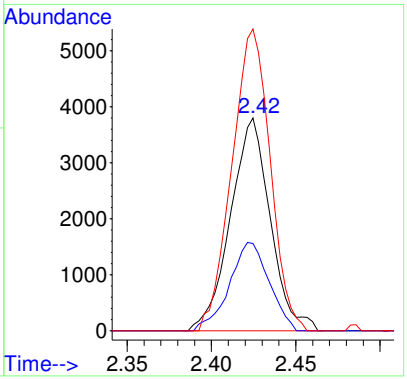


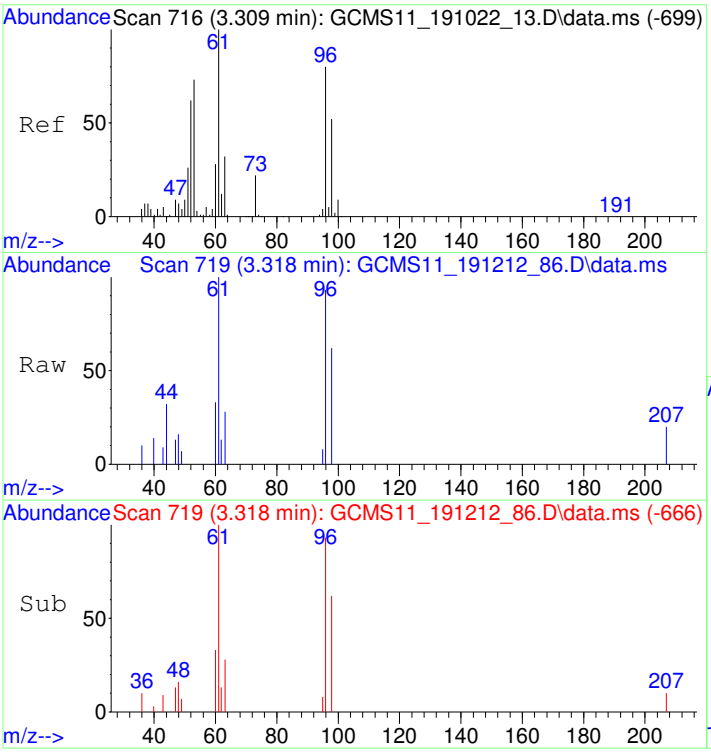


#9
1,1-Dichloroethene
Concen: 24.06 ng
RT: 2.42 min Scan# 441
Delta R.T. 0.006 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion: 96 Resp: 6221

Ion	Ratio	Lower	Upper
96	100		
63	41.4	20.7	80.7
61	136.7	123.9	183.9

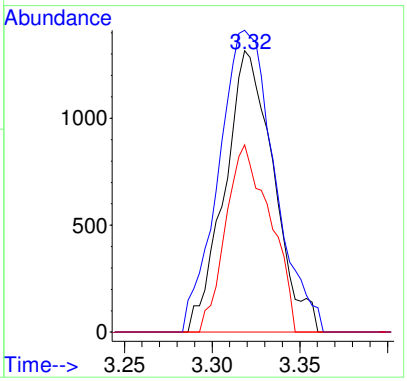


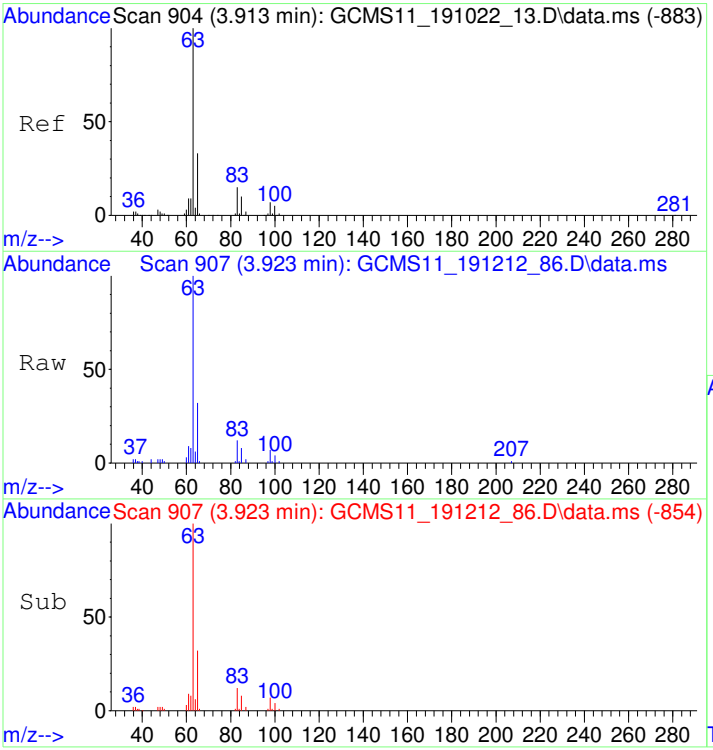


#14
trans-1,2-Dichloroethene
Concen: 8.77 ng
RT: 3.32 min Scan# 719
Delta R.T. -0.000 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion: 96 Resp: 2552

Ion	Ratio	Lower	Upper
96	100		
61	122.8	99.6	159.6
98	60.4	35.3	95.3

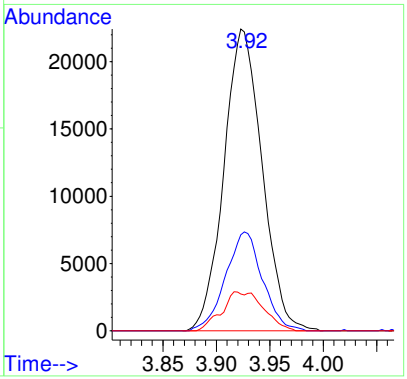


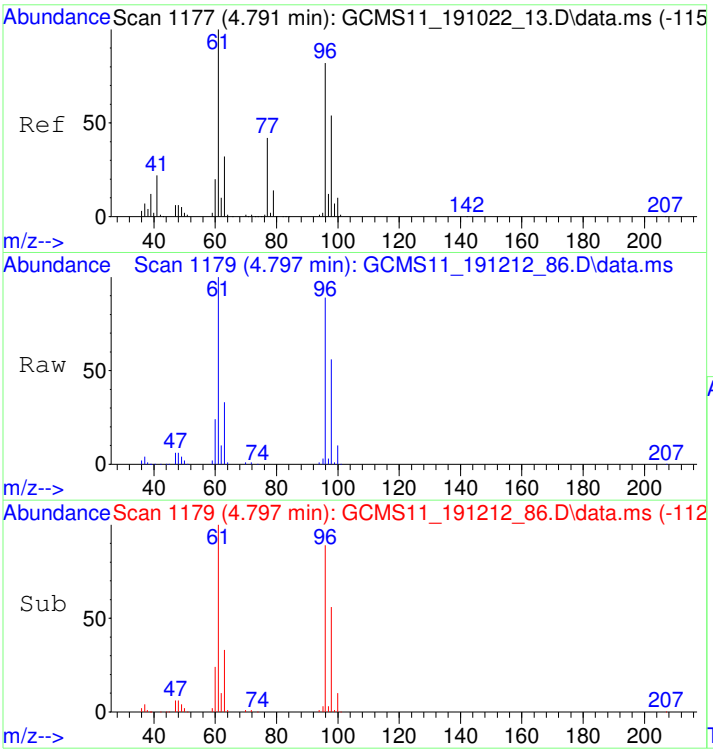


#16
1,1-Dichloroethane
Concen: 115.75 ng
RT: 3.92 min Scan# 907
Delta R.T. -0.000 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion: 63 Resp: 55637

Ion	Ratio	Lower	Upper
63	100		
65	31.7	2.8	62.8
83	7.8	0.0	44.3

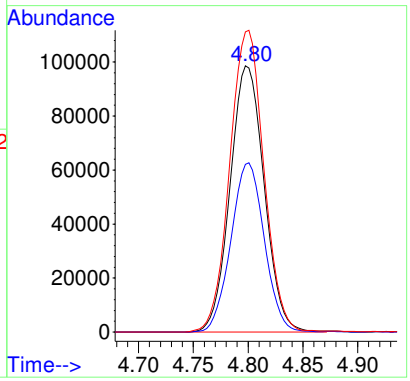


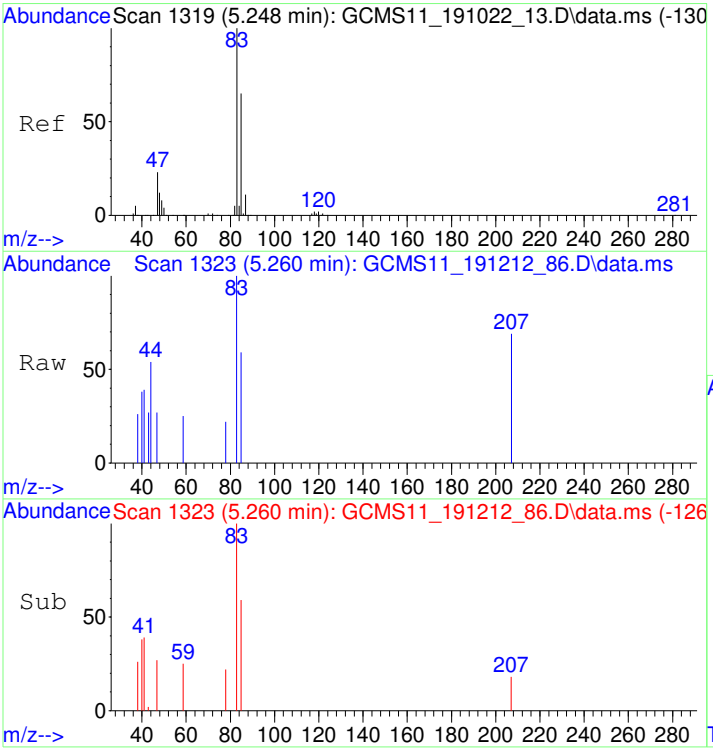


#18
cis-1,2-Dichloroethene
Concen: 681.61 ng
RT: 4.80 min Scan# 1179
Delta R.T. -0.003 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion: 96 Resp: 214125

Ion	Ratio	Lower	Upper
96	100		
98	62.0	30.6	90.6
61	113.4	96.6	156.6

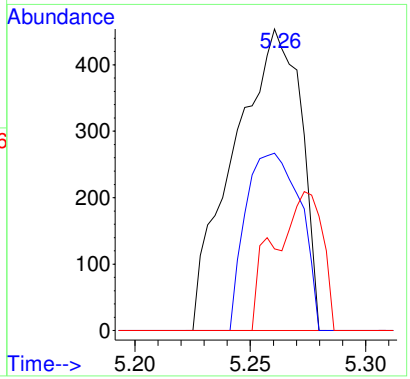


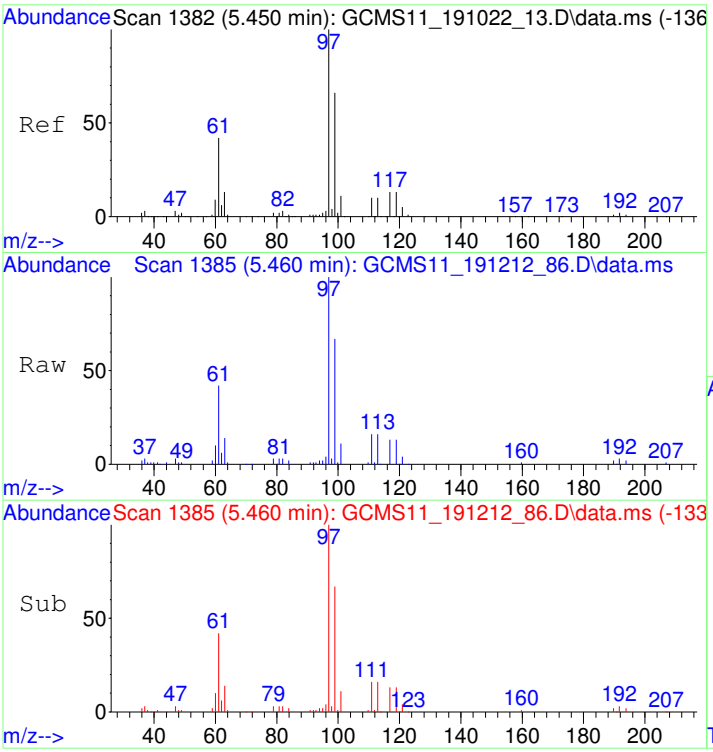


#21
Chloroform
Concen: 1.91 ng
RT: 5.26 min Scan# 1323
Delta R.T. 0.003 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion: 83 Resp: 917

Ion	Ratio	Lower	Upper
83	100		
85	47.9	34.2	94.2
47	10.8	0.0	53.2

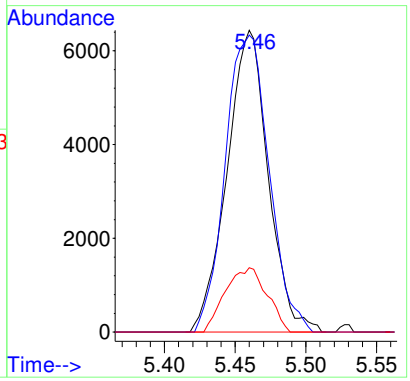


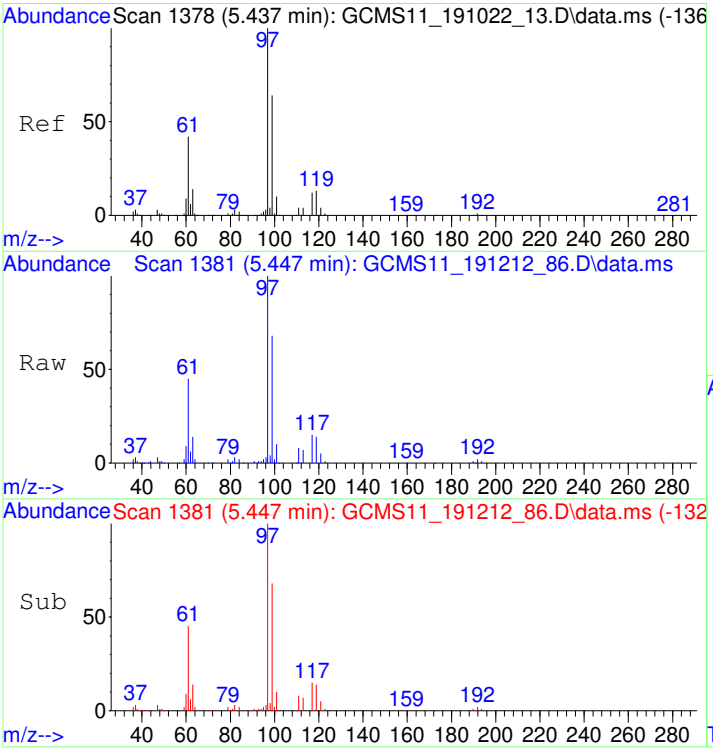


#22
DIBROMOFLUOROMETHANE
Concen: 49.98 ng
RT: 5.46 min Scan# 1385
Delta R.T. -0.000 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion:113 Resp: 13059

Ion	Ratio	Lower	Upper
113	100		
111	104.4	75.2	135.2
192	21.6	0.0	52.1

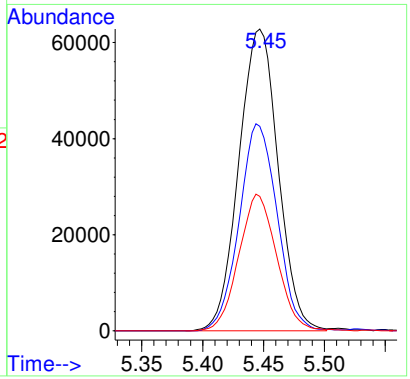


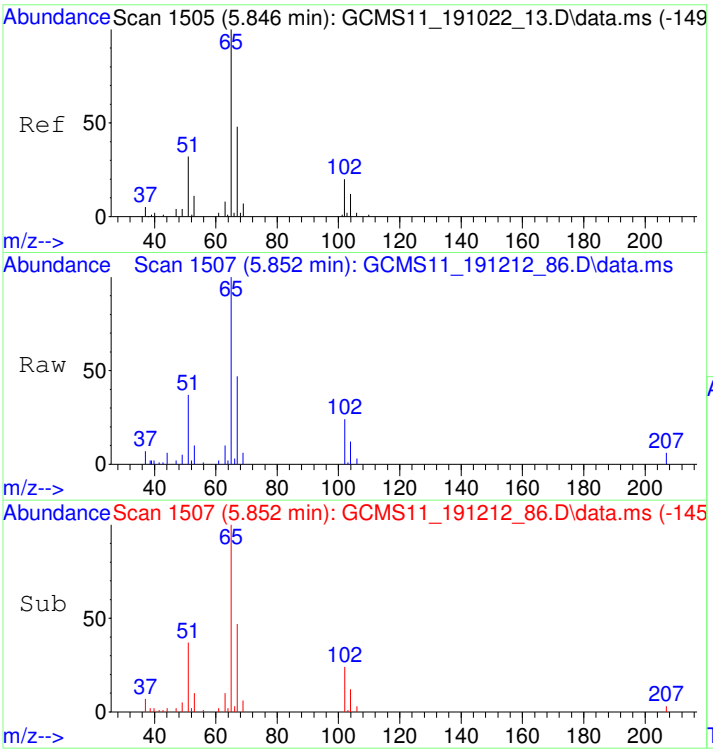


#23
1,1,1-Trichloroethane
Concen: 324.02 ng
RT: 5.45 min Scan# 1381
Delta R.T. 0.003 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion: 97 Resp: 141236

Ion	Ratio	Lower	Upper
97	100		
99	66.3	32.7	92.7
61	43.7	13.1	73.1

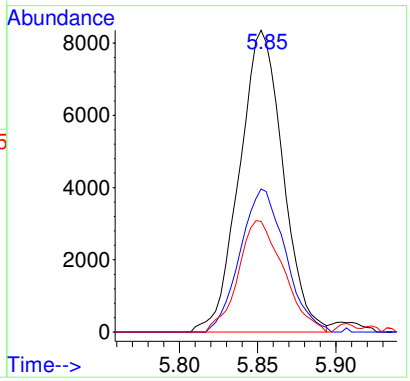


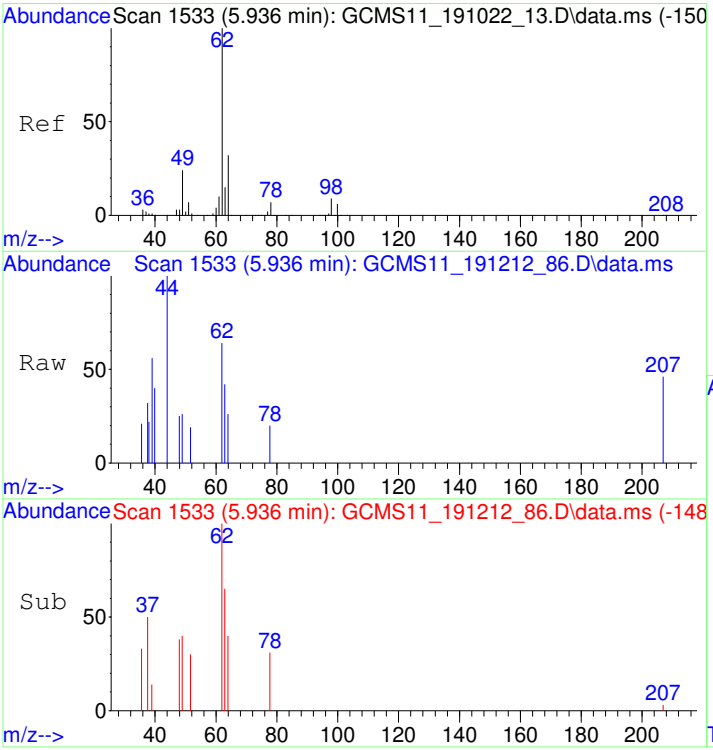


#26
1,2-DICHLOROETHANE-D4
Concen: 51.83 ng
RT: 5.85 min Scan# 1507
Delta R.T. -0.000 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion: 65 Resp: 16138

Ion	Ratio	Lower	Upper
65	100		
67	49.3	15.4	75.4
51	38.3	2.7	62.7

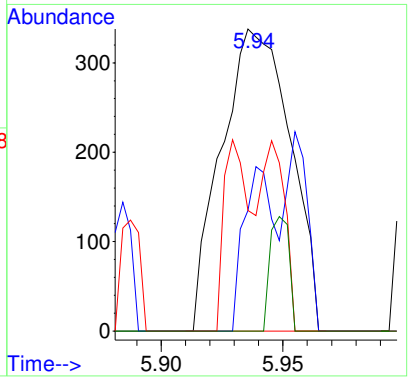


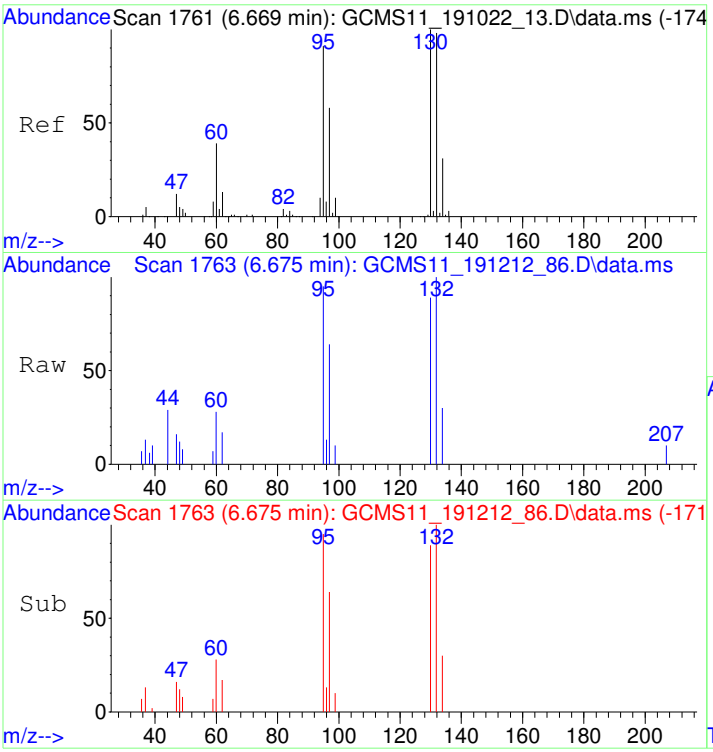


#28
1,2-Dichloroethane
Concen: 1.65 ng
RT: 5.94 min Scan# 1533
Delta R.T. -0.006 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion: 62 Resp: 667

Ion	Ratio	Lower	Upper
62	100		
64	24.1	3.2	63.2
49	24.3	0.0	55.4
98	0.0	0.0	39.6

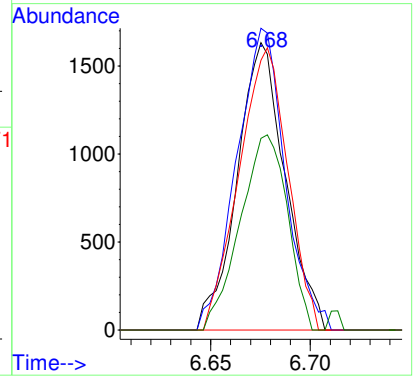


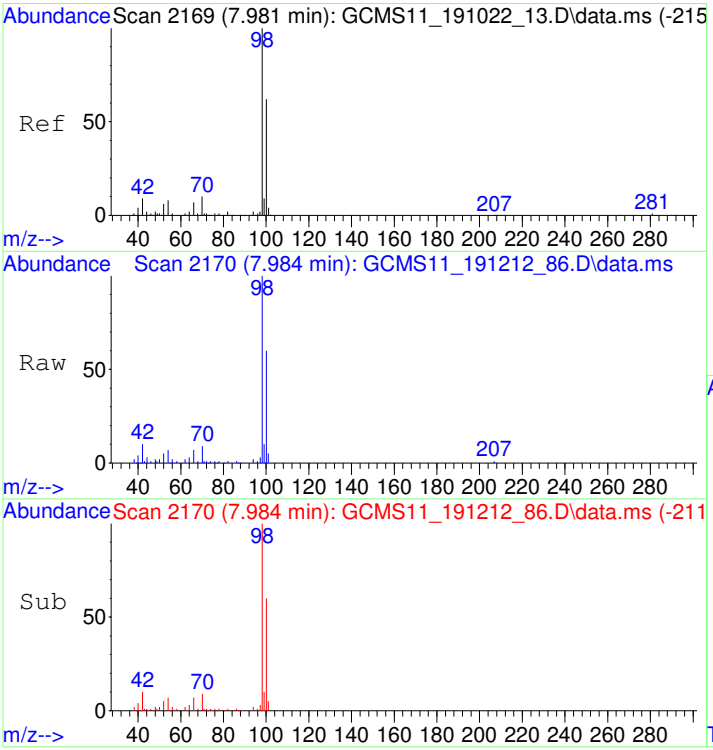


#29
Trichloroethene
Concen: 9.63 ng
RT: 6.68 min Scan# 1763
Delta R.T. -0.000 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion: 95 Resp: 2739

Ion	Ratio	Lower	Upper
95	100		
132	105.7	78.7	138.7
130	99.5	86.1	146.1
97	67.0	37.2	97.2

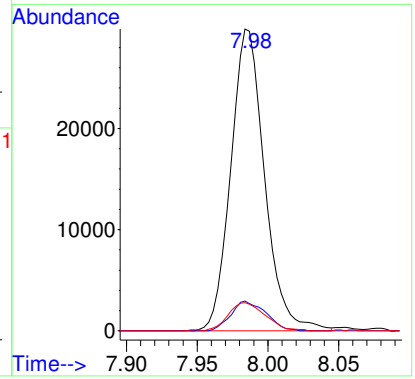


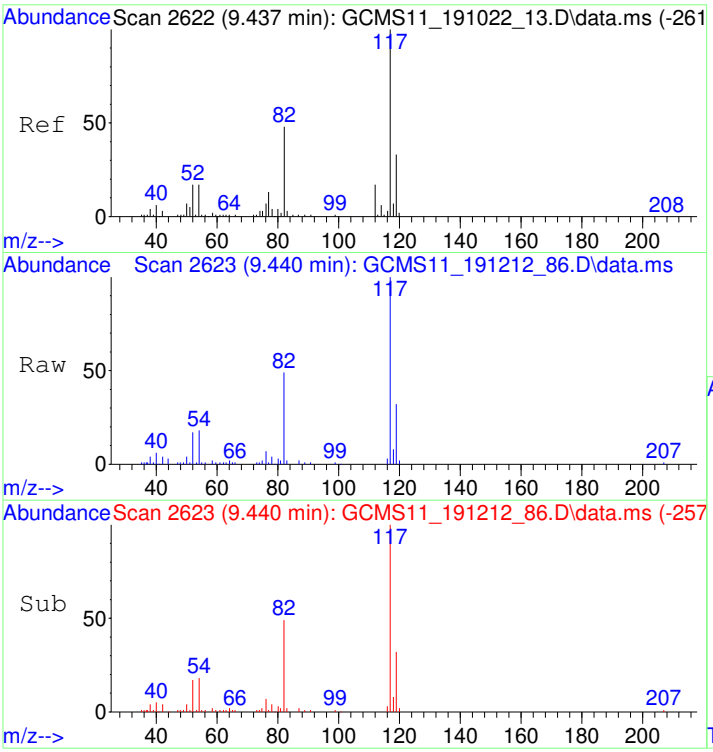


#37
TOLUENE-D8
Concen: 50.69 ng
RT: 7.98 min Scan# 2170
Delta R.T. -0.000 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion: 98 Resp: 49593

Ion	Ratio	Lower	Upper
98	100		
99	10.3	0.0	39.8
70	10.3	0.0	40.7

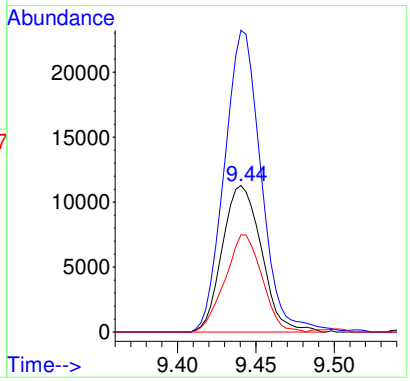


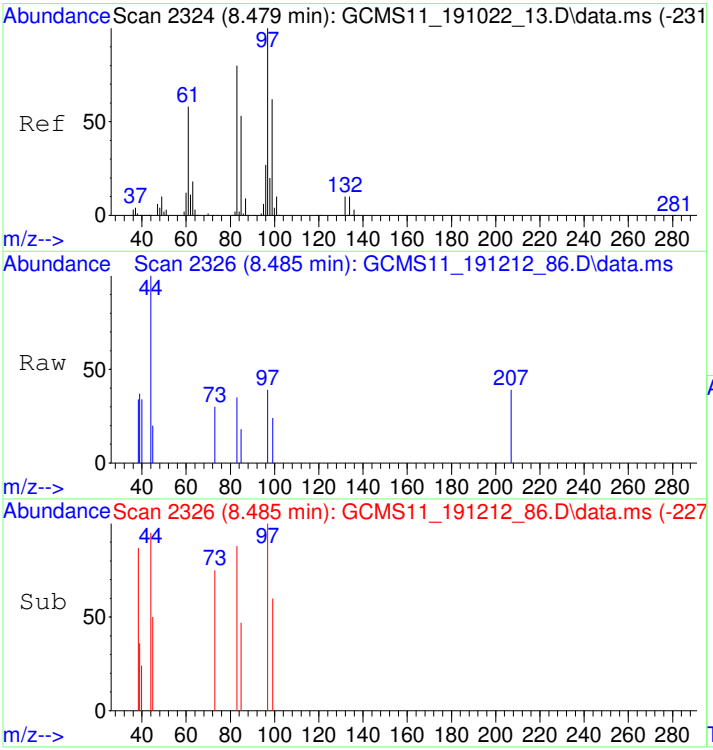


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion: 82 Resp: 19608

Ion	Ratio	Lower	Upper
82	100		
117	193.5	160.7	220.7
119	62.9	33.5	93.5

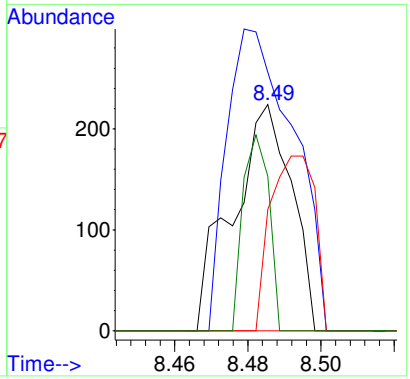


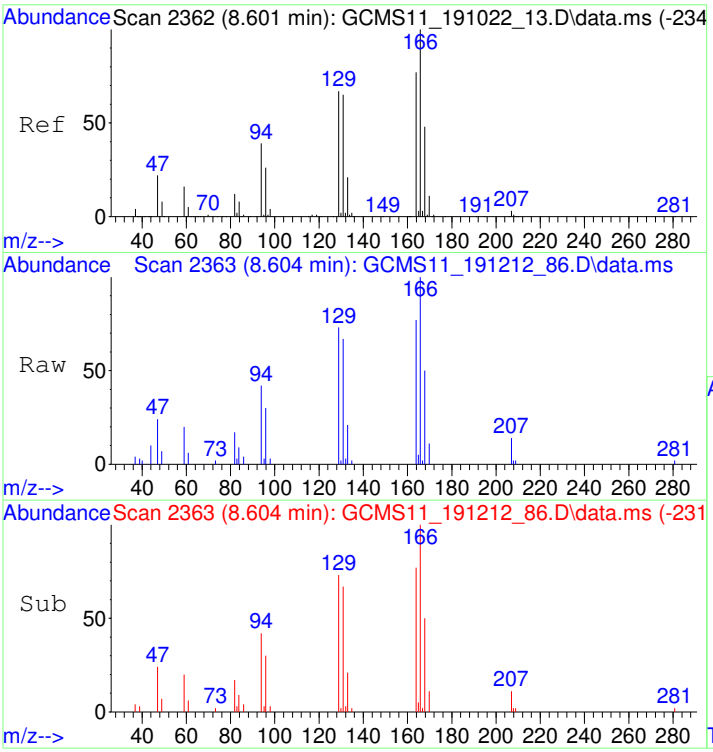


#41
1,1,2-Trichloroethane
Concen: 1.02 ng
RT: 8.49 min Scan# 2326
Delta R.T. 0.003 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion: 83 Resp: 251

Ion	Ratio	Lower	Upper
83	100		
97	151.0	90.7	150.7#
85	58.6	37.5	97.5
99	38.2	46.8	106.8#

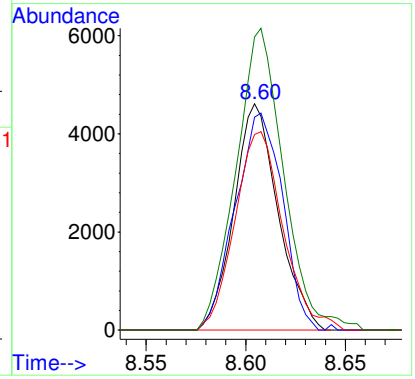


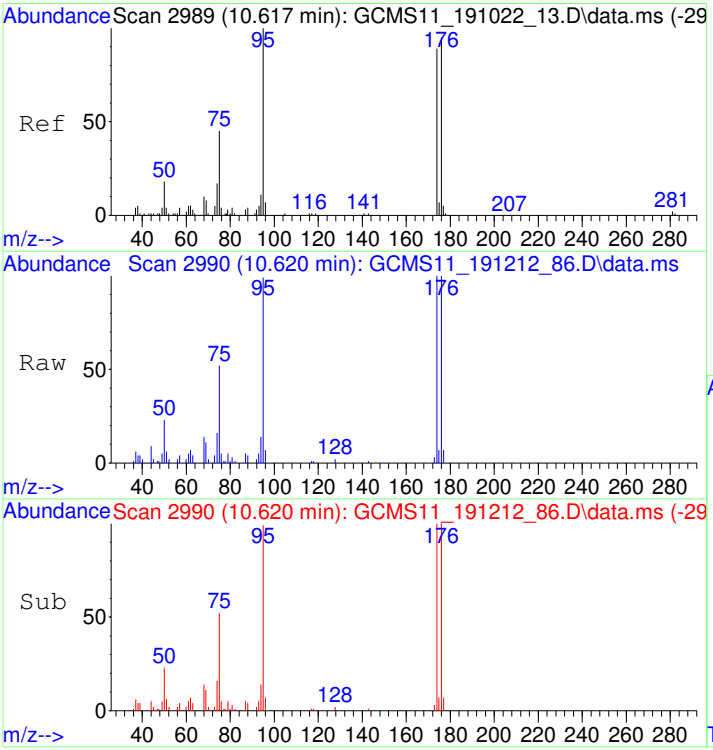


#42
Tetrachloroethene
Concen: 28.90 ng
RT: 8.60 min Scan# 2363
Delta R.T. 0.000 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion:164 Resp: 7133

Ion	Ratio	Lower	Upper
164	100		
129	102.4	57.5	117.5
131	95.5	55.8	115.8
166	143.5	99.4	159.4

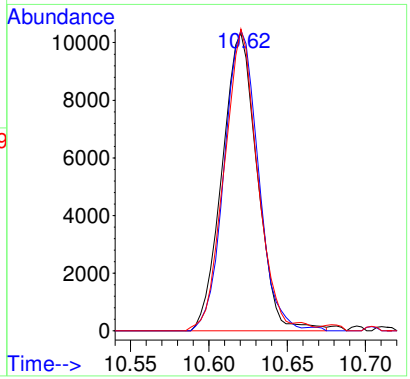


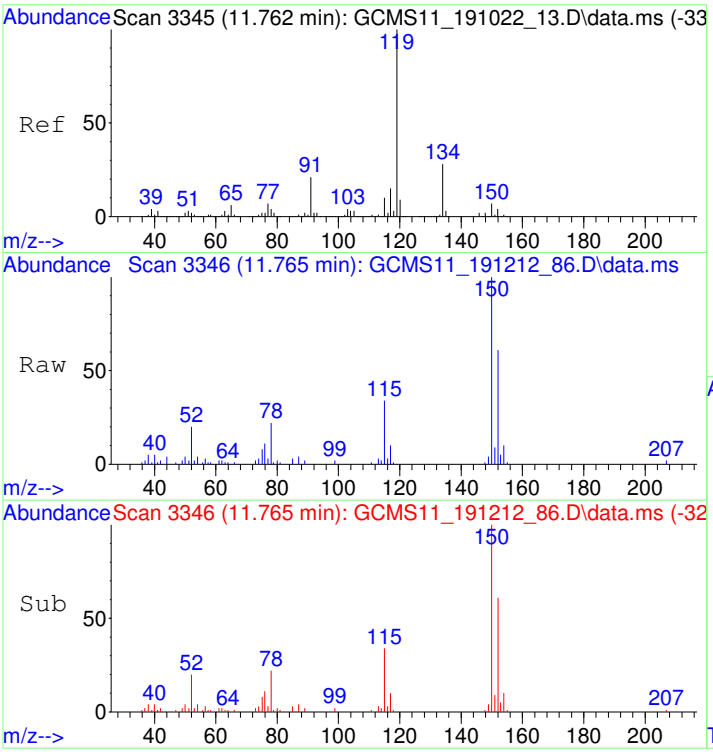


#55
4-BROMOFLUOROBENZENE
Concen: 45.30 ng
RT: 10.62 min Scan# 2990
Delta R.T. -0.000 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion: 95 Resp: 16105

Ion	Ratio	Lower	Upper
95	100		
174	97.7	68.5	128.5
176	96.6	66.8	126.8

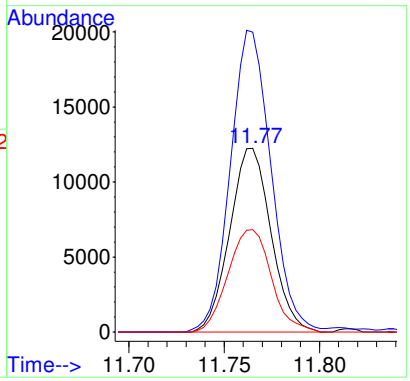


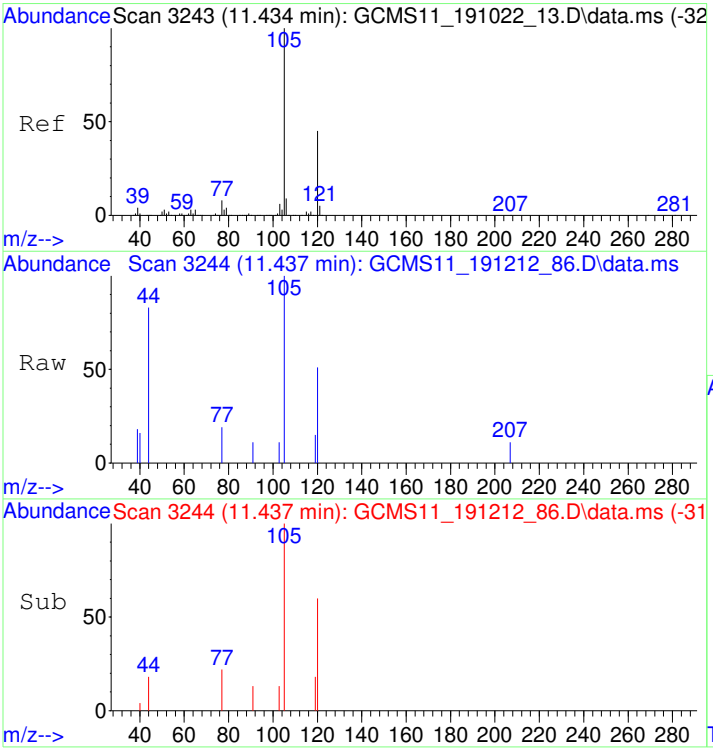


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion:152 Resp: 18441

Ion	Ratio	Lower	Upper
152	100		
150	161.8	162.5	222.5#
115	58.5	82.3	142.3#

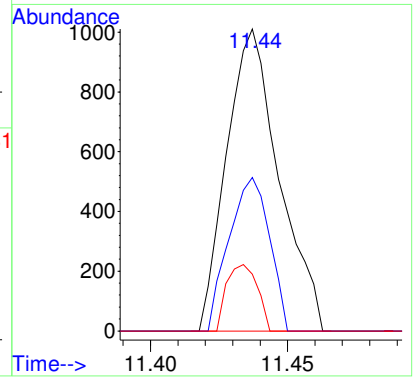




#65
1,2,4-Trimethylbenzene
Concen: 1.35 ng
RT: 11.44 min Scan# 3244
Delta R.T. -0.000 min
Lab File: GCMS11_191212_86.D
Acq: 14 Dec 2019 6:23 am

Tgt Ion:105 Resp: 1342

Ion	Ratio	Lower	Upper
105	100		
120	39.2	18.6	78.6
77	12.9	0.0	41.4



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_72.D
Acq On : 13 Dec 2019 11:38 pm
Operator : ko
Sample : 1912009-04RE1
Misc : LIMS 19L1101
ALS Vial : 56 Sample Multiplier: 1

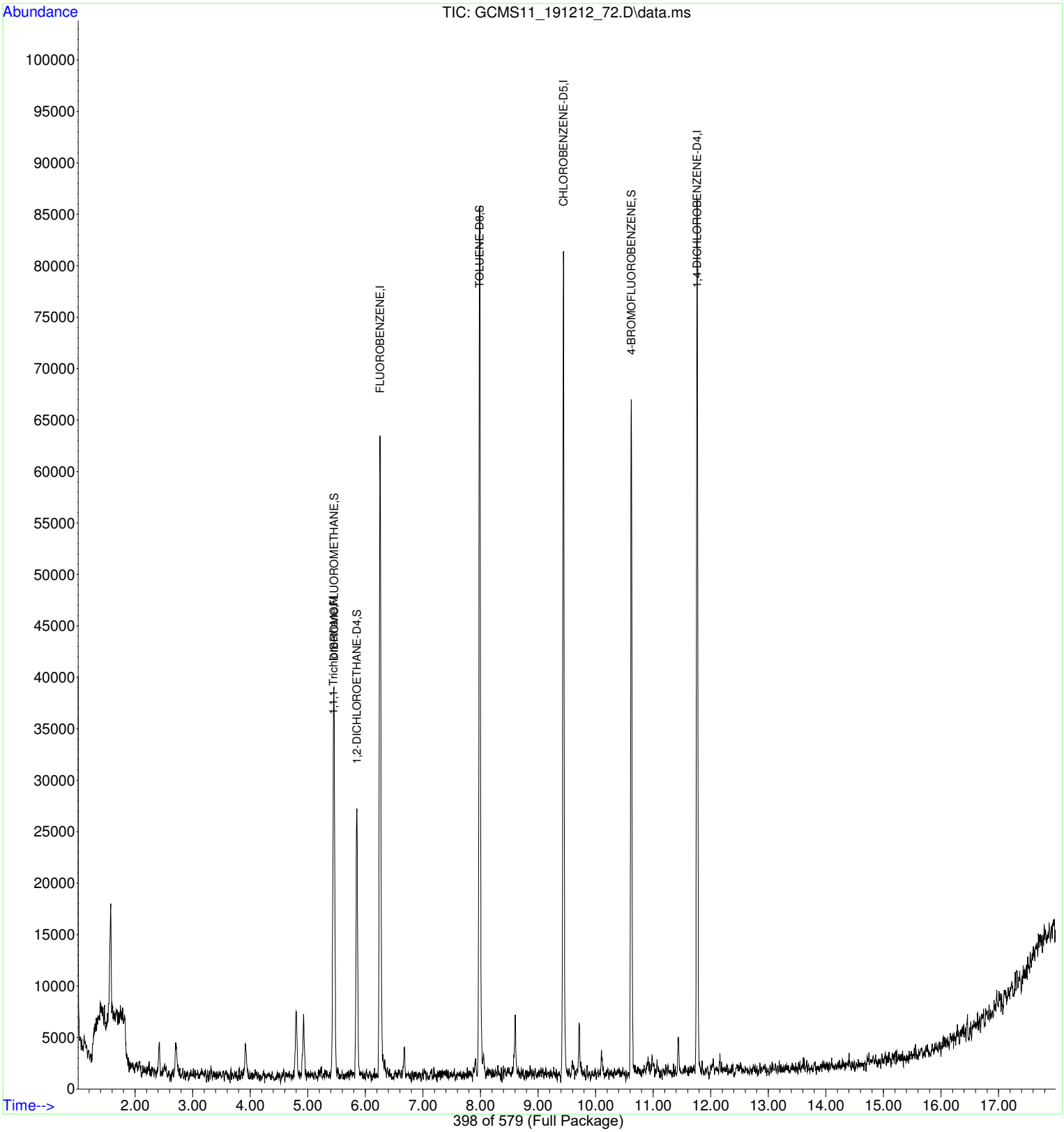
Quant Time: Dec 16 12:08:21 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

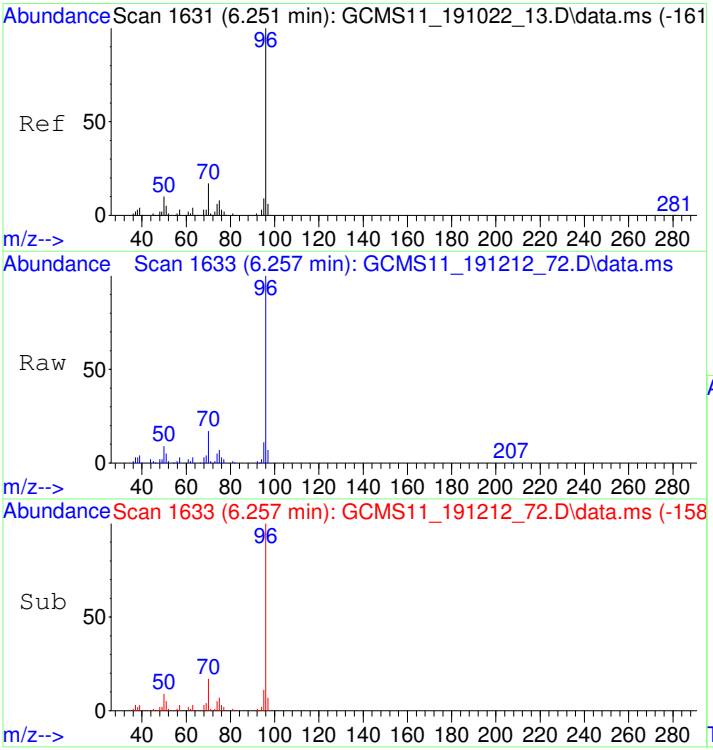
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.26	96	59143	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	21640	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	22012	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.46	113	15556	50.08	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	16972	45.85	ng	0.00
37) TOLUENE-D8	7.98	98	57915	49.79	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	20064	51.14	ng	0.00
Target Compounds						Qvalue
23) 1,1,1-Trichloroethane	5.44	97	10769	20.78	ng	95

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_72.D
Acq On : 13 Dec 2019 11:38 pm
Operator : ko
Sample : 1912009-04RE1
Misc : LIMS 19L1101
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Dec 16 12:08:21 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

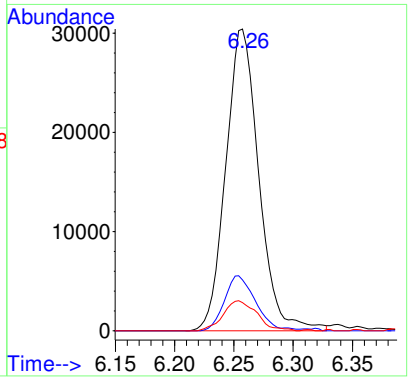


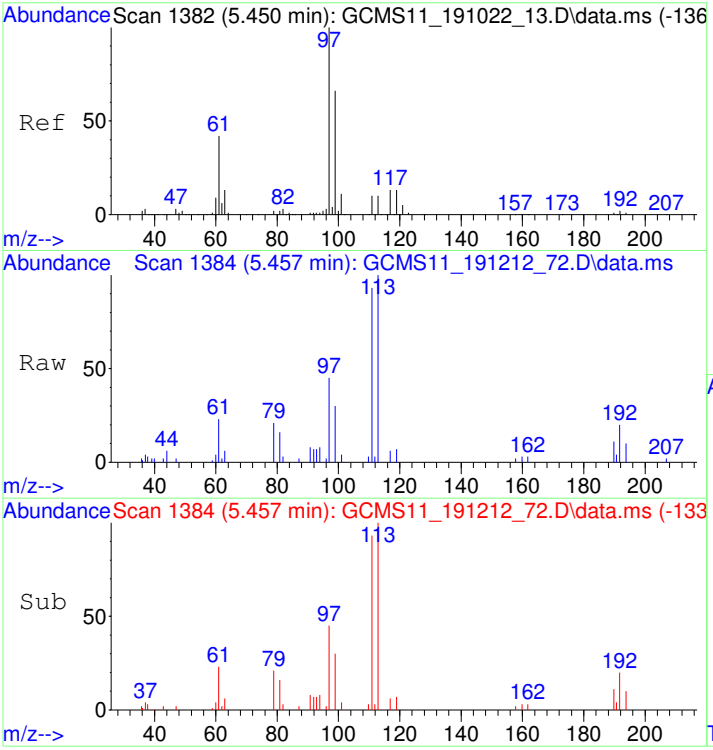


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.26 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191212_72.D
Acq: 13 Dec 2019 11:38 pm

Tgt Ion: 96 Resp: 59143

Ion	Ratio	Lower	Upper
96	100		
70	17.2	0.0	48.3
50	10.2	0.0	39.5

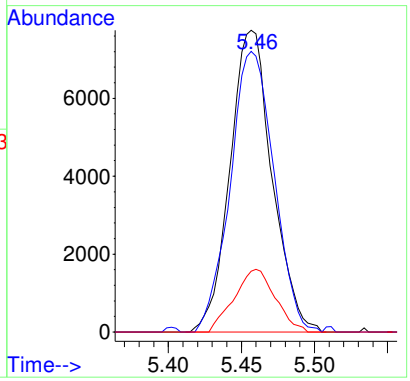


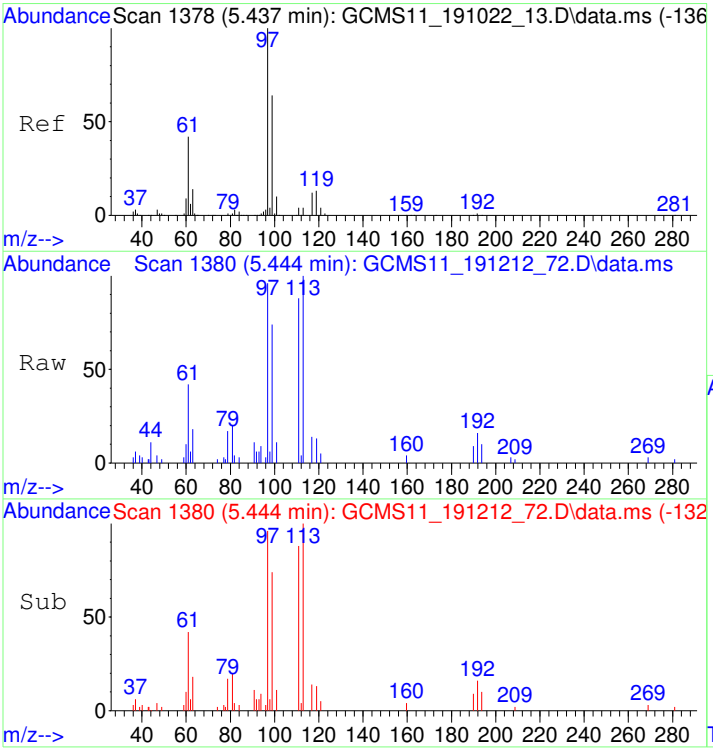


#22
DIBROMOFLUOROMETHANE
Concen: 50.08 ng
RT: 5.46 min Scan# 1384
Delta R.T. -0.003 min
Lab File: GCMS11_191212_72.D
Acq: 13 Dec 2019 11:38 pm

Tgt Ion:113 Resp: 15556

Ion	Ratio	Lower	Upper
113	100		
111	96.6	75.2	135.2
192	20.2	0.0	52.1

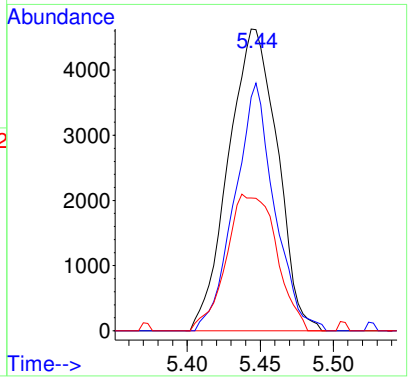


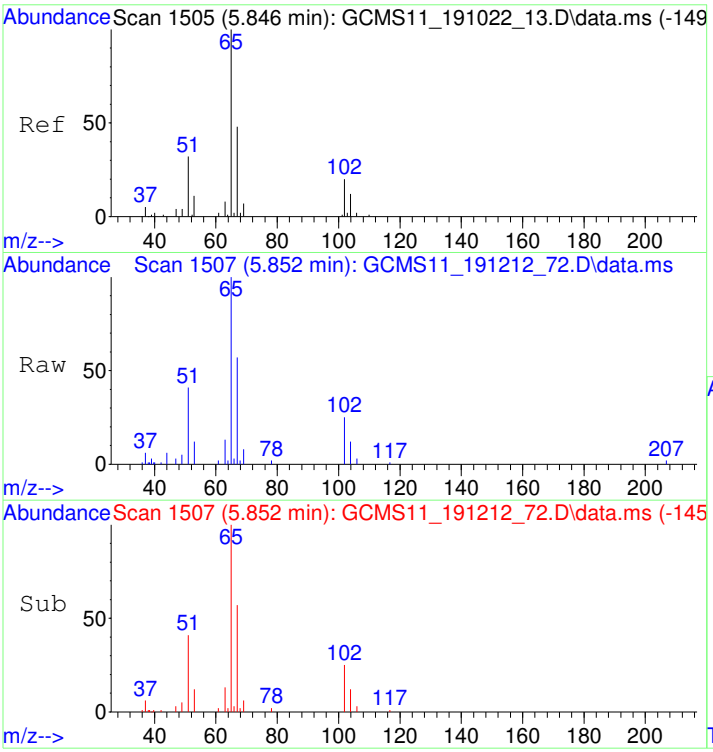


#23
1,1,1-Trichloroethane
Concen: 20.78 ng
RT: 5.44 min Scan# 1380
Delta R.T. 0.000 min
Lab File: GCMS11_191212_72.D
Acq: 13 Dec 2019 11:38 pm

Tgt Ion: 97 Resp: 10769

Ion	Ratio	Lower	Upper
97	100		
99	67.0	32.7	92.7
61	46.4	13.1	73.1

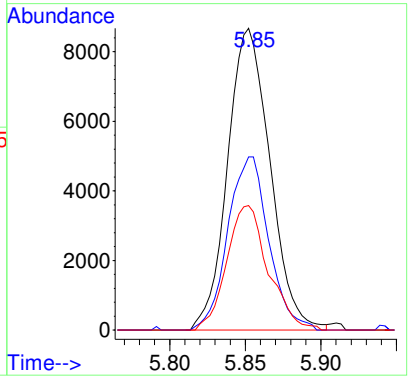


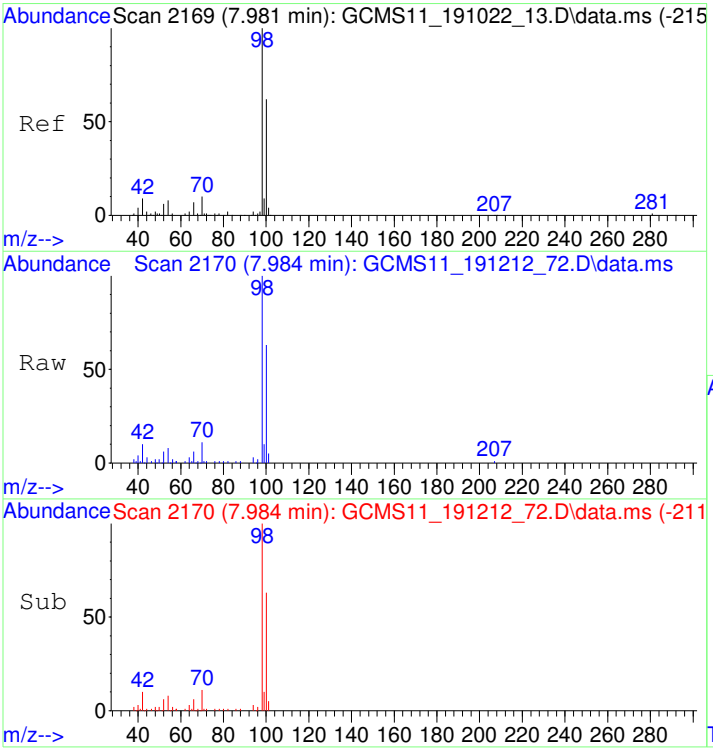


#26
1,2-DICHLOROETHANE-D4
Concen: 45.85 ng
RT: 5.85 min Scan# 1507
Delta R.T. 0.000 min
Lab File: GCMS11_191212_72.D
Acq: 13 Dec 2019 11:38 pm

Tgt Ion: 65 Resp: 16972

Ion	Ratio	Lower	Upper
65	100		
67	55.3	15.4	75.4
51	40.3	2.7	62.7

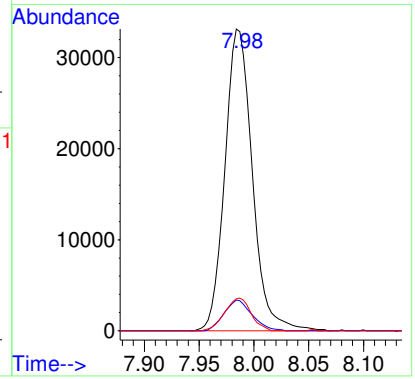


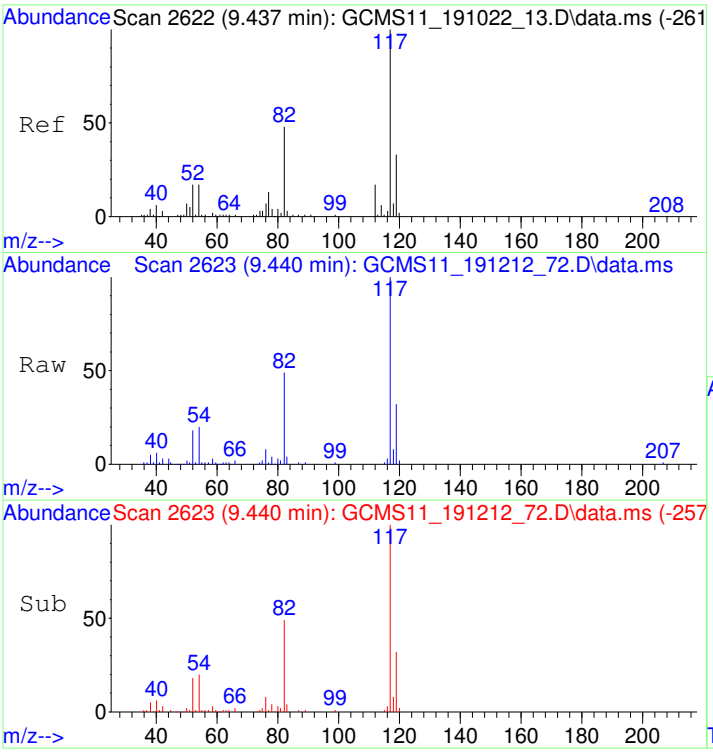


#37
TOLUENE-D8
Concen: 49.79 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191212_72.D
Acq: 13 Dec 2019 11:38 pm

Tgt Ion: 98 Resp: 57915

Ion	Ratio	Lower	Upper
98	100		
99	10.4	0.0	39.8
70	10.4	0.0	40.7

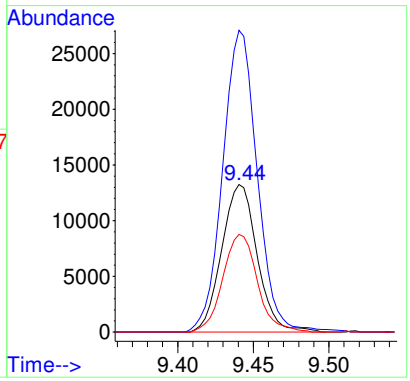


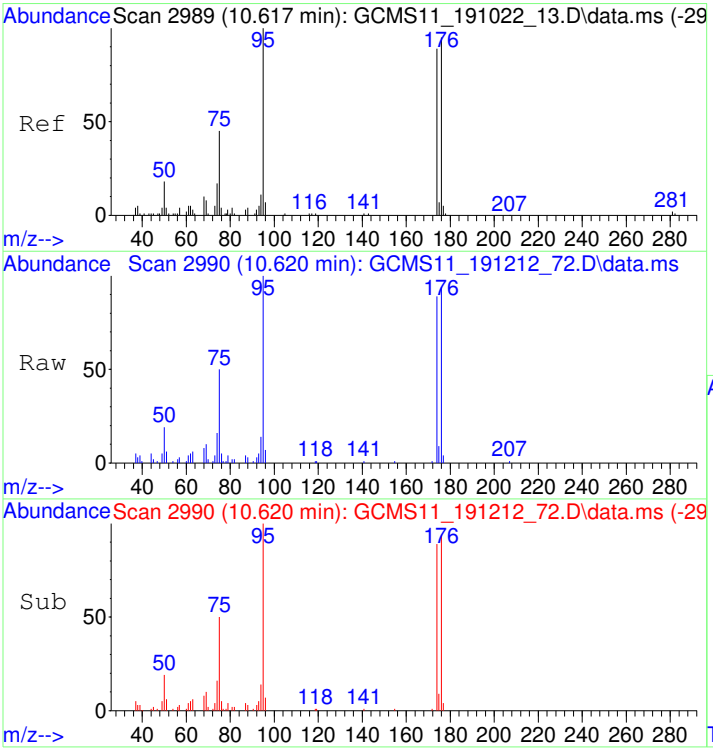


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191212_72.D
Acq: 13 Dec 2019 11:38 pm

Tgt Ion: 82 Resp: 21640

Ion	Ratio	Lower	Upper
82	100		
117	199.0	160.7	220.7
119	64.5	33.5	93.5

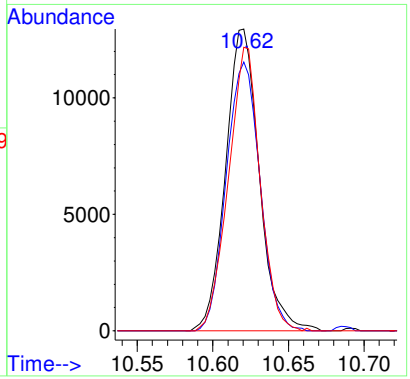


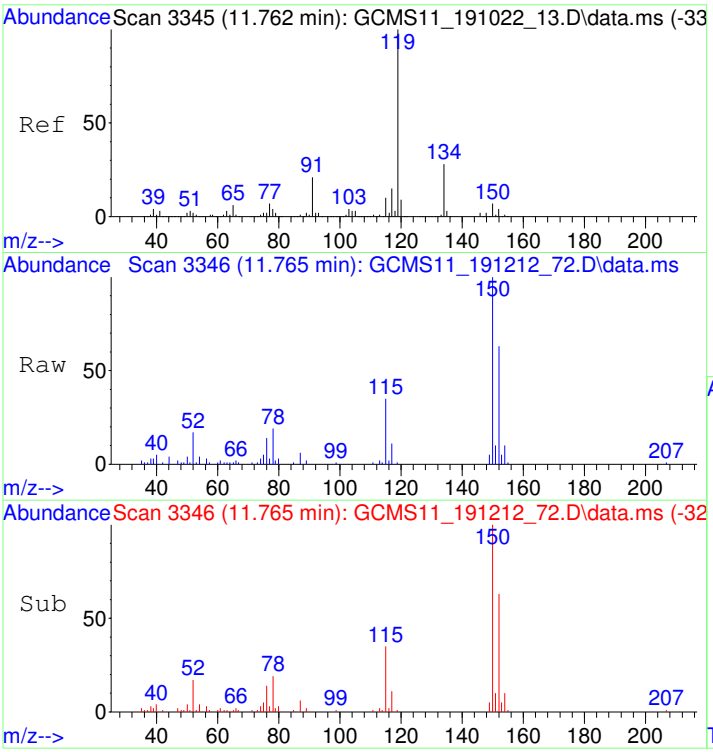


#55
4-BROMOFLUOROBENZENE
Concen: 51.14 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191212_72.D
Acq: 13 Dec 2019 11:38 pm

Tgt Ion: 95 Resp: 20064

Ion	Ratio	Lower	Upper
95	100		
174	89.3	68.5	128.5
176	88.5	66.8	126.8

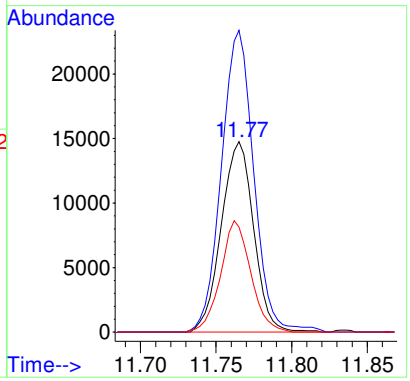




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_72.D
Acq: 13 Dec 2019 11:38 pm

Tgt Ion:152 Resp: 22012

Ion	Ratio	Lower	Upper
152	100		
150	158.0	162.5	222.5#
115	54.4	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_82.D
Acq On : 14 Dec 2019 4:27 am
Operator : ko
Sample : 1912009-05RE1
Misc : LIMS 19L1101, 5X DILUTION
ALS Vial : 63 Sample Multiplier: 1

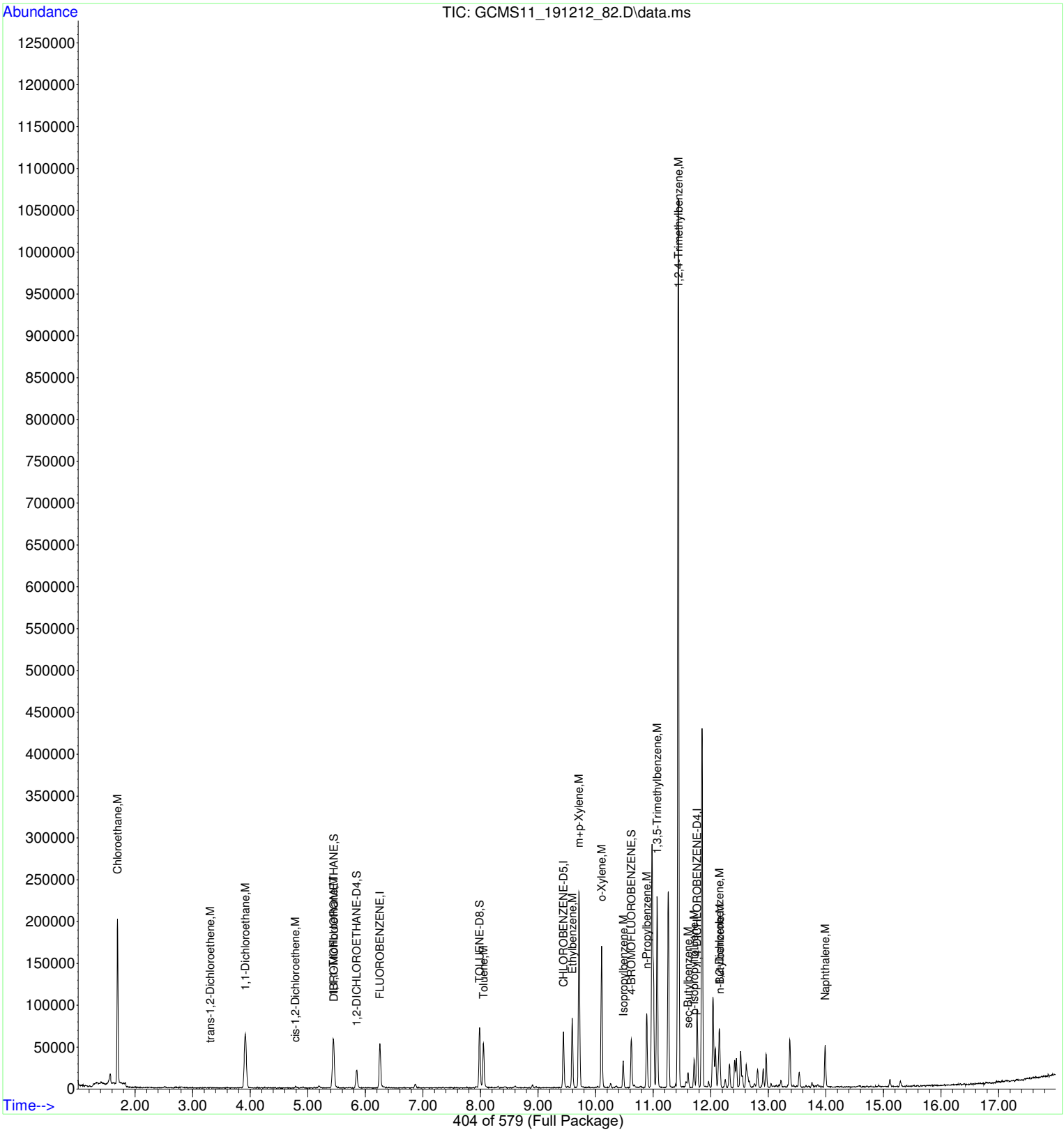
Quant Time: Dec 18 16:39:37 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

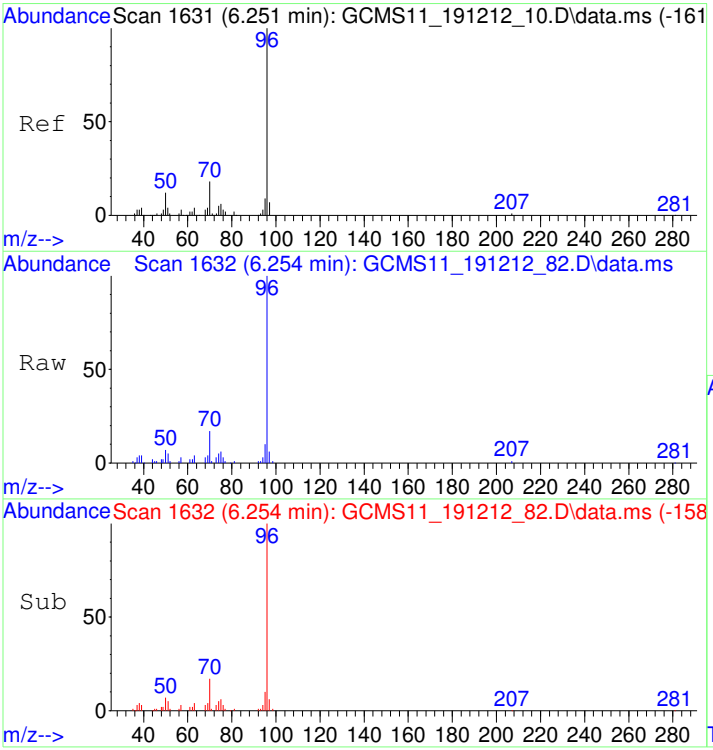
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.25	96	49097	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	18478	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	20503	50.00	ng		# 0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.45	113	12963	50.27	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	14836	48.28	ng		0.00
37) TOLUENE-D8	7.98	98	47025	48.70	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	16485	49.20	ng		0.00
Target Compounds							Qvalue
6) Chloroethane	1.69	64	117659	608.78	ng		99
14) trans-1,2-Dichloroethene	3.30	96	361	1.26	ng	#	62
16) 1,1-Dichloroethane	3.92	63	76981	162.27	ng		99
18) cis-1,2-Dichloroethene	4.78	96	835m	2.69	ng		
23) 1,1,1-Trichloroethane	5.44	97	30486	70.86	ng		97
38) Toluene	8.05	92	22352	33.57	ng		99
49) Ethylbenzene	9.59	106	17661	43.18	ng		91
50) m+p-Xylene	9.71	106	68508	132.38	ng		99
51) o-Xylene	10.10	106	45102	90.22	ng		98
54) Isopropylbenzene	10.48	105	19447	14.73	ng		96
58) n-Propylbenzene	10.89	91	63126	42.53	ng		98
60) 1,3,5-Trimethylbenzene	11.07	105	117039	108.87	ng		99
65) 1,2,4-Trimethylbenzene	11.44	105	548939	496.12	ng		99
66) sec-Butylbenzene	11.60	105	11724	8.64	ng	#	82
68) p-Isopropyltoluene	11.71	119	17720m	14.91	ng		
70) 1,2-Dichlorobenzene	12.15	146	5125	7.49	ng		94
71) n-Butylbenzene	12.16	91	11852	11.21	ng	#	27
75) Naphthalene	13.99	128	36861	31.18	ng		95

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_82.D
Acq On : 14 Dec 2019 4:27 am
Operator : ko
Sample : 1912009-05RE1
Misc : LIMS 19L1101, 5X DILUTION
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Dec 18 16:39:37 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

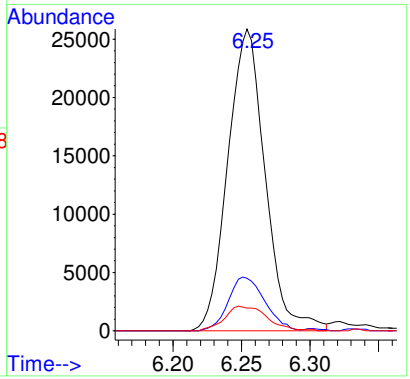


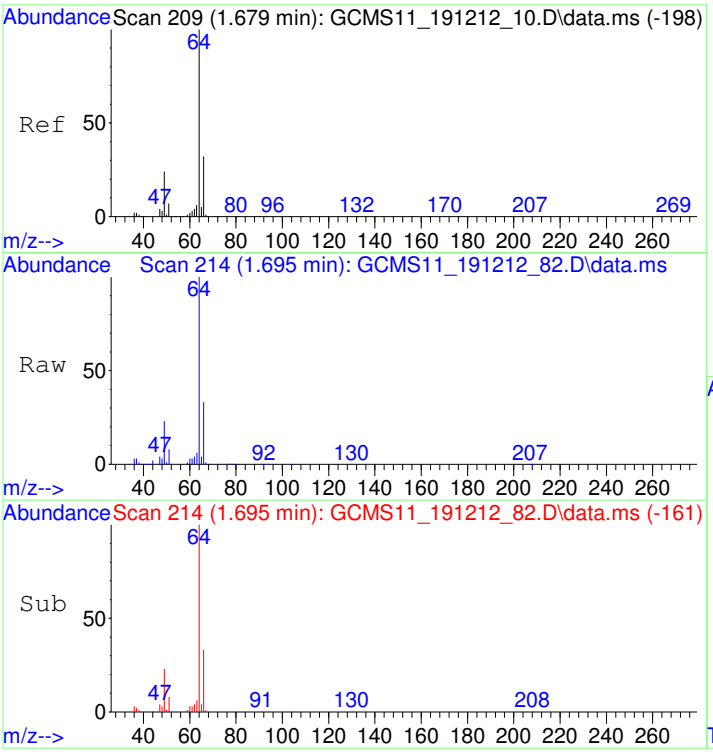


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion: 96 Resp: 49097

Ion	Ratio	Lower	Upper
96	100		
70	17.5	0.0	48.3
50	9.1	0.0	39.5

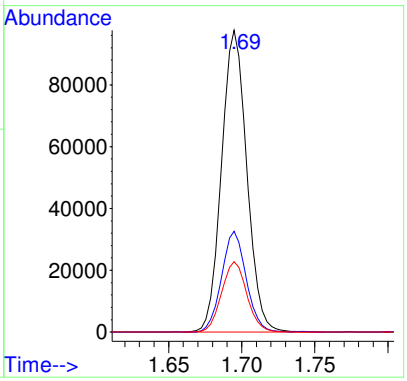


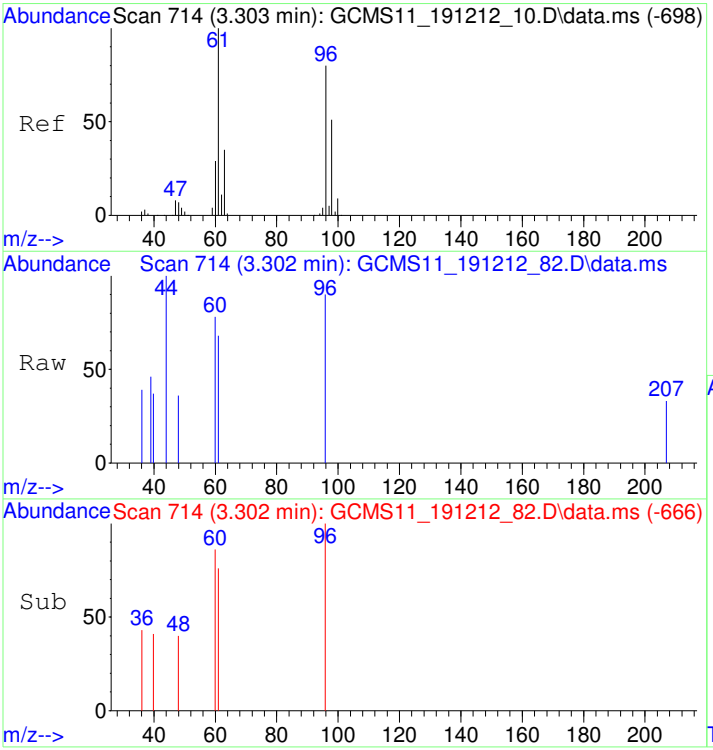


#6
Chloroethane
Concen: 608.78 ng
RT: 1.69 min Scan# 214
Delta R.T. 0.000 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion: 64 Resp: 117659

Ion	Ratio	Lower	Upper
64	100		
66	32.6	3.3	63.3
49	23.3	0.0	53.3

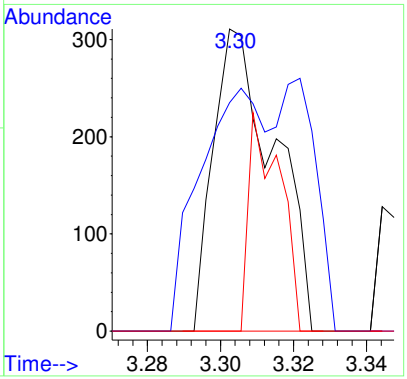


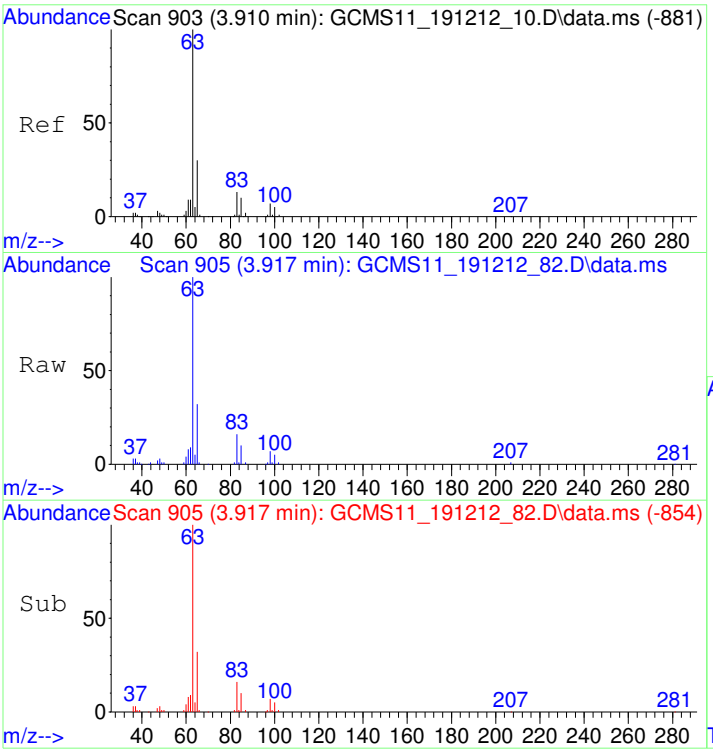


#14
trans-1,2-Dichloroethene
Concen: 1.26 ng
RT: 3.30 min Scan# 714
Delta R.T. -0.016 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion: 96 Resp: 361

Ion	Ratio	Lower	Upper
96	100		
61	84.5	99.6	159.6#
98	37.1	35.3	95.3

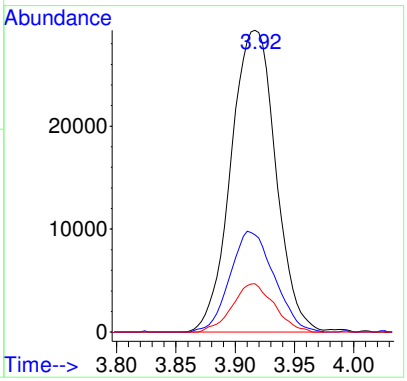


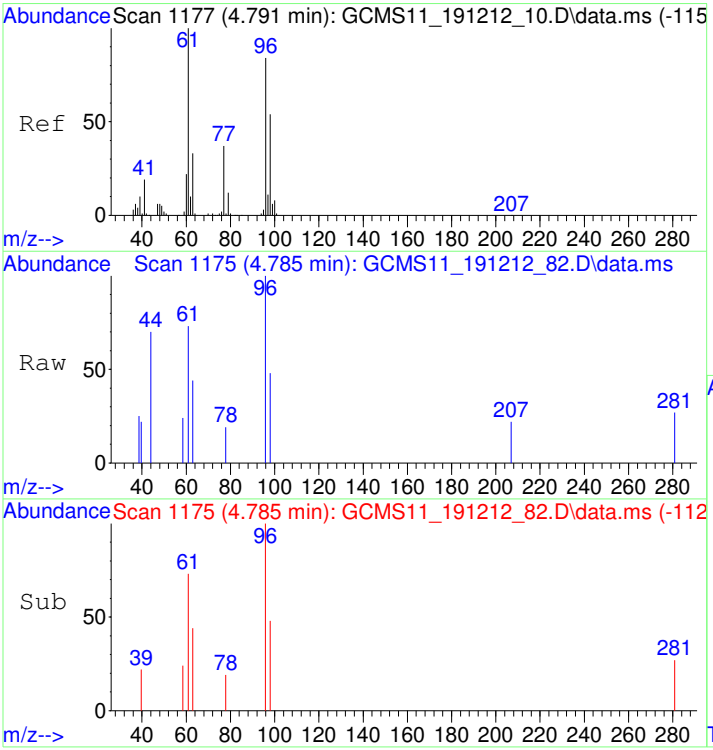


#16
1,1-Dichloroethane
Concen: 162.27 ng
RT: 3.92 min Scan# 905
Delta R.T. -0.006 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion: 63 Resp: 76981

Ion	Ratio	Lower	Upper
63	100		
65	33.0	2.8	62.8
83	15.1	0.0	44.3

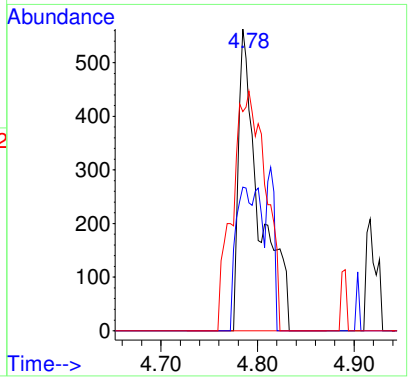


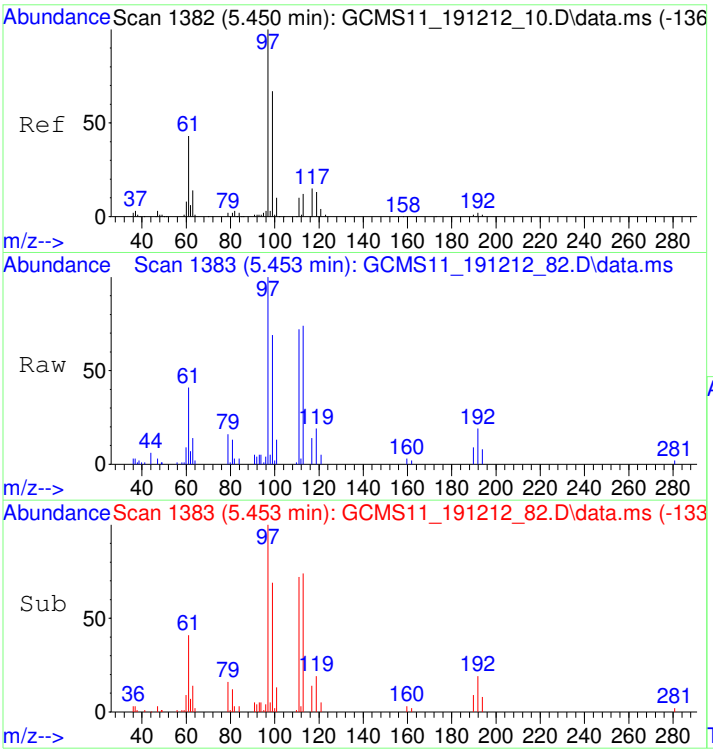


#18
cis-1,2-Dichloroethene
Concen: 2.69 ng m
RT: 4.78 min Scan# 1175
Delta R.T. -0.016 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion: 96 Resp: 835

Ion	Ratio	Lower	Upper
96	100		
98	37.2	30.6	90.6
61	127.9	96.6	156.6

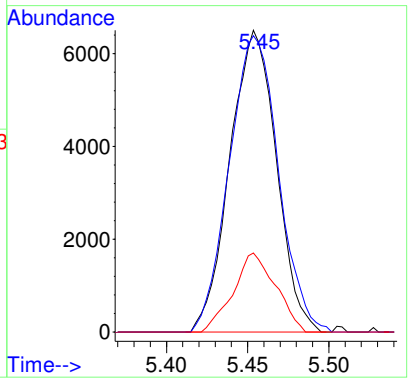


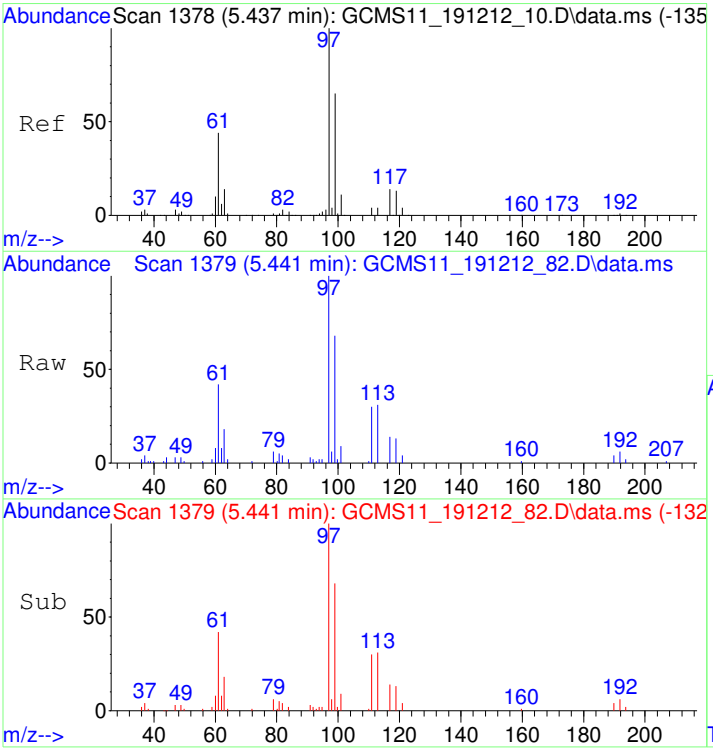


#22
DIBROMOFLUOROMETHANE
Concen: 50.27 ng
RT: 5.45 min Scan# 1383
Delta R.T. -0.006 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion:113 Resp: 12963

Ion	Ratio	Lower	Upper
113	100		
111	104.0	75.2	135.2
192	23.9	0.0	52.1

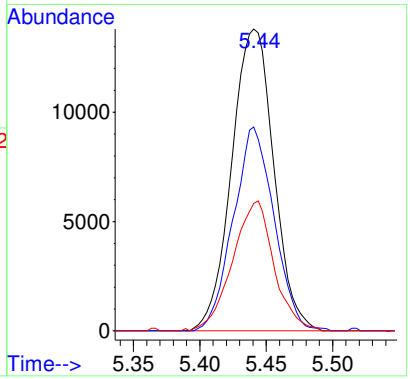


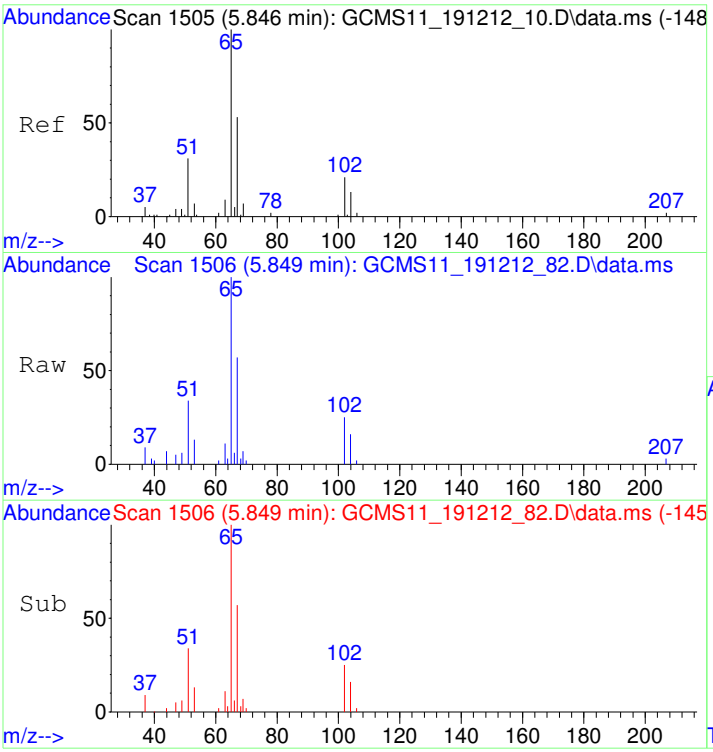


#23
1,1,1-Trichloroethane
Concen: 70.86 ng
RT: 5.44 min Scan# 1379
Delta R.T. -0.003 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion: 97 Resp: 30486

Ion	Ratio	Lower	Upper
97	100		
99	65.5	32.7	92.7
61	42.3	13.1	73.1

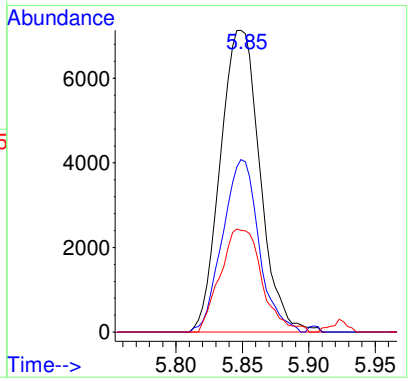


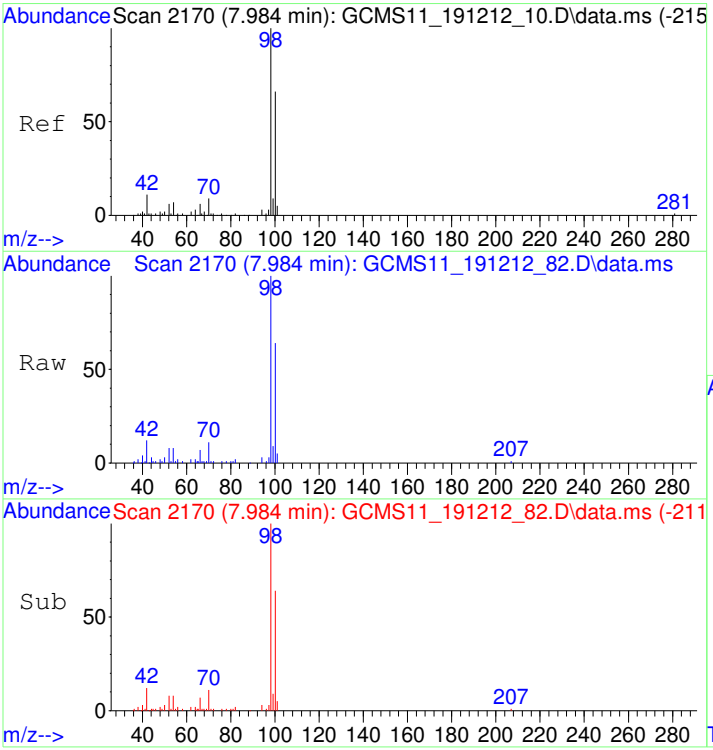


#26
1,2-DICHLOROETHANE-D4
Concen: 48.28 ng
RT: 5.85 min Scan# 1506
Delta R.T. -0.003 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion: 65 Resp: 14836

Ion	Ratio	Lower	Upper
65	100		
67	52.4	15.4	75.4
51	35.8	2.7	62.7

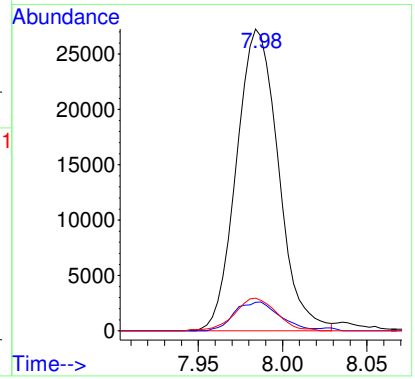


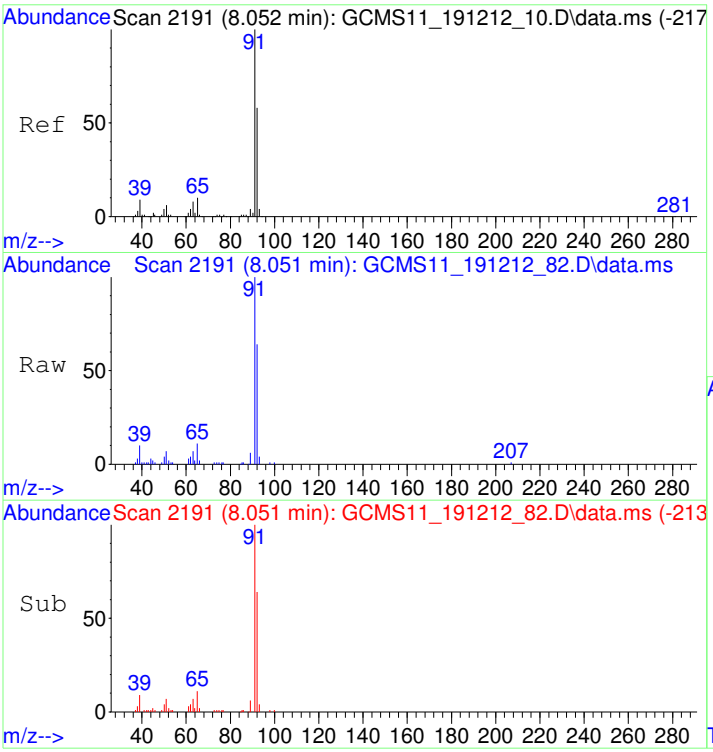


#37
TOLUENE-D8
Concen: 48.70 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion: 98 Resp: 47025

Ion	Ratio	Lower	Upper
98	100		
99	10.3	0.0	39.8
70	10.9	0.0	40.7

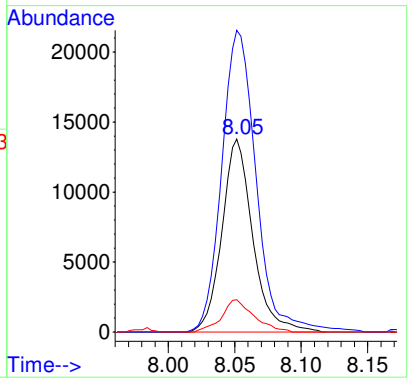


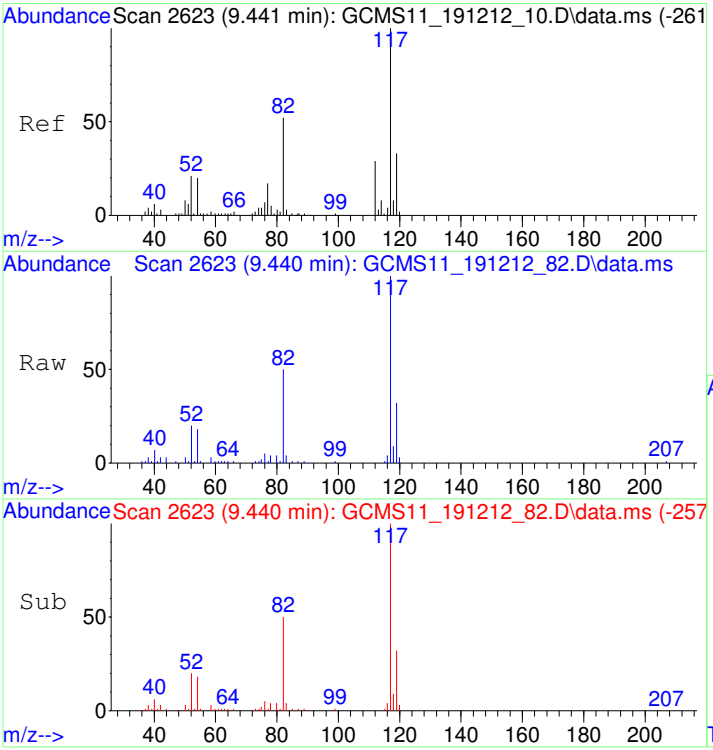


#38
Toluene
Concen: 33.57 ng
RT: 8.05 min Scan# 2191
Delta R.T. -0.003 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion: 92 Resp: 22352

Ion	Ratio	Lower	Upper
92	100		
91	174.4	145.1	205.1
65	17.5	0.0	48.1

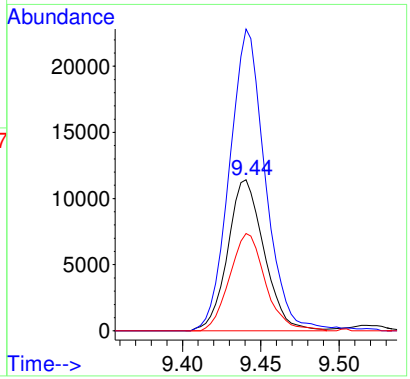


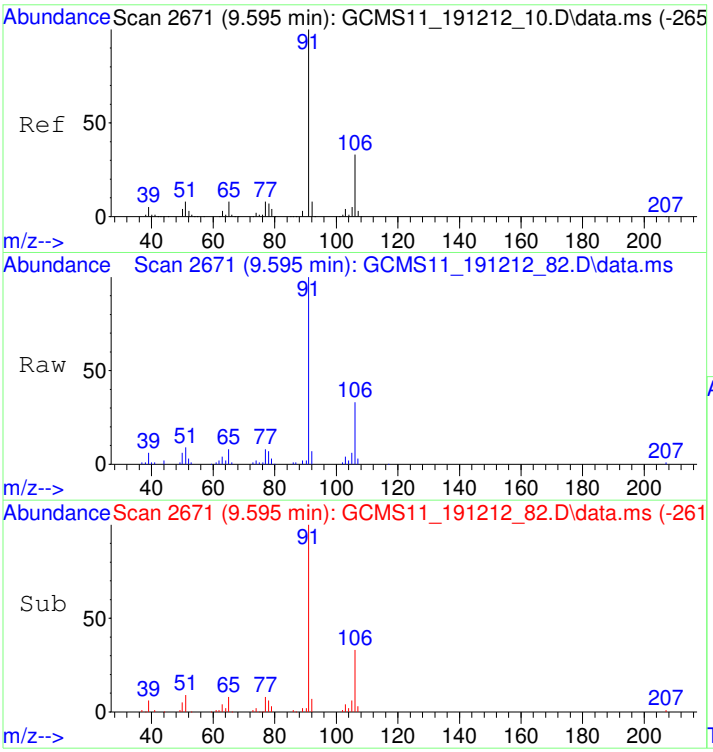


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion: 82 Resp: 18478

Ion	Ratio	Lower	Upper
82	100		
117	197.7	160.7	220.7
119	63.4	33.5	93.5

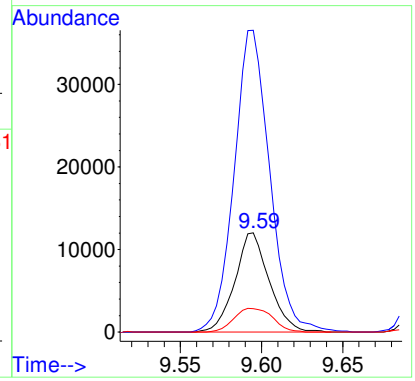


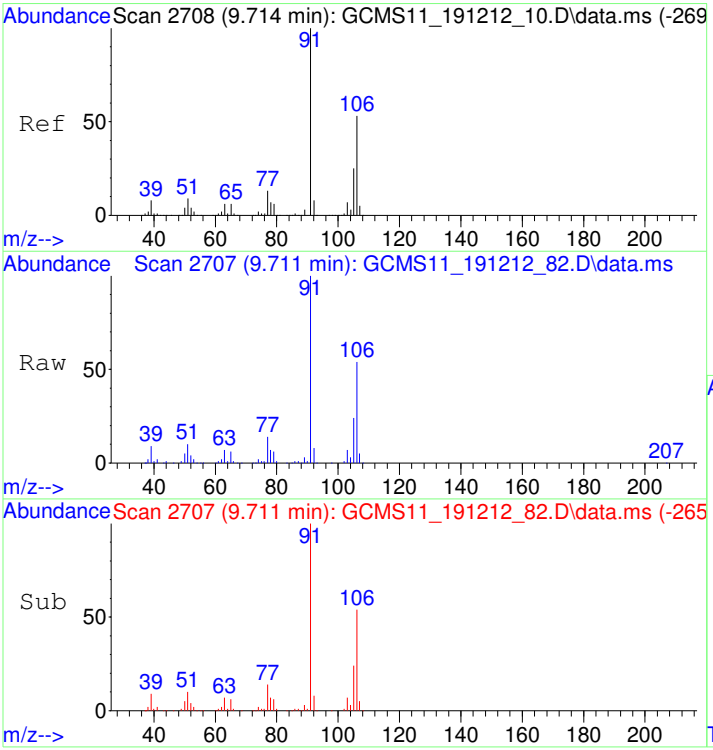


#49
Ethylbenzene
Concen: 43.18 ng
RT: 9.59 min Scan# 2671
Delta R.T. 0.000 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion:106 Resp: 17661

Ion	Ratio	Lower	Upper
106	100		
91	316.1	267.1	327.1
77	27.1	0.0	57.1

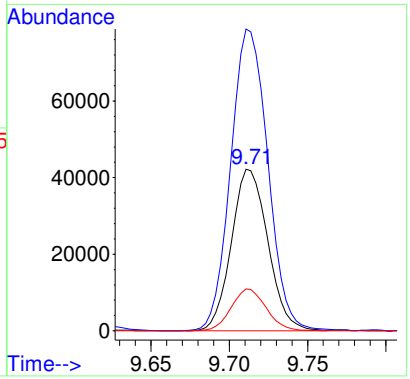


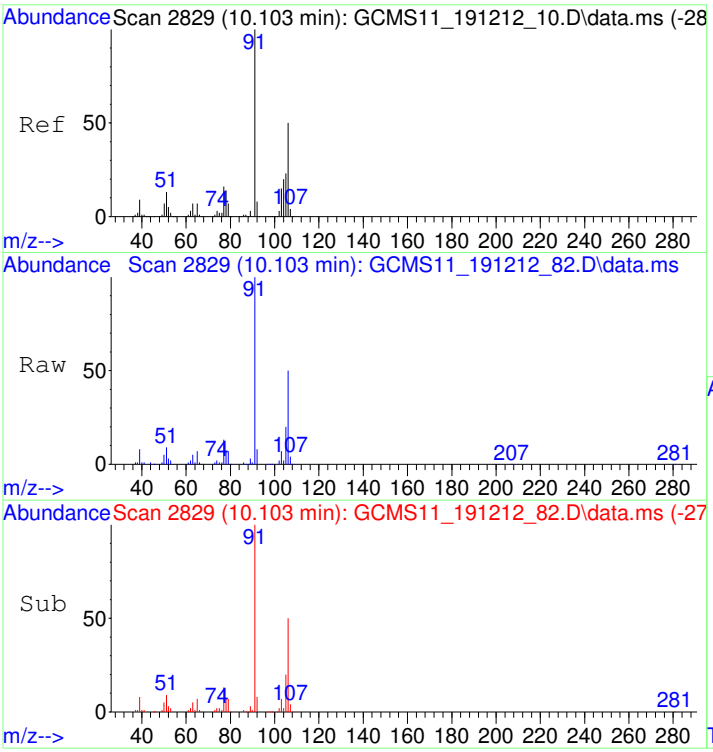


#50
m+p-Xylene
Concen: 132.38 ng
RT: 9.71 min Scan# 2707
Delta R.T. -0.003 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion:106 Resp: 68508

Ion	Ratio	Lower	Upper
106	100		
91	190.1	160.8	220.8
77	25.0	0.0	54.6

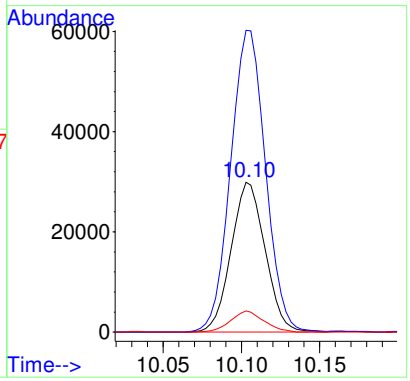


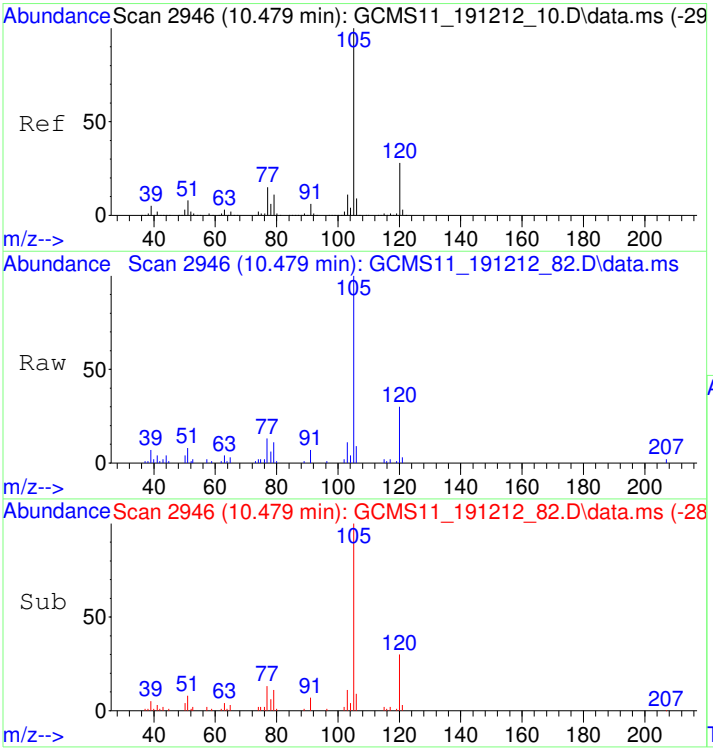


#51
o-Xylene
Concen: 90.22 ng
RT: 10.10 min Scan# 2829
Delta R.T. 0.000 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion:106 Resp: 45102

Ion	Ratio	Lower	Upper
106	100		
91	206.5	178.4	238.4
65	13.8	0.0	45.9

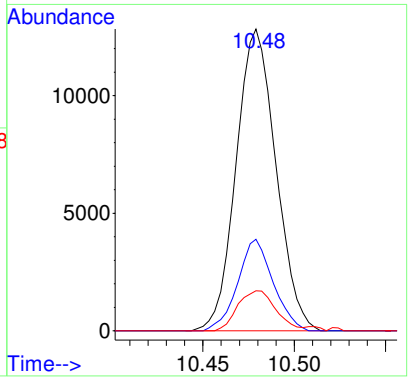


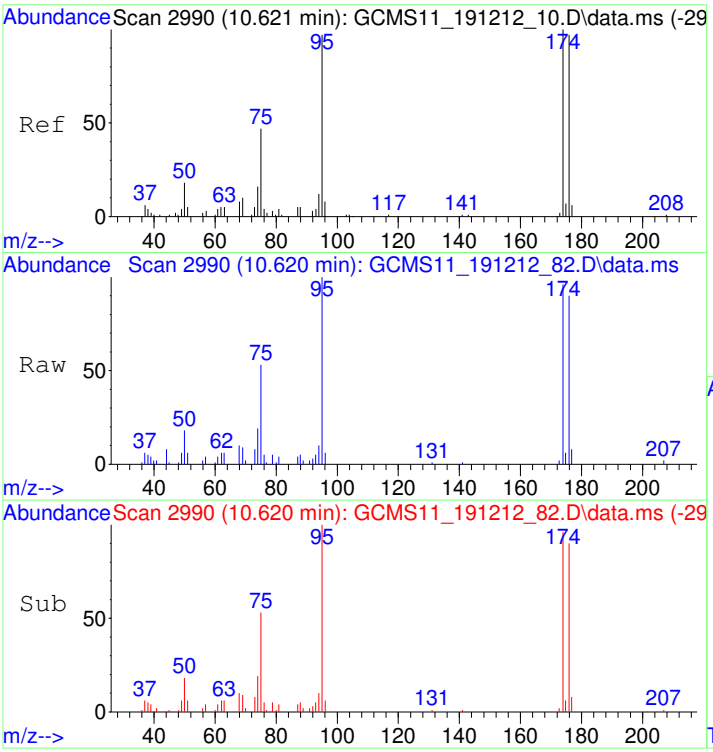


#54
Isopropylbenzene
Concen: 14.73 ng
RT: 10.48 min Scan# 2946
Delta R.T. 0.000 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion:105 Resp: 19447

Ion	Ratio	Lower	Upper
105	100		
120	27.1	0.0	59.2
77	12.8	0.0	44.3

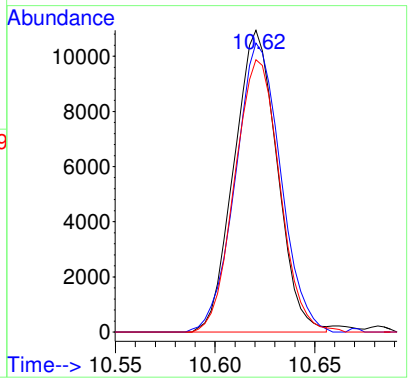


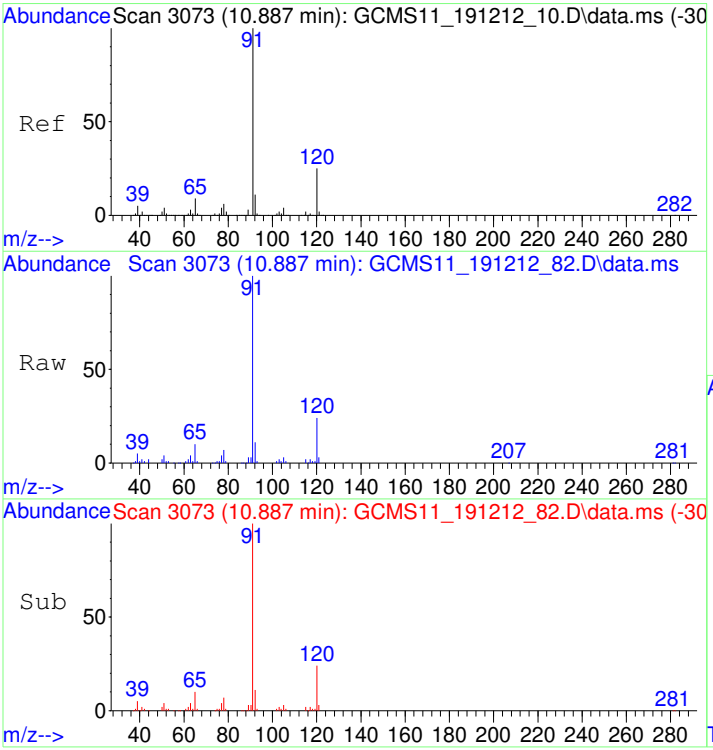


#55
4-BROMOFLUOROBENZENE
Concen: 49.20 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion: 95 Resp: 16485

Ion	Ratio	Lower	Upper
95	100		
174	100.3	68.5	128.5
176	93.8	66.8	126.8

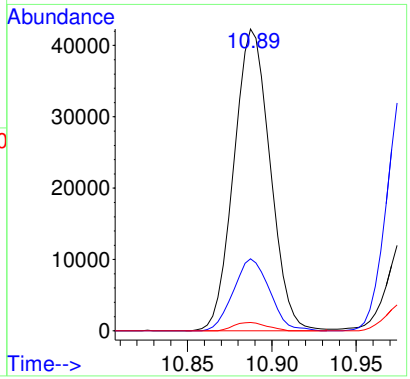


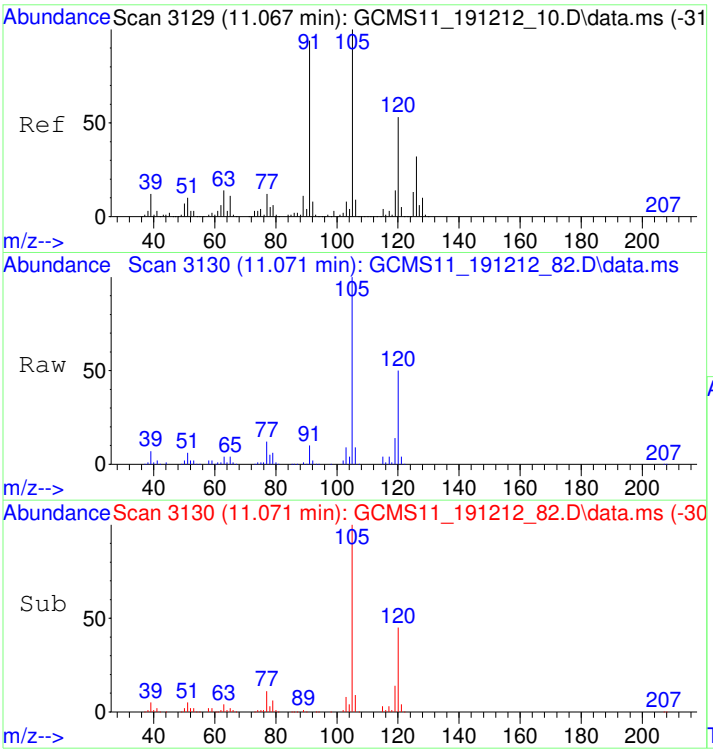


#58
n-Propylbenzene
Concen: 42.53 ng
RT: 10.89 min Scan# 3073
Delta R.T. 0.000 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion: 91 Resp: 63126

Ion	Ratio	Lower	Upper
91	100		
120	23.9	0.0	55.0
121	2.5	0.0	32.4

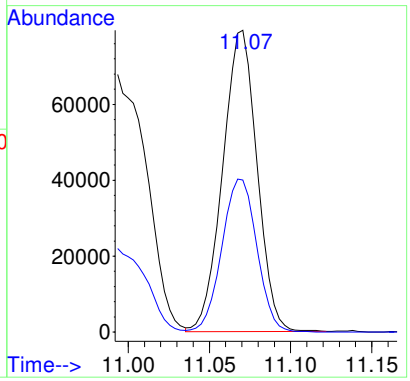


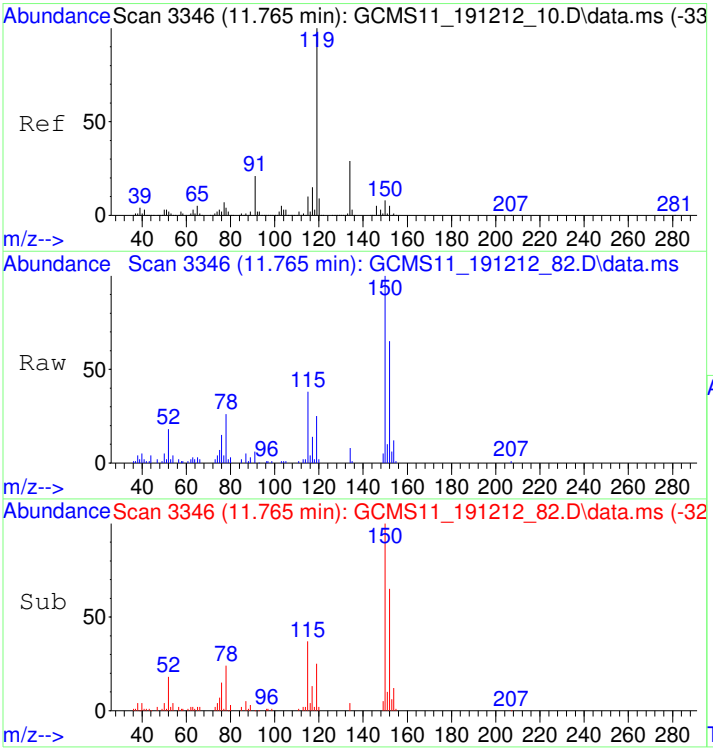


#60
1,3,5-Trimethylbenzene
Concen: 108.87 ng
RT: 11.07 min Scan# 3130
Delta R.T. 0.000 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion:105 Resp: 117039

Ion	Ratio	Lower	Upper
105	100		
120	51.7	22.4	82.4

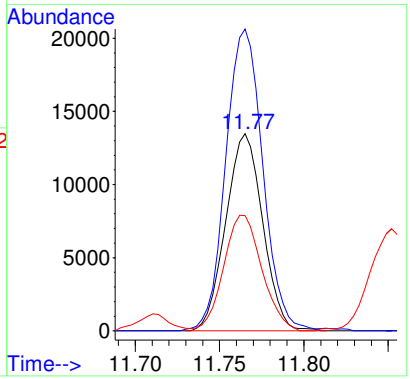


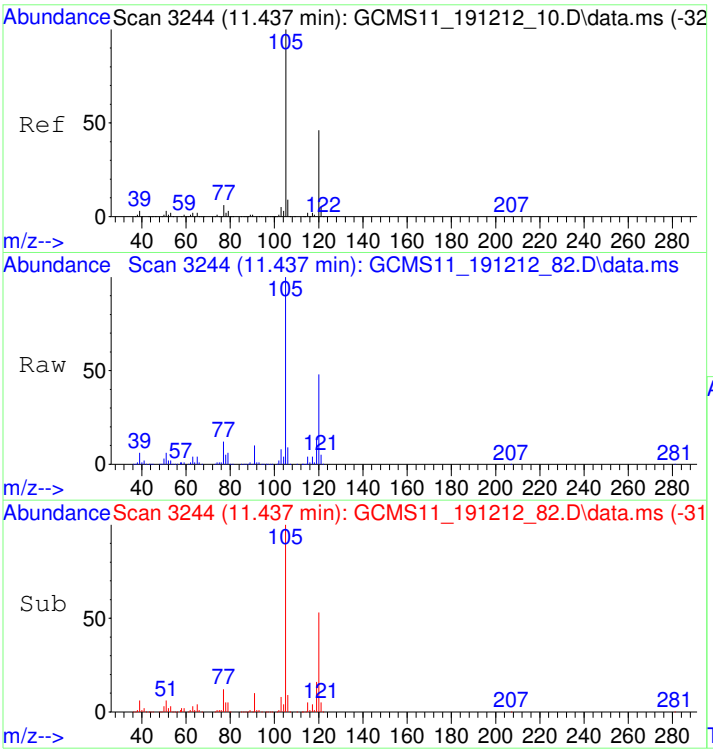


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion:152 Resp: 20503

Ion	Ratio	Lower	Upper
152	100		
150	154.5	162.5	222.5#
115	60.5	82.3	142.3#

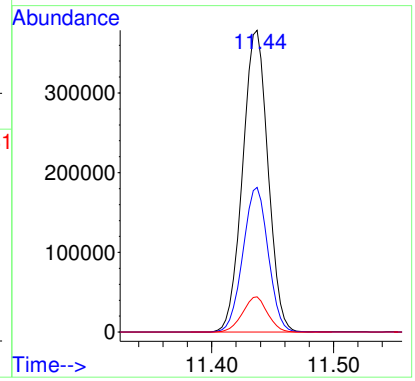


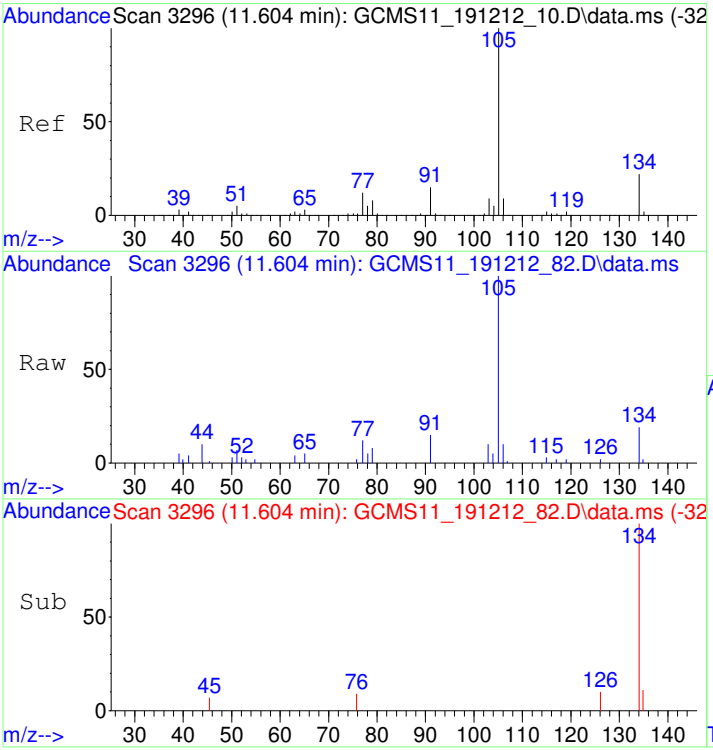


#65
1,2,4-Trimethylbenzene
Concen: 496.12 ng
RT: 11.44 min Scan# 3244
Delta R.T. 0.000 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion:105 Resp: 548939

Ion	Ratio	Lower	Upper
105	100		
120	47.8	18.6	78.6
77	11.5	0.0	41.4

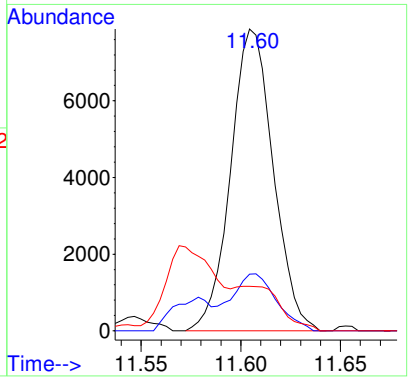


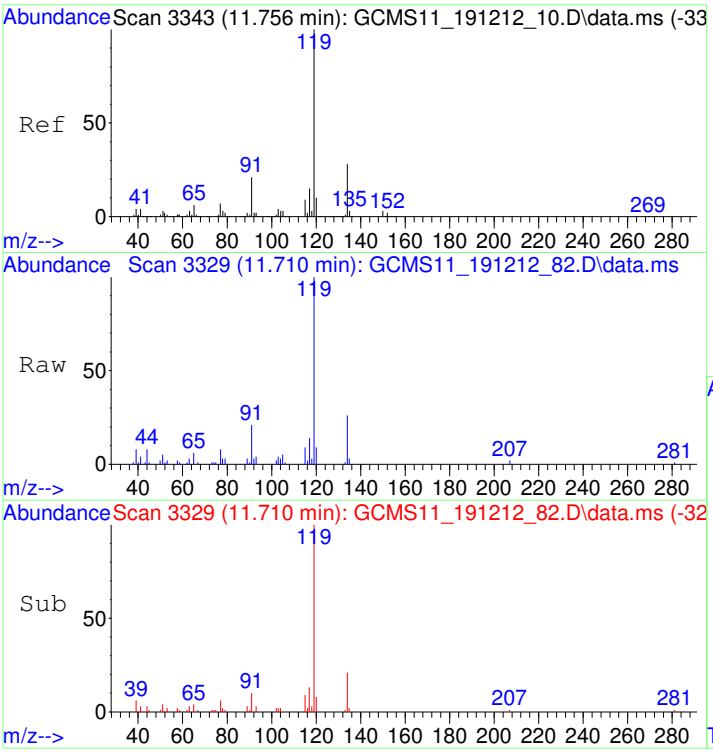


#66
sec-Butylbenzene
Concen: 8.64 ng
RT: 11.60 min Scan# 3296
Delta R.T. -0.003 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion:105 Resp: 11724

Ion	Ratio	Lower	Upper
105	100		
134	19.4	0.0	52.3
91	0.0	0.0	45.3

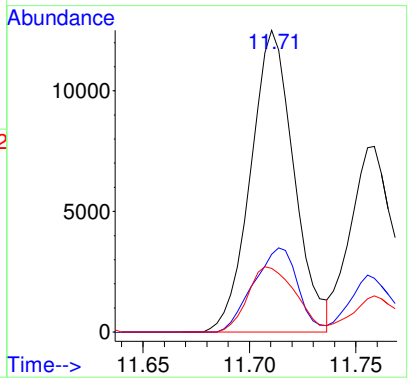


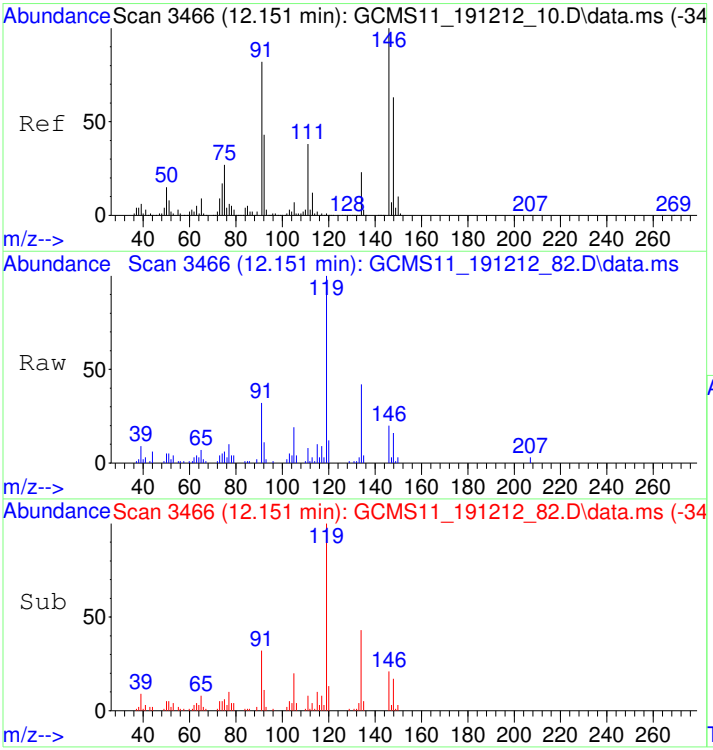


#68
p-Isopropyltoluene
Concen: 14.91 ng m
RT: 11.71 min Scan# 3329
Delta R.T. -0.048 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion:119 Resp: 17720

Ion	Ratio	Lower	Upper
119	100		
134	17.8	0.0	57.5
91	13.5	0.0	51.3

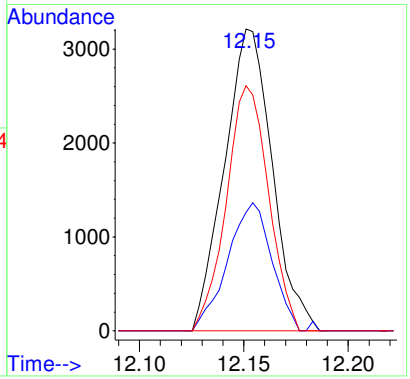


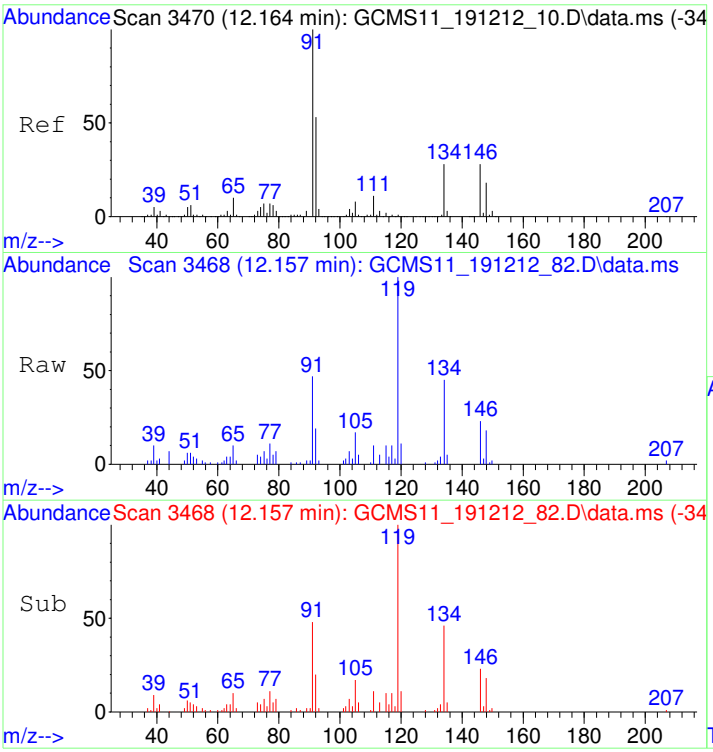


#70
1,2-Dichlorobenzene
Concen: 7.49 ng
RT: 12.15 min Scan# 3466
Delta R.T. 0.000 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion:146 Resp: 5125

Ion	Ratio	Lower	Upper
146	100		
111	39.3	8.4	68.4
148	71.7	34.6	94.6

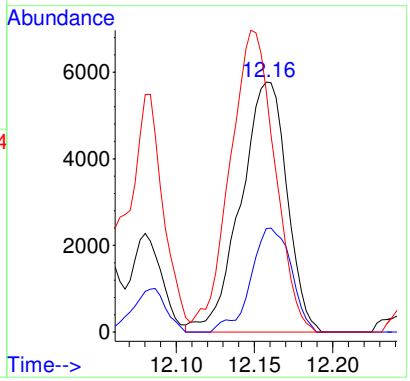


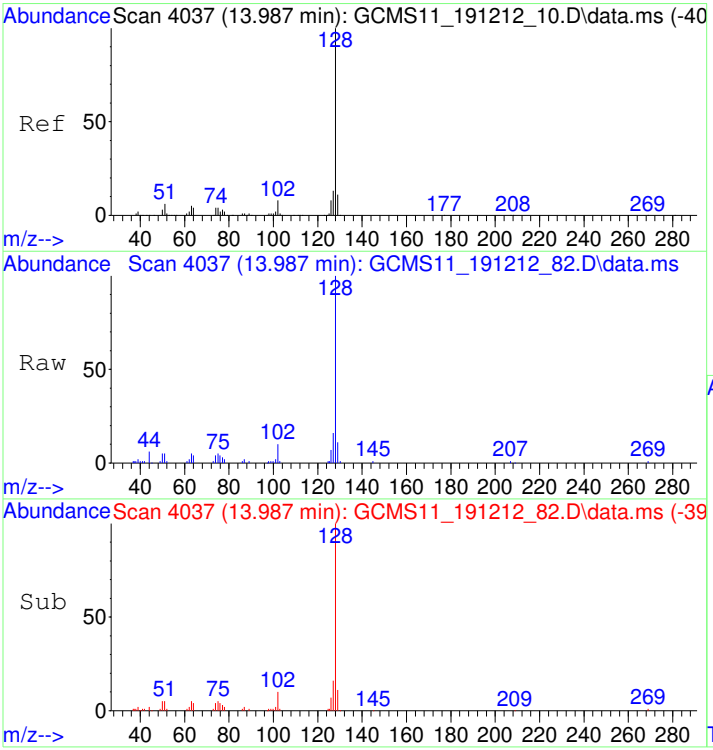


#71
n-Butylbenzene
Concen: 11.21 ng
RT: 12.16 min Scan# 3468
Delta R.T. -0.003 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

Tgt Ion: 91 Resp: 11852

Ion	Ratio	Lower	Upper
91	100		
92	36.2	22.0	82.0
134	116.6	0.0	58.4#

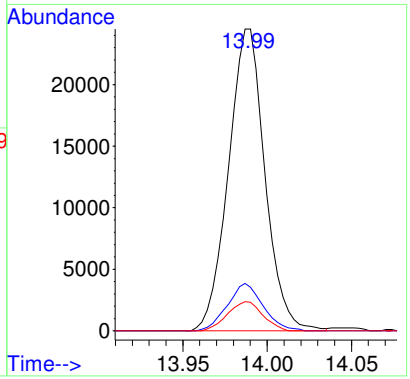




#75
Naphthalene
Concen: 31.18 ng
RT: 13.99 min Scan# 4037
Delta R.T. -0.000 min
Lab File: GCMS11_191212_82.D
Acq: 14 Dec 2019 4:27 am

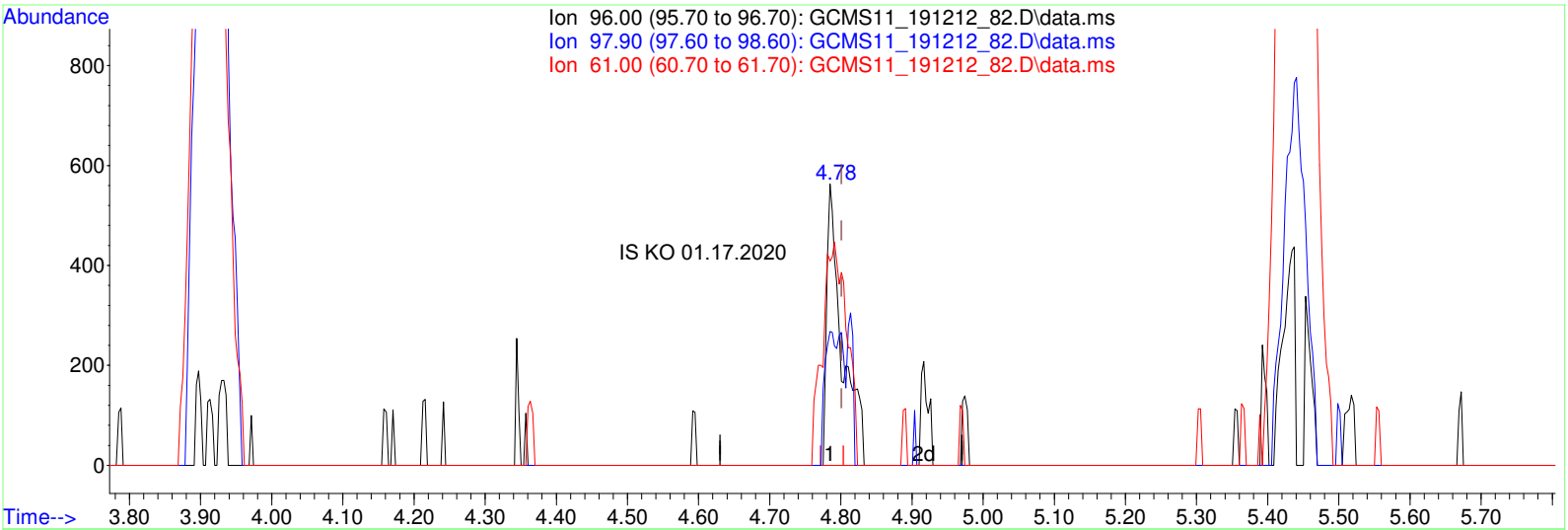
Tgt Ion:128 Resp: 36861

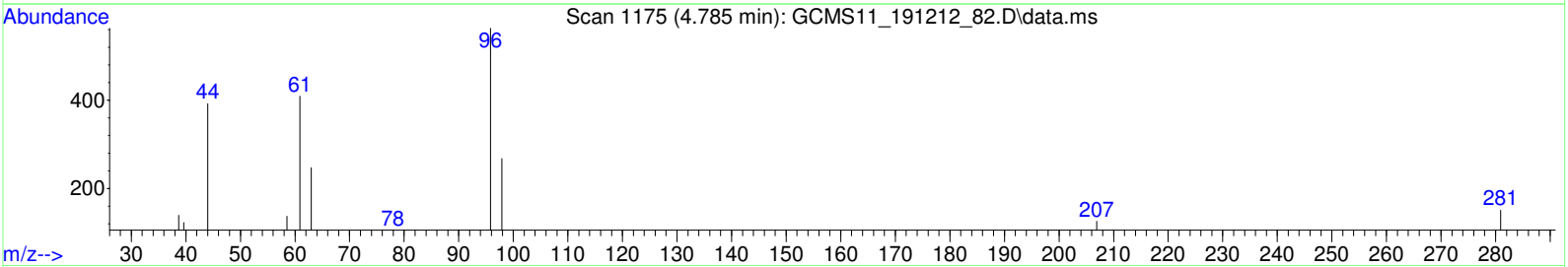
Ion	Ratio	Lower	Upper
128	100		
127	15.3	0.0	43.5
102	9.3	0.0	37.4

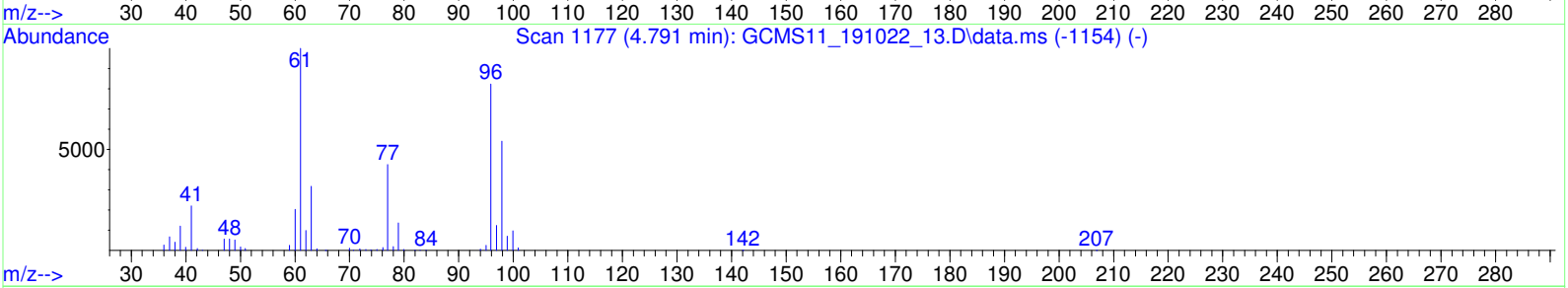


Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_82.D
Acq On : 14 Dec 2019 4:27 am
Operator : ko
Sample : 1912009-05RE1
Misc : LIMS 19L1101, 5X DILUTION
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Dec 16 12:09:33 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_191212_82.D\data.ms

(18) cis-1,2-Dichloroethene (M)

4.785min (-0.016) 2.69 ng m

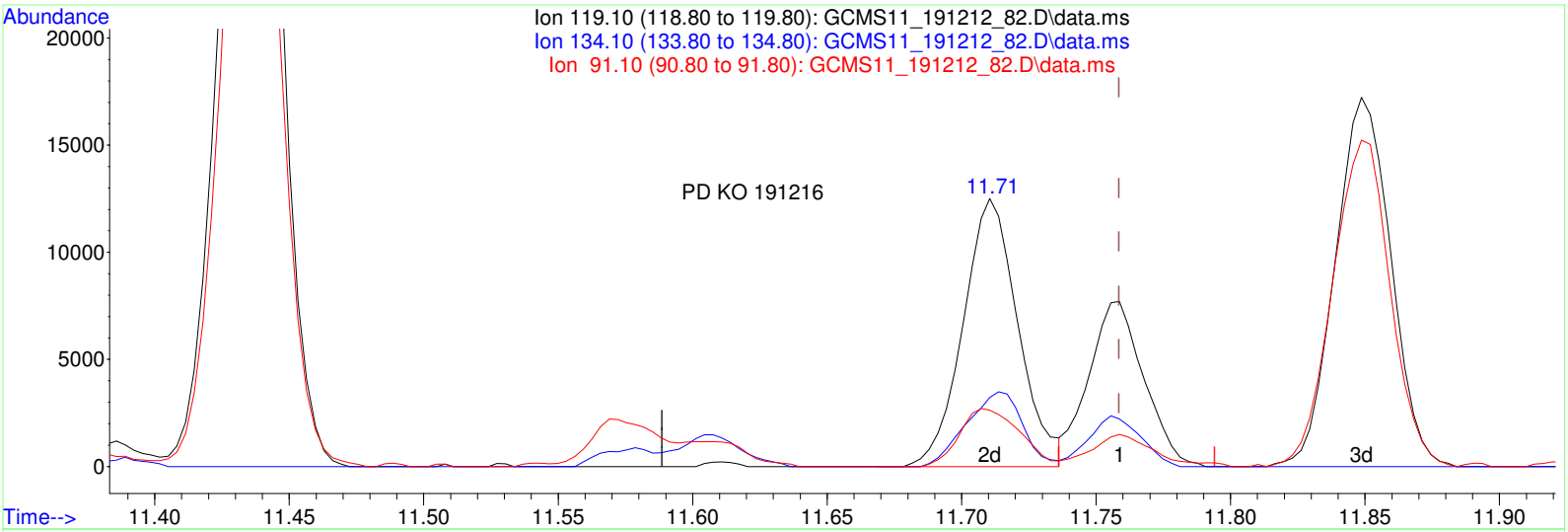
response 835

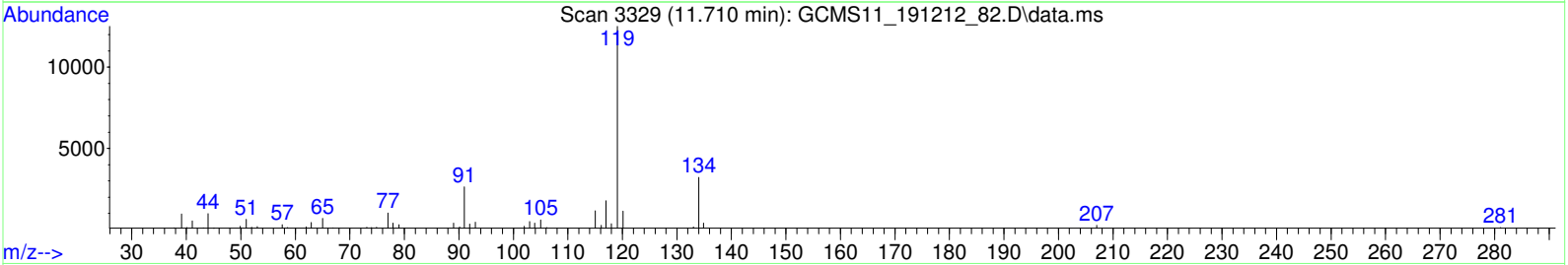
Ion	Exp%	Act%
96.00	100.00	100.00
97.90	60.60	37.25
61.00	126.60	127.90
0.00	0.00	0.00

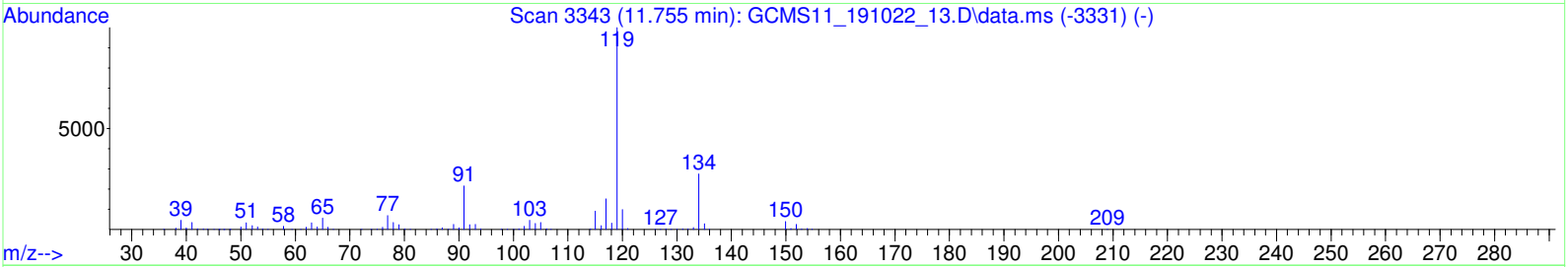
Quantitation Report (Qedit)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_82.D
Acq On : 14 Dec 2019 4:27 am
Operator : ko
Sample : 1912009-05RE1
Misc : LIMS 19L1101, 5X DILUTION
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Dec 16 12:09:33 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_191212_82.D\data.ms

(68) p-Isopropyltoluene (M)

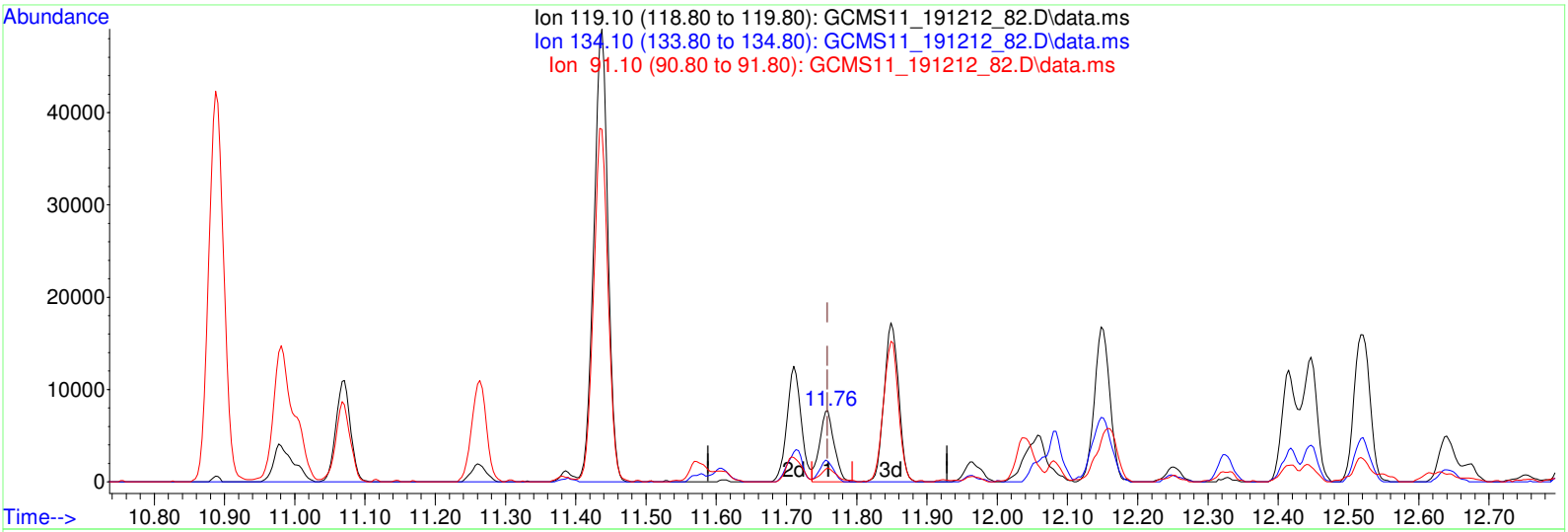
11.710min (-0.048) 14.91 ng m

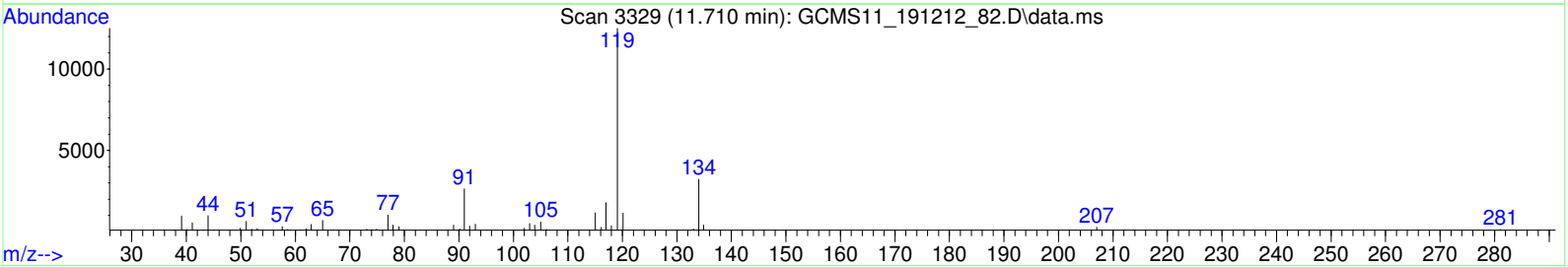
response 17720

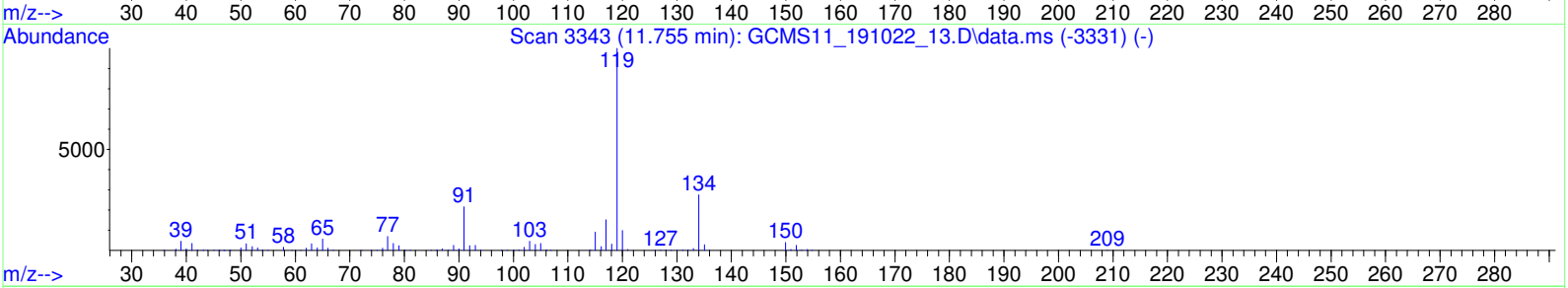
Ion	Exp%	Act%
119.10	100.00	100.00
134.10	27.50	17.80
91.10	21.30	13.52
0.00	0.00	0.00

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_82.D
Acq On : 14 Dec 2019 4:27 am
Operator : ko
Sample : 1912009-05RE1
Misc : LIMS 19L1101, 5X DILUTION
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Dec 16 12:09:33 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_191212_82.D\data.ms

(68) p-Isopropyltoluene (M)

11.759min (+ 0.000) 9.21 ng

response 10944

Ion	Exp%	Act%
119.10	100.00	100.00
134.10	27.50	28.82
91.10	21.30	21.88
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_75.D
Acq On : 14 Dec 2019 1:03 am
Operator : ko
Sample : 1912009-06RE1
Misc : LIMS 19L1101
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Dec 16 14:07:58 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

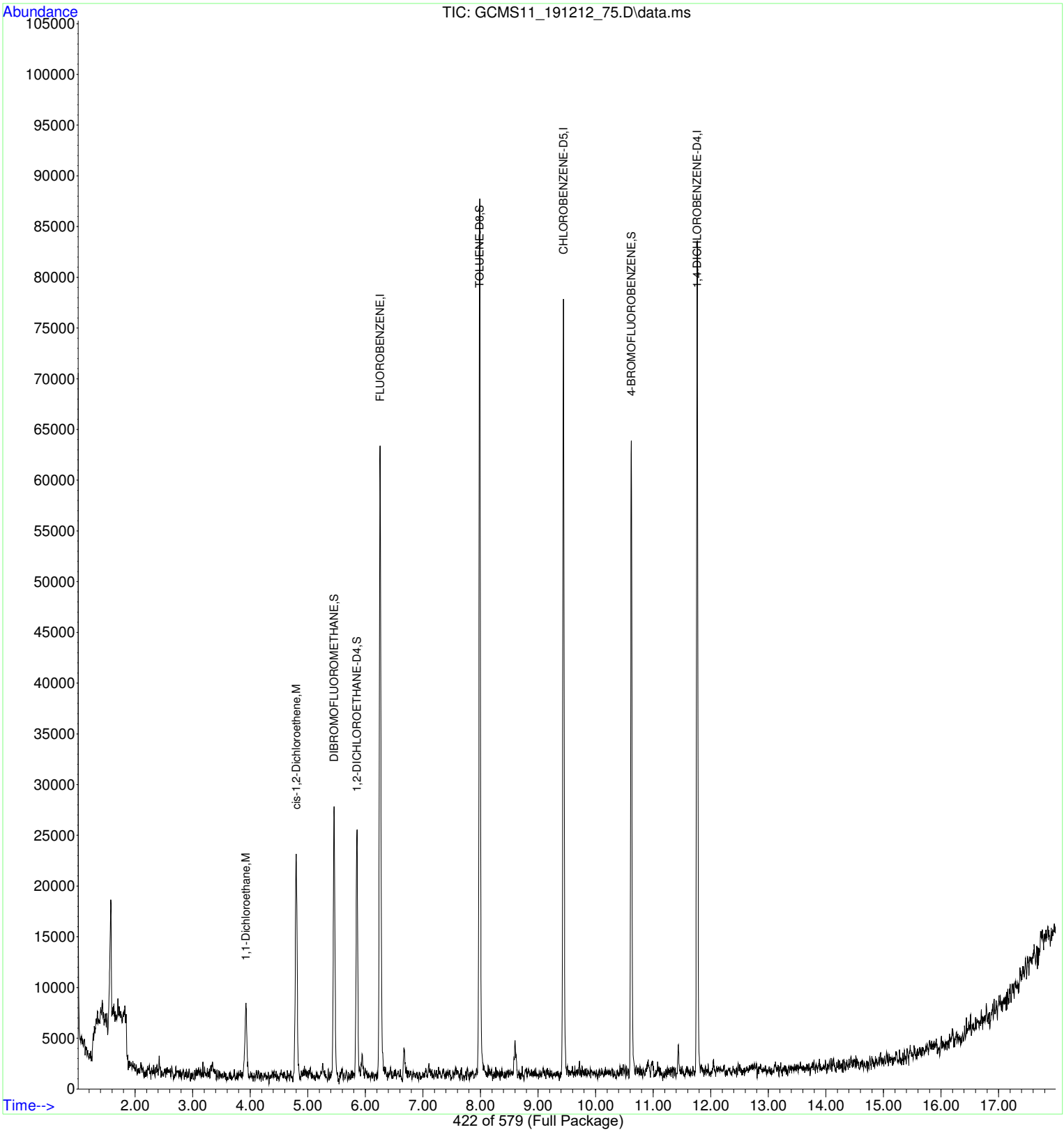
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) FLUOROBENZENE	6.26	96	57446	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	21200	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	20571	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.46	113	14279	47.33 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	17006	47.30 ng	0.00
37) TOLUENE-D8	7.98	98	55393	49.03 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	18172	47.28 ng	0.00
Target Compounds					Qvalue
16) 1,1-Dichloroethane	3.92	63	7941	14.31 ng	92
18) cis-1,2-Dichloroethene	4.80	96	11948	32.94 ng	89

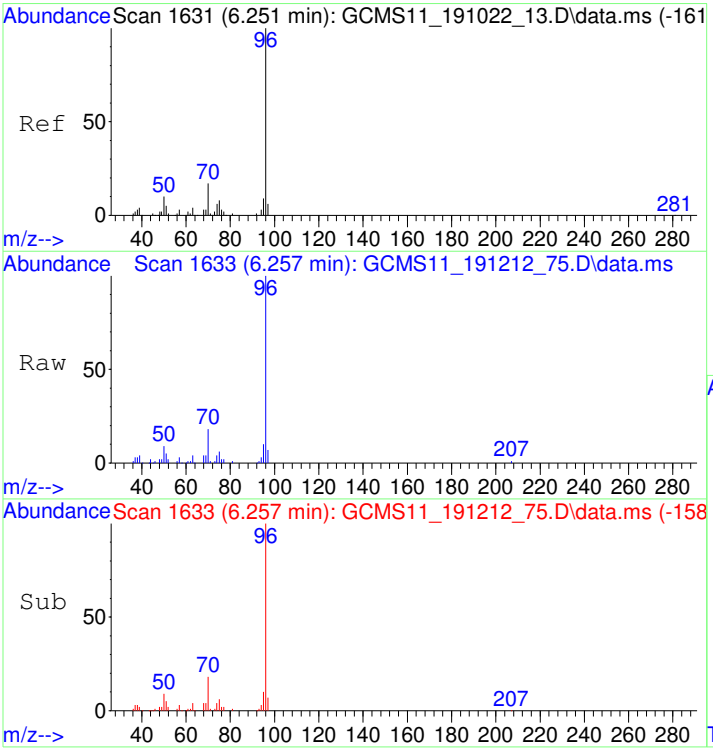
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_75.D
Acq On : 14 Dec 2019 1:03 am
Operator : ko
Sample : 1912009-06RE1
Misc : LIMS 19L1101
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Dec 16 14:07:58 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

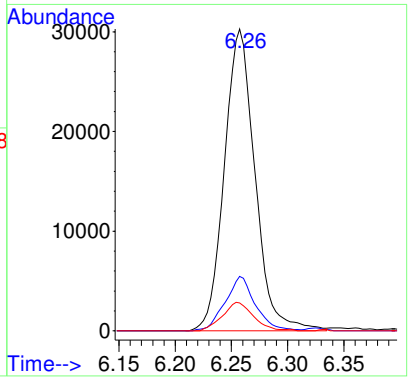


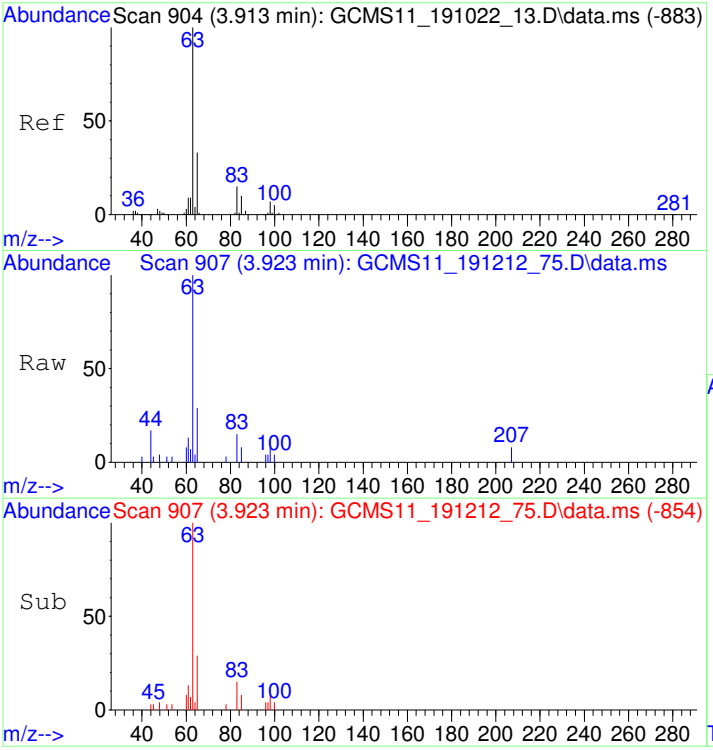


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.26 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191212_75.D
Acq: 14 Dec 2019 1:03 am

Tgt Ion: 96 Resp: 57446

Ion	Ratio	Lower	Upper
96	100		
70	17.8	0.0	48.3
50	9.4	0.0	39.5

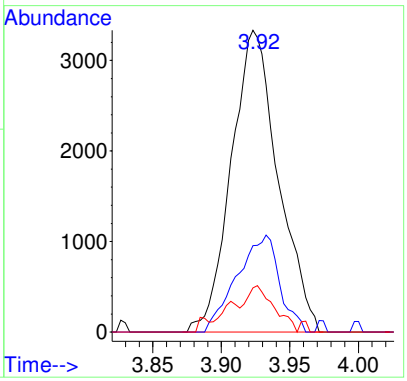


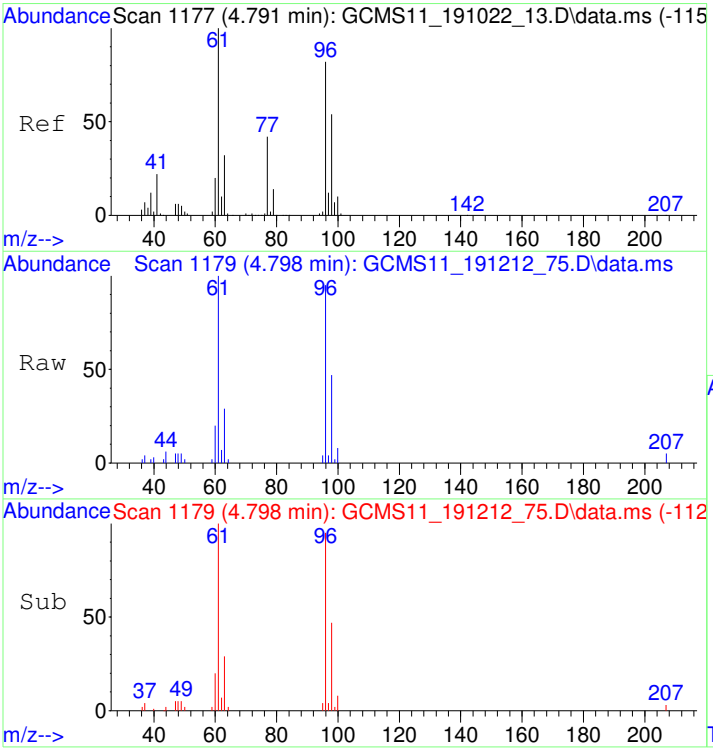


#16
1,1-Dichloroethane
Concen: 14.31 ng
RT: 3.92 min Scan# 907
Delta R.T. 0.000 min
Lab File: GCMS11_191212_75.D
Acq: 14 Dec 2019 1:03 am

Tgt Ion: 63 Resp: 7941

Ion	Ratio	Lower	Upper
63	100		
65	29.1	2.8	62.8
83	9.1	0.0	44.3

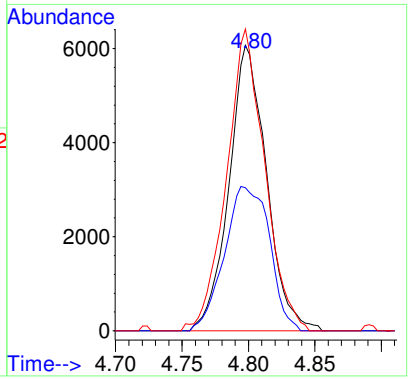


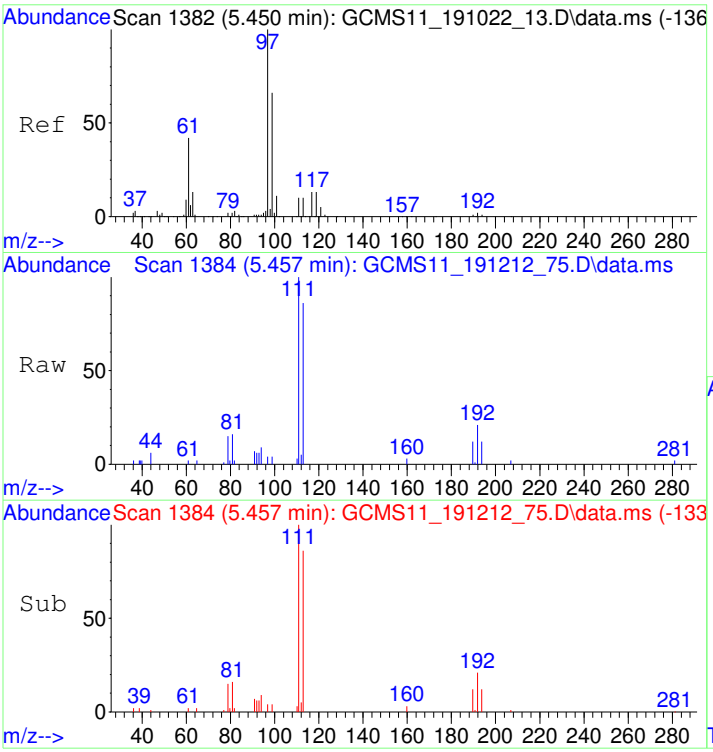


#18
cis-1,2-Dichloroethene
Concen: 32.94 ng
RT: 4.80 min Scan# 1179
Delta R.T. -0.003 min
Lab File: GCMS11_191212_75.D
Acq: 14 Dec 2019 1:03 am

Tgt Ion: 96 Resp: 11948

Ion	Ratio	Lower	Upper
96	100		
98	60.5	30.6	90.6
61	107.5	96.6	156.6

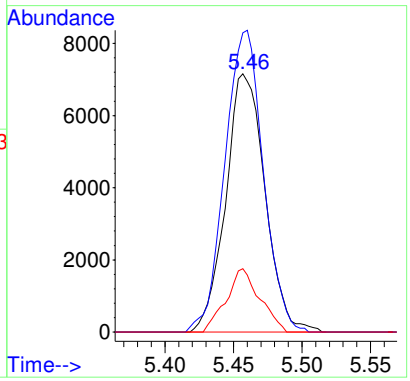


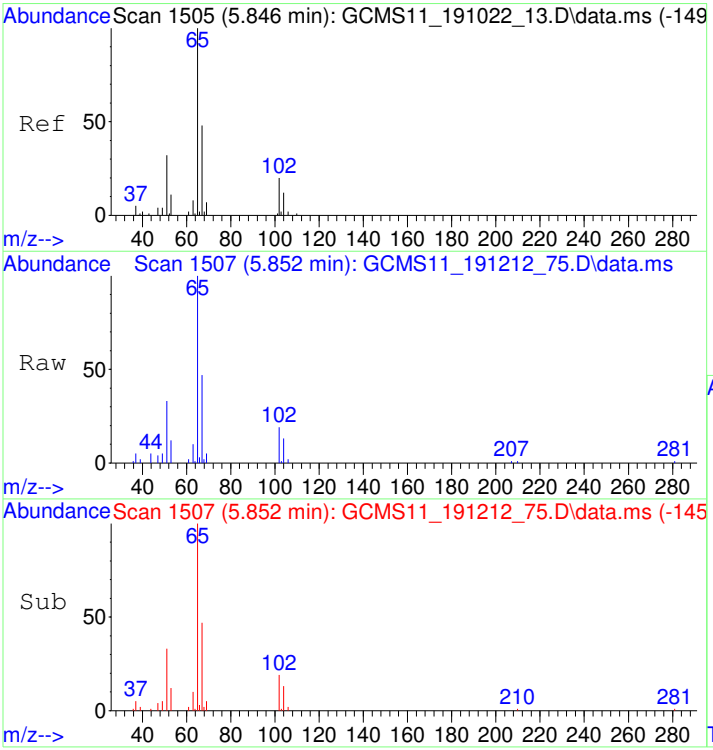


#22
DIBROMOFLUOROMETHANE
Concen: 47.33 ng
RT: 5.46 min Scan# 1384
Delta R.T. -0.003 min
Lab File: GCMS11_191212_75.D
Acq: 14 Dec 2019 1:03 am

Tgt Ion:113 Resp: 14279

Ion	Ratio	Lower	Upper
113	100		
111	114.1	75.2	135.2
192	21.0	0.0	52.1

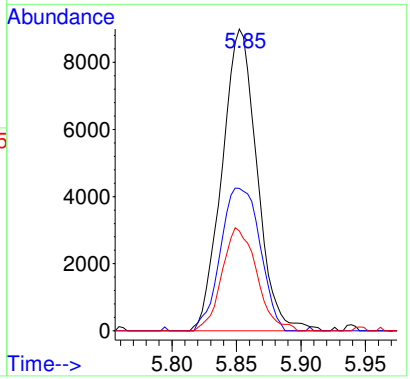


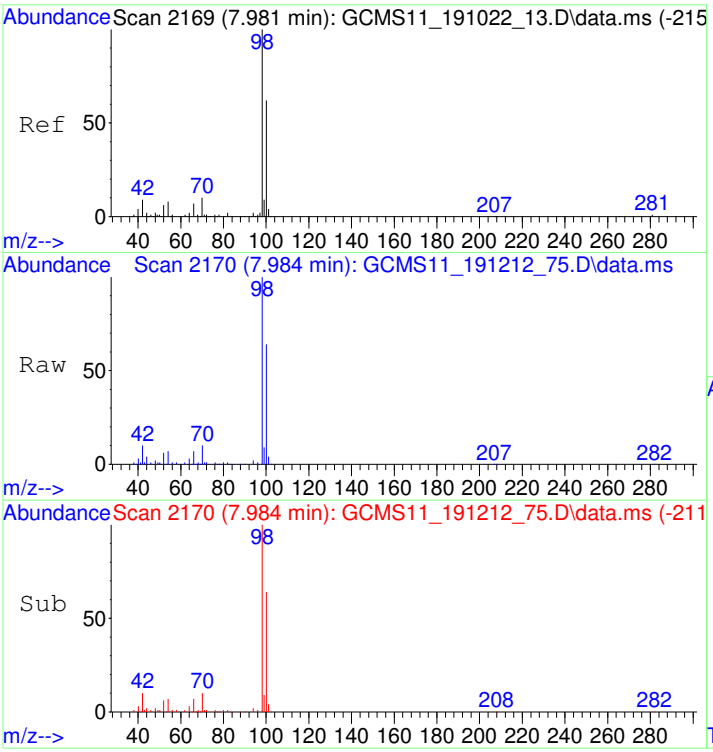


#26
1,2-DICHLOROETHANE-D4
Concen: 47.30 ng
RT: 5.85 min Scan# 1507
Delta R.T. 0.000 min
Lab File: GCMS11_191212_75.D
Acq: 14 Dec 2019 1:03 am

Tgt Ion: 65 Resp: 17006

Ion	Ratio	Lower	Upper
65	100		
67	53.2	15.4	75.4
51	33.8	2.7	62.7

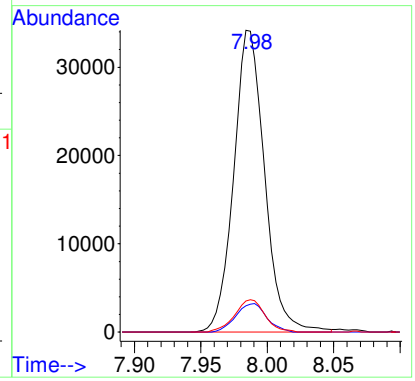


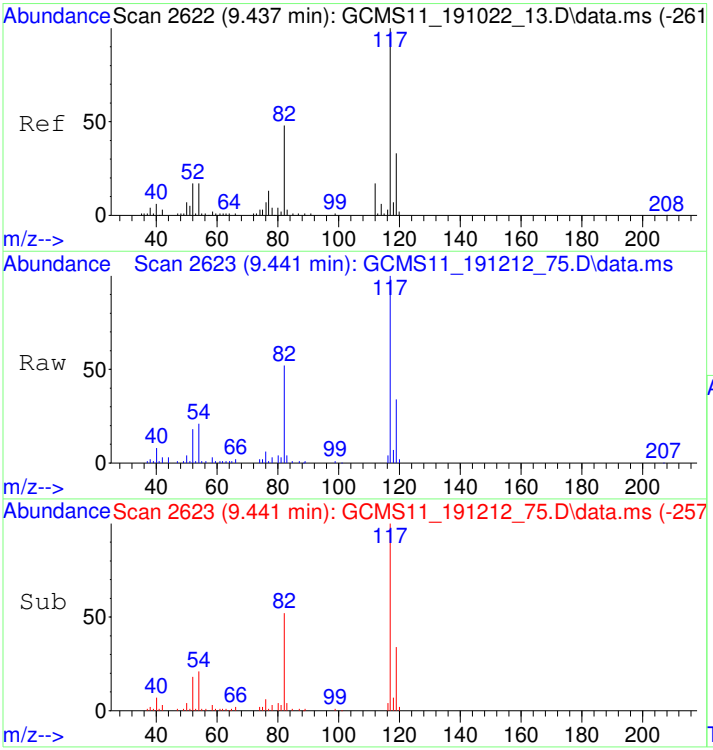


#37
TOLUENE-D8
Concen: 49.03 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191212_75.D
Acq: 14 Dec 2019 1:03 am

Tgt Ion: 98 Resp: 55393

Ion	Ratio	Lower	Upper
98	100		
99	9.4	0.0	39.8
70	10.5	0.0	40.7

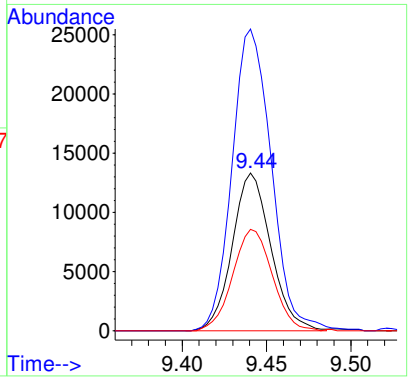


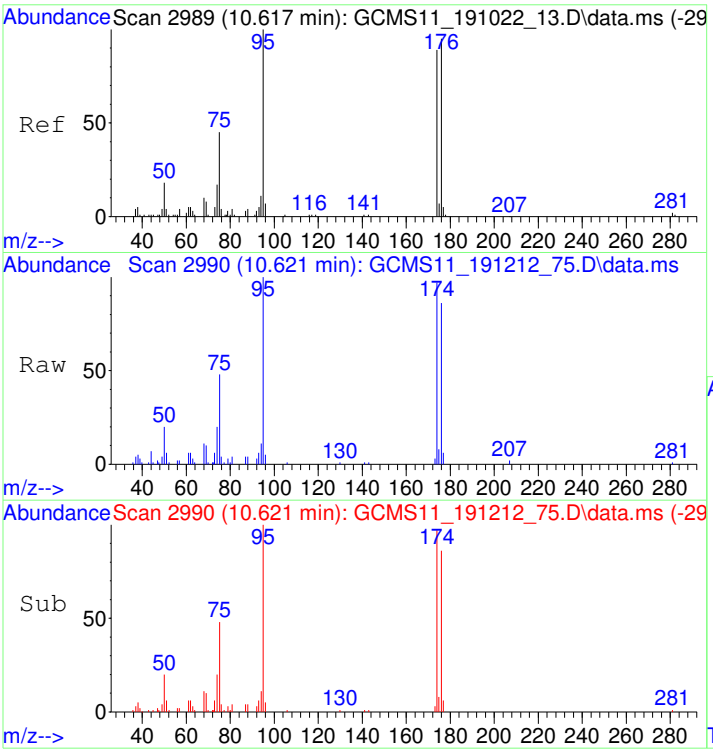


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.001 min
Lab File: GCMS11_191212_75.D
Acq: 14 Dec 2019 1:03 am

Tgt Ion: 82 Resp: 21200

Ion	Ratio	Lower	Upper
82	100		
117	194.7	160.7	220.7
119	65.8	33.5	93.5

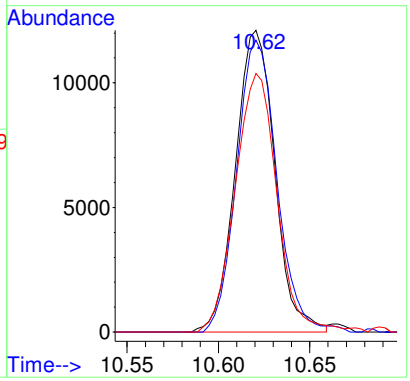


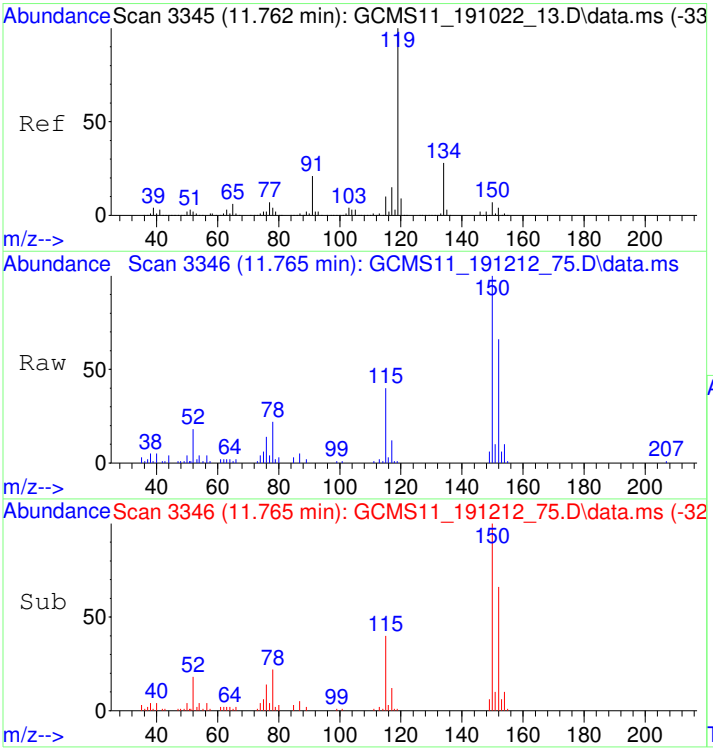


#55
4-BROMOFLUOROBENZENE
Concen: 47.28 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191212_75.D
Acq: 14 Dec 2019 1:03 am

Tgt Ion: 95 Resp: 18172

Ion	Ratio	Lower	Upper
95	100		
174	98.8	68.5	128.5
176	91.0	66.8	126.8

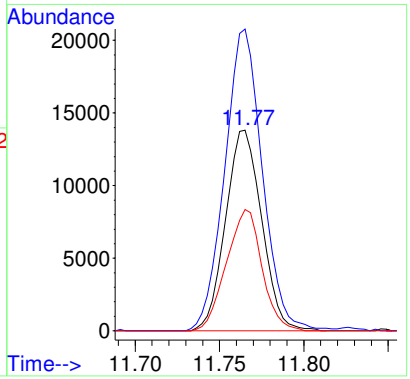




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_75.D
Acq: 14 Dec 2019 1:03 am

Tgt Ion:152 Resp: 20571

Ion	Ratio	Lower	Upper
152	100		
150	156.7	162.5	222.5#
115	59.3	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_73.D
Acq On : 14 Dec 2019 12:06 am
Operator : ko
Sample : 1912009-07RE1
Misc : LIMS 19L1101
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 16 12:08:28 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

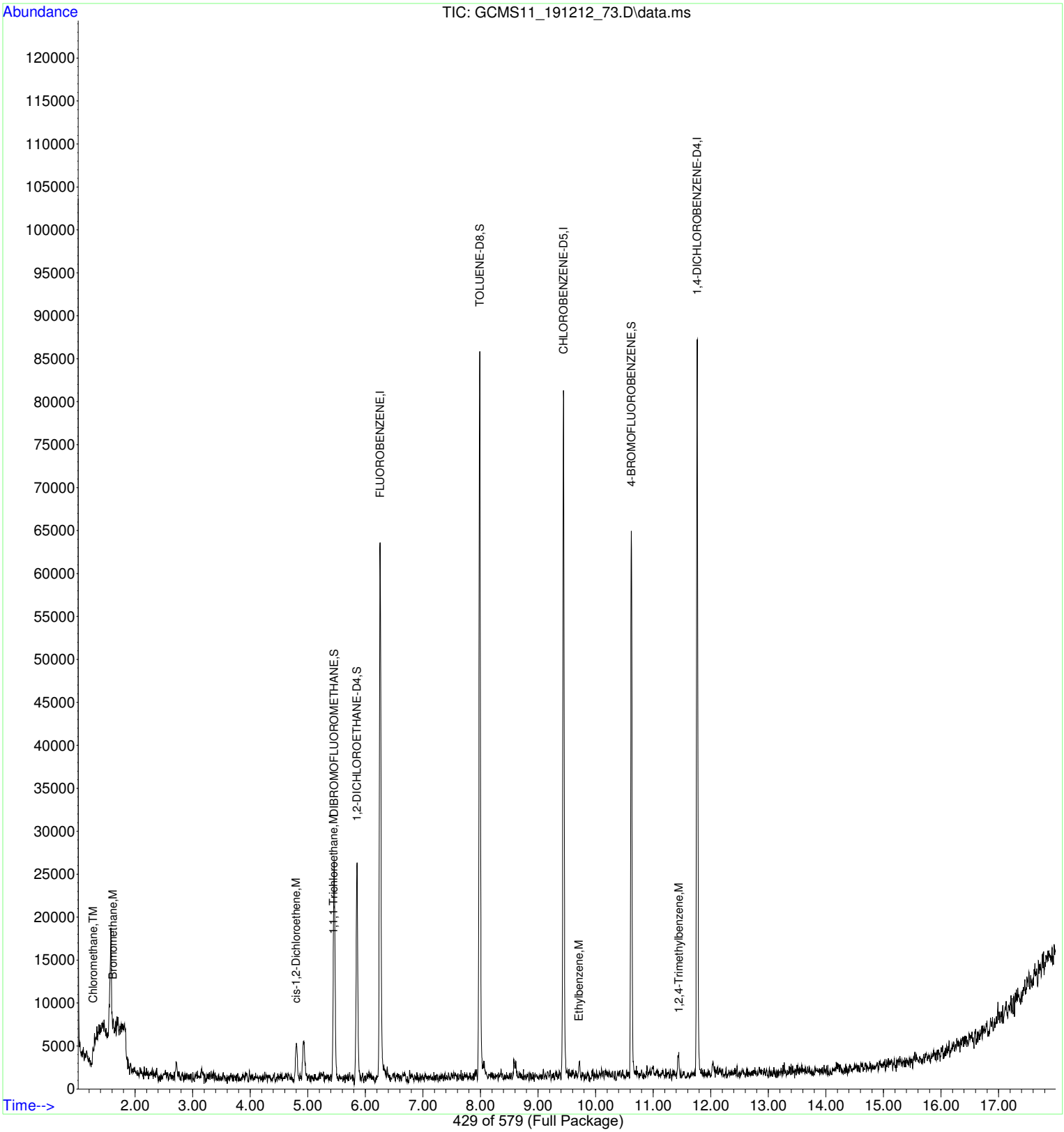
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.26	96	57738	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	20882	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	21761	50.00	ng	#	0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.46	113	14800	48.81	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	17081	47.26	ng		0.00
37) TOLUENE-D8	7.99	98	55950	49.27	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	19915	52.60	ng		0.00
Target Compounds							Qvalue
3) Chloromethane	1.27	50	451	1.84	ng		95
5) Bromomethane	1.61	96	351	1.35	ng	#	66
18) cis-1,2-Dichloroethene	4.79	96	2186	6.00	ng		87
23) 1,1,1-Trichloroethane	5.44	97	862	1.70	ng		84
49) Ethylbenzene	9.71	106	515	1.11	ng	#	1
65) 1,2,4-Trimethylbenzene	11.44	105	1558	1.33	ng		95

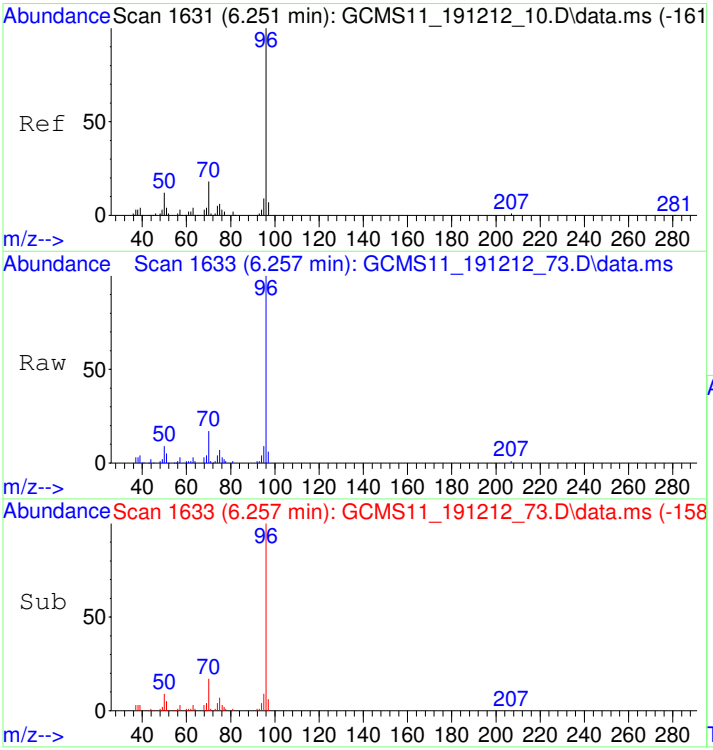
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_73.D
Acq On : 14 Dec 2019 12:06 am
Operator : ko
Sample : 1912009-07RE1
Misc : LIMS 19L1101
ALS Vial : 57 Sample Multiplier: 1

Quant Time: Dec 16 12:08:28 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

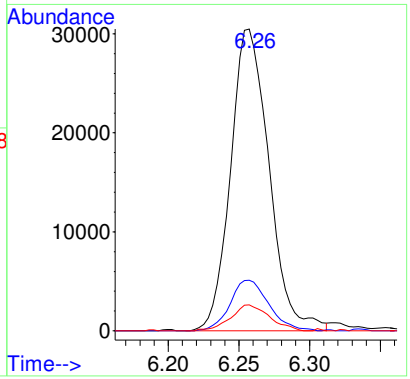


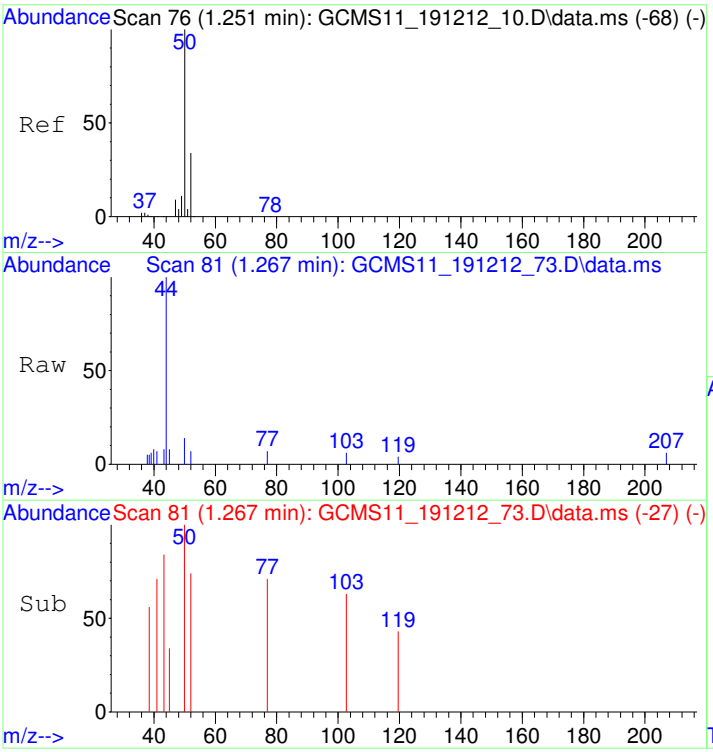


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.26 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191212_73.D
Acq: 14 Dec 2019 12:06 am

Tgt Ion: 96 Resp: 57738

Ion	Ratio	Lower	Upper
96	100		
70	16.9	0.0	48.3
50	8.7	0.0	39.5

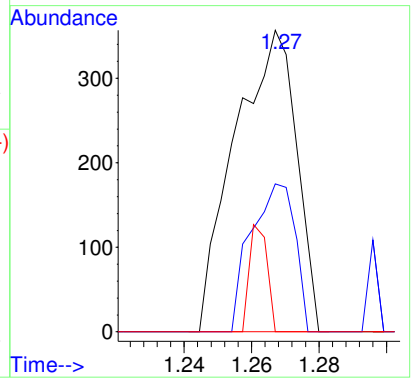


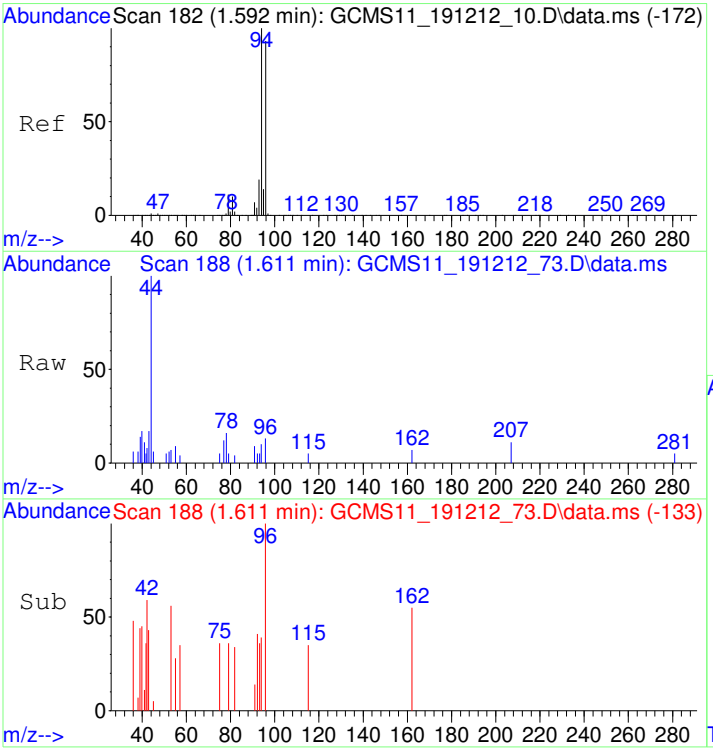


#3
Chloromethane
Concen: 1.84 ng
RT: 1.27 min Scan# 81
Delta R.T. 0.003 min
Lab File: GCMS11_191212_73.D
Acq: 14 Dec 2019 12:06 am

Tgt Ion: 50 Resp: 451

Ion	Ratio	Lower	Upper
50	100		
52	35.3	2.0	62.0
49	10.2	0.0	40.7

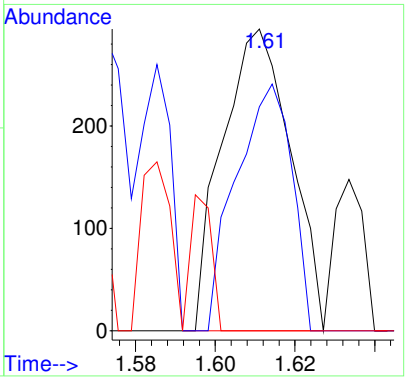


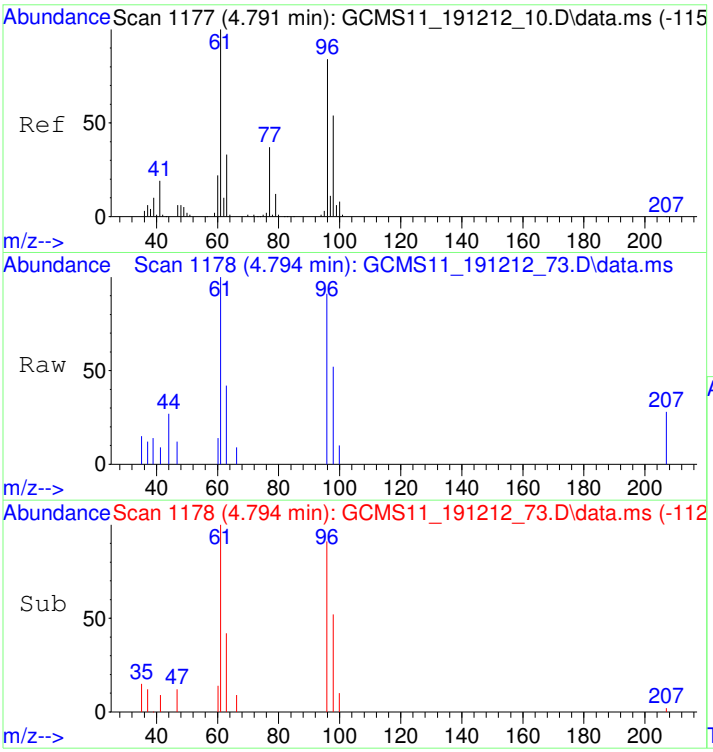


#5
Bromomethane
Concen: 1.35 ng
RT: 1.61 min Scan# 188
Delta R.T. 0.006 min
Lab File: GCMS11_191212_73.D
Acq: 14 Dec 2019 12:06 am

Tgt Ion: 96 Resp: 351

Ion	Ratio	Lower	Upper
96	100		
94	66.7	74.8	134.8#
81	14.0	0.0	42.0

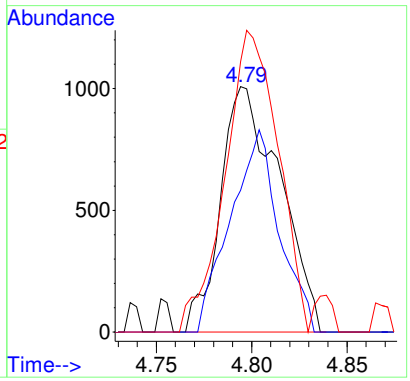


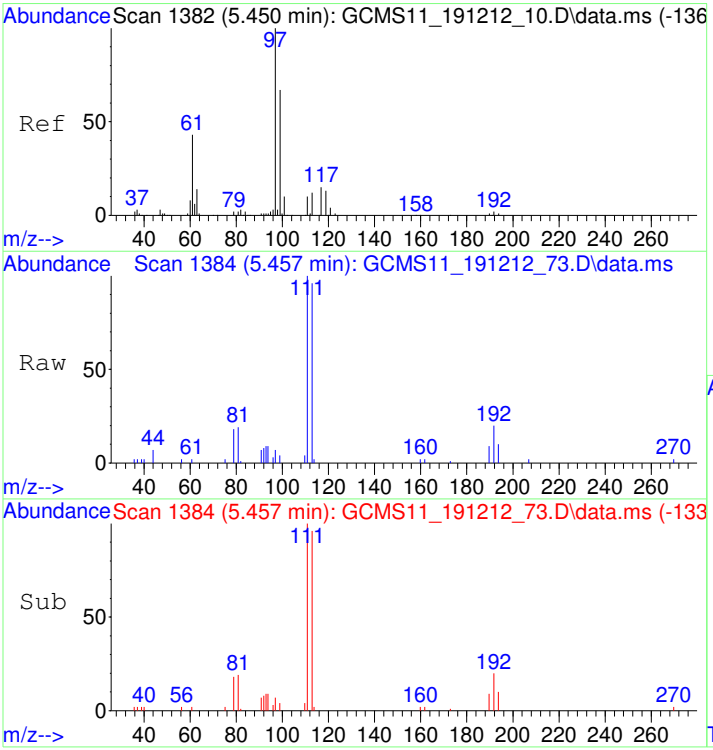


#18
cis-1,2-Dichloroethene
Concen: 6.00 ng
RT: 4.79 min Scan# 1178
Delta R.T. -0.006 min
Lab File: GCMS11_191212_73.D
Acq: 14 Dec 2019 12:06 am

Tgt Ion: 96 Resp: 2186

Ion	Ratio	Lower	Upper
96	100		
98	67.6	30.6	90.6
61	110.3	96.6	156.6

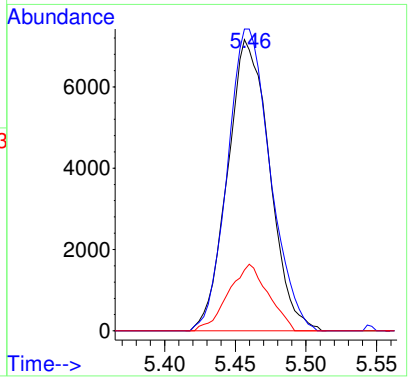


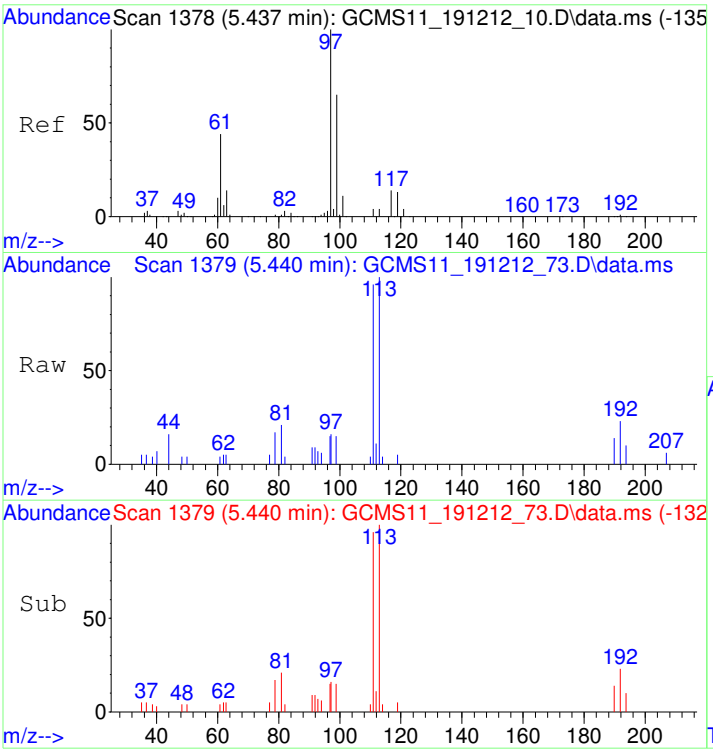


#22
DIBROMOFLUOROMETHANE
Concen: 48.81 ng
RT: 5.46 min Scan# 1384
Delta R.T. -0.003 min
Lab File: GCMS11_191212_73.D
Acq: 14 Dec 2019 12:06 am

Tgt Ion:113 Resp: 14800

Ion	Ratio	Lower	Upper
113	100		
111	105.2	75.2	135.2
192	21.7	0.0	52.1

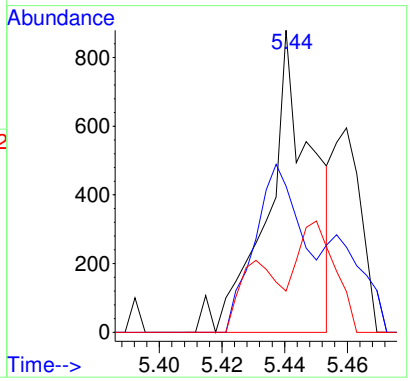


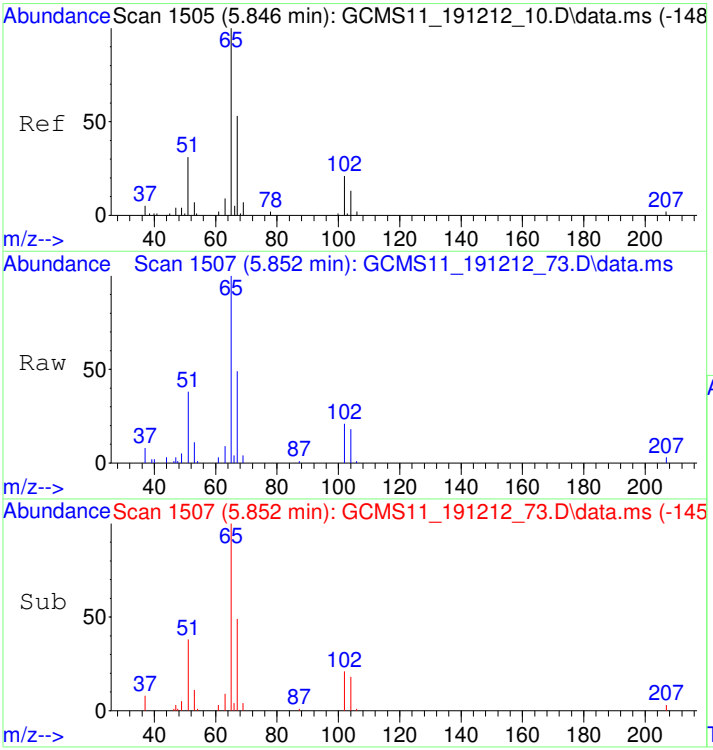


#23
1,1,1-Trichloroethane
Concen: 1.70 ng
RT: 5.44 min Scan# 1379
Delta R.T. -0.003 min
Lab File: GCMS11_191212_73.D
Acq: 14 Dec 2019 12:06 am

Tgt Ion: 97 Resp: 862

Ion	Ratio	Lower	Upper
97	100		
99	60.2	32.7	92.7
61	21.2	13.1	73.1

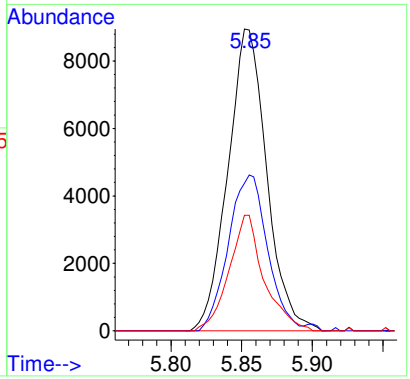


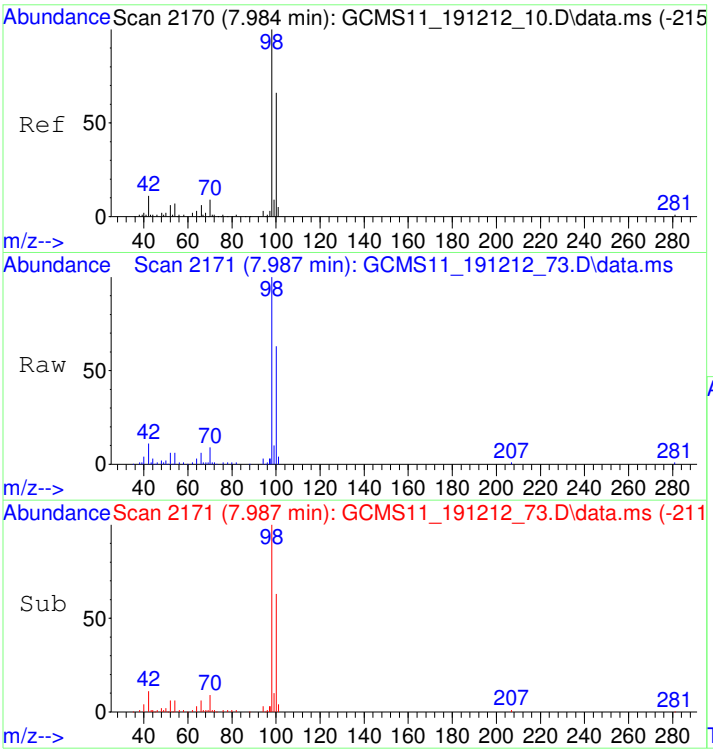


#26
1,2-DICHLOROETHANE-D4
Concen: 47.26 ng
RT: 5.85 min Scan# 1507
Delta R.T. -0.000 min
Lab File: GCMS11_191212_73.D
Acq: 14 Dec 2019 12:06 am

Tgt Ion: 65 Resp: 17081

Ion	Ratio	Lower	Upper
65	100		
67	52.1	15.4	75.4
51	34.5	2.7	62.7

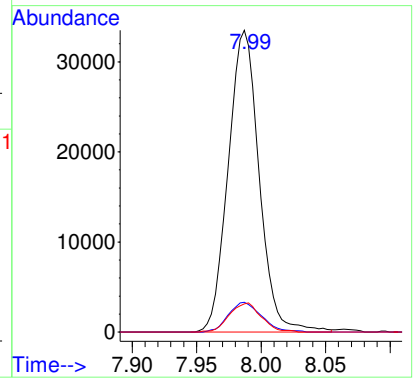


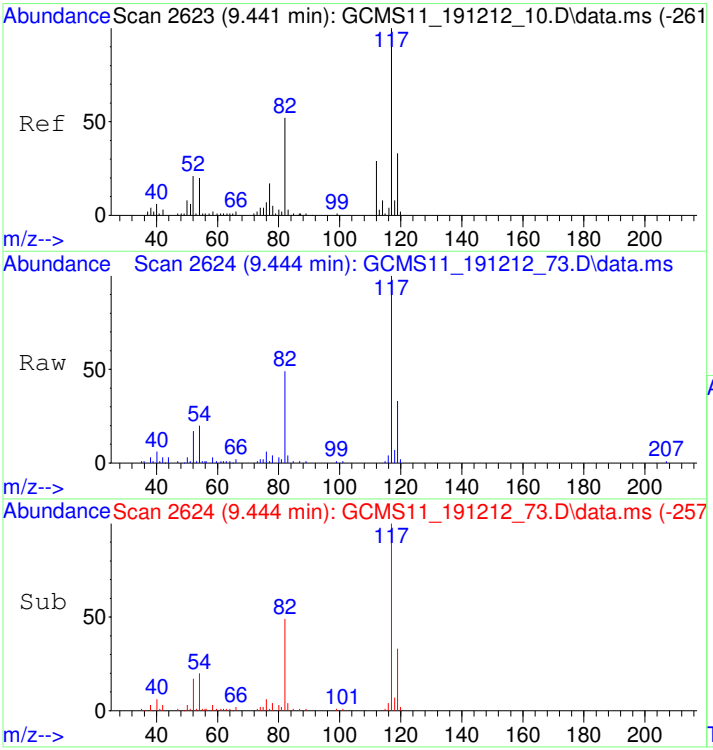


#37
TOLUENE-D8
Concen: 49.27 ng
RT: 7.99 min Scan# 2171
Delta R.T. 0.003 min
Lab File: GCMS11_191212_73.D
Acq: 14 Dec 2019 12:06 am

Tgt Ion: 98 Resp: 55950

Ion	Ratio	Lower	Upper
98	100		
99	10.6	0.0	39.8
70	10.0	0.0	40.7

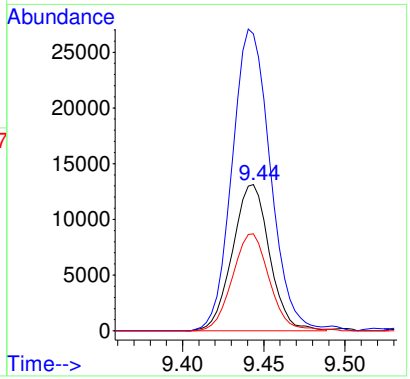


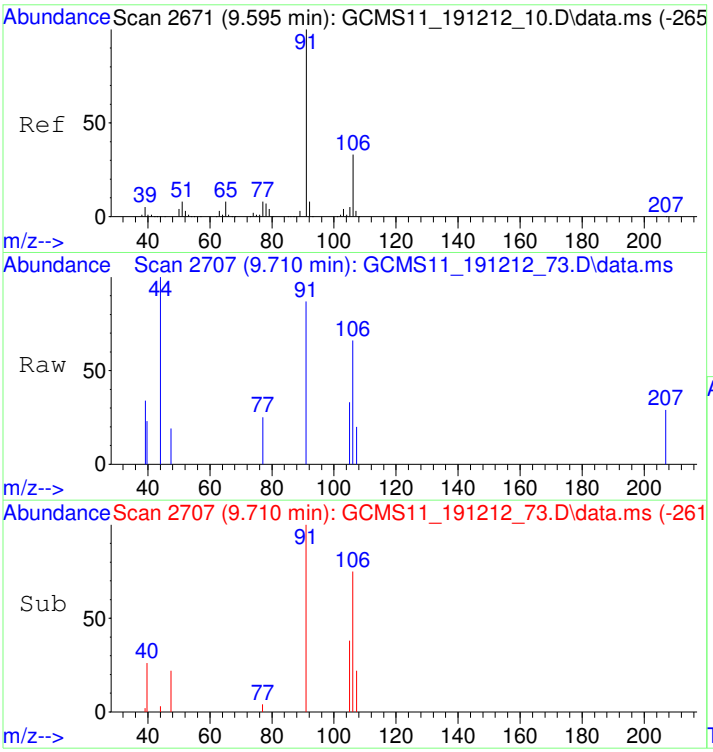


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2624
Delta R.T. 0.004 min
Lab File: GCMS11_191212_73.D
Acq: 14 Dec 2019 12:06 am

Tgt Ion: 82 Resp: 20882

Ion	Ratio	Lower	Upper
82	100		
117	211.8	160.7	220.7
119	66.2	33.5	93.5

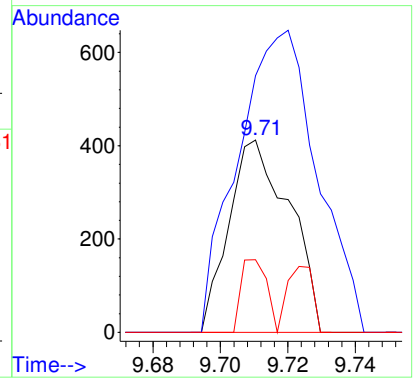


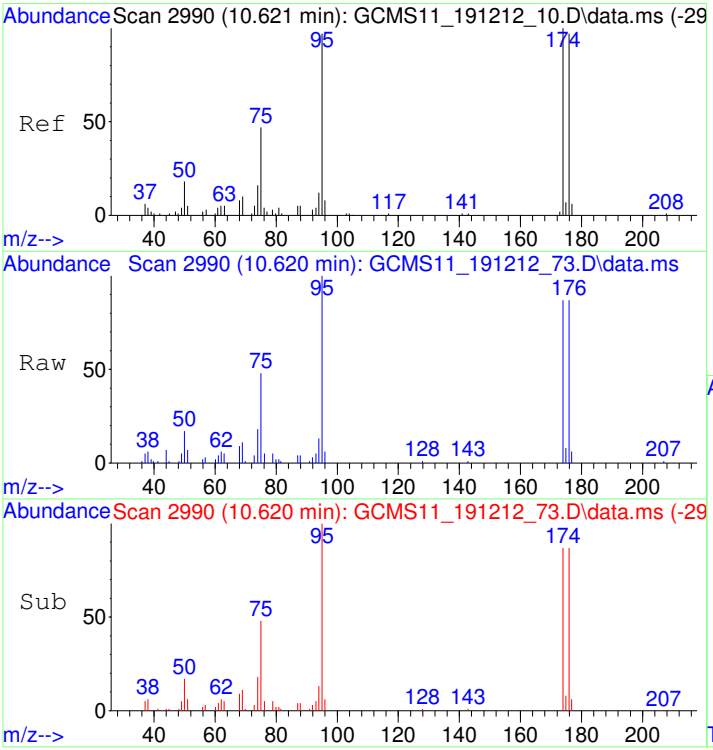


#49
Ethylbenzene
Concen: 1.11 ng
RT: 9.71 min Scan# 2707
Delta R.T. 0.116 min
Lab File: GCMS11_191212_73.D
Acq: 14 Dec 2019 12:06 am

Tgt Ion:106 Resp: 515

Ion	Ratio	Lower	Upper
106	100		
91	0.0	267.1	327.1#
77	15.9	0.0	57.1

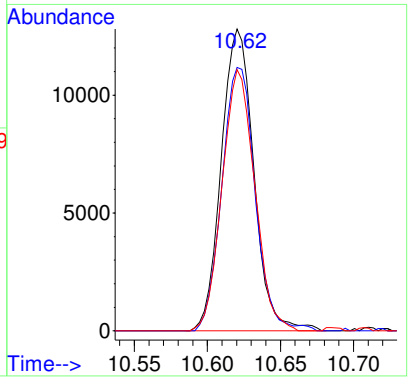


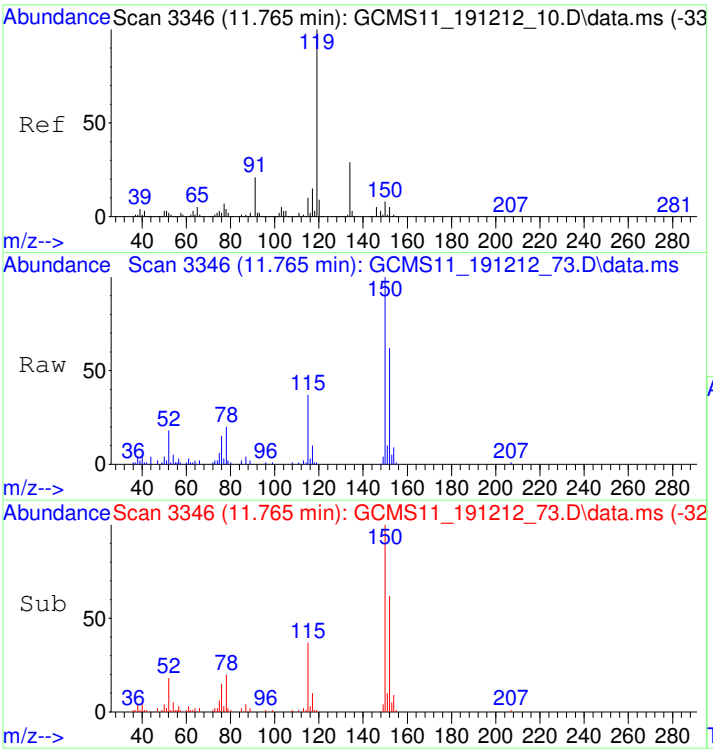


#55
4-BROMOFLUOROBENZENE
Concen: 52.60 ng
RT: 10.62 min Scan# 2990
Delta R.T. -0.000 min
Lab File: GCMS11_191212_73.D
Acq: 14 Dec 2019 12:06 am

Tgt Ion: 95 Resp: 19915

Ion	Ratio	Lower	Upper
95	100		
174	88.9	68.5	128.5
176	86.4	66.8	126.8

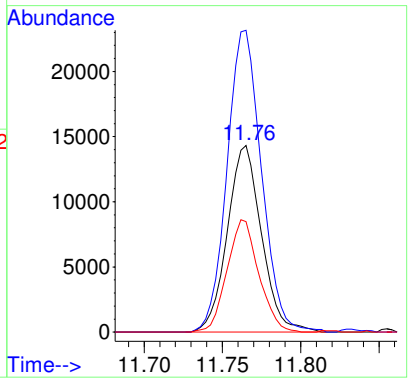


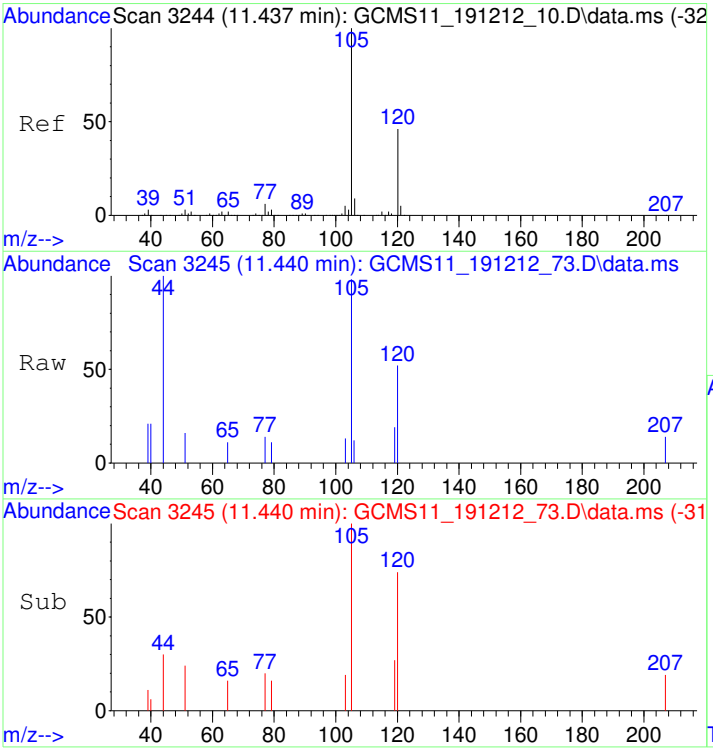


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.76 min Scan# 3346
Delta R.T. -0.000 min
Lab File: GCMS11_191212_73.D
Acq: 14 Dec 2019 12:06 am

Tgt Ion:152 Resp: 21761

Ion	Ratio	Lower	Upper
152	100		
150	163.0	162.5	222.5
115	55.8	82.3	142.3#

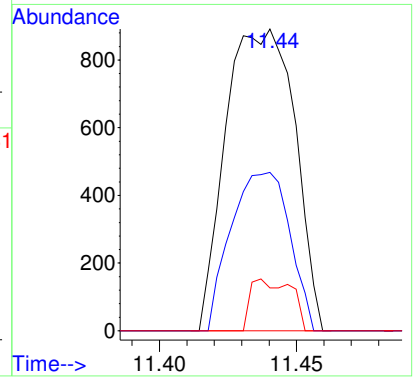




#65
1,2,4-Trimethylbenzene
Concen: 1.33 ng
RT: 11.44 min Scan# 3245
Delta R.T. 0.003 min
Lab File: GCMS11_191212_73.D
Acq: 14 Dec 2019 12:06 am

Tgt Ion:105 Resp: 1558

Ion	Ratio	Lower	Upper
105	100		
120	44.8	18.6	78.6
77	10.0	0.0	41.4



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_90.D
Acq On : 14 Dec 2019 8:20 am
Operator : ko
Sample : 1912009-08RE1
Misc : LIMS 19L1101, 10X DILUTION
ALS Vial : 65 Sample Multiplier: 1

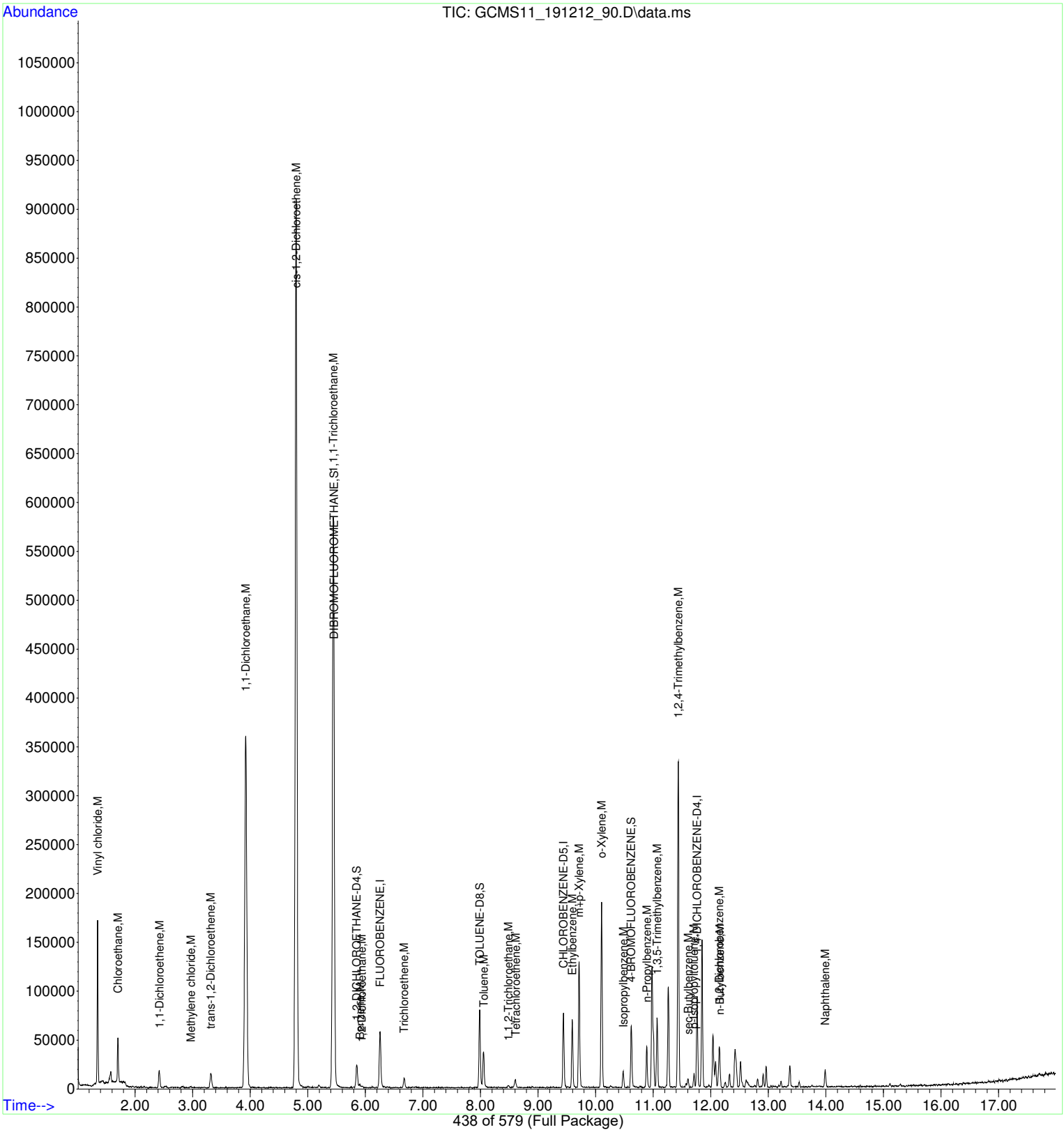
Quant Time: Dec 18 16:40:35 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

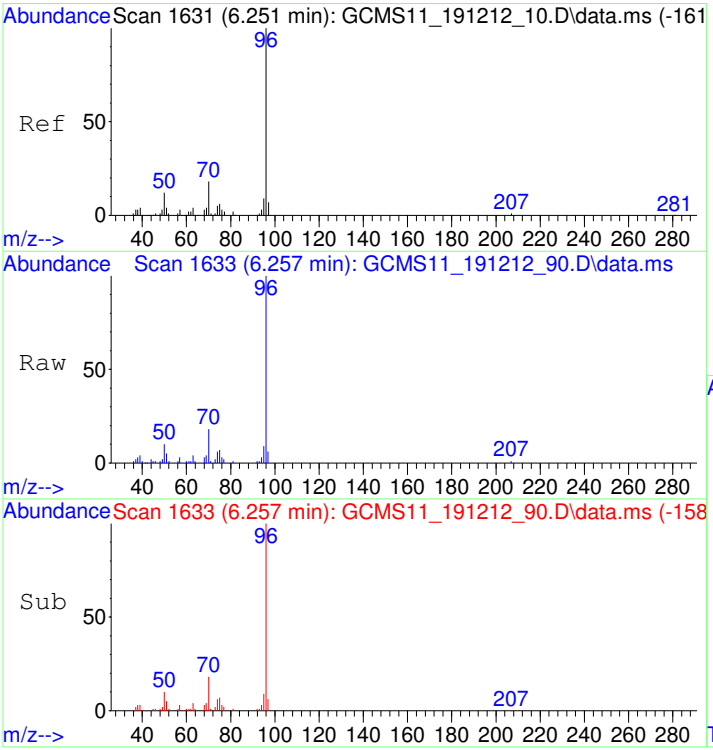
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.26	96	52180	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.44	82	21079	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	21261	50.00	ng		# 0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.46	113	15343	55.99	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	15734	48.17	ng		0.00
37) TOLUENE-D8	7.99	98	53019	51.66	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	18457	48.29	ng		0.00
Target Compounds							Qvalue
4) Vinyl chloride	1.35	62	91921	327.15	ng		99
6) Chloroethane	1.70	64	26632	129.66	ng		97
9) 1,1-Dichloroethene	2.42	96	6491	23.93	ng		91
12) Methylene chloride	2.97	84	403	1.23	ng		85
14) trans-1,2-Dichloroethene	3.32	96	6622	21.69	ng		94
16) 1,1-Dichloroethane	3.92	63	426741	846.41	ng		99
18) cis-1,2-Dichloroethene	4.80	96	473760	1437.75	ng		90
23) 1,1,1-Trichloroethane	5.44	97	404871	885.51	ng		98
27) Benzene	5.91	78	2693	2.13	ng	#	71
28) 1,2-Dichloroethane	5.94	62	1133	2.67	ng	#	79
29) Trichloroethene	6.67	95	3105	10.40	ng		90
38) Toluene	8.05	92	14979	21.17	ng		97
41) 1,1,2-Trichloroethane	8.49	83	593	2.24	ng	#	79
42) Tetrachloroethene	8.61	164	1770	6.67	ng		96
49) Ethylbenzene	9.59	106	14857	31.84	ng		94
50) m+p-Xylene	9.71	106	36410	61.68	ng		100
51) o-Xylene	10.10	106	50580	88.69	ng		99
54) Isopropylbenzene	10.48	105	10195	6.77	ng		97
58) n-Propylbenzene	10.89	91	28485	16.82	ng		99
60) 1,3,5-Trimethylbenzene	11.07	105	36908	30.10	ng		97
65) 1,2,4-Trimethylbenzene	11.43	105	169371	147.62	ng		99
66) sec-Butylbenzene	11.61	105	5786	4.11	ng	#	81
68) p-Isopropyltoluene	11.71	119	7224m	5.86	ng		
70) 1,2-Dichlorobenzene	12.15	146	5398	7.60	ng		87
71) n-Butylbenzene	12.16	91	6979	6.37	ng	#	43
75) Naphthalene	13.99	128	12853	10.48	ng		91

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_90.D
Acq On : 14 Dec 2019 8:20 am
Operator : ko
Sample : 1912009-08RE1
Misc : LIMS 19L1101, 10X DILUTION
ALS Vial : 65 Sample Multiplier: 1

Quant Time: Dec 18 16:40:35 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

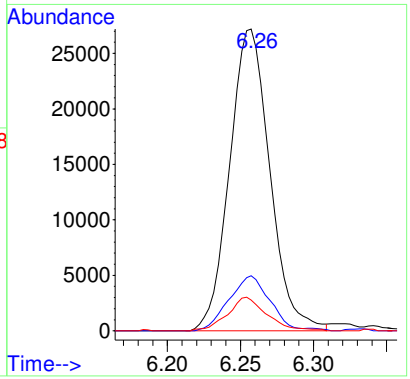


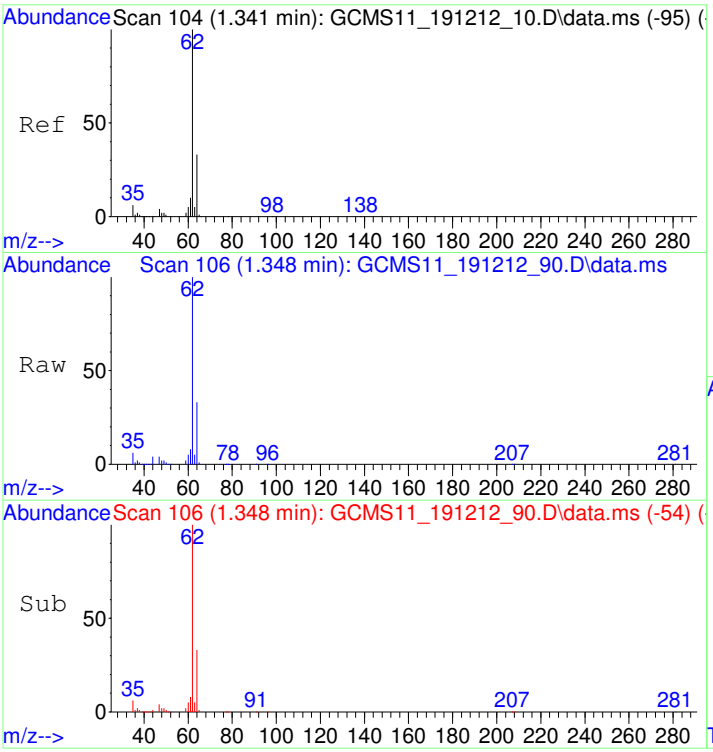


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.26 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 96 Resp: 52180

Ion	Ratio	Lower	Upper
96	100		
70	18.4	0.0	48.3
50	10.8	0.0	39.5

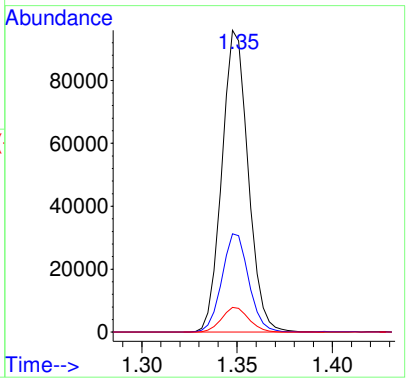


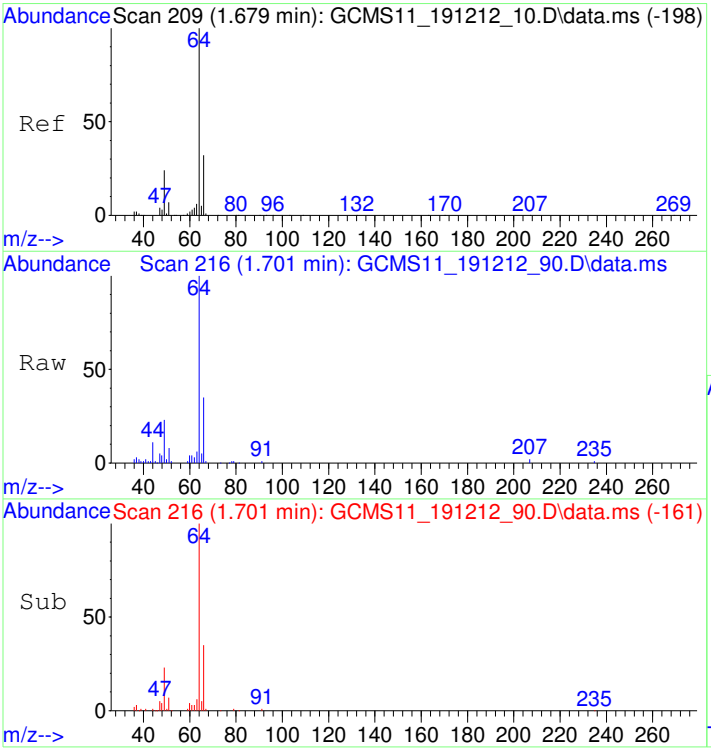


#4
Vinyl chloride
Concen: 327.15 ng
RT: 1.35 min Scan# 106
Delta R.T. -0.003 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 62 Resp: 91921

Ion	Ratio	Lower	Upper
62	100		
64	33.2	2.7	62.7
61	8.5	0.0	39.4

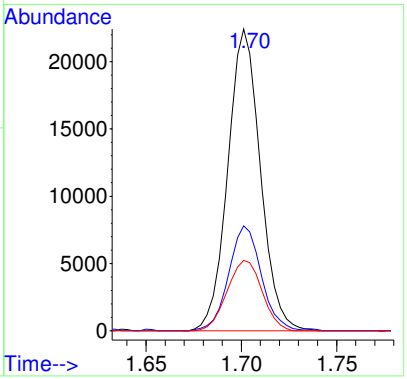


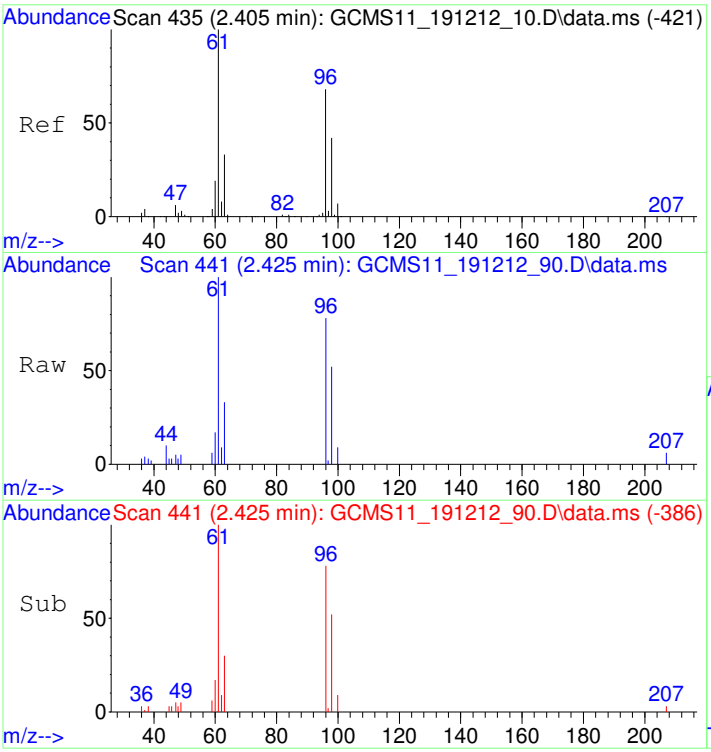


#6
Chloroethane
Concen: 129.66 ng
RT: 1.70 min Scan# 216
Delta R.T. 0.007 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 64 Resp: 26632

Ion	Ratio	Lower	Upper
64	100		
66	34.9	3.3	63.3
49	25.0	0.0	53.3

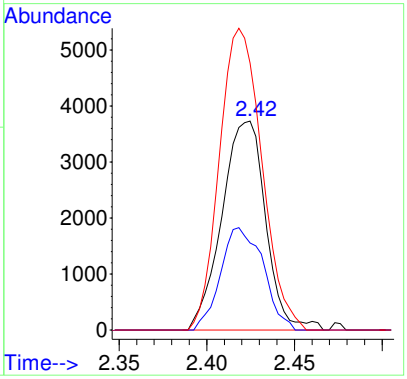


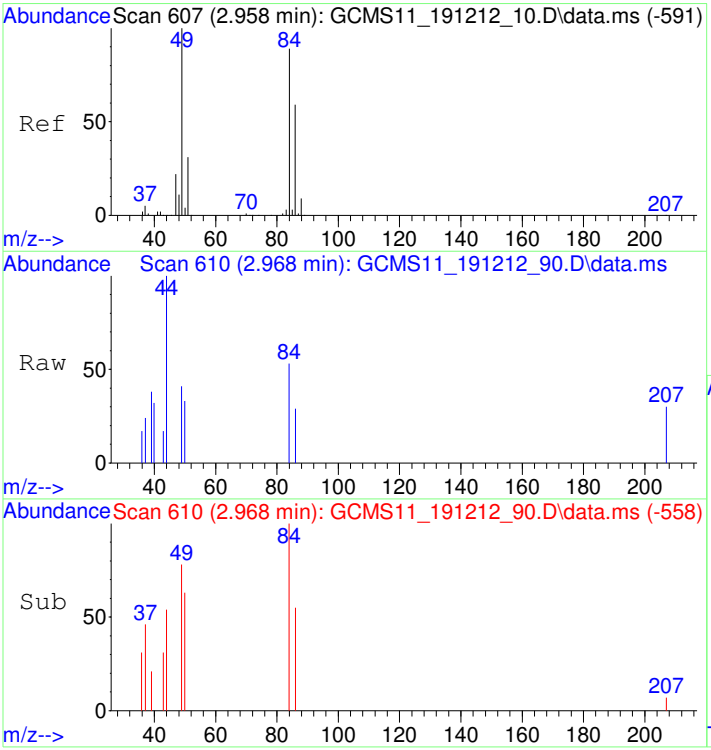


#9
1,1-Dichloroethene
Concen: 23.93 ng
RT: 2.42 min Scan# 441
Delta R.T. 0.007 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 96 Resp: 6491

Ion	Ratio	Lower	Upper
96	100		
63	47.6	20.7	80.7
61	139.9	123.9	183.9

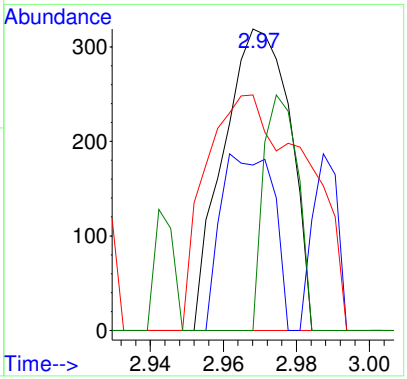


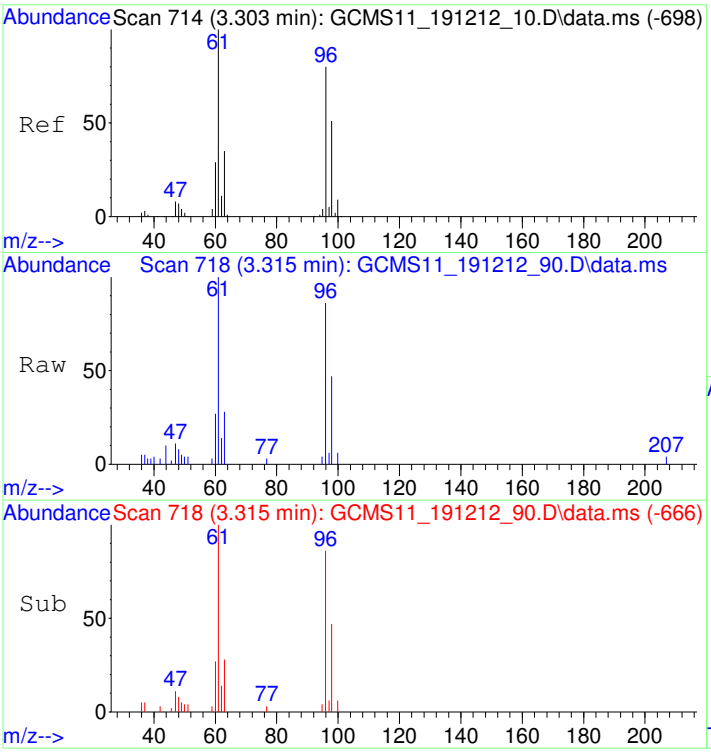


#12
Methylene chloride
Concen: 1.23 ng
RT: 2.97 min Scan# 610
Delta R.T. -0.003 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 84 Resp: 403

Ion	Ratio	Lower	Upper
84	100		
86	46.7	35.2	95.2
49	119.1	78.3	138.3
51	40.2	4.0	64.0

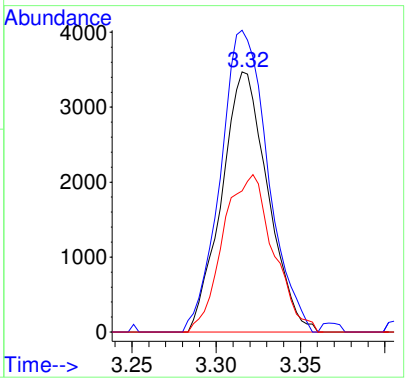


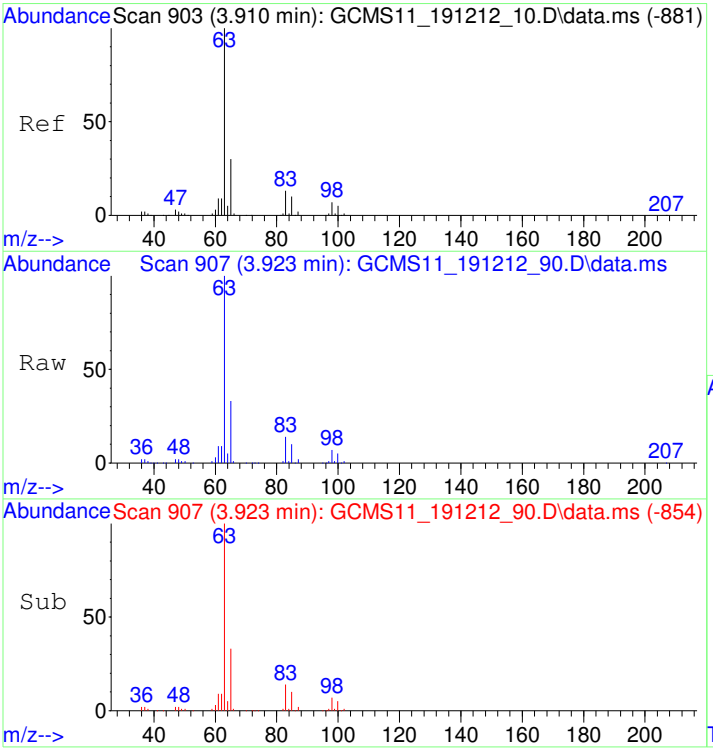


#14
trans-1,2-Dichloroethene
Concen: 21.69 ng
RT: 3.32 min Scan# 718
Delta R.T. -0.003 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 96 Resp: 6622

Ion	Ratio	Lower	Upper
96	100		
61	119.5	99.6	159.6
98	65.8	35.3	95.3

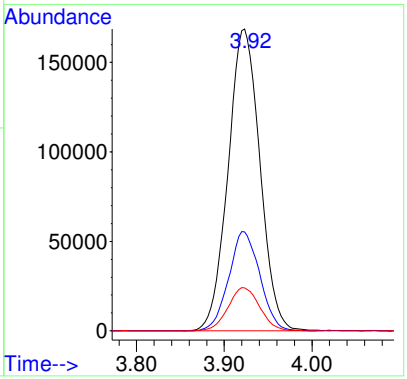


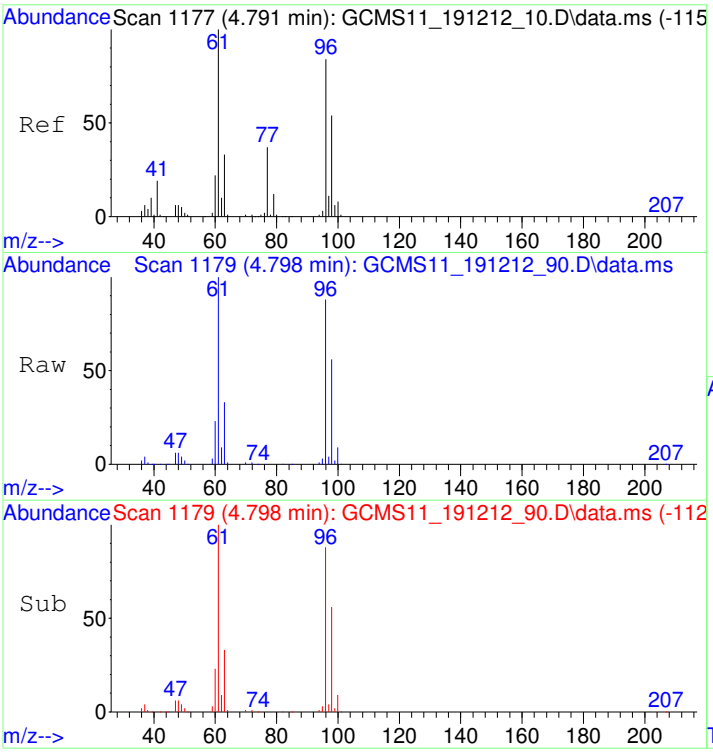


#16
1,1-Dichloroethane
Concen: 846.41 ng
RT: 3.92 min Scan# 907
Delta R.T. 0.000 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 63 Resp: 426741

Ion	Ratio	Lower	Upper
63	100		
65	32.1	2.8	62.8
83	14.2	0.0	44.3

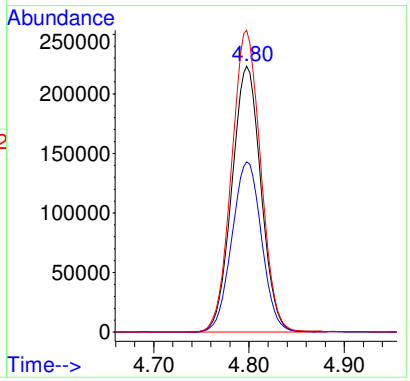


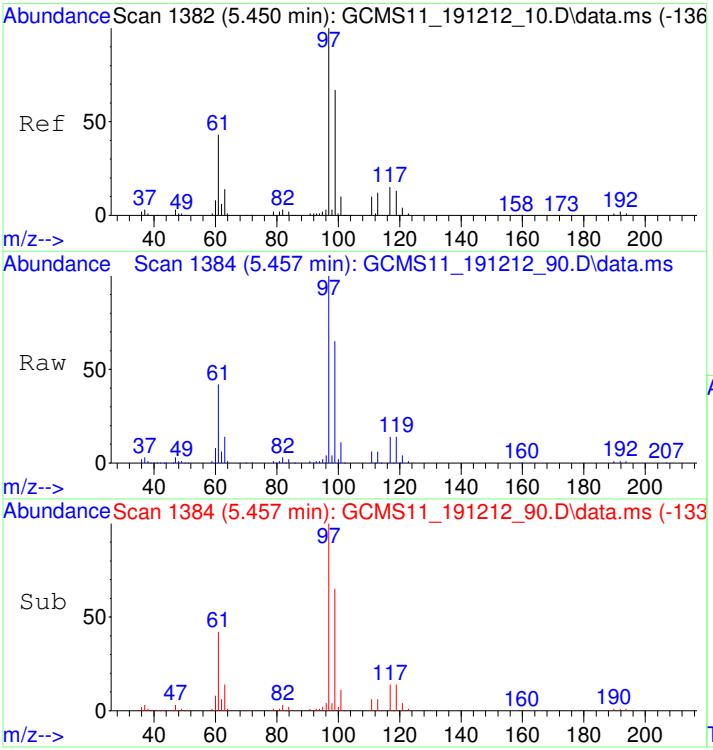


#18
cis-1,2-Dichloroethene
Concen: 1437.75 ng
RT: 4.80 min Scan# 1179
Delta R.T. -0.003 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 96 Resp: 473760

Ion	Ratio	Lower	Upper
96	100		
98	65.3	30.6	90.6
61	113.6	96.6	156.6

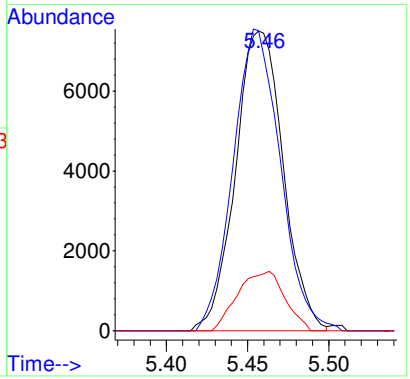


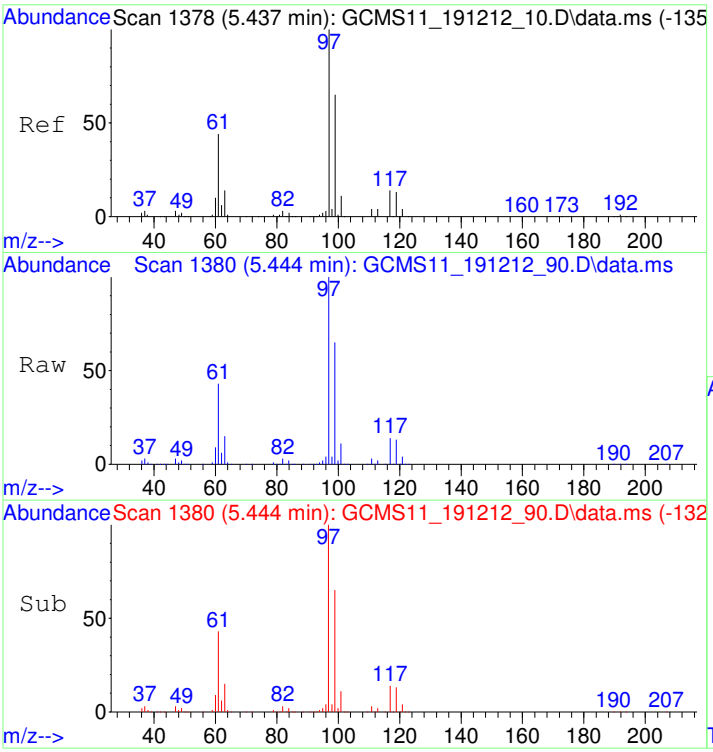


#22
DIBROMOFLUOROMETHANE
Concen: 55.99 ng
RT: 5.46 min Scan# 1384
Delta R.T. -0.003 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion:113 Resp: 15343

Ion	Ratio	Lower	Upper
113	100		
111	99.7	75.2	135.2
192	19.5	0.0	52.1

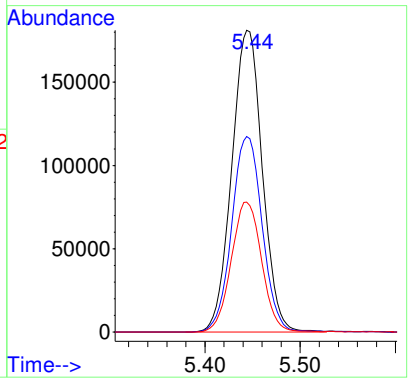


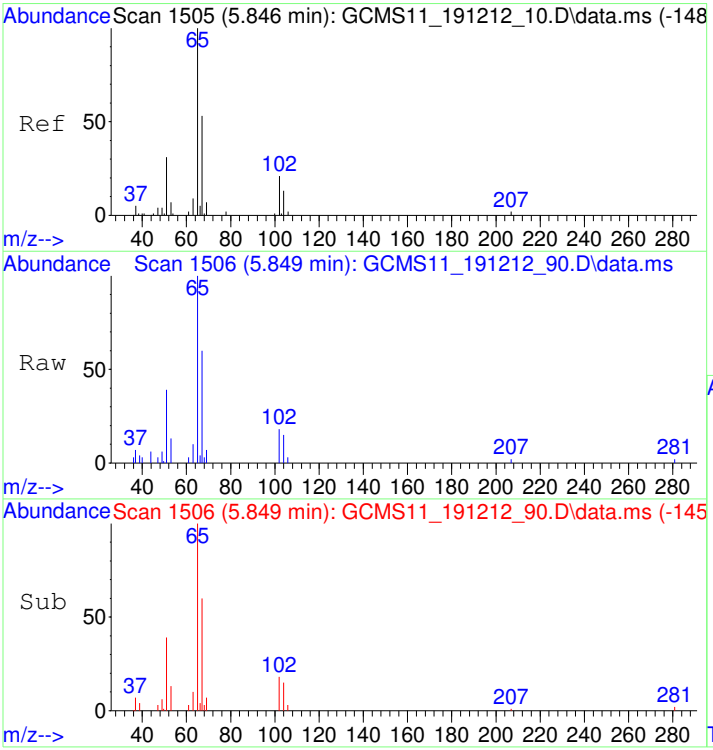


#23
1,1,1-Trichloroethane
Concen: 885.51 ng
RT: 5.44 min Scan# 1380
Delta R.T. 0.000 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 97 Resp: 404871

Ion	Ratio	Lower	Upper
97	100		
99	64.7	32.7	92.7
61	42.9	13.1	73.1

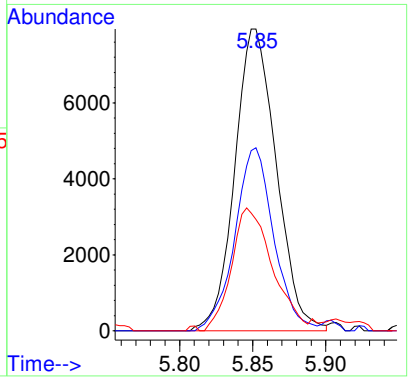


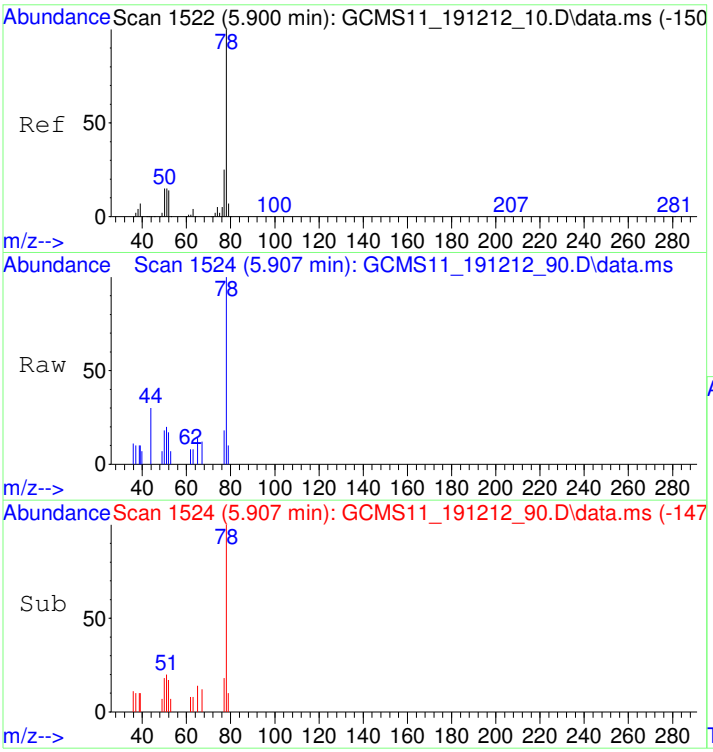


#26
1,2-DICHLOROETHANE-D4
Concen: 48.17 ng
RT: 5.85 min Scan# 1506
Delta R.T. -0.003 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 65 Resp: 15734

Ion	Ratio	Lower	Upper
65	100		
67	57.0	15.4	75.4
51	40.1	2.7	62.7

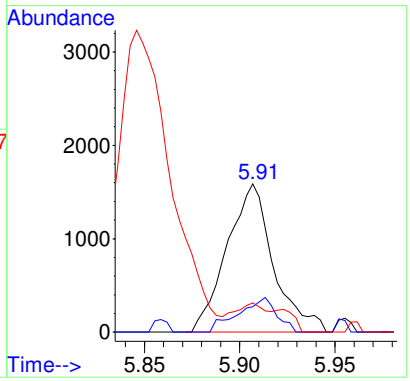


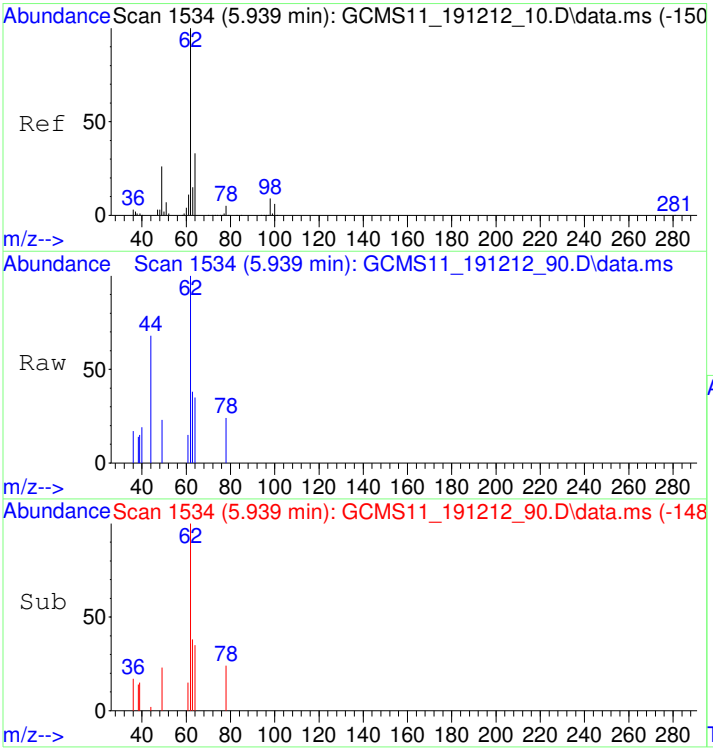


#27
Benzene
Concen: 2.13 ng
RT: 5.91 min Scan# 1524
Delta R.T. 0.000 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 78 Resp: 2693

Ion	Ratio	Lower	Upper
78	100		
52	18.9	0.0	44.0
51	0.0	0.0	48.4

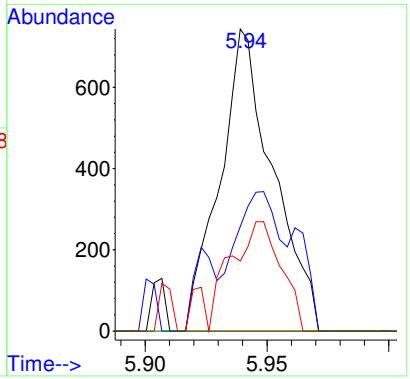


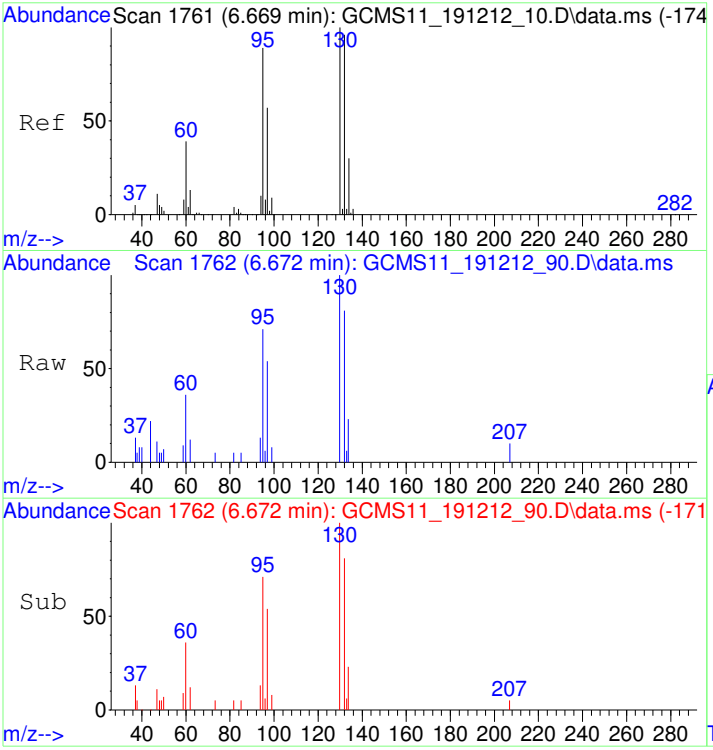


#28
1,2-Dichloroethane
Concen: 2.67 ng
RT: 5.94 min Scan# 1534
Delta R.T. -0.003 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 62 Resp: 1133

Ion	Ratio	Lower	Upper
62	100		
64	20.6	3.2	63.2
49	34.3	0.0	55.4
98	0.0	0.0	39.6

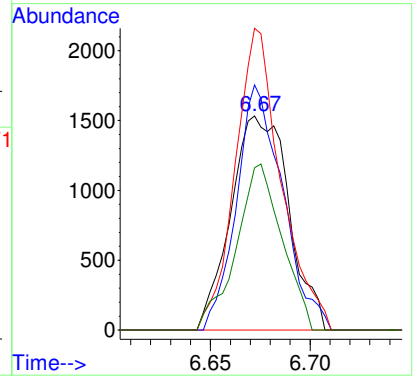


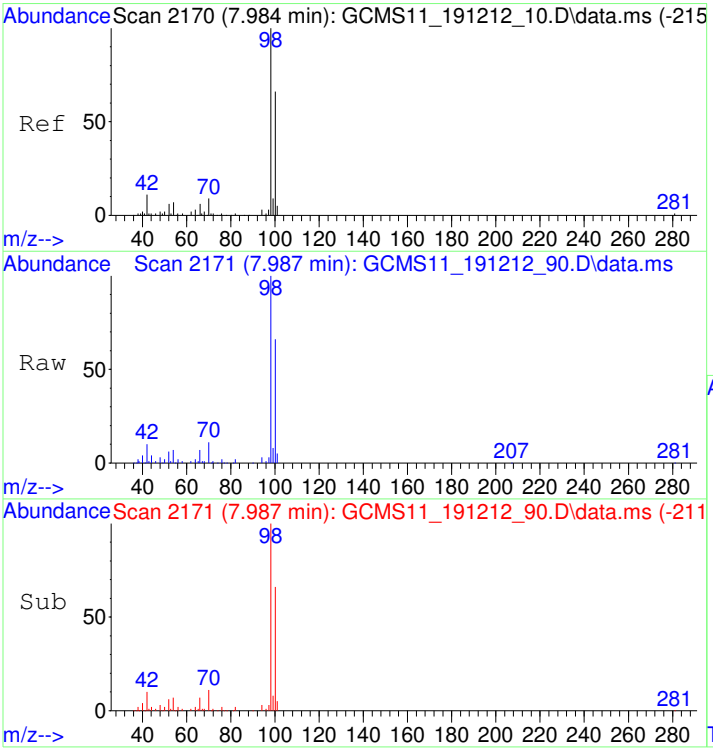


#29
Trichloroethene
Concen: 10.40 ng
RT: 6.67 min Scan# 1762
Delta R.T. -0.003 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 95 Resp: 3105

Ion	Ratio	Lower	Upper
95	100		
132	91.3	78.7	138.7
130	111.5	86.1	146.1
97	61.2	37.2	97.2

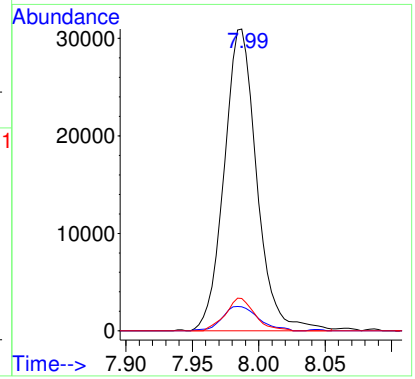


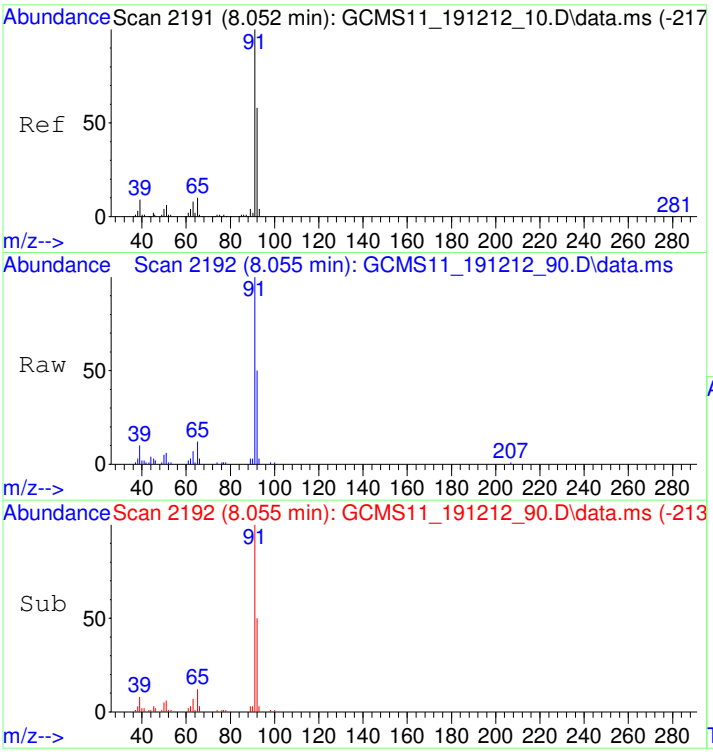


#37
TOLUENE-D8
Concen: 51.66 ng
RT: 7.99 min Scan# 2171
Delta R.T. 0.003 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 98 Resp: 53019

Ion	Ratio	Lower	Upper
98	100		
99	9.0	0.0	39.8
70	9.8	0.0	40.7

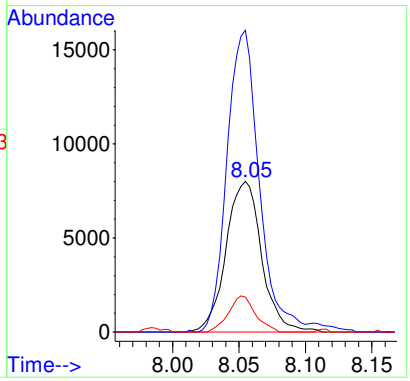


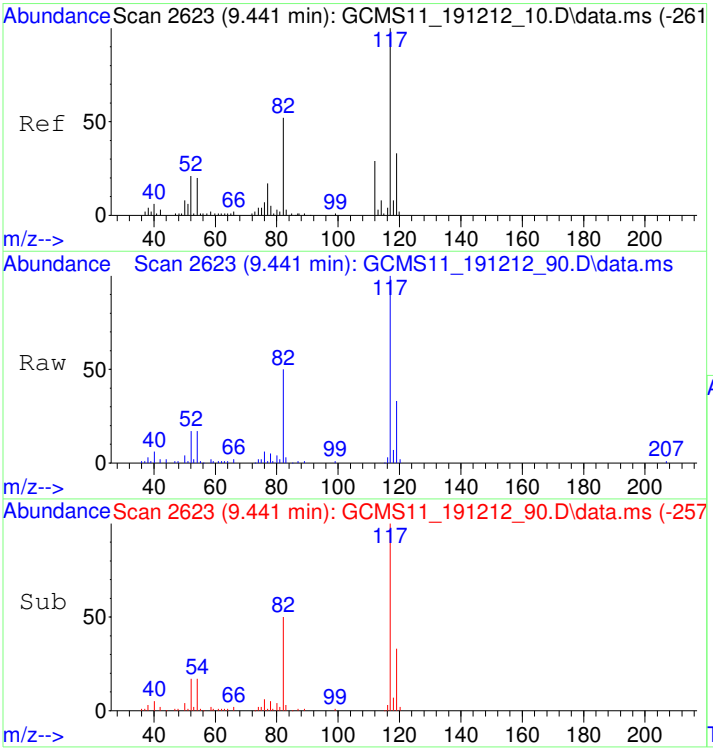


#38
Toluene
Concen: 21.17 ng
RT: 8.05 min Scan# 2192
Delta R.T. 0.000 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 92 Resp: 14979

Ion	Ratio	Lower	Upper
92	100		
91	180.1	145.1	205.1
65	18.2	0.0	48.1

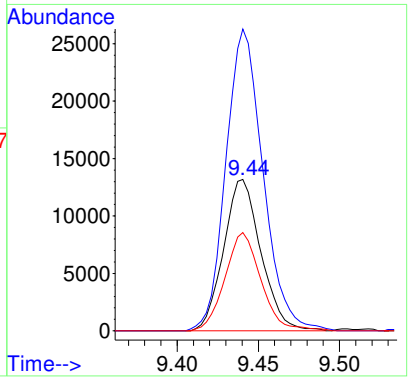


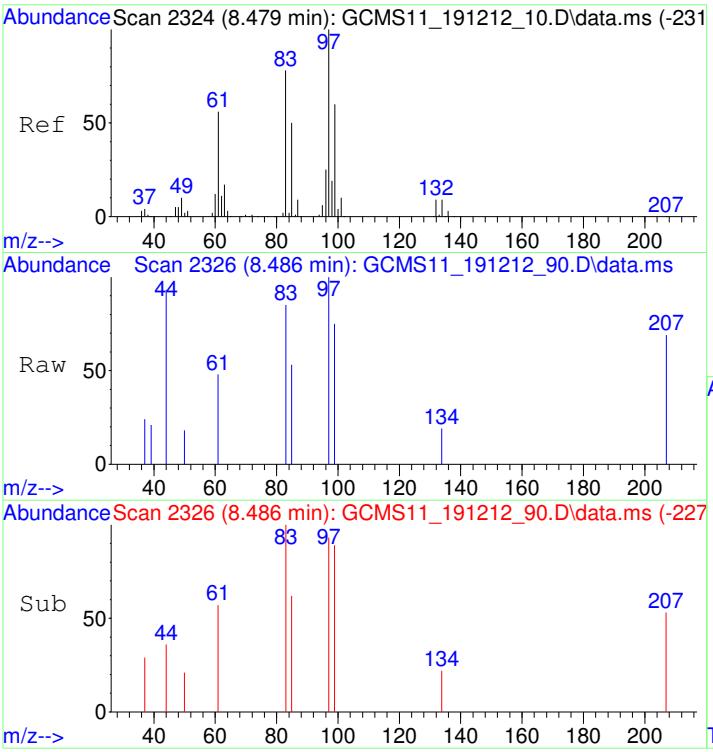


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.001 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 82 Resp: 21079

Ion	Ratio	Lower	Upper
82	100		
117	198.5	160.7	220.7
119	62.7	33.5	93.5

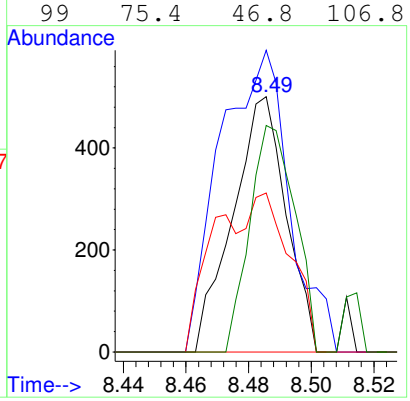


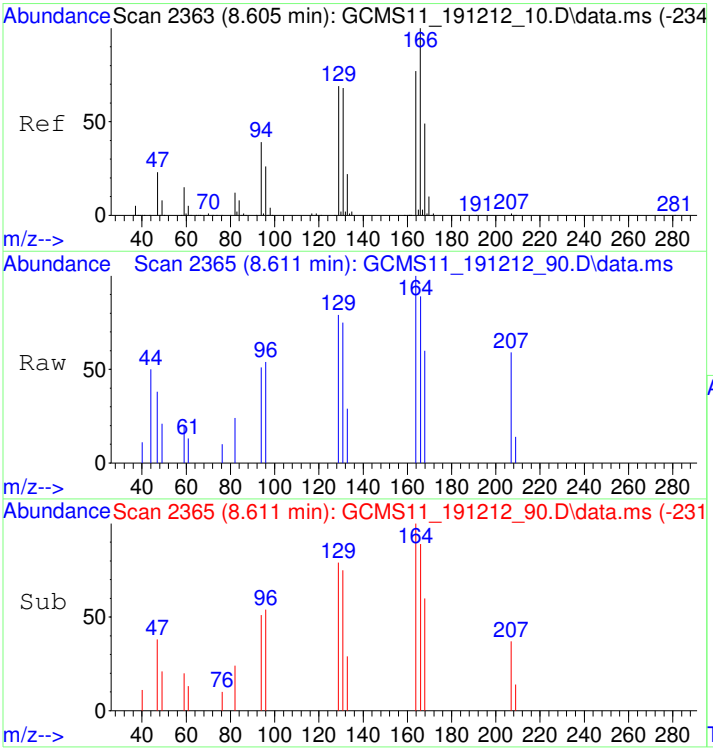


#41
1,1,2-Trichloroethane
Concen: 2.24 ng
RT: 8.49 min Scan# 2326
Delta R.T. 0.003 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 83 Resp: 593

Ion	Ratio	Lower	Upper
83	100		
97	153.3	90.7	150.7#
85	44.7	37.5	97.5
99	75.4	46.8	106.8

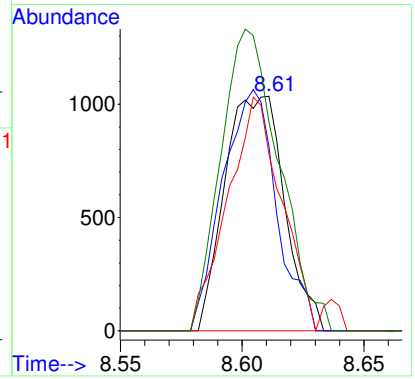


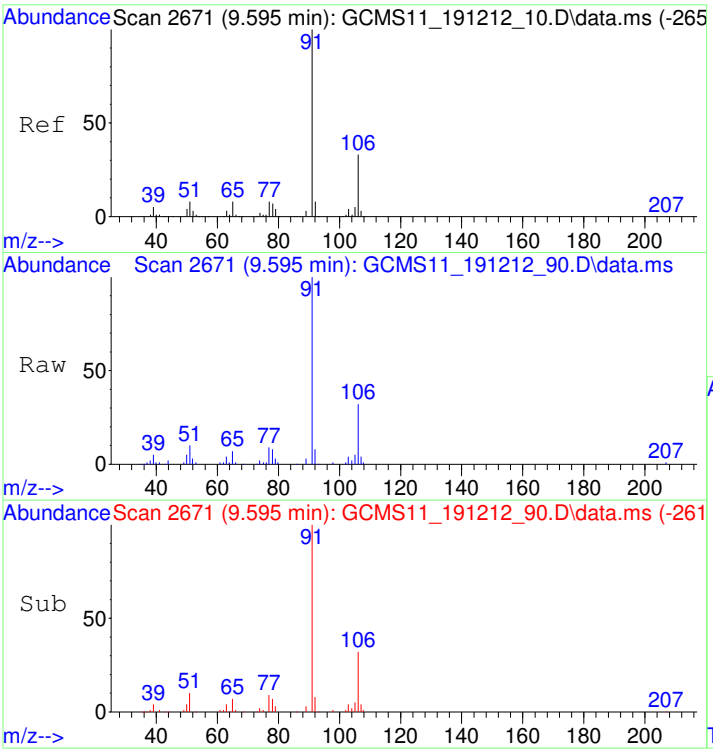


#42
Tetrachloroethene
Concen: 6.67 ng
RT: 8.61 min Scan# 2365
Delta R.T. 0.007 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion:164 Resp: 1770

Ion	Ratio	Lower	Upper
164	100		
129	92.5	57.5	117.5
131	89.9	55.8	115.8
166	125.7	99.4	159.4

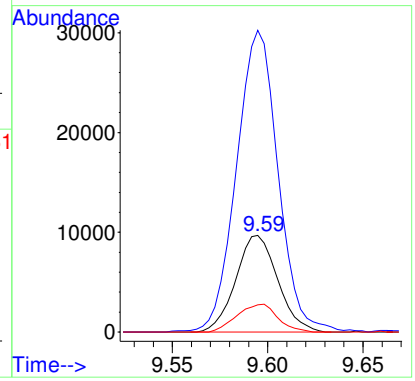


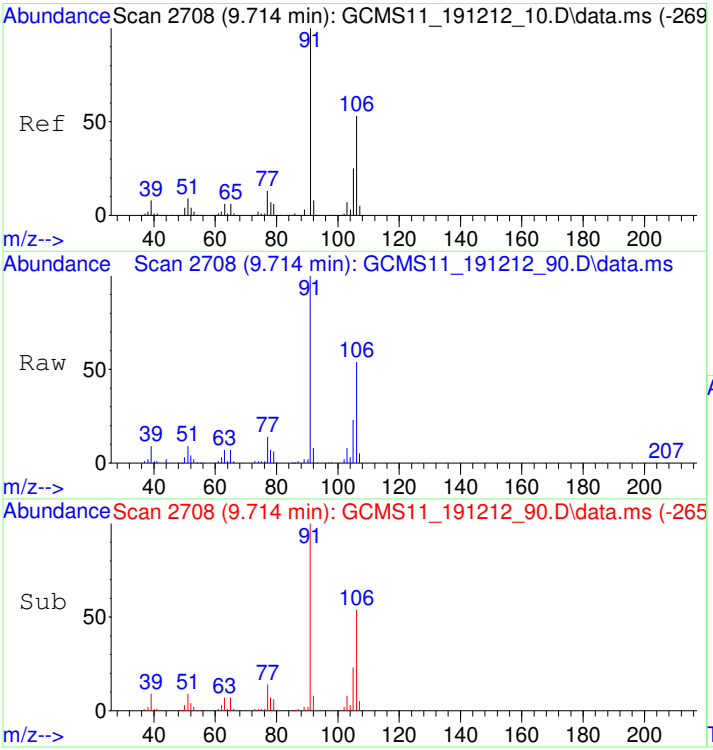


#49
Ethylbenzene
Concen: 31.84 ng
RT: 9.59 min Scan# 2671
Delta R.T. 0.000 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion:106 Resp: 14857

Ion	Ratio	Lower	Upper
106	100		
91	309.7	267.1	327.1
77	27.9	0.0	57.1

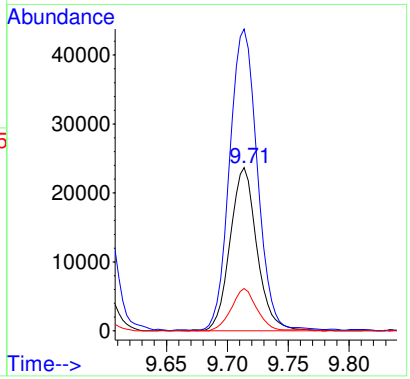


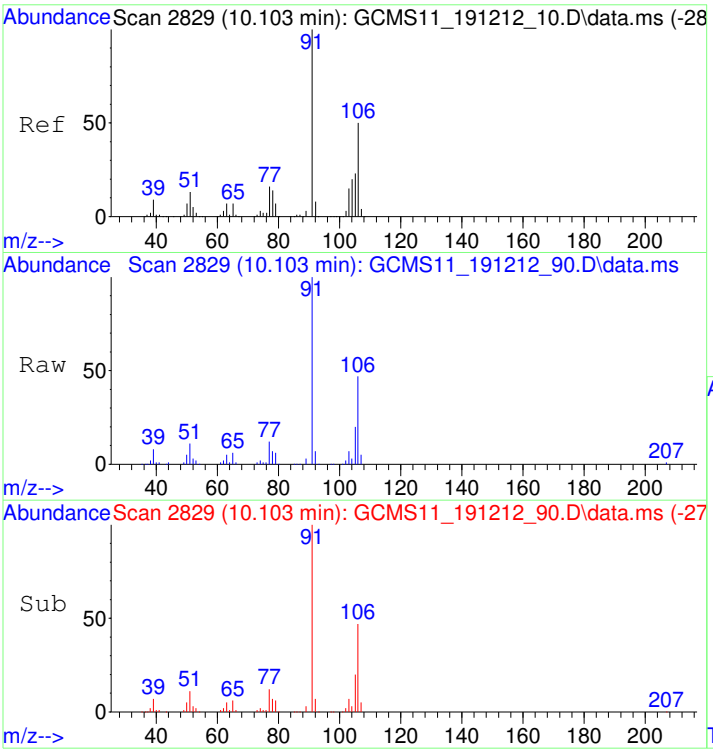


#50
m+p-Xylene
Concen: 61.68 ng
RT: 9.71 min Scan# 2708
Delta R.T. 0.000 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion:106 Resp: 36410

Ion	Ratio	Lower	Upper
106	100		
91	191.1	160.8	220.8
77	24.6	0.0	54.6

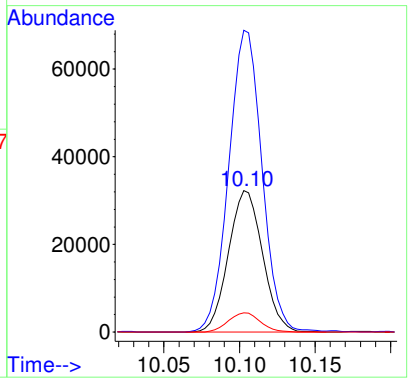


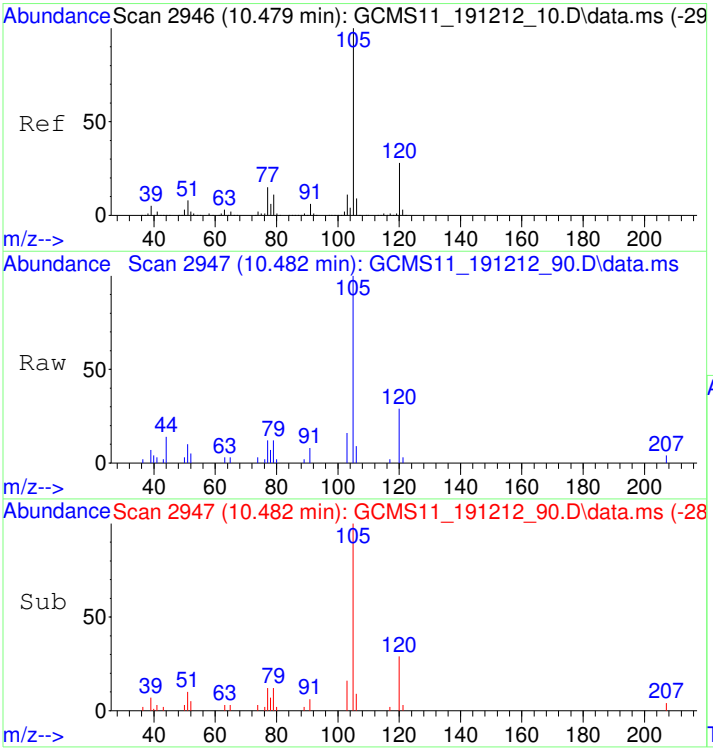


#51
o-Xylene
Concen: 88.69 ng
RT: 10.10 min Scan# 2829
Delta R.T. 0.000 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion:106 Resp: 50580

Ion	Ratio	Lower	Upper
106	100		
91	207.8	178.4	238.4
65	12.8	0.0	45.9

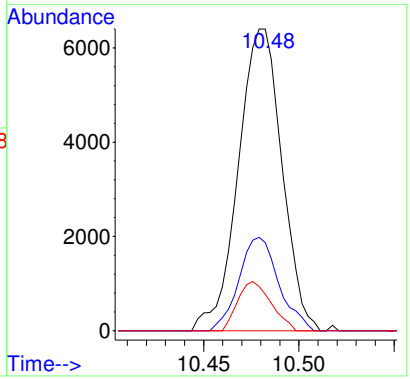


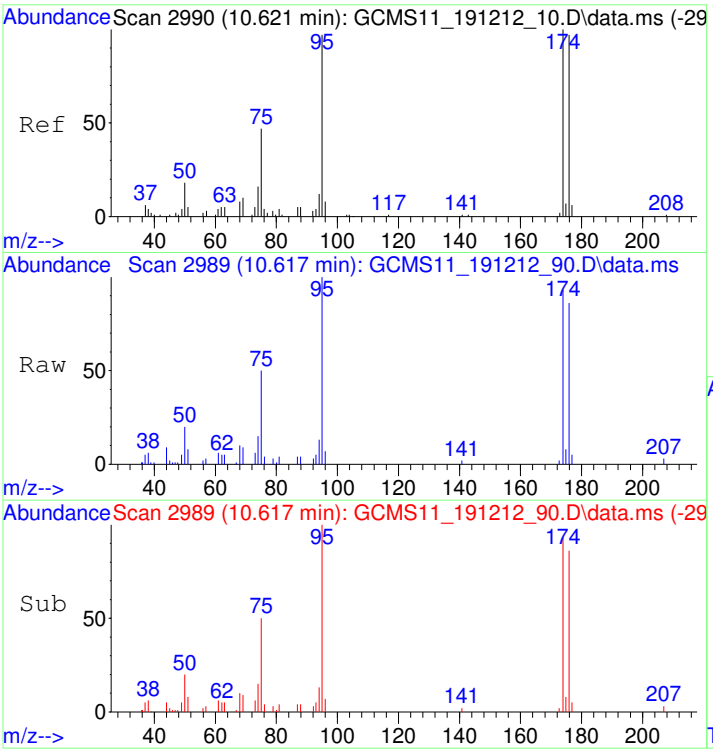


#54
Isopropylbenzene
Concen: 6.77 ng
RT: 10.48 min Scan# 2947
Delta R.T. 0.003 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion:105 Resp: 10195

Ion	Ratio	Lower	Upper
105	100		
120	28.2	0.0	59.2
77	12.5	0.0	44.3

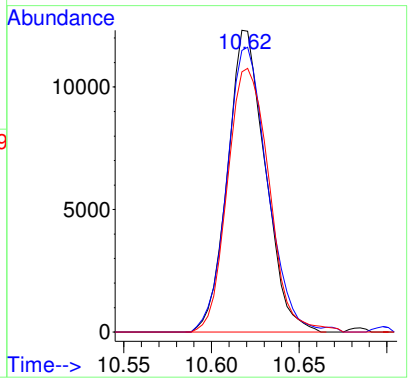


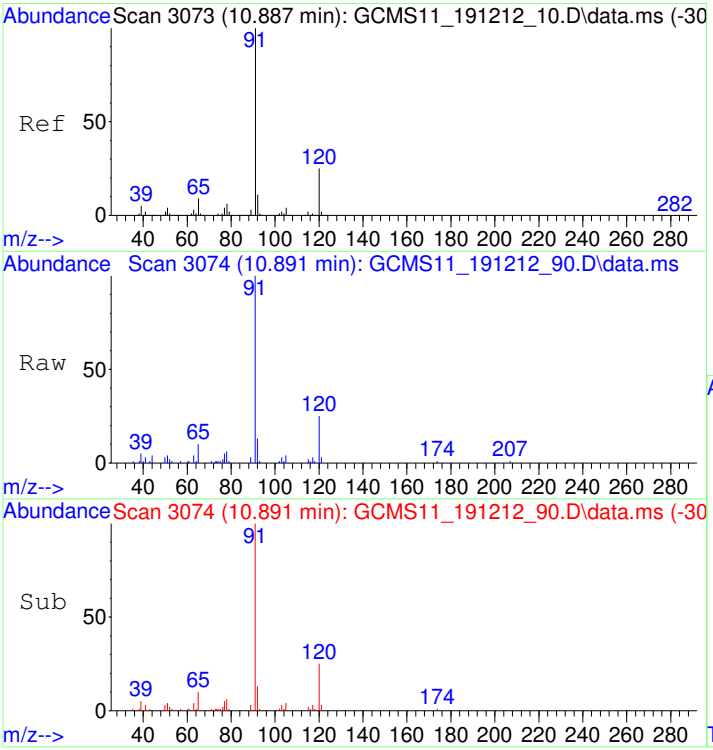


#55
4-BROMOFLUOROBENZENE
Concen: 48.29 ng
RT: 10.62 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 95 Resp: 18457

Ion	Ratio	Lower	Upper
95	100		
174	100.9	68.5	128.5
176	96.4	66.8	126.8

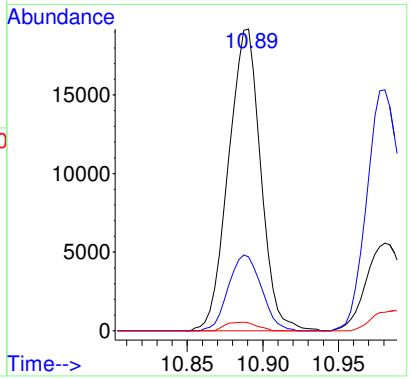


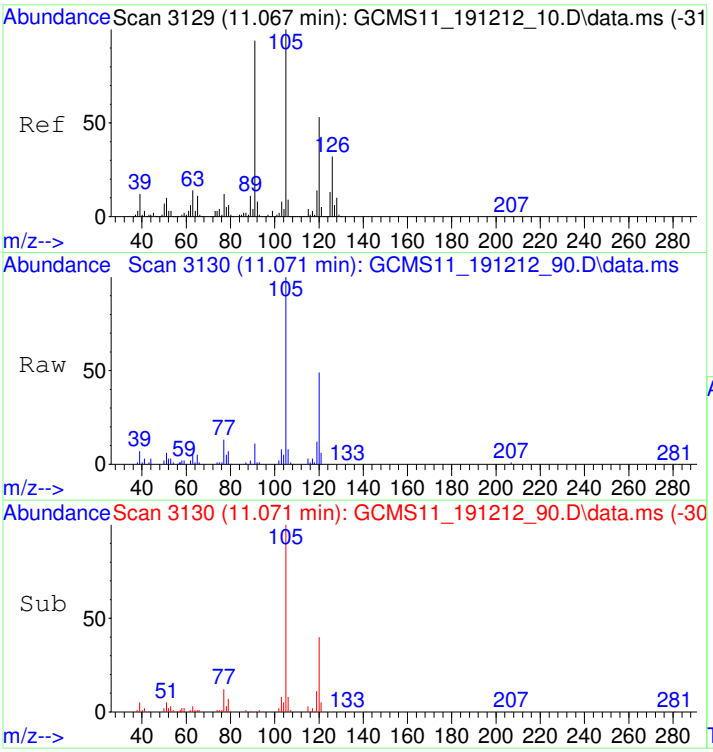


#58
n-Propylbenzene
Concen: 16.82 ng
RT: 10.89 min Scan# 3074
Delta R.T. 0.003 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 91 Resp: 28485

Ion	Ratio	Lower	Upper
91	100		
120	25.7	0.0	55.0
121	2.8	0.0	32.4

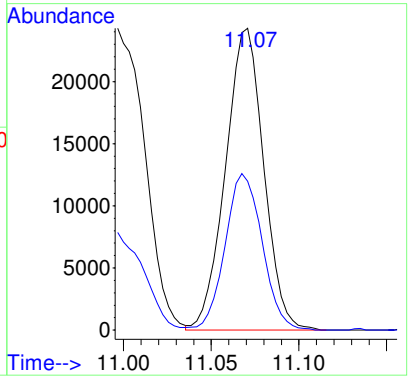


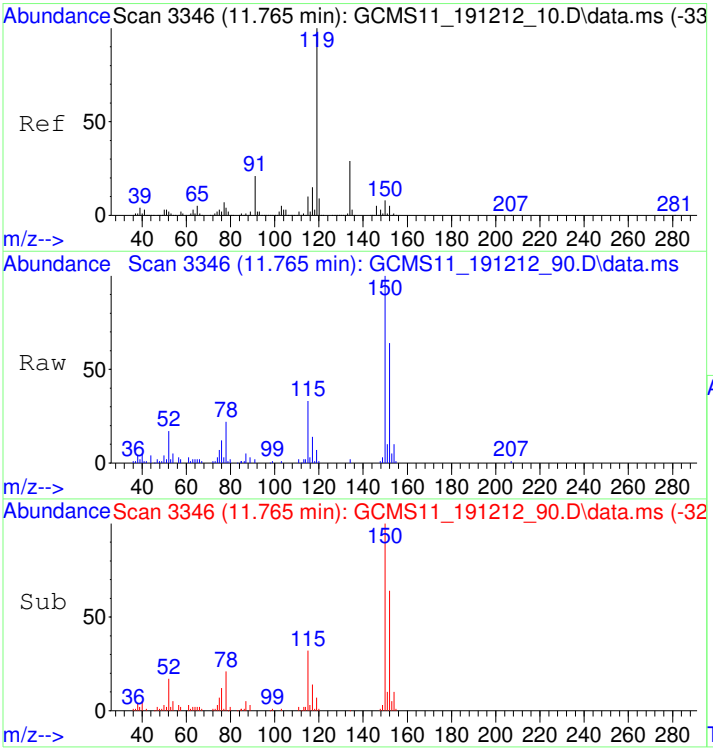


#60
1,3,5-Trimethylbenzene
Concen: 30.10 ng
RT: 11.07 min Scan# 3130
Delta R.T. 0.000 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion:105 Resp: 36908

Ion	Ratio	Lower	Upper
105	100		
120	50.3	22.4	82.4

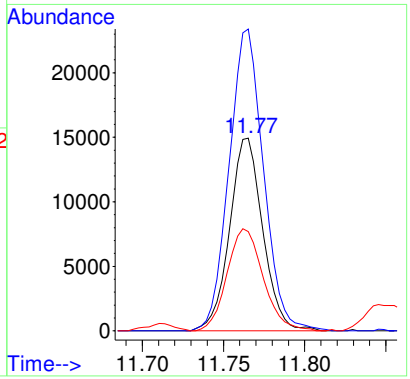


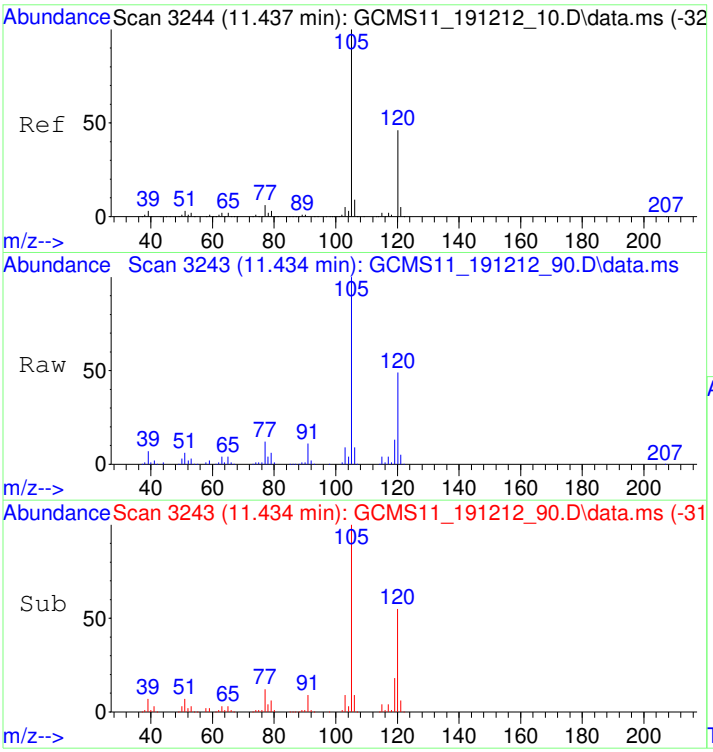


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion:152 Resp: 21261

Ion	Ratio	Lower	Upper
152	100		
150	162.1	162.5	222.5#
115	57.6	82.3	142.3#

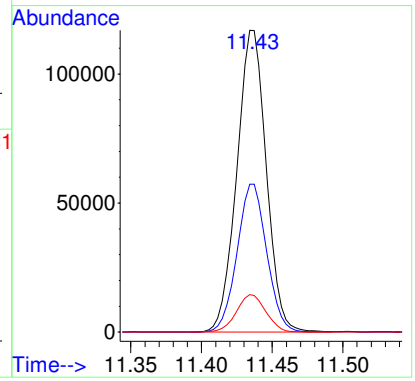


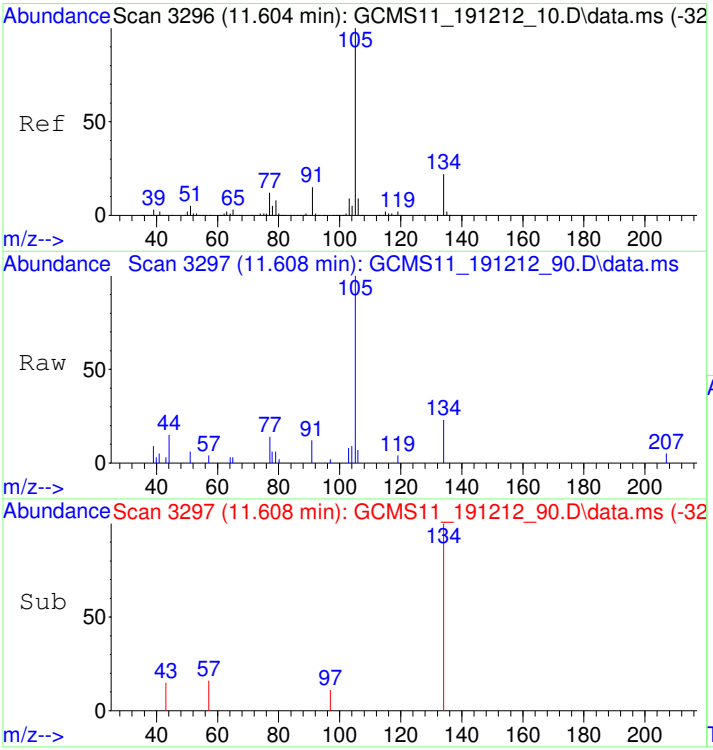


#65
1,2,4-Trimethylbenzene
Concen: 147.62 ng
RT: 11.43 min Scan# 3243
Delta R.T. -0.003 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion:105 Resp: 169371

Ion	Ratio	Lower	Upper
105	100		
120	49.3	18.6	78.6
77	12.4	0.0	41.4

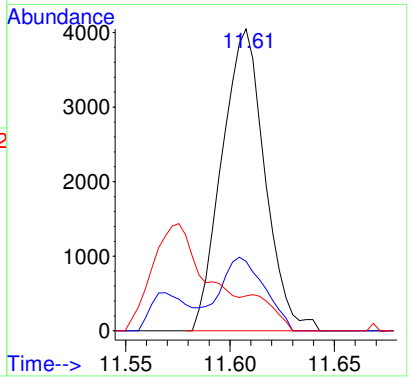


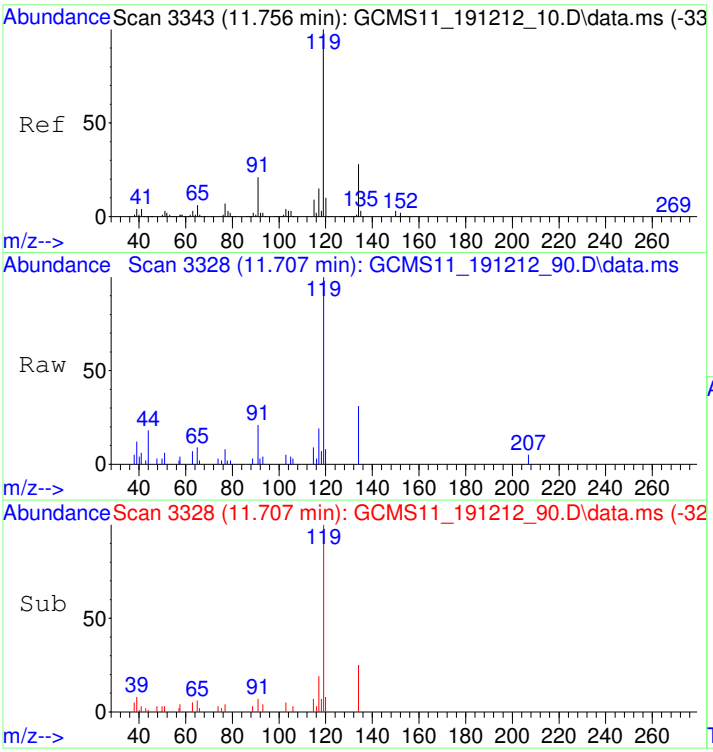


#66
sec-Butylbenzene
Concen: 4.11 ng
RT: 11.61 min Scan# 3297
Delta R.T. 0.000 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion:105 Resp: 5786

Ion	Ratio	Lower	Upper
105	100		
134	25.6	0.0	52.3
91	0.0	0.0	45.3

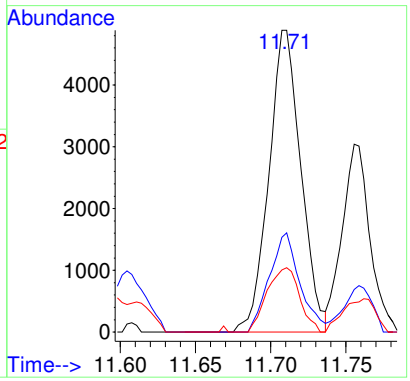


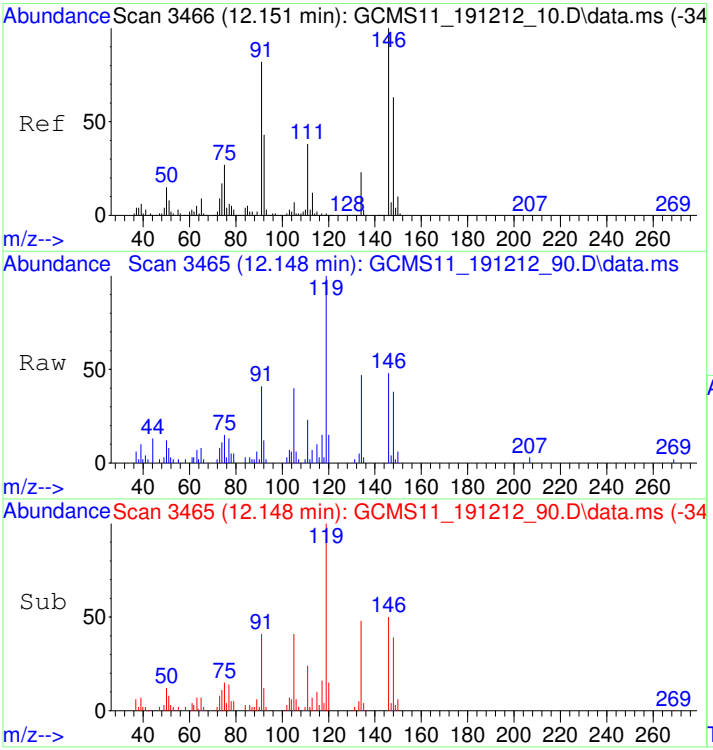


#68
p-Isopropyltoluene
Concen: 5.86 ng m
RT: 11.71 min Scan# 3328
Delta R.T. -0.051 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion:119 Resp: 7224

Ion	Ratio	Lower	Upper
119	100		
134	13.5	0.0	57.5
91	11.2	0.0	51.3

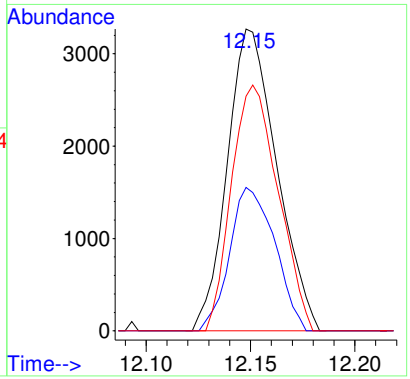


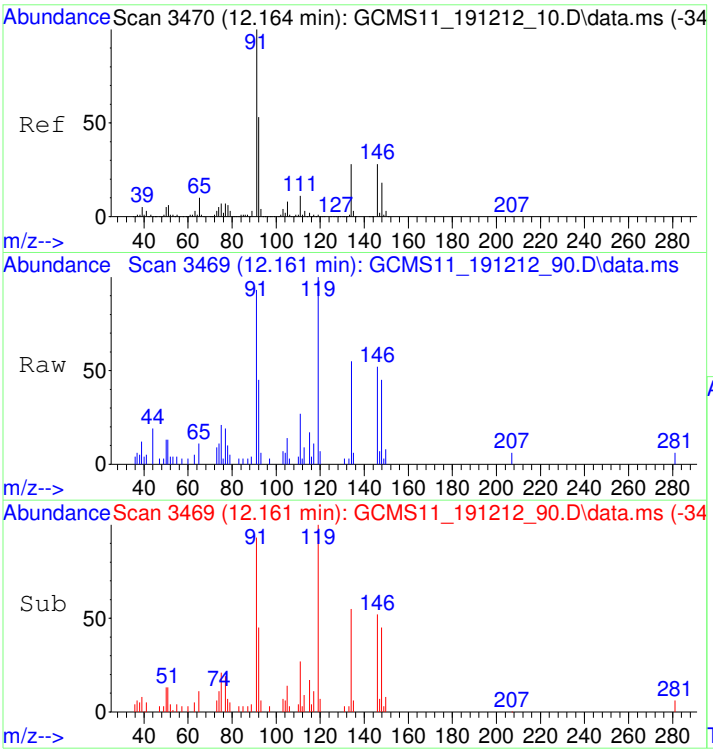


#70
1,2-Dichlorobenzene
Concen: 7.60 ng
RT: 12.15 min Scan# 3465
Delta R.T. -0.003 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion:146 Resp: 5398

Ion	Ratio	Lower	Upper
146	100		
111	43.4	8.4	68.4
148	76.9	34.6	94.6

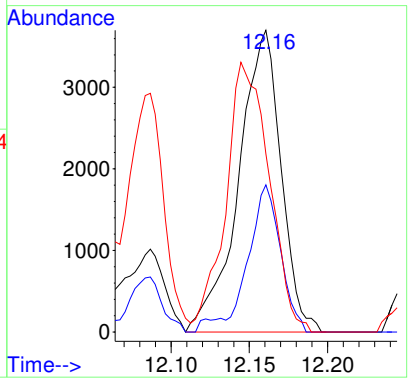


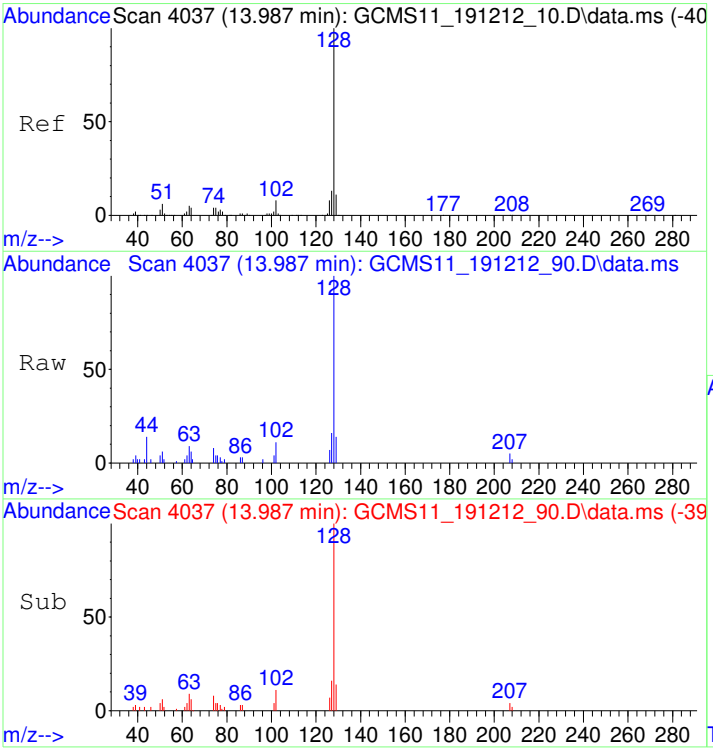


#71
n-Butylbenzene
Concen: 6.37 ng
RT: 12.16 min Scan# 3469
Delta R.T. 0.000 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion: 91 Resp: 6979

Ion	Ratio	Lower	Upper
91	100		
92	35.8	22.0	82.0
134	91.2	0.0	58.4#

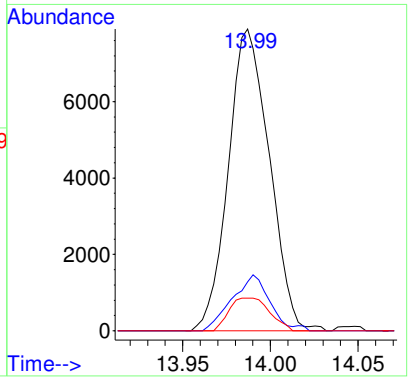




#75
Naphthalene
Concen: 10.48 ng
RT: 13.99 min Scan# 4037
Delta R.T. -0.000 min
Lab File: GCMS11_191212_90.D
Acq: 14 Dec 2019 8:20 am

Tgt Ion:128 Resp: 12853

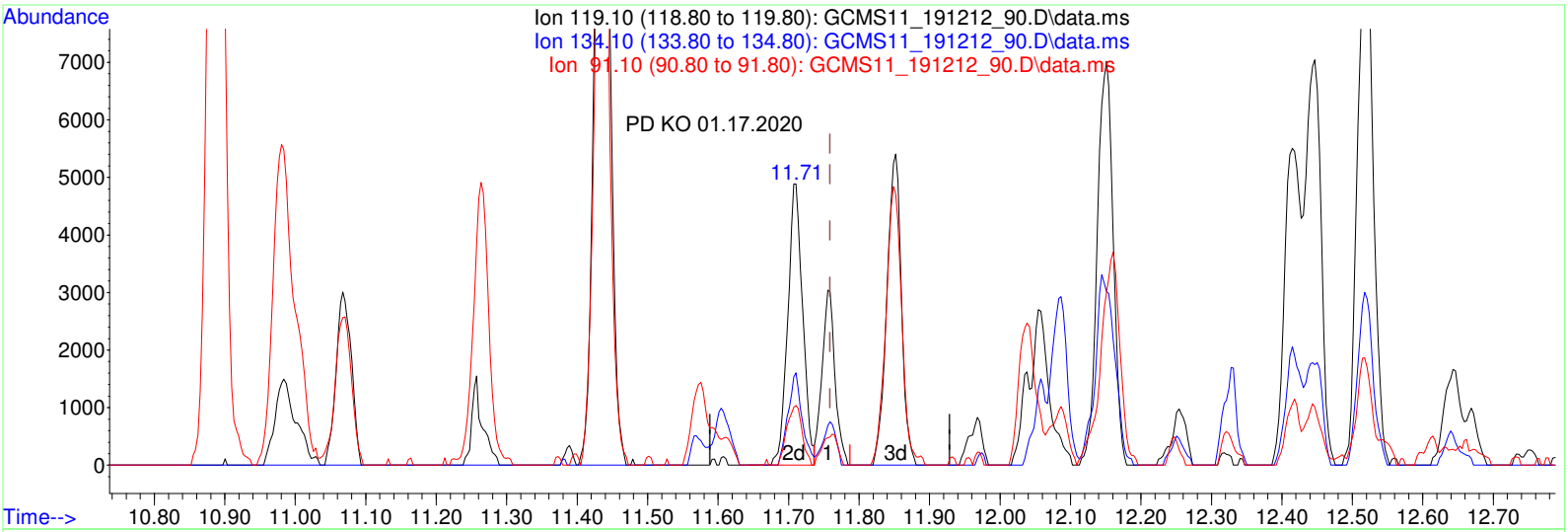
Ion	Ratio	Lower	Upper
128	100		
127	17.1	0.0	43.5
102	10.8	0.0	37.4

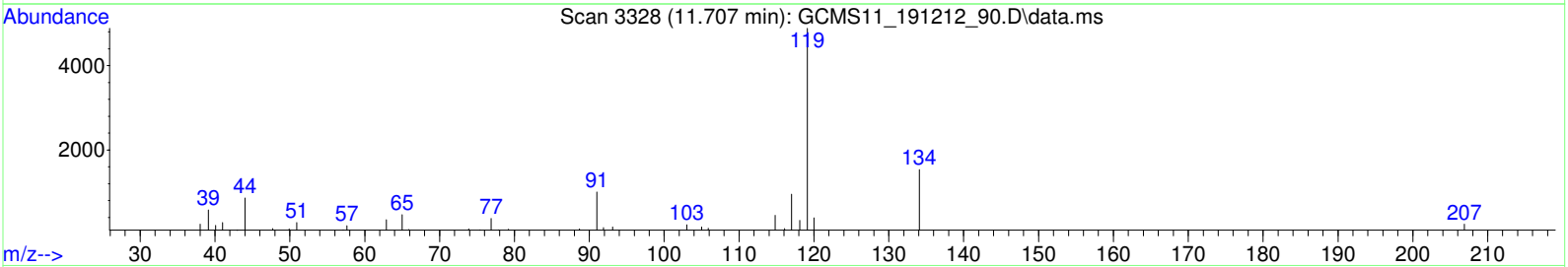


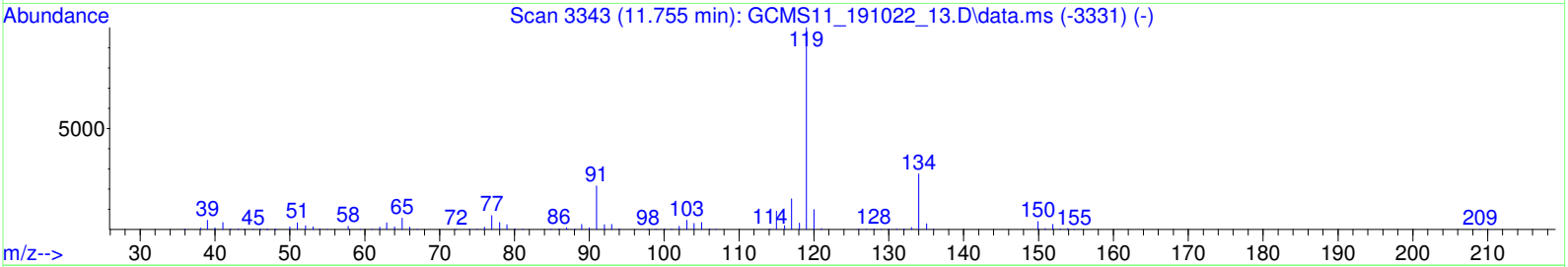
Quantitation Report (Qedit)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_90.D
Acq On : 14 Dec 2019 8:20 am
Operator : ko
Sample : 1912009-08RE1
Misc : LIMS 19L1101, 10X DILUTION
ALS Vial : 65 Sample Multiplier: 1

Quant Time: Dec 16 12:11:15 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_191212_90.D\data.ms

(68) p-Isopropyltoluene (M)

11.707min (-0.051) 5.86 ng m

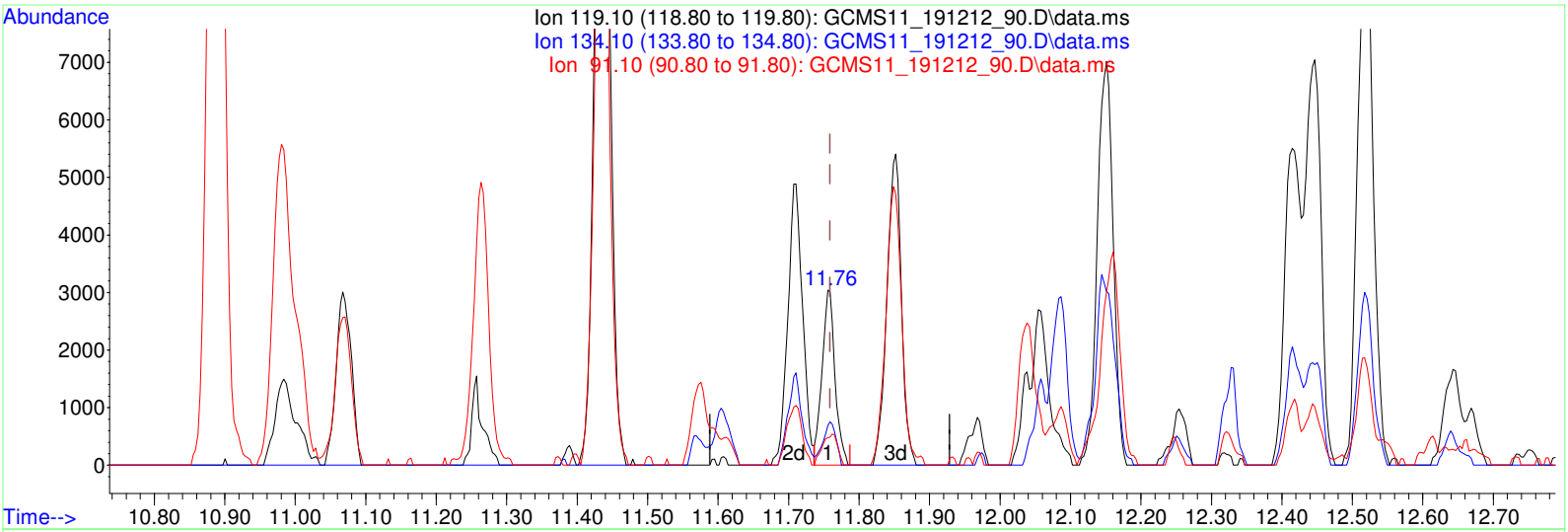
response 7224

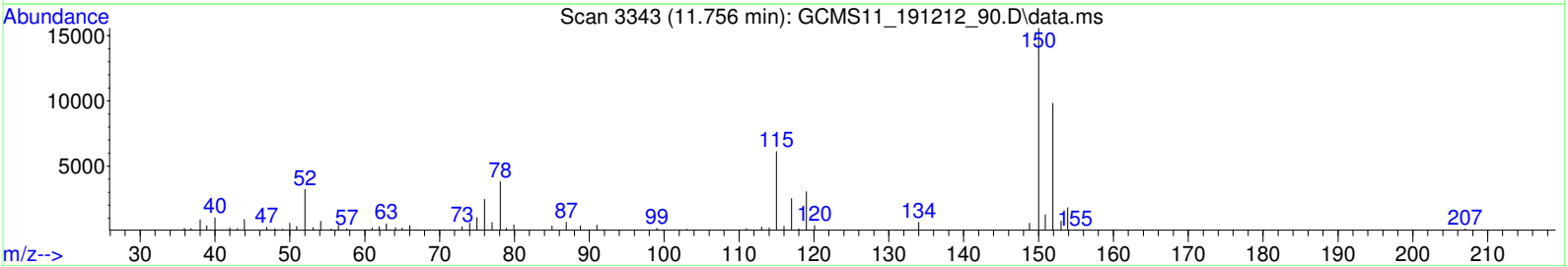
Ion	Exp%	Act%
119.10	100.00	100.00
134.10	27.50	13.54
91.10	21.30	11.16
0.00	0.00	0.00

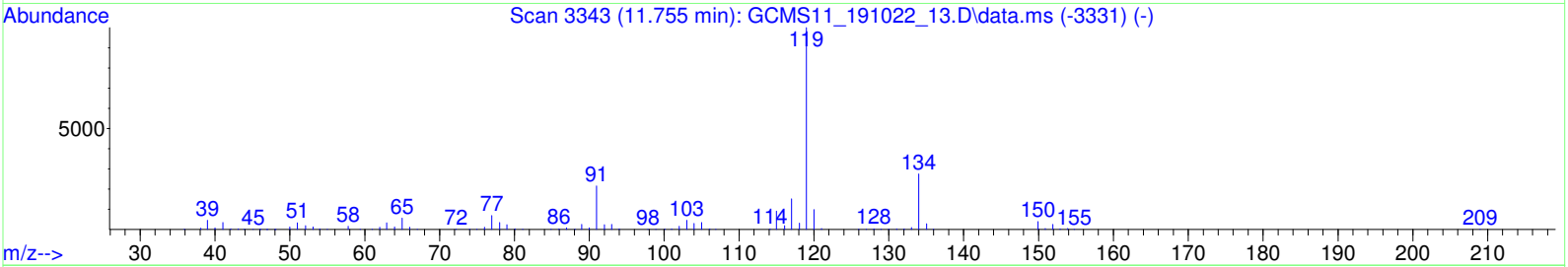
Quantitation Report (Qedit)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_90.D
Acq On : 14 Dec 2019 8:20 am
Operator : ko
Sample : 1912009-08RE1
Misc : LIMS 19L1101, 10X DILUTION
ALS Vial : 65 Sample Multiplier: 1

Quant Time: Dec 16 12:11:15 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_191212_90.D\data.ms

(68) p-Isopropyltoluene (M)

11.756min (-0.003) 3.16 ng

response 3892

Ion	Exp%	Act%
119.10	100.00	100.00
134.10	27.50	25.13
91.10	21.30	20.71
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_76.D
Acq On : 14 Dec 2019 1:32 am
Operator : ko
Sample : 1912009-09RE1
Misc : LIMS 19L1101
ALS Vial : 60 Sample Multiplier: 1

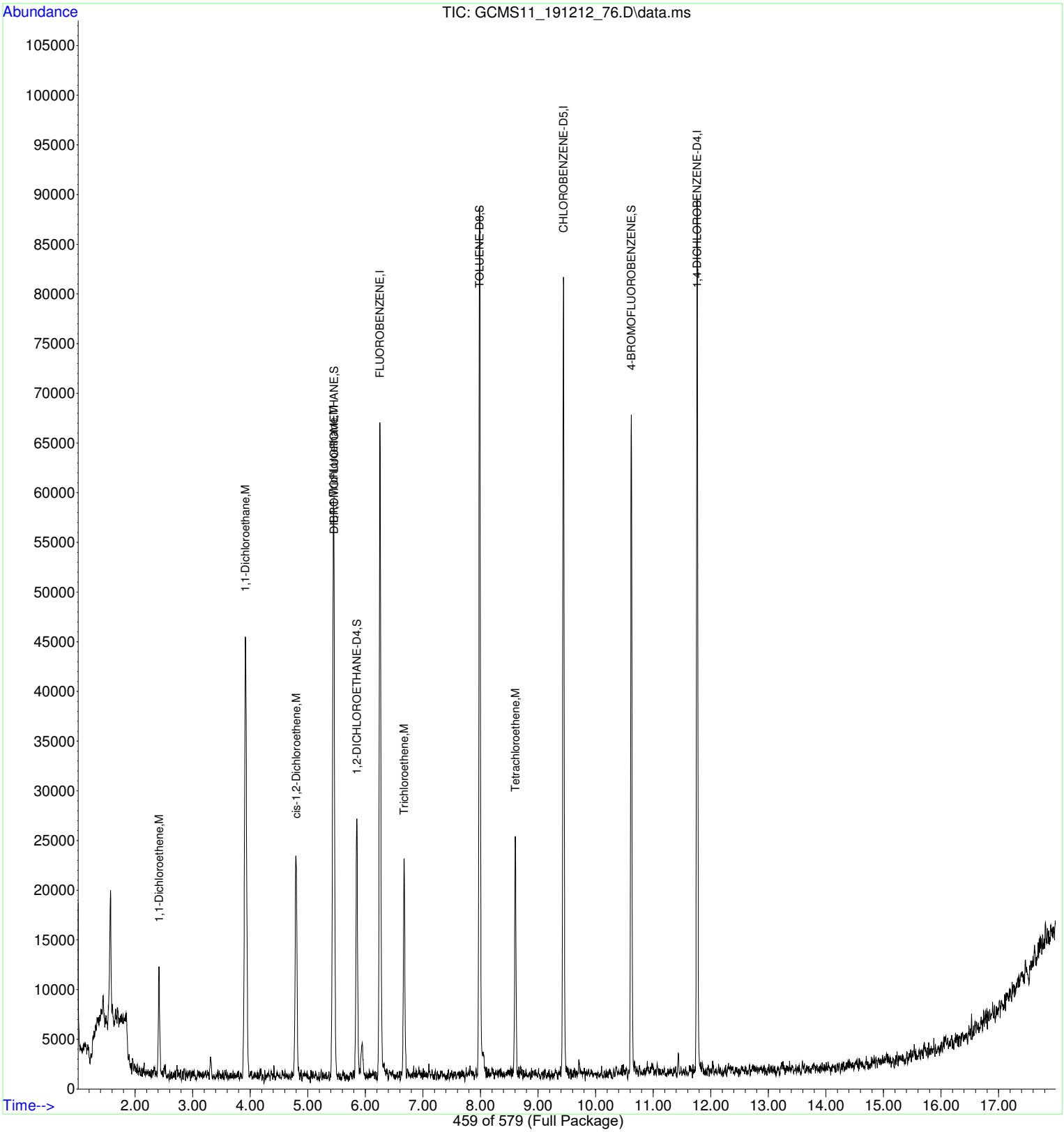
Quant Time: Dec 16 14:08:52 2019
Quant Method : D:\Kelsey\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

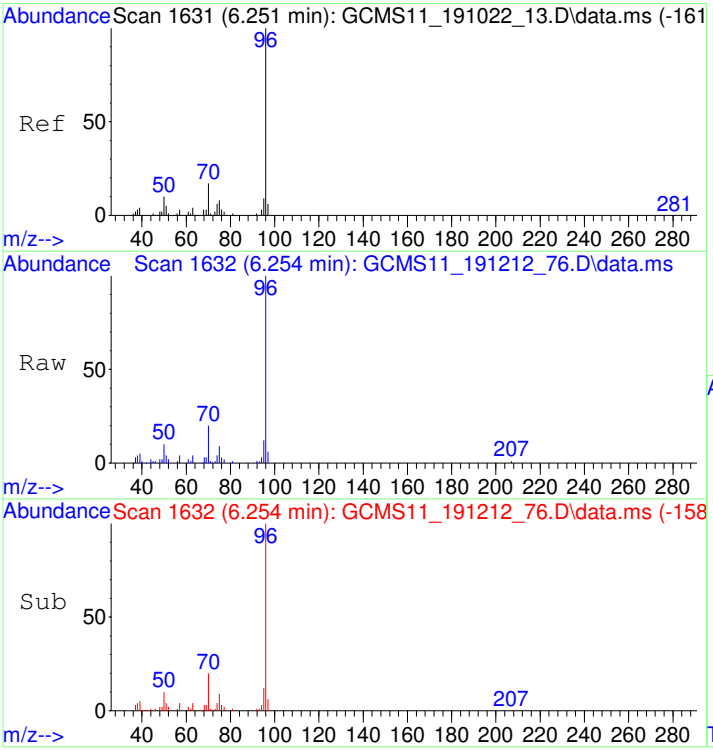
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.25	96	59083	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	22005	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	22765	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.46	113	15860	51.11	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	18395	49.74	ng	0.00
37) TOLUENE-D8	7.98	98	58649	50.47	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	19555	49.01	ng	0.00
Target Compounds						Qvalue
9) 1,1-Dichloroethene	2.42	96	3944	12.84	ng	94
16) 1,1-Dichloroethane	3.92	63	52282	91.58	ng	100
18) cis-1,2-Dichloroethene	4.80	96	12486	33.46	ng	92
23) 1,1,1-Trichloroethane	5.44	97	26128	50.47	ng	94
29) Trichloroethene	6.67	95	6649	19.67	ng	94
42) Tetrachloroethene	8.60	164	4942	17.84	ng	93

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_76.D
Acq On : 14 Dec 2019 1:32 am
Operator : ko
Sample : 1912009-09RE1
Misc : LIMS 19L1101
ALS Vial : 60 Sample Multiplier: 1

Quant Time: Dec 16 14:08:52 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

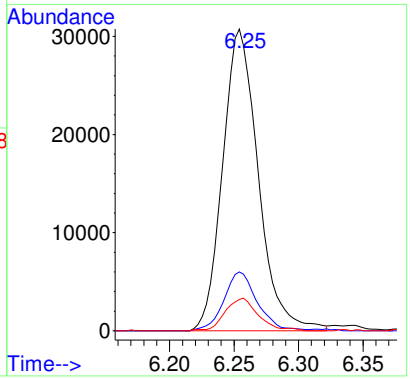


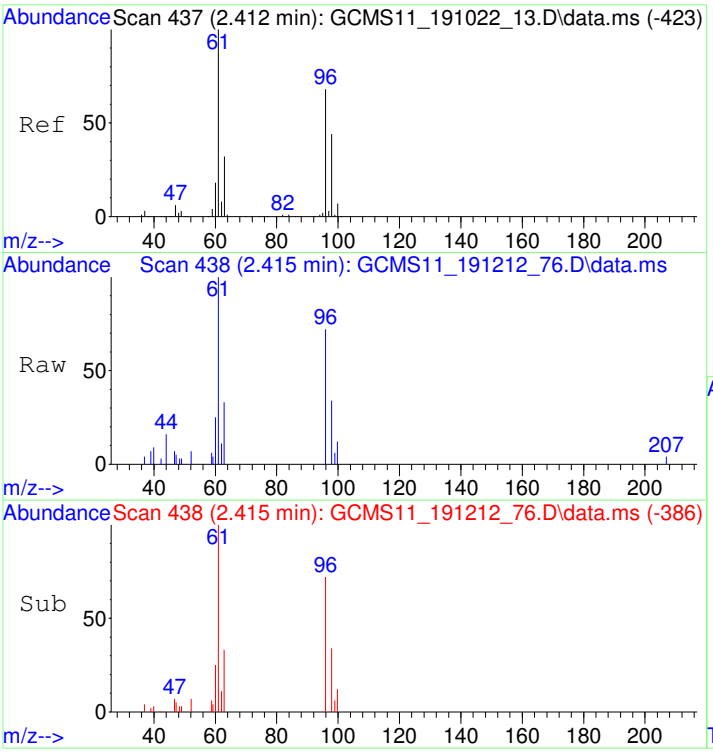


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191212_76.D
Acq: 14 Dec 2019 1:32 am

Tgt Ion: 96 Resp: 59083

Ion	Ratio	Lower	Upper
96	100		
70	18.2	0.0	48.3
50	10.1	0.0	39.5

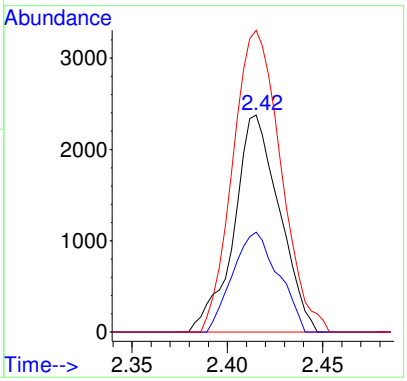


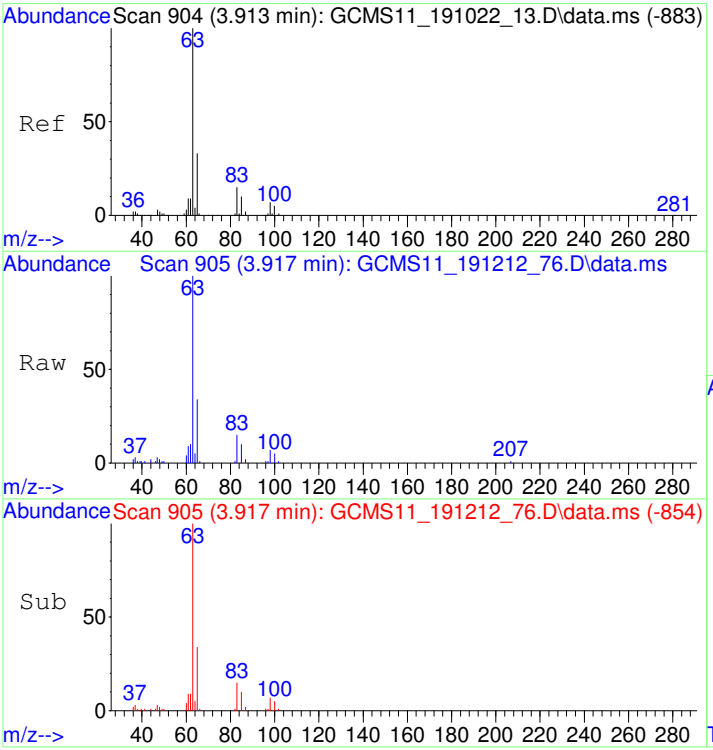


#9
1,1-Dichloroethene
Concen: 12.84 ng
RT: 2.42 min Scan# 438
Delta R.T. -0.003 min
Lab File: GCMS11_191212_76.D
Acq: 14 Dec 2019 1:32 am

Tgt Ion: 96 Resp: 3944

Ion	Ratio	Lower	Upper
96	100		
63	46.2	20.7	80.7
61	146.8	123.9	183.9

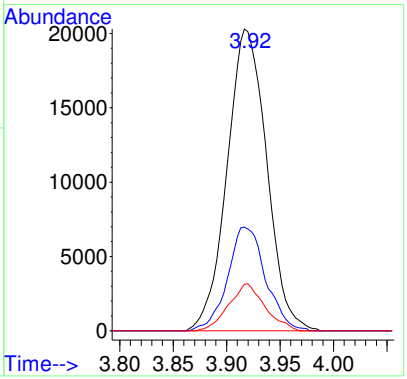


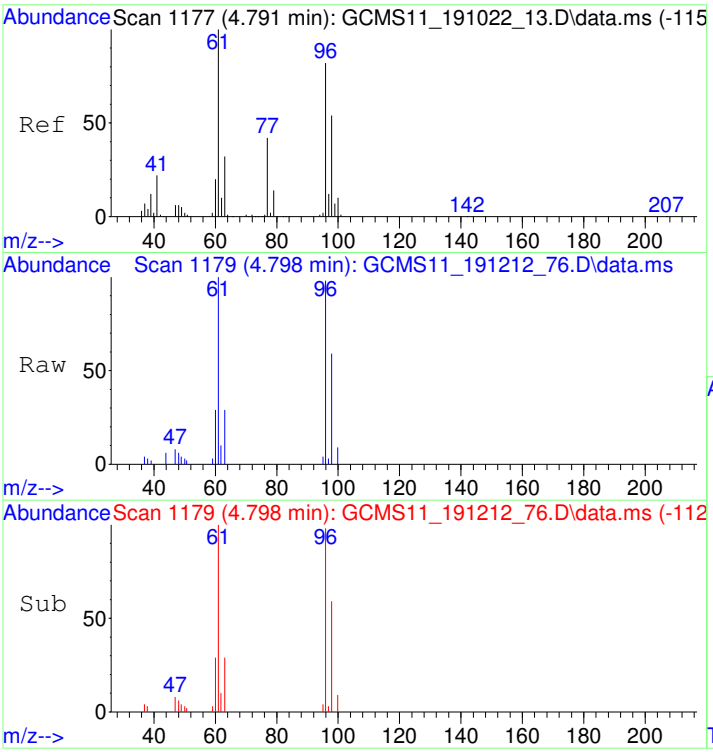


#16
1,1-Dichloroethane
Concen: 91.58 ng
RT: 3.92 min Scan# 905
Delta R.T. -0.006 min
Lab File: GCMS11_191212_76.D
Acq: 14 Dec 2019 1:32 am

Tgt Ion: 63 Resp: 52282

Ion	Ratio	Lower	Upper
63	100		
65	33.0	2.8	62.8
83	14.3	0.0	44.3

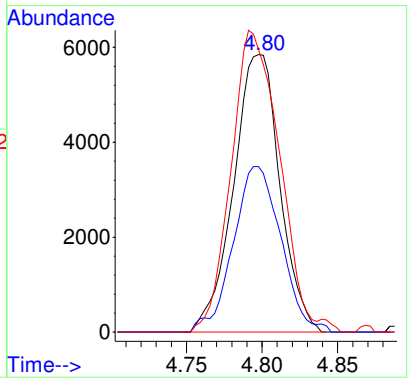


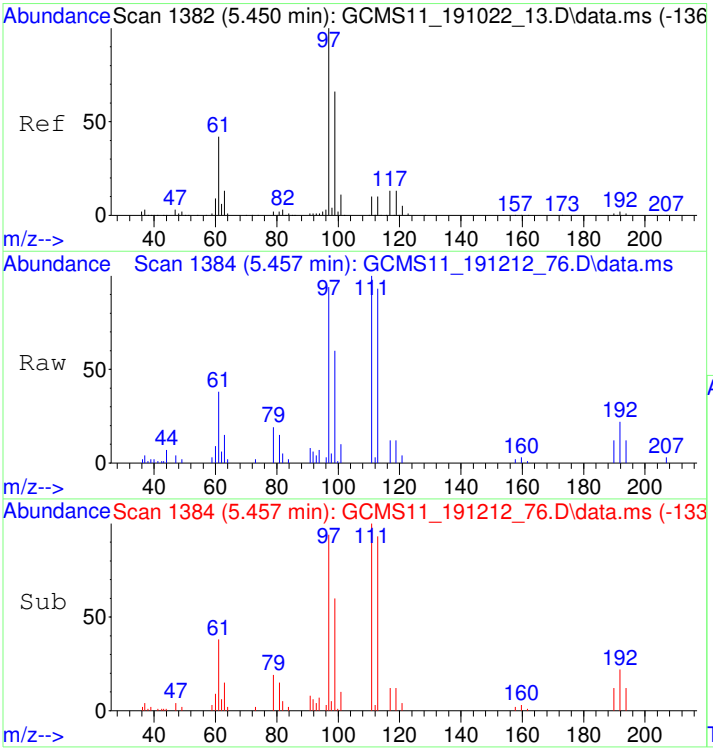


#18
cis-1,2-Dichloroethene
Concen: 33.46 ng
RT: 4.80 min Scan# 1179
Delta R.T. -0.003 min
Lab File: GCMS11_191212_76.D
Acq: 14 Dec 2019 1:32 am

Tgt Ion: 96 Resp: 12486

Ion	Ratio	Lower	Upper
96	100		
98	61.3	30.6	90.6
61	113.7	96.6	156.6

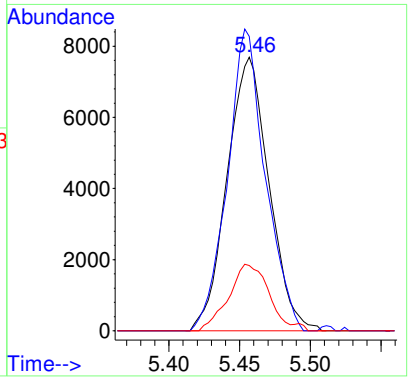


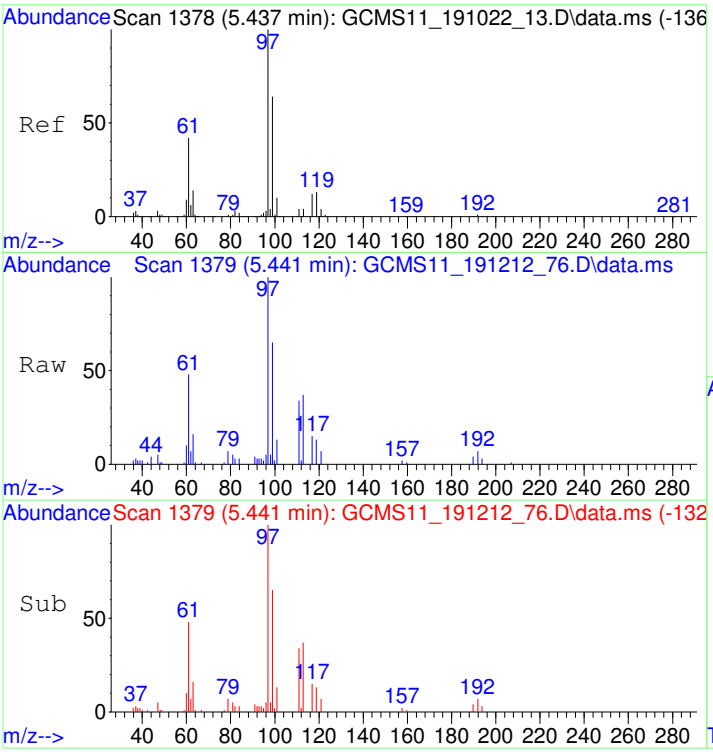


#22
DIBROMOFLUOROMETHANE
Concen: 51.11 ng
RT: 5.46 min Scan# 1384
Delta R.T. -0.003 min
Lab File: GCMS11_191212_76.D
Acq: 14 Dec 2019 1:32 am

Tgt Ion:113 Resp: 15860

Ion	Ratio	Lower	Upper
113	100		
111	99.5	75.2	135.2
192	23.6	0.0	52.1

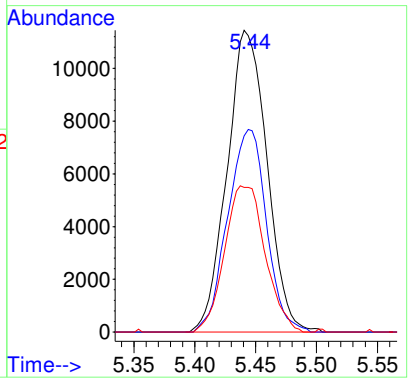


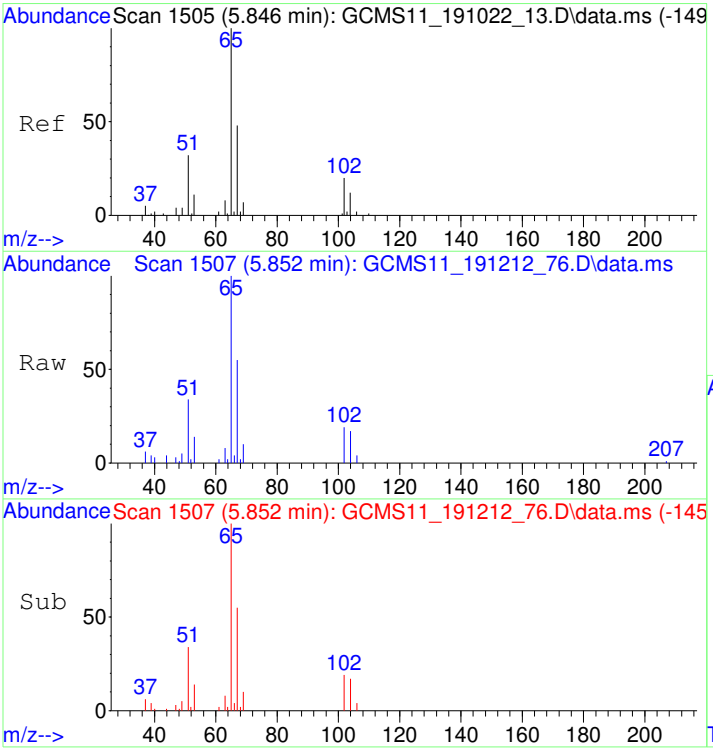


#23
1,1,1-Trichloroethane
Concen: 50.47 ng
RT: 5.44 min Scan# 1379
Delta R.T. -0.003 min
Lab File: GCMS11_191212_76.D
Acq: 14 Dec 2019 1:32 am

Tgt Ion: 97 Resp: 26128

Ion	Ratio	Lower	Upper
97	100		
99	65.1	32.7	92.7
61	49.2	13.1	73.1

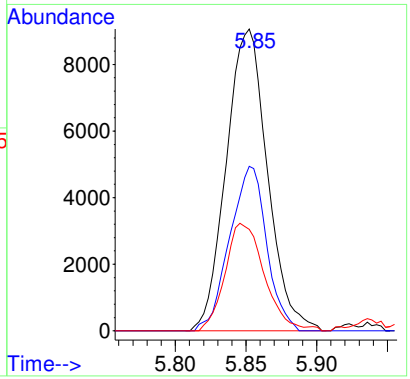


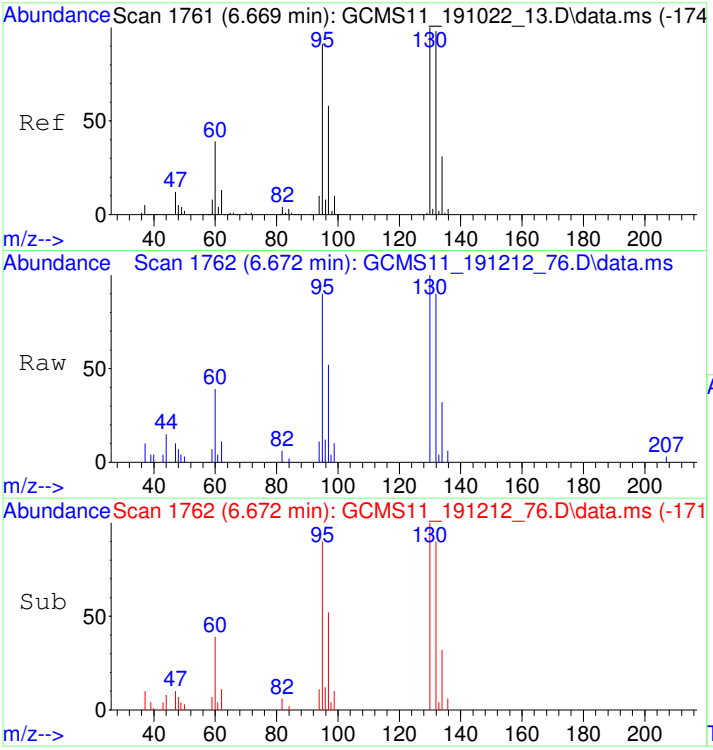


#26
1,2-DICHLOROETHANE-D4
Concen: 49.74 ng
RT: 5.85 min Scan# 1507
Delta R.T. 0.000 min
Lab File: GCMS11_191212_76.D
Acq: 14 Dec 2019 1:32 am

Tgt Ion: 65 Resp: 18395

Ion	Ratio	Lower	Upper
65	100		
67	48.7	15.4	75.4
51	33.9	2.7	62.7

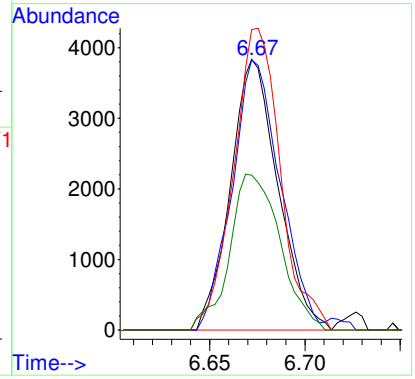


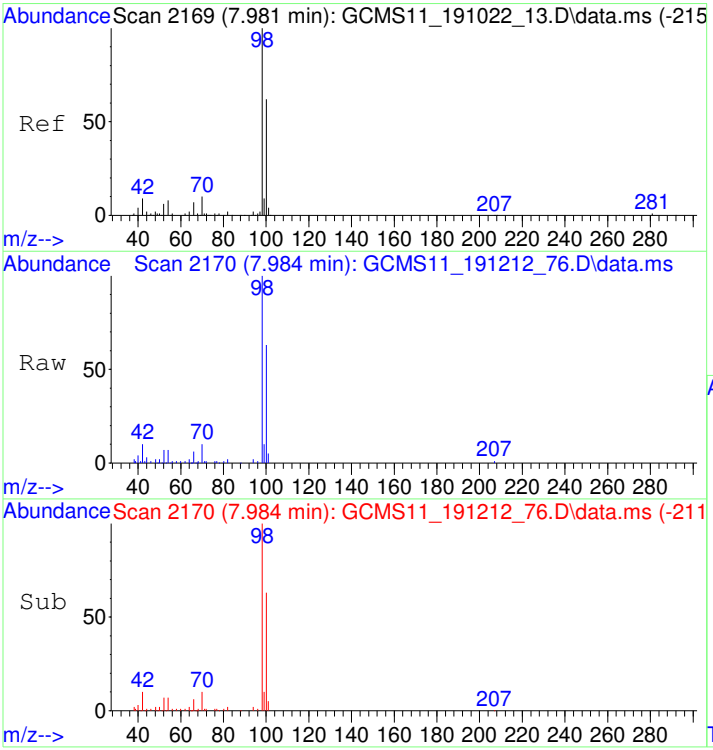


#29
Trichloroethene
Concen: 19.67 ng
RT: 6.67 min Scan# 1762
Delta R.T. -0.003 min
Lab File: GCMS11_191212_76.D
Acq: 14 Dec 2019 1:32 am

Tgt Ion: 95 Resp: 6649

Ion	Ratio	Lower	Upper
95	100		
132	101.6	78.7	138.7
130	110.1	86.1	146.1
97	61.2	37.2	97.2

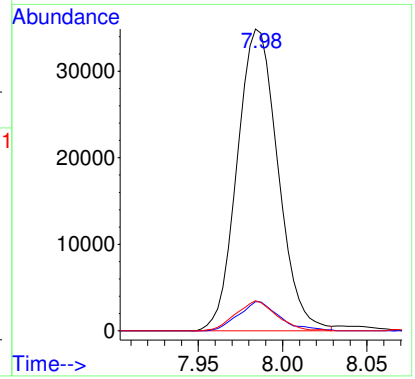


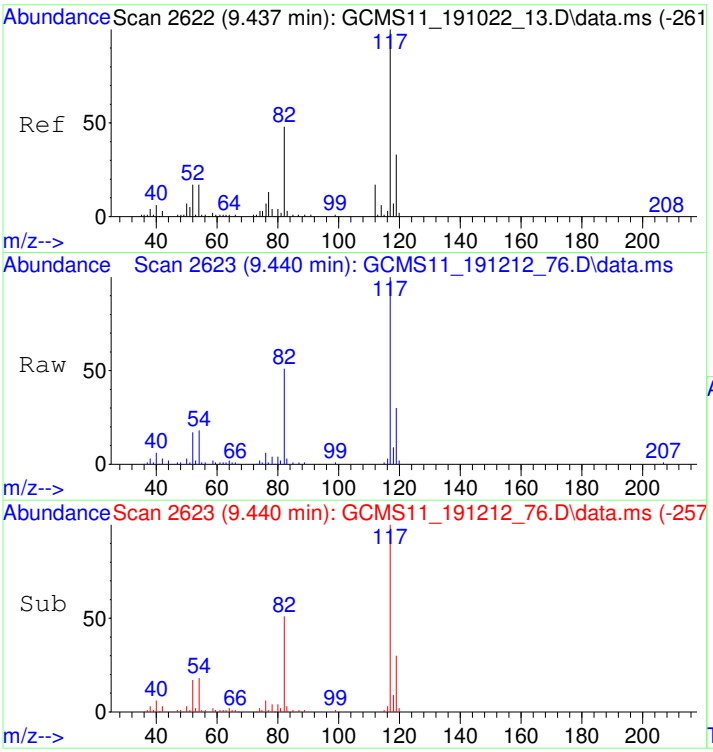


#37
TOLUENE-D8
Concen: 50.47 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191212_76.D
Acq: 14 Dec 2019 1:32 am

Tgt Ion: 98 Resp: 58649

Ion	Ratio	Lower	Upper
98	100		
99	9.7	0.0	39.8
70	9.9	0.0	40.7

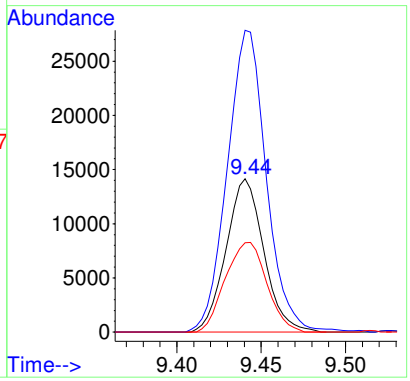


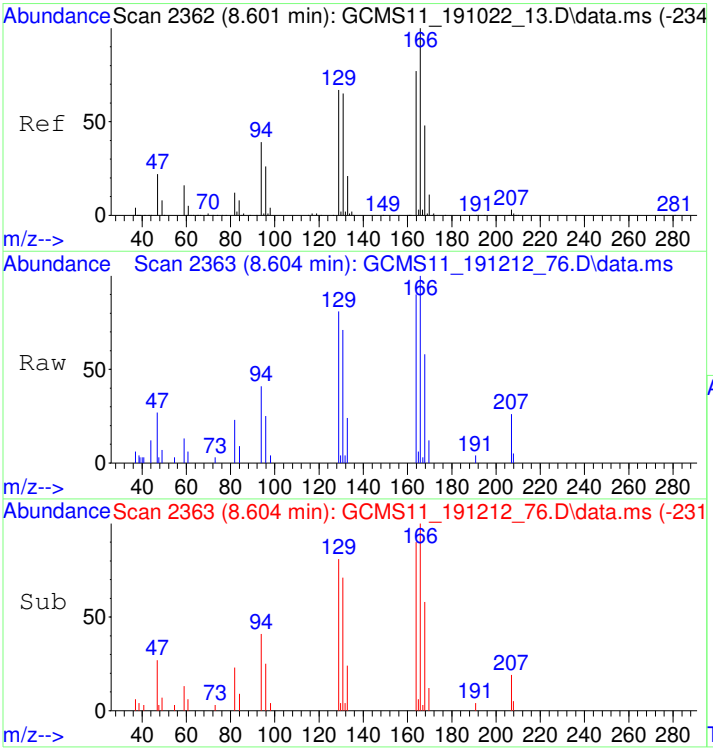


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191212_76.D
Acq: 14 Dec 2019 1:32 am

Tgt Ion: 82 Resp: 22005

Ion	Ratio	Lower	Upper
82	100		
117	203.5	160.7	220.7
119	64.1	33.5	93.5

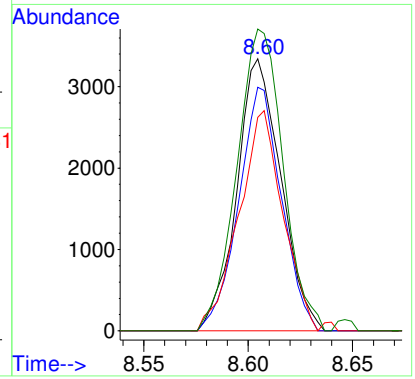


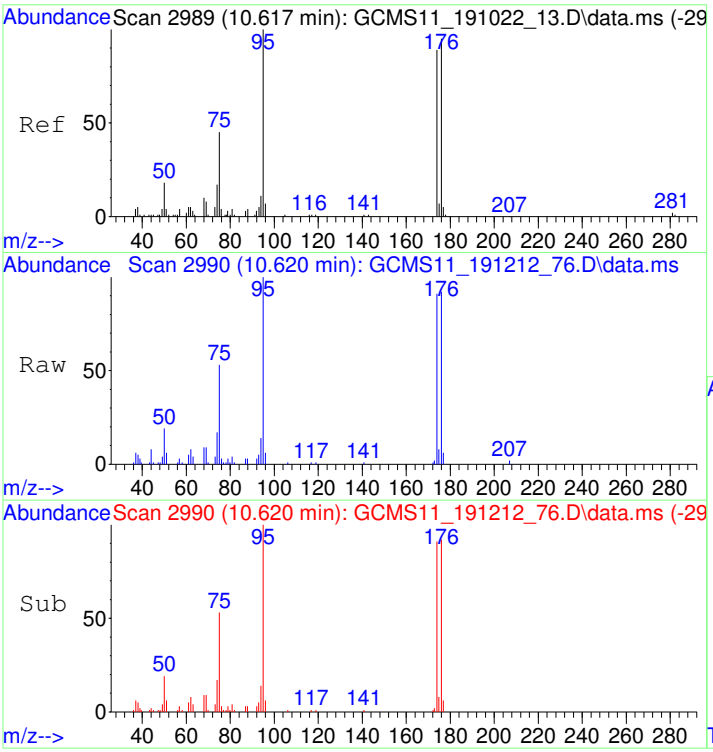


#42
Tetrachloroethene
Concen: 17.84 ng
RT: 8.60 min Scan# 2363
Delta R.T. 0.000 min
Lab File: GCMS11_191212_76.D
Acq: 14 Dec 2019 1:32 am

Tgt Ion:164 Resp: 4942

Ion	Ratio	Lower	Upper
164	100		
129	86.8	57.5	117.5
131	80.7	55.8	115.8
166	116.1	99.4	159.4

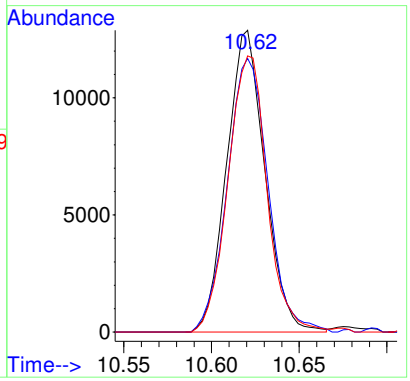


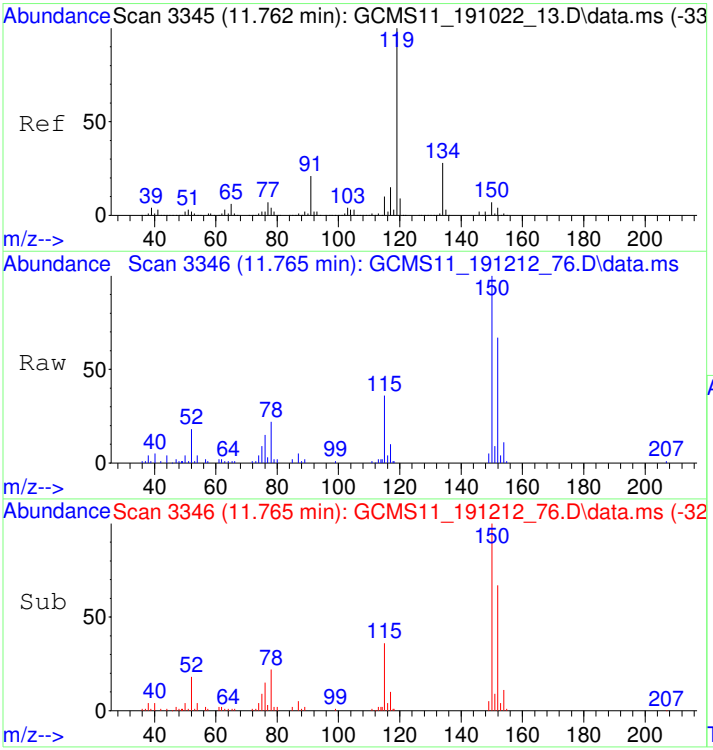


#55
4-BROMOFLUOROBENZENE
Concen: 49.01 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191212_76.D
Acq: 14 Dec 2019 1:32 am

Tgt Ion: 95 Resp: 19555

Ion	Ratio	Lower	Upper
95	100		
174	96.3	68.5	128.5
176	93.2	66.8	126.8

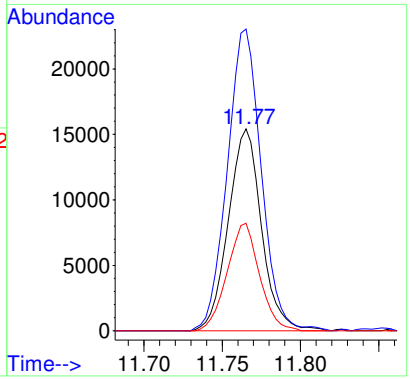




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_76.D
Acq: 14 Dec 2019 1:32 am

Tgt Ion:152 Resp: 22765

Ion	Ratio	Lower	Upper
152	100		
150	152.7	162.5	222.5#
115	51.7	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_74.D
Acq On : 14 Dec 2019 12:35 am
Operator : ko
Sample : 1912009-10RE1
Misc : LIMS 19L1101
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 14:06:48 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

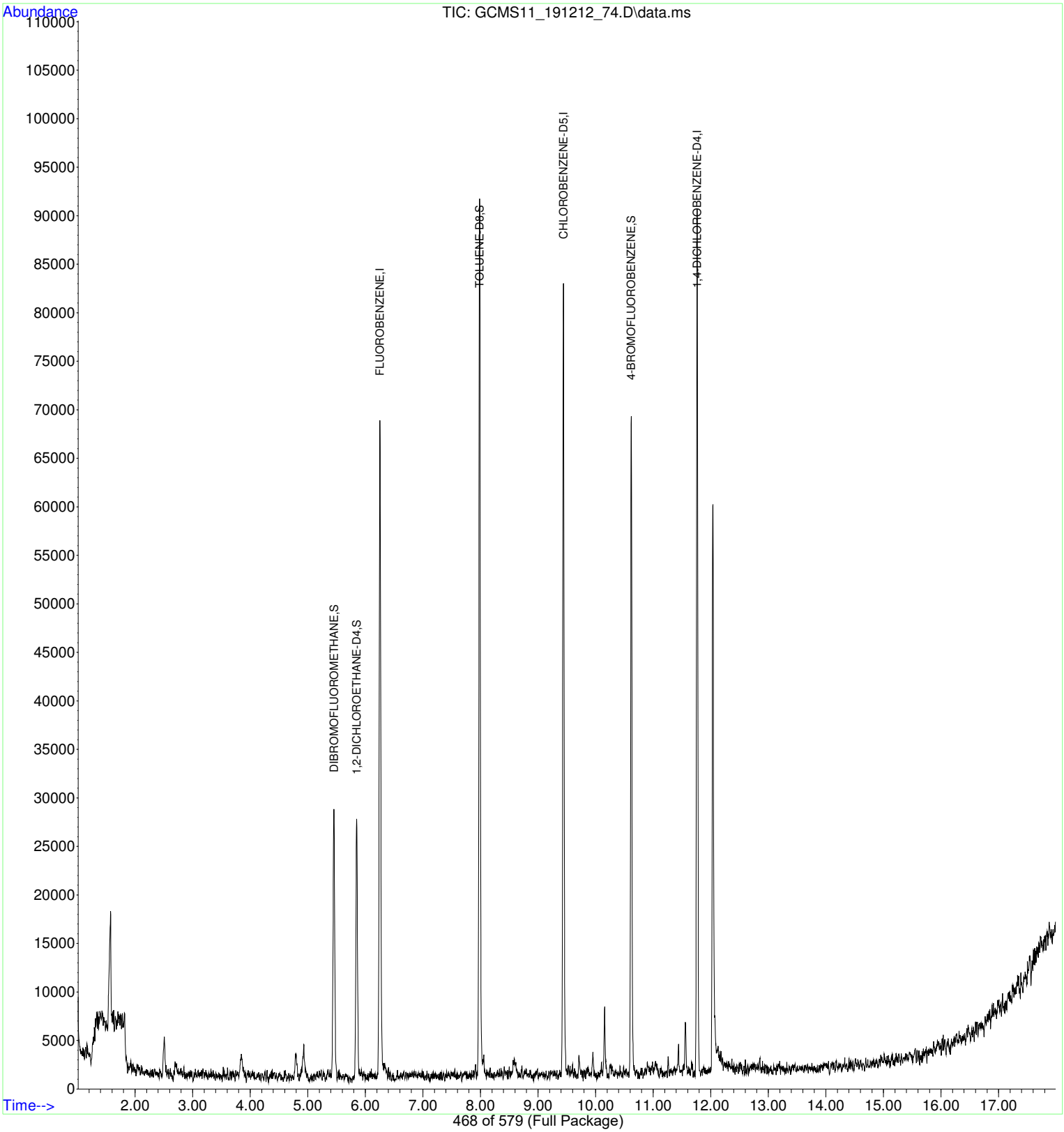
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) FLUOROBENZENE	6.25	96	60186	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	22547	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	22838	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.46	113	15396	48.71 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	18659	49.53 ng	0.00
37) TOLUENE-D8	7.98	98	58668	49.56 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	19881	48.63 ng	0.00

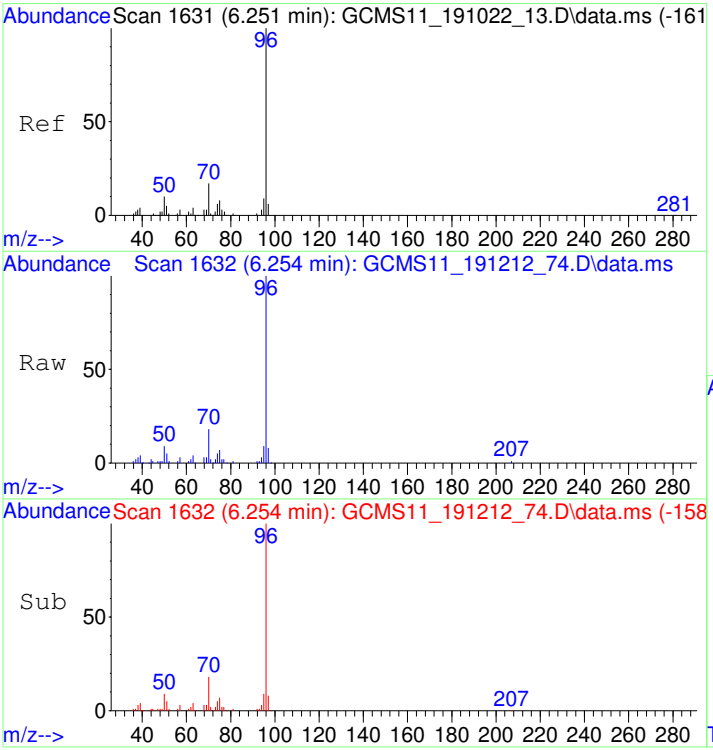
Target Compounds	Qvalue

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

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_74.D
Acq On : 14 Dec 2019 12:35 am
Operator : ko
Sample : 1912009-10RE1
Misc : LIMS 19L1101
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Dec 16 14:06:48 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

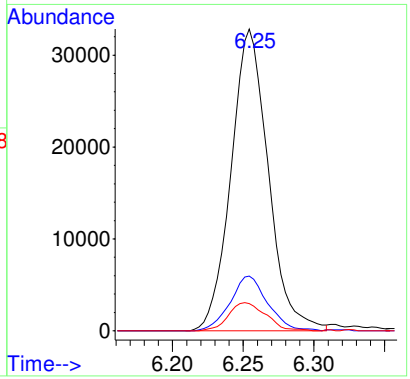


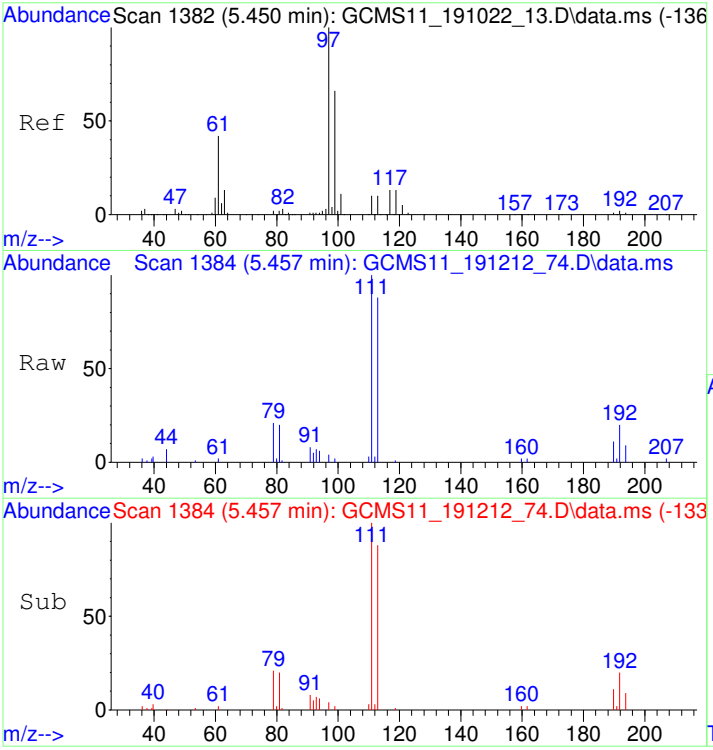


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.25 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191212_74.D
Acq: 14 Dec 2019 12:35 am

Tgt Ion: 96 Resp: 60186

Ion	Ratio	Lower	Upper
96	100		
70	18.2	0.0	48.3
50	9.4	0.0	39.5

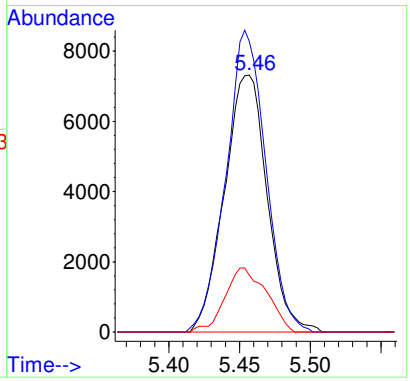


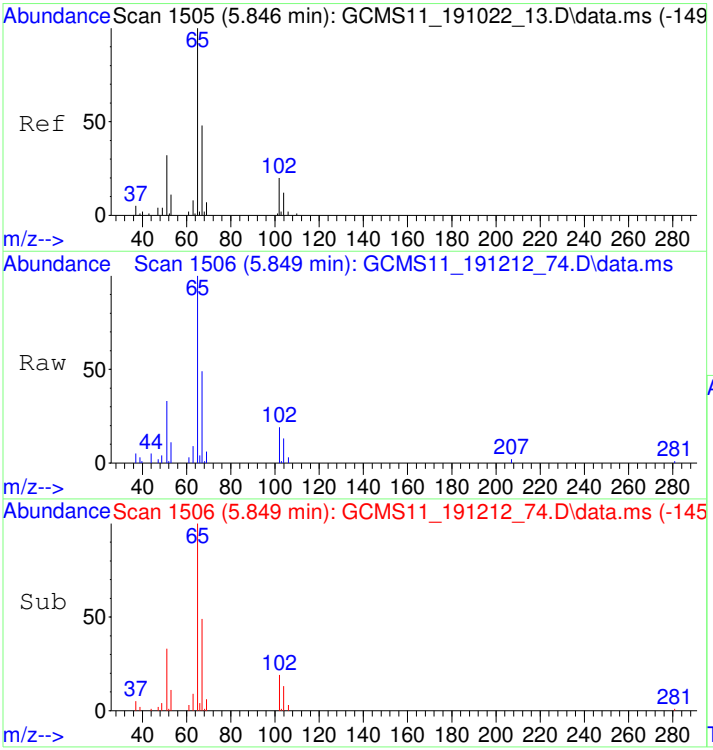


#22
DIBROMOFLUOROMETHANE
Concen: 48.71 ng
RT: 5.46 min Scan# 1384
Delta R.T. -0.003 min
Lab File: GCMS11_191212_74.D
Acq: 14 Dec 2019 12:35 am

Tgt Ion:113 Resp: 15396

Ion	Ratio	Lower	Upper
113	100		
111	109.1	75.2	135.2
192	24.2	0.0	52.1

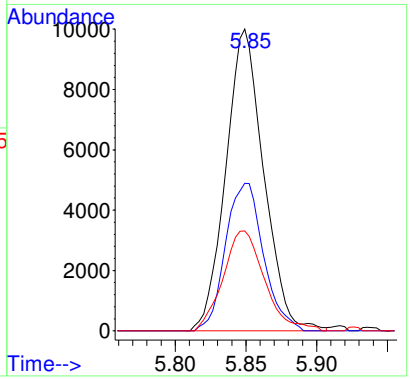


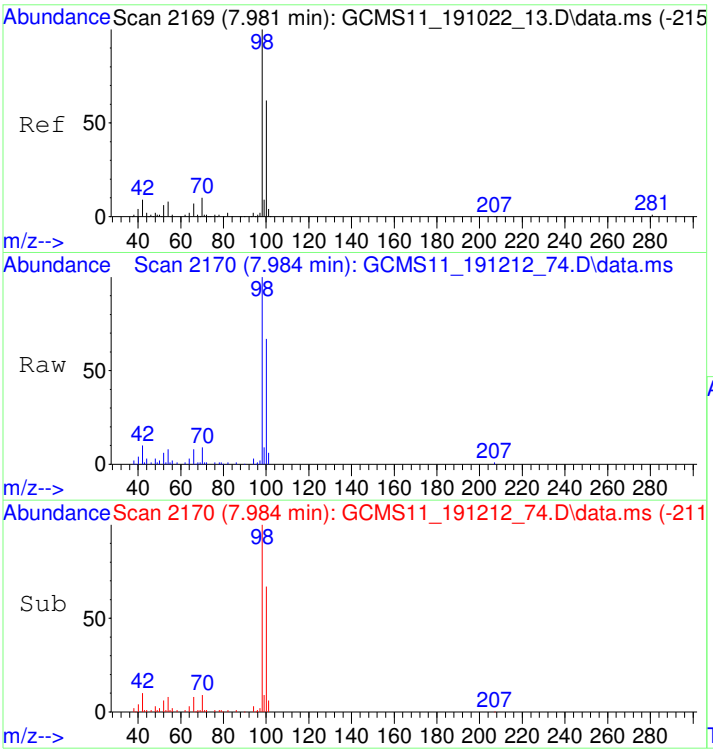


#26
1,2-DICHLOROETHANE-D4
Concen: 49.53 ng
RT: 5.85 min Scan# 1506
Delta R.T. -0.003 min
Lab File: GCMS11_191212_74.D
Acq: 14 Dec 2019 12:35 am

Tgt Ion: 65 Resp: 18659

Ion	Ratio	Lower	Upper
65	100		
67	48.8	15.4	75.4
51	36.3	2.7	62.7

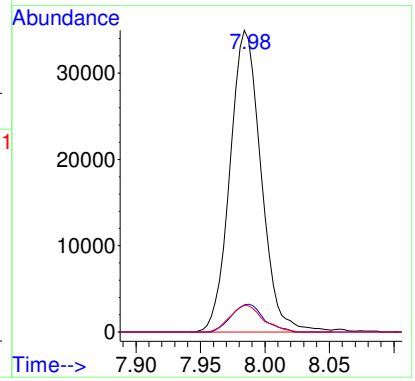


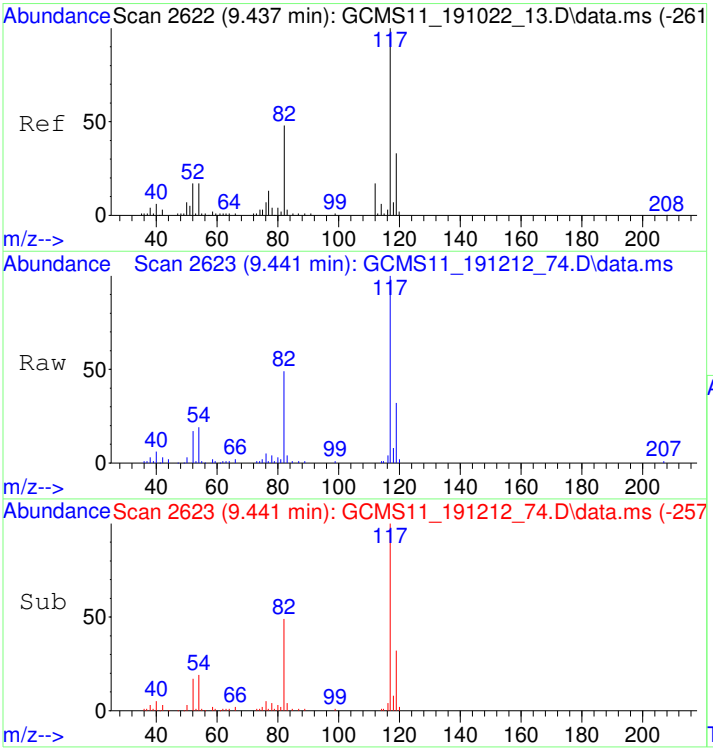


#37
TOLUENE-D8
Concen: 49.56 ng
RT: 7.98 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191212_74.D
Acq: 14 Dec 2019 12:35 am

Tgt Ion: 98 Resp: 58668

Ion	Ratio	Lower	Upper
98	100		
99	9.6	0.0	39.8
70	9.4	0.0	40.7

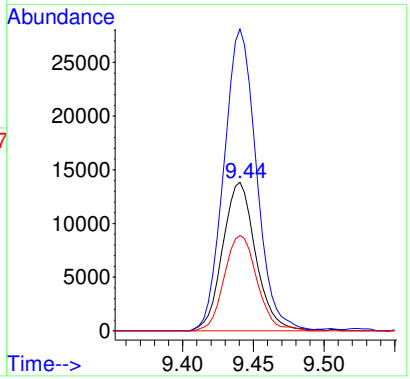


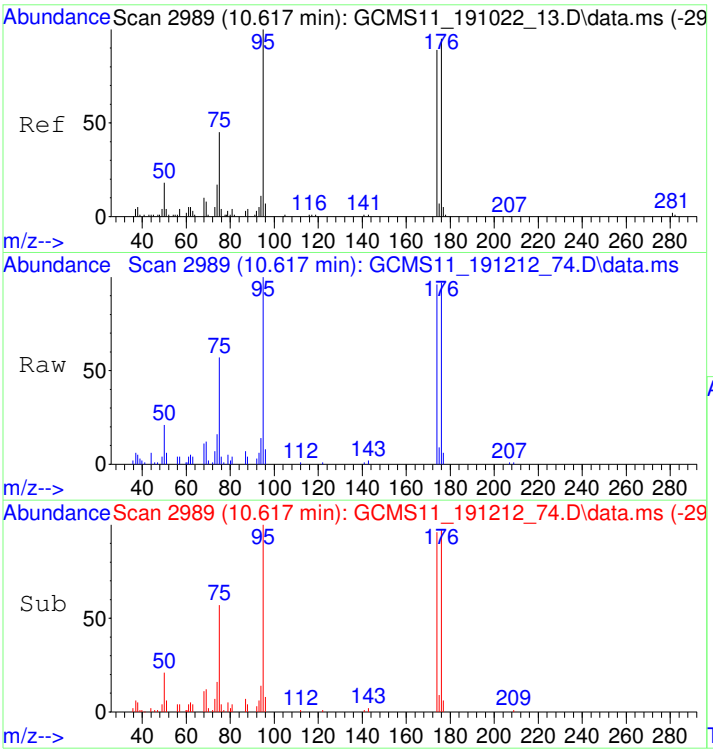


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.001 min
Lab File: GCMS11_191212_74.D
Acq: 14 Dec 2019 12:35 am

Tgt Ion: 82 Resp: 22547

Ion	Ratio	Lower	Upper
82	100		
117	200.0	160.7	220.7
119	63.5	33.5	93.5

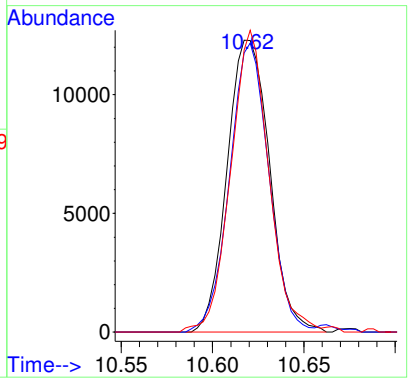


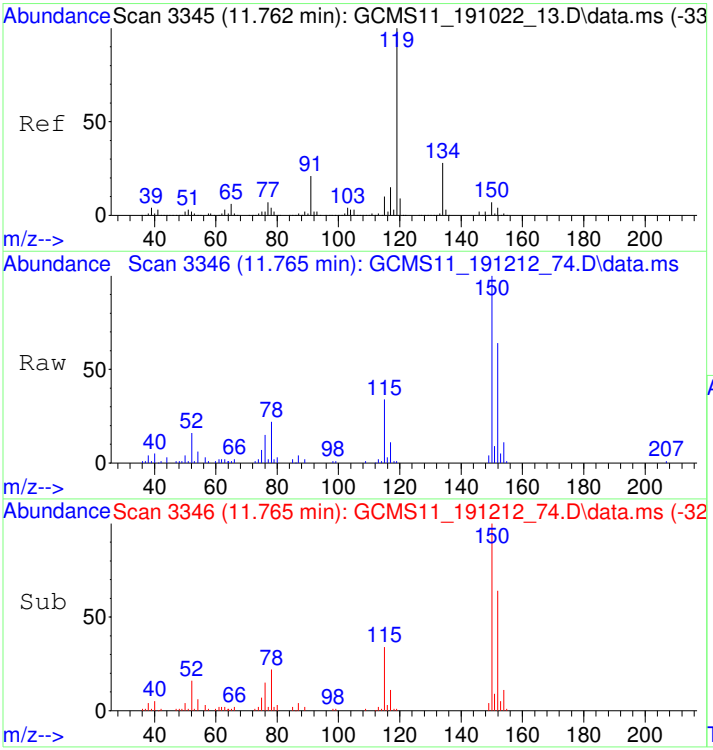


#55
4-BROMOFLUOROBENZENE
Concen: 48.63 ng
RT: 10.62 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191212_74.D
Acq: 14 Dec 2019 12:35 am

Tgt Ion: 95 Resp: 19881

Ion	Ratio	Lower	Upper
95	100		
174	91.6	68.5	128.5
176	93.4	66.8	126.8

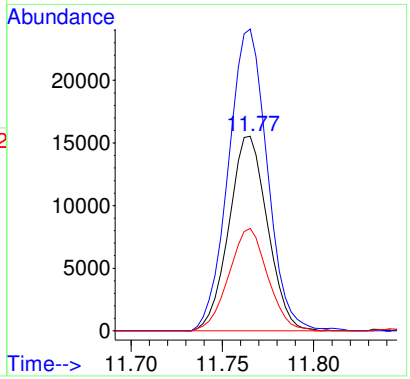




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_74.D
Acq: 14 Dec 2019 12:35 am

Tgt Ion:152 Resp: 22838

Ion	Ratio	Lower	Upper
152	100		
150	156.8	162.5	222.5#
115	53.0	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_71.D
Acq On : 13 Dec 2019 11:10 pm
Operator : ko
Sample : 1912009-11RE1
Misc : LIMS 19L1101
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 16 14:03:22 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

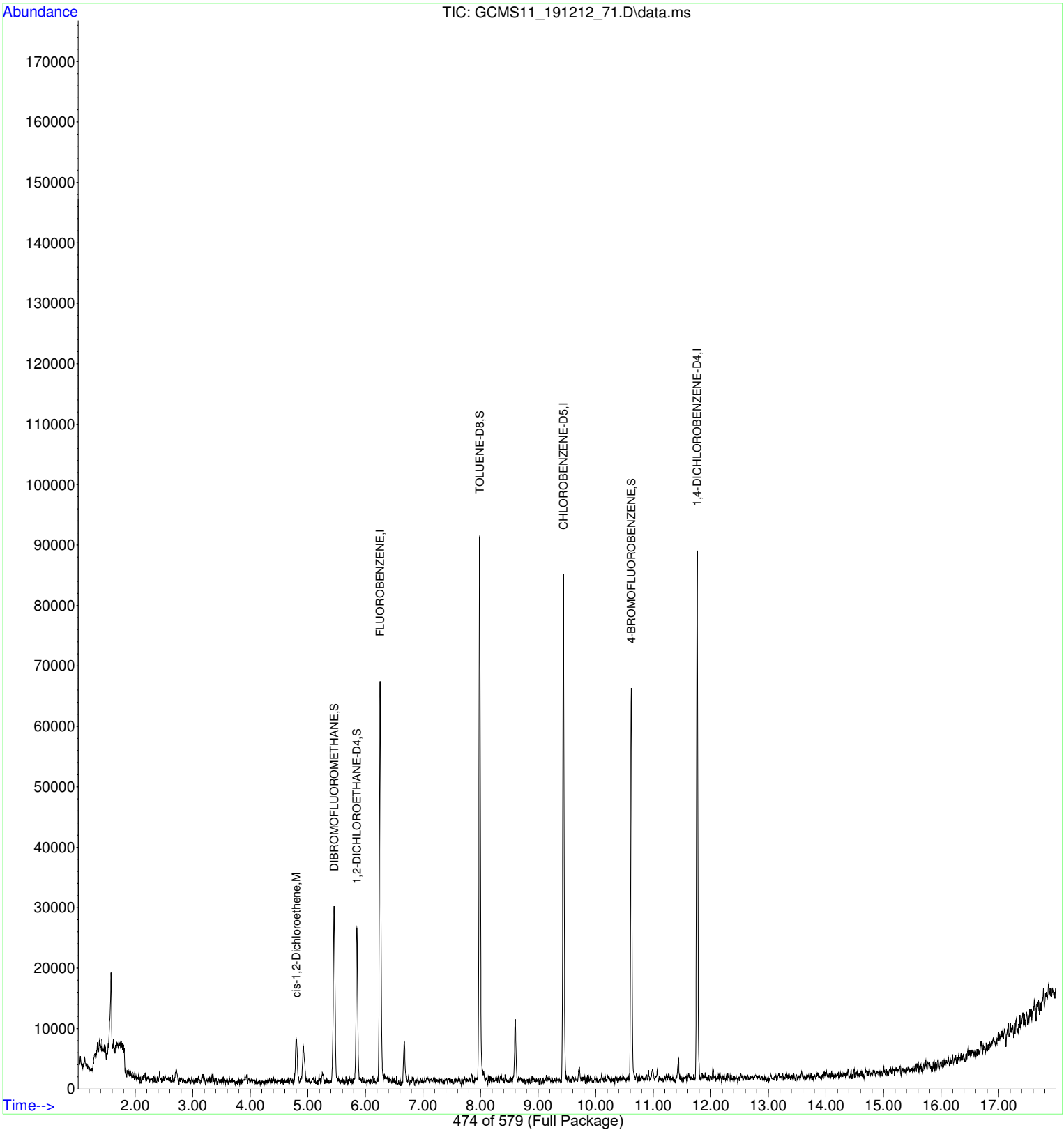
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.26	96	60806	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.44	82	21959	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	21846	50.00	ng	# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.46	113	15627	48.93	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	17727	46.58	ng	0.00
37) TOLUENE-D8	7.99	98	58725	49.11	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	19400	48.73	ng	0.00
Target Compounds						Qvalue
18) cis-1,2-Dichloroethene	4.80	96	3965	10.33	ng	84

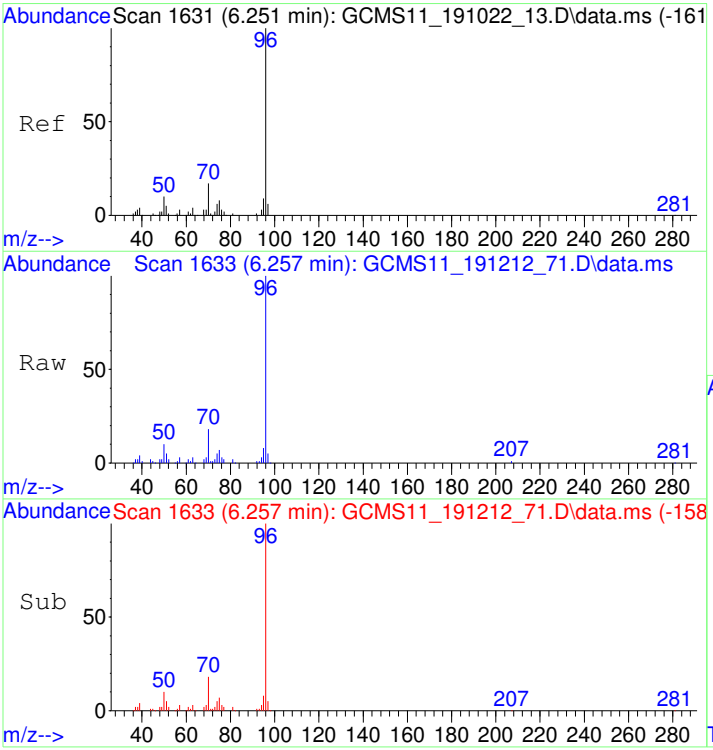
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_71.D
Acq On : 13 Dec 2019 11:10 pm
Operator : ko
Sample : 1912009-11RE1
Misc : LIMS 19L1101
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Dec 16 14:03:22 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

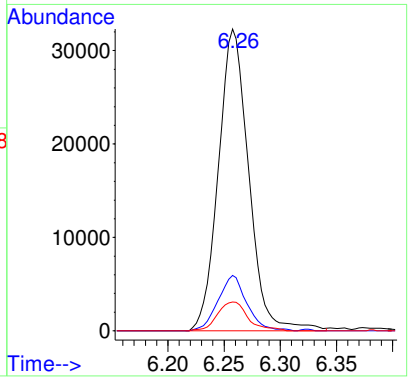


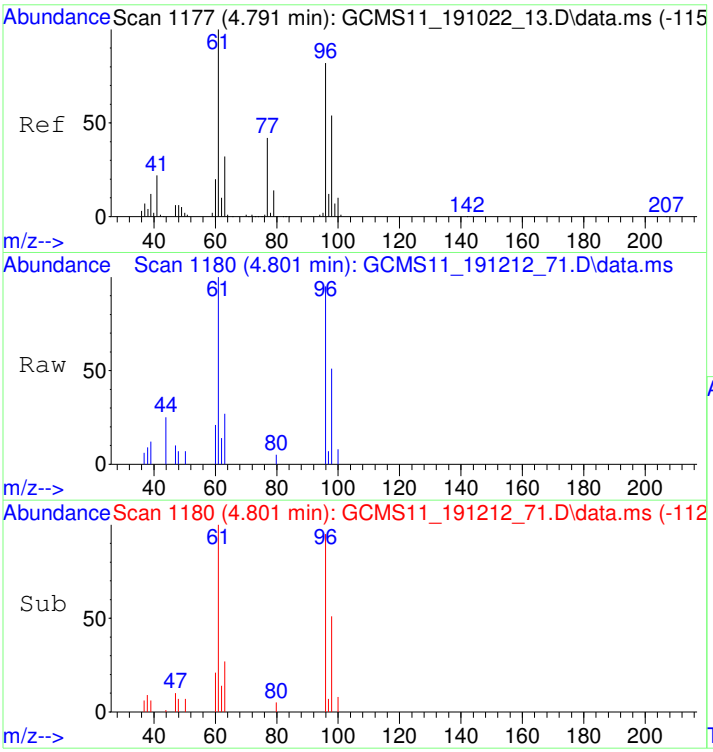


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.26 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191212_71.D
Acq: 13 Dec 2019 11:10 pm

Tgt Ion: 96 Resp: 60806

Ion	Ratio	Lower	Upper
96	100		
70	17.2	0.0	48.3
50	9.6	0.0	39.5

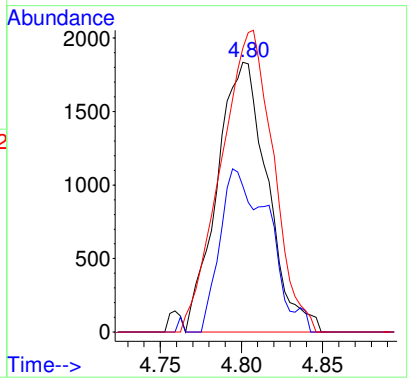


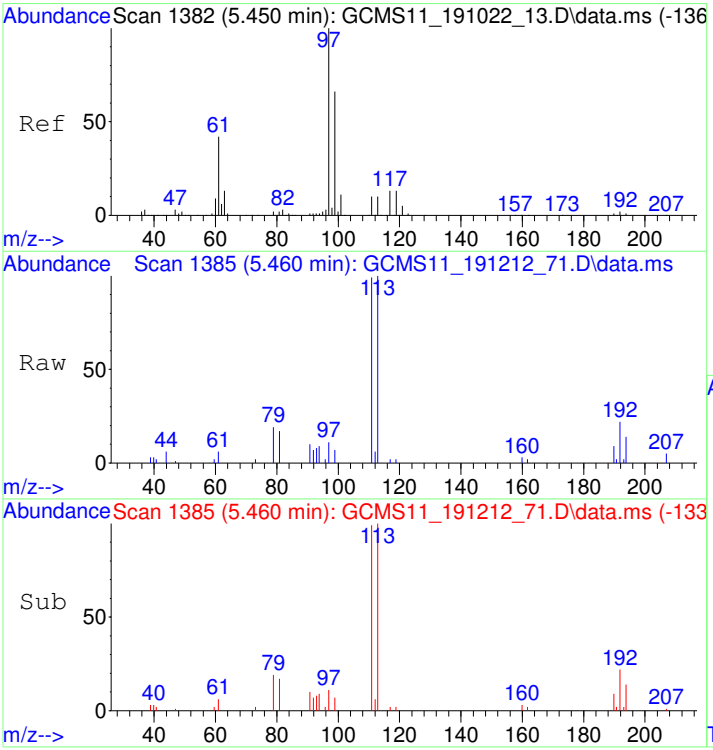


#18
cis-1,2-Dichloroethene
Concen: 10.33 ng
RT: 4.80 min Scan# 1180
Delta R.T. 0.000 min
Lab File: GCMS11_191212_71.D
Acq: 13 Dec 2019 11:10 pm

Tgt Ion: 96 Resp: 3965

Ion	Ratio	Lower	Upper
96	100		
98	36.8	30.6	90.6
61	116.1	96.6	156.6

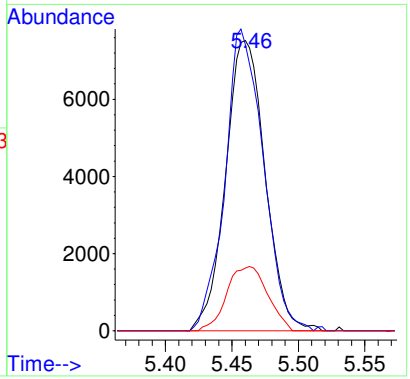


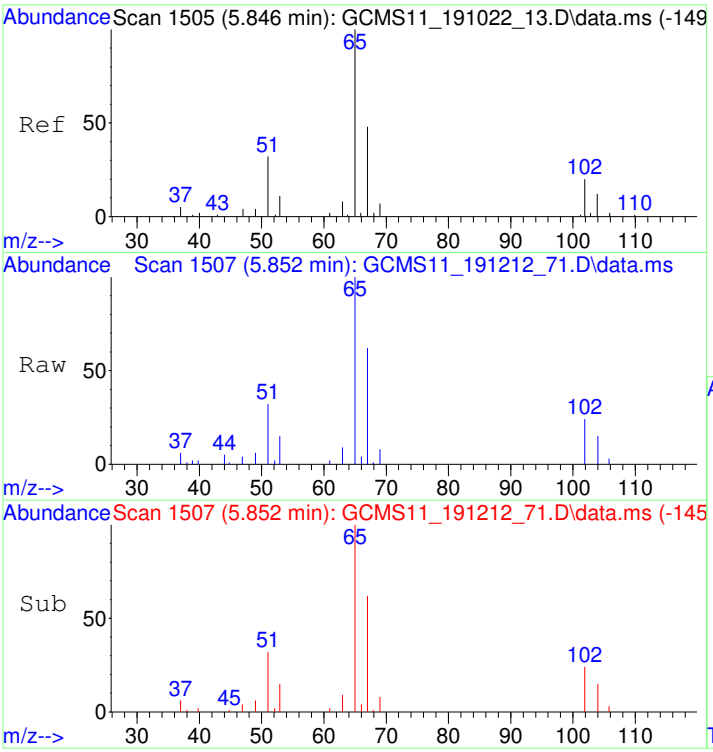


#22
DIBROMOFLUOROMETHANE
Concen: 48.93 ng
RT: 5.46 min Scan# 1385
Delta R.T. 0.000 min
Lab File: GCMS11_191212_71.D
Acq: 13 Dec 2019 11:10 pm

Tgt Ion:113 Resp: 15627

Ion	Ratio	Lower	Upper
113	100		
111	100.3	75.2	135.2
192	22.8	0.0	52.1

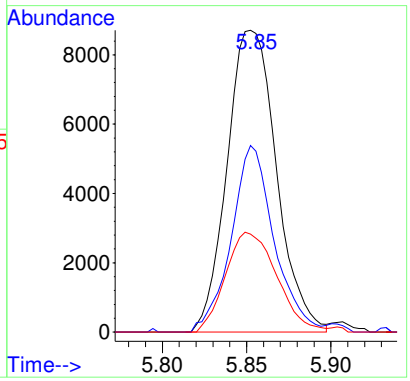


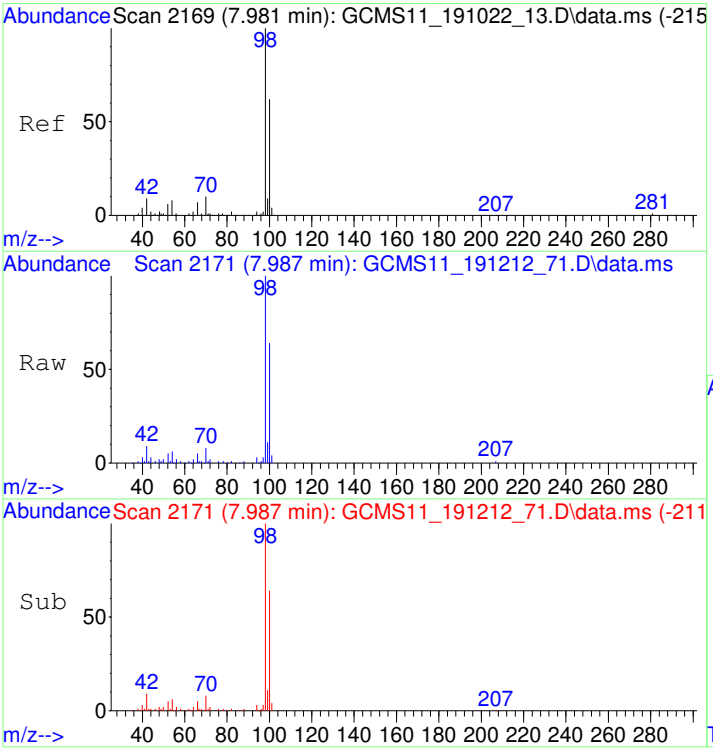


#26
1,2-DICHLOROETHANE-D4
Concen: 46.58 ng
RT: 5.85 min Scan# 1507
Delta R.T. 0.000 min
Lab File: GCMS11_191212_71.D
Acq: 13 Dec 2019 11:10 pm

Tgt Ion: 65 Resp: 17727

Ion	Ratio	Lower	Upper
65	100		
67	53.5	15.4	75.4
51	34.4	2.7	62.7

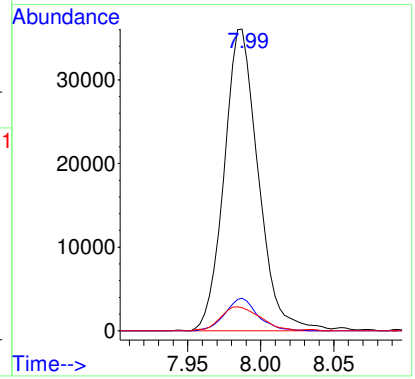


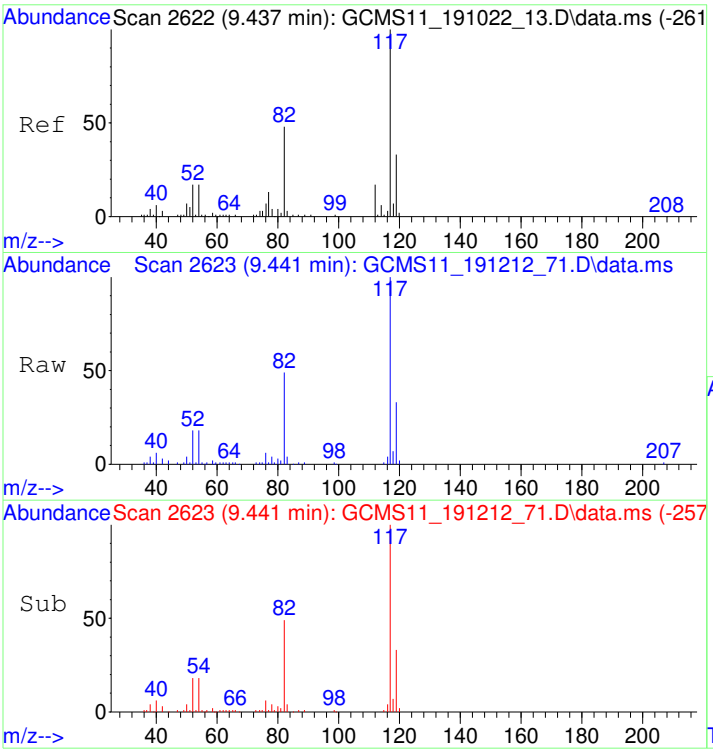


#37
TOLUENE-D8
Concen: 49.11 ng
RT: 7.99 min Scan# 2171
Delta R.T. 0.003 min
Lab File: GCMS11_191212_71.D
Acq: 13 Dec 2019 11:10 pm

Tgt Ion: 98 Resp: 58725

Ion	Ratio	Lower	Upper
98	100		
99	10.3	0.0	39.8
70	9.3	0.0	40.7

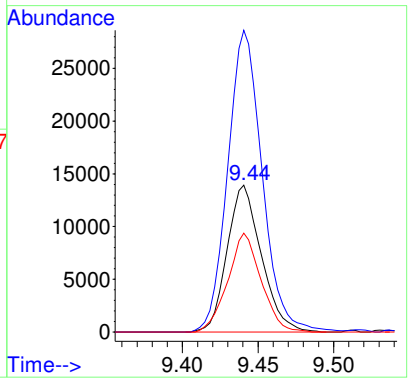


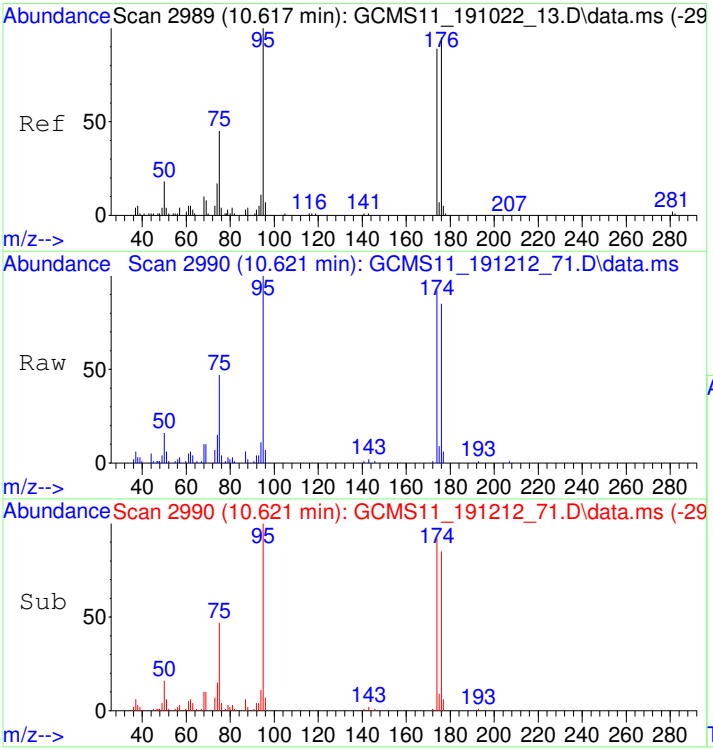


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.44 min Scan# 2623
Delta R.T. 0.001 min
Lab File: GCMS11_191212_71.D
Acq: 13 Dec 2019 11:10 pm

Tgt Ion: 82 Resp: 21959

Ion	Ratio	Lower	Upper
82	100		
117	206.8	160.7	220.7
119	65.4	33.5	93.5

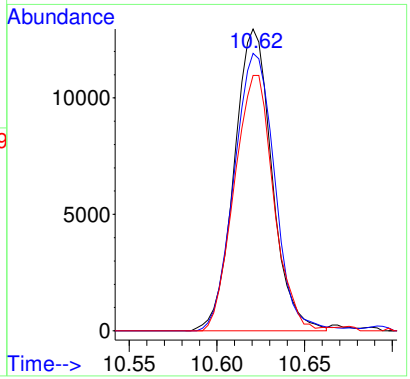


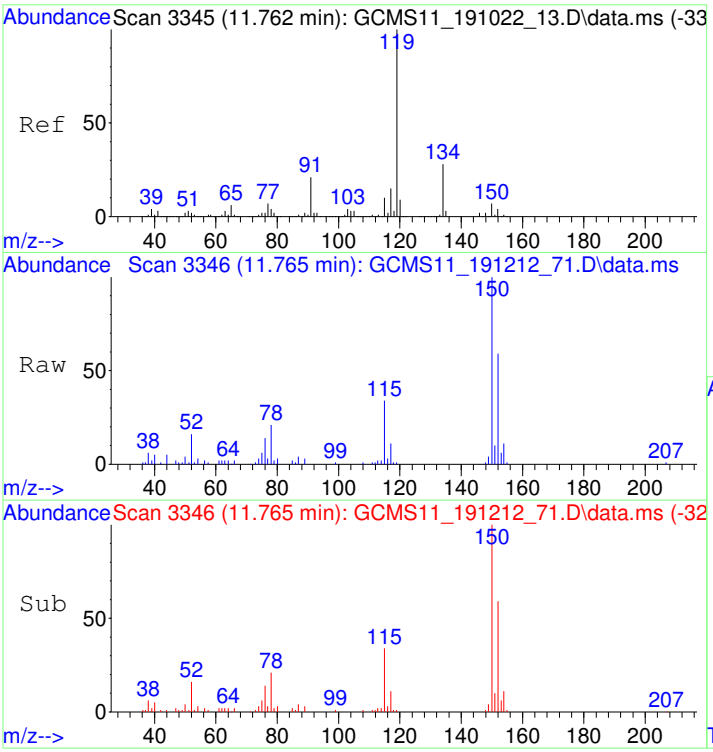


#55
4-BROMOFLUOROBENZENE
Concen: 48.73 ng
RT: 10.62 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191212_71.D
Acq: 13 Dec 2019 11:10 pm

Tgt Ion: 95 Resp: 19400

Ion	Ratio	Lower	Upper
95	100		
174	98.7	68.5	128.5
176	88.2	66.8	126.8

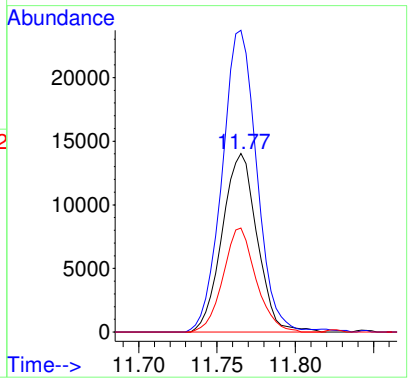




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.77 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191212_71.D
Acq: 13 Dec 2019 11:10 pm

Tgt Ion:152 Resp: 21846

Ion	Ratio	Lower	Upper
152	100		
150	167.1	162.5	222.5
115	54.7	82.3	142.3#



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: 12/20/2019

Volatiles in WATER Preparation Bench Sheet

Analyst(s): Kelsey O'Malley

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

Batch Number: B19L026
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
1912009-02RE2						5	\				
1912009-08RE2						5	\				5x Atomx dilution
1912011-03RE2						5	\				
1912011-07RE2						5	\				
1912011-22RE2						5	\				
1912011-23RE2						5	\				
1912011-24RE2						5	\				
1912011-25RE2						5	\				
1912011-32RE2						5	\				2x atomx dilution
B19L026-BLK1	-					5					Method Blank
B19L026-BLK2	-					5					Storage Blank
B19L026-BS1	-	19L1201	2.5	19L1812	2.5	5					
B19L026-BSD1	-	19L1201	2.5	19L1812	2.5	5					
B19L026-CCV1	-	19L1201	2.5	19L1812	2.5	5					

Batch Comments: From B19L019 on 12/19/2019 by KO

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: 12/20/2019

Volatiles in WATER Preparation Bench Sheet

Analyst(s): Kelsey O'Malley

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

Batch Number: B19L026
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

pH paper LIMS ID: 18D1901

Other reagents LIMS ID(s): _____

Batch Comments: From B19L019 on 12/19/2019 by KO

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

Method 8260 - BFB Tune Check

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_48.D
Acq On : 19 Dec 2019 3:55 pm
Operator : ko
Sample : IB19
Misc : LIMS 19L1101
ALS Vial : 99 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Title :
Last Update : Fri Dec 13 10:29:00 2019

AutoFind: Scans 2988, 2989, 2990; Background Corrected with Scan 2978

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	2008	PASS
75	95	30	60	52.3	4842	PASS
95	95	100	100	100.0	9254	PASS
96	95	5	9	8.1	752	PASS
173	174	0.00	2	1.7	152	PASS
174	95	50	100	97.4	9011	PASS
175	174	5	9	8.0	723	PASS
176	174	95	101	99.5	8970	PASS
177	176	5	9	7.5	676	PASS

GCMS11_1912..._FULL LIST.M Tue Dec 31 10:29:38 2019

Method 8260 - BFB Tune Check

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_67.D
Acq On : 20 Dec 2019 12:57 am
Operator : ko
Sample : IB8
Misc : LIMS 19L1101
ALS Vial : 99 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Title :
Last Update : Fri Dec 13 10:29:00 2019

AutoFind: Scans 2988, 2989, 2990; Background Corrected with Scan 2978

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.1	1747	PASS
75	95	30	60	45.6	4667	PASS
95	95	100	100	100.0	10229	PASS
96	95	5	9	5.8	596	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	90.3	9238	PASS
175	174	5	9	7.5	695	PASS
176	174	95	101	99.6	9202	PASS
177	176	5	9	5.4	501	PASS

GCMS11_1912..._FULL LIST.M Tue Dec 31 10:33:08 2019

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 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
```

```
                        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
```

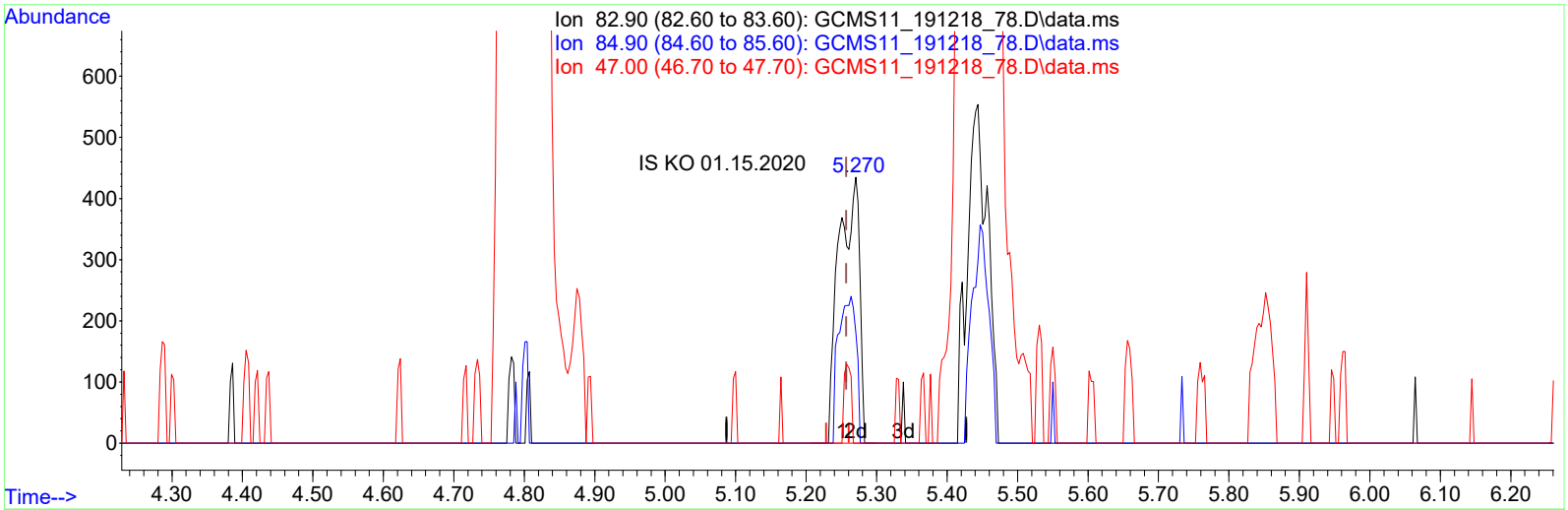
```
61) Spike          37  B19L026-BS1
     Datafile          GCMS11_191218_52
     Method            GCMS11_190612_ACQ
62) Sample         38  1912011-23RE2
     Datafile          GCMS11_191218_62
     Method            GCMS11_190612_ACQ
63) Blank          99  IB5
     Datafile          GCMS11_191218_63
     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
```

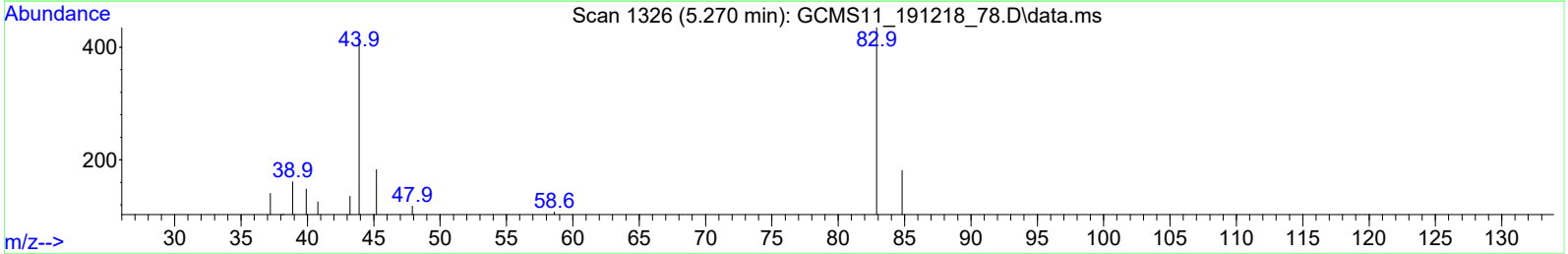
```
                        2019 Dec 18 1730 Sequence Log
 77) Blank         99   IB14
      Datafile          GCMS11_191218_77
      Method            GCMS11_190612_ACQ
 78) Sample        44   1912011-08RE2          Mis-labeled: sample is 1912009-08RE2
      Datafile          GCMS11_191218_78       -ko 12.30.19
      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
```

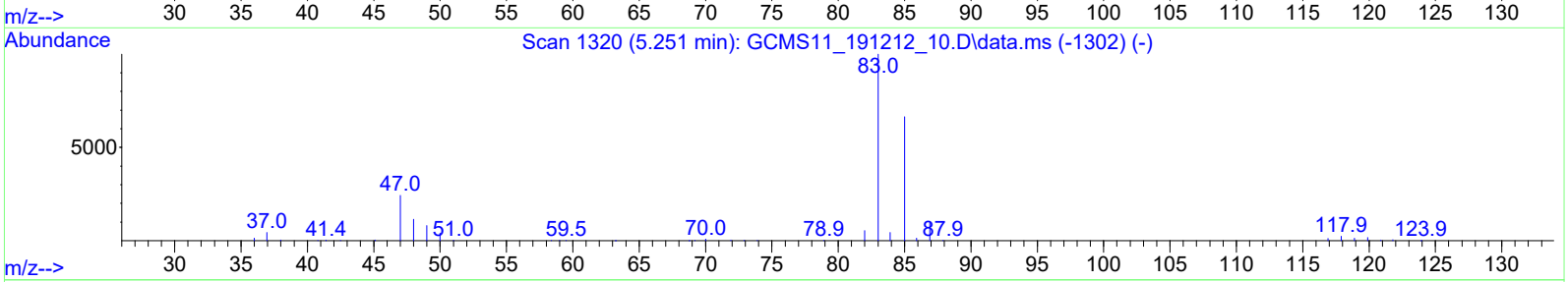
Quantitation Report (Qedit)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_78.D
Acq On : 20 Dec 2019 6:10 am
Operator : ko
Sample : 1912011-08RE2
Misc : 5X ATOMX DILUTION, LIMS 19L1101
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Dec 20 11:00:40 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







TIC: GCMS11_191218_78.D\data.ms

(21) Chloroform (M)

5.270min (+ 0.013) 2.26 ng m

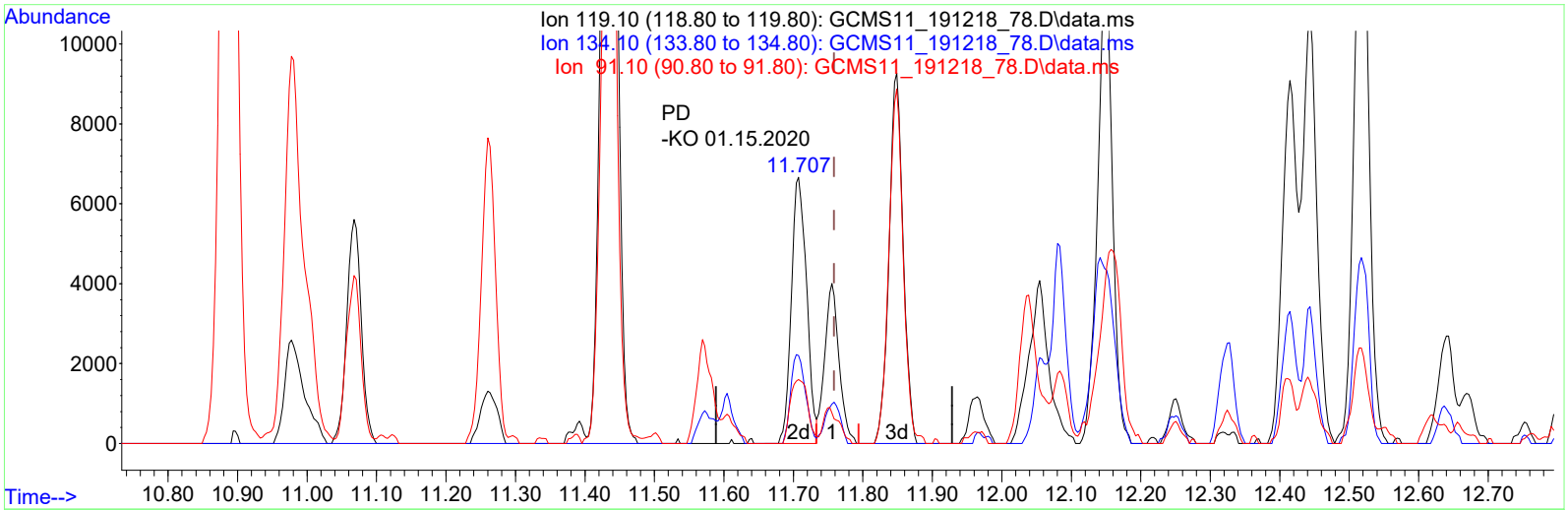
response 878

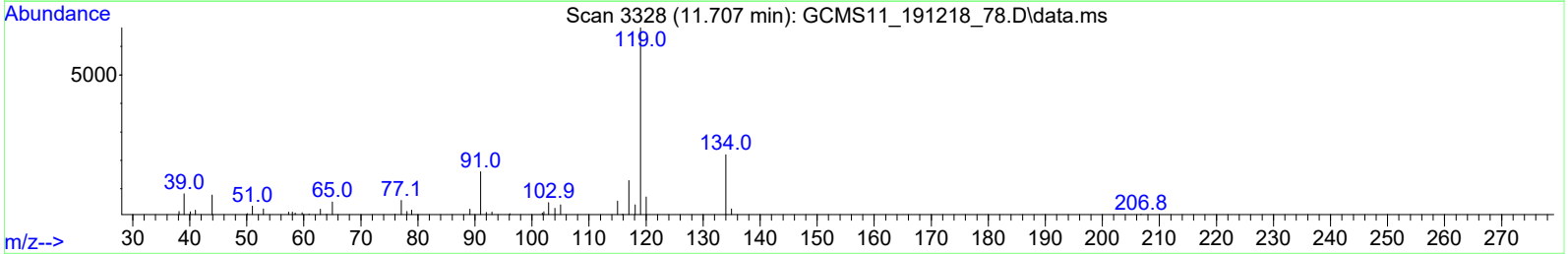
Ion	Exp%	Act%
82.90	100.00	100.00
84.90	64.20	0.00#
47.00	23.20	0.00
0.00	0.00	0.00

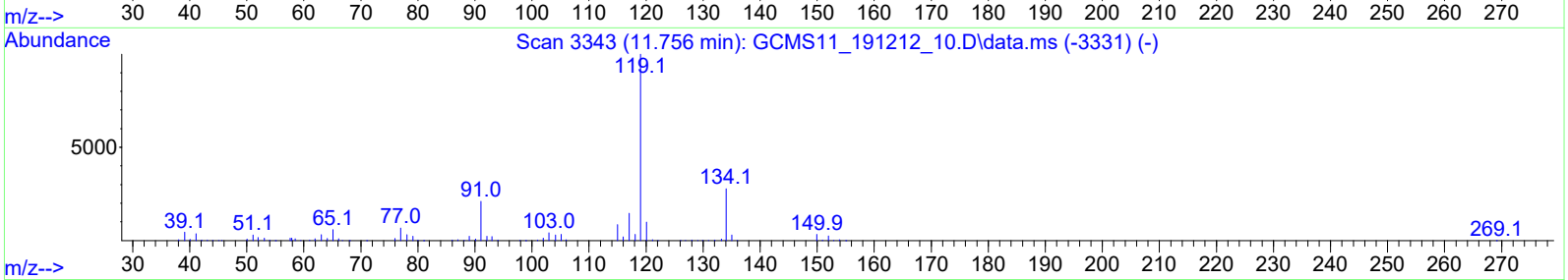
Quantitation Report (Qedit)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_78.D
Acq On : 20 Dec 2019 6:10 am
Operator : ko
Sample : 1912011-08RE2
Misc : 5X ATOMX DILUTION, LIMS 19L1101
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Dec 20 11:00:40 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







TIC: GCMS11_191218_78.D\data.ms

(68) p-Isopropyltoluene (M)

11.707min (-0.051) 11.10 ng m

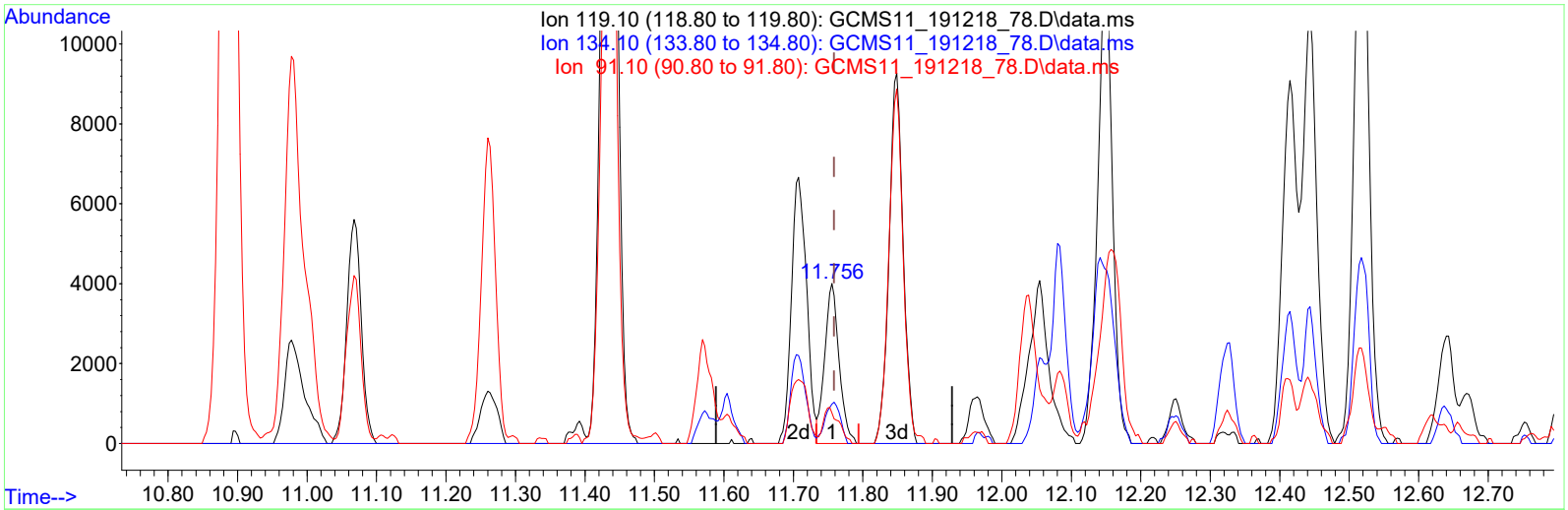
response 10180

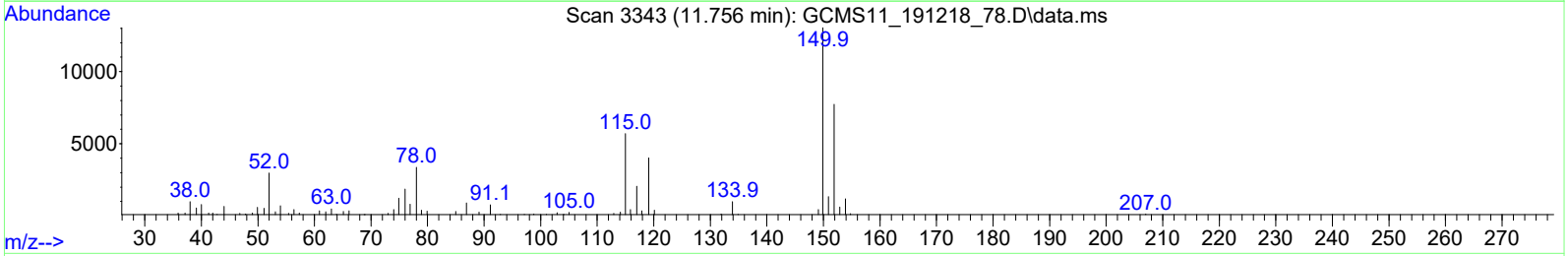
Ion	Exp%	Act%
119.10	100.00	100.00
134.10	27.50	15.39
91.10	21.30	13.39
0.00	0.00	0.00

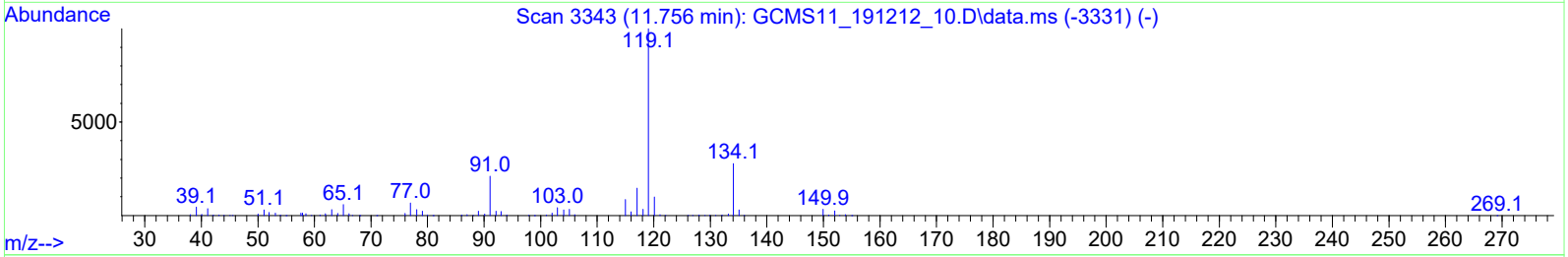
Quantitation Report (Qedit)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_78.D
Acq On : 20 Dec 2019 6:10 am
Operator : ko
Sample : 1912011-08RE2
Misc : 5X ATOMX DILUTION, LIMS 19L1101
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Dec 20 11:00:40 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







TIC: GCMS11_191218_78.D\data.ms

(68) p-Isopropyltoluene (M)

11.756min (-0.003) 6.29 ng

response 5771

Ion	Exp%	Act%
119.10	100.00	100.00
134.10	27.50	27.15
91.10	21.30	23.62
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_59.D
Acq On : 19 Dec 2019 8:44 pm
Operator : ko
Sample : 1912009-02RE2
Misc : LIMS 19L1101
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Dec 20 07:24:14 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

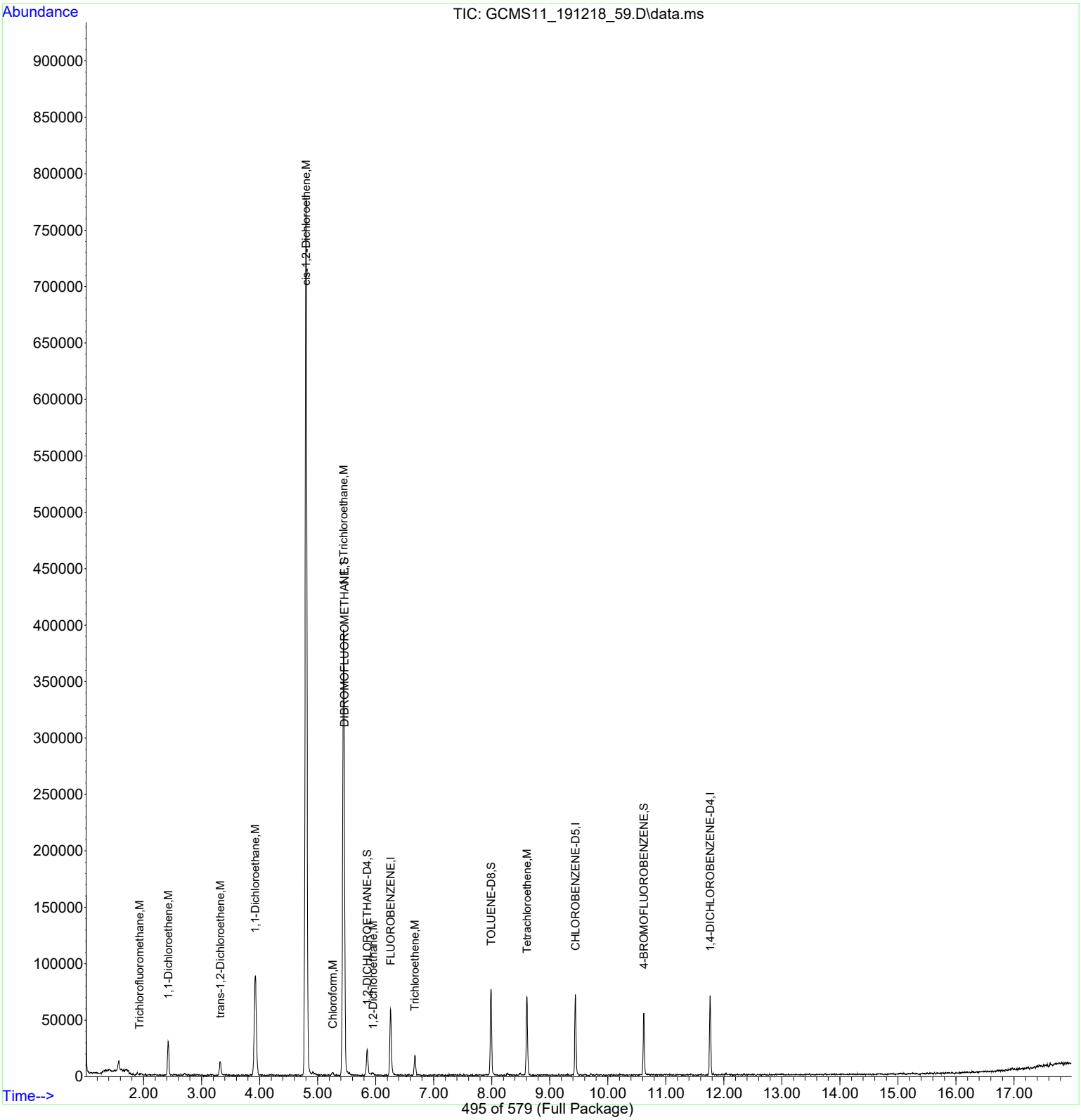
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.257	96	53823	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.440	82	20038	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.762	152	18028	50.00	ng	#	0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.460	113	14078	49.80	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.852	65	16336	48.49	ng		0.00
37) TOLUENE-D8	7.987	98	50480	47.69	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.620	95	15087	41.53	ng		0.00
Target Compounds							Qvalue
7) Trichlorofluoromethane	1.929	101	883	2.36	ng	#	74
9) 1,1-Dichloroethene	2.428	96	10423	37.26	ng		98
14) trans-1,2-Dichloroethene	3.322	96	5188	16.47	ng		94
16) 1,1-Dichloroethane	3.923	63	102942	197.95	ng		99
18) cis-1,2-Dichloroethene	4.798	96	398228	1171.64	ng		93
21) Chloroform	5.261	83	1717	3.31	ng		97
23) 1,1,1-Trichloroethane	5.447	97	264372	560.57	ng		98
28) 1,2-Dichloroethane	5.955	62	1554	3.54	ng	#	89
29) Trichloroethene	6.675	95	5525	17.95	ng		89
42) Tetrachloroethene	8.608	164	14806	58.70	ng		97

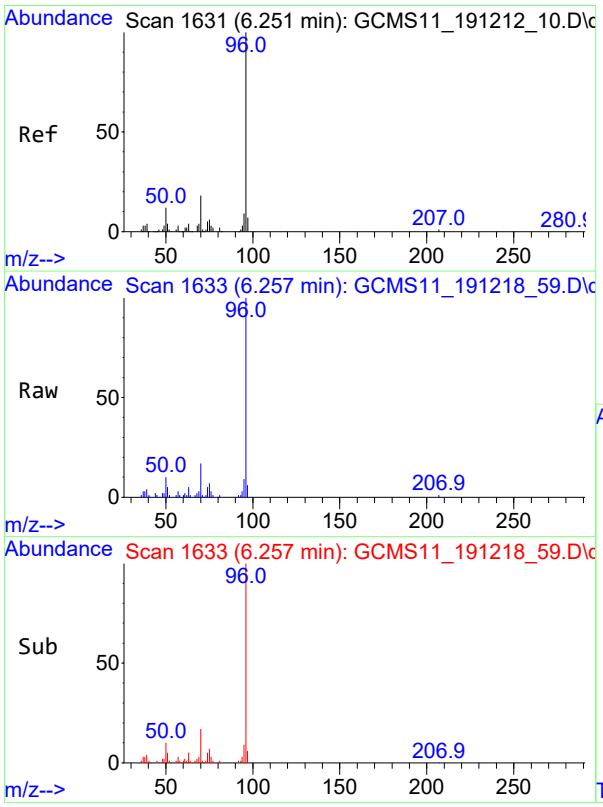
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_59.D
Acq On : 19 Dec 2019 8:44 pm
Operator : ko
Sample : 1912009-02RE2
Misc : LIMS 19L1101
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Dec 20 07:24:14 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

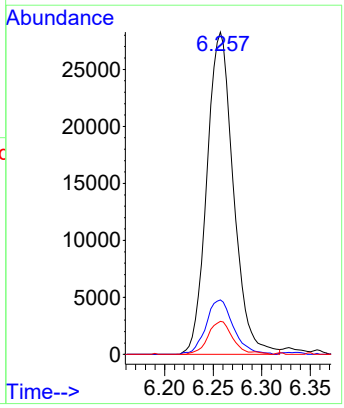


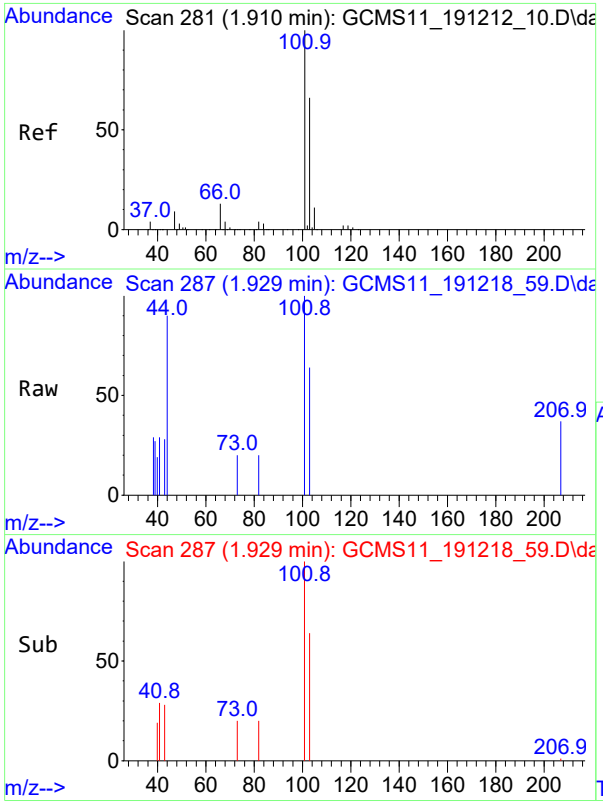


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.257 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191218_59.D
Acq: 19 Dec 2019 8:44 pm

Tgt Ion: 96 Resp: 53823

Ion	Ratio	Lower	Upper
96	100		
70	17.5	0.0	48.3
50	9.7	0.0	39.5

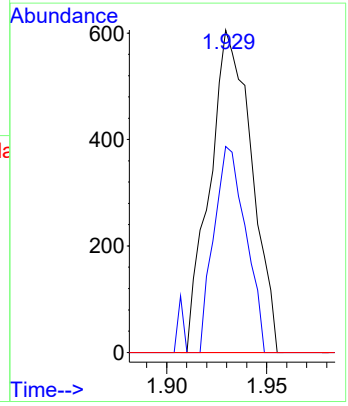


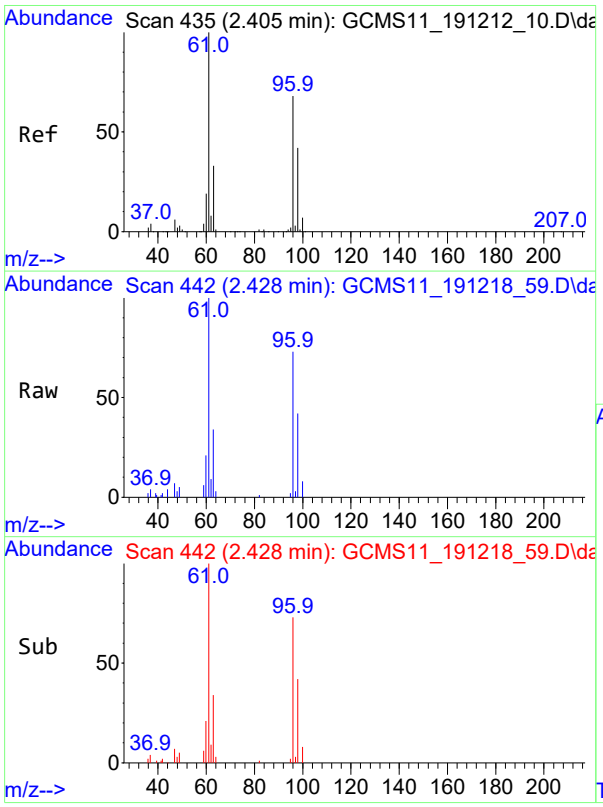


#7
Trichlorofluoromethane
Concen: 2.36 ng
RT: 1.929 min Scan# 287
Delta R.T. 0.006 min
Lab File: GCMS11_191218_59.D
Acq: 19 Dec 2019 8:44 pm

Tgt Ion:101 Resp: 883

Ion	Ratio	Lower	Upper
101	100		
103	48.7	38.4	98.4
66	0.0	0.0	43.0

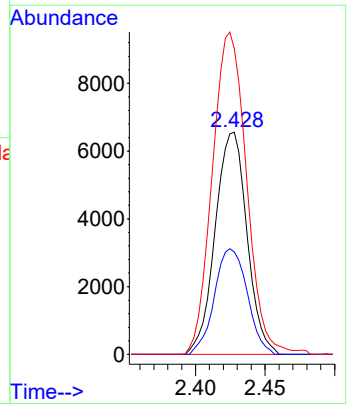


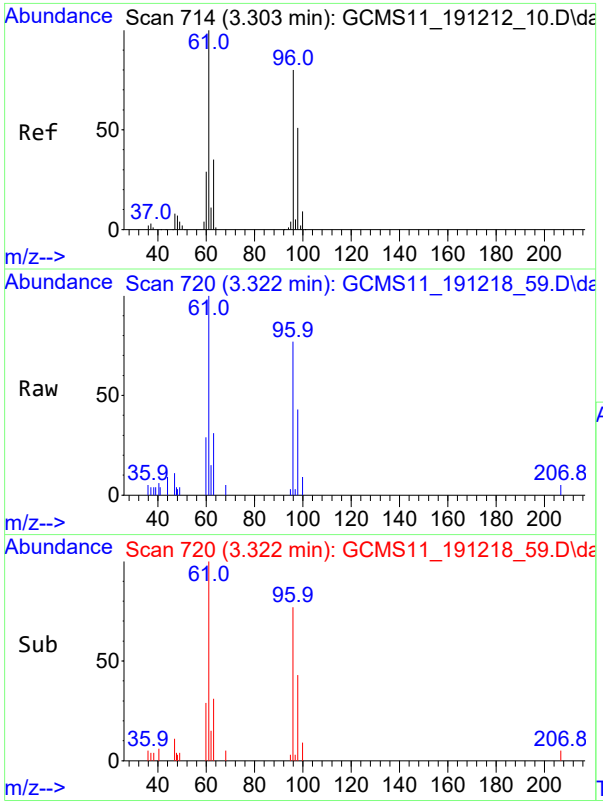


#9
1,1-Dichloroethene
Concen: 37.26 ng
RT: 2.428 min Scan# 442
Delta R.T. 0.010 min
Lab File: GCMS11_191218_59.D
Acq: 19 Dec 2019 8:44 pm

Tgt Ion: 96 Resp: 10423

Ion	Ratio	Lower	Upper
96	100		
63	49.0	20.7	80.7
61	156.0	123.9	183.9

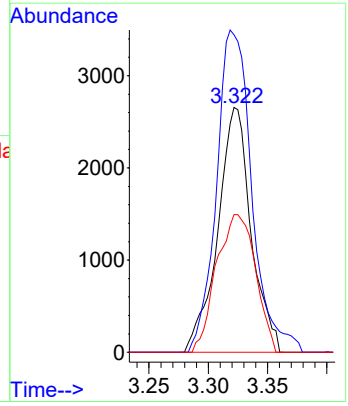


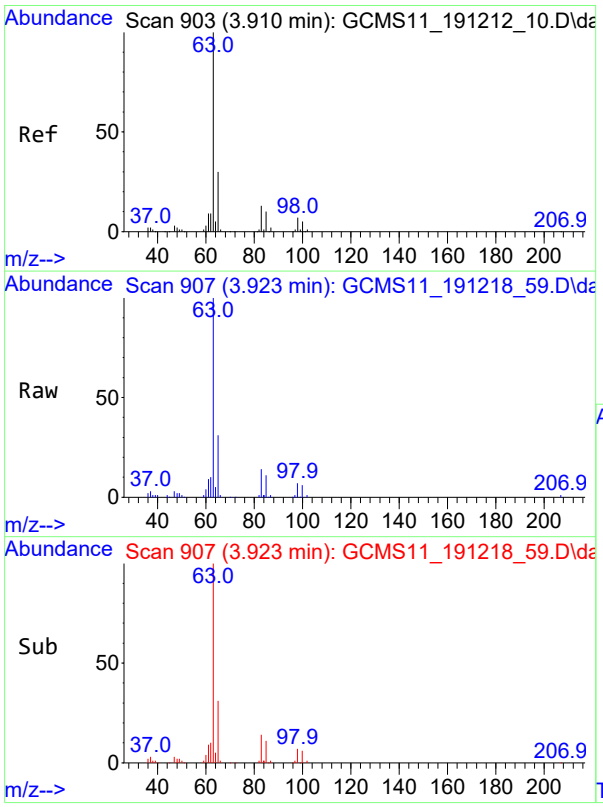


#14
trans-1,2-Dichloroethene
Concen: 16.47 ng
RT: 3.322 min Scan# 720
Delta R.T. 0.003 min
Lab File: GCMS11_191218_59.D
Acq: 19 Dec 2019 8:44 pm

Tgt Ion: 96 Resp: 5188

Ion	Ratio	Lower	Upper
96	100		
61	139.8	99.6	159.6
98	65.9	35.3	95.3

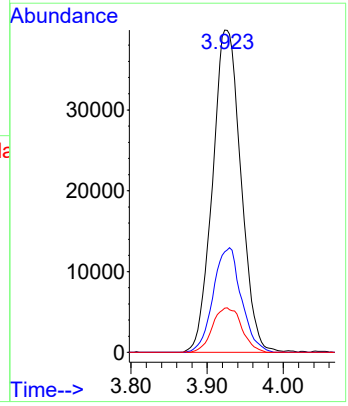


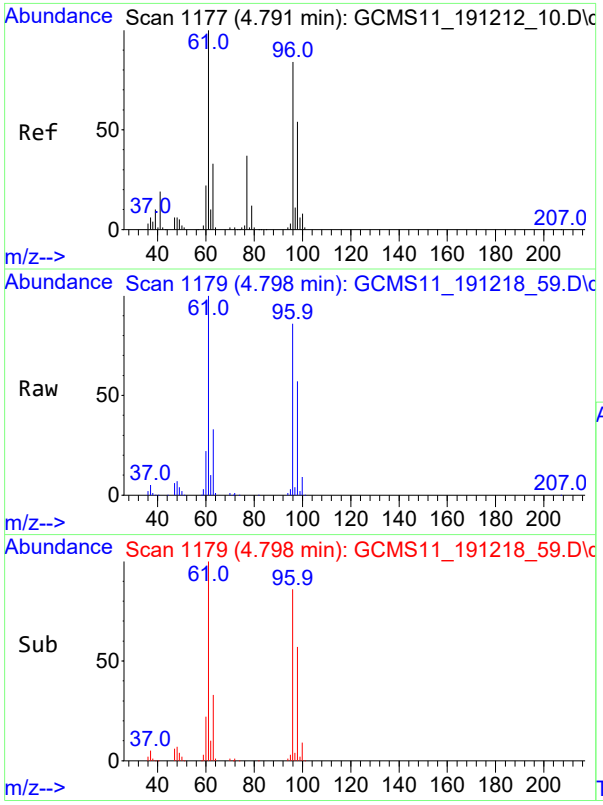


#16
1,1-Dichloroethane
Concen: 197.95 ng
RT: 3.923 min Scan# 907
Delta R.T. 0.000 min
Lab File: GCMS11_191218_59.D
Acq: 19 Dec 2019 8:44 pm

Tgt Ion: 63 Resp: 102942

Ion	Ratio	Lower	Upper
63	100		
65	32.2	2.8	62.8
83	14.3	0.0	44.3

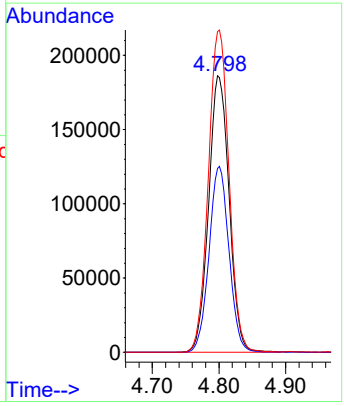


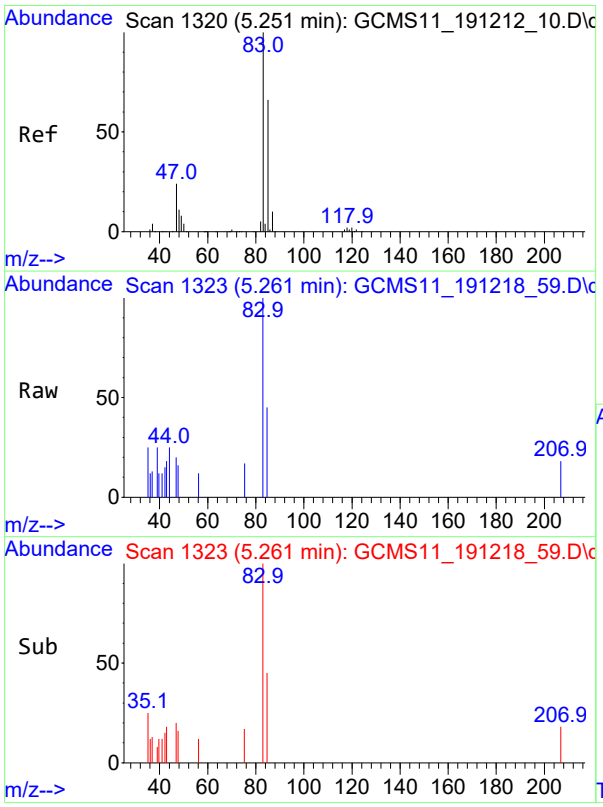


#18
cis-1,2-Dichloroethene
Concen: 1171.64 ng
RT: 4.798 min Scan# 1179
Delta R.T. -0.003 min
Lab File: GCMS11_191218_59.D
Acq: 19 Dec 2019 8:44 pm

Tgt Ion: 96 Resp: 398228

Ion	Ratio	Lower	Upper
96	100		
98	65.5	30.6	90.6
61	117.4	96.6	156.6

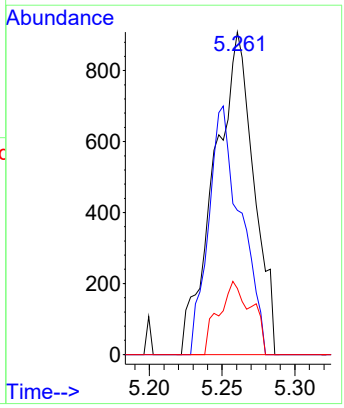


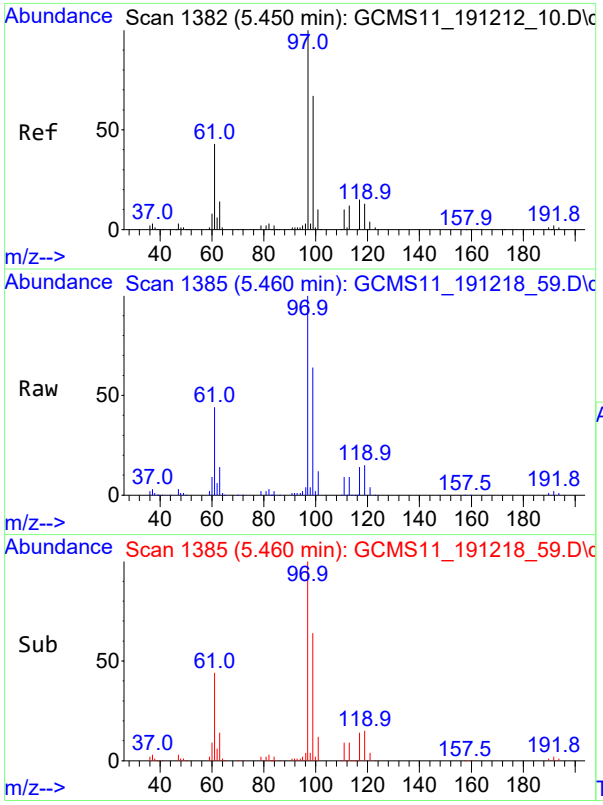


#21
Chloroform
Concen: 3.31 ng
RT: 5.261 min Scan# 1323
Delta R.T. 0.003 min
Lab File: GCMS11_191218_59.D
Acq: 19 Dec 2019 8:44 pm

Tgt Ion: 83 Resp: 1717

Ion	Ratio	Lower	Upper
83	100		
85	63.1	34.2	94.2
47	18.8	0.0	53.2

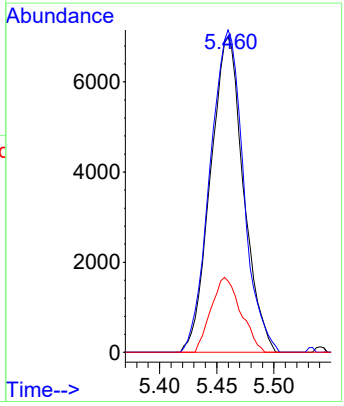


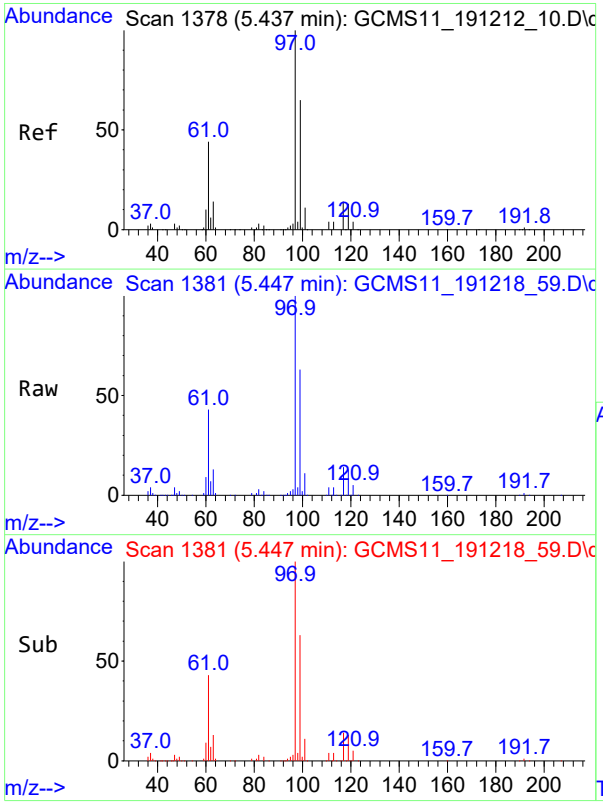


#22
DIBROMOFLUOROMETHANE
Concen: 49.80 ng
RT: 5.460 min Scan# 1385
Delta R.T. 0.000 min
Lab File: GCMS11_191218_59.D
Acq: 19 Dec 2019 8:44 pm

Tgt Ion:113 Resp: 14078

Ion	Ratio	Lower	Upper
113	100		
111	103.5	75.2	135.2
192	21.4	0.0	52.1

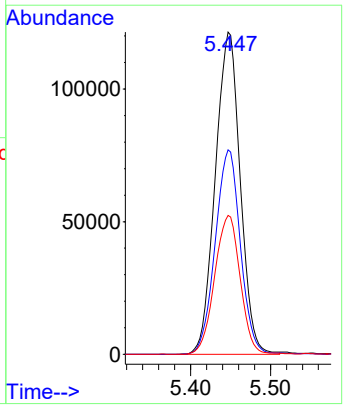


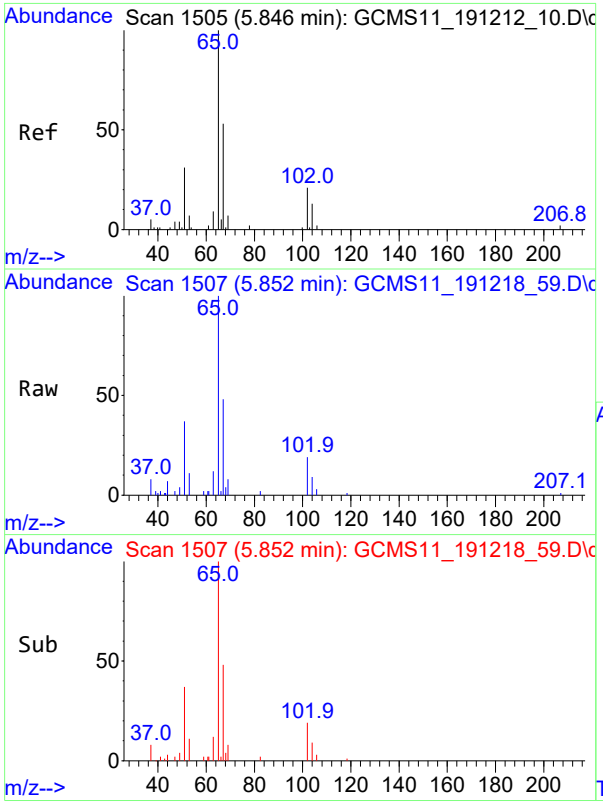


#23
1,1,1-Trichloroethane
Concen: 560.57 ng
RT: 5.447 min Scan# 1381
Delta R.T. 0.003 min
Lab File: GCMS11_191218_59.D
Acq: 19 Dec 2019 8:44 pm

Tgt Ion: 97 Resp: 264372

Ion	Ratio	Lower	Upper
97	100		
99	64.3	32.7	92.7
61	44.4	13.1	73.1

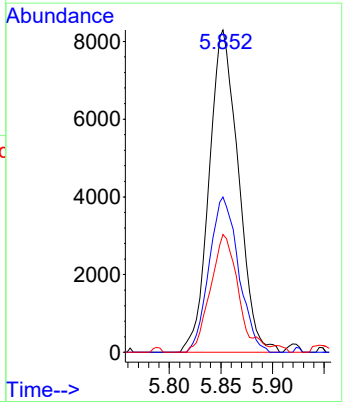


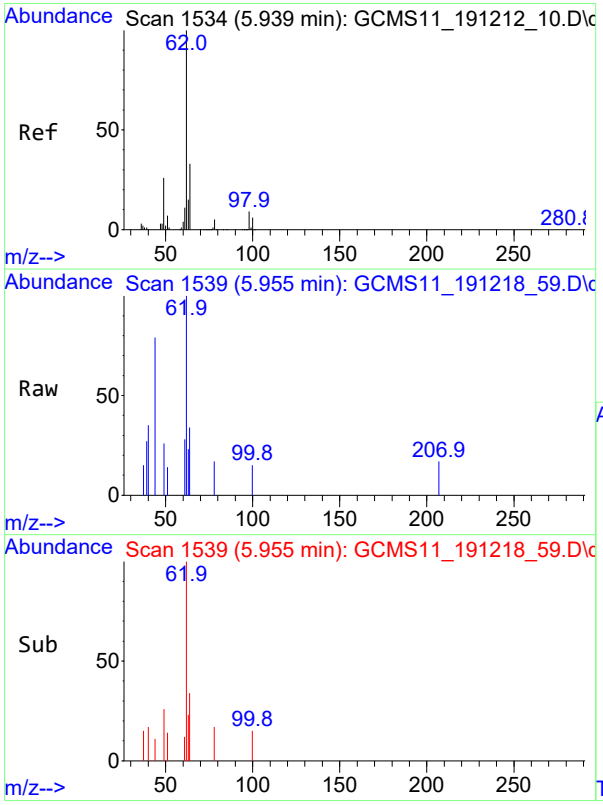


#26
1,2-DICHLOROETHANE-D4
Concen: 48.49 ng
RT: 5.852 min Scan# 1507
Delta R.T. 0.000 min
Lab File: GCMS11_191218_59.D
Acq: 19 Dec 2019 8:44 pm

Tgt Ion: 65 Resp: 16336

Ion	Ratio	Lower	Upper
65	100		
67	48.4	15.4	75.4
51	34.9	2.7	62.7

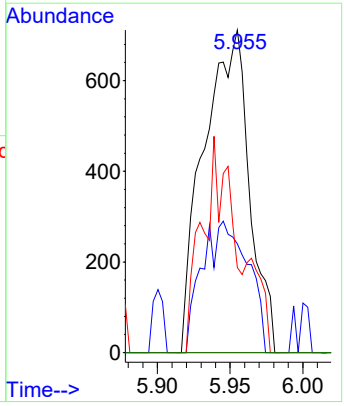


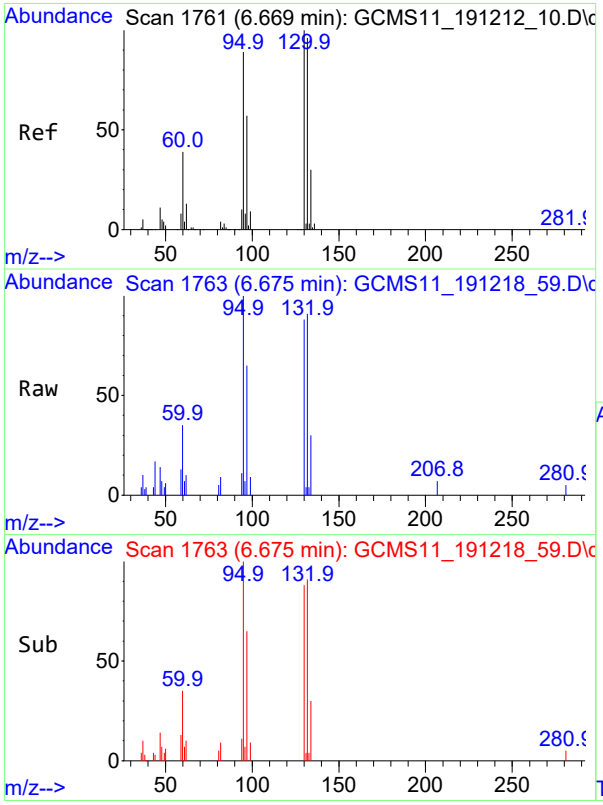


#28
1,2-Dichloroethane
Concen: 3.54 ng
RT: 5.955 min Scan# 1539
Delta R.T. 0.013 min
Lab File: GCMS11_191218_59.D
Acq: 19 Dec 2019 8:44 pm

Tgt Ion: 62 Resp: 1554

Ion	Ratio	Lower	Upper
62	100		
64	41.0	3.2	63.2
49	24.7	0.0	55.4
98	0.0	0.0	39.6

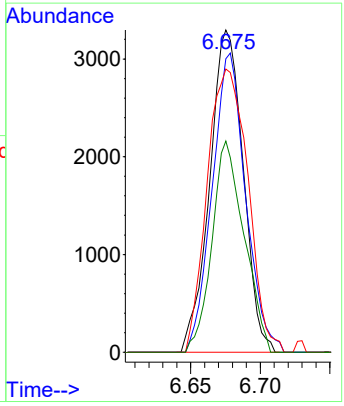


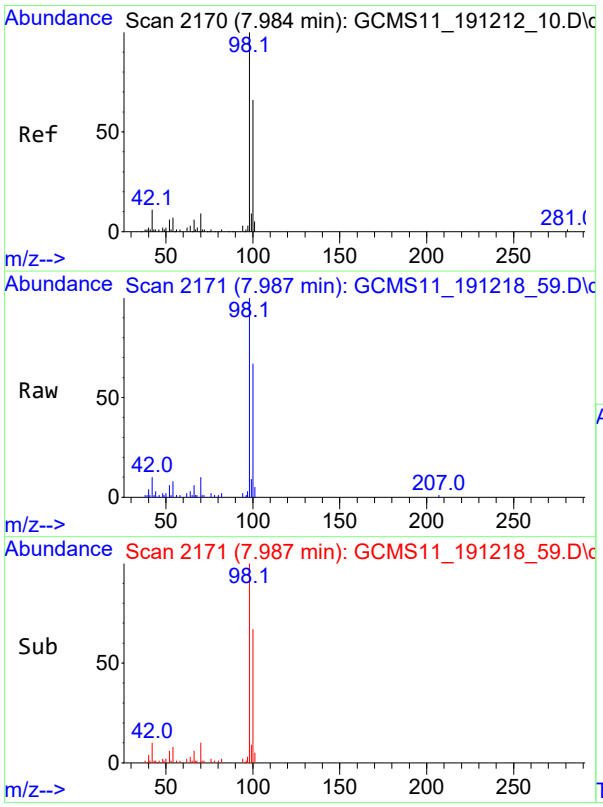


#29
Trichloroethene
Concen: 17.95 ng
RT: 6.675 min Scan# 1763
Delta R.T. 0.000 min
Lab File: GCMS11_191218_59.D
Acq: 19 Dec 2019 8:44 pm

Tgt Ion: 95 Resp: 5525

Ion	Ratio	Lower	Upper
95	100		
132	92.5	78.7	138.7
130	106.3	86.1	146.1
97	62.7	37.2	97.2

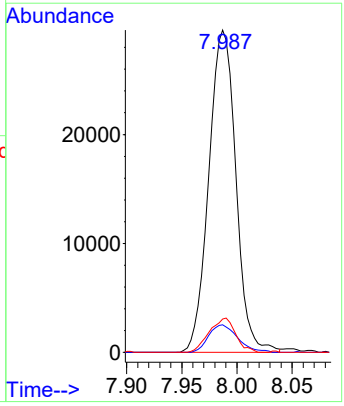


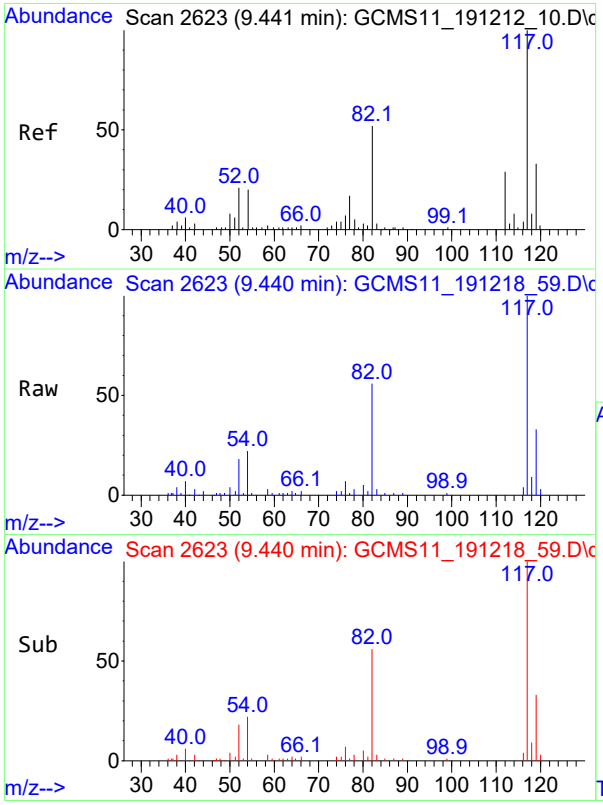


#37
TOLUENE-D8
Concen: 47.69 ng
RT: 7.987 min Scan# 2171
Delta R.T. 0.003 min
Lab File: GCMS11_191218_59.D
Acq: 19 Dec 2019 8:44 pm

Tgt Ion: 98 Resp: 50480

Ion	Ratio	Lower	Upper
98	100		
99	9.2	0.0	39.8
70	10.4	0.0	40.7

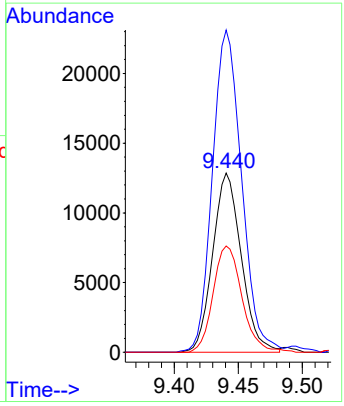


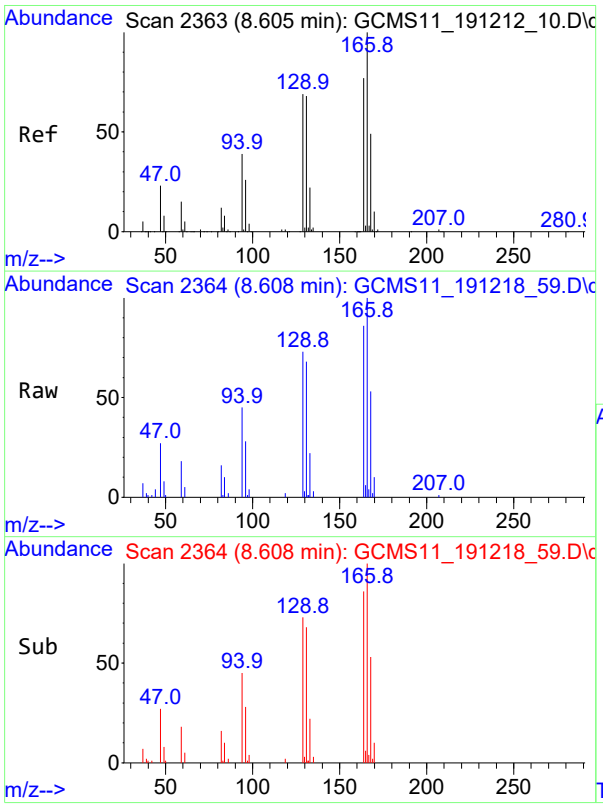


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.440 min Scan# 2623
Delta R.T. 0.000 min
Lab File: GCMS11_191218_59.D
Acq: 19 Dec 2019 8:44 pm

Tgt Ion: 82 Resp: 20038

Ion	Ratio	Lower	Upper
82	100		
117	182.7	160.7	220.7
119	59.9	33.5	93.5

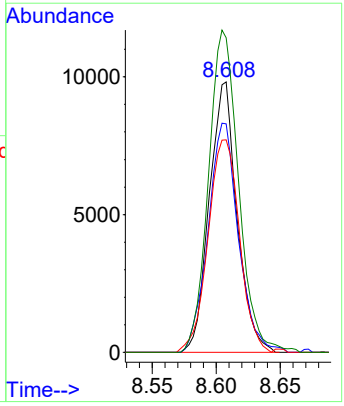


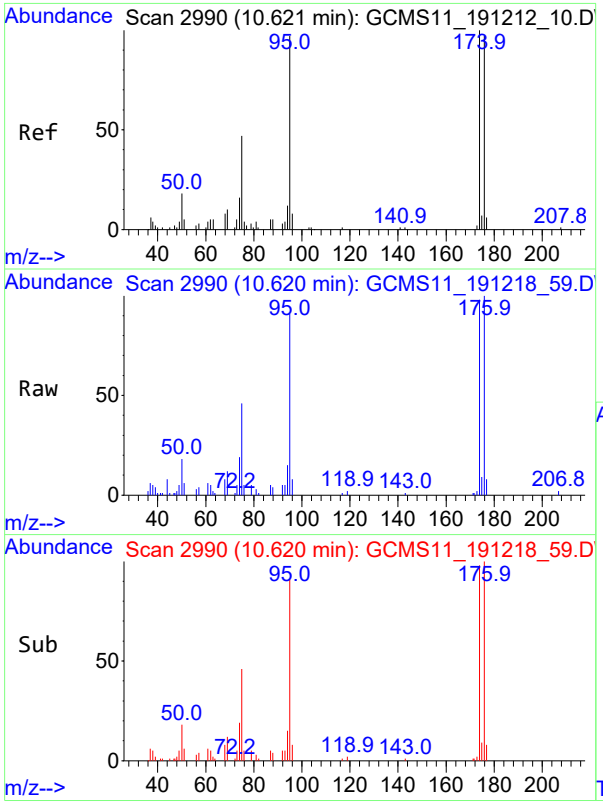


#42
Tetrachloroethene
Concen: 58.70 ng
RT: 8.608 min Scan# 2364
Delta R.T. 0.004 min
Lab File: GCMS11_191218_59.D
Acq: 19 Dec 2019 8:44 pm

Tgt Ion:164 Resp: 14806

Ion	Ratio	Lower	Upper
164	100		
129	92.9	57.5	117.5
131	88.6	55.8	115.8
166	129.7	99.4	159.4

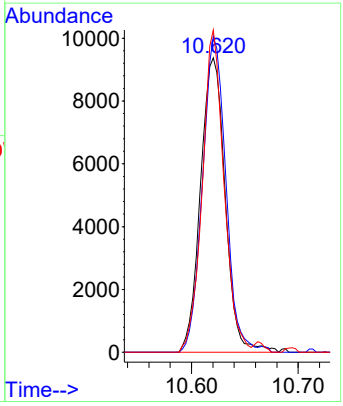


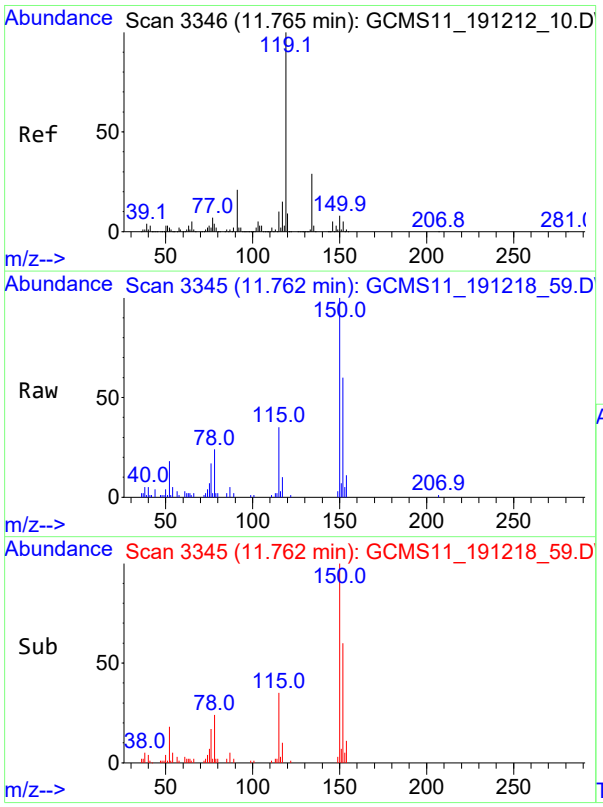


#55
4-BROMOFLUOROBENZENE
Concen: 41.53 ng
RT: 10.620 min Scan# 2990
Delta R.T. 0.000 min
Lab File: GCMS11_191218_59.D
Acq: 19 Dec 2019 8:44 pm

Tgt Ion: 95 Resp: 15087

Ion	Ratio	Lower	Upper
95	100		
174	101.1	68.5	128.5
176	95.9	66.8	126.8

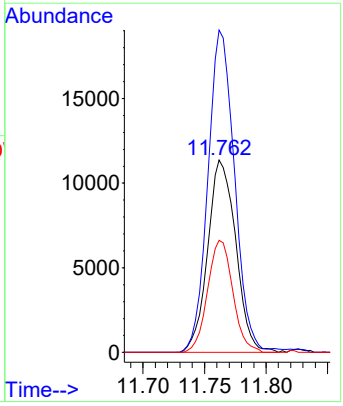




#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.762 min Scan# 3345
Delta R.T. -0.003 min
Lab File: GCMS11_191218_59.D
Acq: 19 Dec 2019 8:44 pm

Tgt Ion:152 Resp: 18028

Ion	Ratio	Lower	Upper
152	100		
150	158.4	162.5	222.5#
115	52.5	82.3	142.3#



Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_78.D
Acq On : 20 Dec 2019 6:10 am
Operator : ko
Sample : 1912009-08RE2
Misc : 5X ATOMX DILUTION, LIMS 19L1101
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Dec 20 11:00:40 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

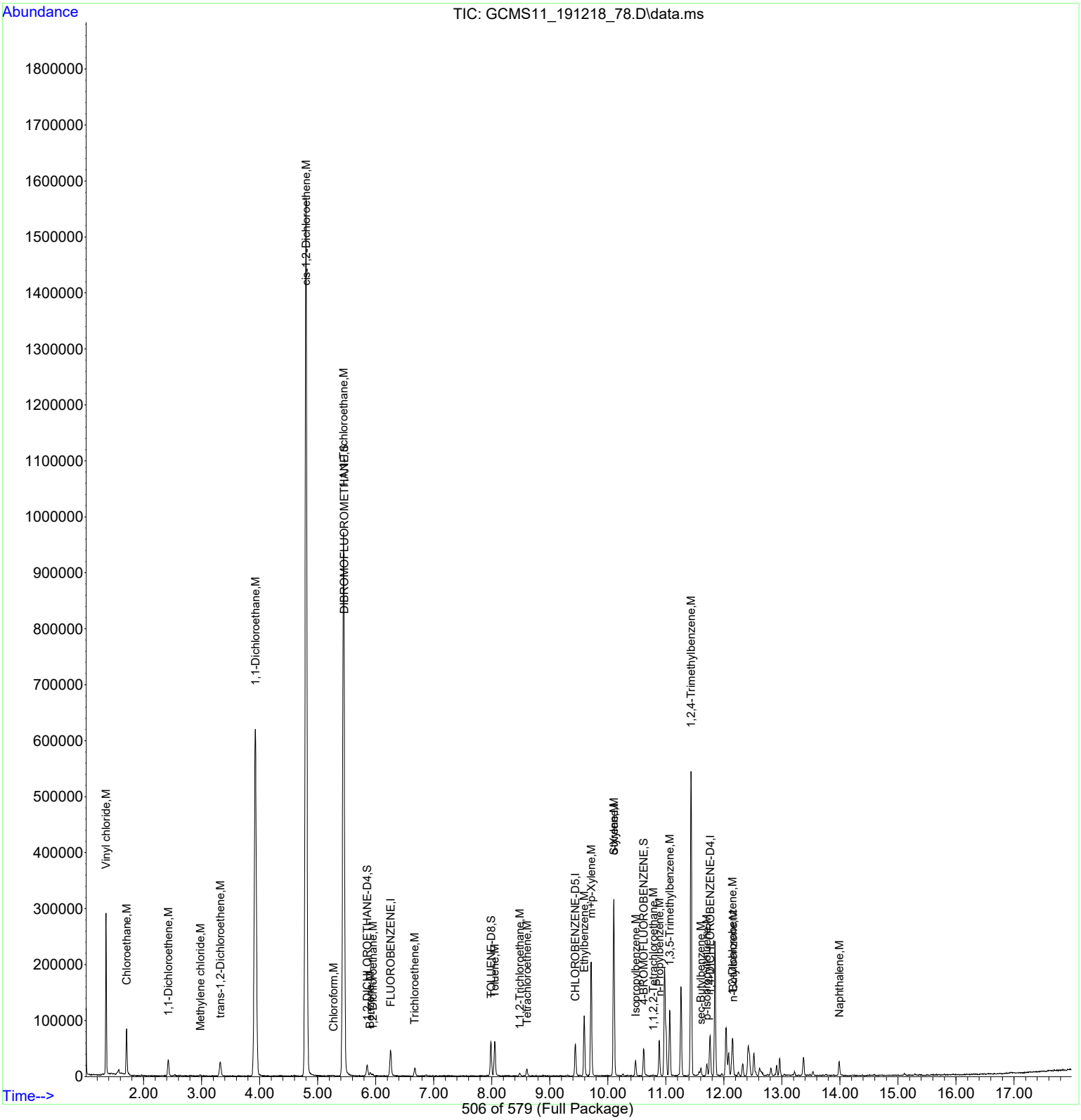
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.257	96	40336	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.437	82	15361	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.765	152	15818	50.00	ng	#	0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.457	113	12355	58.32	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.852	65	13044	51.67	ng		0.00
37) TOLUENE-D8	7.987	98	39003	49.17	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.617	95	13586	48.78	ng		0.00
Target Compounds							Qvalue
4) Vinyl chloride	1.354	62	160012	736.71	ng		100
6) Chloroethane	1.708	64	45473	286.39	ng		97
9) 1,1-Dichloroethene	2.428	96	10102	48.19	ng		100
12) Methylene chloride	2.981	84	598	2.36	ng		79
14) trans-1,2-Dichloroethene	3.322	96	10842	45.94	ng		99
16) 1,1-Dichloroethane	3.926	63	733888	1883.04	ng		99
18) cis-1,2-Dichloroethene	4.798	96	805496	3162.27	ng		92
21) Chloroform	5.270	83	878m	2.26	ng		
23) 1,1,1-Trichloroethane	5.447	97	669435	1894.07	ng		97
27) Benzene	5.904	78	4874	4.98	ng		87
28) 1,2-Dichloroethane	5.949	62	2240	6.82	ng		90
29) Trichloroethene	6.672	95	4342	18.82	ng		90
38) Toluene	8.052	92	24332	44.49	ng		94
41) 1,1,2-Trichloroethane	8.479	83	1212	6.29	ng		95
42) Tetrachloroethene	8.608	164	2452	12.68	ng		92
49) Ethylbenzene	9.592	106	23599	69.40	ng		100
50) m+p-Xylene	9.714	106	57299	133.19	ng		98
51) o-Xylene	10.103	106	81882	197.02	ng		99
52) Styrene	10.103	103	11347	28.87	ng	#	27
54) Isopropylbenzene	10.479	105	16180	14.75	ng		96
58) n-Propylbenzene	10.887	91	44787	36.30	ng		97
60) 1,3,5-Trimethylbenzene	11.068	105	57576	64.43	ng		99
63) 1,1,2,2-Tetrachloroethane	10.785	83	568	2.00	ng	#	83
65) 1,2,4-Trimethylbenzene	11.434	105	272532	319.26	ng		99
66) sec-Butylbenzene	11.604	105	9409	8.98	ng	#	77
68) p-Isopropyltoluene	11.707	119	10180m	11.10	ng		
70) 1,2-Dichlorobenzene	12.148	146	10782	20.42	ng		93
71) n-Butylbenzene	12.158	91	10771	13.21	ng	#	40
75) Naphthalene	13.987	128	19025	20.86	ng		96

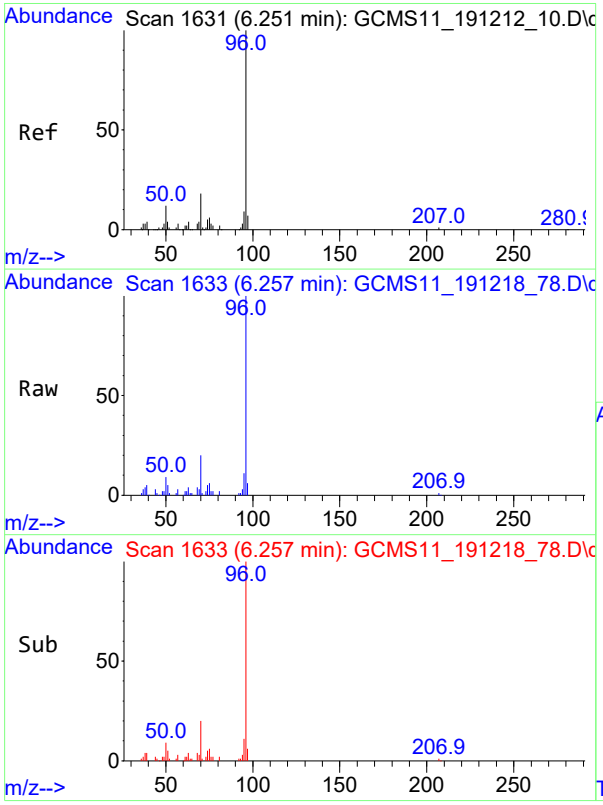
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_78.D
Acq On : 20 Dec 2019 6:10 am
Operator : ko
Sample : 1912009-08RE2
Misc : 5X ATOMX DILUTION, LIMS 19L1101
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Dec 20 11:00:40 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

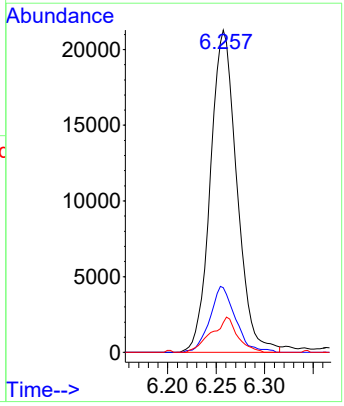


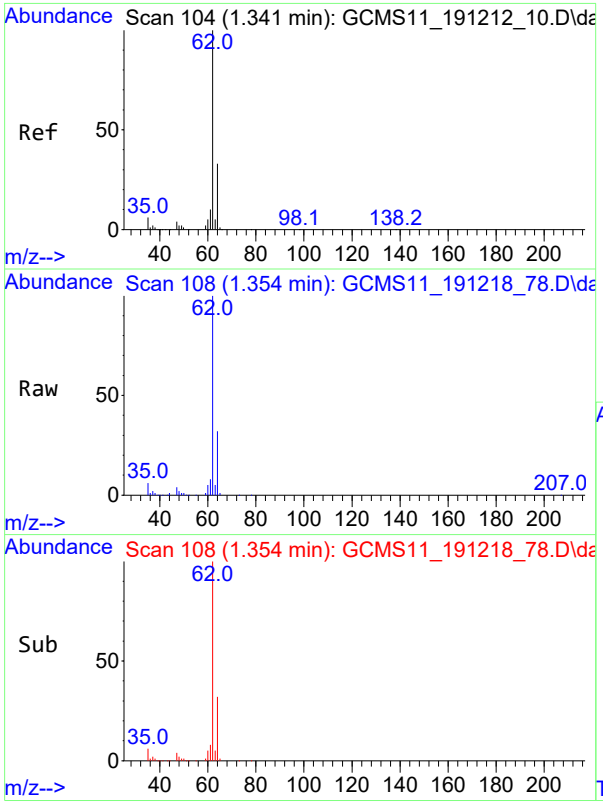


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.257 min Scan# 1633
Delta R.T. 0.000 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 96 Resp: 40336

Ion	Ratio	Lower	Upper
96	100		
70	19.8	0.0	48.3
50	10.7	0.0	39.5

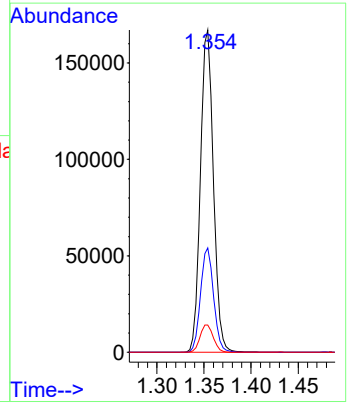


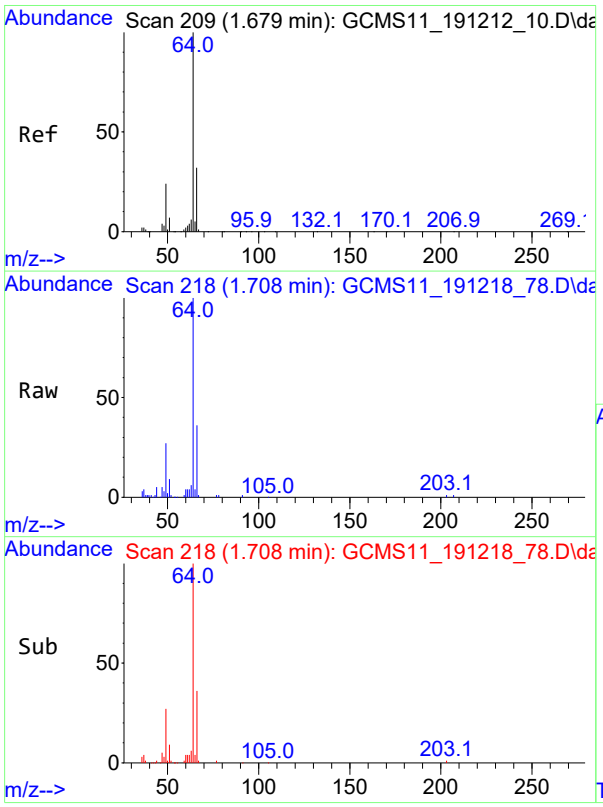


#4
Vinyl chloride
Concen: 736.71 ng
RT: 1.354 min Scan# 108
Delta R.T. 0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 62 Resp: 160012

Ion	Ratio	Lower	Upper
62	100		
64	32.6	2.7	62.7
61	8.7	0.0	39.4

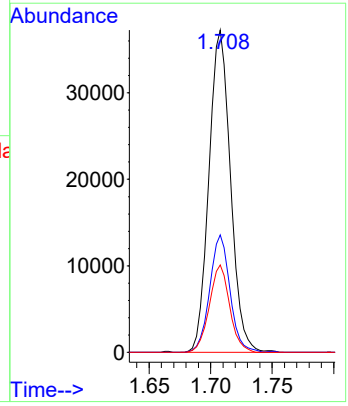


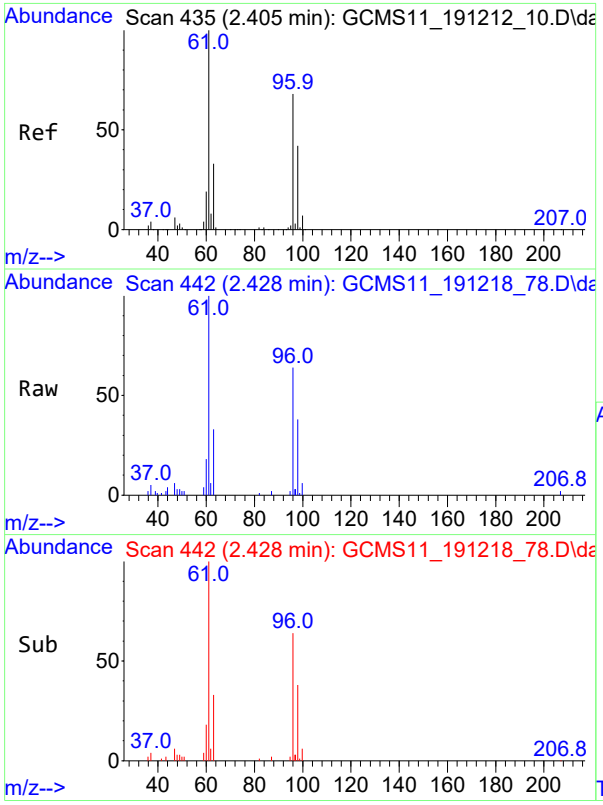


#6
Chloroethane
Concen: 286.39 ng
RT: 1.708 min Scan# 218
Delta R.T. 0.013 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 64 Resp: 45473

Ion	Ratio	Lower	Upper
64	100		
66	34.3	3.3	63.3
49	25.6	0.0	53.3

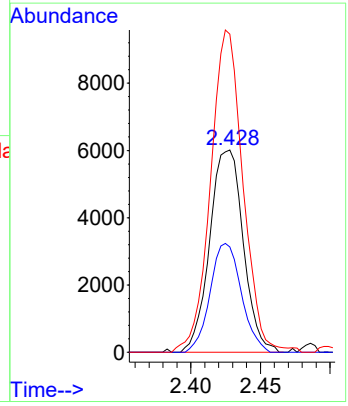


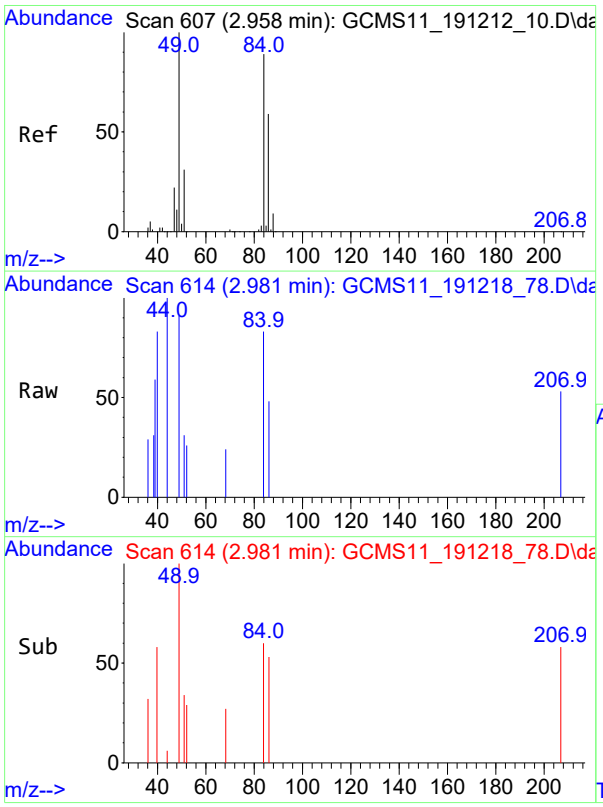


#9
1,1-Dichloroethene
Concen: 48.19 ng
RT: 2.428 min Scan# 442
Delta R.T. 0.010 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 96 Resp: 10102

Ion	Ratio	Lower	Upper
96	100		
63	49.9	20.7	80.7
61	153.7	123.9	183.9

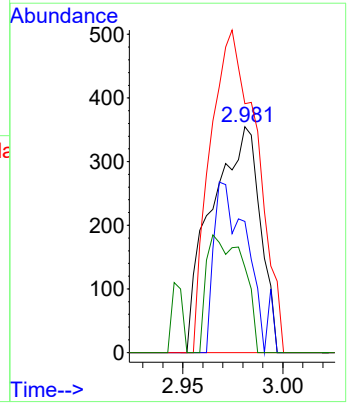


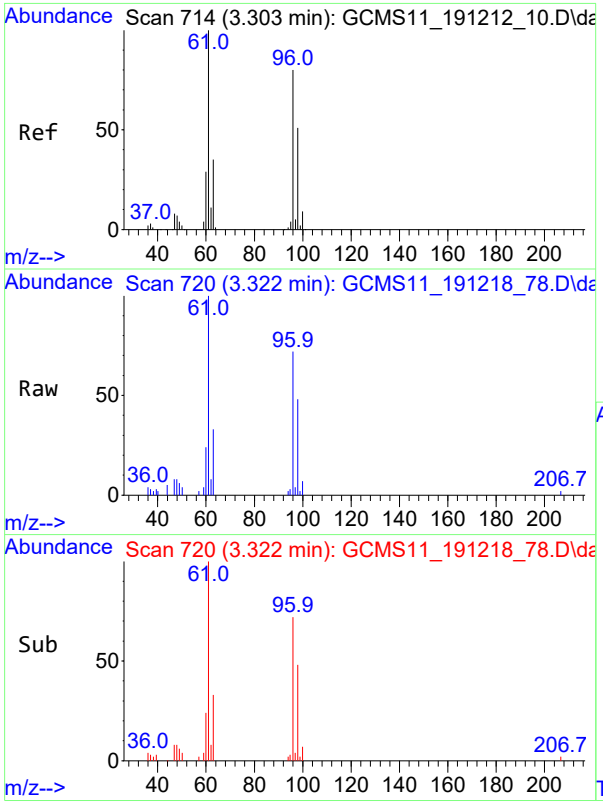


#12
Methylene chloride
Concen: 2.36 ng
RT: 2.981 min Scan# 614
Delta R.T. 0.010 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 84 Resp: 598

Ion	Ratio	Lower	Upper
84	100		
86	53.0	35.2	95.2
49	137.8	78.3	138.3
51	39.5	4.0	64.0

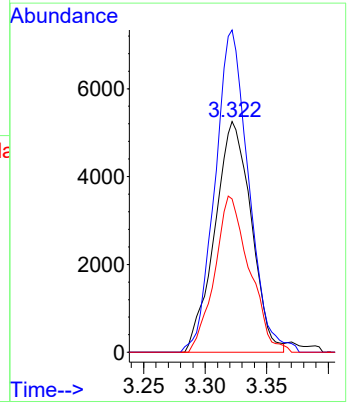


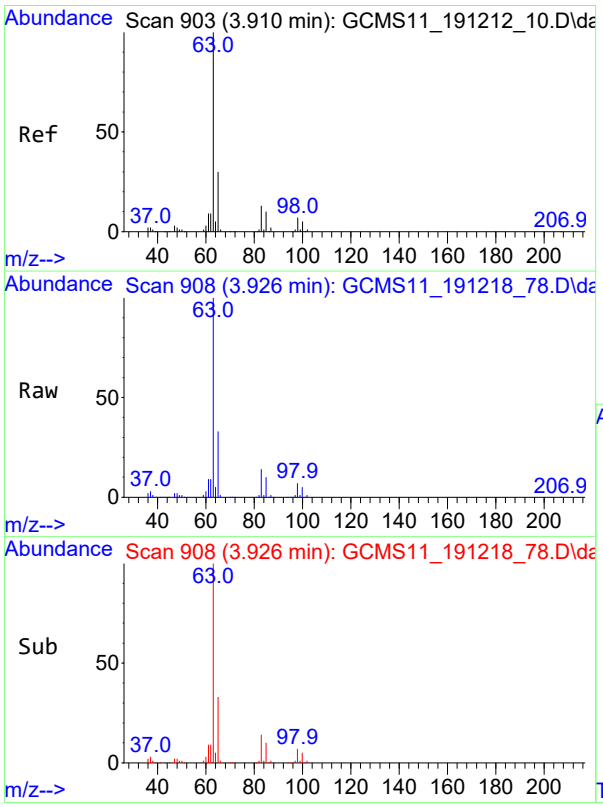


#14
trans-1,2-Dichloroethene
Concen: 45.94 ng
RT: 3.322 min Scan# 720
Delta R.T. 0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 96 Resp: 10842

Ion	Ratio	Lower	Upper
96	100		
61	128.9	99.6	159.6
98	64.6	35.3	95.3

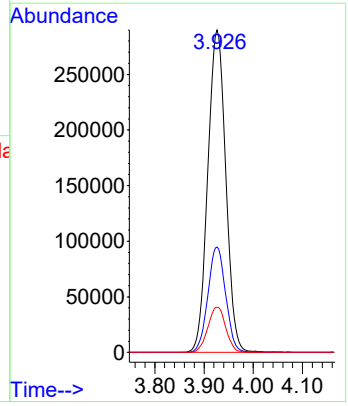


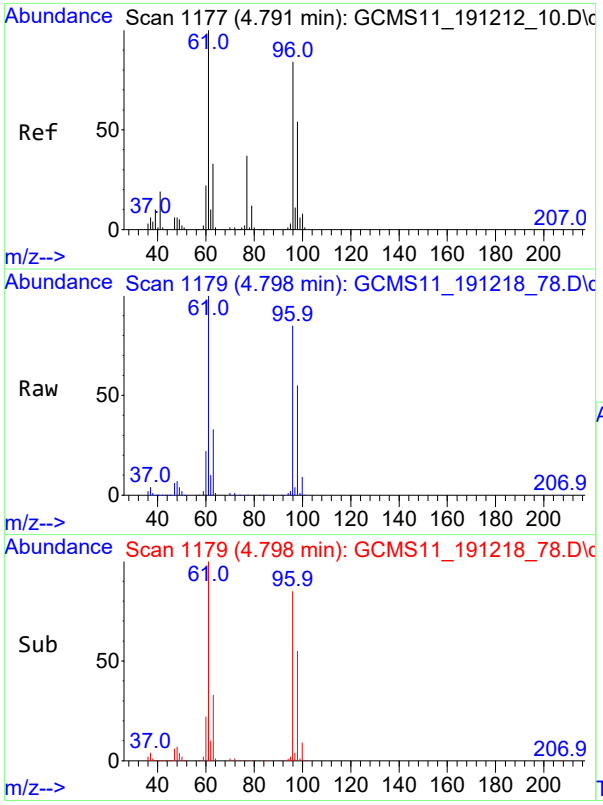


#16
1,1-Dichloroethane
Concen: 1883.04 ng
RT: 3.926 min Scan# 908
Delta R.T. 0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 63 Resp: 733888

Ion	Ratio	Lower	Upper
63	100		
65	32.3	2.8	62.8
83	14.0	0.0	44.3

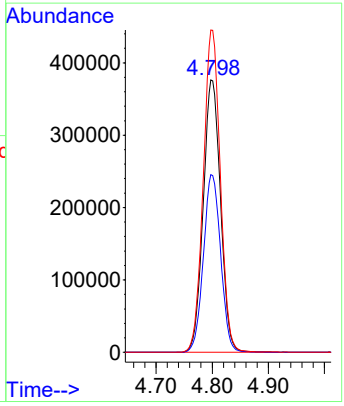


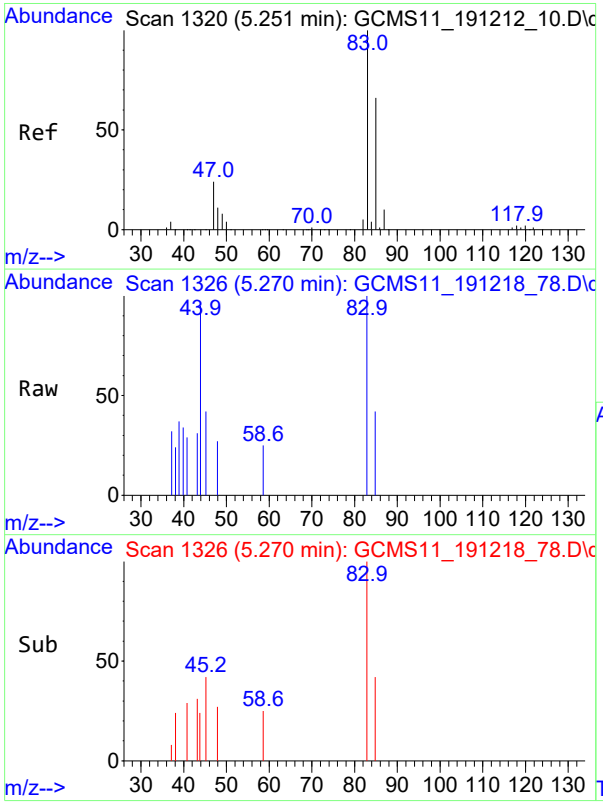


#18
cis-1,2-Dichloroethene
Concen: 3162.27 ng
RT: 4.798 min Scan# 1179
Delta R.T. -0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 96 Resp: 805496

Ion	Ratio	Lower	Upper
96	100		
98	65.1	30.6	90.6
61	116.6	96.6	156.6

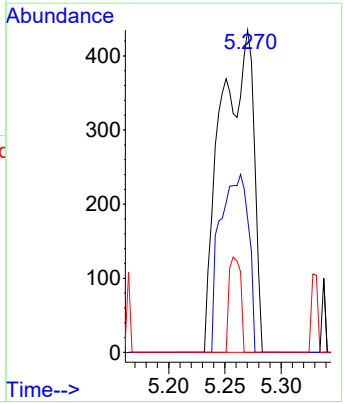


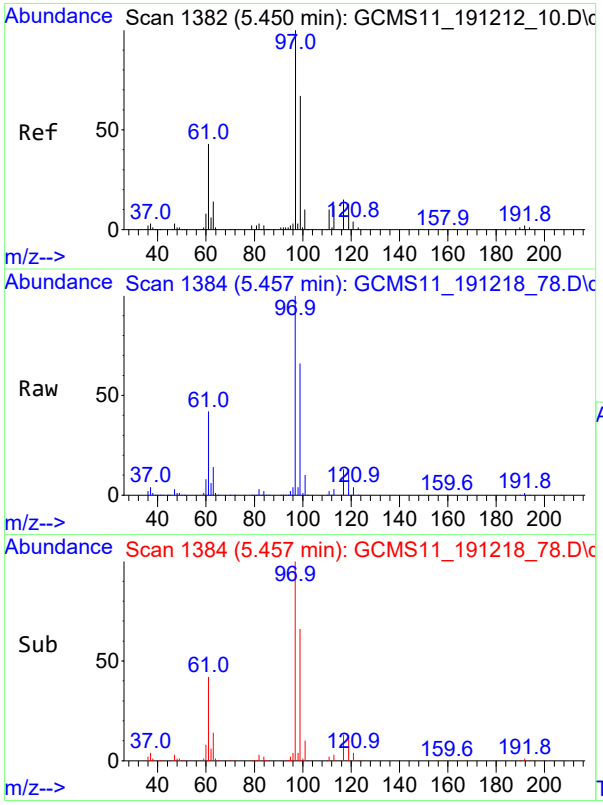


#21
Chloroform
Concen: 2.26 ng m
RT: 5.270 min Scan# 1326
Delta R.T. 0.013 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 83 Resp: 878

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

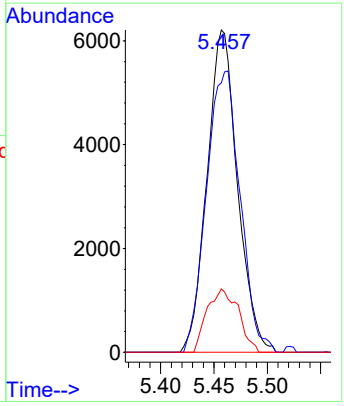


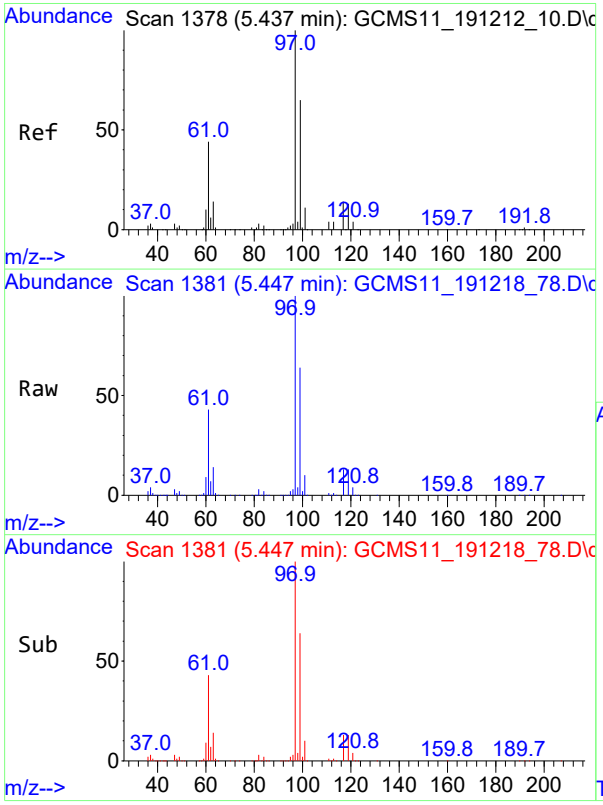


#22
DIBROMOFLUOROMETHANE
Concen: 58.32 ng
RT: 5.457 min Scan# 1384
Delta R.T. -0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion:113 Resp: 12355

Ion	Ratio	Lower	Upper
113	100		
111	96.2	75.2	135.2
192	20.3	0.0	52.1

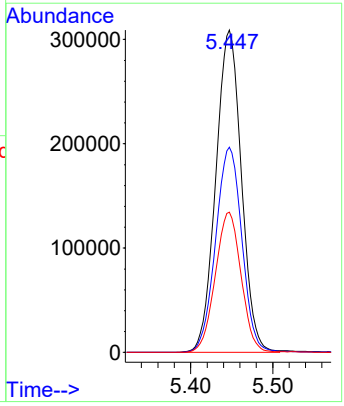


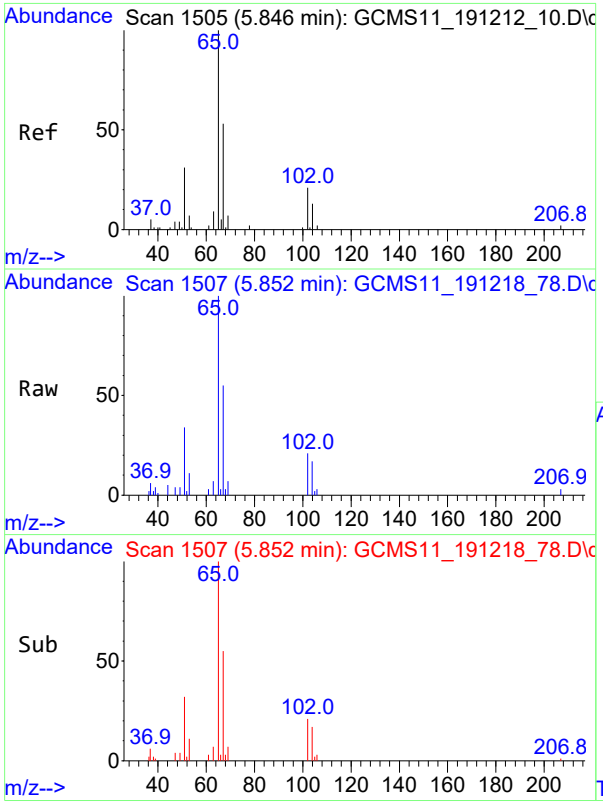


#23
1,1,1-Trichloroethane
Concen: 1894.07 ng
RT: 5.447 min Scan# 1381
Delta R.T. 0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 97 Resp: 669435

Ion	Ratio	Lower	Upper
97	100		
99	65.4	32.7	92.7
61	43.9	13.1	73.1

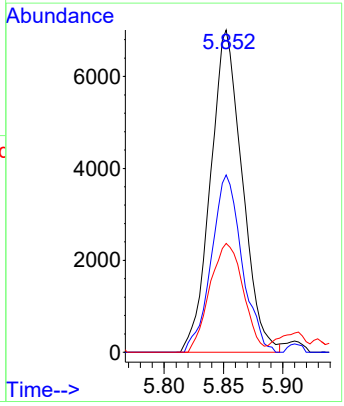


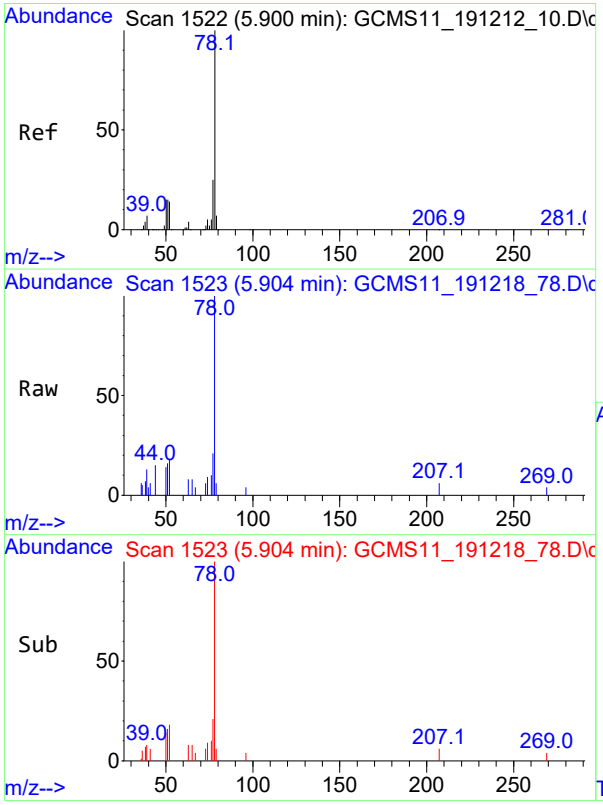


#26
1,2-DICHLOROETHANE-D4
Concen: 51.67 ng
RT: 5.852 min Scan# 1507
Delta R.T. 0.000 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 65 Resp: 13044

Ion	Ratio	Lower	Upper
65	100		
67	53.2	15.4	75.4
51	35.7	2.7	62.7

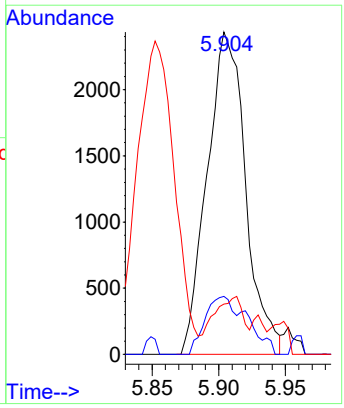


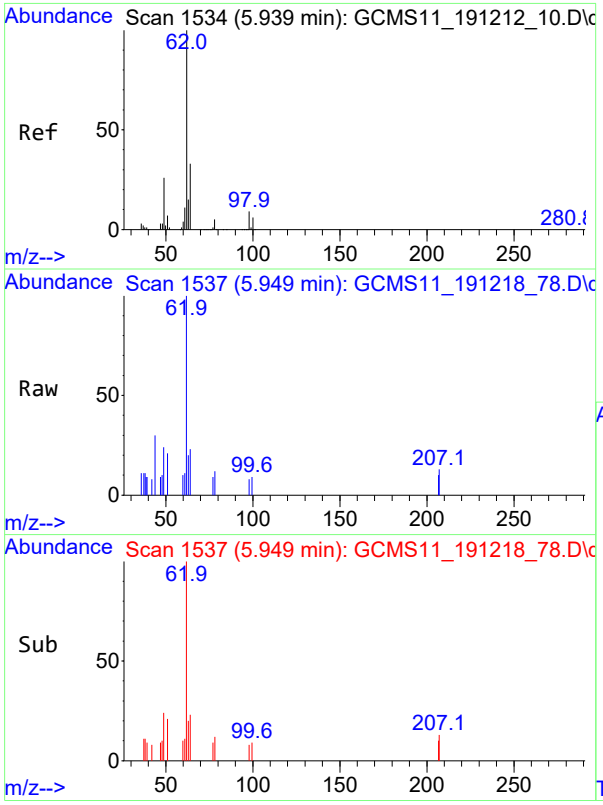


#27
Benzene
Concen: 4.98 ng
RT: 5.904 min Scan# 1523
Delta R.T. -0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 78 Resp: 4874

Ion	Ratio	Lower	Upper
78	100		
52	13.6	0.0	44.0
51	8.7	0.0	48.4

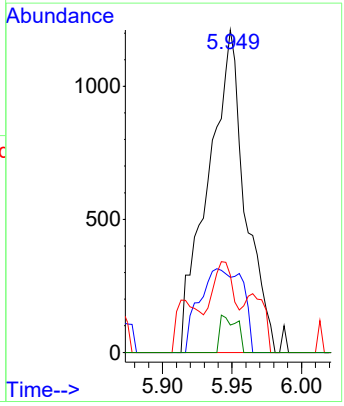


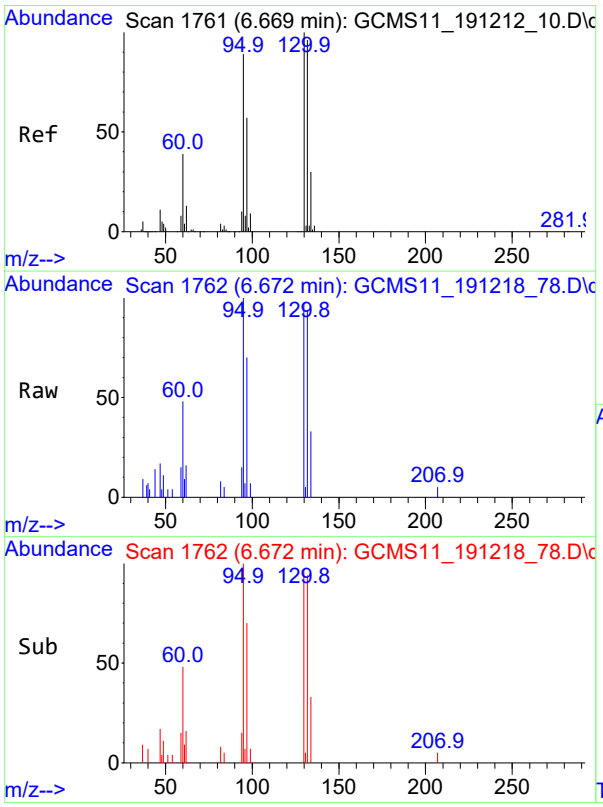


#28
1,2-Dichloroethane
Concen: 6.82 ng
RT: 5.949 min Scan# 1537
Delta R.T. 0.007 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 62 Resp: 2240

Ion	Ratio	Lower	Upper
62	100		
64	30.2	3.2	63.2
49	17.4	0.0	55.4
98	5.2	0.0	39.6

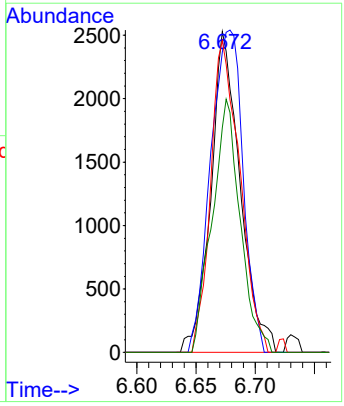


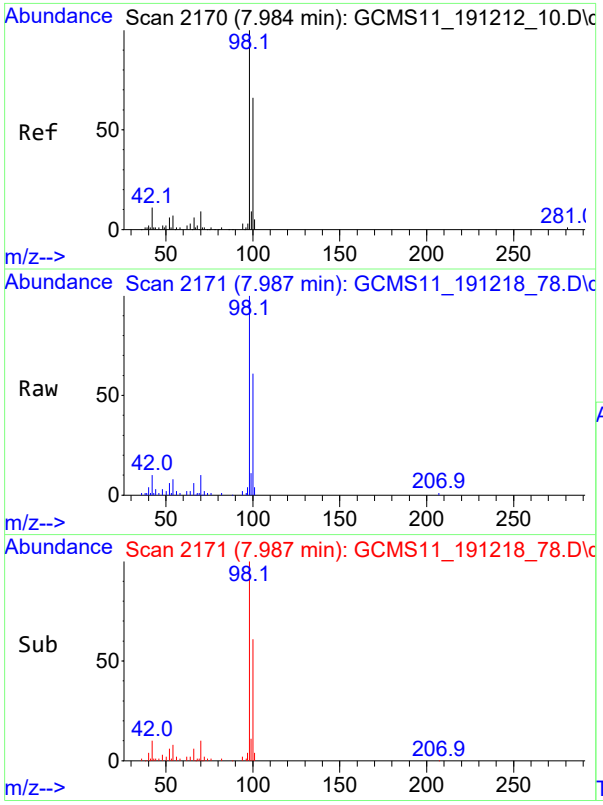


#29
Trichloroethene
Concen: 18.82 ng
RT: 6.672 min Scan# 1762
Delta R.T. -0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 95 Resp: 4342

Ion	Ratio	Lower	Upper
95	100		
132	111.1	78.7	138.7
130	96.4	86.1	146.1
97	75.6	37.2	97.2

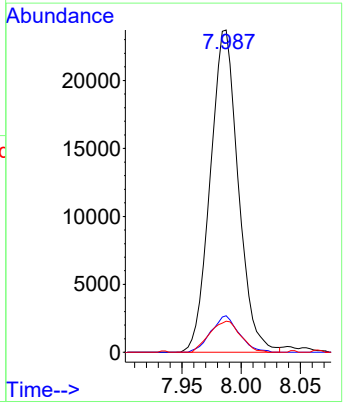


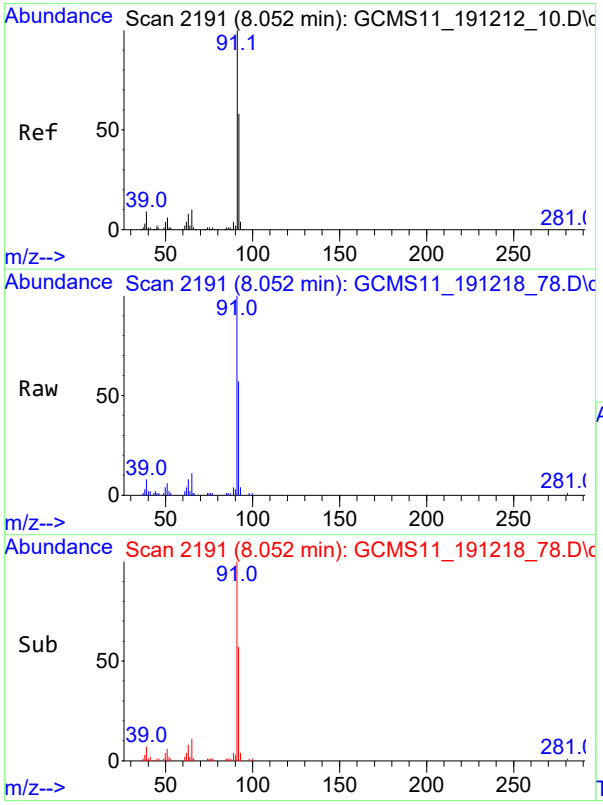


#37
TOLUENE-D8
Concen: 49.17 ng
RT: 7.987 min Scan# 2171
Delta R.T. 0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 98 Resp: 39003

Ion	Ratio	Lower	Upper
98	100		
99	11.4	0.0	39.8
70	10.7	0.0	40.7

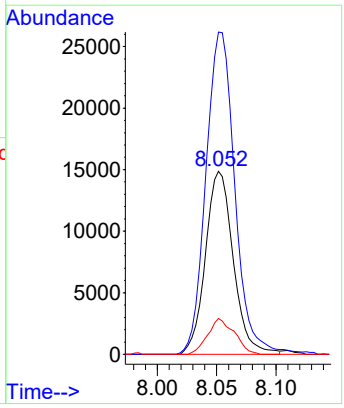


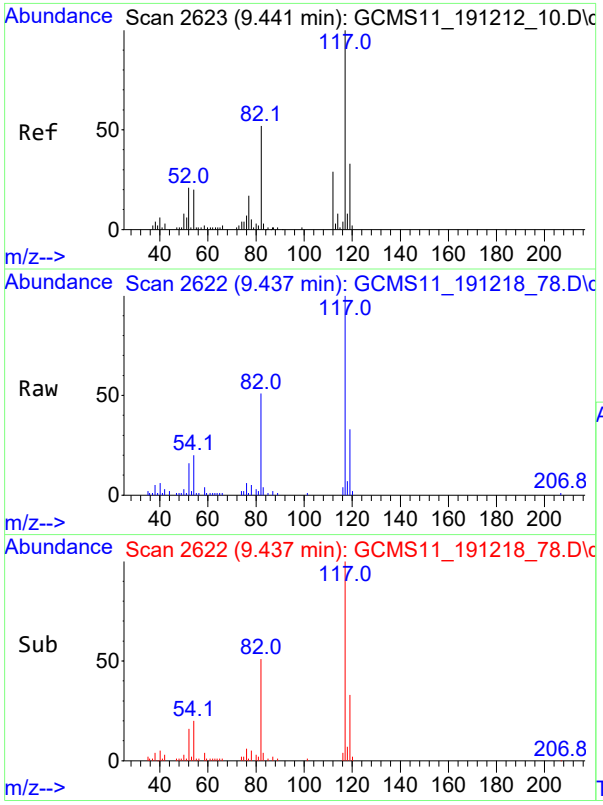


#38
Toluene
Concen: 44.49 ng
RT: 8.052 min Scan# 2191
Delta R.T. -0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 92 Resp: 24332

Ion	Ratio	Lower	Upper
92	100		
91	183.5	145.1	205.1
65	18.8	0.0	48.1

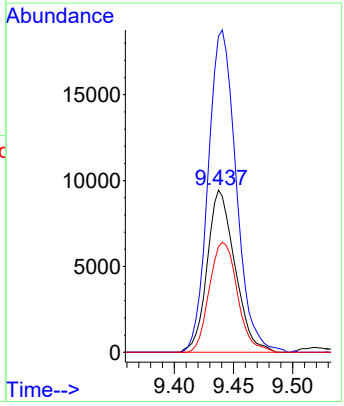


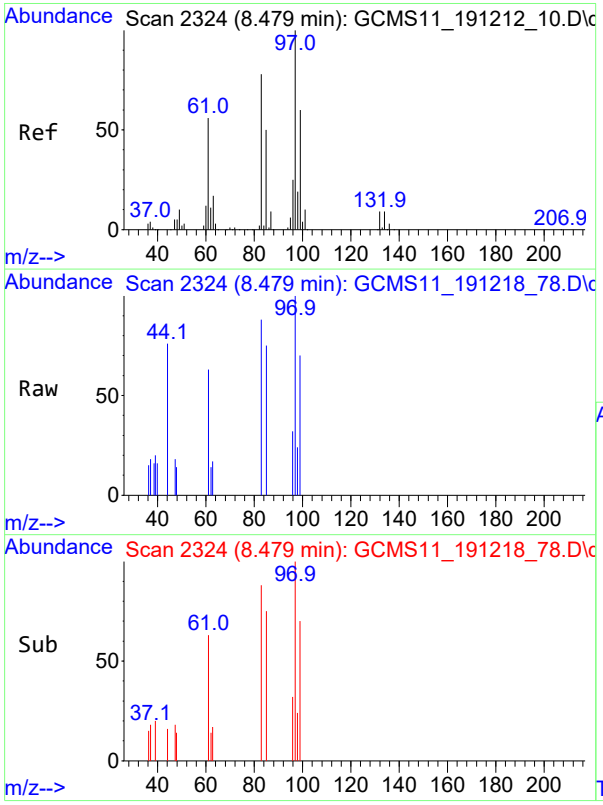


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.437 min Scan# 2622
Delta R.T. -0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 82 Resp: 15361

Ion	Ratio	Lower	Upper
82	100		
117	200.5	160.7	220.7
119	68.8	33.5	93.5

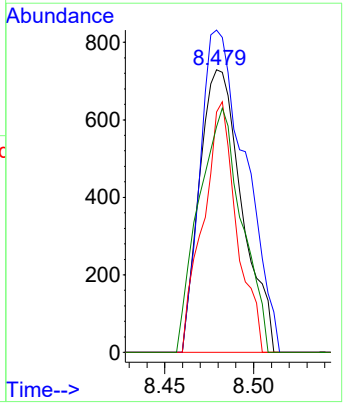


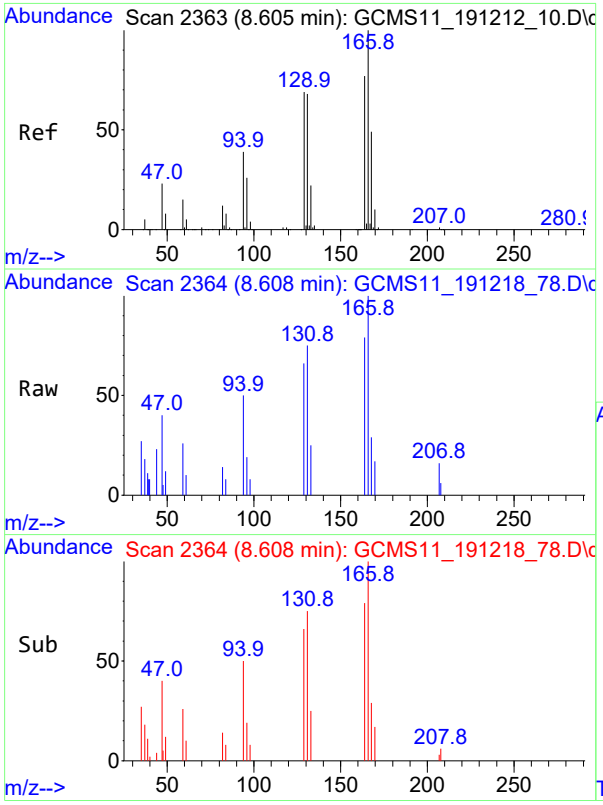


#41
1,1,2-Trichloroethane
Concen: 6.29 ng
RT: 8.479 min Scan# 2324
Delta R.T. -0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 83 Resp: 1212

Ion	Ratio	Lower	Upper
83	100		
97	121.9	90.7	150.7
85	70.0	37.5	97.5
99	87.6	46.8	106.8

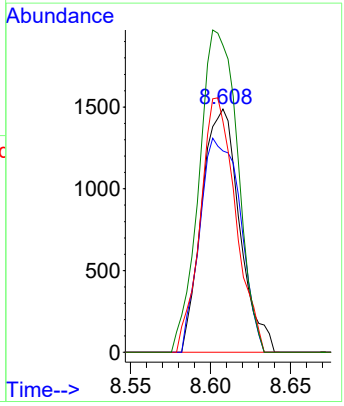


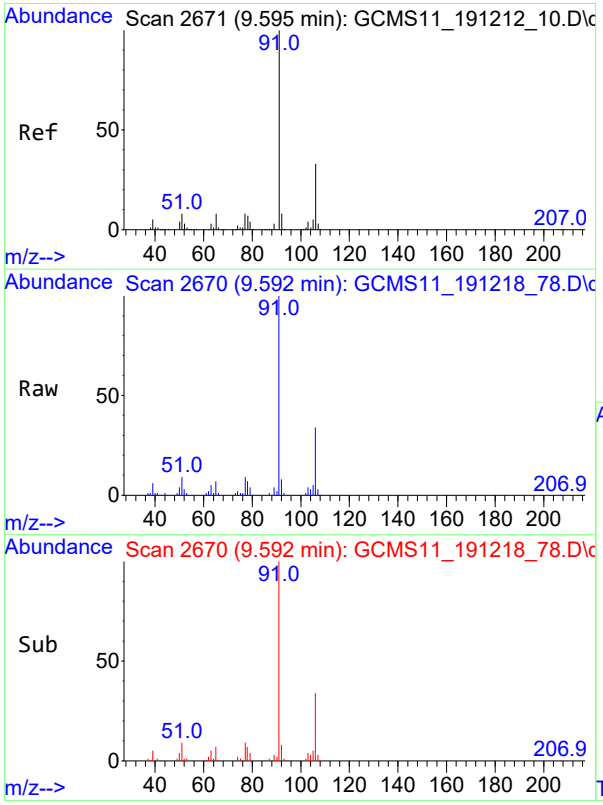


#42
Tetrachloroethene
Concen: 12.68 ng
RT: 8.608 min Scan# 2364
Delta R.T. 0.004 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion:164 Resp: 2452

Ion	Ratio	Lower	Upper
164	100		
129	93.8	57.5	117.5
131	97.5	55.8	115.8
166	135.3	99.4	159.4

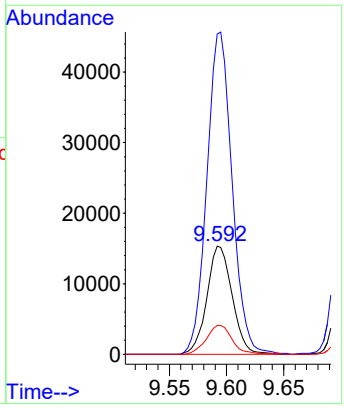


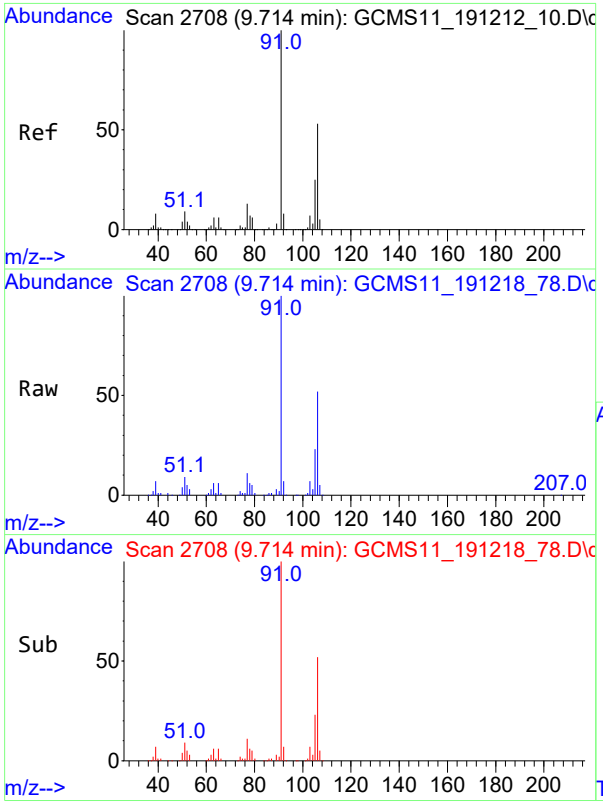


#49
Ethylbenzene
Concen: 69.40 ng
RT: 9.592 min Scan# 2670
Delta R.T. -0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion:106 Resp: 23599

Ion	Ratio	Lower	Upper
106	100		
91	297.6	267.1	327.1
77	27.6	0.0	57.1

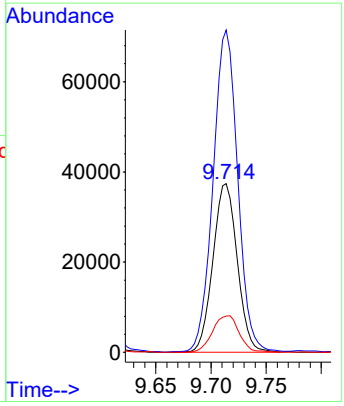


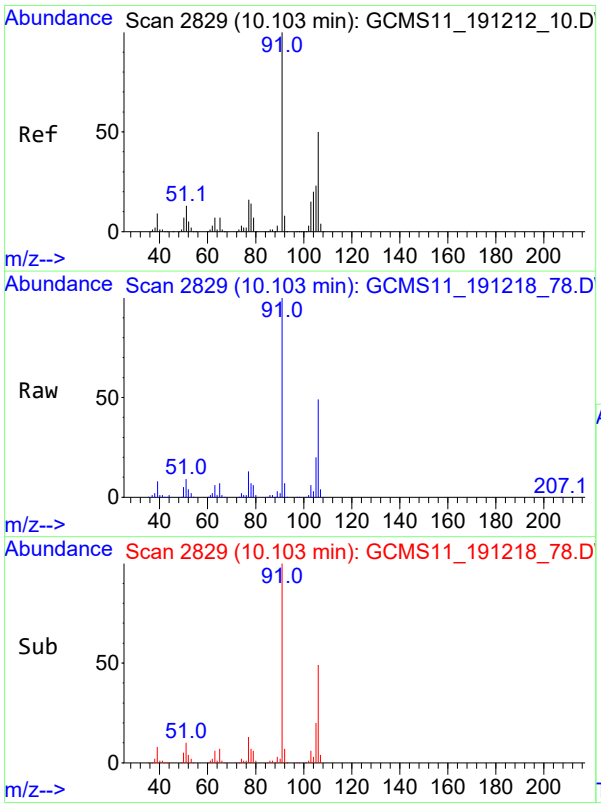


#50
m+p-Xylene
Concen: 133.19 ng
RT: 9.714 min Scan# 2708
Delta R.T. 0.000 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion:106 Resp: 57299

Ion	Ratio	Lower	Upper
106	100		
91	193.2	160.8	220.8
77	23.8	0.0	54.6

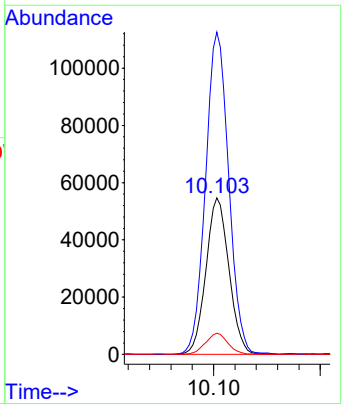


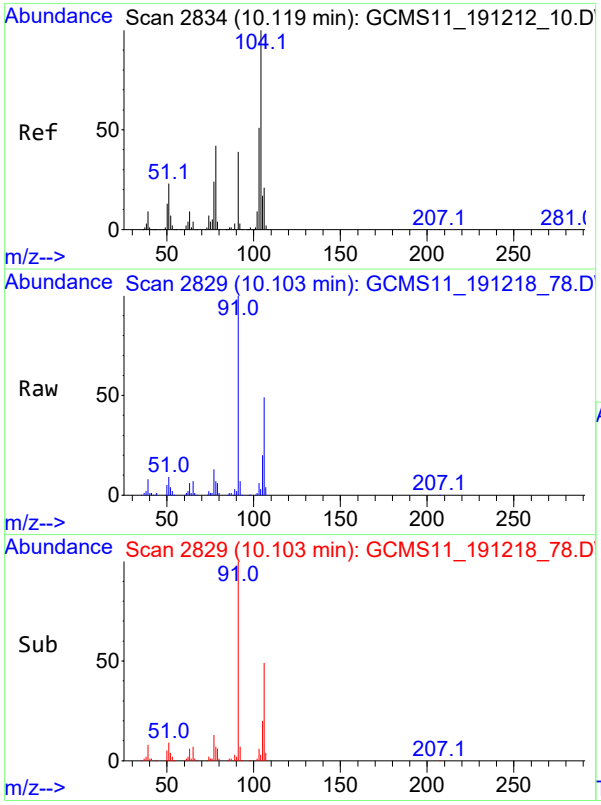


#51
o-Xylene
Concen: 197.02 ng
RT: 10.103 min Scan# 2829
Delta R.T. 0.000 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion:106 Resp: 81882

Ion	Ratio	Lower	Upper
106	100		
91	207.1	178.4	238.4
65	13.3	0.0	45.9

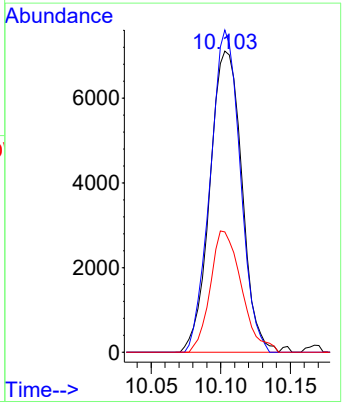


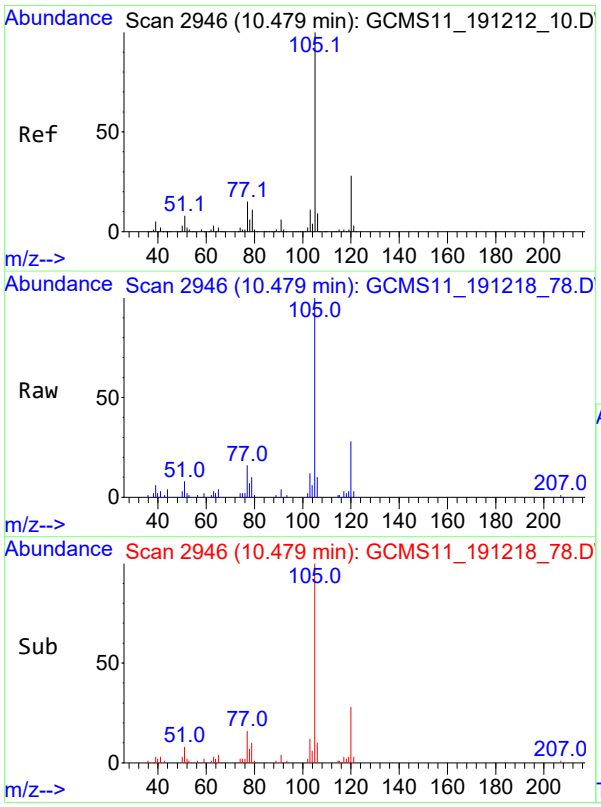


#52
Styrene
Concen: 28.87 ng
RT: 10.103 min Scan# 2829
Delta R.T. -0.019 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion:103 Resp: 11347

Ion	Ratio	Lower	Upper
103	100		
78	100.3	54.1	114.1
104	39.3	150.1	210.1#

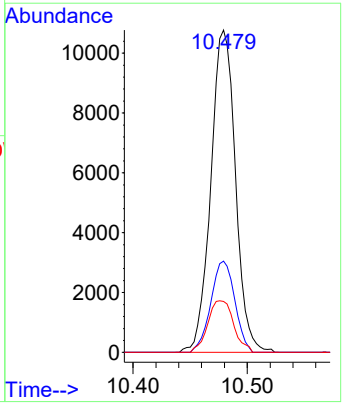


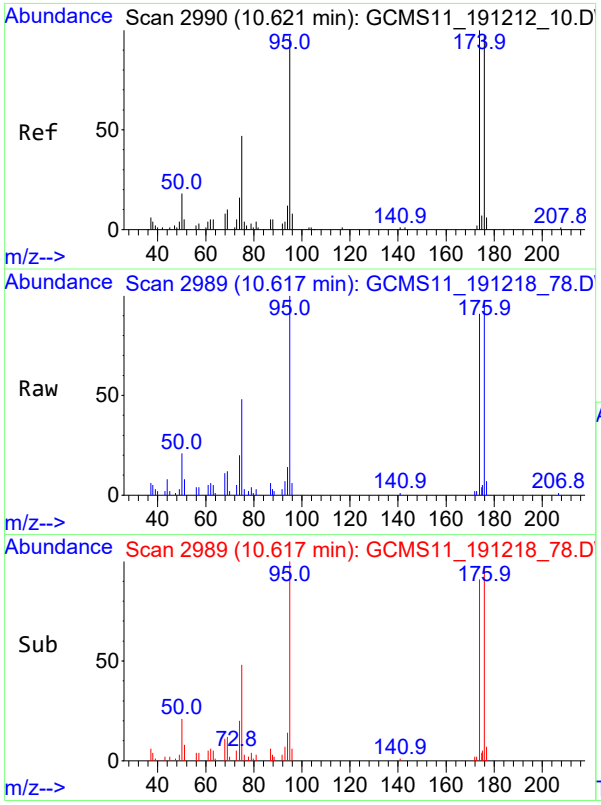


#54
Isopropylbenzene
Concen: 14.75 ng
RT: 10.479 min Scan# 2946
Delta R.T. 0.000 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion:105 Resp: 16180

Ion	Ratio	Lower	Upper
105	100		
120	27.6	0.0	59.2
77	16.8	0.0	44.3

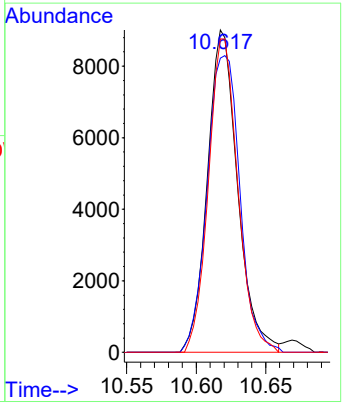


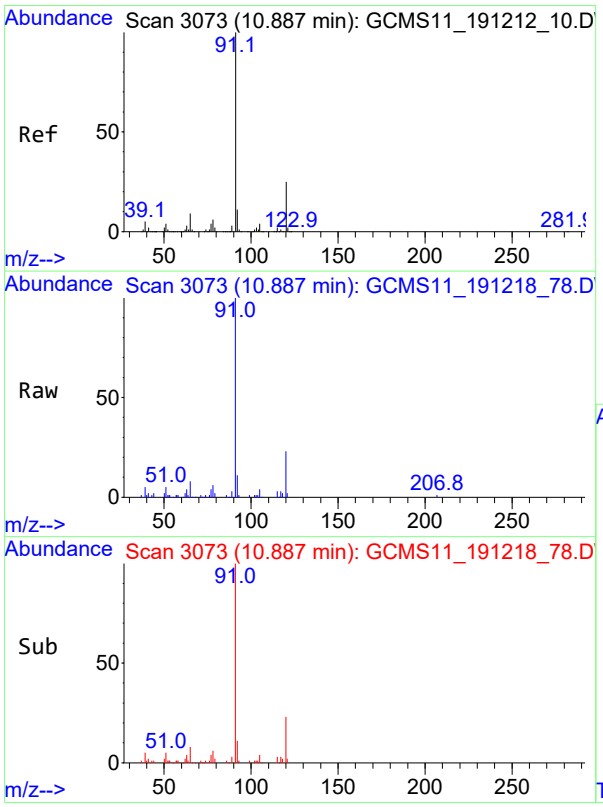


#55
4-BROMOFLUOROBENZENE
Concen: 48.78 ng
RT: 10.617 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 95 Resp: 13586

Ion	Ratio	Lower	Upper
95	100		
174	99.9	68.5	128.5
176	94.7	66.8	126.8

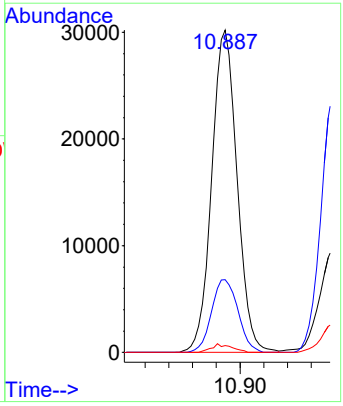


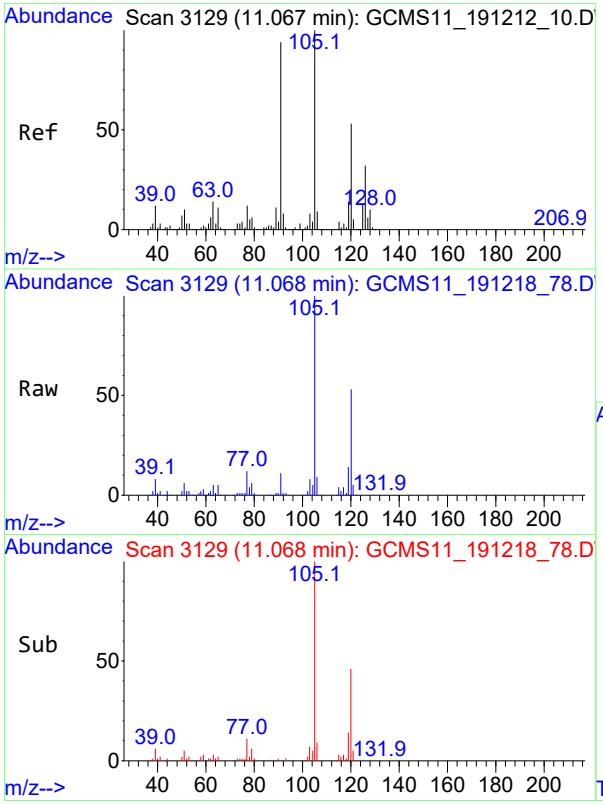


#58
n-Propylbenzene
Concen: 36.30 ng
RT: 10.887 min Scan# 3073
Delta R.T. 0.000 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 91 Resp: 44787

Ion	Ratio	Lower	Upper
91	100		
120	23.5	0.0	55.0
121	2.1	0.0	32.4

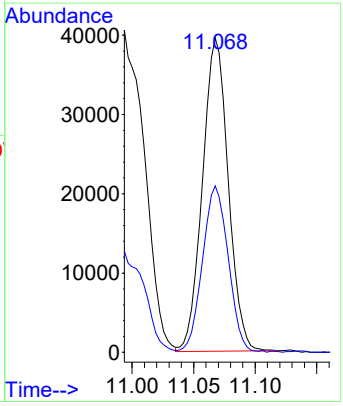


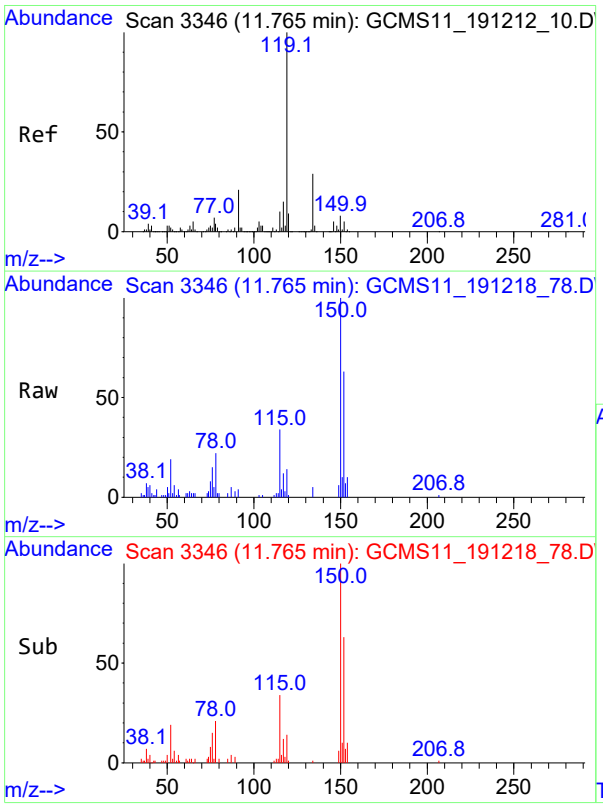


#60
1,3,5-Trimethylbenzene
Concen: 64.43 ng
RT: 11.068 min Scan# 3129
Delta R.T. -0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion:105 Resp: 57576

Ion	Ratio	Lower	Upper
105	100		
120	53.2	22.4	82.4

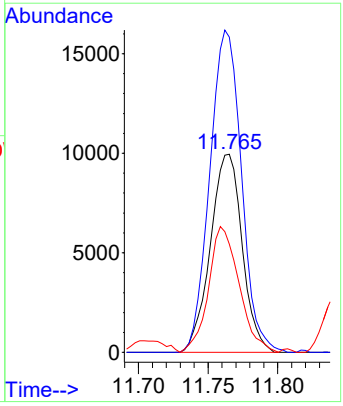


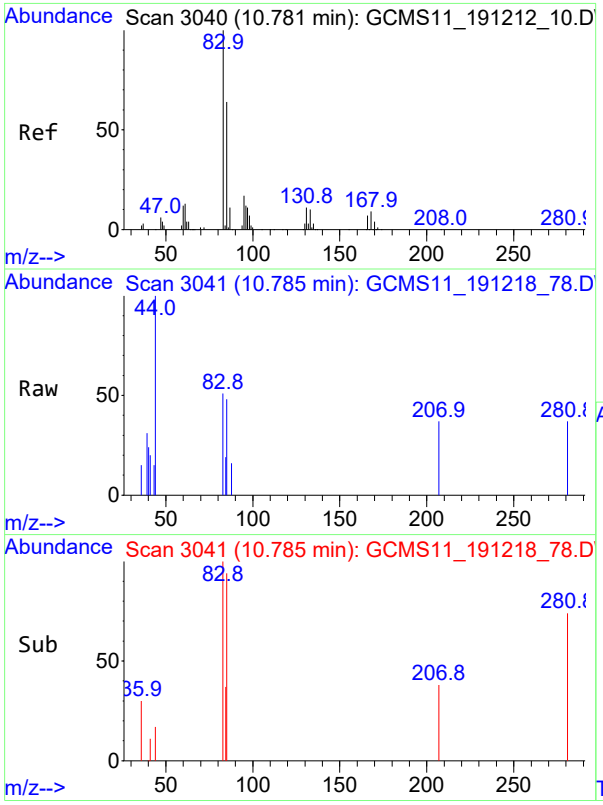


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.765 min Scan# 3346
Delta R.T. 0.000 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion:152 Resp: 15818

Ion	Ratio	Lower	Upper
152	100		
150	161.9	162.5	222.5#
115	61.0	82.3	142.3#

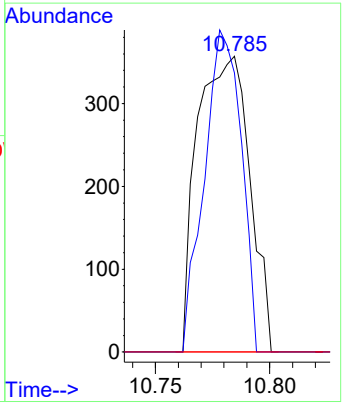


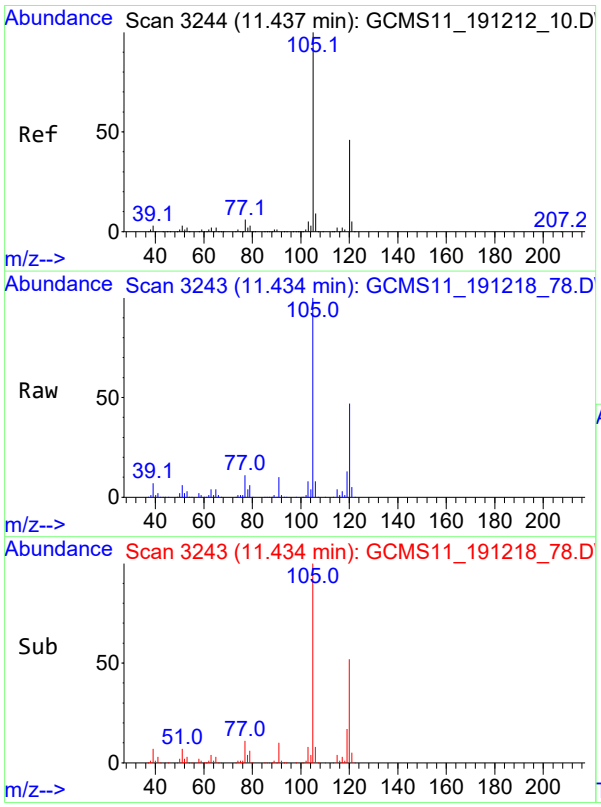


#63
1,1,2,2-Tetrachloroethane
Concen: 2.00 ng
RT: 10.785 min Scan# 3041
Delta R.T. 0.000 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 83 Resp: 568

Ion	Ratio	Lower	Upper
83	100		
85	76.9	35.1	95.1
131	0.0	0.0	41.4

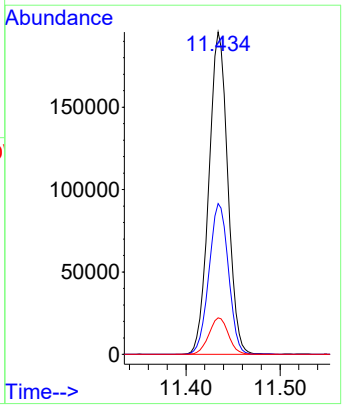


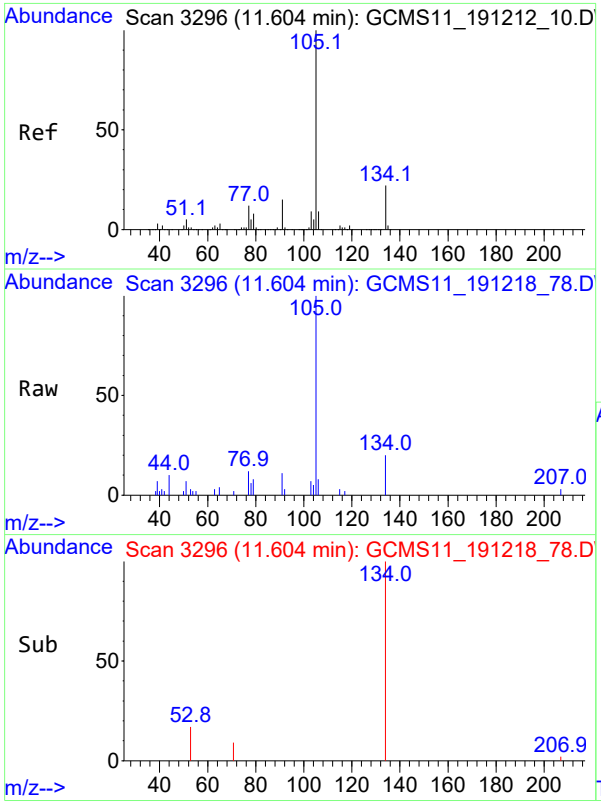


#65
1,2,4-Trimethylbenzene
Concen: 319.26 ng
RT: 11.434 min Scan# 3243
Delta R.T. -0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion:105 Resp: 272532

Ion	Ratio	Lower	Upper
105	100		
120	48.2	18.6	78.6
77	11.8	0.0	41.4

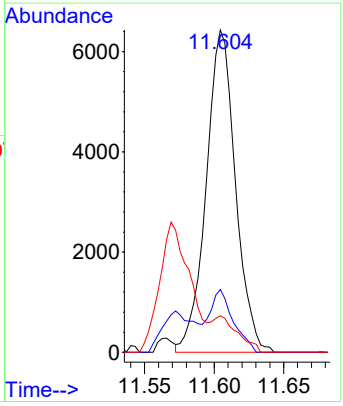


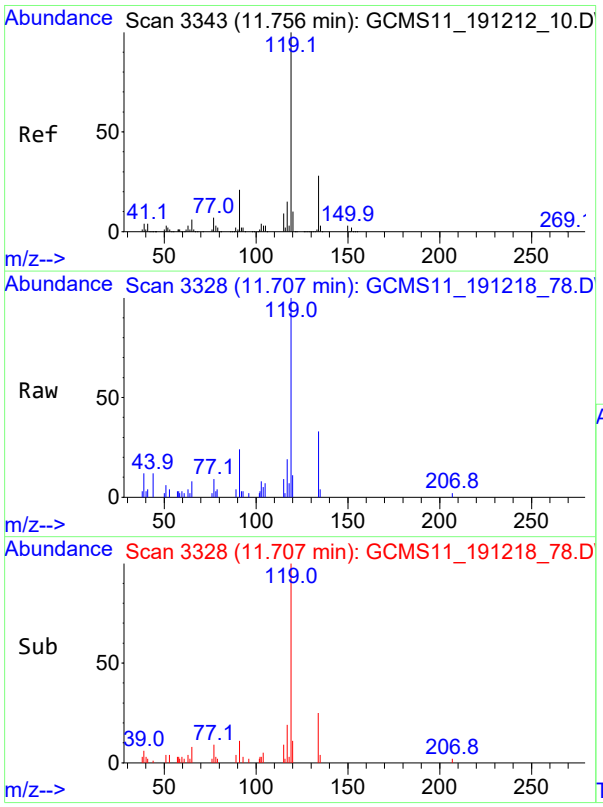


#66
sec-Butylbenzene
Concen: 8.98 ng
RT: 11.604 min Scan# 3296
Delta R.T. -0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion:105 Resp: 9409

Ion	Ratio	Lower	Upper
105	100		
134	15.5	0.0	52.3
91	0.0	0.0	45.3

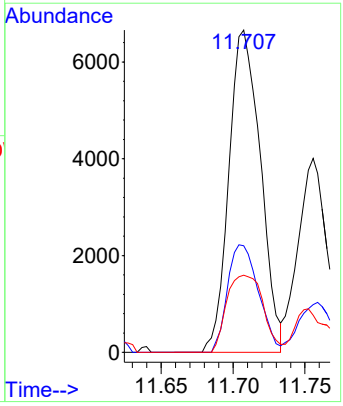


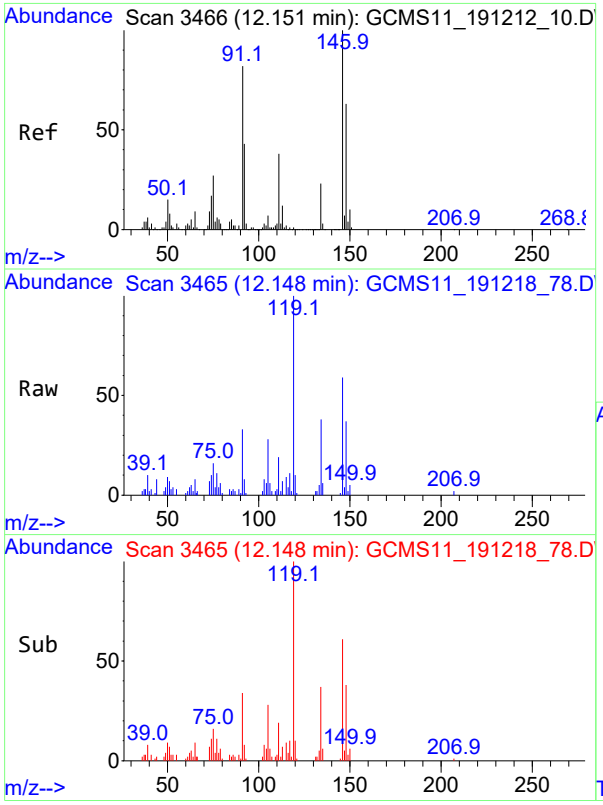


#68
p-Isopropyltoluene
Concen: 11.10 ng m
RT: 11.707 min Scan# 3328
Delta R.T. -0.051 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion:119 Resp: 10180

Ion	Ratio	Lower	Upper
119	100		
134	15.4	0.0	57.5
91	13.4	0.0	51.3

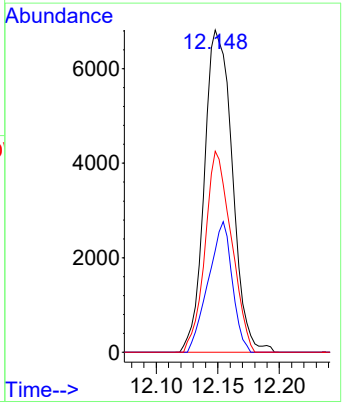


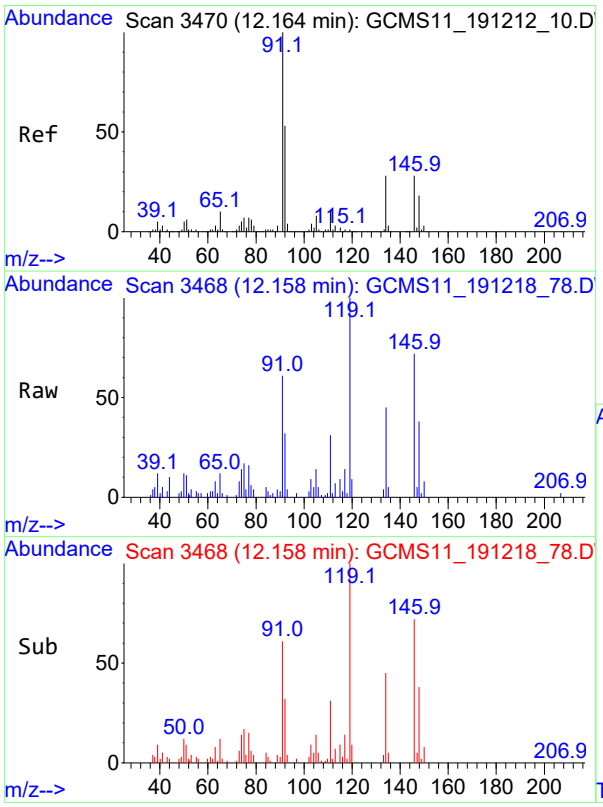


#70
1,2-Dichlorobenzene
Concen: 20.42 ng
RT: 12.148 min Scan# 3465
Delta R.T. -0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion:146 Resp: 10782

Ion	Ratio	Lower	Upper
146	100		
111	34.7	8.4	68.4
148	58.6	34.6	94.6

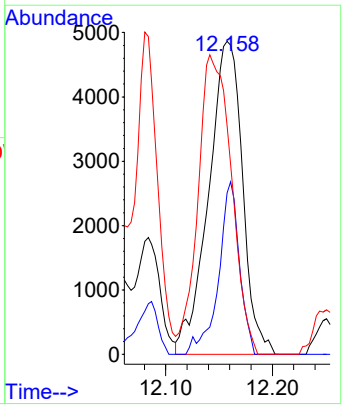


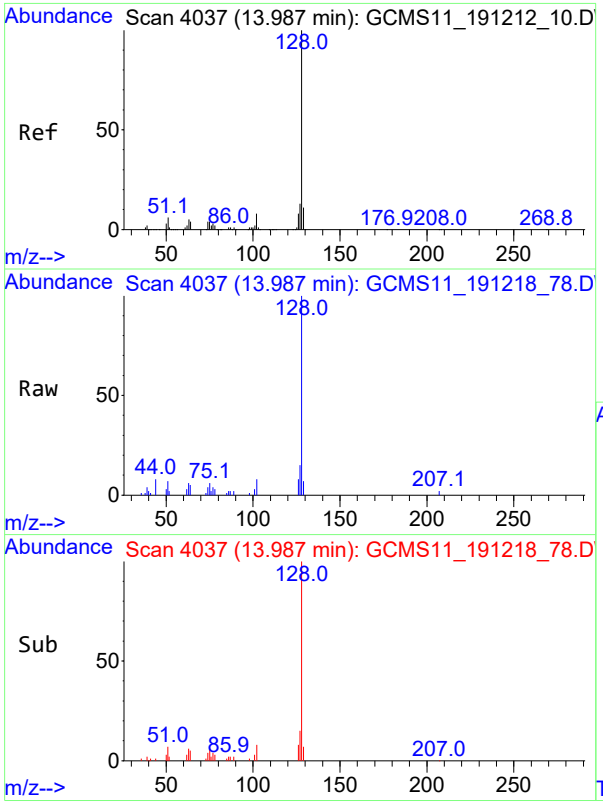


#71
n-Butylbenzene
Concen: 13.21 ng
RT: 12.158 min Scan# 3468
Delta R.T. -0.003 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion: 91 Resp: 10771

Ion	Ratio	Lower	Upper
91	100		
92	33.9	22.0	82.0
134	93.9	0.0	58.4#

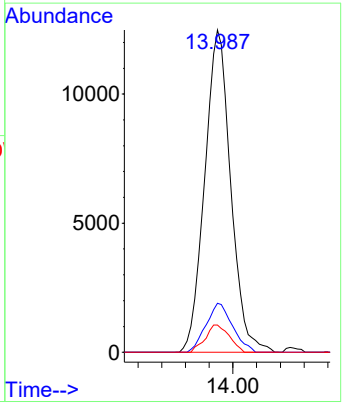




#75
Naphthalene
Concen: 20.86 ng
RT: 13.987 min Scan# 4037
Delta R.T. 0.000 min
Lab File: GCMS11_191218_78.D
Acq: 20 Dec 2019 6:10 am

Tgt Ion:128 Resp: 19025

Ion	Ratio	Lower	Upper
128	100		
127	15.5	0.0	43.5
102	7.8	0.0	37.4



Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_53.D
Acq On : 19 Dec 2019 5:52 pm
Operator : ko
Sample : B19L026-BLK1
Misc : LIMS 19L1101
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 20 09:49:55 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

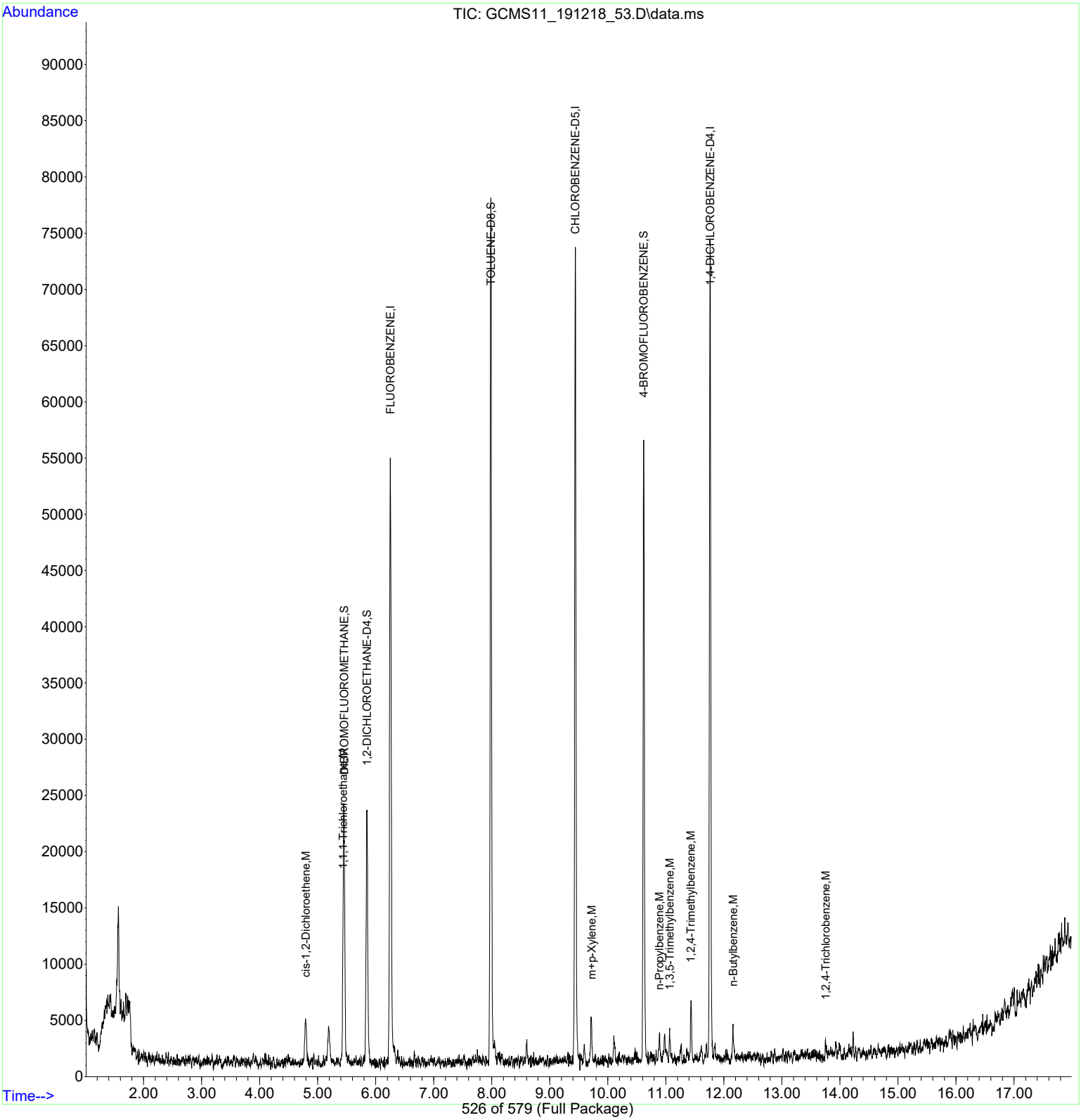
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.254	96	49646	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.437	82	18665	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.762	152	18903	50.00	ng	#	0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.457	113	14614	56.05	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.849	65	14999	48.27	ng		0.00
37) TOLUENE-D8	7.984	98	51102	52.34	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.617	95	15974	47.20	ng		0.00
Target Compounds							Qvalue
18) cis-1,2-Dichloroethene	4.794	96	1988	6.34	ng		95
23) 1,1,1-Trichloroethane	5.437	97	1737	3.99	ng	#	60
50) m+p-Xylene	9.720	106	1113	2.13	ng		89
58) n-Propylbenzene	10.887	91	1502	1.00	ng	#	90
60) 1,3,5-Trimethylbenzene	11.067	105	1102	1.01	ng		87
65) 1,2,4-Trimethylbenzene	11.431	105	2860	2.80	ng		90
71) n-Butylbenzene	12.161	91	1230	1.26	ng		79
73) 1,2,4-Trichlorobenzene	13.755	180	507	1.19	ng		95

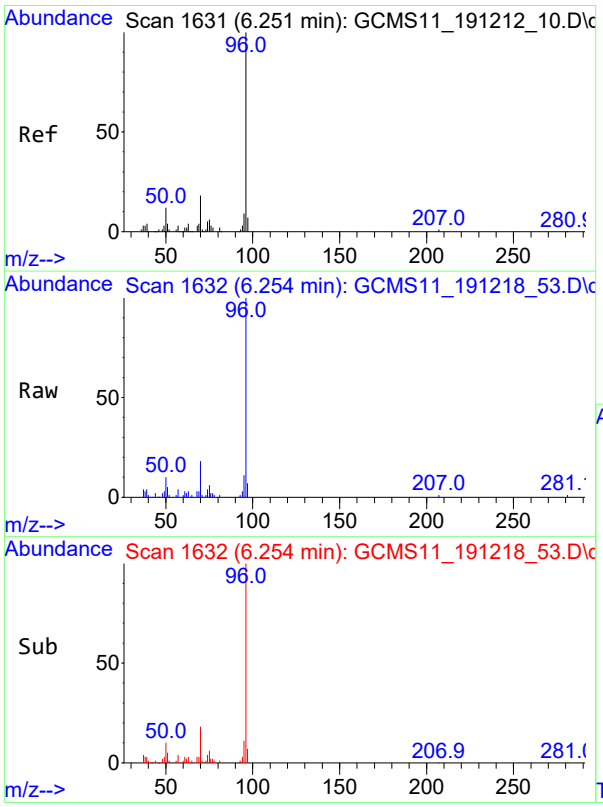
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_53.D
Acq On : 19 Dec 2019 5:52 pm
Operator : ko
Sample : B19L026-BLK1
Misc : LIMS 19L1101
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 20 09:49:55 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

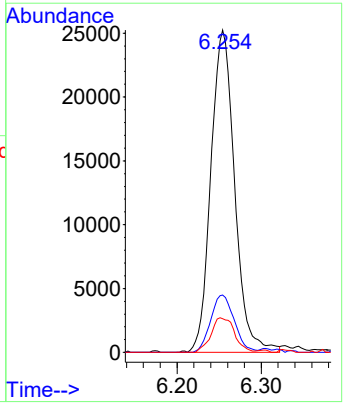


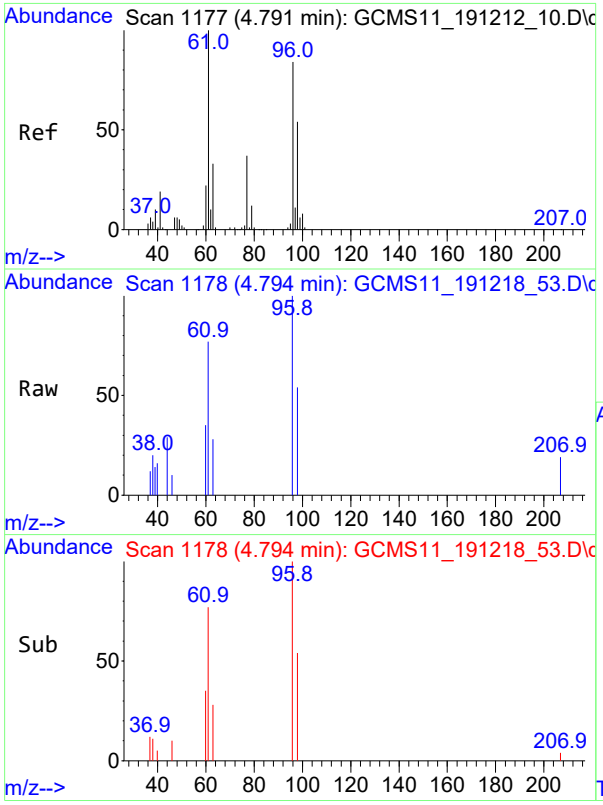


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.254 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191218_53.D
Acq: 19 Dec 2019 5:52 pm

Tgt Ion: 96 Resp: 49646

Ion	Ratio	Lower	Upper
96	100		
70	17.7	0.0	48.3
50	10.6	0.0	39.5

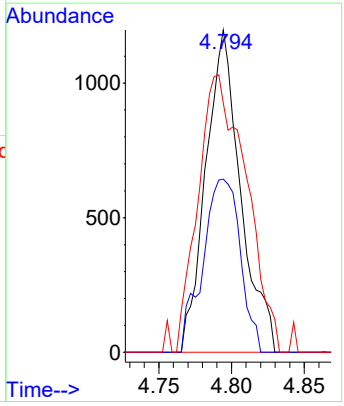


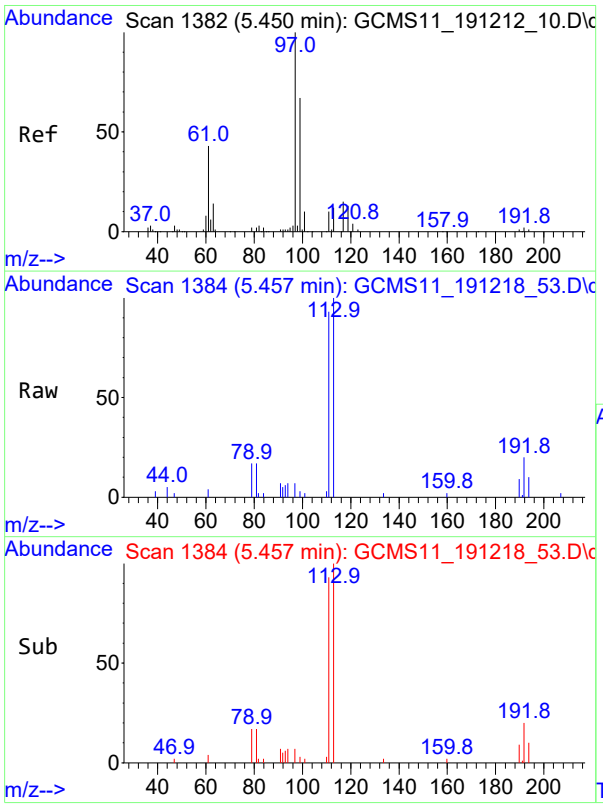


#18
cis-1,2-Dichloroethene
Concen: 6.34 ng
RT: 4.794 min Scan# 1178
Delta R.T. -0.006 min
Lab File: GCMS11_191218_53.D
Acq: 19 Dec 2019 5:52 pm

Tgt Ion: 96 Resp: 1988

Ion	Ratio	Lower	Upper
96	100		
98	58.0	30.6	90.6
61	119.5	96.6	156.6

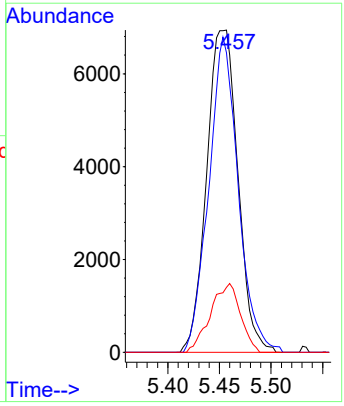


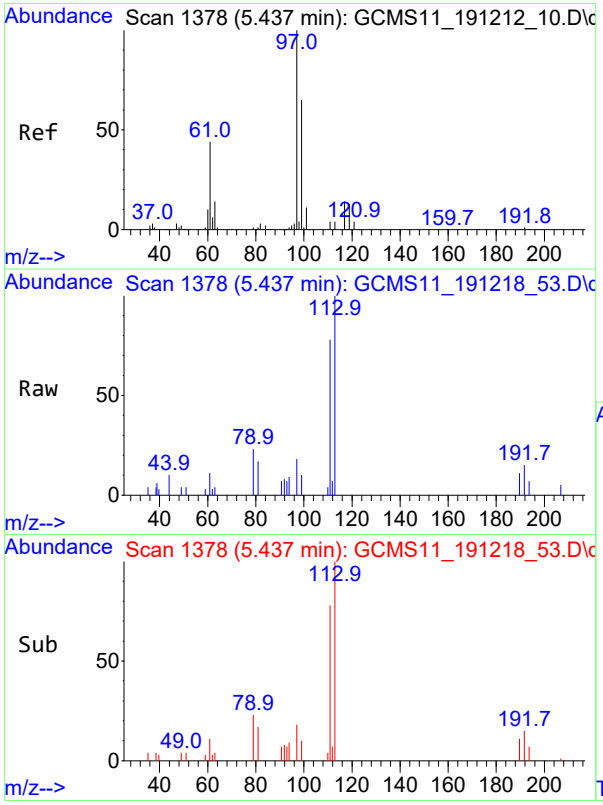


#22
DIBROMOFLUOROMETHANE
Concen: 56.05 ng
RT: 5.457 min Scan# 1384
Delta R.T. -0.003 min
Lab File: GCMS11_191218_53.D
Acq: 19 Dec 2019 5:52 pm

Tgt Ion:113 Resp: 14614

Ion	Ratio	Lower	Upper
113	100		
111	92.0	75.2	135.2
192	20.5	0.0	52.1

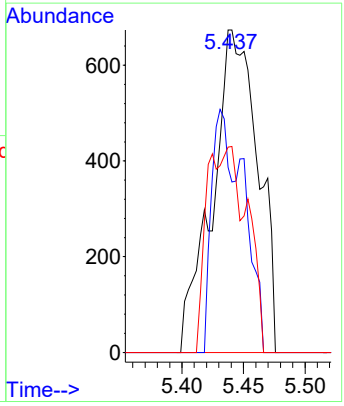


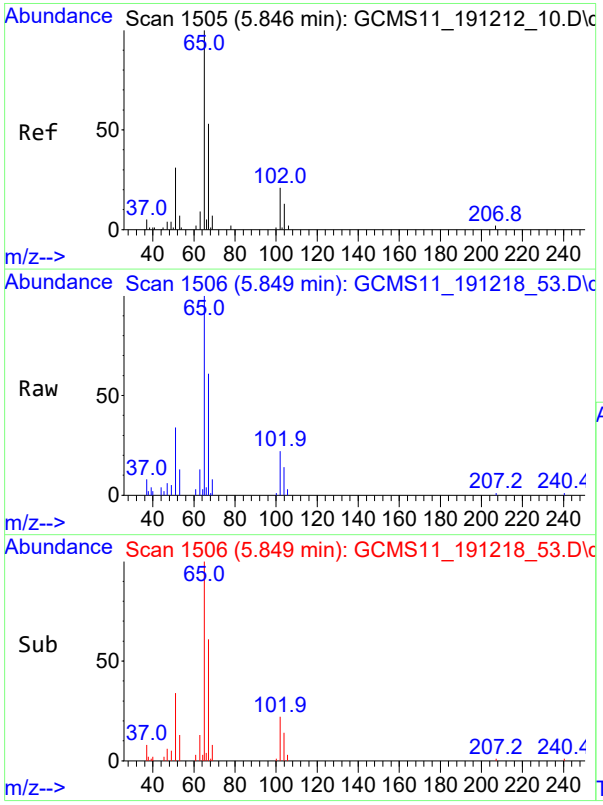


#23
1,1,1-Trichloroethane
Concen: 3.99 ng
RT: 5.437 min Scan# 1378
Delta R.T. -0.006 min
Lab File: GCMS11_191218_53.D
Acq: 19 Dec 2019 5:52 pm

Tgt Ion: 97 Resp: 1737

Ion	Ratio	Lower	Upper
97	100		
99	31.0	32.7	92.7#
61	17.7	13.1	73.1

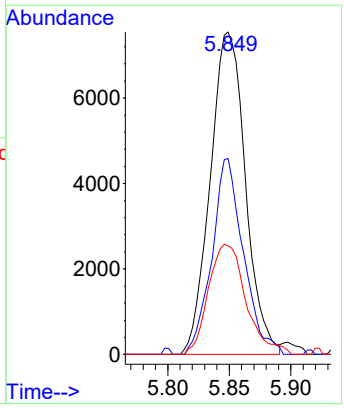


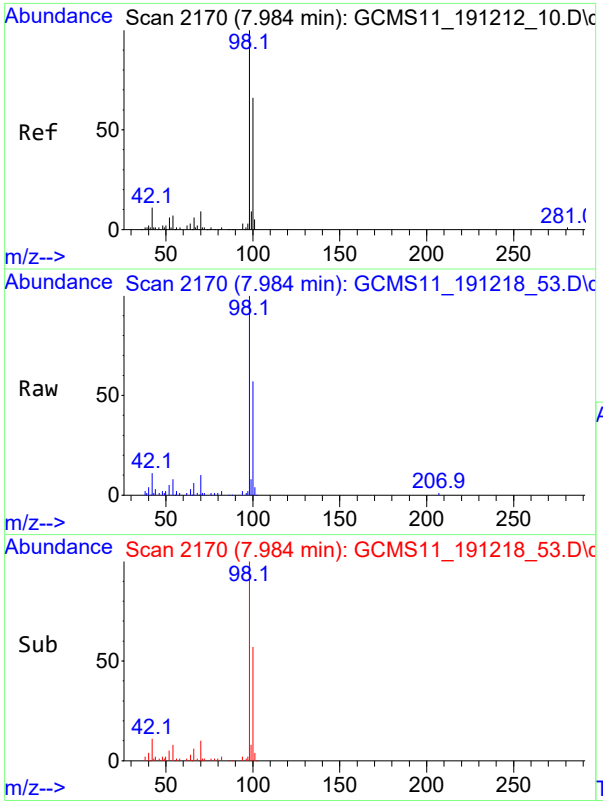


#26
1,2-DICHLOROETHANE-D4
Concen: 48.27 ng
RT: 5.849 min Scan# 1506
Delta R.T. -0.003 min
Lab File: GCMS11_191218_53.D
Acq: 19 Dec 2019 5:52 pm

Tgt Ion: 65 Resp: 14999

Ion	Ratio	Lower	Upper
65	100		
67	54.4	15.4	75.4
51	36.4	2.7	62.7

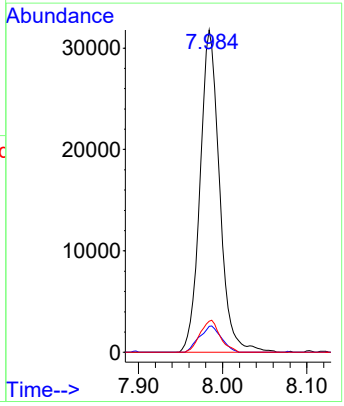


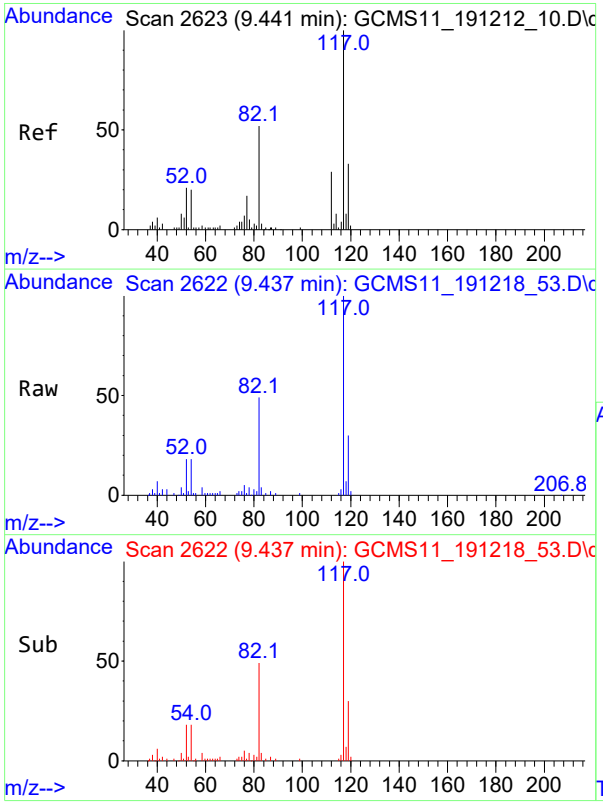


#37
TOLUENE-D8
Concen: 52.34 ng
RT: 7.984 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191218_53.D
Acq: 19 Dec 2019 5:52 pm

Tgt Ion: 98 Resp: 51102

Ion	Ratio	Lower	Upper
98	100		
99	9.2	0.0	39.8
70	10.2	0.0	40.7

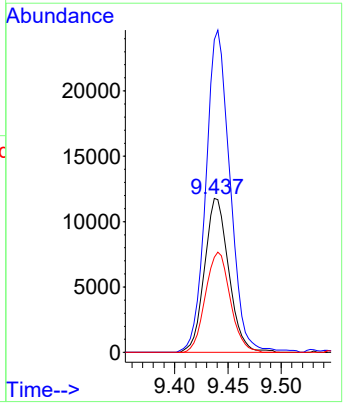


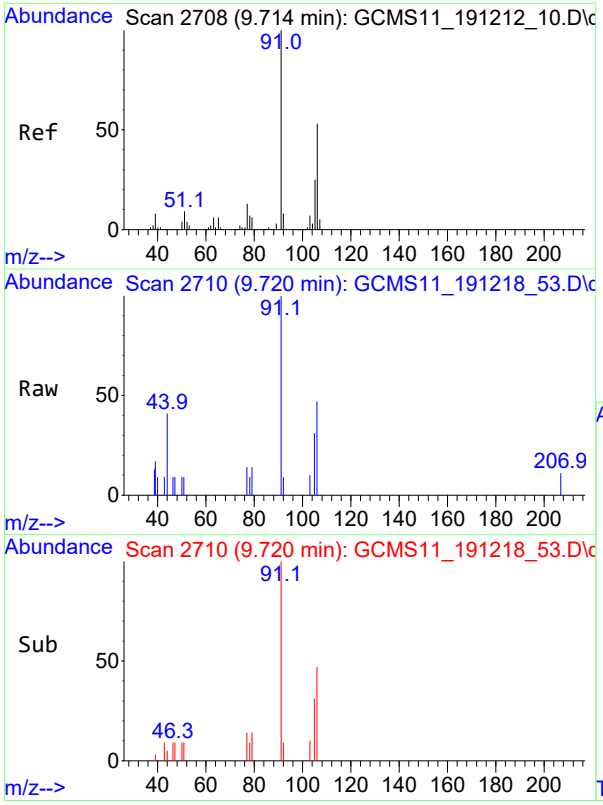


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.437 min Scan# 2622
Delta R.T. -0.003 min
Lab File: GCMS11_191218_53.D
Acq: 19 Dec 2019 5:52 pm

Tgt Ion: 82 Resp: 18665

Ion	Ratio	Lower	Upper
82	100		
117	208.2	160.7	220.7
119	66.6	33.5	93.5

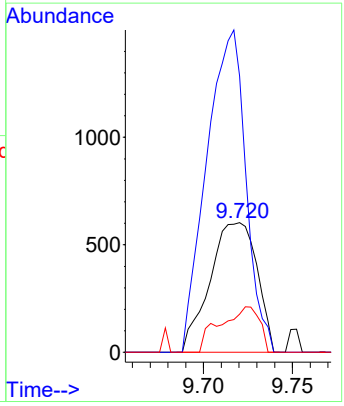


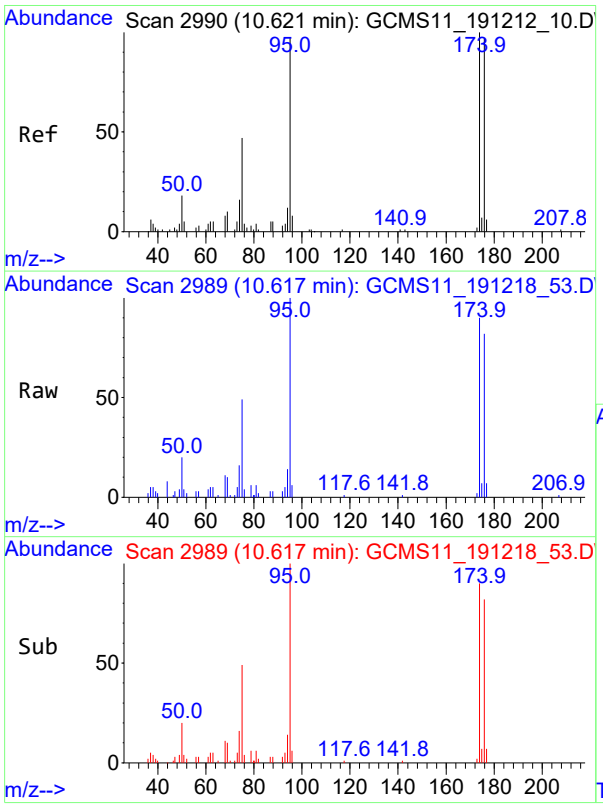


#50
m+p-Xylene
Concen: 2.13 ng
RT: 9.720 min Scan# 2710
Delta R.T. 0.007 min
Lab File: GCMS11_191218_53.D
Acq: 19 Dec 2019 5:52 pm

Tgt Ion:106 Resp: 1113

Ion	Ratio	Lower	Upper
106	100		
91	206.6	160.8	220.8
77	29.4	0.0	54.6

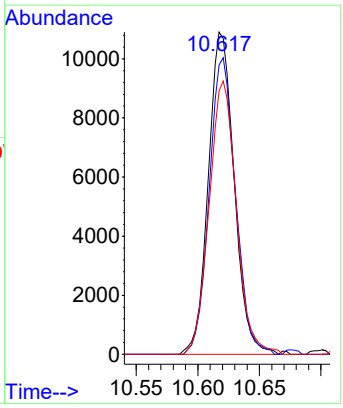


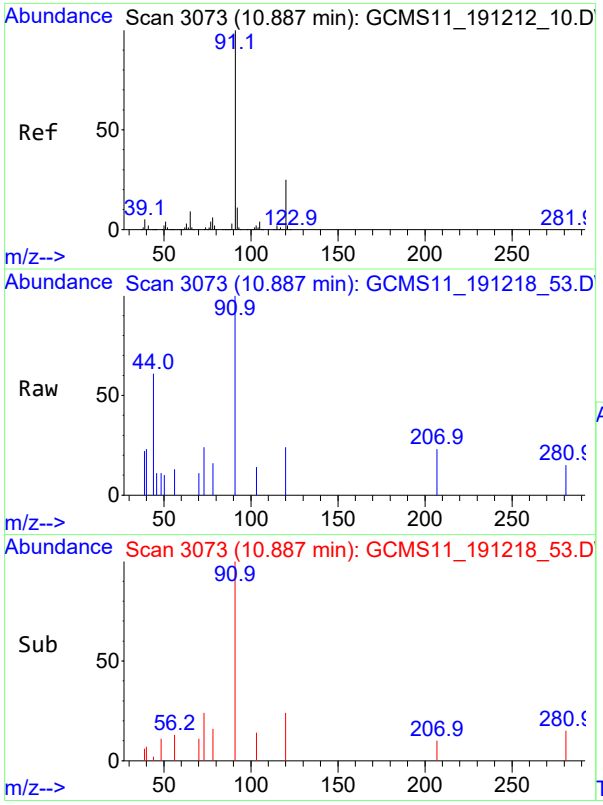


#55
4-BROMOFLUOROBENZENE
Concen: 47.20 ng
RT: 10.617 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191218_53.D
Acq: 19 Dec 2019 5:52 pm

Tgt Ion: 95 Resp: 15974

Ion	Ratio	Lower	Upper
95	100		
174	93.1	68.5	128.5
176	89.3	66.8	126.8

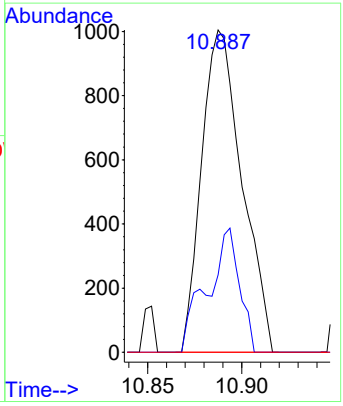


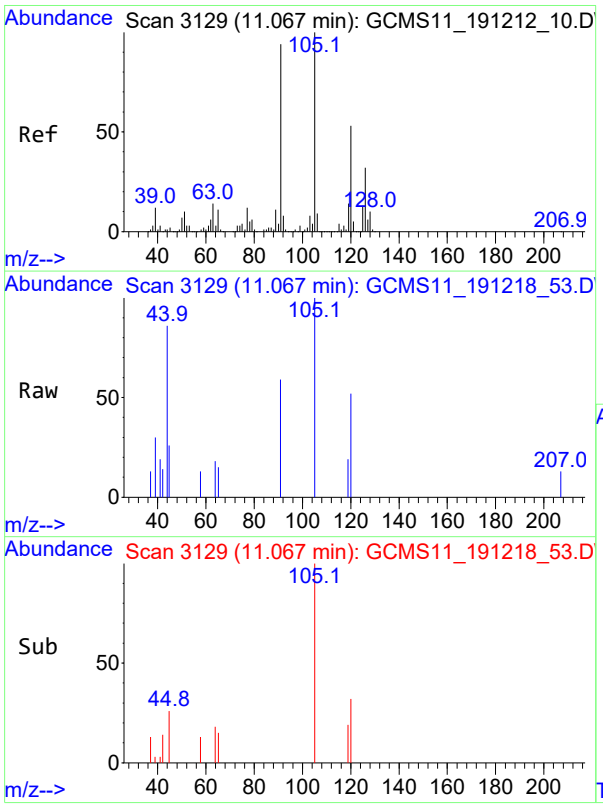


#58
n-Propylbenzene
Concen: 1.00 ng
RT: 10.887 min Scan# 3073
Delta R.T. 0.000 min
Lab File: GCMS11_191218_53.D
Acq: 19 Dec 2019 5:52 pm

Tgt Ion: 91 Resp: 1502

Ion	Ratio	Lower	Upper
91	100		
120	19.8	0.0	55.0
121	0.0	0.0	32.4

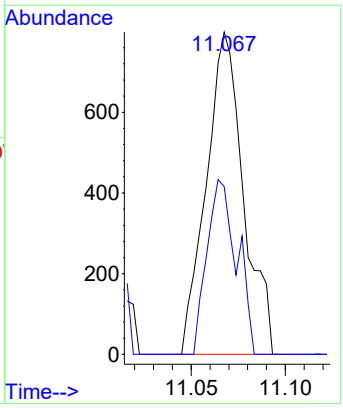


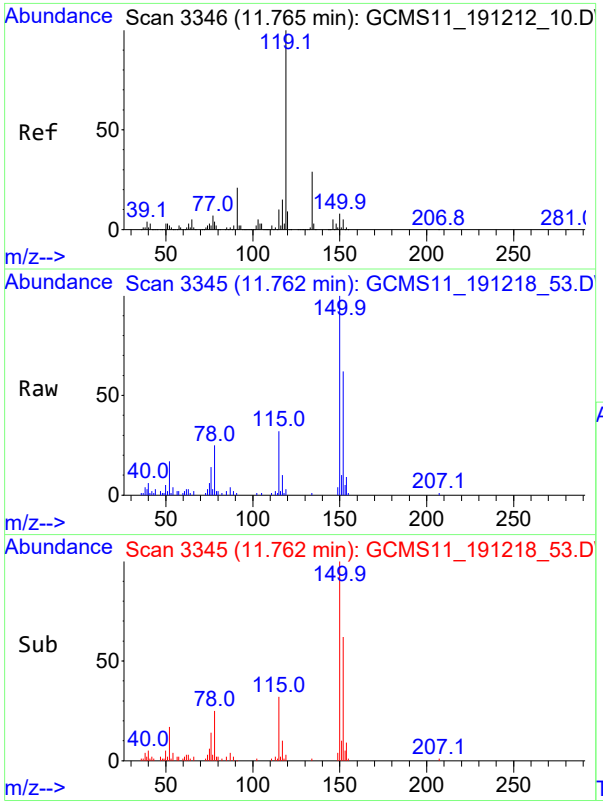


#60
1,3,5-Trimethylbenzene
Concen: 1.01 ng
RT: 11.067 min Scan# 3129
Delta R.T. -0.003 min
Lab File: GCMS11_191218_53.D
Acq: 19 Dec 2019 5:52 pm

Tgt Ion:105 Resp: 1102

Ion	Ratio	Lower	Upper
105	100		
120	43.6	22.4	82.4

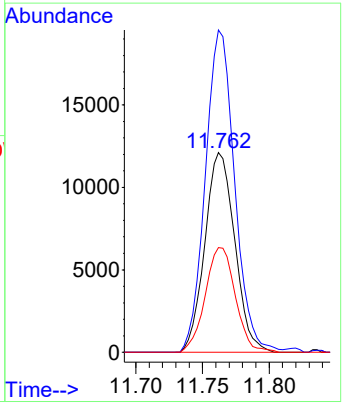


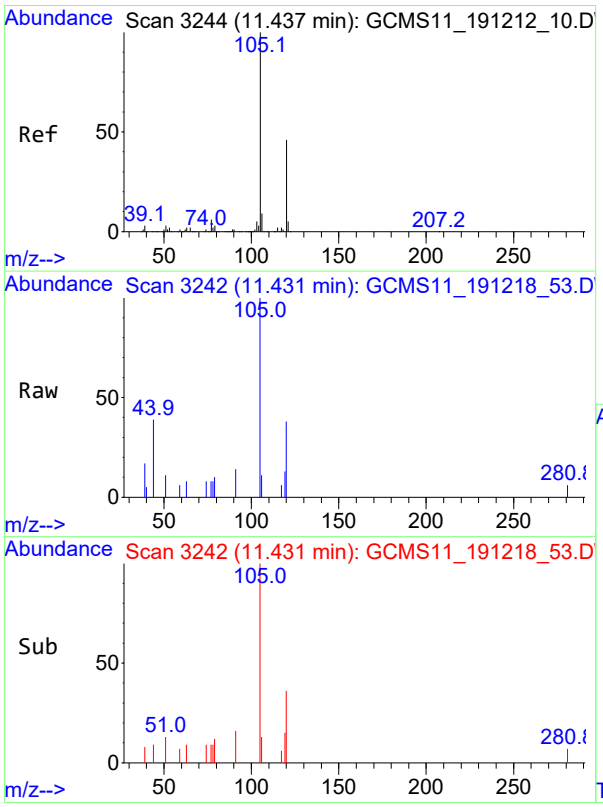


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.762 min Scan# 3345
Delta R.T. -0.003 min
Lab File: GCMS11_191218_53.D
Acq: 19 Dec 2019 5:52 pm

Tgt Ion:152 Resp: 18903

Ion	Ratio	Lower	Upper
152	100		
150	158.0	162.5	222.5#
115	52.9	82.3	142.3#

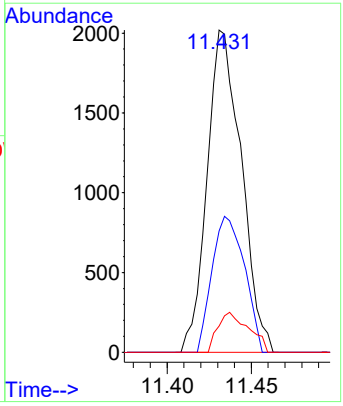


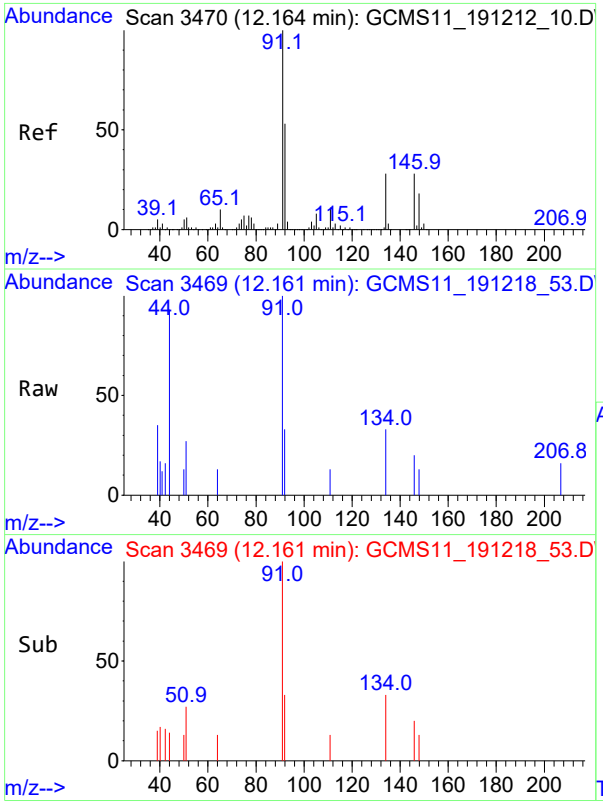


#65
1,2,4-Trimethylbenzene
Concen: 2.80 ng
RT: 11.431 min Scan# 3242
Delta R.T. -0.006 min
Lab File: GCMS11_191218_53.D
Acq: 19 Dec 2019 5:52 pm

Tgt Ion:105 Resp: 2860

Ion	Ratio	Lower	Upper
105	100		
120	40.1	18.6	78.6
77	11.2	0.0	41.4

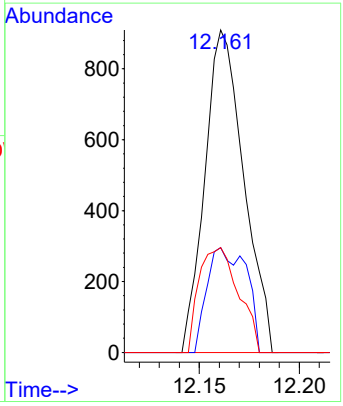


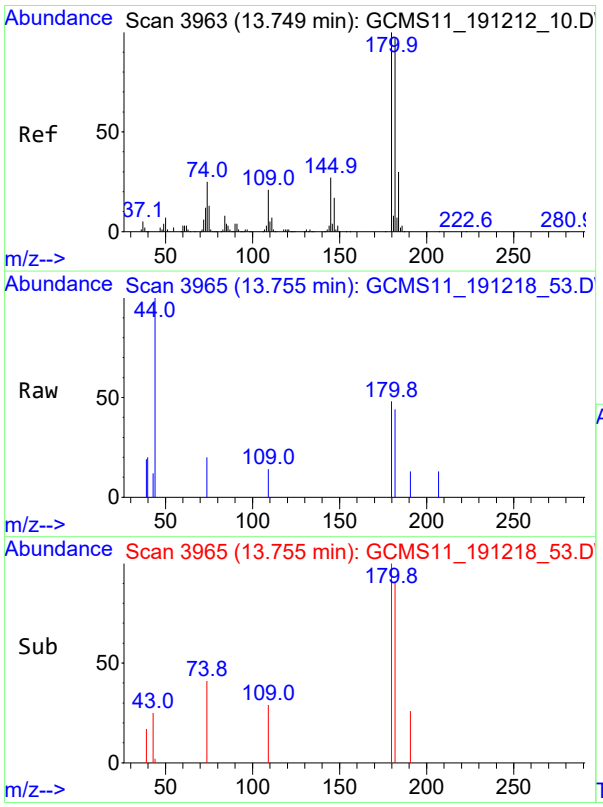


#71
n-Butylbenzene
Concen: 1.26 ng
RT: 12.161 min Scan# 3469
Delta R.T. 0.000 min
Lab File: GCMS11_191218_53.D
Acq: 19 Dec 2019 5:52 pm

Tgt Ion: 91 Resp: 1230

Ion	Ratio	Lower	Upper
91	100		
92	32.8	22.0	82.0
134	32.8	0.0	58.4

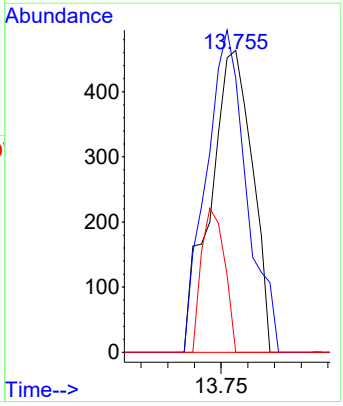




#73
1,2,4-Trichlorobenzene
Concen: 1.19 ng
RT: 13.755 min Scan# 3965
Delta R.T. 0.007 min
Lab File: GCMS11_191218_53.D
Acq: 19 Dec 2019 5:52 pm

Tgt Ion:180 Resp: 507

Ion	Ratio	Lower	Upper
180	100		
182	102.4	66.7	126.7
145	26.4	0.0	58.2



Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_54.D
Acq On : 19 Dec 2019 6:21 pm
Operator : ko
Sample : B19L026-BLK2
Misc : LIMS 19L1101
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Dec 20 09:51:54 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

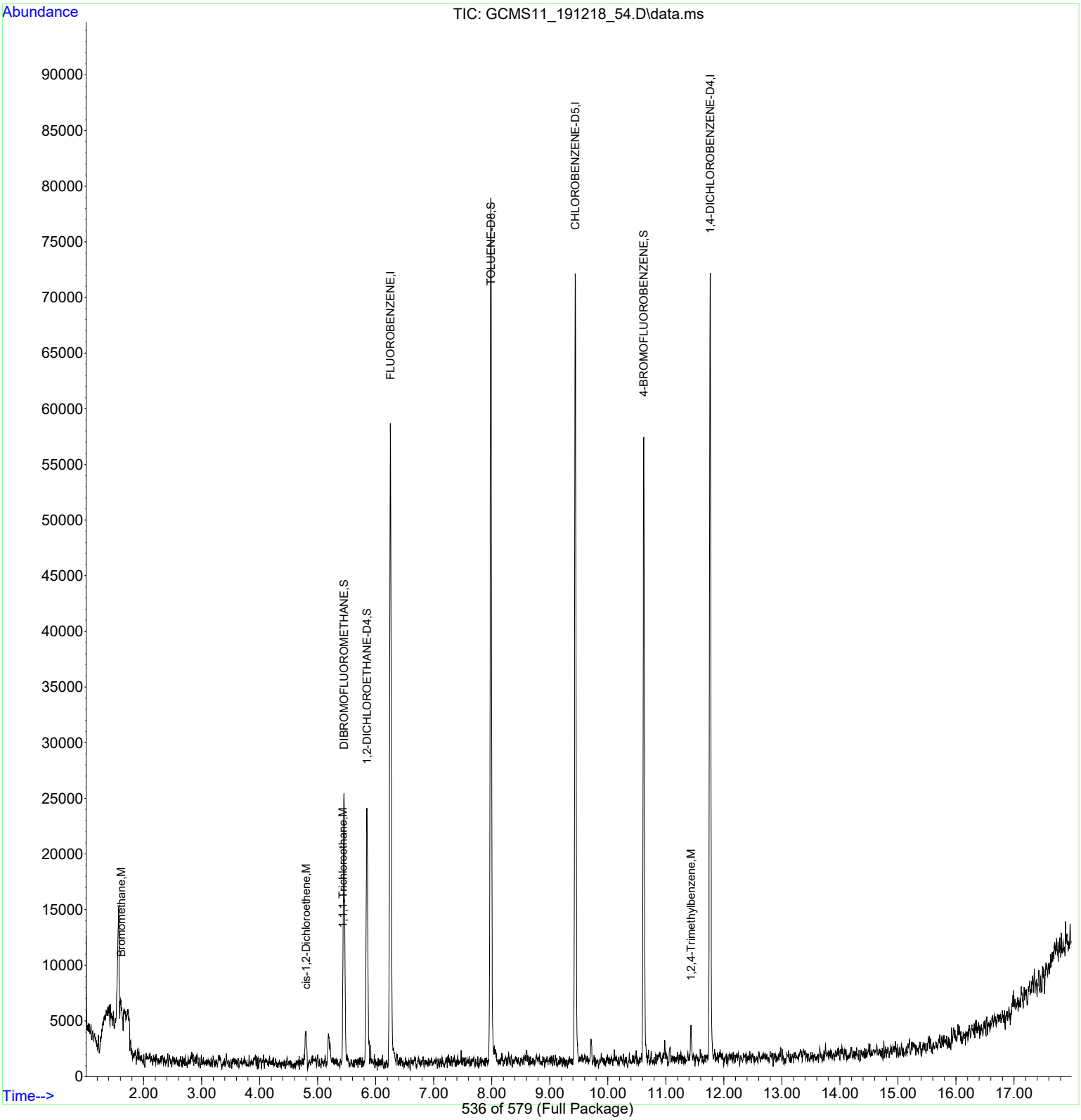
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) FLUOROBENZENE	6.254	96	51338	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.437	82	20243	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.762	152	17854	50.00	ng	#	0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.454	113	13772	51.08	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.849	65	15872	49.39	ng		0.00
37) TOLUENE-D8	7.984	98	50341	49.86	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.617	95	16013	43.63	ng		0.00
Target Compounds							Qvalue
5) Bromomethane	1.611	96	469	2.03	ng		95
18) cis-1,2-Dichloroethene	4.801	96	1225	3.78	ng		87
23) 1,1,1-Trichloroethane	5.434	97	1136m	2.53	ng		
65) 1,2,4-Trimethylbenzene	11.434	105	1762	1.83	ng	#	79

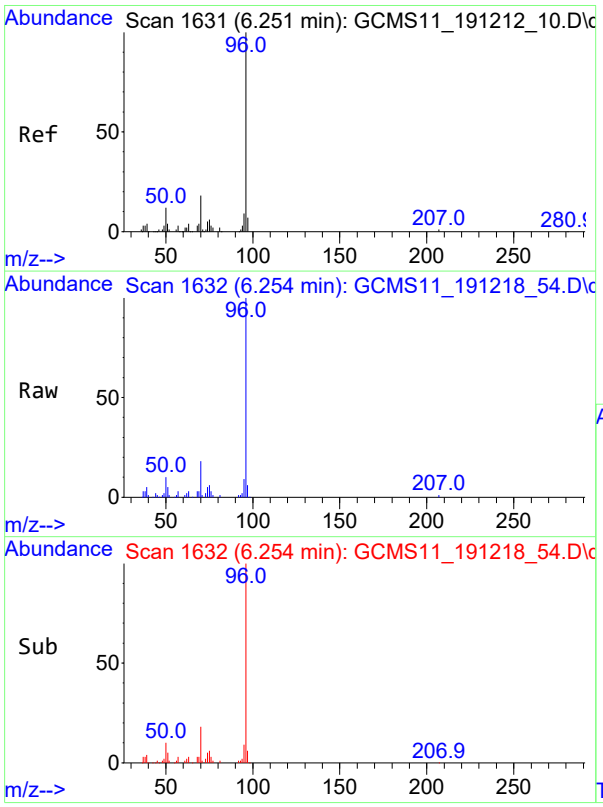
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_54.D
Acq On : 19 Dec 2019 6:21 pm
Operator : ko
Sample : B19L026-BLK2
Misc : LIMS 19L1101
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Dec 20 09:51:54 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

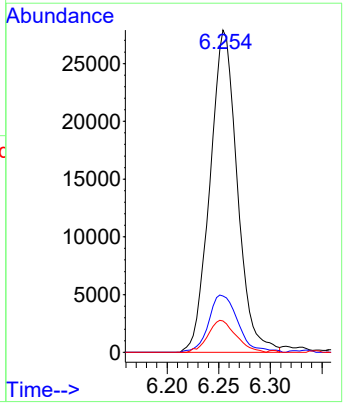


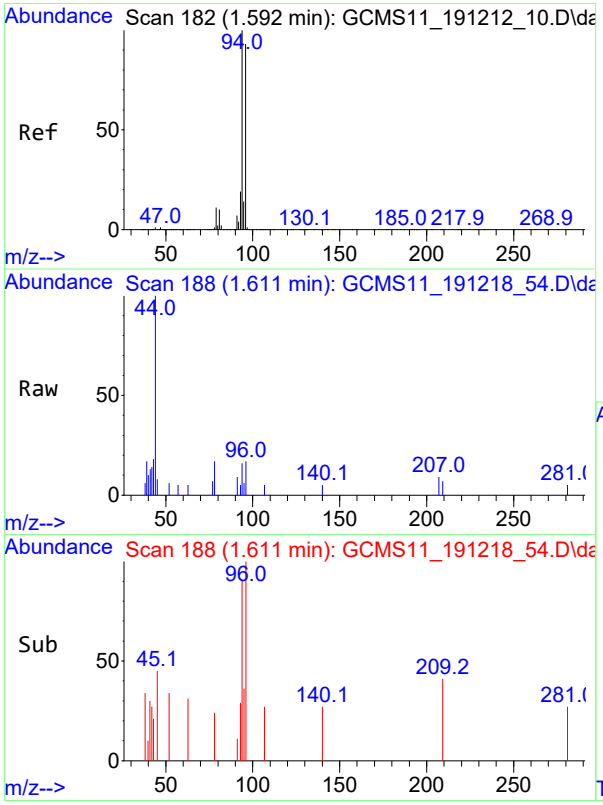


#1
FLUOROBENZENE
Concen: 50.00 ng
RT: 6.254 min Scan# 1632
Delta R.T. -0.003 min
Lab File: GCMS11_191218_54.D
Acq: 19 Dec 2019 6:21 pm

Tgt Ion: 96 Resp: 51338

Ion	Ratio	Lower	Upper
96	100		
70	19.2	0.0	48.3
50	10.2	0.0	39.5

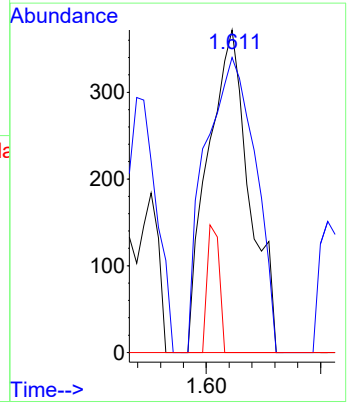


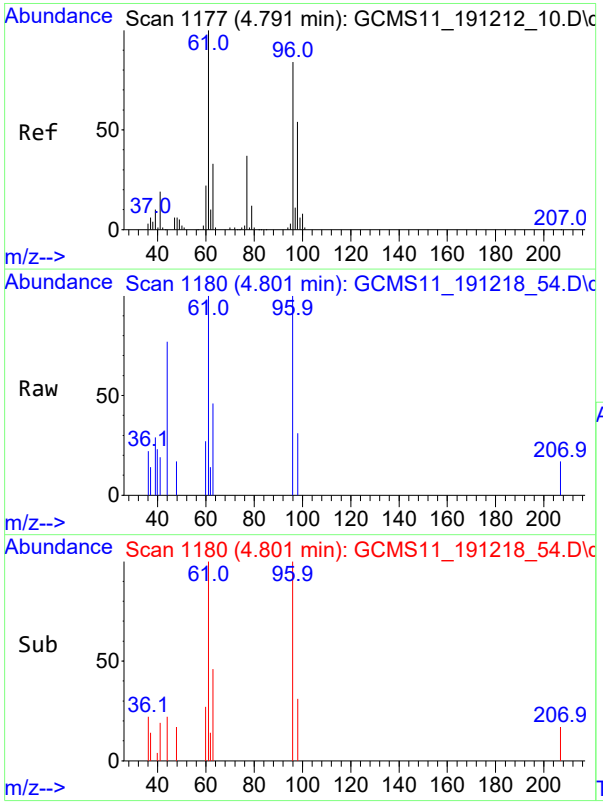


#5
Bromomethane
Concen: 2.03 ng
RT: 1.611 min Scan# 188
Delta R.T. 0.007 min
Lab File: GCMS11_191218_54.D
Acq: 19 Dec 2019 6:21 pm

Tgt Ion: 96 Resp: 469

Ion	Ratio	Lower	Upper
96	100		
94	110.7	74.8	134.8
81	11.5	0.0	42.0

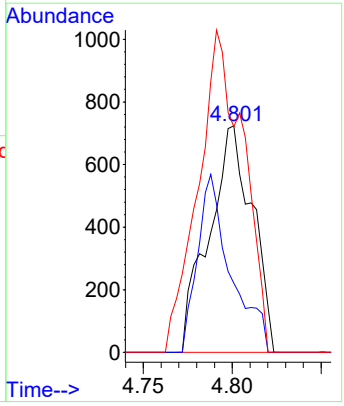


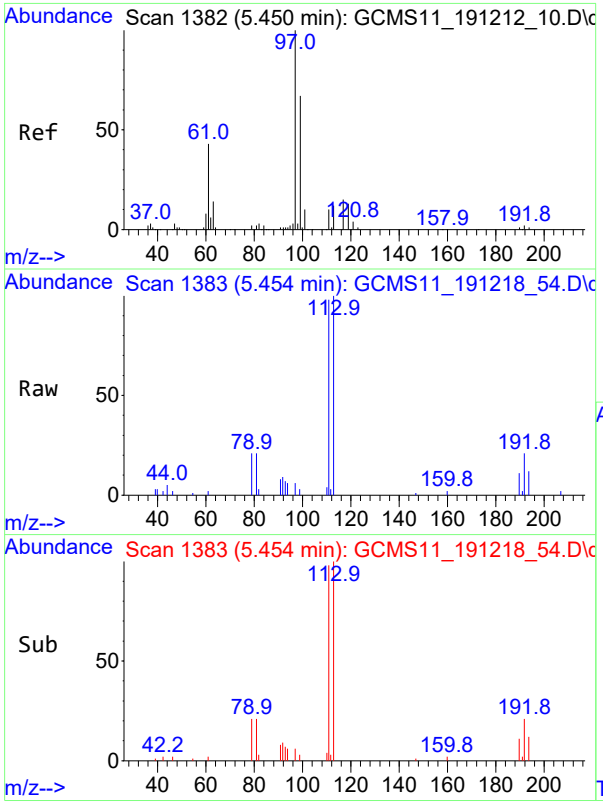


#18
cis-1,2-Dichloroethene
Concen: 3.78 ng
RT: 4.801 min Scan# 1180
Delta R.T. 0.000 min
Lab File: GCMS11_191218_54.D
Acq: 19 Dec 2019 6:21 pm

Tgt Ion: 96 Resp: 1225

Ion	Ratio	Lower	Upper
96	100		
98	60.2	30.6	90.6
61	148.2	96.6	156.6

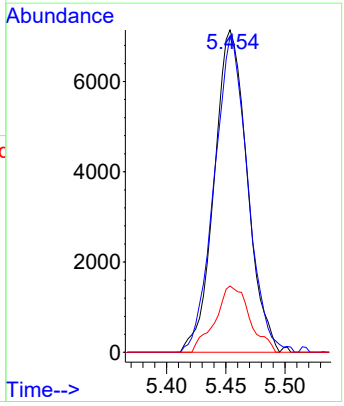


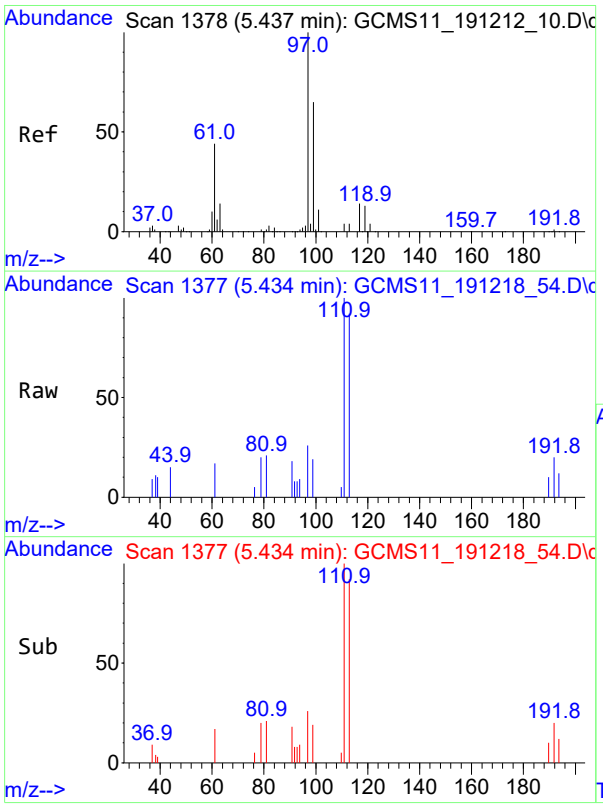


#22
DIBROMOFLUOROMETHANE
Concen: 51.08 ng
RT: 5.454 min Scan# 1383
Delta R.T. -0.006 min
Lab File: GCMS11_191218_54.D
Acq: 19 Dec 2019 6:21 pm

Tgt Ion:113 Resp: 13772

Ion	Ratio	Lower	Upper
113	100		
111	99.9	75.2	135.2
192	21.5	0.0	52.1

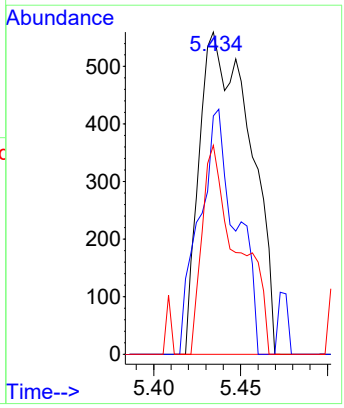




#23
1,1,1-Trichloroethane
Concen: 2.53 ng m
RT: 5.434 min Scan# 1377
Delta R.T. -0.009 min
Lab File: GCMS11_191218_54.D
Acq: 19 Dec 2019 6:21 pm

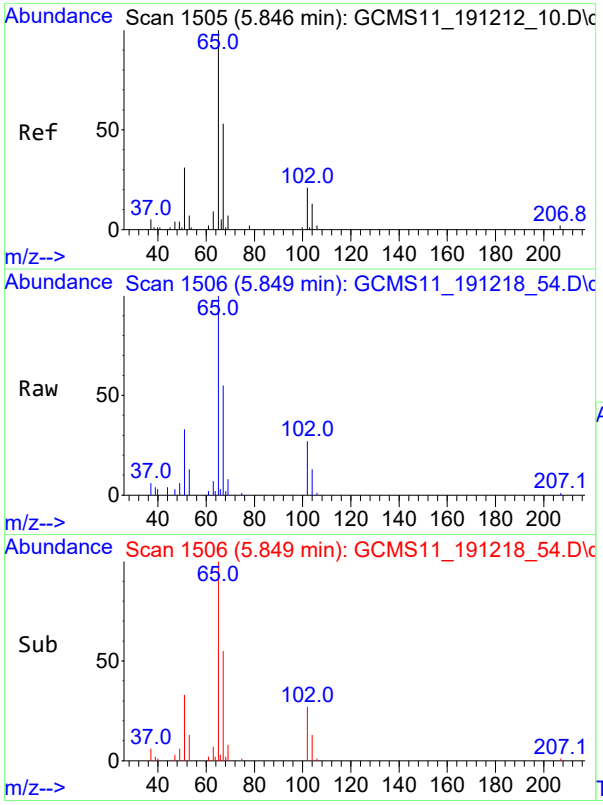
Tgt Ion: 97 Resp: 1136

Ion	Ratio	Lower	Upper
97	100		
99	55.5	32.7	92.7
61	45.9	13.1	73.1



IS -KO 01.15.19

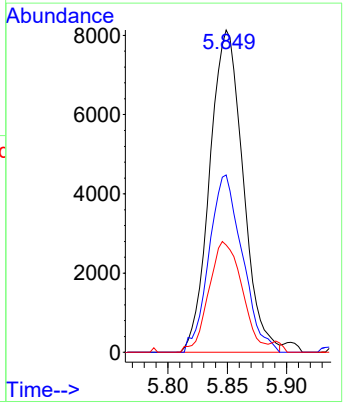
For manual integration reason codes see SOP GEN029 v.3

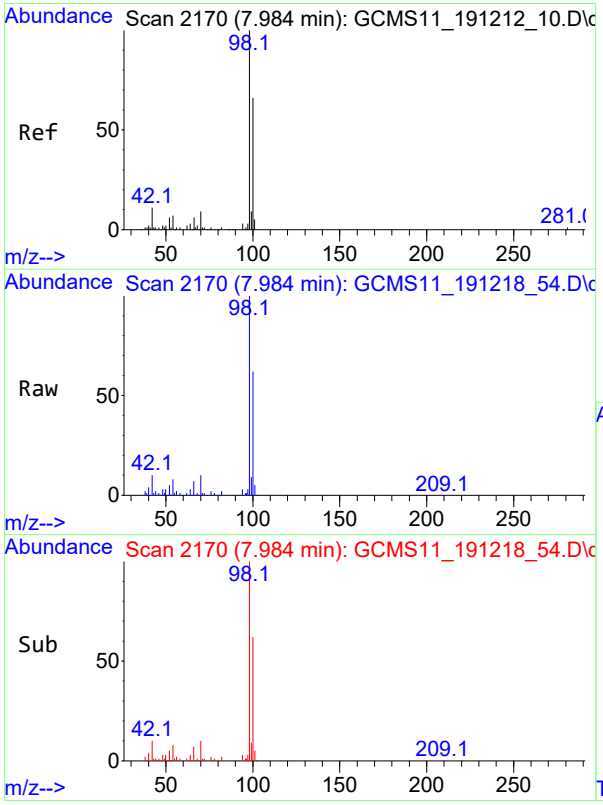


#26
1,2-DICHLOROETHANE-D4
Concen: 49.39 ng
RT: 5.849 min Scan# 1506
Delta R.T. -0.003 min
Lab File: GCMS11_191218_54.D
Acq: 19 Dec 2019 6:21 pm

Tgt Ion: 65 Resp: 15872

Ion	Ratio	Lower	Upper
65	100		
67	55.3	15.4	75.4
51	34.5	2.7	62.7

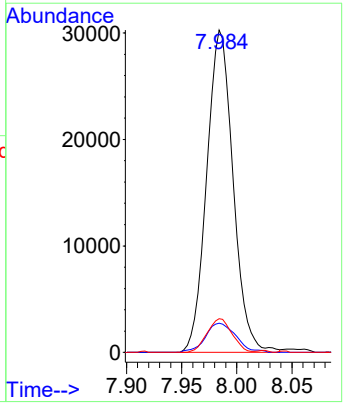


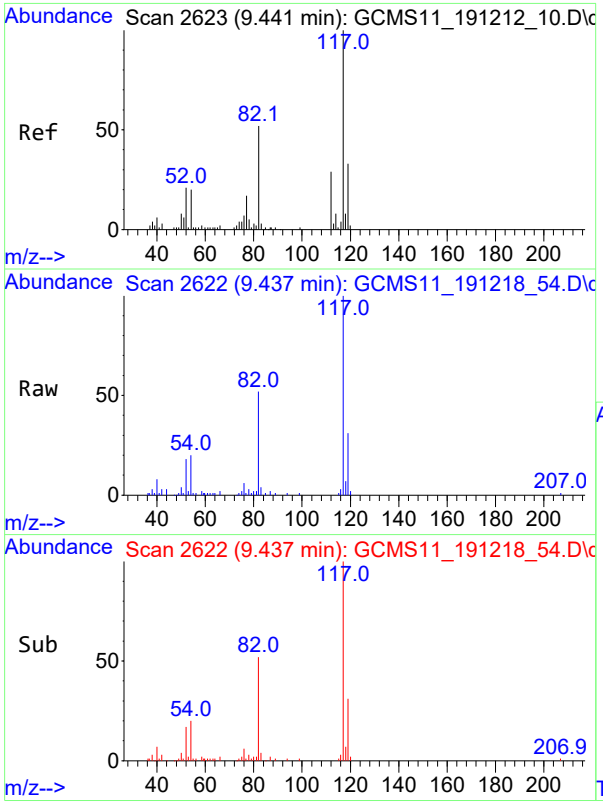


#37
TOLUENE-D8
Concen: 49.86 ng
RT: 7.984 min Scan# 2170
Delta R.T. 0.000 min
Lab File: GCMS11_191218_54.D
Acq: 19 Dec 2019 6:21 pm

Tgt Ion: 98 Resp: 50341

Ion	Ratio	Lower	Upper
98	100		
99	10.5	0.0	39.8
70	10.0	0.0	40.7

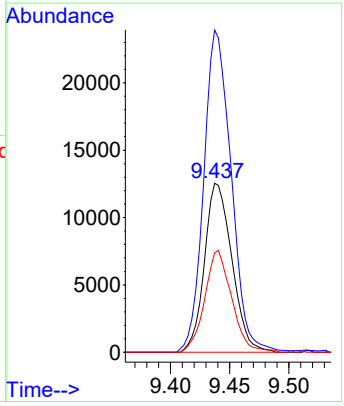


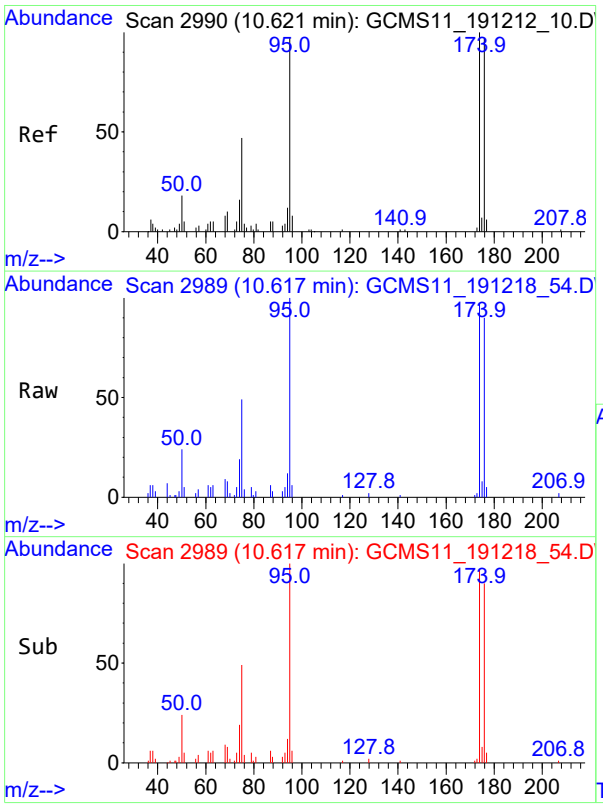


#39
CHLOROBENZENE-D5
Concen: 50.00 ng
RT: 9.437 min Scan# 2622
Delta R.T. -0.003 min
Lab File: GCMS11_191218_54.D
Acq: 19 Dec 2019 6:21 pm

Tgt Ion: 82 Resp: 20243

Ion	Ratio	Lower	Upper
82	100		
117	190.7	160.7	220.7
119	59.1	33.5	93.5

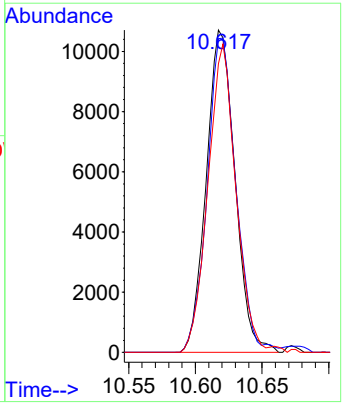


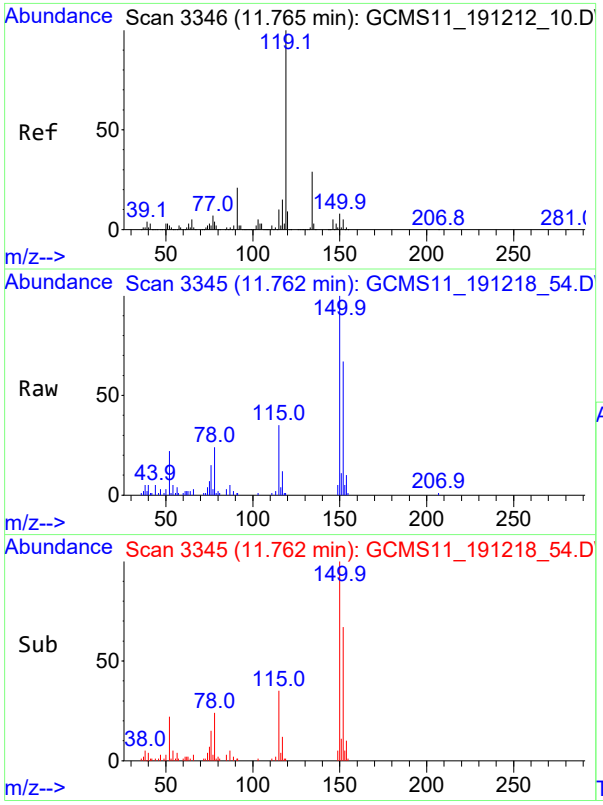


#55
4-BROMOFLUOROBENZENE
Concen: 43.63 ng
RT: 10.617 min Scan# 2989
Delta R.T. -0.003 min
Lab File: GCMS11_191218_54.D
Acq: 19 Dec 2019 6:21 pm

Tgt Ion: 95 Resp: 16013

Ion	Ratio	Lower	Upper
95	100		
174	97.7	68.5	128.5
176	93.2	66.8	126.8

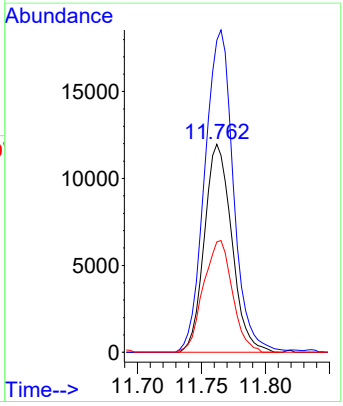


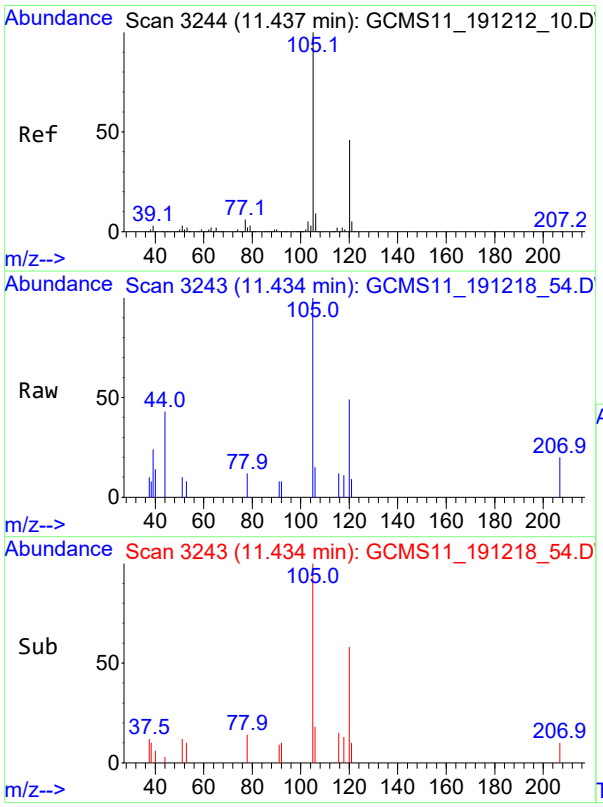


#62
1,4-DICHLOROBENZENE-D4
Concen: 50.00 ng
RT: 11.762 min Scan# 3345
Delta R.T. -0.003 min
Lab File: GCMS11_191218_54.D
Acq: 19 Dec 2019 6:21 pm

Tgt Ion:152 Resp: 17854

Ion	Ratio	Lower	Upper
152	100		
150	162.2	162.5	222.5#
115	56.8	82.3	142.3#

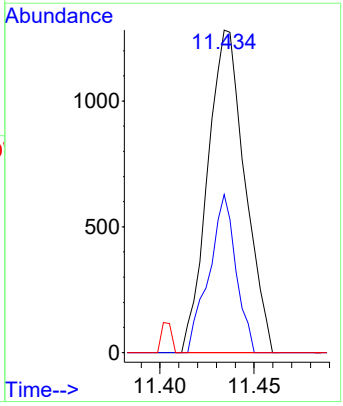




#65
1,2,4-Trimethylbenzene
Concen: 1.83 ng
RT: 11.434 min Scan# 3243
Delta R.T. -0.003 min
Lab File: GCMS11_191218_54.D
Acq: 19 Dec 2019 6:21 pm

Tgt Ion:105 Resp: 1762

Ion	Ratio	Lower	Upper
105	100		
120	35.5	18.6	78.6
77	0.0	0.0	41.4



Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_52.D
Acq On : 19 Dec 2019 10:08 pm
Operator : ko
Sample : B19L026-BS1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Dec 20 07:23:20 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	51833	50.00	ng	0.00
39) CHLOROBENZENE-D5	9.441	82	19519	50.00	ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.765	152	22251	50.00	ng	0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.460	113	14745	54.16	ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.849	65	16014	49.36	ng	0.00
37) TOLUENE-D8	7.984	98	51056	50.08	ng	0.00
55) 4-BROMOFLUOROBENZENE	10.617	95	17998	50.86	ng	0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.126	85	24122	100.08	ng	98
3) Chloromethane	1.264	50	23550	106.95	ng	94
4) Vinyl chloride	1.351	62	31693	113.55	ng	98
5) Bromomethane	1.605	96	17856	76.66	ng	99
6) Chloroethane	1.701	64	21304	104.41	ng	97
7) Trichlorofluoromethane	1.926	101	41465	115.19	ng	95
9) 1,1-Dichloroethene	2.422	96	29926	111.09	ng	96
12) Methylene chloride	2.971	84	37158	114.07	ng	98
14) trans-1,2-Dichloroethene	3.319	96	32821	108.22	ng	98
16) 1,1-Dichloroethane	3.920	63	60316	120.43	ng	98
17) 2,2-Dichloropropane	4.778	77	41917	101.27	ng	95
18) cis-1,2-Dichloroethene	4.798	96	37528	114.65	ng	98
20) Bromochloromethane	5.113	128	21561	121.19	ng	95
21) Chloroform	5.254	83	59080	118.33	ng	97
23) 1,1,1-Trichloroethane	5.444	97	50146	110.41	ng	97
24) Carbon tetrachloride	5.650	117	45191	110.74	ng	98
25) 1,1-Dichloropropene	5.663	75	38749	104.64	ng	97
27) Benzene	5.904	78	140118	111.52	ng	93
28) 1,2-Dichloroethane	5.942	62	48155	114.04	ng	97
29) Trichloroethene	6.672	95	32479	109.54	ng	96
30) 1,2-Dichloropropane	6.917	63	31248	112.16	ng	98
31) Dibromomethane	7.039	93	25320	111.64	ng	95
33) Bromodichloromethane	7.238	83	47321	120.34	ng	99
35) cis-1,3-Dichloropropene	7.720	75	47948	110.04	ng	99
38) Toluene	8.052	92	74532	106.04	ng	97
40) trans-1,3-Dichloropropene	8.306	75	44980	105.69	ng	98
41) 1,1,2-Trichloroethane	8.482	83	28439	116.21	ng	97
42) Tetrachloroethene	8.605	164	26354	107.26	ng	96
43) 1,3-Dichloropropane	8.646	76	55912	117.95	ng	97
45) Dibromochloromethane	8.865	129	38816	106.85	ng	99
46) 1,2-Dibromoethane (EDB)	8.961	107	34722	111.90	ng	99
47) Chlorobenzene	9.469	112	93685	111.74	ng	98
48) 1,1,1,2-Tetrachloroethane	9.559	131	36464	112.93	ng	99
49) Ethylbenzene	9.595	106	46421	107.44	ng	96
50) m+p-Xylene	9.714	106	118547	216.86	ng	98
51) o-Xylene	10.103	106	57665	109.19	ng	97
52) Styrene	10.119	103	54838	109.78	ng	97
53) Bromoform	10.286	173	26916	102.34	ng	94
54) Isopropylbenzene	10.479	105	148213	106.31	ng	97
56) Bromobenzene	10.756	156	42116	115.05	ng	95
57) 1,2,3-Trichloropropane	10.813	75	34127	106.41	ng	95

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_52.D
Acq On : 19 Dec 2019 10:08 pm
Operator : ko
Sample : B19L026-BS1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Dec 20 07:23:20 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

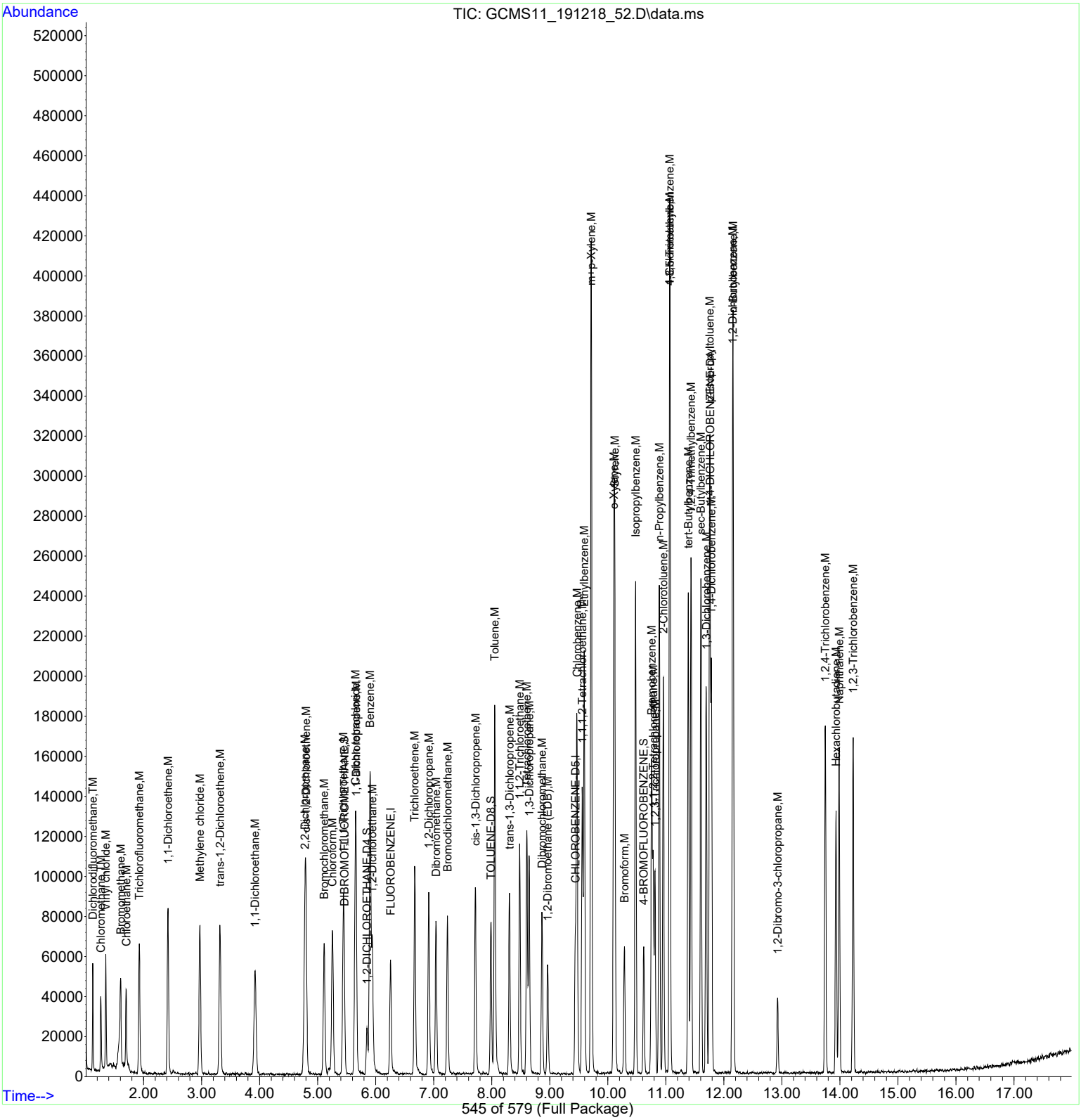
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) n-Propylbenzene	10.887	91	175708	112.06	ng		99
59) 2-Chlorotoluene	10.958	91	103424	112.87	ng		100
60) 1,3,5-Trimethylbenzene	11.067	105	120776	106.36	ng		97
61) 4-Chlorotoluene	11.067	91	120111	112.36	ng		100
63) 1,1,2,2-Tetrachloroethane	10.781	83	45724	114.50	ng		97
64) tert-Butylbenzene	11.386	119	109895	111.92	ng		100
65) 1,2,4-Trimethylbenzene	11.434	105	130432	108.62	ng		100
66) sec-Butylbenzene	11.604	105	157569	106.94	ng		99
67) 1,3-Dichlorobenzene	11.698	146	77882	113.36	ng		96
68) p-Isopropyltoluene	11.756	119	133558	103.52	ng		100
69) 1,4-Dichlorobenzene	11.784	146	79136	113.16	ng		97
70) 1,2-Dichlorobenzene	12.151	146	83856	112.88	ng		99
71) n-Butylbenzene	12.161	91	124057	108.15	ng		97
72) 1,2-Dibromo-3-chloropr...	12.926	155	7397	96.97	ng		92
73) 1,2,4-Trichlorobenzene	13.749	180	53296	106.37	ng		100
74) Hexachlorobutadiene	13.932	225	23418	100.31	ng	#	1
75) Naphthalene	13.987	128	122658	95.60	ng		100
76) 1,2,3-Trichlorobenzene	14.228	180	50870	98.21	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\191218\
Data File : GCMS11_191218_52.D
Acq On : 19 Dec 2019 10:08 pm
Operator : ko
Sample : B19L026-BS1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Dec 20 07:23:20 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 : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_52.D
Acq On : 19 Dec 2019 10:08 pm
Operator : ko
Sample : B19L026-BS1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Dec 20 07:23:20 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	72	0.00
2	TM	Dichlorodifluoromethane	125.000	100.079	19.9	53	0.00
3	TM	Chloromethane	125.000	106.952	14.4	59	0.00
4	M	Vinyl chloride	125.000	113.552	9.2	61	0.00
5	M	Bromomethane	125.000	76.664	38.7#	44	0.00
6	M	Chloroethane	125.000	104.412	16.5	58	0.00
7	M	Trichlorofluoromethane	125.000	115.189	7.8	64	0.00
8	M	Acrolein	625.000	0.000	100.0#	0	0.00
9	M	1,1-Dichloroethene	125.000	111.086	11.1	66	0.00
10	M	Acetone	625.000	0.000	100.0#	0	0.02
11	M	Carbon disulfide	125.000	0.000	100.0#	0	-2.62#
12	M	Methylene chloride	125.000	114.068	8.7	70	0.00
13	M	Acrylonitrile	625.000	0.000	100.0#	0	-0.04
14	M	trans-1,2-Dichloroethene	125.000	108.222	13.4	66	0.00
15	M	Methyl tert-butyl ether	125.000	0.000	100.0#	0	0.04
16	M	1,1-Dichloroethane	125.000	120.434	3.7	70	0.00
17	M	2,2-Dichloropropane	125.000	101.273	19.0	58	0.00
18	M	cis-1,2-Dichloroethene	125.000	114.651	8.3	66	0.00
19	M	2-Butanone	625.000	0.000	100.0#	0	-0.03
20	M	Bromochloromethane	125.000	121.190	3.0	71	0.00
21	M	Chloroform	125.000	118.334	5.3	68	0.00
22	S	DIBROMOFLUOROMETHANE	50.000	54.165	-8.3	78	0.00
23	M	1,1,1-Trichloroethane	125.000	110.411	11.7	64	0.00
24	M	Carbon tetrachloride	125.000	110.744	11.4	66	0.00
25	M	1,1-Dichloropropene	125.000	104.640	16.3	63	0.00
26	S	1,2-DICHLOROETHANE-D4	50.000	49.360	1.3	70	0.00
27	M	Benzene	125.000	111.521	10.8	66	0.00
28	M	1,2-Dichloroethane	125.000	114.039	8.8	68	0.00
29	M	Trichloroethene	125.000	109.542	12.4	66	0.00
30	M	1,2-Dichloropropane	125.000	112.162	10.3	67	0.00
31	M	Dibromomethane	125.000	111.643	10.7	67	0.00
32	M	1,4-Dioxane	750.000	0.000	100.0#	0	-7.20#
33	M	Bromodichloromethane	125.000	120.344	3.7	70	0.00
34	M	2-Chloroethylvinyl ether	125.000	0.000	100.0#	0	0.00
35	M	cis-1,3-Dichloropropene	125.000	110.042	12.0	63	0.00
36	M	4-Methyl-2-pentanone	250.000	0.000	100.0#	0	0.08
37	S	TOLUENE-D8	50.000	50.084	-0.2	73	0.00
38	M	Toluene	125.000	106.042	15.2	65	0.00
39	I	CHLOROBENZENE-D5	50.000	50.000	0.0	71	0.00
40	M	trans-1,3-Dichloropropene	125.000	105.693	15.4	62	0.00
41	M	1,1,2-Trichloroethane	125.000	116.205	7.0	70	0.00
42	M	Tetrachloroethene	125.000	107.256	14.2	61	0.00
43	M	1,3-Dichloropropane	125.000	117.953	5.6	70	0.00
44	M	2-Hexanone	250.000	0.000	100.0#	0	0.00
45	M	Dibromochloromethane	125.000	106.851	14.5	63	0.00
46	M	1,2-Dibromoethane (EDB)	125.000	111.902	10.5	66	0.00
47	M	Chlorobenzene	125.000	111.744	10.6	67	0.00

48	M	1,1,1,2-Tetrachloroethane	125.000	112.933	9.7	69	0.00
49	M	Ethylbenzene	125.000	107.435	14.1	64	0.00
50	M	m+p-Xylene	250.000	216.861	13.3	66	0.00
51	M	o-Xylene	125.000	109.194	12.6	68	0.00
52	M	Styrene	125.000	109.784	12.2	69	0.00
53	M	Bromoform	125.000	102.337	18.1	62	0.00
54	M	Isopropylbenzene	125.000	106.306	15.0	65	0.00
55	S	4-BROMOFLUOROBENZENE	50.000	50.855	-1.7	75	0.00
56	M	Bromobenzene	125.000	115.051	8.0	68	0.00
57	M	1,2,3-Trichloropropane	125.000	106.405	14.9	62	0.00
58	M	n-Propylbenzene	125.000	112.060	10.4	67	0.00
59	M	2-Chlorotoluene	125.000	112.871	9.7	67	0.00
60	M	1,3,5-Trimethylbenzene	125.000	106.357	14.9	65	0.00
61	M	4-Chlorotoluene	125.000	112.360	10.1	68	0.00
62	I	1,4-DICHLOROBENZENE-D4	50.000	50.000	0.0	75	0.00
63	M	1,1,2,2-Tetrachloroethane	125.000	114.502	8.4	68	0.00
64	M	tert-Butylbenzene	125.000	111.924	10.5	64	0.00
65	M	1,2,4-Trimethylbenzene	125.000	108.621	13.1	67	0.00
66	M	sec-Butylbenzene	125.000	106.936	14.5	63	0.00
67	M	1,3-Dichlorobenzene	125.000	113.359	9.3	70	0.00
68	M	p-Isopropyltoluene	125.000	103.523	17.2	63	0.00
69	M	1,4-Dichlorobenzene	125.000	113.156	9.5	67	0.00
70	M	1,2-Dichlorobenzene	125.000	112.884	9.7	70	0.00
71	M	n-Butylbenzene	125.000	108.145	13.5	66	0.00
72	M	1,2-Dibromo-3-chloropropane	125.000	96.975	22.4	61	0.00
73	M	1,2,4-Trichlorobenzene	125.000	106.374	14.9	64	0.00
74	M	Hexachlorobutadiene	125.000	100.310	19.8	56	0.00
75	M	Naphthalene	125.000	95.600	23.5	58	0.00
76	M	1,2,3-Trichlorobenzene	125.000	98.205	21.4	65	0.00

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

GCMS11_1912..._FULL LIST.M Mon Jan 06 07:59:25 2020

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_82.D
Acq On : 20 Dec 2019 8:03 am
Operator : ko
Sample : B19L026-BSD1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 20 13:02:41 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	53619	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.441	82	19196	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.762	152	21650	50.00	ng		0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.454	113	14129	50.17	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.846	65	15347	45.73	ng		0.00
37) TOLUENE-D8	7.984	98	49559	47.00	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.617	95	18336	52.68	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.119	85	23175	92.95	ng		98
3) Chloromethane	1.258	50	23814	104.55	ng		98
4) Vinyl chloride	1.344	62	32201	111.53	ng		97
5) Bromomethane	1.602	96	19066	79.13	ng		97
6) Chloroethane	1.695	64	22431	106.27	ng		98
7) Trichlorofluoromethane	1.920	101	41136	110.47	ng		97
9) 1,1-Dichloroethene	2.415	96	28315	101.60	ng		94
12) Methylene chloride	2.965	84	36173	107.35	ng		97
14) trans-1,2-Dichloroethene	3.312	96	33438	106.58	ng		96
16) 1,1-Dichloroethane	3.913	63	59574	114.99	ng		98
17) 2,2-Dichloropropane	4.778	77	32328	75.50	ng		80
18) cis-1,2-Dichloroethene	4.791	96	39235	115.87	ng		98
20) Bromochloromethane	5.106	128	21274	115.59	ng		93
21) Chloroform	5.251	83	60721	117.57	ng		99
23) 1,1,1-Trichloroethane	5.441	97	48116	102.41	ng		95
24) Carbon tetrachloride	5.647	117	40339	95.56	ng		98
25) 1,1-Dichloropropene	5.659	75	38020	99.25	ng		95
27) Benzene	5.904	78	143654	110.53	ng		99
28) 1,2-Dichloroethane	5.939	62	48934	112.02	ng		97
29) Trichloroethene	6.672	95	34594	112.79	ng		90
30) 1,2-Dichloropropane	6.913	63	32631	113.22	ng		99
31) Dibromomethane	7.039	93	26691	113.77	ng		96
33) Bromodichloromethane	7.235	83	47464	116.69	ng		100
35) cis-1,3-Dichloropropene	7.717	75	47613	105.63	ng		98
38) Toluene	8.052	92	74700	102.74	ng		98
40) trans-1,3-Dichloropropene	8.306	75	44249	105.72	ng		99
41) 1,1,2-Trichloroethane	8.482	83	29749	123.60	ng		98
42) Tetrachloroethene	8.605	164	25021	103.54	ng		96
43) 1,3-Dichloropropane	8.643	76	57587	123.53	ng		98
45) Dibromochloromethane	8.865	129	40636	113.74	ng		99
46) 1,2-Dibromoethane (EDB)	8.965	107	34975	114.61	ng		96
47) Chlorobenzene	9.470	112	92064	111.66	ng		97
48) 1,1,1,2-Tetrachloroethane	9.560	131	35875	112.98	ng		96
49) Ethylbenzene	9.595	106	46976	110.55	ng		98
50) m+p-Xylene	9.714	106	117202	218.01	ng		99
51) o-Xylene	10.103	106	55322	106.52	ng		99
52) Styrene	10.119	103	57307	116.66	ng		94
53) Bromoform	10.286	173	27280	105.47	ng	#	96
54) Isopropylbenzene	10.479	105	145565	106.16	ng		97
56) Bromobenzene	10.756	156	43951	122.08	ng		97
57) 1,2,3-Trichloropropane	10.810	75	35359	112.10	ng		98

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_82.D
Acq On : 20 Dec 2019 8:03 am
Operator : ko
Sample : B19L026-BSD1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 20 13:02:41 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

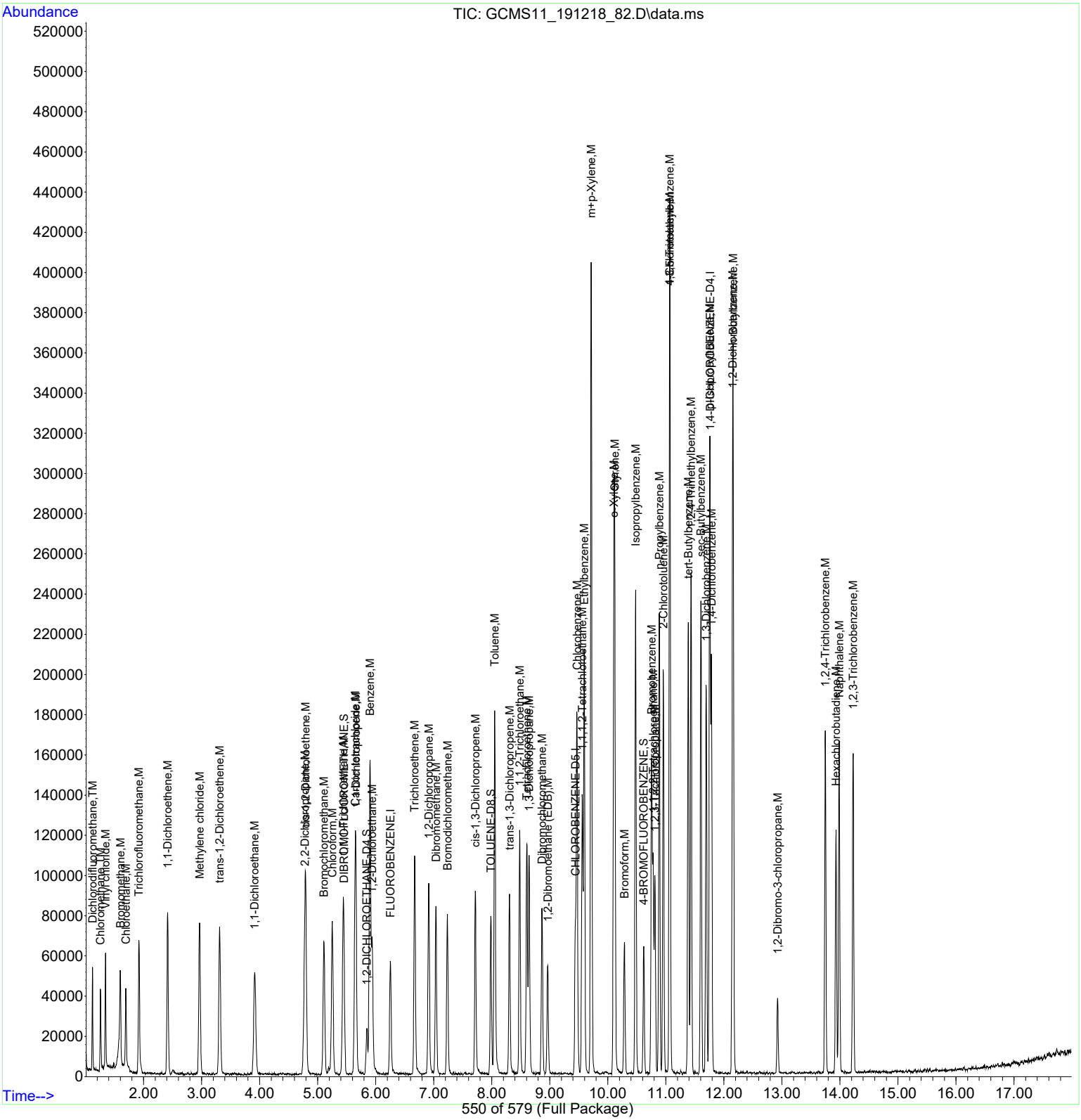
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58)	n-Propylbenzene	10.887	91	165806	107.52	ng		99
59)	2-Chlorotoluene	10.958	91	102593	113.85	ng		99
60)	1,3,5-Trimethylbenzene	11.068	105	116820	104.60	ng		98
61)	4-Chlorotoluene	11.068	91	117956	112.20	ng		100
63)	1,1,2,2-Tetrachloroethane	10.781	83	42603	109.65	ng		98
64)	tert-Butylbenzene	11.386	119	103567	108.41	ng		99
65)	1,2,4-Trimethylbenzene	11.434	105	125463	107.38	ng		99
66)	sec-Butylbenzene	11.604	105	151151	105.43	ng		98
67)	1,3-Dichlorobenzene	11.695	146	78160	116.92	ng		97
68)	p-Isopropyltoluene	11.756	119	129126	102.87	ng		99
69)	1,4-Dichlorobenzene	11.788	146	78298	115.07	ng		97
70)	1,2-Dichlorobenzene	12.151	146	81036	112.12	ng		99
71)	n-Butylbenzene	12.161	91	113836	101.99	ng		99
72)	1,2-Dibromo-3-chloropr...	12.926	155	7252	97.71	ng		95
73)	1,2,4-Trichlorobenzene	13.749	180	52045	106.76	ng		97
74)	Hexachlorobutadiene	13.932	225	22426	98.73	ng	#	1
75)	Naphthalene	13.987	128	126443	101.29	ng		99
76)	1,2,3-Trichlorobenzene	14.228	180	47336	93.81	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\191218\
Data File : GCMS11_191218_82.D
Acq On : 20 Dec 2019 8:03 am
Operator : ko
Sample : B19L026-BSD1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 20 13:02:41 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



Evaluate Continuing Calibration Report

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_82.D
Acq On : 20 Dec 2019 8:03 am
Operator : ko
Sample : B19L026-BSD1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 20 13:02:41 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

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	75	0.00
2	TM	Dichlorodifluoromethane	125.000	92.947	25.6	51	0.00
3	TM	Chloromethane	125.000	104.549	16.4	59	0.00
4	M	Vinyl chloride	125.000	111.529	10.8	62	0.00
5	M	Bromomethane	125.000	79.132	36.7#	46	0.00
6	M	Chloroethane	125.000	106.273	15.0	61	0.00
7	M	Trichlorofluoromethane	125.000	110.468	11.6	63	0.00
8	M	Acrolein	625.000	0.000	100.0#	0	-2.32#
9	M	1,1-Dichloroethene	125.000	101.605	18.7	63	0.00
10	M	Acetone	625.000	0.000	100.0#	0	0.02
11	M	Carbon disulfide	125.000	0.000	100.0#	0	-2.62#
12	M	Methylene chloride	125.000	107.345	14.1	69	0.00
13	M	Acrylonitrile	625.000	0.000	100.0#	0	0.00
14	M	trans-1,2-Dichloroethene	125.000	106.584	14.7	67	0.00
15	M	Methyl tert-butyl ether	125.000	0.000	100.0#	0	0.00
16	M	1,1-Dichloroethane	125.000	114.990	8.0	69	0.00
17	M	2,2-Dichloropropane	125.000	75.504	39.6#	45	0.00
18	M	cis-1,2-Dichloroethene	125.000	115.873	7.3	69	0.00
19	M	2-Butanone	625.000	0.000	100.0#	0	-0.06
20	M	Bromochloromethane	125.000	115.594	7.5	70	0.00
21	M	Chloroform	125.000	117.570	5.9	70	0.00
22	S	DIBROMOFLUOROMETHANE	50.000	50.173	-0.3	75	0.00
23	M	1,1,1-Trichloroethane	125.000	102.412	18.1	62	0.00
24	M	Carbon tetrachloride	125.000	95.561	23.6	59	0.00
25	M	1,1-Dichloropropene	125.000	99.252	20.6	61	0.00
26	S	1,2-DICHLOROETHANE-D4	50.000	45.729	8.5	67	0.00
27	M	Benzene	125.000	110.527	11.6	67	0.00
28	M	1,2-Dichloroethane	125.000	112.024	10.4	69	0.00
29	M	Trichloroethene	125.000	112.788	9.8	70	0.00
30	M	1,2-Dichloropropane	125.000	113.225	9.4	70	0.00
31	M	Dibromomethane	125.000	113.768	9.0	71	0.00
32	M	1,4-Dioxane	750.000	0.000	100.0#	0	-7.20#
33	M	Bromodichloromethane	125.000	116.687	6.7	70	0.00
34	M	2-Chloroethylvinyl ether	125.000	0.000	100.0#	0	0.00
35	M	cis-1,3-Dichloropropene	125.000	105.634	15.5	63	0.00
36	M	4-Methyl-2-pentanone	250.000	0.000	100.0#	0	0.05
37	S	TOLUENE-D8	50.000	46.997	6.0	71	0.00
38	M	Toluene	125.000	102.741	17.8	65	0.00
39	I	CHLOROBENZENE-D5	50.000	50.000	0.0	70	0.00
40	M	trans-1,3-Dichloropropene	125.000	105.725	15.4	61	0.00
41	M	1,1,2-Trichloroethane	125.000	123.604	1.1	73	0.00
42	M	Tetrachloroethene	125.000	103.545	17.2	58	0.00
43	M	1,3-Dichloropropane	125.000	123.531	1.2	72	0.00
44	M	2-Hexanone	250.000	0.000	100.0#	0	-0.05
45	M	Dibromochloromethane	125.000	113.744	9.0	66	0.00
46	M	1,2-Dibromoethane (EDB)	125.000	114.614	8.3	67	0.00
47	M	Chlorobenzene	125.000	111.658	10.7	66	0.00
48	M	1,1,1,2-Tetrachloroethane	125.000	112.978	9.6	68	0.00

Evaluate Continuing Calibration Report

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_82.D
Acq On : 20 Dec 2019 8:03 am
Operator : ko
Sample : B19L026-BSD1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 20 13:02:41 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

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)
49	M	Ethylbenzene	125.000	110.549	11.6	65	0.00
50	M	m+p-Xylene	250.000	218.008	12.8	65	0.00
51	M	o-Xylene	125.000	106.520	14.8	65	0.00
52	M	Styrene	125.000	116.657	6.7	72	0.00
53	M	Bromoform	125.000	105.466	15.6	63	0.00
54	M	Isopropylbenzene	125.000	106.163	15.1	63	0.00
55	S	4-BROMOFLUOROBENZENE	50.000	52.682	-5.4	76	0.00
56	M	Bromobenzene	125.000	122.084	2.3	71	0.00
57	M	1,2,3-Trichloropropane	125.000	112.102	10.3	65	0.00
58	M	n-Propylbenzene	125.000	107.524	14.0	63	0.00
59	M	2-Chlorotoluene	125.000	113.848	8.9	67	0.00
60	M	1,3,5-Trimethylbenzene	125.000	104.605	16.3	63	0.00
61	M	4-Chlorotoluene	125.000	112.200	10.2	67	0.00
62	I	1,4-DICHLOROBENZENE-D4	50.000	50.000	0.0	73	0.00
63	M	1,1,2,2-Tetrachloroethane	125.000	109.648	12.3	64	0.00
64	M	tert-Butylbenzene	125.000	108.407	13.3	61	0.00
65	M	1,2,4-Trimethylbenzene	125.000	107.383	14.1	64	0.00
66	M	sec-Butylbenzene	125.000	105.428	15.7	61	0.00
67	M	1,3-Dichlorobenzene	125.000	116.921	6.5	71	0.00
68	M	p-Isopropyltoluene	125.000	102.866	17.7	61	0.00
69	M	1,4-Dichlorobenzene	125.000	115.065	7.9	67	0.00
70	M	1,2-Dichlorobenzene	125.000	112.116	10.3	68	0.00
71	M	n-Butylbenzene	125.000	101.990	18.4	60	0.00
72	M	1,2-Dibromo-3-chloropropane	125.000	97.713	21.8	60	0.00
73	M	1,2,4-Trichlorobenzene	125.000	106.761	14.6	63	0.00
74	M	Hexachlorobutadiene	125.000	98.728	21.0	54	0.00
75	M	Naphthalene	125.000	101.286	19.0	60	0.00
76	M	1,2,3-Trichlorobenzene	125.000	93.808	25.0	61	0.00

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

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_82.D
Acq On : 20 Dec 2019 8:03 am
Operator : ko
Sample : B19L026-BSD1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 20 13:02:41 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	53619	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.441	82	19196	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.762	152	21650	50.00	ng		0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.454	113	14129	50.17	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.846	65	15347	45.73	ng		0.00
37) TOLUENE-D8	7.984	98	49559	47.00	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.617	95	18336	52.68	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.119	85	23175	92.95	ng		98
3) Chloromethane	1.258	50	23814	104.55	ng		98
4) Vinyl chloride	1.344	62	32201	111.53	ng		97
5) Bromomethane	1.602	96	19066	79.13	ng		97
6) Chloroethane	1.695	64	22431	106.27	ng		98
7) Trichlorofluoromethane	1.920	101	41136	110.47	ng		97
9) 1,1-Dichloroethene	2.415	96	28315	101.60	ng		94
12) Methylene chloride	2.965	84	36173	107.35	ng		97
14) trans-1,2-Dichloroethene	3.312	96	33438	106.58	ng		96
16) 1,1-Dichloroethane	3.913	63	59574	114.99	ng		98
17) 2,2-Dichloropropane	4.778	77	32328	75.50	ng		80
18) cis-1,2-Dichloroethene	4.791	96	39235	115.87	ng		98
20) Bromochloromethane	5.106	128	21274	115.59	ng		93
21) Chloroform	5.251	83	60721	117.57	ng		99
23) 1,1,1-Trichloroethane	5.441	97	48116	102.41	ng		95
24) Carbon tetrachloride	5.647	117	40339	95.56	ng		98
25) 1,1-Dichloropropene	5.659	75	38020	99.25	ng		95
27) Benzene	5.904	78	143654	110.53	ng		99
28) 1,2-Dichloroethane	5.939	62	48934	112.02	ng		97
29) Trichloroethene	6.672	95	34594	112.79	ng		90
30) 1,2-Dichloropropane	6.913	63	32631	113.22	ng		99
31) Dibromomethane	7.039	93	26691	113.77	ng		96
33) Bromodichloromethane	7.235	83	47464	116.69	ng		100
35) cis-1,3-Dichloropropene	7.717	75	47613	105.63	ng		98
38) Toluene	8.052	92	74700	102.74	ng		98
40) trans-1,3-Dichloropropene	8.306	75	44249	105.72	ng		99
41) 1,1,2-Trichloroethane	8.482	83	29749	123.60	ng		98
42) Tetrachloroethene	8.605	164	25021	103.54	ng		96
43) 1,3-Dichloropropane	8.643	76	57587	123.53	ng		98
45) Dibromochloromethane	8.865	129	40636	113.74	ng		99
46) 1,2-Dibromoethane (EDB)	8.965	107	34975	114.61	ng		96
47) Chlorobenzene	9.470	112	92064	111.66	ng		97
48) 1,1,1,2-Tetrachloroethane	9.560	131	35875	112.98	ng		96
49) Ethylbenzene	9.595	106	46976	110.55	ng		98
50) m+p-Xylene	9.714	106	117202	218.01	ng		99
51) o-Xylene	10.103	106	55322	106.52	ng		99
52) Styrene	10.119	103	57307	116.66	ng		94
53) Bromoform	10.286	173	27280	105.47	ng	#	96
54) Isopropylbenzene	10.479	105	145565	106.16	ng		97
56) Bromobenzene	10.756	156	43951	122.08	ng		97
57) 1,2,3-Trichloropropane	10.810	75	35359	112.10	ng		98

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_82.D
Acq On : 20 Dec 2019 8:03 am
Operator : ko
Sample : B19L026-BSD1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Dec 20 13:02:41 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

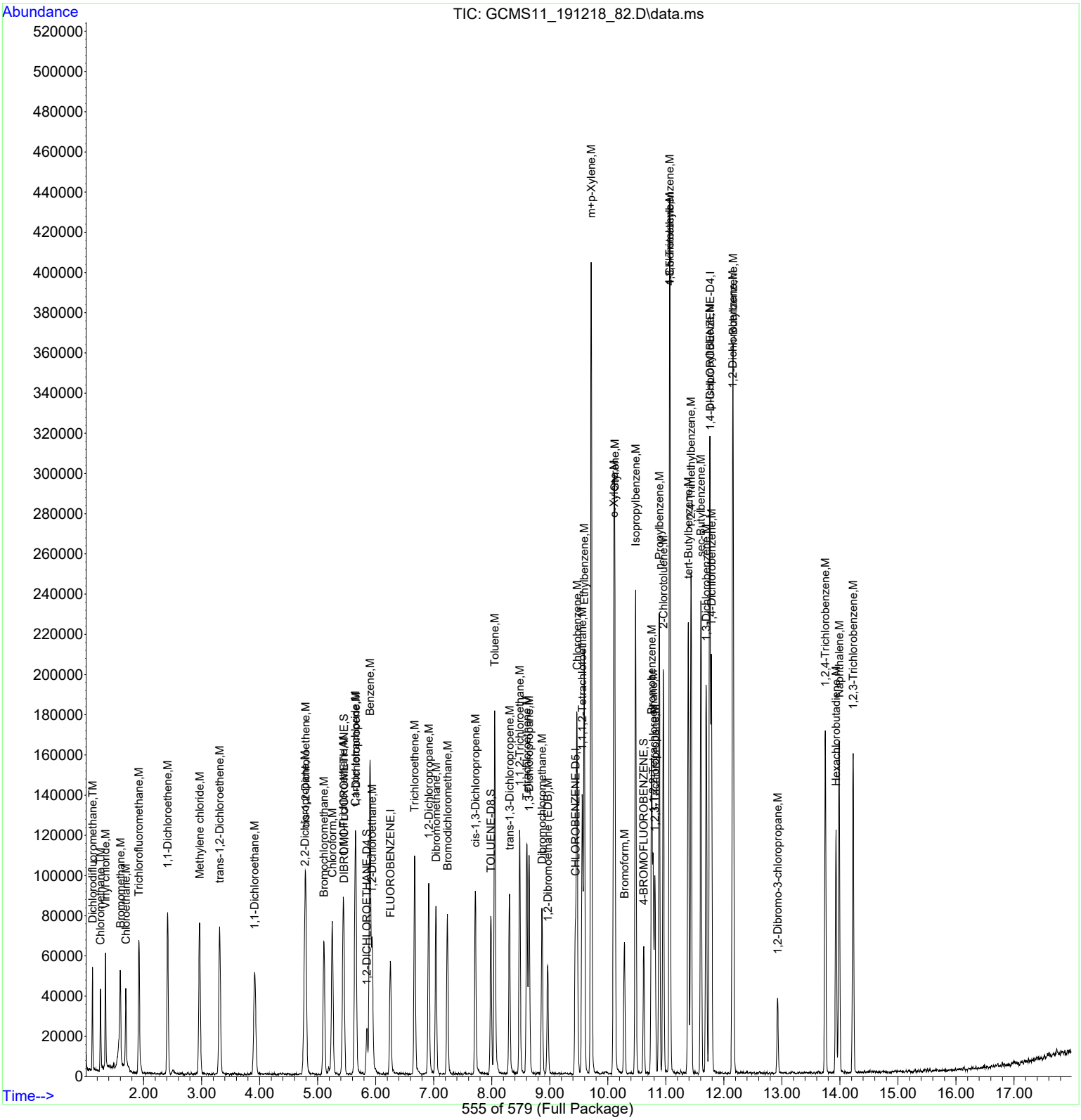
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58)	n-Propylbenzene	10.887	91	165806	107.52	ng		99
59)	2-Chlorotoluene	10.958	91	102593	113.85	ng		99
60)	1,3,5-Trimethylbenzene	11.068	105	116820	104.60	ng		98
61)	4-Chlorotoluene	11.068	91	117956	112.20	ng		100
63)	1,1,2,2-Tetrachloroethane	10.781	83	42603	109.65	ng		98
64)	tert-Butylbenzene	11.386	119	103567	108.41	ng		99
65)	1,2,4-Trimethylbenzene	11.434	105	125463	107.38	ng		99
66)	sec-Butylbenzene	11.604	105	151151	105.43	ng		98
67)	1,3-Dichlorobenzene	11.695	146	78160	116.92	ng		97
68)	p-Isopropyltoluene	11.756	119	129126	102.87	ng		99
69)	1,4-Dichlorobenzene	11.788	146	78298	115.07	ng		97
70)	1,2-Dichlorobenzene	12.151	146	81036	112.12	ng		99
71)	n-Butylbenzene	12.161	91	113836	101.99	ng		99
72)	1,2-Dibromo-3-chloropr...	12.926	155	7252	97.71	ng		95
73)	1,2,4-Trichlorobenzene	13.749	180	52045	106.76	ng		97
74)	Hexachlorobutadiene	13.932	225	22426	98.73	ng	#	1
75)	Naphthalene	13.987	128	126443	101.29	ng		99
76)	1,2,3-Trichlorobenzene	14.228	180	47336	93.81	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\191218\
Data File : GCMS11_191218_82.D
Acq On : 20 Dec 2019 8:03 am
Operator : ko
Sample : B19L026-BSD1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 45 Sample Multiplier: 1

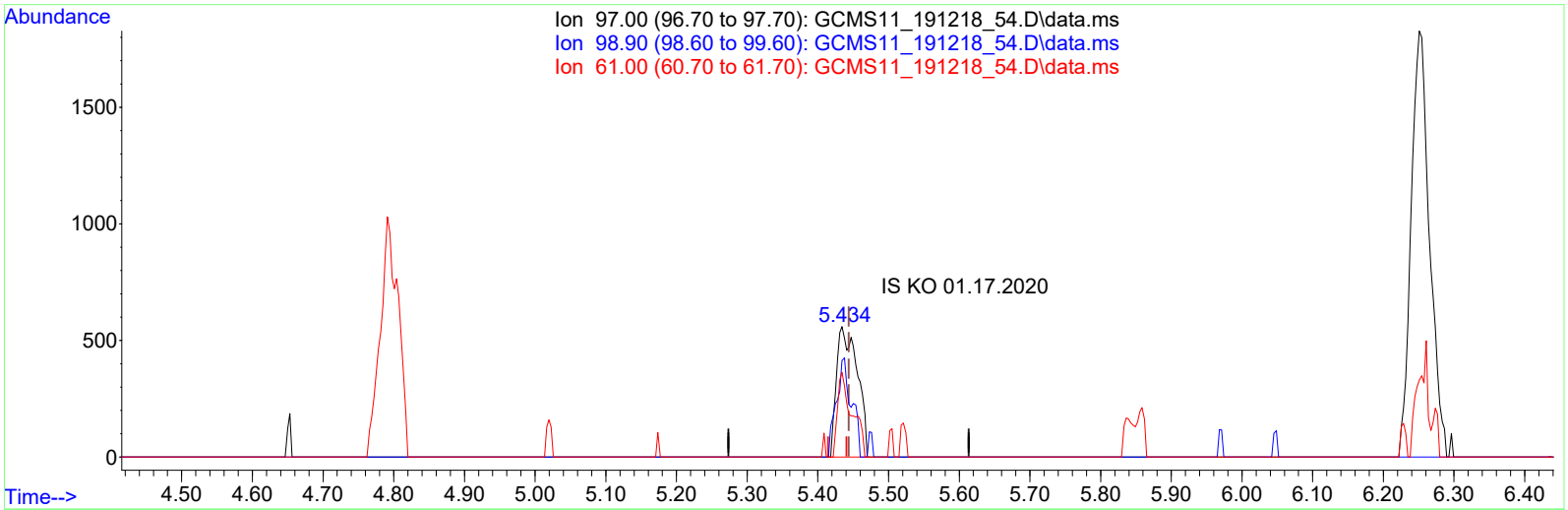
Quant Time: Dec 20 13:02:41 2019
Quant Method : C:\Users\komalley\Desktop\VOA\SE Rockford GW\GCMS11_191212_8260_FULL LIST.M
Quant Title :
QLast Update : Fri Dec 13 10:29:00 2019
Response via : Initial Calibration

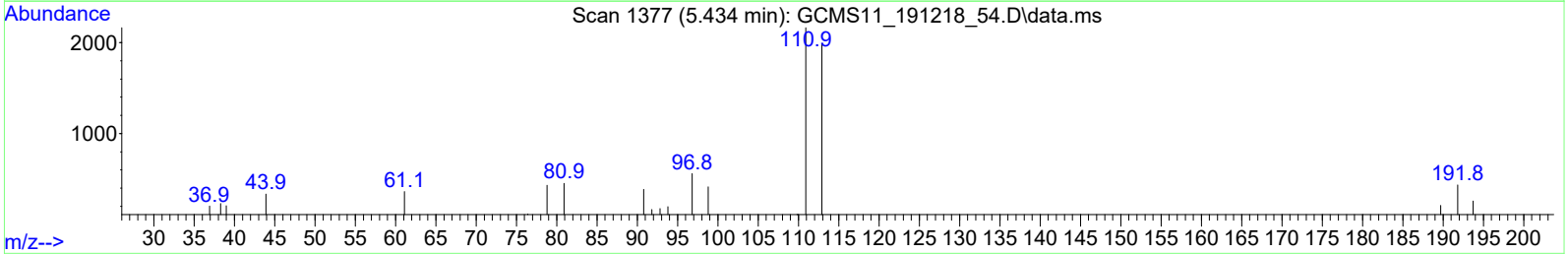


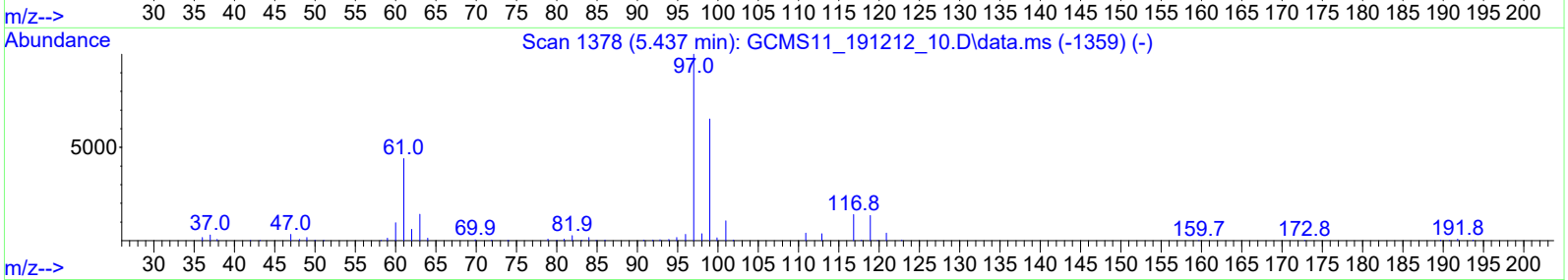
Quantitation Report (Qedit)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_54.D
Acq On : 19 Dec 2019 6:21 pm
Operator : ko
Sample : B19L026-BLK2
Misc : LIMS 19L1101
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Dec 20 09:51:54 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







TIC: GCMS11_191218_54.D\data.ms

(23) 1,1,1-Trichloroethane (M)

5.434min (-0.009) 2.53 ng m

response 1136

Ion	Exp%	Act%
97.00	100.00	100.00
98.90	62.70	55.46
61.00	43.10	45.86
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_71.D
Acq On : 20 Dec 2019 2:50 am
Operator : ko
Sample : B19L026-CCV1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Dec 20 07:25:04 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

Bromomethane exceeded %Dev criteria and has been flagged appropriately in the LIMS data report -KO 12.31.19

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	96.775	22.6	54	0.00
3	TM	Chloromethane	125.000	113.417	9.3	66	0.00
4	M	Vinyl chloride	125.000	114.374	8.5	66	0.00
5	M	Bromomethane	125.000	75.231	39.8#	45	0.00
6	M	Chloroethane	125.000	103.963	16.8	61	0.00
7	M	Trichlorofluoromethane	125.000	113.946	8.8	67	0.00
8	M	Acrolein	625.000	0.000	100.0#	0	0.00
9	M	1,1-Dichloroethene	125.000	111.565	10.7	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	113.864	8.9	75	0.00
13	M	Acrylonitrile	625.000	0.000	100.0#	0	-3.29#
14	M	trans-1,2-Dichloroethene	125.000	111.310	11.0	72	0.00
15	M	Methyl tert-butyl ether	125.000	0.000	100.0#	0	-0.02
16	M	1,1-Dichloroethane	125.000	118.180	5.5	73	0.00
17	M	2,2-Dichloropropane	125.000	89.032	28.8	55	0.00
18	M	cis-1,2-Dichloroethene	125.000	119.161	4.7	73	0.00
19	M	2-Butanone	625.000	0.000	100.0#	0	-0.06
20	M	Bromochloromethane	125.000	118.278	5.4	73	0.00
21	M	Chloroform	125.000	119.958	4.0	73	0.00
22	S	DIBROMOFLUOROMETHANE	50.000	52.811	-5.6	81	0.00
23	M	1,1,1-Trichloroethane	125.000	112.264	10.2	69	0.00
24	M	Carbon tetrachloride	125.000	103.795	17.0	66	0.00
25	M	1,1-Dichloropropene	125.000	110.914	11.3	70	0.00
26	S	1,2-DICHLOROETHANE-D4	50.000	52.064	-4.1	78	0.00
27	M	Benzene	125.000	114.697	8.2	72	0.00
28	M	1,2-Dichloroethane	125.000	113.664	9.1	72	0.00
29	M	Trichloroethene	125.000	117.219	6.2	75	0.00
30	M	1,2-Dichloropropane	125.000	111.096	11.1	71	0.00
31	M	Dibromomethane	125.000	113.342	9.3	72	0.00
32	M	1,4-Dioxane	750.000	0.000	100.0#	0	-7.20#
33	M	Bromodichloromethane	125.000	117.836	5.7	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	104.509	16.4	64	0.00
36	M	4-Methyl-2-pentanone	250.000	0.000	100.0#	0	0.04
37	S	TOLUENE-D8	50.000	48.194	3.6	75	0.00
38	M	Toluene	125.000	108.617	13.1	70	0.00
39	I	CHLOROBENZENE-D5	50.000	50.000	0.0	72	0.00
40	M	trans-1,3-Dichloropropene	125.000	108.896	12.9	64	0.00
41	M	1,1,2-Trichloroethane	125.000	123.123	1.5	74	0.00
42	M	Tetrachloroethene	125.000	113.285	9.4	65	0.00
43	M	1,3-Dichloropropane	125.000	118.724	5.0	71	0.00
44	M	2-Hexanone	250.000	0.000	100.0#	0	0.00
45	M	Dibromochloromethane	125.000	112.834	9.7	67	0.00
46	M	1,2-Dibromoethane (EDB)	125.000	115.113	7.9	69	0.00
47	M	Chlorobenzene	125.000	113.584	9.1	69	0.00
48	M	1,1,1,2-Tetrachloroethane	125.000	109.545	12.4	67	0.00

Evaluate Continuing Calibration Report

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_71.D
Acq On : 20 Dec 2019 2:50 am
Operator : ko
Sample : B19L026-CCV1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Dec 20 07:25:04 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

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)
49	M	Ethylbenzene	125.000	109.184	12.7	66	0.00
50	M	m+p-Xylene	250.000	221.508	11.4	68	0.00
51	M	o-Xylene	125.000	110.616	11.5	69	0.00
52	M	Styrene	125.000	117.876	5.7	74	0.00
53	M	Bromoform	125.000	106.960	14.4	65	0.00
54	M	Isopropylbenzene	125.000	114.108	8.7	70	0.00
55	S	4-BROMOFLUOROBENZENE	50.000	52.975	-6.0	78	0.00
56	M	Bromobenzene	125.000	121.490	2.8	72	0.00
57	M	1,2,3-Trichloropropane	125.000	115.141	7.9	68	0.00
58	M	n-Propylbenzene	125.000	116.519	6.8	70	0.00
59	M	2-Chlorotoluene	125.000	118.505	5.2	71	0.00
60	M	1,3,5-Trimethylbenzene	125.000	112.640	9.9	69	0.00
61	M	4-Chlorotoluene	125.000	113.688	9.0	69	0.00
62	I	1,4-DICHLOROBENZENE-D4	50.000	50.000	0.0	72	0.00
63	M	1,1,2,2-Tetrachloroethane	125.000	113.953	8.8	65	0.00
64	M	tert-Butylbenzene	125.000	119.480	4.4	65	0.00
65	M	1,2,4-Trimethylbenzene	125.000	117.926	5.7	69	0.00
66	M	sec-Butylbenzene	125.000	117.461	6.0	66	0.00
67	M	1,3-Dichlorobenzene	125.000	123.639	1.1	73	0.00
68	M	p-Isopropyltoluene	125.000	111.387	10.9	64	0.00
69	M	1,4-Dichlorobenzene	125.000	121.874	2.5	69	0.00
70	M	1,2-Dichlorobenzene	125.000	118.909	4.9	71	0.00
71	M	n-Butylbenzene	125.000	116.208	7.0	67	0.00
72	M	1,2-Dibromo-3-chloropropane	125.000	106.981	14.4	64	0.00
73	M	1,2,4-Trichlorobenzene	125.000	107.483	14.0	62	0.00
74	M	Hexachlorobutadiene	125.000	117.306	6.2	63	0.00
75	M	Naphthalene	125.000	101.190	19.0	58	0.00
76	M	1,2,3-Trichlorobenzene	125.000	102.497	18.0	65	0.00

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

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_71.D
Acq On : 20 Dec 2019 2:50 am
Operator : ko
Sample : B19L026-CCV1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Dec 20 07:25:04 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	6.254	96	55018	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.440	82	19626	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.762	152	21165	50.00	ng		0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.457	113	15260	52.81	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.849	65	17929	52.06	ng		0.00
37) TOLUENE-D8	7.984	98	52148	48.19	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.617	95	18851	52.98	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.126	85	24759	96.78	ng		98
3) Chloromethane	1.264	50	26508	113.42	ng		98
4) Vinyl chloride	1.351	62	33884	114.37	ng		99
5) Bromomethane	1.605	96	18599	75.23	ng		95
6) Chloroethane	1.698	64	22516	103.96	ng		94
7) Trichlorofluoromethane	1.926	101	43538	113.95	ng		96
9) 1,1-Dichloroethene	2.421	96	31902	111.57	ng		95
12) Methylene chloride	2.971	84	39371	113.86	ng		99
14) trans-1,2-Dichloroethene	3.318	96	35832	111.31	ng		98
16) 1,1-Dichloroethane	3.923	63	62824	118.18	ng		99
17) 2,2-Dichloropropane	4.778	77	39115	89.03	ng		98
18) cis-1,2-Dichloroethene	4.797	96	41401	119.16	ng		97
20) Bromochloromethane	5.113	128	22336	118.28	ng		97
21) Chloroform	5.254	83	63571	119.96	ng		99
23) 1,1,1-Trichloroethane	5.444	97	54121	112.26	ng		98
24) Carbon tetrachloride	5.646	117	44958	103.80	ng		94
25) 1,1-Dichloropropene	5.659	75	43596	110.91	ng		99
27) Benzene	5.907	78	152964	114.70	ng		99
28) 1,2-Dichloroethane	5.942	62	50946	113.66	ng		98
29) Trichloroethene	6.675	95	36891	117.22	ng		96
30) 1,2-Dichloropropane	6.916	63	32853	111.10	ng		99
31) Dibromomethane	7.039	93	27285	113.34	ng		94
33) Bromodichloromethane	7.235	83	49182	117.84	ng		98
35) cis-1,3-Dichloropropene	7.717	75	48335	104.51	ng		99
38) Toluene	8.051	92	81033	108.62	ng		99
40) trans-1,3-Dichloropropene	8.305	75	46597	108.90	ng		98
41) 1,1,2-Trichloroethane	8.482	83	30297	123.12	ng		96
42) Tetrachloroethene	8.604	164	27988	113.29	ng		95
43) 1,3-Dichloropropane	8.646	76	56586	118.72	ng		98
45) Dibromochloromethane	8.865	129	41214	112.83	ng		97
46) 1,2-Dibromoethane (EDB)	8.965	107	35914	115.11	ng		96
47) Chlorobenzene	9.469	112	95750	113.58	ng		98
48) 1,1,1,2-Tetrachloroethane	9.563	131	35564	109.55	ng		94
49) Ethylbenzene	9.595	106	47435	109.18	ng		92
50) m+p-Xylene	9.714	106	121751	221.51	ng		94
51) o-Xylene	10.103	106	58736	110.62	ng		98
52) Styrene	10.119	103	59203	117.88	ng		95
53) Bromoform	10.286	173	28286	106.96	ng	#	97
54) Isopropylbenzene	10.479	105	159964	114.11	ng		98
56) Bromobenzene	10.755	156	44717	121.49	ng		97
57) 1,2,3-Trichloropropane	10.813	75	37131	115.14	ng		98

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_71.D
Acq On : 20 Dec 2019 2:50 am
Operator : ko
Sample : B19L026-CCV1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Dec 20 07:25:04 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

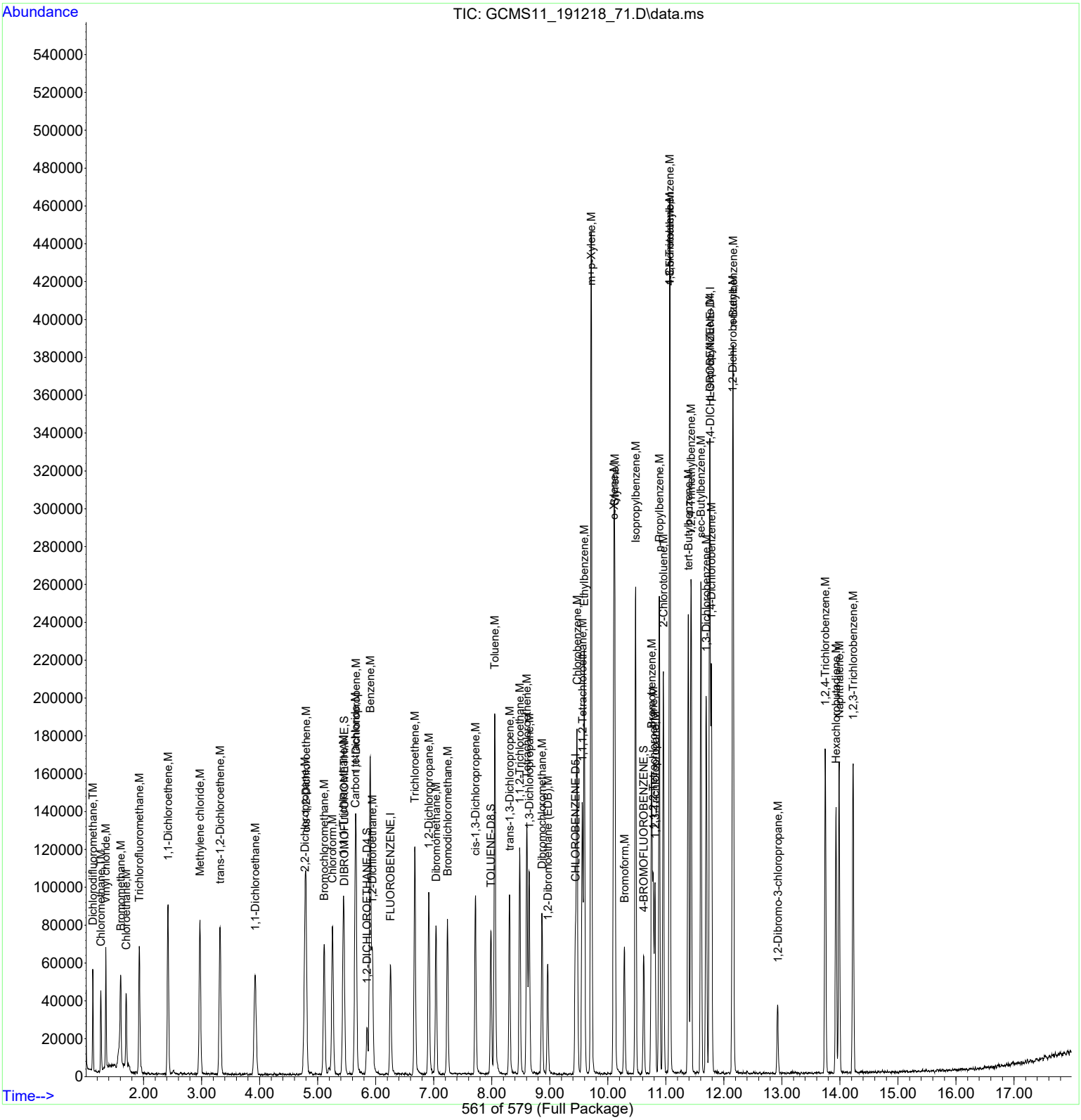
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
58) n-Propylbenzene	10.887	91	183701	116.52	ng		98
59) 2-Chlorotoluene	10.958	91	109182	118.50	ng		98
60) 1,3,5-Trimethylbenzene	11.067	105	128611	112.64	ng		98
61) 4-Chlorotoluene	11.067	91	122197	113.69	ng		98
63) 1,1,2,2-Tetrachloroethane	10.781	83	43284	113.95	ng		97
64) tert-Butylbenzene	11.386	119	111588	119.48	ng		97
65) 1,2,4-Trimethylbenzene	11.434	105	134694	117.93	ng		99
66) sec-Butylbenzene	11.604	105	164629	117.46	ng		98
67) 1,3-Dichlorobenzene	11.694	146	80799	123.64	ng		96
68) p-Isopropyltoluene	11.755	119	136690	111.39	ng		99
69) 1,4-Dichlorobenzene	11.784	146	81073	121.87	ng		99
70) 1,2-Dichlorobenzene	12.151	146	84020	118.91	ng		99
71) n-Butylbenzene	12.161	91	126800	116.21	ng		99
72) 1,2-Dibromo-3-chloropr...	12.929	155	7762	106.98	ng		83
73) 1,2,4-Trichlorobenzene	13.749	180	51223	107.48	ng		96
74) Hexachlorobutadiene	13.932	225	26049	117.31	ng	#	1
75) Naphthalene	13.987	128	123493	101.19	ng		99
76) 1,2,3-Trichlorobenzene	14.228	180	50443	102.50	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\191218\
Data File : GCMS11_191218_71.D
Acq On : 20 Dec 2019 2:50 am
Operator : ko
Sample : B19L026-CCV1
Misc : LIMS 19L1101, 19L1201, 19L1812
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Dec 20 07:25:04 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



Quantitation Report (Not Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_18.D
Acq On : 12 Dec 2019 8:50 pm
Operator : ko
Sample : 1912009-02
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 13 Sample Multiplier: 1

Not reported

-KO 12.18.19

Quant Time: Dec 13 10:40:55 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	66627	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	24879	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	25887	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.46	113	17559	50.18 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.86	65	19769	47.40 ng	0.00
37) TOLUENE-D8	7.99	98	68808	52.51 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	22791	50.52 ng	0.00
Target Compounds					Qvalue
5) Bromomethane	1.61	96	924	3.09 ng	87
~~11) Carbon disulfide~~	~~2.61~~	~~76~~	~~78~~	~~64.30 ng~~ #	1
16) 1,1-Dichloroethane	3.92	63	2769	4.30 ng	96
18) cis-1,2-Dichloroethene	4.80	96	9897	23.52 ng	90
23) 1,1,1-Trichloroethane	5.45	97	7779	13.32 ng	94

Not present

Not calibrated for

-KO 01.17.2020

KO 12.18.19

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

GCMS11_1912..._FULL LIST.M Fri Dec 13 10:40:56 2019

next dilution: 5x

low 3.09 -> 30.9

high 23.52 -> 235.2

-KO 12.13.19

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_79.D
Acq On : 14 Dec 2019 2:59 am
Operator : ko
Sample : 1912009-02RE1
Misc : LIMS 19L1101, 5X DILUTION
ALS Vial : 62 Sample Multiplier: 1

All analytes reported in this batched sample -KO 12.18.19

Quant Time: Dec 16 14:14:09 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	49981	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	19057	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	19008	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.45	113	13735	52.32 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	15693	50.16 ng	0.00
37) TOLUENE-D8	7.98	98	50962	51.84 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	17094	49.47 ng	0.00
Target Compounds					Qvalue
9) 1,1-Dichloroethene	2.41	96	2668	10.27 ng	85
14) trans-1,2-Dichloroethene	3.32	96	1102m	3.77 ng	
16) 1,1-Dichloroethane	3.92	63	22385	46.35 ng	99
18) cis-1,2-Dichloroethene	4.79	96	81322	257.65 ng	92
23) 1,1,1-Trichloroethane	5.44	97	56027	127.93 ng	97
29) Trichloroethene	6.68	95	1123	3.93 ng	96
42) Tetrachloroethene	8.60	164	3376	14.07 ng	92
65) 1,2,4-Trimethylbenzene	11.44	105	1057	1.03 ng	81
73) 1,2,4-Trichlorobenzene	13.74	180	454	1.06 ng #	55

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

GCMS11_1912..._FULL LIST.M Mon Dec 16 14:15:12 2019

below cal
Analytes 65, 73 likely below w/ no dil.
-KO 12.16.19

reported in this batch:
TCA
TCE
1,1,1-TCA ✓
cis-1,2-dichloroethene ✓

next dilution: 1x
(12.18.25)

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_59.D
Acq On : 19 Dec 2019 8:44 pm
Operator : ko
Sample : 1912009-02RE2
Misc : LIMS 19L1101
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Dec 20 07:24:14 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	53823	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.440	82	20038	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.762	152	18028	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.460	113	14078	49.80 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.852	65	16336	48.49 ng	0.00
37) TOLUENE-D8	7.987	98	50480	47.69 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.620	95	15087	41.53 ng	0.00
Target Compounds					Qvalue
7) Trichlorofluoromethane	1.929	101	883	2.36 ng	# 74
9) 1,1-Dichloroethene	2.428	96	10423	37.26 ng	98
14) trans-1,2-Dichloroethene	3.322	96	5188	16.47 ng	94
16) 1,1-Dichloroethane	3.923	63	102942	197.95 ng	99
18) cis-1,2-Dichloroethene	4.798	96	398228	1171.64 ng	93
21) Chloroform	5.261	83	1717	3.31 ng	97
23) 1,1,1-Trichloroethane	5.447	97	264372	560.57 ng	98
28) 1,2-Dichloroethane	5.955	62	1554	3.54 ng	# 89
29) Trichloroethene	6.675	95	5525	17.95 ng	89
42) Tetrachloroethene	8.608	164	14806	58.70 ng	97

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

GCMS11_1912..._FULL LIST.M Fri Dec 20 10:11:50 2019

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_19.D
Acq On : 12 Dec 2019 9:21 pm
Operator : ko
Sample : 1912009-03
Misc : LIMS 19L1101, 50x screening dilution (Atomx)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 13 10:43:13 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	6.25	96	67881	50.00 ng		0.00
39) CHLOROBENZENE-D5	9.44	82	25140	50.00 ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	26290	50.00 ng		# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.46	113	16881	47.35 ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	19487	45.86 ng		0.00
37) TOLUENE-D8	7.98	98	68496	51.31 ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	21971	48.20 ng		0.00
Target Compounds						Qvalue
5) Bromomethane	1.61	96	761	2.49 ng not present	#	76
9) 1,1-Dichloroethene	2.42	96	565	1.60 ng	#	62
12) Methylene chloride	2.97	84	575	1.35 ng	#	75
16) 1,1-Dichloroethane	3.92	63	2608	3.98 ng		76
18) cis-1,2-Dichloroethene	4.80	96	10119	23.61 ng over cal in		91
23) 1,1,1-Trichloroethane	5.44	97	7049	11.85 ng	2x	93
42) Tetrachloroethene	8.60	164	599	1.89 ng	#	70

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

GCMS11_1912..._FULL LIST.M Fri Dec 13 10:44:15 2019

Next dilution : 2x

cis-1,2-dichloroethene over calibration in 1912009-03RE1 - reported in this samples - all others reported in the rebatch

- FO 12.18.19

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_86.D
Acq On : 14 Dec 2019 6:23 am
Operator : ko
Sample : 1912009-03RE1
Misc : LIMS 19L1101, 2X DILUTION
ALS Vial : 64 Sample Multiplier: 1

Quant Time: Dec 16 14:25:16 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	49746	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	19608	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	18441	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.46	113	13059	49.98 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	16138	51.83 ng	0.00
37) TOLUENE-D8	7.98	98	49593	50.69 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	16105	45.30 ng	0.00
Target Compounds					Qvalue
7) Trichlorofluoromethane	1.93	101	529	1.53 ng	# 52
9) 1,1-Dichloroethene	2.42	96	6221	24.06 ng	87
14) trans-1,2-Dichloroethene	3.32	96	2552	8.77 ng	94
16) 1,1-Dichloroethane	3.92	63	55637	115.75 ng	94
18) cis-1,2-Dichloroethene	4.80	96	214125	681.61 ng	92
21) Chloroform	5.26	83	917	1.91 ng	78
23) 1,1,1-Trichloroethane	5.45	97	141236	324.02 ng	97
28) 1,2-Dichloroethane	5.94	62	667	1.65 ng	# 88
29) Trichloroethene	6.68	95	2739	9.63 ng	93
41) 1,1,2-Trichloroethane	8.49	83	251	1.02 ng	# 72
42) Tetrachloroethene	8.60	164	7133	28.90 ng	87
65) 1,2,4-Trimethylbenzene	11.44	105	1342	1.35 ng	88

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

GCMS11_1912..._FULL LIST.M Mon Dec 16 14:27:51 2019

below calibration

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_20.D
Acq On : 12 Dec 2019 9:52 pm
Operator : ko
Sample : 1912009-04
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 15 Sample Multiplier: 1

All analytes reported in 1912009-04RE1

Quant Time: Dec 13 10:45:58 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	63666	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	24272	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	24875	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.46	113	15822	47.32 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	19392	48.66 ng	0.00
37) TOLUENE-D8	7.99	98	62148	49.63 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	20445	46.46 ng	0.00
Target Compounds					Qvalue
12) Methylene chloride	2.97	84	458	1.14 ng	# 73

1x dilution next

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

KO 12.13.19

GCMS11_1912..._FULL LIST.M Fri Dec 13 10:46:29 2019

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_21.D
Acq On : 12 Dec 2019 10:23 pm
Operator : ko
Sample : 1912009-05
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 13 10:49:25 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	6.25	96	61792	50.00 ng		0.00
39) CHLOROBENZENE-D5	9.44	82	23453	50.00 ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	24596	50.00 ng		# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.45	113	16247	50.06 ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.84	65	19028	49.20 ng		0.00
37) TOLUENE-D8	7.98	98	62459	51.40 ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	21493	50.54 ng		0.00
Target Compounds						Qvalue
5) Bromomethane	1.60	96	709	2.55 ng		91
6) Chloroethane	1.69	64	12327	50.68 ng		97
12) Methylene chloride	2.96	84	572	1.47 ng	#	61
16) 1,1-Dichloroethane	3.91	63	8197	13.73 ng		94
23) 1,1,1-Trichloroethane	5.43	97	3412	6.30 ng		82
38) Toluene	8.05	92	3185	3.80 ng		81
49) Ethylbenzene	9.59	106	2375	4.57 ng		94
50) m+p-Xylene	9.71	106	7660	11.66 ng		82
51) o-Xylene	10.10	106	5045	7.95 ng		99
52) Styrene	10.11	103	788	1.31 ng	#	27
54) Isopropylbenzene	10.48	105	2296	1.37 ng		80
58) n-Propylbenzene	10.89	91	8198	4.35 ng		90
59) 2-Chlorotoluene	10.98	91	3431	3.12 ng	#	45
60) 1,3,5-Trimethylbenzene	11.07	105	14491	10.62 ng		94
61) 4-Chlorotoluene	11.07	91	1955	1.52 ng	#	49
64) tert-Butylbenzene	11.44	119	8361	7.70 ng	#	68
65) 1,2,4-Trimethylbenzene	11.44	105	60791	45.80 ng		100
68) p-Isopropyltoluene	11.71	119	1871m	1.31 ng		
71) n-Butylbenzene	12.16	91	1779	1.40 ng	#	40
75) Naphthalene	13.99	128	3369	2.38 ng		92

not present
not present
not present
not present
6) over in 5x

KO 01.15.2020

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

GCMS11_1912..._FULL LIST.M Fri Dec 13 10:50:03 2019

Next dilution: 5x
high ~~low~~ 50.68 → 506.8
low 1.31 → 13.1
place last as chloroethane likely to be above cal
-KO 12.13.19

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_82.D
Acq On : 14 Dec 2019 4:27 am
Operator : ko
Sample : 1912009-05RE1
Misc : LIMS 19L1101, 5X DILUTION
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Dec 16 14:23:14 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	49097	50.00 ng		0.00
39) CHLOROBENZENE-D5	9.44	82	18478	50.00 ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	20503	50.00 ng		# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.45	113	12963	50.27 ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	14836	48.28 ng		0.00
37) TOLUENE-D8	7.98	98	47025	48.70 ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	16485	49.20 ng		0.00
Target Compounds						Qvalue
6) Chloroethane	1.69	64	117659	608.78 ng		99
14) trans-1,2-Dichloroethene	3.30	96	361	1.26 ng	#	62
16) 1,1-Dichloroethane	3.92	63	76981	162.27 ng		99
18) cis-1,2-Dichloroethene	4.78	96	835m	2.69 ng		
23) 1,1,1-Trichloroethane	5.44	97	30486	70.86 ng		97
38) Toluene	8.05	92	22352	33.57 ng		99
49) Ethylbenzene	9.59	106	17661	43.18 ng		91
50) m+p-Xylene	9.71	106	68508	132.38 ng		99
51) o-Xylene	10.10	106	45102	90.22 ng		98
52) Styrene	10.11	103	6354	13.44 ng	#	26
54) Isopropylbenzene	10.48	105	19447	14.73 ng		96
58) n-Propylbenzene	10.89	91	63126	42.53 ng		98
60) 1,3,5-Trimethylbenzene	11.07	105	117039	108.87 ng		99
64) tert-Butylbenzene	11.44	119	68878	76.13 ng	#	68
65) 1,2,4-Trimethylbenzene	11.44	105	548939	496.12 ng		99
66) sec-Butylbenzene	11.60	105	11724	8.64 ng	#	82
68) p-Isopropyltoluene	11.71	119	17720m	14.91 ng		
70) 1,2-Dichlorobenzene	12.15	146	5125	7.49 ng		94
71) n-Butylbenzene	12.16	91	11852	11.21 ng	#	27
75) Naphthalene	13.99	128	36861	31.18 ng		95

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

GCMS11_1912..._FULL LIST.M Mon Dec 16 14:24:17 2019

below calibration

[6] chloroethane over cal - reported in 1912009-05

next dil: 1x (3043.90)

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_22.D
Acq On : 12 Dec 2019 10:53 pm
Operator : ko
Sample : 1912009-06
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 17 Sample Multiplier: 1

Not reported

Quant Time: Dec 13 10:50:41 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	66860	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	25836	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	26497	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.45	113	17192	48.96 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	19768	47.24 ng	0.00
37) TOLUENE-D8	7.98	98	65575	49.87 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	22435	47.89 ng	0.00
Target Compounds					Qvalue
3) Chloromethane	1.25	50	564	1.99 ng	# 66
12) Methylene chloride	2.96	84	670	1.59 ng	# 55
65) 1,2,4-Trimethylbenzene	11.43	105	2443	1.71 ng	93

not present

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

contamination

No dilution next
KO
12.13.19

GCMS11_1912..._FULL LIST.M Fri Dec 13 10:51:45 2019

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_75.D
Acq On : 14 Dec 2019 1:03 am
Operator : ko
Sample : 1912009-06RE1
Misc : LIMS 19L1101
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Dec 16 14:07:58 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	57446	50.00 ng		0.00
39) CHLOROBENZENE-D5	9.44	82	21200	50.00 ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	20571	50.00 ng		# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.46	113	14279	47.33 ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	17006	47.30 ng		0.00
37) TOLUENE-D8	7.98	98	55393	49.03 ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	18172	47.28 ng		0.00
Target Compounds						Qvalue
3) Chloromethane	1.26	50	432	1.77 ng	#	74
4) Vinyl chloride	1.35	62	908	2.94 ng		82
5) Bromomethane	1.61	96	267	1.03 ng	#	64
6) Chloroethane	1.70	64	1316	5.82 ng		81
9) 1,1-Dichloroethene	2.42	96	554	1.86 ng	#	53
16) 1,1-Dichloroethane	3.92	63	7941	14.31 ng		92
18) cis-1,2-Dichloroethene	4.80	96	11948	32.94 ng		89
21) Chloroform	5.26	83	705	1.27 ng		94
23) 1,1,1-Trichloroethane	5.44	97	582	1.16 ng	#	65
28) 1,2-Dichloroethane	5.95	62	1189	2.54 ng		85
29) Trichloroethene	6.68	95	896	2.73 ng		90
42) Tetrachloroethene	8.60	164	313	1.17 ng		88
65) 1,2,4-Trimethylbenzene	11.43	105	1258	1.13 ng		96

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

GCMS11_1912..._FULL LIST.M Wed Dec 18 12:06:50 2019

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_23.D
Acq On : 12 Dec 2019 11:24 pm
Operator : ko
Sample : 1912009-07
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 18 Sample Multiplier: 1

Not reported

Quant Time: Dec 13 10:54:27 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	6.25	96	64370	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	24224	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	24676	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.45	113	16947	50.13 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	19765	49.06 ng	0.00
37) TOLUENE-D8	7.98	98	63793	50.39 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	20875	47.53 ng	0.00
Target Compounds					Qvalue
12) Methylene chloride	2.96	84	408	1.01 ng	77

No dilution next

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

GCMS11_1912..._FULL LIST.M Fri Dec 13 10:55:49 2019

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_24.D
Acq On : 12 Dec 2019 11:55 pm
Operator : ko
Sample : 1912009-08
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 13 10:56:11 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

Reported in this sample. All other analytes reported in re-batch - KO 12.18.19

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
Internal Standards						
1) FLUOROBENZENE	6.25	96	64316	50.00 ng		0.00
39) CHLOROBENZENE-D5	9.44	82	23901	50.00 ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	26402	50.00 ng	#	0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.45	113	16849	49.88 ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	19179	47.64 ng		0.00
37) TOLUENE-D8	7.98	98	63983	50.58 ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	21094	48.68 ng		0.00
Target Compounds						Qvalue
4) Vinyl chloride	1.35	62	20246	58.46 ng		99
5) Bromomethane	1.61	96	477	1.65 ng not present	#	70
6) Chloroethane	1.70	64	5789	22.87 ng		92
9) 1,1-Dichloroethene	2.42	96	1724	5.16 ng	#	79
12) Methylene chloride	2.97	84	466	1.15 ng		95
14) trans-1,2-Dichloroethene	3.32	96	1838	4.88 ng	#	80
16) 1,1-Dichloroethane	3.92	63	87993	141.60 ng over cal		99
18) cis-1,2-Dichloroethene	4.80	96	103047	253.71 ng in 10x		91
23) 1,1,1-Trichloroethane	5.44	97	89989	159.68 ng		98
29) Trichloroethene	6.68	95	1053	2.86 ng	#	51
38) Toluene	8.06	92	3890	4.46 ng		85
42) Tetrachloroethene	8.61	164	630	2.09 ng	#	65
49) Ethylbenzene	9.59	106	3835	7.25 ng		86
50) m+p-Xylene	9.71	106	10135	15.14 ng		96
51) o-Xylene	10.10	106	11669	18.05 ng		97
52) Styrene	10.10	103	1607	2.63 ng	#	21
54) Isopropylbenzene	10.48	105	2933	1.72 ng		97
58) n-Propylbenzene	10.89	91	8554	4.46 ng		99
59) 2-Chlorotoluene	10.98	91	3933	3.51 ng	#	45
60) 1,3,5-Trimethylbenzene	11.07	105	11234	8.08 ng		95
65) 1,2,4-Trimethylbenzene	11.44	105	48214	33.84 ng		98
66) sec-Butylbenzene	11.60	105	2022	1.16 ng	#	78
70) 1,2-Dichlorobenzene	12.15	146	1560	1.77 ng		80
71) n-Butylbenzene	12.16	91	1977	1.45 ng	#	70
75) Naphthalene	13.99	128	3480	2.29 ng		93

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

GCMS11_1912..._FULL LIST.M Fri Dec 13 11:00:55 2019

-KO 01.17.2020

-KO 01.17.2020

10X required to not destroy machine

Next dilution ~~2x~~ → Analytes from 18.05 ng to 235.7 ng likely to go above cal → report in this batch

· insert last in line-up – multiple IBs after

KO 12.13.19

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_90.D
Acq On : 14 Dec 2019 8:20 am
Operator : ko
Sample : 1912009-08RE1
Misc : LIMS 19L1101, 10X DILUTION
ALS Vial : 65 Sample Multiplier: 1

Not reported
-KO 12.30.19

Quant Time: Dec 16 14:31:19 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	52180	50.00 ng		0.00
39) CHLOROBENZENE-D5	9.44	82	21079	50.00 ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.77	152	21261	50.00 ng		# 0.00
System Monitoring Compounds						
22) DIBROMOFLUOROMETHANE	5.46	113	15343	55.99 ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	15734	48.17 ng		0.00
37) TOLUENE-D8	7.99	98	53019	51.66 ng		0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	18457	48.29 ng		0.00
Target Compounds						Qvalue
4) Vinyl chloride	1.35	62	91921	327.15 ng		99
6) Chloroethane	1.70	64	26632	129.66 ng		97
9) 1,1-Dichloroethene	2.42	96	6491	23.93 ng		91
12) Methylene chloride	2.97	84	403	1.23 ng		85
14) trans-1,2-Dichloroethene	3.32	96	6622	21.69 ng		94
16) 1,1-Dichloroethane	3.92	63	426741	846.41 ng		99
18) cis-1,2-Dichloroethene	4.80	96	473760	1437.75 ng		90
23) 1,1,1-Trichloroethane	5.44	97	404871	885.51 ng		98
27) Benzene	5.91	78	2693	2.13 ng	#	71
28) 1,2-Dichloroethane	5.94	62	1133	2.67 ng	#	79
29) Trichloroethene	6.67	95	3105	10.40 ng		90
38) Toluene	8.05	92	14979	21.17 ng		97
41) 1,1,2-Trichloroethane	8.49	83	593	2.24 ng	#	79
42) Tetrachloroethene	8.61	164	1770	6.67 ng		96
49) Ethylbenzene	9.59	106	14857	31.84 ng		94
50) m+p-Xylene	9.71	106	36410	61.68 ng		100
51) o-Xylene	10.10	106	50580	88.69 ng		99
52) Styrene	10.10	103	6850	12.70 ng	#	25
54) Isopropylbenzene	10.48	105	10195	6.77 ng		97
58) n-Propylbenzene	10.89	91	28485	16.82 ng		99
60) 1,3,5-Trimethylbenzene	11.07	105	36908	30.10 ng		97
64) tert-Butylbenzene	11.44	119	22361	23.83 ng	#	67
65) 1,2,4-Trimethylbenzene	11.43	105	169371	147.62 ng		99
66) sec-Butylbenzene	11.61	105	5786	4.11 ng	#	81
68) p-Isopropyltoluene	11.71	119	7224m	5.86 ng		
70) 1,2-Dichlorobenzene	12.15	146	5398	7.60 ng		87
71) n-Butylbenzene	12.16	91	6979	6.37 ng	#	43
75) Naphthalene	13.99	128	12853	10.48 ng		91

KO 01.15.2020

below calibration -KO 12.16.19

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

GCMS11_1912..._FULL LIST.M Mon Dec 16 14:37:06 2019

Quantitation Report (QT Reviewed)

Data Path : C:\Users\komalley\Desktop\VOA\SE Rockford GW\Data\191218\
Data File : GCMS11_191218_78.D
Acq On : 20 Dec 2019 6:10 am
Operator : ko
Sample : 1912009-08RE2
Misc : 5X ATOMX DILUTION, LIMS 19L1101
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Dec 20 11:00:40 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	40336	50.00	ng		0.00
39) CHLOROBENZENE-D5	9.437	82	15361	50.00	ng		0.00
62) 1,4-DICHLOROBENZENE-D4	11.765	152	15818	50.00	ng	#	0.00
System Monitoring Compounds							
22) DIBROMOFLUOROMETHANE	5.457	113	12355	58.32	ng		0.00
26) 1,2-DICHLOROETHANE-D4	5.852	65	13044	51.67	ng		0.00
37) TOLUENE-D8	7.987	98	39003	49.17	ng		0.00
55) 4-BROMOFLUOROBENZENE	10.617	95	13586	48.78	ng		0.00
Target Compounds							Qvalue
4) Vinyl chloride	1.354	62	160012	736.71	ng		100
6) Chloroethane	1.708	64	45473	286.39	ng		97
9) 1,1-Dichloroethene	2.428	96	10102	48.19	ng		100
12) Methylene chloride	2.981	84	598	2.36	ng		79
14) trans-1,2-Dichloroethene	3.322	96	10842	45.94	ng		99
16) 1,1-Dichloroethane	3.926	63	733888	1883.04	ng		99
18) cis-1,2-Dichloroethene	4.798	96	805496	3162.27	ng		92
21) Chloroform	5.270	83	878m	2.26	ng		
23) 1,1,1-Trichloroethane	5.447	97	669435	1894.07	ng		97
27) Benzene	5.904	78	4874	4.98	ng		87
28) 1,2-Dichloroethane	5.949	62	2240	6.82	ng		90
29) Trichloroethene	6.672	95	4342	18.82	ng		90
38) Toluene	8.052	92	24332	44.49	ng		94
41) 1,1,2-Trichloroethane	8.479	83	1212	6.29	ng		95
42) Tetrachloroethene	8.608	164	2452	12.68	ng		92
49) Ethylbenzene	9.592	106	23599	69.40	ng		100
50) m+p-Xylene	9.714	106	57299	133.19	ng		98
51) o-Xylene	10.103	106	81882	197.02	ng		99
52) Styrene	10.103	103	11347	28.87	ng	#	27
54) Isopropylbenzene	10.479	105	16180	14.75	ng		96
58) n-Propylbenzene	10.887	91	44787	36.30	ng		97
60) 1,3,5-Trimethylbenzene	11.068	105	57576	64.43	ng		99
63) 1,1,2,2-Tetrachloroethane	10.785	83	568	2.00	ng	#	83
65) 1,2,4-Trimethylbenzene	11.434	105	272532	319.26	ng		99
66) sec-Butylbenzene	11.604	105	9409	8.98	ng	#	77
68) p-Isopropyltoluene	11.707	119	10180m	11.10	ng		
70) 1,2-Dichlorobenzene	12.148	146	10782	20.42	ng		93
71) n-Butylbenzene	12.158	91	10771	13.21	ng	#	40
75) Naphthalene	13.987	128	19025	20.86	ng		96

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

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_25.D
Acq On : 13 Dec 2019 12:26 am
Operator : ko
Sample : 1912009-09
Misc : LIMS 19L1101, 50x screening dilution
ALS Vial : 20 Sample Multiplier: 1

NOt reported
All analytes reported in re-watched sample
-KO 12.18.19

Quant Time: Dec 13 10:59:34 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	63968	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	24494	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	25448	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.46	113	17829	53.07 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	18888	47.17 ng	0.00
37) TOLUENE-D8	7.98	98	66250	52.66 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	21110	47.53 ng	0.00
Target Compounds					Qvalue
3) Chloromethane	1.27	50	564	2.08 ng	97
12) Methylene chloride	2.97	84	416	1.03 ng	# 66
16) 1,1-Dichloroethane	3.93	63	1230m	1.99 ng	
23) 1,1,1-Trichloroethane	5.45	97	1247m	2.22 ng	
65) 1,2,4-Trimethylbenzene	11.43	105	2195	1.60 ng	92

under cal
1x dilution next

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

GCMS11_1912..._FULL LIST.M Fri Dec 13 11:00:09 2019

Quantitation Report (QT Reviewed)

Data Path : D:\Kelsey\191212\
Data File : GCMS11_191212_26.D
Acq On : 13 Dec 2019 12:57 am
Operator : ko
Sample : 1912009-10
Misc : ~~LIMS 19L1101~~, 50x screening dilution
ALS Vial : 21 Sample Multiplier: 1

Not reported

All analytes reported in re-batched samples -KO 12.18.19

Quant Time: Dec 13 11:02:22 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	61195	50.00 ng	0.00
39) CHLOROBENZENE-D5	9.44	82	24126	50.00 ng	0.00
62) 1,4-DICHLOROBENZENE-D4	11.76	152	24753	50.00 ng	# 0.00
System Monitoring Compounds					
22) DIBROMOFLUOROMETHANE	5.45	113	16025	49.86 ng	0.00
26) 1,2-DICHLOROETHANE-D4	5.85	65	19485	50.87 ng	0.00
37) TOLUENE-D8	7.98	98	62052	51.56 ng	0.00
55) 4-BROMOFLUOROBENZENE	10.62	95	20915	47.81 ng	0.00
Target Compounds					Qvalue
12) Methylene chloride	2.96	84	508	1.32 ng	# 75

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

GCMS11_1912..._FULL LIST.M Fri Dec 13 11:02:56 2019

Under cal
1x dilution
Not
KO 12.13.19

Pen & Ink Changes

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